

Supplementary Table 1: Antibody information.

	Name	Catalog/Clone number	Company name	Dilution/amount used	
For flow cytometry	BrdU	556028	BD Biosciences	20 µl/10 ⁶ cells	
	SSEA-1	560142	BD Biosciences	20 µl/10 ⁶ cells	
	Oct4	560794	BD Biosciences	20 µl/10 ⁶ cells	
	Nanog	IC2729G	R&D	5 µl/10 ⁶ cells	
			LifeSpan		
	Hand1	LS-C422271	BioSciences	1:50	
	Cdx2	MA5-14494	Thermo Fisher	1:10	
	Eomes	MAB8889	R&D	1:1000	
	IgG control	sc-2027	Santa Cruz		
	Alexa Fluor [®] 488-conjugated goat anti-rabbit IgG polyclonal antibody	A-11034	Invitrogen	1:400	
For immunofluorescence staining	anti-Cdx2 antibody	AB4123	Millipore	1:100	
	anti-GFP antibody	A-1122	Invitrogen	1:1000	
	Alexa Fluor [®] 488-conjugated goat anti-rabbit IgG polyclonal antibody	A-11034	Invitrogen	1:400	
For immunohistochemistry and histological staining			Stemcell		
	Primary antibodies	GFAP	60048	Technologies	1:100
		anti-nestin	MAB353	Millipore	1:100
		anti-beta III tubulin	MMS-435P	BioLegend	1:2000
		anti-NeuN	MAB377	Chemicon	1:500

			a gift from Dr. C. Stiles, Dana-Farber Cancer Institute, Boston, MA	1:10000
	anti-Olig2			
	anti-GATA6	AF1700	R&D Systems	1:40
Secondary antibodies				
	HRP Envision anti-mouse	K4001	Dako	1:1
	HRP Envision anti-rabbit	K4003	Dako	1:1
	HRP Horse Anti-Goat IgG Antibody	PI-9500	Vector Labs	1:200
For western blotting				
	cyclin D1	sc-450	Santa Cruz	1:500
	cyclin D2	MS-213-P0	Thermo Scientific	1:500
	cyclin D2	K0064-3	MBL Life Science	1:500
	cyclin D3	C-16	Santa Cruz	1:500
	cyclin E1	sc-481	Santa Cruz	1:500
	cyclin E1	BS1085	Bioworld Technology	1:1000
	cyclin E2	ab32103	Abcam	1:1000
	cyclin A2	C4710	Sigma	1:1000
	cyclin B1	C8831	Sigma	1:1000
	cyclin C	A301-989A	Bethyl Laboratories	1:1000
	CDK1	ab71939	Abcam	1:1000
	CDK2	sc-6248	Santa Cruz	1:500
	CDK4	sc-260	Santa Cruz	1:500
	CDK6	MS-398-P0	Thermo Scientific	1:1000

GAPDH	5174S	Cell Signaling Technology	1:5000
Nanog	AB5731	Millipore	1:2000
Sox2	MA1-014	Invitrogen	1:2000
Oct4	sc-5279	Santa Cruz	1:2000
phospho-S/T-P MPM2	05-368MG	Millipore	1:1000
Pin1	3722	Cell Signaling Technology	1:1000
Flag	F1804	Sigma	1:10000
tubulin	T-5168	Sigma	1:5000
haemagglutinin	MMS-101P	Covance	1:4000
GFP	632380	Invitrogen	1:5000
thiophosphate ester	ab92570	Abcam	1:1000
ubiquitin	z0458	Dako	1:2500

For immunoprecipitation

Nanog	sc-30328 AC	Santa Cruz	30 µl/2 mg protein
Sox2	sc-17320 AC	Santa Cruz	30 µl/2 mg protein
Oct4	sc-5279 AC	Santa Cruz	30 µl/2 mg protein

Supplementary Table 2: Sequences of PCR Primers

Gene/Primer name	Primer sequence
Genotyping primers	
D1-2-1	CACGTTGACGGTCAGGGTC
D1-2-2	CATGGATGGCTGGATCTCCTG
D1-3-1	GACCTTCTCGAATCAGCCTG
D1-3-2	GACTGTACTGTATGTAGCTCGTG
D1-5-1	CTAGTCTCTGGCAGCTCTCAC
D1-5-2	CTCCCTACTCTCAGGGTGATG
D2-1-1	CTCTCCCAAATCTCCATTGAG
D2-1-2	GATCTCTGCGTGTTGGAGGTAG
D2-2-1	GACCCTACCCCACTCTTGATTG
D2-2-2	CATGAATTTCCATGAGGCACTG
D2-5-1	CTGAGTGGGCAGGCAAGAAC
D2-5-2	GCTTACTCAGACTTGCCTAGAC
D3-1-F5	GATGCTGGCATACTGGATG
D3-1-4	GAACGCAGGCAGCTGCTTAG
D3-2-1	CATCCTCCTCGGTTATTGATAC
D3-2-B5	CAGCCTGGTCCGTATAGATGC
D3-5-1	CAGACTTCCCAGTGCACAG
D3-5-2	GAGGAGCTGACTGGCCATG
E1-3-1	CACCATGTGGACCCATGGTG
E1-3-2	CTGGGTTTGCAAAGGACTCTG
E1-9-1	CATGTGGCAGGGACTATGGCTG
E1-9-2	CACCATGGGTCCACATGGTG
E1-11-1	GTGGTAGGATTTGCCACCAAG
E1-11-2	GAGTCCAGTGGGTCAAGTAG
E2-1-F1	TCAAGACGCAGGTAACAGTG
E2-3-B1	CATACTGATGCTTCTTGGTGAT
E2-6-F1	GTATACACTTTCATAGGGAGAC
E2-6-2	CATTCTTGTGAACTCAGGTGC
E2-6-B2	CTTGCAATTTGACTGATTAGCAT
E2-11-F2	CTCTGCCTCTCAAGTGCTAAG
E2-11-B2	GAATGGCAGTGTAACCTTAGA
R26GFP-FF-2	CTCGGCTAGGTAGGGGATCG
R26GFP/P-B4	CGTCGCCGTCCAGCTCGACCAG
R26GFP/P-B6	CACGAACTCCAGCAGGACCATG
R26GFP/P-F2	CTCCTGGCTTCTGAGGAC
R26GFP-BB-1	GTGCAGTGTTGAGGGCAATC
R26GFP/P-F7-b	CTTCTACGAGCGGCTCG
RT-PCR primers	

Nanog_F	CAGCAGATGCAAGAACTCTCC
Nanog_R	GGATACTCCACTGGTGCTGAG
Oct4_F	ATGGCATACTGTGGACCTC
Oct4_R	AGCAGCTTGGCAAAGTGTTC
Sox2_F	ATGCACAAGCTCGGAGATCAG
Sox2_R	TTTATAATCCGGGTGCTCCTTC
Cdx2_F	AAAAGACAAATACCGGGTGGTG
Cdx2_R	TGATTTTCCTCTCCTTGGCTCT
Ehox_F	AACAGCAACCAAGAGGACCAGGAC
Ehox_R	CTCTGGCTTCACTCACACCTATCC
Eomes_F	TGCAAGAGAAAGCGCCTGTCTC
Eomes_R	CAATCCAGCACCTTGAACGACC
Pax6_F	TACCAGTGTCTACCAGCCAAT
Pax6_R	TGCACGAGTATGAGGAGGTCT
Nestin_F	CCCTGAAGTCGAGGAGCTG
Nestin_R	CTGCTGCACCTCTAAGCGA
Ngn2_F	AATGCAAGCGTGGAATTTAGG
Ngn2_R	ACGTGTGTGGCTGATCCTGG
Fgf5_F	CTGTATGGACCCACAGGGAGTAAC
Fgf5_R	ATTAAGCTCCTGGGTGCGAAG
Sox1_F	ATGCACCGCTACGACATGGG
Sox1_R	GCTCCGACTTGACCAGAGATCC
Brachyury_F	CTCTAATGTCCTCCCTTGTGCC
Brachyury_R	TGCAGATTGTCTTTGGCTACTT
Hand1_F	GCGTCAGTACCCTGATGCCTTC
Hand1_R	AAAGAGGAGGTAAGAGGACGGAAG
Gooseoid_F	AAACGCCGAGAAGTGGAACAAG
Gooseoid_R	AAGGCAGGGTGTGTGCAAGTAG
Runx1_F	CTCCAATAGCCCTTCTCACTT
Runx1_R	AGCAAGAGAATGGCTGACTCAC
Sox17_F	ACAACGCAGAGCTAAGCAAGAT
Sox17_R	GTACTTGTAGTTGGGGTGGTCCT
Gata4_F	ATAATCTCCTTCACCCCAGCTC
Gata4_R	GGGCAGGGCTTCTATGTCTAGT
Gata6_F	ACAGCCCACTTCTGTGTTCCC
Gata6_R	GTGGGTTGGTCACGTGGTACAG
Sox9_F	TCTCCCCCTTTTCTTTGTTGTT
Sox9_R	ACGCACACATCCACATACAGTC

Supplementary Table 3: Comparisons of transcript abundance between Ctrl and Q-KO ES cells

id	baseMean	log2 fold cha	lfcSE	stat	p-value	p-adj
Rhox13	1051.60585	4.09230298	0.27305684	14.9870002	8.93E-51	1.39E-46
Akr1cl	1103.11351	3.68685325	0.36083072	10.2176812	1.65E-24	4.28E-21
Rhox2h	103.628217	3.35537608	0.34866919	9.62337982	6.37E-22	9.91E-19
Igfbp7	881.546459	3.20320114	0.3388073	9.45434522	3.25E-21	3.63E-18
Slc13a5	2628.7357	3.14898428	0.29399032	10.7111835	9.02E-27	2.81E-23
Afm	43.6074011	3.14303641	0.42157241	7.45550793	8.95E-14	2.96E-11
Rin3	314.741815	2.92585934	0.31652124	9.24380097	2.38E-20	2.31E-17
Atp12a	562.778586	2.90984535	0.29872755	9.74080017	2.02E-22	3.49E-19
Asz1	712.305439	2.90328821	0.3737786	7.7674009	8.01E-15	3.37E-12
Dppa1	61.4603294	2.88065634	0.42967763	6.70422693	2.02E-11	3.70E-09
BC053393	282.650086	2.78470661	0.37702789	7.3859432	1.51E-13	4.55E-11
Nell2	160.548233	2.77174097	0.38520434	7.19550823	6.22E-13	1.70E-10
Cd74	436.252265	2.74526242	0.37035132	7.41258985	1.24E-13	3.93E-11
Nap1l5	291.609812	2.73421477	0.27549526	9.92472539	3.25E-23	6.32E-20
Crispld2	226.167751	2.69342409	0.33953671	7.93264468	2.15E-15	1.04E-12
Otor	28.2785011	2.68141999	0.42911292	6.2487515	4.14E-10	6.01E-08
AU022751	647.790422	2.67967947	0.37173328	7.20860792	5.65E-13	1.60E-10
Rhox6	447.123946	2.63227342	0.37965617	6.93330859	4.11E-12	9.13E-10
Lmod3	90.3306843	2.61638342	0.38239611	6.84207648	7.81E-12	1.62E-09
Gm9	542.711861	2.59571189	0.29158509	8.90207343	5.48E-19	5.01E-16
Gpnmb	1462.527	2.58030471	0.31215194	8.26618183	1.38E-16	9.78E-14
Derl3	418.925972	2.56210295	0.23393794	10.9520626	6.50E-28	2.53E-24
Gsto1	14423.8207	2.54521949	0.31395671	8.10691231	5.19E-16	2.99E-13
Lrrc4	102.225832	2.53948248	0.35336528	7.18656476	6.64E-13	1.78E-10
Cdx2	47.0771812	2.53806029	0.40789369	6.22235729	4.90E-10	6.80E-08
Adcy2	333.539747	2.53098207	0.32168886	7.8677953	3.61E-15	1.65E-12
H2bfm	121.809433	2.51010056	0.33364218	7.52333106	5.34E-14	1.85E-11
Rec8	8003.94667	2.47868208	0.24933974	9.94098279	2.76E-23	6.13E-20
Pik3r3	6466.42183	2.46600561	0.2016161	12.2311941	2.12E-34	1.65E-30
Akr1c18	51.7511722	2.43181775	0.37525532	6.48043511	9.15E-11	1.50E-08
Sez6l	218.545766	2.41413729	0.27848038	8.6689673	4.36E-18	3.77E-15
AI118078	279.651828	2.40715755	0.30922827	7.7844032	7.00E-15	3.11E-12
Tacstd2	27.1333578	2.39778417	0.42995583	5.57681516	2.45E-08	2.27E-06
Cpne8	172.410098	2.33587661	0.39103843	5.97352181	2.32E-09	2.82E-07
Tbx2	308.383466	2.31284206	0.3431984	6.73908164	1.59E-11	3.02E-09
2200002D011	297.566729	2.3127064	0.30814918	7.50515195	6.14E-14	2.07E-11
Fam198b	3964.81624	2.30067777	0.28751677	8.00189079	1.23E-15	6.57E-13
Gm1564	5943.91432	2.28530579	0.24173618	9.45371859	3.27E-21	3.63E-18
Wls	1979.18121	2.25992156	0.31836313	7.09856557	1.26E-12	3.11E-10

Kcnh1	118.240821	2.25017695	0.36644982	6.14047762	8.23E-10	1.12E-07
Rhox2d	62.7943794	2.24446919	0.41007602	5.4733003	4.42E-08	3.84E-06
Slc26a9	108.239165	2.21408205	0.4090818	5.41232113	6.22E-08	5.12E-06
Luzp4	119.694545	2.19669262	0.31955562	6.87421054	6.23E-12	1.33E-09
Rhox2g	50.2852088	2.18485832	0.42128236	5.18620893	2.15E-07	1.48E-05
Ffar3	332.218329	2.15902602	0.29025428	7.43839521	1.02E-13	3.30E-11
Pmaip1	3764.28861	2.15679488	0.30245211	7.13102926	9.96E-13	2.58E-10
Lcp1	1525.47099	2.14706596	0.32499747	6.60640827	3.94E-11	6.73E-09
Prg4	52.429348	2.1405151	0.4321662	4.9529902	NA	NA
Cyp11a1	57.3162529	2.13126033	0.3533505	6.03157574	1.62E-09	2.10E-07
Cd34	154.329039	2.1311845	0.3394539	6.27827367	3.42E-10	5.02E-08
Hoxb9	476.128646	2.12078927	0.26135616	8.11455629	4.88E-16	2.92E-13
Sh3d21	611.433317	2.11564699	0.28863212	7.32990843	2.30E-13	6.76E-11
C1qtnf9	38.6512382	2.08494277	0.40144231	5.19362983	2.06E-07	1.43E-05
Mrc2	216.164522	2.08100502	0.3868049	5.3799862	7.45E-08	5.94E-06
Mrc1	73.9029463	2.06140162	0.38566186	5.34510112	9.04E-08	7.00E-06
Eomes	1009.32322	2.05584763	0.1822252	11.2819064	1.61E-29	8.36E-26
Muc1	331.515239	2.05356452	0.21799407	9.42027691	4.50E-21	4.66E-18
Gm16063	65.0354141	2.04916207	0.34796067	5.88906227	3.88E-09	4.35E-07
Loxl4	208.912258	2.04770093	0.37584059	5.448323	5.08E-08	4.32E-06
Rhox1	803.957581	2.03718097	0.25509049	7.98611102	1.39E-15	7.22E-13
Rhox2b	82.0412765	2.02717931	0.39443105	5.13950242	2.75E-07	1.83E-05
Rhox9	438.190286	2.02469142	0.41174395	4.91735557	8.77E-07	5.02E-05
Eras	426.233089	2.02348669	0.26659574	7.59009381	3.20E-14	1.24E-11
Parvg	122.767446	2.02095216	0.37655141	5.36700194	8.01E-08	6.32E-06
Adam11	1265.73398	2.00793539	0.23643713	8.49247054	2.02E-17	1.66E-14
Zcchc12	53.2861587	2.00779308	0.38797616	5.17504246	2.28E-07	1.55E-05
Gm12169	125.917634	2.0032383	0.42911118	4.66834329	3.04E-06	0.00014012
Dgkeos	52.5626275	1.99718491	0.36317305	5.49926521	3.81E-08	3.37E-06
Ptgs2	79.8559181	1.99685055	0.34153233	5.84673948	5.01E-09	5.49E-07
Mlkl	33.8049148	1.99068542	0.41569124	4.78885588	1.68E-06	8.61E-05
Cmtm5	33.7200242	1.96989206	0.42191221	4.66896191	3.03E-06	0.00014011
Nxf2	87.4908613	1.96055695	0.42252399	4.64010806	3.48E-06	0.00015742
Tex16	19.4149446	1.95130927	0.43225619	4.51424252	6.35E-06	0.000256
Rhox10	40.0885955	1.94312085	0.40960278	4.7439152	2.10E-06	0.00010284
Espnl	25.1049158	1.94079993	0.42418701	4.57534032	4.75E-06	0.00020146
Lrrk1	218.113023	1.93408559	0.27535307	7.02402055	2.16E-12	5.16E-10
Ecm1	241.887122	1.93266629	0.26382464	7.32557157	2.38E-13	6.85E-11
Fndc1	439.263886	1.93109762	0.37600793	5.13578958	2.81E-07	1.85E-05
Scg3	45.9114545	1.91771022	0.39350951	4.87335165	1.10E-06	6.05E-05
Penk	131.379667	1.91459568	0.2966731	6.45355332	1.09E-10	1.75E-08

Taf7l	268.195792	1.90715636	0.38818436	4.91301696	8.97E-07	5.11E-05
Smim6	26.4797292	1.90462427	0.42964314	4.43303774	9.29E-06	0.00035589
Gpr85	126.092182	1.90045629	0.31882247	5.96086063	2.51E-09	2.98E-07
Cemip	679.95037	1.89971563	0.23067928	8.23531123	1.79E-16	1.16E-13
6330410L21F	585.57738	1.89696368	0.30447205	6.23033777	4.65E-10	6.64E-08
Ptges	3621.28856	1.89497939	0.31975075	5.9264267	3.10E-09	3.59E-07
Ppp1r14d	1553.41033	1.8928808	0.24344126	7.77551351	7.51E-15	3.25E-12
Mmp23	468.725879	1.89121635	0.33833366	5.58979656	2.27E-08	2.12E-06
Cox6a2	49.4046874	1.88695177	0.40657673	4.64107179	3.47E-06	0.00015715
Aldh1a3	568.270127	1.87880405	0.32146461	5.8445128	5.08E-09	5.52E-07
A730082K24f	111.378356	1.87845627	0.40378009	4.65217651	3.28E-06	0.00015023
Chrm4	282.527841	1.8782498	0.28372537	6.61995724	3.59E-11	6.21E-09
LOC10050345	19.7818481	1.87678141	0.42982527	4.36638219	1.26E-05	0.00045684
Gm6406	44.3936484	1.87614608	0.38939974	4.81804662	1.45E-06	7.69E-05
Cr2	21.9850567	1.87252191	0.42197887	4.43747791	9.10E-06	0.00034949
Rhox7	39.6115255	1.87151587	0.4222921	4.43180417	9.34E-06	0.00035705
Mageb4	92.4076295	1.86782067	0.40764218	4.58201035	4.61E-06	0.00019675
Dab2	127.852088	1.86033438	0.40521317	4.59100183	4.41E-06	0.0001895
Avil	68.5742396	1.85774825	0.34788811	5.34007406	9.29E-08	7.15E-06
Rhox2c	30.2343693	1.84708199	0.41523031	4.44833129	8.65E-06	0.00033394
Atxn1	652.510529	1.84692646	0.34136362	5.41043723	6.29E-08	5.12E-06
Alas2	18.5896958	1.83975611	0.43205058	4.25819609	2.06E-05	0.00068333
Cd200	233.356346	1.83312202	0.32547773	5.63209654	1.78E-08	1.72E-06
Nnat	240.556139	1.8312675	0.39347578	4.65407936	3.25E-06	0.00014929
Gm9992	33.2082863	1.82217466	0.41357417	4.40591986	1.05E-05	0.00038939
Psors1c2	84.0899139	1.82078986	0.33103087	5.50036274	3.79E-08	3.37E-06
Cdkl2	1119.49676	1.81688485	0.28318299	6.41593932	1.40E-10	2.22E-08
Sln4	182.04793	1.80710974	0.34666102	5.21290139	1.86E-07	1.30E-05
1700084C01f	88.5135535	1.80658647	0.4023267	4.49034694	7.11E-06	0.00028354
Map3k15	871.878727	1.79672875	0.3490642	5.14727297	2.64E-07	1.76E-05
Lrp2bp	19.0219275	1.79258019	0.42692591	4.19880858	2.68E-05	0.00084639
Brdt	289.846449	1.78288086	0.36465586	4.88921489	1.01E-06	5.67E-05
Trpc6	289.8689	1.78117258	0.34179406	5.21124494	1.88E-07	1.31E-05
4-Sep	312.493927	1.77140991	0.38537204	4.59662279	4.29E-06	0.00018757
Rbm46	41.2321698	1.76517428	0.39573103	4.46054043	8.18E-06	0.00031784
Lxn	1246.52786	1.76300257	0.1841093	9.57584722	1.01E-21	1.43E-18
Mxd4	343.831084	1.75424657	0.28817386	6.08745907	1.15E-09	1.52E-07
Adamtsl4	473.198225	1.7507228	0.23700191	7.38695648	1.50E-13	4.55E-11
Al661453	692.041524	1.75037495	0.28840509	6.06915406	1.29E-09	1.68E-07
Dbx2	61.3921645	1.74488526	0.38689353	4.50998822	6.48E-06	0.00026051
Sytl4	27.5300822	1.74190073	0.43074401	4.0439349	5.26E-05	0.0014467

Aqp3	19303.572	1.73822962	0.36905323	4.7099699	2.48E-06	0.00012003
D1Pas1	4143.96748	1.73052504	0.33812106	5.11806339	3.09E-07	2.02E-05
Ddn	89.3913294	1.72777766	0.39893427	4.33098325	1.48E-05	0.00051876
Nnmt	865.702966	1.7272446	0.37415436	4.61639571	3.90E-06	0.00017398
Tspan8	35.1136956	1.72601911	0.40908643	4.219204	2.45E-05	0.00078448
Pianp	891.572062	1.71971981	0.29823762	5.76627388	8.10E-09	8.35E-07
Ccdc169	129.926924	1.71751859	0.34278231	5.01052282	5.43E-07	3.30E-05
Nrcam	202.614762	1.71687292	0.33206807	5.17024396	2.34E-07	1.58E-05
Cyp2r1	24.9944592	1.71171632	0.4183908	4.09119014	4.29E-05	0.00124514
C1ql3	66.9873921	1.71143305	0.38931105	4.39605565	1.10E-05	0.00040431
Cadps2	160.663544	1.70597256	0.30599706	5.57512721	2.47E-08	2.28E-06
Pramel6	2734.85579	1.70039271	0.31728577	5.35918367	8.36E-08	6.55E-06
Il34	1182.39129	1.69530195	0.24250876	6.99068331	2.74E-12	6.35E-10
Slc24a5	834.817106	1.69270604	0.3913385	4.32542684	1.52E-05	0.00052963
H2-T10	170.513168	1.67959388	0.36558369	4.59428011	4.34E-06	0.00018898
Btla	103.513748	1.67577475	0.43034176	3.89405564	9.86E-05	0.0024285
Bche	485.67176	1.6742957	0.24883941	6.72841846	1.72E-11	3.18E-09
Veph1	29.9686105	1.67389422	0.41300133	4.05299959	5.06E-05	0.00140184
BC049715	50.1454604	1.67264663	0.42030971	3.97955745	6.90E-05	0.00182292
Slc25a31	231.391635	1.66495477	0.34820359	4.78155544	1.74E-06	8.84E-05
Rhox2a	38.499111	1.66329755	0.40911644	4.06558473	4.79E-05	0.0013528
Cabs1	80.3741971	1.66153113	0.38001628	4.37226305	1.23E-05	0.00044678
Nefm	1134.83115	1.65894152	0.37213935	4.45785036	8.28E-06	0.00032105
Atp1a4	25.1866869	1.65122238	0.42612447	3.8749767	0.00010663	0.00257098
1700019A02f	418.120321	1.64953762	0.37338348	4.41781089	9.97E-06	0.00037647
Fam124b	57.5127985	1.64783327	0.36224988	4.54888565	5.39E-06	0.00022425
Tlx3	84.9675563	1.64636165	0.31782721	5.18005252	2.22E-07	1.52E-05
Cebpd	151.53111	1.64418023	0.34960701	4.70293831	2.56E-06	0.00012347
Nacad	64.064787	1.63998027	0.40284751	4.07097034	4.68E-05	0.00133802
Gramd2	348.266274	1.63597283	0.24847785	6.58397856	4.58E-11	7.66E-09
Shisa3	19.9210017	1.63363412	0.43202266	3.7813621	0.00015597	0.00348997
5330417C22f	28.1320815	1.62603609	0.41517411	3.91651611	8.98E-05	0.00224248
Rhcg	391.366009	1.62399748	0.41342872	3.92811967	8.56E-05	0.00216482
G630090E17f	15.612451	1.62369853	0.43227178	3.75619831	0.00017251	0.00379458
Pcp2	57.8144821	1.62112281	0.41368034	3.91878133	8.90E-05	0.00222867
Cnih2	86.2050728	1.61585091	0.35187844	4.59207139	4.39E-06	0.00018905
Cntn3	29.8254858	1.61501552	0.40610111	3.97688032	6.98E-05	0.00183782
3830403N18f	47.4903467	1.61435807	0.40666263	3.96977241	7.19E-05	0.00188027
Sp9	31.0821697	1.61165322	0.40881234	3.94228121	8.07E-05	0.0020682
Fcer1g	43.7512476	1.61107838	0.38251252	4.21183177	2.53E-05	0.00080352
Slc43a3	1770.09968	1.61040147	0.29209913	5.51320176	3.52E-08	3.17E-06

Nav3	15.7686902	1.61036011	0.42188137	3.81709228	NA	NA
Fbxo39	85.9995712	1.60471114	0.35046694	4.57878038	4.68E-06	0.00019872
Tmem82	800.847118	1.60117773	0.2702506	5.92478882	3.13E-09	3.60E-07
Slc4a9	141.231995	1.59737383	0.37805873	4.22520025	2.39E-05	0.00076863
Wnt2b	20.111916	1.59694512	0.4315238	3.70071153	0.000215	0.00451201
Fjx1	287.309078	1.59678396	0.23381786	6.82917883	8.54E-12	1.71E-09
Omp	153.601893	1.59179219	0.32190314	4.94494155	7.62E-07	4.42E-05
F2rl2	16.0582649	1.57596708	0.43038153	3.66179072	0.00025046	0.00507146
Rasl10b	302.827056	1.56824074	0.3971893	3.94834586	7.87E-05	0.00202945
Tspan12	74.6857467	1.56377721	0.40724593	3.83988422	0.00012309	0.00289228
Dyrk4	59.9515787	1.56257932	0.36001128	4.34036205	1.42E-05	0.0005039
Tmem132d	64.6831669	1.56225016	0.39784556	3.9267754	8.61E-05	0.00217341
Synpo2l	39.784012	1.55784328	0.42221836	3.68966255	0.00022455	0.004656
Rhox4a	91.5129119	1.55157625	0.37632442	4.12297515	3.74E-05	0.00110785
Cd180	164.46204	1.54895823	0.39291432	3.94222902	8.07E-05	0.0020682
Zfp521	134.824187	1.54679872	0.34832291	4.44070339	8.97E-06	0.00034514
Klb	721.302099	1.5449334	0.35069699	4.40532273	1.06E-05	0.00038939
Tecrl	23.6961243	1.54429005	0.43223898	3.57276903	0.00035323	0.00662114
Tmem181b-p	1243.5575	1.54413783	0.3606662	4.28134884	1.86E-05	0.00062259
Sp100	358.139664	1.54336069	0.33004675	4.67618818	2.92E-06	0.00013585
BC049762	179.18097	1.53757166	0.38390861	4.00504607	6.20E-05	0.00165111
Junb	1009.57354	1.5361468	0.3004133	5.11344465	3.16E-07	2.06E-05
1700011H14l	15.6195331	1.53382961	0.43054479	3.56253201	0.0003673	0.00685534
Lpo	26.7588062	1.52794967	0.41281345	3.70130785	0.00021449	0.0045075
Adcyap1	40.7222489	1.52745176	0.37687202	4.052972	5.06E-05	0.00140184
Klrg2	243.66258	1.52510483	0.38403222	3.97129393	7.15E-05	0.00187144
Fam186b	30.1377974	1.52226955	0.43123671	3.53000915	0.00041555	0.00754043
Pinlyp	91.1422903	1.51995937	0.3574606	4.25210319	2.12E-05	0.00069625
Klhl32	83.6155776	1.51590304	0.30442133	4.9796217	6.37E-07	3.77E-05
Cidea	314.846194	1.51113851	0.36249596	4.16870445	3.06E-05	0.0009452
Kcnk2	41.2920512	1.50876558	0.39060731	3.86261479	0.00011218	0.00268386
Serp2	284.436445	1.50780106	0.31597289	4.77193166	1.82E-06	9.15E-05
Tbx20	98.3262502	1.50754452	0.42372296	3.55785423	0.0003739	0.0069551
Yipf7	29.3614145	1.50684858	0.42869544	3.51496289	0.00043982	0.00786255
Fosl2	134.311094	1.50616152	0.29530749	5.10031604	3.39E-07	2.19E-05
Hecw2	277.406875	1.50218632	0.31645351	4.74694164	2.07E-06	0.00010163
Tmem59l	28.1647665	1.50183468	0.42640212	3.52210886	0.00042813	0.00772113
Gm773	51.5313354	1.49802252	0.36906723	4.05894205	4.93E-05	0.00138172
Spred3	349.306133	1.49419293	0.25737046	5.80561163	6.41E-09	6.74E-07
Hpca	148.083836	1.49396945	0.37531782	3.98054489	6.88E-05	0.00181845
Cd3e	1420.9424	1.49274774	0.36404799	4.10041472	4.12E-05	0.00120326

Rhox4d	16.9448383	1.49246745	0.43157405	3.45819549	0.00054381	0.00924426
Chrna4	650.860108	1.4900931	0.43210657	3.4484389	0.00056384	0.00951001
Nfe2	575.993444	1.4892089	0.25021441	5.95173115	2.65E-09	3.10E-07
Tspan32	450.857122	1.48912146	0.29900785	4.98020853	6.35E-07	3.77E-05
Ccdc116	132.83272	1.48903428	0.28266183	5.26790007	1.38E-07	1.01E-05
D330045A20	30.4057481	1.48886594	0.40013432	3.72091538	0.0001985	0.00425193
Angptl3	13.4931419	1.48636317	0.42818249	3.47133107	0.00051789	0.00888922
Otx1	142.807425	1.48599861	0.30642366	4.84949048	1.24E-06	6.66E-05
Tktl2	247.545983	1.48433703	0.3971645	3.73733564	0.00018598	0.00405636
Anxa3	94.308737	1.48215875	0.42312329	3.5029004	0.00046022	0.0081421
Ctgf	2423.57169	1.48179709	0.35557264	4.16735403	3.08E-05	0.00094894
Fbln5	364.692107	1.48037932	0.29017609	5.10165842	3.37E-07	2.18E-05
Themis3	25.598282	1.47240045	0.42012491	3.50467308	0.00045717	0.00809729
Gm20756	18.6034225	1.47214099	0.43219681	3.40618195	0.00065878	0.01077258
Lman1l	9.46318021	1.47174009	0.4148068	3.54801346	0.00038815	0.00710965
1600010M07	11.7780266	1.46826249	0.4308437	3.40787737	0.0006547	0.01074063
Zfp783	119.187355	1.46531533	0.33168929	4.41773484	9.97E-06	0.00037647
Dclk3	834.086658	1.46314324	0.24394278	5.99789521	2.00E-09	2.49E-07
Spint5	115.630527	1.46045126	0.358249	4.07663733	4.57E-05	0.00131098
Prr23a	120.135128	1.45749742	0.36606957	3.98147661	6.85E-05	0.00181442
Bmp1	136.849871	1.45552924	0.33550247	4.33835626	1.44E-05	0.00050644
Dgkk	18.8752213	1.45456467	0.43135529	3.37208026	0.00074603	0.01184554
Wnt6	98.0853483	1.45410128	0.30407305	4.78207875	1.73E-06	8.84E-05
Etv4	1864.60281	1.45228468	0.1917617	7.57338248	3.64E-14	1.32E-11
Ecel1	200.422441	1.44593377	0.39115903	3.69653686	0.00021856	0.00457447
Chrna1	19.3482683	1.44447621	0.42413391	3.40570792	0.00065993	0.01077997
Fgf18	29.7827555	1.44337657	0.40269091	3.58432864	0.00033795	0.00645627
Fkbp6	3937.84775	1.44133682	0.23971649	6.01267279	1.82E-09	2.31E-07
Rnf150	21.5430066	1.43991448	0.43227189	3.3310389	0.00086523	0.01320423
Fam196a	44.7344987	1.43348566	0.40676246	3.52413457	0.00042487	0.00769165
Reep2	260.099827	1.43283389	0.25578292	5.60175759	2.12E-08	2.00E-06
Zbtbd6	198.226131	1.42864403	0.26549555	5.38104699	7.41E-08	5.94E-06
Plat	125.141819	1.42291713	0.34434567	4.13223466	3.59E-05	0.00107437
Scarf2	156.841542	1.4225441	0.34270474	4.15093207	3.31E-05	0.00101364
Calml4	169.642582	1.42230353	0.38618609	3.68294858	0.00023055	0.00474875
S100a13	5493.70572	1.421287	0.33267069	4.27235412	1.93E-05	0.00064547
Stard6	46.7932265	1.4212792	0.38851585	3.65822706	0.00025397	0.00513579
Grk5	549.829627	1.4197906	0.24889348	5.70441056	1.17E-08	1.16E-06
Cnga4	571.771483	1.41774112	0.2684752	5.28071543	1.29E-07	9.62E-06
Snx33	148.096517	1.41688848	0.29555926	4.79392346	1.64E-06	8.42E-05
Nlrp5-ps	107.230092	1.41641598	0.36016641	3.93267091	8.40E-05	0.00213813

B830017H08I	81.2324853	1.41638647	0.39189795	3.6141717	0.00030131	0.00585784
Fbn1	342.337664	1.41256921	0.359143	3.93316653	8.38E-05	0.00213722
Igsf5	87.3599053	1.41196534	0.4123194	3.42444554	0.00061606	0.01024628
Fam115a	414.847853	1.40822759	0.34813451	4.04506752	5.23E-05	0.00144484
Fam154a	119.055274	1.40760796	0.33095109	4.25322053	2.11E-05	0.00069425
Iqcf4	10.6922714	1.40642744	0.4208339	3.34200132	0.00083177	0.01283215
Frrs1l	189.284584	1.40383712	0.31726672	4.42478533	9.65E-06	0.00036796
Arntl2	549.550226	1.40253199	0.25963909	5.40185226	6.60E-08	5.34E-06
Prdm6	31.796008	1.40152182	0.41634831	3.36622434	0.00076205	0.01201886
Stard10	815.817682	1.39724853	0.32215003	4.33726023	1.44E-05	0.00050644
2900005J15R	62.0399927	1.39616077	0.4167222	3.35033932	0.00080713	0.01257677
Hmcn1	45.4464457	1.395786	0.40304577	3.46309548	0.000534	0.00913234
Prkcq	24.7863152	1.39348329	0.42608044	3.27047	0.00107369	0.01540308
Pigz	15.8882692	1.39277493	0.4321487	3.22290663	0.00126897	0.01738655
Lrrc73	47.4785467	1.38952819	0.39138281	3.55030455	0.00038479	0.00707305
Sycp2	56.3852584	1.38559064	0.38500081	3.59892918	0.00031953	0.00616503
BC051019	123.707778	1.38552835	0.37095394	3.73504147	0.00018768	0.00408778
Gp5	27.6644132	1.3855014	0.40069593	3.45773761	0.00054473	0.00924426
Ceacam20	243.845349	1.38453719	0.25416282	5.44744195	5.11E-08	4.32E-06
Prr5l	551.056643	1.38342484	0.37479232	3.6911771	0.00022322	0.00464074
Slc22a14	26.8968511	1.38227957	0.40566079	3.40747644	0.00065567	0.01074063
Dock10	69.8567972	1.3767269	0.40885568	3.36726861	0.00075917	0.01198559
Atg16l2	825.128823	1.37585335	0.26288568	5.23365656	1.66E-07	1.20E-05
Col14a1	19.8699882	1.37438806	0.42229768	3.25454801	0.00113573	0.01605493
Lyn	1092.31505	1.37135358	0.23979246	5.71891875	1.07E-08	1.08E-06
Trpv4	290.514149	1.36939497	0.31422828	4.35796223	1.31E-05	0.00047257
9630028B13F	11.3520651	1.36376608	0.43118231	3.16285259	0.00156231	0.02016379
Rgs9	1371.04188	1.36320289	0.29511866	4.61916874	3.85E-06	0.00017217
Spns3	183.349882	1.36034819	0.33845667	4.01926841	5.84E-05	0.00156678
Sox2ot	74.5890144	1.35902218	0.34943287	3.88922248	0.00010057	0.00244799
Slc7a8	2901.43626	1.35804693	0.42764346	3.1756523	0.001495	0.01955148
Igsf11	47.7469592	1.35752959	0.41153572	3.29869201	0.00097136	0.01424622
Angpt2	55.6538296	1.35450222	0.38077488	3.55722575	0.00037479	0.00696343
Gm7102	14.7627563	1.35306781	0.43087876	3.14025182	0.00168803	0.02133939
Cend1	24.9213244	1.35235249	0.43001007	3.14493217	0.00166125	0.02112359
Car6	88.4194384	1.35197303	0.36331598	3.7212044	0.00019827	0.00425193
Gm15107	14.065321	1.34430758	0.43151441	3.11532488	0.00183742	0.02293241
Rgag4	99.5754494	1.34350642	0.36856292	3.64525662	0.00026713	0.00533256
Unc5cl	380.997913	1.34324751	0.28677141	4.6840357	2.81E-06	0.00013243
Lama4	165.41525	1.34295528	0.32130215	4.17972698	2.92E-05	0.00090956
2310014L17F	306.008828	1.34136394	0.35043143	3.82775012	0.00012932	0.00301507

Antxr1	253.716208	1.34078683	0.29412294	4.55859316	5.15E-06	0.00021528
Lhb	11.3706105	1.34056598	0.43048471	3.11408504	0.00184516	0.02301053
Plcd4	380.756591	1.33924785	0.28794569	4.65104327	3.30E-06	0.00015061
1700001C19F	64.8263211	1.33818165	0.3926424	3.40814354	0.00065406	0.01074063
Slc39a14	628.067014	1.33791051	0.30762863	4.34910919	1.37E-05	0.00048826
Pea15a	725.806665	1.33733929	0.20096834	6.65447757	2.84E-11	5.08E-09
Cldn15	17.3701149	1.33566766	0.43062955	3.10166282	0.00192437	0.02378846
Gata2	679.572158	1.3351192	0.34295283	3.89301114	9.90E-05	0.0024285
Tmod2	830.126344	1.33435661	0.33716838	3.95753777	7.57E-05	0.0019627
Jph2	15.4999033	1.33056877	0.43208206	3.07943537	0.00207393	0.02501868
Mab21l2	9.32095325	1.32931665	0.4273867	3.11033699	0.00186874	0.0232584
Ebf4	90.7941348	1.32922083	0.39948705	3.32731891	0.00087686	0.01329955
Cdc14a	1538.81697	1.32910458	0.29155435	4.55868545	5.15E-06	0.00021528
Pkhd1	352.334781	1.32746022	0.41292331	3.21478638	0.00130542	0.01772972
Xist	32.8489037	1.32688814	0.42764593	3.10277274	0.00191717	0.02373717
Grip1	270.321654	1.32566007	0.32043125	4.13711235	3.52E-05	0.00105586
Rcsd1	287.108257	1.325425	0.321235	4.12602929	3.69E-05	0.00109534
Pax6	26.8101566	1.32502253	0.4124056	3.2129111	0.00131397	0.0177683
Cryge	123.986871	1.31833501	0.40213072	3.27837427	0.00104407	0.0150755
Lin28b	1219.61361	1.31787471	0.321589	4.09800927	4.17E-05	0.00121356
Gatm	41.9473695	1.31330543	0.38871727	3.37856205	0.00072866	0.01164583
Smim5	15.9067378	1.31106538	0.432272	3.03296393	0.00242165	0.0280201
Ret	111.877077	1.31100939	0.39604954	3.3102157	0.00093224	0.013873
Efcab3	12.1388618	1.31084497	0.4182167	3.13436782	NA	NA
Rasal3	148.325128	1.30599319	0.40036164	3.26203377	0.00110616	0.01576708
Naa11	1405.67158	1.30185575	0.19126226	6.80665235	9.99E-12	1.94E-09
Lhx2	375.95797	1.30118568	0.33124542	3.92816202	8.56E-05	0.00216482
Fgl1	99.038097	1.298109	0.3051455	4.25406566	2.10E-05	0.0006931
Cacna1s	30.5877059	1.2979108	0.42843199	3.02944419	0.00245004	0.0282618
Col7a1	123.868634	1.29720862	0.29387842	4.41409966	1.01E-05	0.00037917
Tat	202.718732	1.2962534	0.43035383	3.01206425	0.00259478	0.02930383
Gip	26.9580334	1.29543377	0.42141052	3.07404234	0.00211179	0.02532037
Bin1	1305.11666	1.2934885	0.3284921	3.93765478	8.23E-05	0.00210455
Prox1	36.9606119	1.29255106	0.4040885	3.19868307	0.00138057	0.01850795
Hus1b	183.487287	1.29229848	0.36822258	3.50955798	0.00044885	0.00798457
Mir22hg	351.919795	1.29202115	0.25877452	4.99284532	5.95E-07	3.60E-05
Scml2	1062.52585	1.29050194	0.35546634	3.63044769	0.00028293	0.00556238
Adh1	227.984967	1.28863628	0.27508062	4.68457668	2.81E-06	0.00013243
Map3k6	404.695016	1.28720967	0.23412102	5.49805251	3.84E-08	3.37E-06
Slc43a2	1537.38836	1.28714688	0.27760224	4.63665879	3.54E-06	0.00015914
Ica1l	83.9542444	1.28634753	0.30401152	4.23124606	2.32E-05	0.00075622

Rhox2f	31.6670687	1.28598173	0.43214099	2.97583838	0.00292189	0.03213457
Prss35	2551.25991	1.28556539	0.16919736	7.59802255	3.01E-14	1.20E-11
Pde3a	22.2296368	1.28148793	0.42554519	3.01140268	0.00260044	0.02934283
Mylpf	10647.6053	1.28087636	0.22715328	5.63881963	1.71E-08	1.67E-06
Bag2	366.553309	1.27996852	0.2552163	5.01523028	5.30E-07	3.24E-05
Cftr	12.558406	1.27972339	0.4207729	3.04136366	0.00235509	0.0274543
Parva	888.123969	1.27708924	0.37391918	3.41541521	0.00063685	0.01052458
Fam132a	338.015634	1.27473053	0.32612323	3.90873889	9.28E-05	0.00230481
Hoxa10	191.628693	1.27288323	0.42142002	3.02046218	0.00252389	0.02877496
Hic1	141.017714	1.27148926	0.39297164	3.23557507	0.00121398	0.01683797
A630072M18	301.609767	1.27087659	0.26449458	4.80492487	1.55E-06	8.08E-05
Fam20a	26.8250911	1.26817678	0.41509129	3.05517557	0.00224929	0.02657954
Nanos3	218.528012	1.26772025	0.35813018	3.53983087	0.00040038	0.00730794
Maats1	198.047799	1.26730932	0.31166284	4.06628299	4.78E-05	0.0013528
4930503E14F	45.4641548	1.2669527	0.39055928	3.24394465	0.00117887	0.01656057
Tm6sf2	45.21605	1.26466073	0.36959675	3.4217312	0.00062224	0.01030832
Tagln	47.8264447	1.26382761	0.394572	3.20303421	0.00135988	0.01826206
Ccrn4l	3736.59961	1.26363624	0.166544	7.58740195	3.26E-14	1.24E-11
Plxnc1	190.83406	1.26179621	0.4115724	3.06579405	0.00217093	0.02590952
Cpne2	640.917576	1.26106496	0.33368507	3.77920698	0.00015733	0.00351021
D10Bwg1379	321.871124	1.25997243	0.29879095	4.21690298	2.48E-05	0.00078928
Timp3	340.020096	1.25921488	0.38257304	3.2914365	0.00099677	0.01454108
C2cd4b	83.5522079	1.25734443	0.30888434	4.07059945	4.69E-05	0.00133802
Ptprn	89.2710735	1.25613412	0.33174778	3.78641304	0.00015284	0.0034671
Mapk4	414.808044	1.25601575	0.30782978	4.08022823	4.50E-05	0.00129567
Cyp26c1	9.57714554	1.25588501	0.42732958	2.93891432	0.00329364	0.03491439
Slco1b2	20.3461637	1.25461593	0.43221886	2.90273298	0.00369922	0.03777187
Reep1	5484.3374	1.2534379	0.26492327	4.73132432	2.23E-06	0.00010908
Nr1i2	67.7755191	1.25322062	0.34068902	3.67848844	0.00023462	0.00481771
Sdc3	854.687583	1.2514306	0.27167186	4.60640493	4.10E-06	0.000181
6030419C18F	252.528556	1.25126723	0.39262214	3.18695022	0.00143782	0.01905746
Lrrc4b	13.551895	1.24888431	0.4311944	2.89633704	0.00377547	0.03835929
Plekhd1	1104.44166	1.24801196	0.23579398	5.29280661	1.20E-07	9.18E-06
Gsap	50.5444041	1.24750171	0.42682868	2.92272236	0.00346986	0.03616167
Hmga2	3965.72895	1.24408483	0.28942702	4.29844057	1.72E-05	0.00058402
Rnf219	710.097356	1.24220433	0.27339807	4.54357383	5.53E-06	0.00022814
H2-M3	102.815005	1.24138874	0.38236306	3.24662308	0.00116783	0.01644026
Gm5124	87.3739997	1.24062967	0.31197464	3.97670035	6.99E-05	0.00183782
Dusp14	1985.9881	1.23702877	0.25571277	4.8375713	1.31E-06	7.02E-05
Samd14	63.6749344	1.23556749	0.35331804	3.49704044	0.00047045	0.00827907
Actl7b	24.1217839	1.23209967	0.43108007	2.85816896	0.00426093	0.04162173

Slc25a24	156.307264	1.23098205	0.38047652	3.23536933	0.00121485	0.01683797
Trf	551.028613	1.22994571	0.38161062	3.22303845	0.00126839	0.01738655
4933412E12F	15.5623546	1.22958299	0.43227204	2.84446566	0.00444486	0.04299574
Hsbp1l1	119.005796	1.22518773	0.34030179	3.60029768	0.00031785	0.00614029
Slc25a20	8895.09912	1.22485802	0.26627867	4.59991038	4.23E-06	0.00018515
Amn	59.3506468	1.22435588	0.36246307	3.37787758	0.00073048	0.01166287
Mybpc1	209.877431	1.22370447	0.27920771	4.38277469	1.17E-05	0.00042876
Ang	24.2069338	1.22269902	0.40774709	2.99867009	0.00271161	0.03035868
Npr1	2347.00763	1.22248284	0.23799067	5.13668395	2.80E-07	1.85E-05
Gm5	40.3507473	1.22199797	0.387726	3.15170502	0.0016232	0.02077565
Fbxl7	39.8732669	1.22181807	0.42189155	2.89604775	0.00377895	0.03835929
Pla2g4a	79.9479511	1.22160369	0.39534493	3.0899693	0.00200177	0.02445369
Plin2	6051.50155	1.22063546	0.20254167	6.02658925	1.67E-09	2.15E-07
Ttbk1	52.2381947	1.22037634	0.40845323	2.98779946	0.00280994	0.03125705
Gpr20	41.1724941	1.22015384	0.38191536	3.19482785	0.00139914	0.01868178
Aqp8	193.413022	1.21880632	0.37392373	3.25950512	0.00111607	0.0158502
BC021785	9.20296244	1.2187866	0.4125659	2.95416221	0.00313519	0.0338344
6530402F18F	28.7268045	1.21873963	0.42698407	2.85429767	0.00431321	0.04202677
Guca2a	18.5680357	1.21789721	0.43179033	2.82057547	0.00479376	0.04556709
Snaaip	13.2243713	1.21777465	0.43174682	2.82057586	0.00479375	0.04556709
Cst6	10.4868737	1.21726491	0.43054513	2.82726439	0.00469475	0.0449177
Slc22a13b-ps	52.0894122	1.21700917	0.36454041	3.33847539	0.00084239	0.01294475
Nckap5	23.4468456	1.21426055	0.40944123	2.96565287	0.00302041	0.0329617
Slc25a45	123.263089	1.21294838	0.31057795	3.90545554	9.40E-05	0.0023326
Tbc1d5	1017.1603	1.21188688	0.2921034	4.14882844	3.34E-05	0.001017
Bves	47.2816702	1.21151319	0.39112554	3.09750464	0.00195157	0.02401022
Cdh2	486.577751	1.21093986	0.37094037	3.26451351	0.00109652	0.01568723
Nckap1l	5306.40743	1.209935	0.24683806	4.90173592	9.50E-07	5.35E-05
Rufy4	43.926141	1.20986086	0.39448066	3.06697132	0.0021624	0.02584736
Rpgrip1	1309.97905	1.20778295	0.33129893	3.64559876	0.00026677	0.00533231
Trim44	4012.52062	1.20763207	0.23800214	5.0740387	3.89E-07	2.47E-05
Smim9	9.34610092	1.20700751	0.41767158	2.8898483	0.00385428	0.03889544
Sh3bgrl	1383.16492	1.20640839	0.38716346	3.11601822	0.00183311	0.02289694
B3galt5	24.7264919	1.20496361	0.43120183	2.79443064	0.00519912	0.04835616
Rtn1	187.047663	1.20482779	0.37833782	3.18452909	0.0014499	0.01912918
Tenm1	32.7336166	1.20471908	0.42985639	2.80260831	0.00506912	0.04743073
Rhox4g	56.4251216	1.20316726	0.43222701	2.78364665	0.00537516	0.04975538
Cst13	14.4694423	1.20302916	0.42333864	2.84176557	NA	NA
Prss53	58.2052961	1.20179789	0.35325931	3.40202754	0.00066888	0.01088048
Myh4	8.72002037	1.20089794	0.41853417	2.86929485	0.00411388	0.04055697
Tnfaip8l2	83.9377878	1.19959002	0.3660822	3.27683242	0.00104979	0.01513016

S100a6	533.673963	1.19852775	0.35407801	3.38492566	0.00071198	0.01143652
Cplx1	52.2869481	1.1979575	0.40248398	2.97641041	0.00291644	0.03213457
Meg3	13481.8788	1.19696366	0.23651201	5.06090017	4.17E-07	2.62E-05
Ccdc152	81.7605012	1.19520298	0.42125195	2.83726393	0.0045502	0.04378721
Xirp1	15.5191835	1.19295811	0.43200458	2.76144781	0.00575457	0.05230236
Rltpr	813.767765	1.19224209	0.19936457	5.98021061	2.23E-09	2.73E-07
Efnb3	452.338402	1.19029486	0.34975525	3.40322229	0.00066596	0.01085572
Cxcl17	34.4761374	1.18876494	0.42896312	2.77125208	0.00558412	0.05125204
Elf1	34.0930503	1.18772087	0.40625928	2.92355378	0.0034606	0.03614228
Mmp2	535.875441	1.18762153	0.21994325	5.39967258	6.68E-08	5.38E-06
Snx7	553.834903	1.18742111	0.29205509	4.06574355	4.79E-05	0.0013528
Hoxc12	272.983201	1.18458466	0.2929695	4.04337192	5.27E-05	0.00144762
Tceal7	53.4924412	1.1845494	0.37138912	3.18951026	0.00142514	0.01894219
Npnt	712.055451	1.18383097	0.36192583	3.27092151	0.00107198	0.01539271
Ptpdc1	307.632071	1.18378649	0.24510246	4.8297618	1.37E-06	7.28E-05
A330102110R	34.9637587	1.18378628	0.41189508	2.87399955	0.0040531	0.0401463
Nat1	141.397087	1.18334814	0.3503952	3.37718134	0.00073233	0.01168044
1810019D21I	140.068443	1.18330405	0.28533017	4.14713956	3.37E-05	0.00102252
Hdgfrp3	1181.80009	1.18286215	0.28225223	4.19079831	2.78E-05	0.00086978
Esx1	430.415101	1.18281376	0.36248205	3.26309606	0.00110202	0.01573695
Col6a1	39.0577252	1.18280064	0.43152617	2.7409708	0.0061258	0.05446669
Spef1	167.570674	1.18195353	0.31986425	3.69517235	0.00021974	0.00458088
A330023F24F	27.0731316	1.18079972	0.42008985	2.81082655	0.00494144	0.04654413
Pde5a	433.402447	1.17987744	0.26690732	4.42055109	9.84E-06	0.00037341
Tex13	611.702123	1.17911152	0.42967545	2.74419101	0.00606602	0.05418307
B3gnt3	502.925454	1.17896755	0.35659377	3.30619226	0.00094573	0.01398576
Il16	22.7914337	1.17845039	0.43225931	2.726258	0.00640569	0.05622586
Bgn	68.9292689	1.17827076	0.43077254	2.73525037	NA	NA
Wdr6	11574.5995	1.17773315	0.18249946	6.45335148	1.09E-10	1.75E-08
Sycp1	363.778423	1.17768355	0.41554371	2.83407866	0.0045958	0.04408964
Abcg4	48.2217889	1.17548563	0.37012488	3.17591627	0.00149364	0.01955148
Asphd2	169.500518	1.1741721	0.35256233	3.33039579	0.00086723	0.01321222
Elf1	1987.19729	1.17359198	0.26217553	4.47635974	7.59E-06	0.00029968
Shd	25.6902927	1.17304936	0.40435522	2.90103678	0.0037193	0.03793426
Trpa1	307.590573	1.17106995	0.31795192	3.68316679	0.00023035	0.00474875
Samd9l	147.190718	1.17026049	0.42449058	2.75685858	0.00583596	0.05267266
Boc	303.12825	1.16969694	0.25013033	4.67634995	2.92E-06	0.00013585
Sycp3	1308.46136	1.16957917	0.36682605	3.18837542	0.00143075	0.01898425
9430018G01I	22.8330226	1.16952096	0.42072938	2.77974635	0.00544014	0.05014794
Nup62cl	3888.07561	1.16921917	0.32097012	3.6427664	0.00026972	0.00537064
Zfp467	48.3308727	1.16918553	0.37884088	3.08621798	0.0020272	0.02468677

Ptpn20	71.3343749	1.16789501	0.42198044	2.76765197	0.00564617	0.05158766
Cd3d	1963.16047	1.16581448	0.43074561	2.70650348	0.00679959	0.05874465
Tcp11	463.514627	1.16200972	0.40028091	2.90298562	0.00369624	0.03777187
Ube2l6	1399.00743	1.15849168	0.31442318	3.68449836	0.00022915	0.00473249
C7	16.0236106	1.15790217	0.4271034	2.7110582	0.00670689	0.05833265
Ffar2	212.68543	1.15590686	0.39313642	2.9402182	0.00327981	0.03481526
Wnt7b	226.853459	1.15391074	0.38646313	2.98582361	0.00282816	0.03139234
Pelo	1112.83609	1.15299735	0.23709036	4.86311351	1.16E-06	6.28E-05
Zfp287	123.631661	1.1527053	0.31231922	3.69079204	0.00022356	0.00464157
Podn	87.3239177	1.15216847	0.39984161	2.88156219	0.00395709	0.03962162
Ttll6	1216.16705	1.15190324	0.26837324	4.29216885	1.77E-05	0.00059816
Clec4a3	17.9882823	1.15023927	0.42768219	2.68947198	0.00715652	0.06104826
5330411J11R	330.714359	1.14983998	0.31815056	3.61413785	0.00030135	0.00585784
Six3os1	19.0512744	1.14978101	0.42889907	2.68077296	0.00734523	0.06214675
Pnma1	23.3707841	1.1496692	0.41401848	2.77685479	0.00548877	0.05054921
A630095N17	34.1668262	1.14888583	0.39040309	2.94281955	0.00325238	0.03461858
Spint1	7874.10312	1.14873842	0.19258745	5.96476256	2.45E-09	2.95E-07
Nhlh1	32.8125492	1.14741136	0.42352168	2.70921516	0.00674426	0.05860383
Eid1	1534.52956	1.14635442	0.21052017	5.4453425	5.17E-08	4.32E-06
Hoxd9	231.402419	1.14565759	0.35458838	3.23095071	0.00123379	0.01697938
Vav3	52.8866024	1.14527366	0.41768039	2.74198572	0.0061069	0.05439198
Irf5	248.790445	1.14438473	0.4095737	2.79408742	0.00520464	0.04837858
Asb14	25.9417765	1.14431092	0.42405674	2.69848537	0.00696558	0.05978021
Smarca2	574.335141	1.14391502	0.38439079	2.9759168	0.00292114	0.03213457
Ptprcap	95.3833552	1.14209268	0.37729438	3.02705991	0.00246945	0.02832037
Naip1	18.5686578	1.14117112	0.43146063	2.64490209	0.00817146	0.06759272
Prph	264.497545	1.14049265	0.30464667	3.74365707	0.00018136	0.00397232
Cspg5	282.759479	1.13937008	0.39946517	2.85223889	0.00434125	0.04225868
Eif4e1b	42.4945382	1.13928723	0.43227008	2.6355912	0.00839909	0.06864892
Fam174b	557.089654	1.13857056	0.1894915	6.00855737	1.87E-09	2.35E-07
Isl2	21.4437733	1.13731274	0.42064317	2.70374705	0.00685625	0.0591356
Gm15455	125.182693	1.13318866	0.30481332	3.71764807	0.00020109	0.00430136
Bco2	129.641947	1.13318134	0.41562999	2.72641862	0.00640257	0.05622586
Csrnp1	1311.84125	1.13315612	0.19477894	5.81765202	5.97E-09	6.31E-07
Hspb7	160.870168	1.13205408	0.36328639	3.11614782	0.0018323	0.02289694
Mixl1	105.93962	1.13139189	0.3714441	3.04592778	0.00231964	0.02723305
Disc1	38.3824706	1.12984309	0.38053767	2.96907031	0.00298702	0.0327121
Gm14458	17.5762559	1.12915279	0.432267	2.61216513	0.00899708	0.071935
Slc7a9	111.619919	1.12787905	0.36474963	3.09220063	0.00198679	0.02430881
Irak4	626.382741	1.12750901	0.19282452	5.84733222	5.00E-09	5.49E-07
6430411K18F	41.6518166	1.12556052	0.40906552	2.75154091	0.00593156	0.0532881

Btk	227.845597	1.12408628	0.35273538	3.18676931	0.00143871	0.01905746
Setd7	1441.15981	1.12297943	0.34499073	3.25510025	0.00113352	0.01605251
AU015836	157.86862	1.12181543	0.39950168	2.8080368	0.00498445	0.04689246
Vmn1r53	172.632803	1.12041455	0.38894195	2.88067293	0.00396827	0.03963429
Ccdc160	1121.73375	1.11936112	0.25787519	4.34070881	1.42E-05	0.0005039
Piwil2	1442.61835	1.11825379	0.34503641	3.24097333	0.00119122	0.01666516
1700013H16l	5604.5119	1.11732106	0.42780513	2.61175239	0.00900795	0.07198488
Arhgap9	1318.5589	1.11671244	0.22202278	5.0297202	4.91E-07	3.06E-05
Igsf10	164.549092	1.11619342	0.33632007	3.31884273	0.00090391	0.0135683
Rasl11a	79.9204811	1.11506598	0.3776314	2.95278939	0.00314917	0.03389114
Mira	59.2432788	1.11170647	0.39433604	2.81918559	0.00481457	0.04566662
Igll1	144.486593	1.10902588	0.34813037	3.18566256	0.00144423	0.01908174
Slc27a3	2200.80024	1.10878192	0.23441401	4.73001566	2.25E-06	0.00010944
Psemb9	129.996845	1.10866164	0.37756582	2.93634008	0.0033211	0.03512756
Th	24.9136387	1.10782168	0.41501517	2.66935223	0.00759977	0.06393786
Fzd9	429.385552	1.10711548	0.25636445	4.31852186	1.57E-05	0.00054403
Hepacam	39.3542751	1.10675884	0.38267685	2.89214994	0.00382615	0.0386618
2210417A02f	133.101512	1.1056223	0.34817991	3.17543391	0.00149613	0.01955148
H2-Q10	197.875893	1.1051063	0.33427161	3.30601307	0.00094634	0.01398576
Fkbp10	307.596807	1.10475018	0.23157246	4.77064588	1.84E-06	9.17E-05
Tmsb15a	25.5701375	1.10467459	0.40465992	2.72988391	0.00633566	0.05577716
Cpxm1	1558.6298	1.1044774	0.18948867	5.82872535	5.59E-09	5.99E-07
Aard	1677.35458	1.10447077	0.33030612	3.34377928	0.00082645	0.01278825
Sp140	41.5302738	1.10433527	0.40508218	2.72620057	0.00640681	0.05622586
Peg10	2059.6608	1.10421777	0.43163416	2.5582261	0.01052077	0.07999426
Nrp1	74.2754956	1.10124735	0.41995808	2.62227921	0.00873438	0.07048698
Ldoc1	25.2623118	1.10075191	0.42841653	2.56934978	0.01018896	0.07863447
Wfdc15a	105.13268	1.10050189	0.37497721	2.93485011	0.00333709	0.0351851
Hoxd11	47.5862721	1.10034809	0.42234015	2.60535991	0.00917778	0.07289331
Kctd8	14.1575644	1.09861278	0.42067466	2.61154971	0.00901329	0.07199057
Adam33	32.0495124	1.09702669	0.41387756	2.65060685	0.00803473	0.06678145
Atp6v1b1	38.3940778	1.09610194	0.42156253	2.60009338	0.00931984	0.07382402
Mdk	7516.45971	1.09473887	0.20996247	5.21397398	1.85E-07	1.30E-05
Cdrt4	19.1756968	1.09452557	0.43227225	2.5320283	0.01134048	0.08418971
Pabpc6	141.794424	1.09350577	0.41237942	2.65169822	0.00800881	0.0666016
Tdpoz1	11.135076	1.09294872	0.41421786	2.63858426	0.0083253	0.0682911
Csmd2	23.9247372	1.0922238	0.41587474	2.6263288	0.00863114	0.07004594
Al662270	2163.95778	1.09188115	0.28878561	3.78094033	0.00015624	0.00349087
Arhgef16	584.512747	1.09173834	0.32488205	3.3604145	0.00077826	0.01223727
Slc25a10	1103.84845	1.09022207	0.18450837	5.90879474	3.45E-09	3.94E-07
Chst5	45.5255615	1.0895282	0.42742914	2.54902646	0.01080241	0.0813139

Clcn5	799.348798	1.08897172	0.33456686	3.25487026	0.00113444	0.01605251
Acot2	174.621272	1.0885485	0.27741458	3.92390523	8.71E-05	0.00218882
Fads3	26.3590555	1.08799162	0.429632	2.53238032	0.0113291	0.08417529
Yipf2	847.799705	1.08698825	0.20005993	5.43331309	5.53E-08	4.60E-06
Tmem144	783.244775	1.08660392	0.24299721	4.47167239	7.76E-06	0.00030325
Krtdap	109.144863	1.08450103	0.42914562	2.52711662	0.01150033	0.08475907
Mirg	1197.85229	1.08397118	0.30308894	3.5764128	0.00034834	0.00658209
Fhdc1	93.7254628	1.08359001	0.36523517	2.96682819	0.00300889	0.03288212
Sox6	69.8162789	1.08316664	0.38661437	2.80167198	0.00508385	0.04753999
Sox3	139.427445	1.08270405	0.42475414	2.54901354	0.01080281	0.0813139
Vwce	67.0350193	1.08270059	0.33435019	3.23822339	0.00120277	0.01675001
Rnf144b	361.83379	1.08028625	0.24805141	4.35509015	1.33E-05	0.00047771
Cdk5r1	73.1561898	1.08027207	0.35706459	3.02542482	0.00248284	0.02844122
Ctsk	39.3112225	1.0793065	0.42432554	2.5435813	0.01097225	0.08211236
Gimap1	9.91936367	1.07830986	0.42939961	2.51120365	0.01203203	0.08747547
Nrn1	22.5701359	1.07810352	0.42864881	2.51512074	0.01189916	0.08671222
Gca	4785.47418	1.07745952	0.23665884	4.55279635	5.29E-06	0.00022071
Lax1	438.445323	1.07686518	0.27428336	3.92610463	8.63E-05	0.00217595
Mid1	3865.62856	1.07663164	0.4085348	2.63534866	0.00840509	0.06864892
Dok2	212.080441	1.07621588	0.3042965	3.5367344	0.00040511	0.00738548
Gm715	29.2238873	1.07602873	0.4189487	2.56840213	0.01021686	0.07875048
Slc22a17	2670.25577	1.0759755	0.3291903	3.2685517	0.00108099	0.01549359
Gsta3	1132.94641	1.07575822	0.32063632	3.35507286	0.00079344	0.01242578
Rom1	98.7668622	1.07491389	0.34863556	3.08320212	0.00204786	0.0248799
Nmb	401.196911	1.07465842	0.2399058	4.47950163	7.48E-06	0.00029757
Myom1	44.7722572	1.07416328	0.37285574	2.8809085	0.00396531	0.03963014
Trank1	411.70094	1.07339661	0.35214961	3.04812665	0.00230273	0.02706707
Sohlh2	5529.00458	1.07268765	0.29371532	3.65213382	0.00026007	0.00523202
Gm16861	23.5615094	1.07255947	0.41007534	2.6155181	0.00890922	0.07141612
Lat2	79.7570632	1.07237532	0.33153709	3.23455614	0.00121832	0.01687096
Vnn1	73.411946	1.07181048	0.42374616	2.52936917	0.01142678	0.08457773
Stra8	9234.94811	1.07133393	0.41334857	2.59184139	0.00954638	0.07482647
Klk15	14.2594738	1.07098484	0.43024669	2.48923436	0.01280185	0.09089998
Cmya5	18.2188817	1.06945652	0.42862005	2.49511548	0.01259161	0.0900286
Tshz1	122.471678	1.06846502	0.30337836	3.52188941	0.00042848	0.00772113
Zfp651	330.051389	1.06750332	0.23517573	4.53917292	5.65E-06	0.00023112
Camk2n2	232.312105	1.06685299	0.24781655	4.30501103	1.67E-05	0.0005707
Mlf1	152.626087	1.06676752	0.35352207	3.01754147	0.00254834	0.02893785
Hivep2	441.045349	1.0664097	0.37798437	2.82130636	0.00478285	0.04551904
Best3	20.22468	1.06505628	0.42493247	2.50641303	0.01219631	0.08825721
Ppp1r3fos	29.5667773	1.06429652	0.41618278	2.55728147	0.01054938	0.08010422

Gxylt2	42.4534144	1.06406769	0.42790155	2.48671148	0.01289299	0.0913851
Ccdc177	23.0812988	1.06346236	0.43116183	2.46650396	0.01364392	0.09531744
Clstn2	16.1971761	1.06337089	0.43219581	2.46039148	0.01387855	0.09617887
Ikbke	312.87948	1.0628451	0.37622635	2.82501501	0.00472784	0.04510592
Nbl1	40.4333042	1.06257991	0.41637674	2.55196752	0.01071165	0.08096552
Nipal4	51.9413254	1.06227148	0.36437563	2.91531978	0.00355324	0.03683765
9130008F23F	22.6141509	1.06203372	0.4270315	2.48701492	0.012882	0.09134883
Arpc1b	12310.9058	1.06183208	0.19249102	5.51626827	3.46E-08	3.13E-06
Tchh	664.899555	1.06175109	0.40235004	2.63887404	0.00831819	0.0682911
1110019D14I	731.4741	1.06160386	0.20347409	5.21739073	1.81E-07	1.29E-05
Prob1	76.7487237	1.06148867	0.31941736	3.32320281	0.0008899	0.01342276
Map1lc3a	1861.58103	1.0598967	0.21698999	4.88454194	1.04E-06	5.78E-05
Npff	36.095154	1.05656423	0.37759738	2.79812381	0.00514004	0.04789509
Itga5	5863.8855	1.05654679	0.36885743	2.86437717	0.0041783	0.04099481
Parp12	1061.88094	1.05553788	0.27075796	3.89845554	9.68E-05	0.00238963
Stox2	882.105099	1.05511273	0.31085994	3.39417405	0.00068836	0.01111671
Lcat	44.9195042	1.05253417	0.38521413	2.73233533	0.00628871	0.05550268
Gpr83	17.7521201	1.05221123	0.430473	2.4443141	0.01451279	0.0993907
1810010H24I	82.4933452	1.05124078	0.34540734	3.04348127	0.00233858	0.0273328
Gm13125	16.5800187	1.0512337	0.43010889	2.4441106	0.01452097	0.0993907
Srgap1	1157.64462	1.0509276	0.28436092	3.69575253	0.00021924	0.00458088
4921531C22F	49.9089671	1.05054552	0.37159285	2.82714138	0.00469656	0.0449177
Dgat2	283.320414	1.05004652	0.38036375	2.76063776	0.00576886	0.05240162
Ptpv	1254.37928	1.04885117	0.26582525	3.94564165	7.96E-05	0.00204909
Tusc1	153.363573	1.04740909	0.3003246	3.48759005	0.00048739	0.00845924
Pros1	6140.76847	1.04705777	0.35079882	2.98478136	0.00283781	0.03143219
Phldb2	1346.75645	1.04583065	0.30364865	3.44421313	0.00057272	0.00962857
Specc1	871.826906	1.04543405	0.29879259	3.49886204	0.00046725	0.0082383
Plxna2	1033.1406	1.04371999	0.29387607	3.55156506	0.00038295	0.00706206
Mlana	279.945567	1.04355175	0.26557961	3.9293369	8.52E-05	0.00216091
Tmem179	41.5370551	1.04303301	0.40348794	2.58504133	0.00973673	0.07593577
Vrtn	37.37359	1.04299624	0.42881868	2.4322547	0.01500515	0.10149853
Slc2a6	71.6447357	1.04181316	0.40183636	2.59263036	0.00952451	0.0746927
Btg2	7033.62065	1.04099428	0.1890047	5.50776926	3.63E-08	3.25E-06
Foxd1	134.798412	1.04089344	0.42023685	2.47692091	0.01325213	0.09312418
Asb11	64.065595	1.03991924	0.38959275	2.66924692	0.00760215	0.06393786
Trpv5	10.8487956	1.03801508	0.39100122	2.65476172	NA	NA
Gfap	16.9165673	1.03800298	0.43018872	2.41290143	0.0158261	0.10540114
Srrd	960.443842	1.03715876	0.22105754	4.69180443	2.71E-06	0.00012918
Adh4	25.5751637	1.03599114	0.40153863	2.58005347	0.0098785	0.07677191
4930447C04F	966.537031	1.03594702	0.35537641	2.91506975	0.00355609	0.03684261

Magee1	269.321165	1.03592771	0.25013349	4.14149945	3.45E-05	0.00104239
4933408B17F	55.3564616	1.03455526	0.37371914	2.76826938	0.00563549	0.05155143
Ribc2	22.7866605	1.03342212	0.41664249	2.480357	0.01312509	0.09256078
St14	9915.40101	1.03322646	0.20383575	5.06891682	4.00E-07	2.53E-05
Tcf7l2	705.38542	1.03207084	0.2498621	4.13056178	3.62E-05	0.00108015
Ncoa7	760.086427	1.03200204	0.34133887	3.02339442	0.00249956	0.02856039
B2m	3249.17212	1.03156567	0.24699818	4.17641	2.96E-05	0.00091703
Mmp19	440.20025	1.03024144	0.2723089	3.7833558	0.00015473	0.00347211
Arx	12.8844683	1.02997653	0.42964787	2.39725741	0.01651831	0.10849241
Hc	72.2874713	1.02991398	0.38984311	2.6418679	0.00824502	0.06794823
4930563E22F	88.0274221	1.02936709	0.33916886	3.03496932	0.0024056	0.02791754
Cryga	94.9517558	1.02662121	0.3571003	2.87488194	0.00404179	0.04011092
Tanc2	466.656856	1.02539552	0.2865117	3.5788958	0.00034505	0.00654373
Cebpe	21.580533	1.02472927	0.43219914	2.37096553	0.01774169	0.11405579
Ltk	867.196163	1.02461018	0.28815986	3.55570056	0.00037697	0.00698485
Dlx2	23.0821417	1.02453135	0.43140427	2.3748753	0.01755488	0.11322934
Htra1	5484.6798	1.02358788	0.43157326	2.37175929	0.01770362	0.11385814
AU040972	82.0893427	1.02353462	0.39367365	2.59995713	0.00932354	0.07382402
Rbm47	1150.00495	1.02221452	0.22255458	4.59309577	4.37E-06	0.00018898
Dlk2	15.823452	1.02159765	0.43185958	2.36557829	0.01800194	0.11529988
Gpr143	93.3586427	1.02139612	0.32354552	3.1568854	0.00159464	0.02048849
Pde8b	154.396838	1.02136693	0.29610972	3.44928534	0.00056207	0.00949054
Ptprq	6.74724893	1.02132564	0.4181215	2.44265274	0.01457976	0.09966146
Egr4	17.8509351	1.02107255	0.43173586	2.36503995	0.01802813	0.11537259
Inpp4b	8.96130566	1.02081819	0.39753849	2.56784742	0.01023322	0.07875048
Tpm2	666.25021	1.0207298	0.34831952	2.93044098	0.00338481	0.03554168
Slc7a15	7.65608539	1.02049881	0.40711633	2.50665163	0.01218808	0.08825721
Sort1	2043.31771	1.01970898	0.23998106	4.24912277	2.15E-05	0.00070409
Hmga2-ps1	41.4228652	1.01964476	0.4303173	2.36951842	0.01781127	0.11436128
Xkr6	23.715775	1.01923699	0.42347773	2.40682546	0.01609186	0.10653235
9330020H09I	81.1404205	1.01897188	0.35841714	2.84297756	0.00446942	0.04317017
Scap	2986.28277	1.01861658	0.22617016	4.50376213	6.68E-06	0.00026758
Wnt8a	10.2230872	1.01826816	0.41429254	2.45784814	0.01397723	0.09673336
1700010I14R	69.9861615	1.01803784	0.35291054	2.8846909	0.00391798	0.03943956
Arhgap10	1065.2569	1.01799573	0.33760075	3.01538346	0.00256655	0.02909063
Nrip2	9.72683835	1.01752246	0.41401792	2.45767733	0.01398388	0.09673632
P2rx1	56.5027534	1.01543706	0.37111951	2.7361457	0.00621635	0.05492639
Klhl34	168.456354	1.01426745	0.37047906	2.73771869	0.0061867	0.05478638
Vit	24.8305035	1.0139925	0.43151103	2.3498646	0.01878024	0.11844095
Spsb4	54.8692936	1.01312223	0.35671389	2.84015359	0.00450918	0.04341937
Trp53inp2	2896.38536	1.01244384	0.28186631	3.59192926	0.00032824	0.00630957

E030030I06R	166.606142	1.01175173	0.34299214	2.94978104	0.00317999	0.03410659
Gm3230	18.7975003	1.01168282	0.42652664	2.37191001	0.0176964	0.11385814
Tas1r1	209.701243	1.01109243	0.25058577	4.03491553	5.46E-05	0.00149022
Serping1	1760.97257	1.01108537	0.2460456	4.10934145	3.97E-05	0.00116865
Aspa	1877.05246	1.0092371	0.43156044	2.3385765	0.01935736	0.12094269
Ssh2	2012.00188	1.00885321	0.25370935	3.97641322	7.00E-05	0.00183782
Gm694	295.642033	1.00750964	0.34654245	2.90731959	0.00364541	0.03746841
Scarf1	482.662276	1.00544588	0.32392476	3.10394885	0.00190956	0.02366185
Aqp7	27.2219453	1.00515446	0.41690921	2.41096724	0.01591028	0.10573319
Wnk4	65.8567417	1.00458616	0.33350213	3.01223313	0.00259333	0.02930383
Cdkn2d	55.4401447	1.00097958	0.34808568	2.87567009	0.00403171	0.04005276
Tmem198	56.3033415	1.00093685	0.38017462	2.6328345	0.00846756	0.06908658
Oxct2b	8.53225938	1.00083447	0.40953146	2.44385248	0.01453137	0.09941808
Tssk6	9.51894633	1.00081383	0.42635535	2.34737015	0.01890646	0.11898599
Tcp11l2	318.493789	1.00067512	0.27527822	3.63514092	0.00027783	0.00548289
1700003F12F	12.5314603	1.00066434	0.4317574	2.31765417	0.02046812	0.12575418
Coch	193.262353	1.00001274	0.41364688	2.41755175	0.01562531	0.104332
Gdf7	25.7373795	0.99991934	0.43054074	2.32247321	0.02020747	0.12479998
Zscan4d	74.2747239	0.99989193	0.43223878	2.31328602	0.02070692	0.12673885
Cndp2	22401.0064	0.99898729	0.25929614	3.85268861	0.00011683	0.00276528
Spata45	10.6453329	0.99888946	0.40359137	2.47500201	0.01332354	0.09358375
Saa3	1351.03377	0.9985613	0.37835836	2.63919448	0.00831033	0.0682911
Fgd6	1618.16153	0.99819929	0.31957939	3.12347828	0.00178727	0.02241439
Cited2	3189.42782	0.99774669	0.30489291	3.27244967	0.0010662	0.01533807
Mfsd7c	733.764727	0.99767556	0.32314324	3.08740963	0.00201909	0.02460728
Agap2	48.7545522	0.99755367	0.3982392	2.50491082	0.01224823	0.08848489
Grap	43.1637476	0.99655639	0.43227129	2.30539575	0.02114442	0.12859479
Adcy7	64.356704	0.99471281	0.40418597	2.46102754	0.01385397	0.09609417
Rhoc	1701.27827	0.99349715	0.29011295	3.42451841	0.00061589	0.01024628
Gm6583	11.277428	0.99230569	0.42290766	2.34638856	0.01895633	0.11916009
Emilin2	139.698702	0.99215958	0.34610255	2.86666361	0.00414824	0.04075667
Itga1	25.3807251	0.99215012	0.42124003	2.35530823	0.01850735	0.11732888
Cyp1b1	46.5653953	0.99144866	0.42665197	2.32378785	NA	NA
Mfsd2b	285.951317	0.99077308	0.2458683	4.02969016	5.59E-05	0.00151312
A630001G21	119.952735	0.99072495	0.33738803	2.93645555	0.00331986	0.03512756
Arhgef6	190.043097	0.9905339	0.34740505	2.85123633	0.00435496	0.04227463
Scn1b	361.198981	0.98949135	0.21544702	4.59273626	4.37E-06	0.00018898
Hpse	268.553883	0.98878719	0.41715202	2.37032815	0.0177723	0.11420541
Slc5a8	13.7247713	0.98862861	0.43160703	2.29057577	0.02198796	0.13131136
Tlr2	677.81859	0.9877732	0.20745923	4.76128818	1.92E-06	9.50E-05
Mael	302.092925	0.985651	0.36849464	2.67480419	0.00747729	0.06311104

Tmem151a	34.3022013	0.98564496	0.39724349	2.48121107	0.01309368	0.09249001
Tmem88	222.616317	0.98535313	0.28228956	3.49057594	0.00048198	0.00840866
Fam83h	535.971305	0.98523361	0.27732389	3.55264602	0.00038138	0.0070437
Efna5	143.376942	0.98521998	0.39536984	2.4918946	0.01270637	0.09048042
Parp9	1703.10948	0.9850896	0.25114025	3.92246803	8.76E-05	0.00219837
Qrich2	43.9052549	0.98478448	0.39143087	2.51585801	0.0118743	0.08670295
Xlr	204.930274	0.9839882	0.39429278	2.49557754	0.01257523	0.08995278
Aadac	36.6547564	0.98373377	0.41462346	2.37259555	0.01766359	0.11369476
Akr1c12	13.3396387	0.9831469	0.42170865	2.33134156	0.01973536	0.12261467
Vash2	190.285694	0.98310933	0.35654711	2.75730557	0.00582799	0.05265658
Ptger1	6.78011836	0.98274701	0.41564946	2.36436492	0.01806101	0.11548799
Scgb3a1	19.1968408	0.98136147	0.42624486	2.30234207	0.02131589	0.12914425
Foxl2	37.3346232	0.98120118	0.43218377	2.27033323	0.02318737	0.13612187
Fam179a	13.19885	0.98085195	0.42534193	2.30603167	0.02110886	0.12859479
Lysmd2	265.518678	0.98052881	0.28886269	3.39444598	0.00068768	0.01111671
Slc35d3	58.6079559	0.98045413	0.38215015	2.56562539	0.010299	0.07897423
AA415398	33.0390711	0.98032475	0.40894416	2.39720934	0.01652048	0.10849241
Tmem54	8.35183406	0.97993587	0.4140366	2.3667856	0.01794332	0.11501922
Stk32a	60.067736	0.97982301	0.41165921	2.38017997	0.01730418	0.11196948
Lpxn	21.5163353	0.97885113	0.41839768	2.3395233	0.01930837	0.12075076
B3gnt6	19.2865403	0.97881689	0.43102146	2.27092381	0.02315159	0.13596314
Tmem253	140.08091	0.97865363	0.32884983	2.97598951	0.00292045	0.03213457
Cdh24	456.596142	0.97865352	0.25850968	3.78575199	0.00015324	0.0034671
Sct	47.8118966	0.97864037	0.42241886	2.3167535	0.02051716	0.12577215
Ephx4	43.9510585	0.97795754	0.41782775	2.34057584	0.01925403	0.12063633
Grm8	55.99507	0.97734801	0.43210535	2.26182808	0.02370803	0.13792874
Limch1	262.364466	0.97657712	0.27887456	3.50185083	0.00046204	0.00816495
Lgals1	4381.56661	0.97649667	0.28997905	3.3674732	0.0007586	0.01198559
Prmt2	186.538208	0.97614897	0.26754693	3.64851496	0.00026376	0.00528575
Htra4	23.8895407	0.97594811	0.40925036	2.38472146	0.01709206	0.11102697
Crygc	89.4176517	0.97541932	0.43103681	2.2629606	0.02363812	0.13757349
Galnt6	9401.15268	0.97450949	0.37501774	2.59856908	0.00936132	0.07382763
Gm6268	6.44746692	0.97442464	0.40819837	2.38713505	0.01698025	0.1103468
Daam2	6.82630785	0.97396505	0.41533823	2.34499254	0.01902746	0.11950567
Lyl1	14.9992958	0.9734834	0.43226522	2.25205117	0.02431904	0.14006865
Hoxa7	44.184265	0.97259117	0.39942947	2.43495097	0.01489381	0.10106267
Tuba3b	407.344636	0.97243084	0.37861759	2.56837205	0.01021774	0.07875048
Gc	808.115509	0.9715796	0.42014233	2.3125011	0.02075008	0.12684142
Plcg2	5766.12765	0.97154184	0.24451559	3.97333291	7.09E-05	0.00185862
Tlr3	21.0818044	0.97147163	0.42551374	2.28305584	0.02242708	0.13303641
Fcgr2b	379.247723	0.9711586	0.37107544	2.61714598	0.00886684	0.07126008

1700042G15I	38.7127788	0.97082556	0.43045129	2.2553668	0.02411031	0.13922744
Arhgap31	37.423217	0.97016405	0.39424762	2.46079875	0.01386281	0.0961126
Tap1	394.158863	0.97013765	0.35283322	2.7495644	0.00596745	0.05348696
Ggn	11.0564142	0.97004488	0.43106398	2.25035011	0.02442673	0.14048079
Lats2	442.57694	0.96873031	0.34283465	2.82564882	0.0047185	0.04507882
Efemp1	111.149685	0.96871029	0.38877755	2.4916827	0.01271396	0.09048042
Mras	4168.85806	0.96731648	0.18350231	5.27141312	1.35E-07	9.98E-06
Hoxb13	191.726122	0.96722165	0.36883362	2.62237931	0.00873182	0.07048698
D730001G18	38.0444874	0.96694945	0.38662239	2.50101771	0.0123837	0.0891569
Celf3	18.9983044	0.96632848	0.43197158	2.23701863	0.02528512	0.14352754
Vpreb1	164.569566	0.96572402	0.30093432	3.20908572	0.00133158	0.01795956
Cnksr2	112.172286	0.96524693	0.39594463	2.43783312	0.01477559	0.10047016
I830077J02Ri	14.9096247	0.96384256	0.43101627	2.23620923	0.02533807	0.14362693
Cryaa	7.84872568	0.96264861	0.42053311	2.28911489	0.02207268	0.13171612
Pcsk1n	100.638577	0.96258592	0.30788888	3.12640688	0.00176957	0.02222333
F8	107.725041	0.9625049	0.34558963	2.78510933	0.00535097	0.04959052
Arhgef33	115.959696	0.96243783	0.31056928	3.09894731	0.0019421	0.0239526
Tmem42	158.456736	0.96230758	0.2657819	3.6206663	0.00029385	0.00575541
Lacc1	603.729752	0.96152787	0.37456101	2.56707946	0.01025591	0.07876795
Tmem56	198.59609	0.96148223	0.41168611	2.33547408	0.01951867	0.12165724
Prr15	64.5881426	0.95967352	0.41827423	2.29436443	0.02176957	0.13055868
Dkk1	53.8602977	0.95940149	0.42337628	2.26607285	0.02344692	0.13676785
Spsb2	297.812267	0.95669134	0.28392906	3.36947312	0.00075312	0.01191432
4930550L24F	201.771991	0.95663238	0.27216257	3.51493003	0.00043987	0.00786255
Ccdc109b	10.591275	0.95619447	0.40230402	2.37679569	0.01746376	0.11278194
Mmp14	884.580218	0.9556372	0.25109653	3.80585581	0.00014131	0.00327253
Lhx5	7.70288873	0.95522445	0.42282802	2.25913233	0.02387515	0.13838335
Ddx4	801.089375	0.95519422	0.336189	2.8412417	0.00449382	0.0432983
Cd68	2308.63611	0.95507833	0.27381811	3.48800272	0.00048664	0.00845563
Hoxc9	47.2872119	0.95456546	0.39423672	2.42130023	0.0154651	0.10349545
Cldn19	268.289194	0.95424988	0.3872052	2.46445521	0.01372217	0.09547055
Dyrk1b	499.552188	0.95378597	0.2434366	3.91800559	8.93E-05	0.00223226
Casr	195.145481	0.95296028	0.35848449	2.65830268	0.00785353	0.06555571
Sox4	374.007672	0.95215982	0.28650149	3.3234027	0.00088926	0.01342276
Elovl7	3342.38279	0.95208059	0.16566062	5.74717512	9.07E-09	9.28E-07
Col5a2	299.097796	0.95191095	0.41004144	2.32149937	0.02025991	0.12502454
1110006O24I	37.7839157	0.95152541	0.39713701	2.39596259	0.01657678	0.10881618
Il13ra1	1169.97951	0.95152233	0.24038671	3.95829848	7.55E-05	0.00195973
Dsg3	9.27536498	0.95142322	0.42369291	2.24554907	0.02473291	0.1416315
Ppp1r18	2057.05435	0.95132341	0.19771238	4.81165327	1.50E-06	7.89E-05
Fgfr3	124.381564	0.95008399	0.43113008	2.20370609	0.02754502	0.15125446

Fam214a	1026.84585	0.94979851	0.20914879	4.54125743	5.59E-06	0.00022945
Slit1	46.8240174	0.94943106	0.38555753	2.46248869	0.01379765	0.09574623
Cln6	1710.21609	0.94922178	0.22391177	4.23926702	2.24E-05	0.00073417
Sgce	120.781654	0.94755554	0.40746874	2.32546772	0.02004696	0.12425283
Pdgfrb	353.419977	0.94753823	0.37503602	2.52652595	0.01151969	0.08486152
Gja6	10.0291721	0.94711796	0.42123678	2.2484218	0.02454931	0.14102928
Dnaic2	332.264603	0.94708812	0.33163232	2.85583785	0.00429234	0.04190221
Slc28a3	136.502405	0.94674314	0.42599895	2.22240719	0.0262558	0.14655561
Al317395	62.2828389	0.94575266	0.42868173	2.2061884	0.02737081	0.15061694
Ube2cbp	524.114284	0.94573289	0.23228142	4.07149611	4.67E-05	0.00133779
Unc79	6.92164177	0.94571212	0.4178547	2.26325593	0.02361992	0.13751903
Helz2	126.142251	0.94563366	0.30714479	3.07878786	0.00207845	0.02503634
Zbp1	146.6293	0.94558792	0.36984579	2.55670863	0.01056677	0.08019708
Col9a2	3098.43186	0.94499559	0.42411268	2.22817105	0.02586911	0.14538871
Fgfbp3	120.662175	0.9444933	0.35450127	2.66428749	0.00771516	0.06464356
Hoxd8	149.257191	0.94421591	0.36370627	2.59609467	0.00942901	0.07413069
Pkp1	6.2983623	0.94335607	0.41481779	2.27414563	0.02295723	0.1351279
Miat	25.0212342	0.94303557	0.4267097	2.2100167	0.027104	0.14948249
Smyd1	660.562232	0.94229843	0.2865683	3.2882159	0.00100824	0.01466718
Cyp4v3	10.9257591	0.94191211	0.43129766	2.18390264	0.0289694	0.15607012
Gm3143	105.719772	0.94151136	0.38442859	2.44911898	0.01432061	0.09845545
Slc2a2	9.98612848	0.94138226	0.4209522	2.23631627	0.02533106	0.14362693
Msl3l2	288.009561	0.9409623	0.33181089	2.83583911	0.00457055	0.04395582
Jph4	42.7163419	0.93953762	0.40496342	2.32005552	0.02033787	0.12530677
Rab9b	8.30388869	0.93894838	0.41594059	2.25740985	0.02398248	0.13873104
Cyr61	1364.49304	0.93861902	0.38596458	2.43187863	0.01502074	0.10155979
3100003L05F	7.65432952	0.93687109	0.40612612	2.30684766	0.02106331	0.12840282
Aoah	1877.3786	0.93670302	0.31602455	2.96401978	0.00303649	0.03302127
Cap2	741.606903	0.93650064	0.39188319	2.38974433	0.0168601	0.10998951
Car5b	238.100103	0.93622833	0.34216687	2.73617471	0.0062158	0.05492639
Kctd4	7.35975277	0.9357929	0.41549541	2.25223405	0.02430749	0.14005398
MacroD2	709.243558	0.93469577	0.26140917	3.57560431	0.00034942	0.00658646
Adam8	85.5539588	0.93459074	0.31304128	2.98551913	0.00283097	0.0314012
Dbn1	233.511899	0.93448379	0.27890744	3.35051584	0.00080661	0.01257677
Rian	18236.717	0.93424719	0.22764805	4.10391028	4.06E-05	0.00118778
Bmp15	37.0869945	0.93413448	0.42667273	2.18934657	0.02857166	0.1549824
Ophn1	499.932735	0.93298111	0.220614	4.22902032	2.35E-05	0.00076042
Pcdhgb5	50.0467831	0.93239953	0.40141758	2.32276704	0.02019167	0.12475195
Gpr153	220.404795	0.93105342	0.30528487	3.04978567	0.00229005	0.02697919
Trim30d	28.5140076	0.93090581	0.41412062	2.24790983	NA	NA
Dcaf12l1	1085.56906	0.93016659	0.319863	2.90801557	0.0036373	0.03740985

Aamdc	1151.07429	0.92968142	0.28927287	3.2138562	0.00130965	0.01773421
Slc25a40	1686.52539	0.9283713	0.229707	4.0415456	5.31E-05	0.00145636
Six2	25.1510653	0.92815413	0.42930061	2.16201444	0.03061706	0.16156293
Mbnl3	423.037199	0.92786799	0.35112367	2.64256747	0.00822801	0.0679215
Ube2a	4710.63612	0.9274715	0.15577567	5.953892	2.62E-09	3.08E-07
Pik3cd	1581.67149	0.92703687	0.24019847	3.85946209	0.00011364	0.00269797
B930059L03F	37.2288489	0.92682713	0.41727928	2.22111945	0.02634287	0.14672565
Als2cr11	40.8225038	0.92662153	0.413753	2.23955238	0.02512	0.14298722
Tbx18	369.295264	0.92626681	0.35694867	2.59495798	0.00946025	0.07433872
Romo1	1813.91285	0.92602246	0.24469163	3.78444683	0.00015405	0.0034671
9130023H24I	208.118872	0.92586916	0.26498861	3.49399605	0.00047585	0.00833324
Topaz1	58.5281363	0.92454179	0.37975044	2.4346036	0.01490811	0.10106267
Clmp	788.461171	0.92453116	0.36131703	2.55878102	0.01050399	0.07998991
Oprl1	52.5920763	0.92433186	0.38800977	2.3822386	0.01720774	0.11162749
Wdr64	237.288106	0.9241534	0.36002529	2.56691248	0.01026085	0.07876795
Fndc5	63.4382257	0.92339617	0.40849946	2.26045872	0.0237928	0.13819502
Slc6a12	26.5504318	0.92333504	0.41901906	2.20356336	0.02755507	0.15125621
Slc16a4	95.0658676	0.92330016	0.42559234	2.16944728	0.03004874	0.15962936
Traf3ip3	23.0929085	0.92257465	0.43215344	2.13483122	0.0327748	0.16899234
Galnt16	942.358948	0.92252773	0.38091797	2.42185407	0.01544155	0.10346038
Agbl2	82.5148301	0.92135606	0.37712041	2.44313495	0.01456029	0.09957216
Ctsf	1695.75168	0.9212565	0.34010033	2.70877861	0.00675314	0.05860383
Bcl2	22.092674	0.92079037	0.42454248	2.16890046	0.03009024	0.15970422
Kcns1	16.8471677	0.92035368	0.42804422	2.15013691	0.03154439	0.16500059
Gpc4	3371.19653	0.91988491	0.22626682	4.06548733	4.79E-05	0.0013528
Tgfb2	44.8134452	0.91969272	0.40020534	2.29805212	0.02155882	0.12989588
Ccdc122	110.01205	0.91953105	0.36774417	2.50046397	0.01240307	0.08917065
Plcx1	137.685694	0.91870795	0.31055614	2.9582669	0.00309374	0.03345672
Btn1a1	24.3062364	0.91846422	0.42841175	2.14388196	0.03204235	0.1664297
Eva1b	1178.25943	0.91742785	0.25674728	3.57327195	0.00035255	0.00662114
Synm	613.351033	0.91705248	0.32233154	2.84505972	0.00444031	0.04294232
Nefl	3036.4386	0.91646966	0.3316018	2.7637656	0.00571386	0.05199309
Atg14	7536.77231	0.91643706	0.19210997	4.77037743	1.84E-06	9.17E-05
Scn11a	14.3236077	0.91548261	0.43144792	2.12188441	0.03384745	0.17252102
Cfh	244.502321	0.91548184	0.28893466	3.16847358	0.00153242	0.01985579
Cdh18	17.3791961	0.91547041	0.42476696	2.15522983	0.03114385	0.16325438
Adcy10	6.50384311	0.91546287	0.4039077	2.26651501	0.02341987	0.13671261
Nefh	2534.93637	0.91485183	0.29990607	3.0504612	0.0022849	0.02693898
Slmo1	192.780335	0.91456472	0.37505278	2.43849603	0.01474852	0.10046178
Atp8b1	35.6898796	0.91439146	0.42285353	2.16243071	0.03058499	0.16144848
Slc30a2	3051.64214	0.91427824	0.28296504	3.23106427	0.0012333	0.01697938

Sidt2	4055.98326	0.91419534	0.19810326	4.61474147	3.94E-06	0.00017455
Isoc2b	79.9507678	0.91416439	0.41180408	2.21990123	0.02642547	0.14692261
Gm4984	133.522166	0.91346139	0.29665264	3.07922895	0.00207537	0.02501868
Ceacam10	270.510047	0.91277008	0.38151781	2.39247042	0.01673538	0.10950542
Gm15910	20.5152378	0.91273755	0.42569632	2.14410485	0.03202449	0.1664297
Gm10548	8.95129553	0.9126924	0.4281479	2.13172226	0.03302969	0.16974377
Rasgrf2	27.7785487	0.91169955	0.43035058	2.11850433	0.03413238	0.17343717
Prrt2	282.561717	0.91147511	0.30658664	2.97297723	0.00294926	0.03241272
Ccdc79	55.6777338	0.91062333	0.41936924	2.17141183	0.02990006	0.15907484
Rnd1	920.54846	0.91053743	0.25042226	3.63600832	0.0002769	0.00547141
Bmp8a	117.868539	0.91006178	0.36695236	2.4800543	0.01313624	0.09256078
Tmem30b	337.357939	0.90986941	0.31541629	2.88466204	0.00391834	0.03943956
Gm10767	60.9567275	0.90984049	0.36923894	2.4640968	0.0137359	0.09547055
Mmp28	41.0366862	0.90837027	0.39395173	2.30579077	0.02112233	0.12859479
Gstt1	108.435421	0.90803578	0.43097922	2.10691314	NA	NA
Akap5	338.912747	0.90761942	0.27579691	3.29089765	0.00099868	0.0145553
Tnfrsf8	585.692063	0.90741663	0.35460246	2.5589688	0.01049832	0.07998991
Gsdmd	952.524141	0.90726493	0.24470232	3.70762706	0.00020921	0.00444458
Bpifb5	231.593714	0.90691296	0.30585475	2.96517533	0.0030251	0.03298976
Dlk1	77.4406482	0.90613893	0.43217237	2.09670723	0.0360195	0.18008508
Timd4	8.66003807	0.90492036	0.4246045	2.13120764	0.03307204	0.16974956
0610038B21F	8.31371787	0.90477207	0.41959439	2.15630162	0.03106012	0.16312595
Rab36	31.2900746	0.90468998	0.40427256	2.23782186	0.02523267	0.14341894
Arl14ep1	8704.11605	0.90174589	0.19754047	4.56486666	5.00E-06	0.00021064
Fam212b	245.481267	0.90131391	0.32773321	2.75014518	0.00595689	0.05342303
Zfhx2	4925.17398	0.90103403	0.24907605	3.61750569	0.00029746	0.00580393
Rragd	4963.81962	0.90089393	0.18539081	4.85943136	1.18E-06	6.36E-05
Ankrd45	2320.72275	0.90027922	0.3753125	2.39874565	0.01645134	0.10826693
Cox8c	10.9275915	0.89975544	0.43171968	2.08411961	0.03714929	0.18276134
1600014K23F	8.60064632	0.89964771	0.42803224	2.10182233	0.03556884	0.17860945
Fbxo4	152.430813	0.89934986	0.29156264	3.08458544	0.00203836	0.02480324
Adam12	32.2585154	0.89915192	0.43005604	2.09077849	0.03654792	0.18129403
Drd4	21.0255766	0.89863295	0.43076594	2.08612816	0.03696702	0.18247163
Syt11	520.3323	0.89860182	0.2441461	3.68059055	0.00023269	0.00478655
Rab13	474.246455	0.89822628	0.21397696	4.19777105	2.70E-05	0.00084855
Slc30a4	430.675561	0.89740383	0.23467994	3.82394767	0.00013133	0.0030574
Abca12	11.9227634	0.89711154	0.42961266	2.08818691	0.03678098	0.18215955
Slc30a1	2372.85837	0.89605209	0.1879243	4.76815458	1.86E-06	9.24E-05
Fam184b	59.3986434	0.8957796	0.35612896	2.51532365	0.01189232	0.08670295
1700030F18F	21.4769926	0.89537475	0.42646783	2.09951298	0.0357717	0.17921578
Hapln3	175.265446	0.89524845	0.35246898	2.5399354	0.01108729	0.08281389

Ntf5	329.02729	0.89522862	0.23565578	3.79888252	0.00014535	0.00334369
Lrp4	1362.06626	0.89419319	0.23979806	3.72894257	0.00019228	0.00416373
Thbs2	40.3958008	0.89343677	0.43202422	2.06802476	0.0386377	0.18764984
Spata22	127.06786	0.89303709	0.37076013	2.40866537	0.01601097	0.10608718
Sag	18.039329	0.89259539	0.42656609	2.09251369	0.03639259	0.18092748
Plip	76.004035	0.89216094	0.41590867	2.14508858	0.03194577	0.16631691
Hdc	15.7712609	0.89201808	0.43197207	2.0649902	0.03892393	0.18833006
Tlx1	91.4723018	0.89185032	0.36339969	2.45418569	0.0141204	0.09750729
Tgfb1i1	11.2624071	0.89143569	0.43157693	2.06553136	0.03887275	0.18832092
Cib1	4083.91856	0.89137477	0.21907214	4.06886404	4.72E-05	0.00134556
Nr0b2	23.052778	0.89051898	0.43019504	2.07003544	0.03844903	0.18720125
Agrp	99.8730516	0.8903893	0.35397525	2.51539986	0.01188974	0.08670295
Ms4a5	15.6101476	0.89007061	0.43190115	2.06082018	0.0393202	0.18954383
Phlda1	145.562741	0.88916666	0.39847927	2.23140005	0.02565464	0.14481137
Gm867	325.345906	0.88910687	0.26704008	3.32948848	0.00087006	0.01323899
AA543401	30.9610427	0.88867991	0.40780572	2.17917473	0.02931869	0.15701257
Hmgn3	266.606526	0.88828911	0.37137251	2.39190864	0.01676101	0.10956306
Abca3	1515.45337	0.88826615	0.35845583	2.47803515	0.01321081	0.09291784
Ambp	26.4778531	0.88506936	0.43208999	2.04834496	0.04052621	0.19278773
Cyp4f39	578.882813	0.88471999	0.30460132	2.90451792	0.00367819	0.03768087
Hsf5	111.183423	0.88458018	0.39749236	2.2254017	0.02605428	0.14612821
Hoxa11	14.2287051	0.88400018	0.41507532	2.12973439	0.03319355	0.17019217
H2-Oa	166.977621	0.88379082	0.38568978	2.29145508	0.02193711	0.13110836
Serpina3n	36.4499045	0.88312809	0.39468469	2.23755347	NA	NA
Gpx1	43210.6959	0.88268001	0.22624939	3.90135857	9.57E-05	0.0023649
Hap1	11735.1363	0.88256959	0.16872199	5.23091041	1.69E-07	1.21E-05
BC020402	67.6114609	0.88239807	0.39695681	2.22290698	0.02622207	0.14641991
Fos	210.005262	0.88201595	0.42380728	2.08117225	0.03741814	0.18361929
Gm8267	17.0306704	0.88190078	0.42769464	2.06198701	0.03920897	0.1891836
AA792892	28.1828103	0.88055467	0.41402613	2.12680939	0.03343592	0.17115275
Trim62	254.137911	0.87993838	0.42169572	2.08666664	0.03691828	0.18247163
Opalin	4.61808845	0.87963247	0.37157867	2.36728462	0.01791915	NA
Mns1	2328.54237	0.87960617	0.281644	3.12311353	0.00178949	0.0224241
Ppef1	31.8891425	0.87839024	0.42614561	2.06124436	0.03927973	0.18946623
C130046K22f	95.4058577	0.8783615	0.43222376	2.03219164	0.04213426	0.19725327
Itga10	194.212956	0.87829392	0.27934233	3.14414905	0.00166571	0.02114562
Tnnt1	357.87034	0.87813392	0.29328941	2.99408666	0.00275268	0.03073
Henmt1	9.19669239	0.87653319	0.42137253	2.08018588	0.03750849	0.18394509
Sox18	118.256093	0.87608593	0.39560607	2.21454119	0.02679157	0.14837455
Rnasek	2496.76926	0.87585093	0.16702646	5.24378557	1.57E-07	1.14E-05
Fzd6	682.731217	0.87450576	0.28818377	3.03454201	0.00240901	0.02792043

Batf	46.1121658	0.87370159	0.37374408	2.33770017	0.01940281	0.12112929
Mbl2	74.4562674	0.87369439	0.39853415	2.1922698	0.02836003	0.15439601
Zglp1	190.702256	0.8730922	0.28219134	3.09397235	0.00197496	0.02422128
Antxr2	7.33774518	0.87303891	0.41640036	2.09663343	0.03602604	0.18008508
Paqr6	62.6811666	0.8730235	0.39458257	2.21252424	0.02693046	0.14882574
Robo4	51.7269841	0.87219672	0.42655232	2.04475903	0.04087862	0.19369391
Col6a2	14.5011986	0.87215069	0.4000411	2.18015273	NA	NA
Rab39b	55.5973432	0.8712632	0.38661617	2.2535612	0.02422379	0.13982331
D630045M09	1347.27322	0.87098467	0.2975871	2.92682261	0.00342444	0.03587691
Afp	5.57135853	0.87052972	0.36954863	2.35565676	0.01848999	NA
1700030C10F	1214.55442	0.87048423	0.35772534	2.43338712	0.0149583	0.1012697
Zfp36l3	18.3883403	0.87038512	0.43044701	2.02204942	0.04317125	0.20028522
Hoxa3	46.3142527	0.8702991	0.43225107	2.01341107	0.0440714	0.20288762
Itln1	10.3706774	0.86995456	0.42142576	2.06431273	0.03898807	0.18837864
Cdh20	145.638585	0.86969336	0.37422919	2.32395918	0.02012768	0.12460413
Gjb2	30.1328867	0.86964287	0.39700581	2.19050412	0.0284877	0.15479111
Ctsg	10.8836369	0.8694213	0.43146406	2.01504916	0.0438995	0.20227588
Pappa	6.4047072	0.86937547	0.3784854	2.29698547	0.0216196	0.13008842
Gm20324	59.1231171	0.86909657	0.34007356	2.55561348	0.01060008	0.08037144
Mroh6	30.767877	0.86863854	0.4251079	2.04333661	0.04101913	0.19406403
B3gnt8	29.4949792	0.86850899	0.42039999	2.06591107	0.03883688	0.18832092
1700088E04F	32.4872209	0.86811971	0.41941243	2.06984737	0.03846664	0.18722839
Trim72	19.1529913	0.86708974	0.42085529	2.06030378	0.03936951	0.18954651
Josd2	344.113171	0.86690427	0.25487085	3.40134723	0.00067055	0.0108962
4933424G05I	6.35214604	0.8666557	0.41404961	2.09312042	0.03633841	0.18083154
Gm5134	272.529514	0.8660979	0.25921257	3.34126503	0.00083398	0.01284075
Gab2	166.060974	0.8656835	0.40346837	2.1456044	0.03190455	0.16626934
Basp1	1301.97394	0.86534252	0.26028964	3.32453685	0.00088566	0.01339769
Wnt10a	8.86144843	0.86528136	0.42468104	2.03748525	0.04160144	0.19562866
Nfasc	413.517648	0.86473702	0.36213392	2.38789288	0.01694528	0.11024069
Cacng8	24.9747422	0.8646974	0.41391759	2.0890569	0.0367026	0.18188724
Zfpm2	28.8196305	0.86467228	0.43175011	2.00271466	0.04520792	0.20622717
Muc13	41.946644	0.86431801	0.40829765	2.11688215	0.03426985	0.17376278
Gm41	38.9887158	0.86418145	0.39509731	2.18726232	0.02872338	0.15542836
Ephx3	101.446735	0.86417504	0.32914845	2.62548722	0.00865251	0.07008079
Fbxl17	813.84068	0.86391523	0.1862439	4.63862303	3.51E-06	0.0001581
Slc16a6	3795.9944	0.86363075	0.19298375	4.47514752	7.64E-06	0.00029986
Slco2a1	329.479587	0.86315353	0.28512672	3.02726282	0.00246779	0.02832037
Camk2a	378.103382	0.86302214	0.3242832	2.6613224	0.00778344	0.06511041
Hist1h1c	86.2846786	0.86216348	0.32572701	2.64688972	0.00812358	0.06734001
Lrrc75a	682.718144	0.86104834	0.34338037	2.50756427	0.01215665	0.08817538

Crygd	247.126401	0.8600766	0.41637129	2.0656482	0.03886171	0.18832092
A230028O05	73.2297692	0.85998376	0.38064927	2.25925501	0.02386753	0.13838335
Gpr64	73.2323735	0.85930125	0.38523651	2.23058105	0.02570889	0.14501233
Dnah7b	20.7365719	0.85907834	0.41080538	2.09120516	NA	NA
Abhd11os	231.4411	0.85875972	0.29827204	2.87911577	0.00398792	0.03980496
Fam161a	1040.77081	0.85871834	0.21328612	4.02613317	5.67E-05	0.00153351
Cybb	36.2390025	0.85845243	0.41547075	2.0662163	NA	NA
1700018B24f	94.4726265	0.85817576	0.3717008	2.308781	0.02095574	0.12784726
Pla2g4c	322.48999	0.85801354	0.34397656	2.49439541	0.01261719	0.09017
Rilp	51.0850257	0.85776412	0.35698024	2.4028336	0.01626859	0.10742776
Jam3	3302.98646	0.85763427	0.2478158	3.4607732	0.00053863	0.00917435
Tph2	55.8347835	0.85732044	0.37492382	2.28665238	0.02221612	0.13211583
Hist3h2ba	20.0163665	0.85697534	0.4256603	2.01328462	0.0440847	0.20288876
Kif1a	236.621538	0.85616222	0.38512563	2.22307256	0.02621091	0.14641014
Adra2b	147.951824	0.85605366	0.30367232	2.81900461	0.00481728	0.04566662
Thrsp	314.758371	0.85487471	0.39948492	2.1399424	0.03235942	0.16757289
Dtx3l	1350.00385	0.8542576	0.218249	3.91414205	9.07E-05	0.00226103
Abca6	7.4357669	0.85392447	0.37551567	2.27400491	NA	NA
Slc35d1	713.639324	0.85376206	0.24328457	3.50931444	0.00044926	0.00798457
Ntm	20.0835775	0.85329881	0.43125769	1.97862862	0.04785783	0.21367706
Slc26a8	18.9472675	0.85314978	0.43226943	1.97365284	0.04842123	0.21545419
Irf7	11.1899704	0.85271908	0.43049886	1.98076967	0.04761711	0.21296913
Ryr1	924.527713	0.85150276	0.21519144	3.95695458	7.59E-05	0.00196422
Nt5e	132.287056	0.85066878	0.42430582	2.00484824	0.04497927	0.20548551
Icam1	9852.59572	0.85034991	0.26688491	3.18620455	0.00144153	0.01906663
Abhd5	1027.70526	0.84988597	0.1901837	4.46876352	7.87E-06	0.00030663
Sema3f	236.090218	0.84980659	0.30977138	2.74333471	0.00608187	0.05426225
AU021092	15.8330539	0.84932806	0.43227036	1.96480753	0.04943652	0.21809569
Msx2	88.0112158	0.84847669	0.43069066	1.97003735	0.04883409	0.21621299
Tram1l1	85.8647537	0.84807016	0.35898618	2.36240337	0.01815687	0.11599421
Id3	508.883633	0.84804029	0.40376576	2.10032738	0.03570005	0.17902983
Nudt11	451.317724	0.84801121	0.38696203	2.19145845	0.02841863	0.15447924
Gfra4	158.680069	0.84798849	0.35168021	2.41124878	0.015898	0.10570239
Scube1	54.1301781	0.84753774	0.38350578	2.20997383	0.02710698	0.14948249
Crtac1	806.327359	0.84669077	0.34750671	2.43647317	0.01483127	0.10076063
1700034H15l	27.1240372	0.84573171	0.41169548	2.05426523	0.03995003	0.19115781
Zfp36	484.723861	0.84484448	0.2405076	3.51275586	0.00044348	0.00790898
Cnppd1	735.659302	0.84469878	0.22195734	3.80568072	0.00014141	0.00327253
Letmd1	855.23031	0.84433669	0.27305025	3.09223916	0.00198653	0.02430881
Dmrta2	164.904108	0.84432856	0.30159708	2.79952498	0.00511779	0.04777112
Gpr4	361.785877	0.84420003	0.25240893	3.34457275	0.00082409	0.01276443

Ehox (Rhox4t	9.11583124	0.84371184	0.41412539	2.03733426	0.04161656	0.19564059
Pla2g1b	4347.94013	0.84331088	0.22283671	3.78443427	0.00015406	0.0034671
Eme2	183.30636	0.84255254	0.23704381	3.55441702	0.00037882	0.00700476
Cryba2	5.89243304	0.84234673	0.39603405	2.1269553	0.0334238	NA
Pcyox1l	1592.47395	0.84207609	0.22426106	3.75489218	0.00017342	0.00380903
Myo5c	2789.80172	0.84183466	0.27549196	3.05575036	0.00224498	0.02657954
Slc16a14	213.182087	0.84149216	0.30500385	2.75895585	0.00579864	0.05257994
Tmc1	8.57888792	0.84109719	0.42991229	1.95643902	0.05041346	0.2207437
Prdm9	191.082833	0.8407625	0.26633979	3.15672883	0.0015955	0.02048849
Fam171b	162.587261	0.83998001	0.4100225	2.04861933	0.04049935	0.19271892
Mir3072	23.8101532	0.83982819	0.42586942	1.97203213	0.04860594	0.21577978
Cntn2	299.224119	0.83922152	0.34192945	2.45437042	0.01411315	0.0975005
Rgs5	9.69811326	0.83883061	0.42719606	1.9635729	0.04957964	0.21860307
Wdfy4	538.11703	0.83873995	0.40029054	2.0953279	0.03614185	0.18048875
Myt1l	12.2225653	0.83840257	0.43031593	1.94834194	0.05137406	0.22303686
Sh3kbp1	245.489627	0.8381015	0.39198585	2.1380912	0.03250934	0.16806941
Gsn	526.021763	0.83685803	0.29187692	2.86716067	0.00414173	0.04073877
Ank2	482.827837	0.83658234	0.38124063	2.19436826	0.02820895	0.15376001
Tex101	47.6502868	0.835619	0.40598305	2.05826081	0.0395651	0.18991988
Dock8	89.4139964	0.83517118	0.37886278	2.20441603	0.0274951	0.15103366
Steap3	2293.21122	0.83508284	0.43226926	1.93185803	0.05337703	0.22892063
Cybrd1	51.6657334	0.83446532	0.38500485	2.16741508	0.03020322	0.16008529
Apobec2	1643.37915	0.83378886	0.30796127	2.7074472	0.00678029	0.05866229
Ltc4s	23.8983347	0.83305779	0.40729719	2.04533156	0.04082218	0.19366252
Smim24	31.0250009	0.83299949	0.41893711	1.98836406	0.04677144	0.2102359
Shank2	27.2707433	0.83277916	0.42445938	1.9619761	0.04976527	0.21905936
Gpx8	343.301985	0.83241929	0.25236188	3.2985144	0.00097198	0.01424622
P4htm	665.516549	0.83223778	0.30773397	2.70440657	0.00684265	0.05905109
Acacb	5176.04564	0.8319141	0.27467606	3.02870986	0.002456	0.0282618
Gm973	145.578904	0.83131111	0.34821484	2.38735114	0.01697027	0.11032806
Dnah10	446.262751	0.83111161	0.24338458	3.41480804	0.00063827	0.01053687
Gja8	8.95385984	0.8308014	0.42762011	1.94284924	0.05203438	0.22506309
Otud1	1139.27508	0.82913176	0.26488128	3.13020141	0.00174686	0.02197856
Higd1b	9.01753929	0.82809264	0.42361918	1.95480438	0.05060616	0.22118506
Chrne	34.048674	0.82774827	0.39294245	2.10653818	0.03515763	0.17728155
P2rx5	450.059535	0.82745183	0.23591136	3.50746919	0.00045239	0.00803097
Olfml3	77.0335679	0.82715805	0.42831722	1.93118096	0.05346068	0.22915298
BC048502	4.68392966	0.8267026	0.37658052	2.19528774	0.02814296	NA
Calhm2	365.342961	0.82635559	0.27314589	3.02532683	0.00248365	0.02844122
Extl2	672.948261	0.82615201	0.32409262	2.54912321	0.01079941	0.0813139
Kcng2	9.38638284	0.8259939	0.4274261	1.93248352	0.05329985	0.22884208

Kremen2	238.595284	0.82568656	0.32330916	2.55386066	0.01065359	0.08065918
Tmem150a	1171.46578	0.82506178	0.20400092	4.0444022	5.25E-05	0.00144638
Dynll2	11329.1959	0.82504613	0.16828605	4.90264134	9.46E-07	5.35E-05
Marveld2	502.729617	0.8235016	0.21289508	3.86811005	0.00010968	0.00264035
Flt3	6.0832764	0.82250783	0.40081371	2.05209502	0.04016043	0.1916927
Kcna7	73.6472547	0.82179033	0.31973826	2.57019707	0.01016407	0.07848134
Cd200r2	4.66605941	0.82153314	0.38923562	2.11063197	0.03480396	NA
Krt12	6.7049954	0.82153246	0.4145953	1.98152865	0.04753202	0.21277215
Wdr45	2898.64918	0.82108798	0.24678573	3.32712904	0.00087746	0.01329955
Fam149a	34.5637586	0.82100842	0.41946603	1.95727033	0.05031569	0.22060999
1300017J02R	203.208356	0.82097806	0.39363118	2.08565303	0.03701006	0.1824805
Ak4	34853.1751	0.82071838	0.27522262	2.98201644	0.00286357	0.03167305
Prkd2	730.594906	0.82042205	0.2312674	3.54750414	0.0003889	0.00711503
Bmyc	757.662764	0.82028655	0.21624204	3.79337226	0.00014862	0.0033987
Gm10439	27.9932963	0.82012657	0.42040027	1.95082315	0.05107809	0.2224908
Myc	223.161692	0.81933128	0.42389313	1.93287228	0.05325193	0.22884208
Cpsf4l	1481.94836	0.81931138	0.28094472	2.91627256	0.00354241	0.03677437
Ncmap	200.014003	0.81814851	0.30083035	2.7196342	0.00653542	0.05712887
Lrrn4	482.034557	0.81710279	0.38624162	2.11552237	0.03438545	0.17417855
Cish	184.189198	0.81619973	0.34317855	2.37835301	0.01739017	0.11244678
Ncf2	967.740298	0.81580002	0.22050415	3.69970372	0.00021585	0.00452386
Bex2	3074.01741	0.81479439	0.1562285	5.21540175	1.83E-07	1.30E-05
Caps2	136.376509	0.8147921	0.43088182	1.89098739	0.05862603	0.24234273
Ggt5	44.8122135	0.81434004	0.37129072	2.19326795	0.02828808	0.15413732
Bdnf	87.3664358	0.81412993	0.3508206	2.32064463	0.02030603	0.12525197
Amigo3	50.8426839	0.81379208	0.3889913	2.09205725	0.03643339	0.18101461
Chl1	6.06974771	0.81304288	0.40175372	2.02373456	0.04299747	0.19994243
Exoc3l	515.207125	0.81269575	0.26534017	3.06284476	0.00219244	0.02614616
Akr1c21	5.23560899	0.81241479	0.37520281	2.1652684	0.03036714	NA
Rsph3a	33.9814491	0.81206649	0.42203265	1.92417927	0.05433212	0.23090918
Npffr1	9.516712	0.81159702	0.43022059	1.88646718	0.05923203	0.24413488
Cldn18	9.48394511	0.81157523	0.41995392	1.93253401	0.05329363	0.22884208
Fermt1	20.3177131	0.81090736	0.42728635	1.8978078	0.05772141	0.23955847
Samd15	37.1168814	0.81087039	0.37786198	2.14594329	0.0318775	0.16620246
Fam228a	18.7148995	0.81062551	0.4317888	1.87736576	0.06046798	0.24739215
Ssc5d	121.993509	0.81034674	0.27023023	2.99872721	0.0027111	0.03035868
Nxn1l	36.7956448	0.80984527	0.39710534	2.03937139	0.04141298	0.19532548
Sult5a1	154.970589	0.80938164	0.3635783	2.226155	0.0260038	0.14604013
Homez	923.853259	0.80911184	0.31758706	2.54768518	0.01084403	0.08140944
Gucy2c	19.0022407	0.80882098	0.42567565	1.90008748	0.05742164	0.23881336
Mpp4	10.0796947	0.80873731	0.42706244	1.89372149	0.05826199	0.24122262

Gadd45a	862.506918	0.80872676	0.22973636	3.5202384	0.00043116	0.00776036
Sh3pxd2b	481.671206	0.80834862	0.34122697	2.36894706	0.01783881	0.11449083
Pla2g4f	436.37245	0.80819304	0.30779281	2.62576973	0.00864533	0.07005914
Oaf	325.797374	0.80765447	0.27621739	2.92398127	0.00345586	0.03613847
Moxd1	23.3142865	0.80742521	0.41860419	1.92885122	0.05374933	0.22988336
Lpar6	1344.17123	0.80733246	0.33705257	2.39527162	0.01660806	0.10897548
Pik3ip1	616.69024	0.80716669	0.3424811	2.35682115	0.01843212	0.11699507
Spag4	102.128249	0.80627494	0.34790354	2.31752439	0.02047518	0.12575418
Csf2ra	599.848315	0.80615686	0.21869657	3.68618879	0.00022764	0.00470743
Slc16a2	5.84841059	0.80604161	0.39381573	2.04674813	0.04068282	NA
Slc30a10	303.818704	0.80564533	0.27618097	2.91709216	0.00353311	0.03670237
Spata1	163.779545	0.80394518	0.32183123	2.49803349	0.01248844	0.08957921
Gdf11	93.021585	0.80384761	0.33291899	2.41454418	0.01575491	0.1051071
Nagk	1383.05796	0.80381557	0.20801236	3.86426831	0.00011142	0.00266985
Krt79	7.74782215	0.80365533	0.40470387	1.98578611	0.04705708	0.21114854
Prrt4	287.154048	0.8026765	0.30214809	2.6565665	0.00789409	0.0657883
Gpr63	57.385336	0.80202212	0.38403406	2.08841402	0.0367605	0.18211615
Chil1	110.079307	0.80178439	0.37824056	2.11977371	0.03402513	0.17308631
St8sia4	29.1860541	0.80152488	0.40896041	1.95990823	0.05000652	0.21967552
Vsx2	13.4651947	0.80120209	0.43139553	1.85723318	0.06327799	0.25427286
Hoxa9	92.4084357	0.80069268	0.43194312	1.85369937	0.06378218	0.25550662
Lactb	838.950175	0.80022664	0.26851503	2.98019307	0.00288067	0.03183885
P2rx3	224.726887	0.80014499	0.28104845	2.84700022	0.00441333	0.04273459
Gm4858	19.6637128	0.79980135	0.40532677	1.97322607	NA	NA
C920025E04F	12.4387647	0.79954846	0.43225916	1.84969696	0.06435724	0.25681792
Rhov	499.94848	0.7994101	0.21475281	3.72246637	0.00019729	0.00424343
Tescl	27.3244872	0.7987583	0.41986809	1.90240294	0.0571185	0.23832835
Smco3	11.7297851	0.79762614	0.432125	1.84582272	0.06491795	0.25812811
Glb1l	524.843136	0.79740927	0.20517263	3.88652855	0.00010169	0.0024704
Samd4	24.8680898	0.79687668	0.42496287	1.87516778	0.06076965	0.24810416
Mypop	356.285889	0.79678661	0.26175329	3.0440366	0.00233427	0.02731391
Mbp	634.409119	0.79661772	0.22889348	3.48029885	0.00050085	0.00866384
Filip1l	59.6191327	0.79605885	0.38878346	2.04756358	0.04060278	0.19303026
Gal3st4	28.4214035	0.79590755	0.43223394	1.84138142	0.06556568	0.25939598
Rtp4	11.1260417	0.79561416	0.43119802	1.84512481	0.06501939	0.25826729
Adamtsl3	7.55148208	0.79479975	0.42278507	1.87991441	0.06011974	0.24660502
Zhx3	73.4527259	0.7937062	0.34386404	2.30819772	0.02098814	0.12799474
5330426P16F	45.6309695	0.79253492	0.3810154	2.08006011	0.03752002	0.18394509
Gabarapl2	6973.65383	0.79215937	0.27590404	2.87114091	0.00408993	0.04042058
Fam161b	398.799645	0.79201661	0.30745987	2.57599992	0.00999507	0.07748419
Zswim7	1445.07963	0.7919042	0.23617309	3.35306708	0.00079921	0.01247848

Sh3bp1	5654.1673	0.79177736	0.18846843	4.20111401	2.66E-05	0.00083952
Parvb	3322.78048	0.79167491	0.2210579	3.58130104	0.00034189	0.00650758
Tlr5	9.14504111	0.79159423	0.39223926	2.01814125	NA	NA
P4ha3	11.0392891	0.7912438	0.42649424	1.85522738	0.06356376	0.25483194
Pcdhga10	79.4655122	0.79064645	0.37606117	2.10244109	0.03551466	0.17852406
Slc39a2	47.4398571	0.78957317	0.39578706	1.99494437	0.04604895	0.20853442
4930432K21F	379.763414	0.78909034	0.31325809	2.51897837	0.01176959	0.08613123
Rab32	45.7003675	0.78908184	0.37210506	2.12058884	0.03395642	0.17290644
Galnt3	66.7561023	0.78889417	0.42832146	1.84182733	0.06550041	0.25931693
Skint8	31.4881145	0.78882953	0.42956175	1.83635888	0.0663046	0.2610228
Ap5z1	1469.21161	0.78879026	0.18285855	4.31366359	1.61E-05	0.0005514
Tfap2c	5072.41486	0.78878158	0.19638839	4.01643692	5.91E-05	0.00157874
Plekhd1os	8.7702939	0.7885301	0.42257287	1.86602157	0.06203835	0.25096937
B430319G15I	10.4701192	0.78832263	0.42624548	1.84945687	0.06439187	0.25685896
Fam25c	5348.04078	0.78786334	0.31928456	2.46758988	0.01360261	0.09511427
Icam2	63.7192663	0.78764323	0.38113655	2.06656443	0.03877522	0.18825893
Mfsd11	1252.35684	0.78716917	0.19707955	3.99416967	6.49E-05	0.00172285
Bmper	8.94353234	0.78665903	0.42936279	1.83215462	0.06692839	0.26278979
Mafa	219.391512	0.78659436	0.40931628	1.92172753	0.05464005	0.23178183
Efs	3014.49764	0.78638733	0.36009344	2.18384245	0.02897383	0.15607012
Cd3g	2458.68611	0.78632955	0.42320501	1.85803461	0.0631641	0.25397417
4930486L24F	112.200203	0.78619137	0.36052147	2.18070609	0.02920516	0.15671825
Adck3	790.593965	0.78614954	0.19560773	4.01901051	5.84E-05	0.00156678
Hoxb4	97.1149499	0.78614155	0.36281673	2.16677312	0.03025216	0.16029005
Dpcr1	133.174301	0.78532318	0.39080744	2.00948882	0.04448532	0.20400802
Saa4	81.112015	0.7853182	0.37547873	2.09151185	0.03648221	0.18114137
Ddit3	1737.97424	0.78476034	0.32559431	2.41023971	0.01594204	0.10575075
Tcirg1	2006.08541	0.78469133	0.250765	3.12918994	0.00175289	0.02203653
Slc6a17	15.909188	0.78437904	0.43210522	1.8152501	0.06948548	0.26821738
Prdm12	5.41966804	0.78429114	0.40302287	1.94602145	0.05165216	NA
Faxc	159.168031	0.78393898	0.34938729	2.24375356	0.02484826	0.14201225
Pcnxl2	39.2681184	0.78382283	0.39880464	1.96543057	0.04936442	0.21783943
Esam	17.5032327	0.7835537	0.43022946	1.82124603	0.06856947	0.26629597
Nr2f1	74.4422714	0.78243184	0.40143344	1.94909482	0.0512841	0.22283815
Rph3a	17.4494656	0.78210366	0.42731892	1.83025752	0.06721144	0.2633085
Gmip	414.560319	0.78191819	0.24020572	3.25520218	0.00113312	0.01605251
Egfl6	883.074808	0.78102968	0.33945556	2.30083044	0.02140122	0.12925061
Twist1	99.2467893	0.78058118	0.38513276	2.02678466	0.04268444	0.19915563
Adam4	16.8852587	0.78040947	0.42636838	1.83036434	0.06719548	0.2633085
Arsb	330.027085	0.78024284	0.4076273	1.91410839	0.05560631	0.23467483
Al314180	5270.58758	0.77993361	0.22303309	3.49694125	0.00047063	0.00827907

Pip5kl1	128.874058	0.77980439	0.33163513	2.3513926	0.01870329	0.11804173
Ngb	16.7596299	0.77969125	0.42665124	1.82746744	0.06762952	0.26401773
Lbx1	11.5991324	0.77964285	0.42993334	1.81340403	0.06976953	0.26889366
Gm4890	20.3973597	0.77958571	0.43108481	1.8084277	0.07053996	0.27025546
Myom3	630.608891	0.77958383	0.21471504	3.63078352	0.00028256	0.00556218
Hoxd13	246.220521	0.77908635	0.36641724	2.12622735	0.03348433	0.17123146
Tapbp	2945.9755	0.7771911	0.23218181	3.34733836	0.00081592	0.01267563
Isl1	119.756468	0.77675783	0.34725959	2.23682184	0.02529799	0.14352754
Atf5	2509.09447	0.77667537	0.22116985	3.51166921	0.0004453	0.00793229
Ttll3	759.864959	0.77653128	0.28026111	2.77074219	0.00559287	0.05125204
Tmem79	617.544886	0.77638512	0.22409684	3.46450719	0.0005312	0.00910778
Prkce	287.140199	0.77634809	0.28023609	2.77033585	0.00559985	0.0512858
Snhg9	45.5421498	0.77524	0.38432455	2.01714931	0.04367993	0.2017424
Gm13889	145.235612	0.77506612	0.36448162	2.12648887	0.03346257	0.17123146
Clic6	91.5276349	0.77468737	0.38959456	1.98844507	0.04676249	0.2102359
Cdx1	2906.01913	0.7746025	0.42959631	1.80309391	0.07137347	0.27224155
Tnc	23.6576441	0.7744732	0.39283594	1.97149273	NA	NA
2810433D01I	8.5519655	0.77440961	0.42172911	1.83627262	0.06631735	0.2610228
Inha	31.6792479	0.77418888	0.43124733	1.79523171	0.07261679	0.27469319
Abo	47.3036255	0.77362837	0.3855105	2.00676344	0.04477486	0.20497316
Acox1	3053.18606	0.77330181	0.17547514	4.40690228	1.05E-05	0.00038918
D430020J02F	940.887935	0.77326744	0.20444806	3.78221953	0.00015544	0.00348298
Pxdc1	23.793962	0.77293023	0.43227229	1.78806333	0.07376579	0.2772625
Sdcbp2	175.180555	0.7724947	0.29377539	2.62954194	0.00855	0.06954029
Crym	58.0412026	0.77225548	0.3434559	2.24848512	0.02454527	0.14102928
Dusp22	223.55301	0.77176607	0.30796151	2.50604714	0.01220893	0.08830751
Popdc2	15.2981413	0.77175556	0.42587705	1.81215579	0.06996213	0.26937713
Cdk5r2	227.93462	0.77068737	0.34504447	2.23358853	0.02551016	0.14431011
Aph1b	169.250729	0.76997506	0.30088366	2.55904579	0.01049599	0.07998991
Col6a3	35.2582933	0.76986752	0.42256146	1.82190663	NA	NA
Stxbp5l	75.7462395	0.76982963	0.43008997	1.78992696	0.07346565	0.27689394
Irak1bp1	868.277914	0.76969308	0.28701117	2.68175301	0.00732375	0.06199872
Cntnap3	11.4875785	0.76923349	0.42881272	1.7938682	0.07283421	0.27518095
Aqp9	199.612332	0.76871684	0.39662077	1.93816591	0.05260298	0.22676332
Gm15401	6.2767321	0.76846613	0.40366601	1.90371771	0.05694696	0.2379318
4933416C03F	37.41122	0.76826802	0.43210044	1.77798481	0.07540635	0.28085917
B4galt4	584.223772	0.76816785	0.24463572	3.14004777	0.0016892	0.02133939
Xylb	1508.98962	0.76738429	0.18190486	4.21860255	2.46E-05	0.00078496
Pcdhgc4	14.155194	0.766916	0.43007654	1.78320819	0.07455242	0.27913565
Pabpc1l	11.4884897	0.76674416	0.43217392	1.77415645	0.07603727	0.28254616
Matn4	21.7544027	0.7664798	0.42609465	1.79884867	0.07204262	0.27371972

Serinc4	15.9465581	0.766294	0.42857812	1.78799142	0.07377739	0.2772625
Hoxa5	55.6357214	0.76582398	0.43226609	1.77164945	0.07645277	0.28361568
Gm13580	1062.88979	0.76575548	0.20471144	3.74065803	0.00018354	0.00400873
Aoc1	9.20020023	0.76560531	0.40919943	1.87098333	0.06134739	0.24948046
Gng3	661.141742	0.76554871	0.29095789	2.63113235	0.00851009	0.06928816
Ccr4	85.3704919	0.76553149	0.34458376	2.22161218	0.02630953	0.14666206
1110054M08	50.3846046	0.76542382	0.37654304	2.0327658	0.04207619	0.19720519
Tspan2os	50.8681391	0.76519555	0.41820612	1.82970913	0.06729345	0.26331573
2610035D17I	326.03034	0.7649677	0.30344488	2.52094445	0.01170403	0.0858535
Gm6981	40.0320119	0.76382636	0.36188592	2.11068271	0.03479959	0.17581822
Nr2c1	771.203406	0.76367682	0.26009173	2.93618267	0.00332279	0.03512756
Plekho1	163.984321	0.76366197	0.34746785	2.19779176	0.02796395	0.15285321
lspd	187.742564	0.76280515	0.33220681	2.29617554	0.02166585	0.13018763
Fhl2	33.4866953	0.76270195	0.41504719	1.83762709	0.06611737	0.26043346
Greb1	355.942601	0.76249337	0.42445946	1.79638679	0.07243302	0.27446539
Sfrp5	145.632696	0.76239336	0.41208094	1.85010587	0.06429829	0.25672394
Pdcd4	3914.14667	0.76206232	0.2352217	3.23976203	0.00119629	0.01669981
Nudt10	120.532939	0.76166439	0.41127544	1.85195692	0.06403201	0.25617746
Nap1l2	221.487297	0.76141298	0.31039947	2.45300991	0.01416664	0.09773979
Gm1995	25.9840829	0.76077035	0.41094525	1.85126934	0.06413081	0.2564266
Car2	1875.17424	0.76032648	0.17249287	4.40787204	1.04E-05	0.00038837
1110032F04F	284.256228	0.75997226	0.30630018	2.48113554	0.01309646	0.09249001
Plekhm2	1231.11832	0.75985889	0.18187887	4.17782939	2.94E-05	0.00091352
Cd8a	5.30476929	0.75945035	0.38910765	1.95177441	0.05096499	NA
Gm20300	388.887387	0.7581714	0.3301003	2.29679097	0.0216307	0.13008842
Ttc8	429.786081	0.75747009	0.31101884	2.43544764	0.01487338	0.10100257
Eva1c	110.822745	0.7569556	0.39235803	1.92924712	0.05370019	0.22973636
Rhox4c	5.69275171	0.75664398	0.39816636	1.90032123	0.05739098	NA
Heph	76.343473	0.7563095	0.4301238	1.75835309	0.07868745	0.28907832
Celf6	13.9098953	0.75624022	0.43086442	1.75516978	0.07923027	0.29038651
Fam163a	13.9791397	0.75444866	0.43224149	1.74543323	0.08090949	0.29397743
Pced1b	3497.61446	0.75439738	0.20223919	3.73022357	0.00019131	0.00414932
Laptm5	7627.60934	0.75424937	0.25442031	2.96458003	0.00303096	0.03302127
F11r	4815.21289	0.75403641	0.24257517	3.10846494	0.00188062	0.02337771
6330418K02F	62.896023	0.75399771	0.3557829	2.11926349	0.0340682	0.17319211
Havcr2	22.5292172	0.7532017	0.43209404	1.74314299	0.08130864	0.29469694
Lca5l	11.9934559	0.75279654	0.43025309	1.74965979	0.08017704	0.29199838
Whamm	3184.96854	0.75253478	0.20203982	3.72468535	0.00019556	0.0042121
Cmc1	1209.7703	0.75247851	0.25632173	2.93567974	0.00332818	0.03515376
Psap	29582.8658	0.75228538	0.17357715	4.33401158	1.46E-05	0.00051282
Evpl	197.838357	0.75211154	0.2736319	2.74862521	0.00598458	0.05359457

Chka	5782.69059	0.7520256	0.18548724	4.05432522	5.03E-05	0.00139873
Rhox4e	6.04393892	0.75188382	0.40228732	1.86902193	0.06161976	0.24999972
Abca16	19.2236701	0.75113507	0.42484796	1.76800913	0.07705938	0.28511786
Slc38a6	597.077862	0.75085118	0.20265669	3.70504018	0.00021136	0.004466
Svep1	7.30903471	0.74973812	0.36004284	2.08235809	NA	NA
Jun	360.544305	0.74971192	0.35174281	2.13142074	0.0330545	0.16974956
Spz1	6.14962252	0.74946404	0.40117548	1.8681701	0.06173836	0.25019074
Alcam	43.6823094	0.74939667	0.40620633	1.84486701	0.06505689	0.25835026
Mat1a	7.99192821	0.74934598	0.41212496	1.81824943	0.06902602	0.26716458
Hspa12b	22.324928	0.74925565	0.42433101	1.76573391	0.0774405	0.28570816
Ltb4r1	42.6553738	0.74924313	0.39339567	1.9045536	0.05683812	0.23756811
Kcnip3	454.654428	0.74908342	0.37425507	2.00153175	0.04533512	0.20662555
Gtsf1	520.45389	0.74901563	0.30855127	2.42752407	0.01520228	0.10256424
Amigo2	47.4531906	0.74855317	0.39499093	1.89511482	0.05807719	0.24090648
Exoc3l4	22.0767098	0.74798251	0.4202925	1.77967132	0.07512977	0.28037989
Gm166	380.445828	0.74755888	0.27113481	2.75714827	0.00583079	0.05265658
A930011O12	153.235412	0.74707992	0.36906873	2.0242298	0.04294651	0.19986389
Id2	606.753063	0.74695435	0.30454707	2.45267293	0.01417992	0.09774466
Mmp9	56.7551366	0.74679439	0.37052007	2.01553019	0.04384913	0.20213471
Map7d2	1955.1853	0.7467128	0.29653448	2.51813144	0.01179793	0.08629802
C430049B03f	35.8622945	0.74671053	0.37136783	2.01070333	0.0443568	0.20365888
Xlr4c	357.903861	0.74660532	0.35756904	2.08800327	0.03679754	0.18218355
Bsnd	13.0391413	0.74651298	0.42804904	1.74398938	0.08116094	0.29446925
Dcdc2b	20.3315456	0.74624733	0.42778087	1.74446165	0.08107862	0.29438564
Nr1h3	44.4143152	0.74614911	0.38146141	1.95602779	0.05046188	0.22086482
Zfp503	37.3940867	0.74593606	0.42583138	1.75171698	0.07982249	0.29155449
Ccdc78	12.4120119	0.74570724	0.43223731	1.72522647	0.08448667	0.30143234
Zpbp	35.3305131	0.74534621	0.41347475	1.80264023	0.07144473	0.27231301
2500004C02f	217.420551	0.74464059	0.34304003	2.1707105	0.02995306	0.15925205
Bcam	10457.538	0.74405811	0.24311456	3.06052463	0.0022095	0.02628911
Trpd5l3	16.3753786	0.74390976	0.43225494	1.72099772	0.08525124	0.30288828
B3galt4	191.324273	0.74362205	0.25533452	2.91234438	0.00358727	0.03706686
Creb3	1060.48493	0.74318506	0.23835762	3.11794129	0.00182119	0.02278466
Ccnd2	139.275118	0.74268512	0.39081879	1.90033114	0.05738968	0.23881336
Ebf3	14.3837834	0.74242898	0.43045119	1.72476926	0.08456906	0.30156696
Col4a5	38.9053465	0.74213535	0.43153586	1.71975362	0.08547724	0.30334471
Izumo4	214.555127	0.74144917	0.29061742	2.55128949	0.01073251	0.08098075
Postn	17.290362	0.74118841	0.36490229	2.03119696	NA	NA
Gpr176	5.99817645	0.74111617	0.35195764	2.10569707	0.03523067	0.17747724
Cygb	35.6498541	0.7410148	0.41101411	1.80289382	0.07140489	0.27229463
Rin1	344.041688	0.74099488	0.23979291	3.09014512	0.00200059	0.02445369

Atp2a1	15.9555951	0.74093379	0.43221527	1.71427027	0.0864791	0.30564466
Fbxl20	3535.99601	0.74048175	0.22052648	3.35779066	0.00078568	0.01232379
Pogk	41.1165403	0.74004525	0.42154921	1.75553703	0.07916749	0.29029325
Cabp4	67.5888111	0.73990757	0.38806859	1.90664121	0.05656706	0.23698126
Klhl10	231.023035	0.73968375	0.25723285	2.87554158	0.00403335	0.04005276
6430548M08	46.3369889	0.7390954	0.41714779	1.77178309	0.07643057	0.283601
Pyurf	724.858547	0.7387328	0.26115635	2.82869938	0.00467376	0.04475468
Mylk	64.8484872	0.73870268	0.40990715	1.80212199	0.07152621	0.27249
Tmprss11f	154.522105	0.73847019	0.37511632	1.9686432	0.04899408	0.21669707
1700067K01F	100.430173	0.73842586	0.35398048	2.08606381	0.03697284	0.18247163
Dapk1	2389.53538	0.7377798	0.27449252	2.68779561	0.00719254	0.06118775
Anxa1	728.009158	0.73764026	0.28253843	2.61076079	0.00903411	0.07211981
Ccdc19	132.572602	0.73683676	0.37039992	1.98930054	0.04666804	0.20999268
Slc46a1	764.749133	0.73673083	0.20111687	3.66319762	0.00024909	0.00505025
Lrp1b	9.63159087	0.73664489	0.42532449	1.73195976	0.08328073	0.29895739
Snai1	105.224006	0.73658083	0.33247393	2.21545439	0.02672889	0.14813293
Efcab1	75.7946942	0.73503589	0.33535385	2.19182179	0.02839238	0.15443507
D930020B18I	17.8082915	0.73474507	0.42867289	1.71399938	0.08652884	0.30575096
Rasgef1c	61.788717	0.73441623	0.34186438	2.14826779	0.03169249	0.16560816
Cdkl1	8.22149434	0.73407792	0.4116764	1.78314306	0.07456302	0.27913565
Fndc7	37.8557119	0.73377079	0.42237746	1.73723944	0.08234492	0.29691219
Nudt17	678.593266	0.73351904	0.25520718	2.87421002	0.0040504	0.0401463
2700046G09I	67.9490952	0.73341316	0.37639886	1.94849994	0.05135517	0.22301711
Mrgprd	8.89087064	0.73340856	0.40317994	1.81906013	0.06890226	0.26700698
Scube3	1397.20833	0.73328995	0.29638759	2.47409127	0.01335756	0.0937803
Dnase1l2	42.2655012	0.73292285	0.37189581	1.97077471	0.04874965	0.21604611
Hip1	7775.25494	0.73242519	0.2307861	3.17361047	0.00150556	0.0196417
Steap4	8.48181921	0.73242188	0.34972463	2.09428168	NA	NA
2310061J03R	83.0329867	0.73150627	0.32826666	2.22839037	0.02585449	0.14538871
Hoxa2	14.6644122	0.73109296	0.40705642	1.79604822	0.07248685	0.27453555
Morc4	455.502899	0.73024126	0.35897515	2.03423903	0.0419275	0.1967455
Prr18	37.7528565	0.73021101	0.42968628	1.69940499	0.0892429	0.31101075
Pmepa1	1587.28904	0.72999905	0.27187473	2.6850566	0.00725175	0.06152319
Gm6329	80.6403632	0.72948117	0.40180123	1.81552745	0.06944289	0.26821738
Comp	43.3638657	0.72938513	0.43214605	1.68782091	NA	NA
Cilp2	173.06569	0.72929115	0.32167984	2.26713354	0.02338207	0.13654321
Fam101a	6.62242572	0.72869591	0.40431031	1.8023184	0.07149533	0.27243906
Rnf39	41.0267238	0.72838522	0.38641395	1.88498687	0.05943161	0.24463234
Ccdc96	98.1987665	0.72821815	0.34816863	2.09156739	0.03647723	0.18114137
Spats1	526.282706	0.72811726	0.19810539	3.67540361	0.00023747	0.00485915
Serhl	1023.94108	0.72807025	0.26220023	2.77677196	0.00549017	0.05054921

MlIt3	2046.77634	0.72785324	0.3282493	2.2173794	0.02659718	0.14761338
Fam184a	155.105749	0.72759272	0.41099734	1.77031006	0.0766755	0.28423856
Il9r	5.76638854	0.7273069	0.39138399	1.85829498	0.06312714	NA
Tnfsf11	9.43886784	0.72685639	0.4307106	1.68757488	0.09149287	0.3150588
Pcdhga2	61.8795507	0.72582596	0.36879495	1.96810169	0.04905634	0.2168491
Blvra	893.129949	0.72564262	0.21534989	3.36959828	0.00075278	0.01191432
Epas1	3975.68075	0.72563318	0.31625918	2.29442563	0.02176606	0.13055868
Phtf1os	80.7871032	0.72535438	0.42431259	1.70948115	0.08736186	0.30760242
P2rx4	1528.49256	0.72509685	0.29408059	2.46563998	0.01367687	0.09541904
Stra6	34.695252	0.72376457	0.43131189	1.67805386	0.09333659	0.31823662
9030404E10F	20.6958953	0.72368787	0.4238522	1.7074062	0.08774658	0.30837221
Atp6v0d1	6820.78714	0.72349113	0.14873389	4.86433272	1.15E-06	6.27E-05
Egr1	636.693536	0.72311639	0.3526764	2.05036796	NA	NA
Spata31d1b	82.6894387	0.72261681	0.40297143	1.79322094	0.0729376	0.27537088
Sfmbt2	4229.37578	0.72209388	0.29802366	2.42294146	0.01539541	0.1033293
Pcdh19	432.141688	0.72193642	0.33344624	2.16507588	0.03038188	0.16059434
Zfp352	20.3404447	0.72163432	0.42489453	1.69838458	0.0894352	0.31119611
Ccdc28b	506.684063	0.7215953	0.3238388	2.22825463	0.02586354	0.14538871
Slc18a3	4.37741712	0.72020902	0.37941943	1.89818696	0.05767146	NA
D730045A05	4.49400983	0.71993382	0.3498233	2.05799274	0.03959083	NA
Tomm6os	34.5157444	0.7198599	0.41872453	1.719173	0.08558288	0.30351181
Obscn	30.9161529	0.71945329	0.40737554	1.76606893	0.07738429	0.28561324
Pus7l	944.440534	0.71928471	0.18238155	3.94384587	8.02E-05	0.00206109
Cyp7b1	300.787376	0.71925958	0.27876441	2.5801701	0.00987517	0.07677191
Lyzl4	3.86672779	0.71884274	0.36434445	1.97297569	0.04849833	NA
Hoxa1	312.829119	0.71857779	0.40331092	1.78169681	0.07479869	0.27981583
Gpr37l1	33.3899871	0.71803967	0.42047707	1.70767854	0.08769601	0.30833385
Mfsd1	11307.6611	0.71788525	0.14514505	4.94598519	7.58E-07	4.41E-05
Aff2	103.704451	0.71771001	0.4310909	1.66486932	0.09593883	0.32370249
Slc39a4	5729.06053	0.71752952	0.23456675	3.05895672	0.00222109	0.02634646
Nek10	43.1903767	0.71752886	0.4167345	1.72178897	0.08510775	0.30251673
Tpsg1	18.8878535	0.71747099	0.41428351	1.73183572	0.08330282	0.29895739
Pdpf	1698.20769	0.71729449	0.2436887	2.94348681	0.00324538	0.03461858
Bcl2l10	19.3255068	0.7167726	0.43161224	1.66068647	0.09677643	0.32506387
Rarres1	35.4430777	0.71668605	0.41560266	1.72445013	0.08462661	0.301703
Pdlim2	82.3760721	0.71636848	0.3909133	1.83255078	0.0668694	0.26268598
Tnfaip2	34.4235247	0.71610891	0.38657211	1.85245881	0.06395997	0.25595508
Rab7l1	920.459616	0.71586334	0.19839394	3.60829232	0.00030822	0.00597645
Mpdz	537.317735	0.71573502	0.36789801	1.94547128	0.05171828	0.224078
Stx11	25.3563854	0.71531889	0.40102954	1.78370624	0.07447141	0.2789942
Vgf	9.46621132	0.71460677	0.42221507	1.69251837	0.09054718	0.31332569

Fzd4	422.90267	0.7145428	0.25949919	2.7535454	0.00589536	0.05307714
Slc43a1	1200.60623	0.71454222	0.39576518	1.80547014	0.07100114	0.27115393
Grn	13950.6859	0.71427658	0.20534721	3.47838464	0.00050445	0.00870658
Foxl2os	73.8786152	0.71422727	0.43042996	1.65933447	0.09704841	0.32560947
Oxct2a	17.4485215	0.71376428	0.43172697	1.65327703	0.0982745	0.32795422
H2-Eb2	49.0394452	0.71341187	0.42748111	1.66887345	0.09514246	0.32213378
Entpd5	1091.26312	0.71287269	0.21794235	3.27092312	0.00107197	0.01539271
2410012M07	1103.90649	0.71213082	0.22296422	3.19392429	0.00140353	0.01871894
Phtf1	2160.46442	0.71205839	0.20377459	3.49434339	0.00047523	0.00833178
Perp	855.862621	0.71153142	0.21447112	3.31760942	0.00090791	0.01360208
Sstr3	15.8737912	0.711111123	0.43171817	1.64716537	0.09952406	0.32999971
Col11a2	35.139367	0.71109967	0.39086136	1.8193143	0.06886349	0.26700698
Cpa4	4.88963146	0.71098742	0.38769107	1.833902	0.06666854	NA
Smr3a	30.4411578	0.71067425	0.43119093	1.64816607	0.0993186	0.3298107
Sln3	171.497642	0.71022298	0.32397783	2.19219623	0.02836534	0.15439601
L3hypdh	277.184077	0.7098023	0.34667714	2.0474448	0.04061443	0.19303026
Uba7	50.6646178	0.70975189	0.43161855	1.64439617	0.1000944	0.33125515
Myo5a	2464.20312	0.70940656	0.30887308	2.29675751	0.02163261	0.13008842
Manba	7061.19934	0.70932158	0.32877973	2.1574371	0.03097162	0.16277111
lsg15	4.73064387	0.70861191	0.38623549	1.83466287	0.06655566	NA
Sertad3	1229.13327	0.70813323	0.21417486	3.30633225	0.00094526	0.01398576
Adamts10	531.267947	0.70799797	0.28008381	2.52780753	0.01147773	0.08472551
Hoxb8	6.71308144	0.70794854	0.39296462	1.80155795	0.07161498	0.2726443
Lhfp	95.4056398	0.70782706	0.34616011	2.04479675	0.0408749	0.19369391
Lgals9	397.966274	0.70765845	0.37933794	1.86550929	0.06211005	0.25113713
Efcab5	13.2665755	0.70743689	0.43038517	1.64372971	0.10023205	0.33156957
Cpe	2699.34157	0.7072848	0.25647288	2.75773718	0.0058203	0.05263288
Cped1	8.80757903	0.70699956	0.42875875	1.6489449	0.09915892	0.32942115
Dcbld1	2730.29663	0.70664514	0.25887176	2.72971119	0.00633898	0.05577716
Zfp711	267.622606	0.70644939	0.25918834	2.72562181	0.00641805	0.05626104
Tdpoz2	3.86539738	0.70593927	0.34826102	2.0270407	0.04265825	NA
Sorbs3	206.715808	0.70565044	0.33891386	2.08209376	0.03733391	0.18326376
Gm2022	54.6579469	0.70542961	0.43119501	1.63598743	0.10184222	0.33511391
1700106J16R	7.66180263	0.70537319	0.42395796	1.66378096	0.09615621	0.32400358
Ropn1l	40.3594975	0.70513711	0.39255551	1.79627364	0.07245101	0.27446666
Map6	1148.43464	0.70473008	0.22050771	3.19594295	0.00139375	0.01865246
Cpb2	6.59437858	0.70378736	0.38206522	1.84206078	0.06546626	0.25931376
Mamld1	19.3962358	0.70312495	0.43219728	1.62686113	0.1037666	0.33917927
Tspyl4	505.822579	0.70305356	0.19463348	3.61219228	0.00030362	0.00589461
Rspo2	13.1026958	0.70300063	0.43019359	1.63414947	0.10222747	0.3358847
Ky	32.1941483	0.70268861	0.43183128	1.62722954	0.10368836	0.33917927

Rnf128	890.199338	0.70248951	0.4322563	1.62516895	0.10412657	0.33939891
Abca14	8.90634713	0.70109188	0.4254872	1.64773906	0.09940623	0.32995504
Otud6a	439.476976	0.70106202	0.39296881	1.78401441	0.07442132	0.27887373
Actg2	4.56259814	0.70081819	0.3877877	1.80722129	0.07072778	NA
2210013O21I	812.928398	0.69953225	0.21236962	3.29393749	0.00098794	0.01445299
1700001K19F	6.82482104	0.69929422	0.40403428	1.73077944	0.08349111	0.29916365
Pqlc2	612.749159	0.69840235	0.21668912	3.22306154	0.00126828	0.01738655
Hapln4	146.23128	0.69839211	0.33228193	2.1018059	0.03557028	0.17860945
Tsix	504.481347	0.69707724	0.31502566	2.21276341	0.02691396	0.14878742
E530011L22R	29.5549703	0.69679011	0.43144392	1.61501895	0.10630659	0.34355233
Tma7	2351.65478	0.69598812	0.24965372	2.78781397	0.0053065	0.0492665
Dock3	203.989833	0.69591564	0.37511188	1.85522152	0.0635646	0.25483194
Rrh	5.99531921	0.6957047	0.40880655	1.7017944	0.08879392	0.31002115
Bad	1242.86303	0.69552932	0.26026678	2.67237073	0.00753174	0.06344857
Folr1	4105.45841	0.69544761	0.32390811	2.14705221	0.03178912	0.16589016
Kctd11	148.340424	0.69509609	0.26369777	2.63595738	0.00839003	0.06863404
Slitrk5	28.5947291	0.6949111	0.42918598	1.61913745	0.10541769	0.34181621
Gdpd2	33.1418228	0.69450752	0.43094509	1.61159166	0.10705083	0.34516082
Naprt1	328.988986	0.69411046	0.28990114	2.39430053	0.0166521	0.10917233
Ccdc17	54.6856522	0.69361596	0.3675898	1.88692931	0.05916983	0.24400692
Nsun7	9.25943624	0.69336649	0.40977604	1.69206208	0.09063414	0.31342039
Dnaja4	204.650066	0.69292871	0.30384443	2.28053779	0.02257581	0.13364159
Skida1	922.869252	0.69288936	0.23940479	2.89421682	0.00380106	0.03845818
S100a1	1828.14927	0.69192641	0.43097549	1.60548899	0.10838623	0.34788737
Nckap5l	773.871004	0.69171422	0.30804474	2.2454992	0.0247361	0.1416315
Jpx	3.75454373	0.69153391	0.36048716	1.91833159	0.05506898	NA
Agtpbp1	2067.34057	0.691476	0.31257285	2.21220752	0.02695233	0.14889367
Bahd1	2318.84182	0.69129049	0.21767752	3.17575502	0.00149447	0.01955148
1700001L19F	34.941802	0.69070973	0.4118677	1.67701843	0.09353888	0.3186469
Kctd1	371.411507	0.69054593	0.25213415	2.73880363	0.00616632	0.05463956
Ttll13	283.655015	0.69031814	0.238382	2.89584839	0.00378135	0.03835929
Nsf	14152.5863	0.69013079	0.21474334	3.21374712	0.00131015	0.01773421
0610031J06R	6951.28508	0.68999292	0.18230406	3.78484674	0.0001538	0.0034671
Gylt1b	1143.34397	0.68938528	0.22966643	3.00168064	0.00268494	0.0301469
Padi6	70.3128987	0.68872341	0.37688138	1.82742753	0.06763551	0.26401773
Was	811.210522	0.6886093	0.20529355	3.35426666	0.00079576	0.01243699
lp6k2	1037.90628	0.68830423	0.17954403	3.83362365	0.00012627	0.00295725
Tgfbr2	231.354101	0.68824656	0.36863991	1.86698874	0.06190316	0.25069168
Cga	29.1053494	0.6882458	0.42715725	1.61122352	0.10713101	0.34521227
Dlx1	29.9069676	0.68824268	0.43048839	1.59874855	0.10987649	0.35030265
Glt8d2	17.7084344	0.68781611	0.4300801	1.59927444	0.10975964	0.35027131

Ppp1r10	4223.32914	0.6874007	0.25885363	2.65555747	0.00791774	0.0659501
Eqtn	10.5441782	0.68696003	0.43203694	1.5900493	0.11182369	0.35361429
Pramef25	22.4610507	0.68692845	0.39875104	1.72270009	NA	NA
Tnfrsf18	9.43907932	0.68645065	0.43079128	1.5934646	0.111056	0.35238358
Kcnc1	6.2512012	0.68628041	0.40163296	1.70872532	0.08750184	0.30785998
Igf2	149.901351	0.68624448	0.42487626	1.61516316	0.10627537	0.3435228
Hk3	5.54887243	0.68608241	0.39994362	1.71544781	0.08626316	NA
Cbln1	548.651594	0.68594356	0.37148138	1.84650858	0.06481839	0.25789153
Crtc3	404.246871	0.68537285	0.26589503	2.57760684	0.00994871	0.07718724
F8a	335.170116	0.68442703	0.29993687	2.2819036	0.02249503	0.13331564
Ucp2	12647.0986	0.68441367	0.26820162	2.55186261	0.01071488	0.08096552
1700028K03F	11.244794	0.68429961	0.42738564	1.60112916	0.10934832	0.34938887
Snora31	127.356815	0.68386523	0.28371444	2.41039985	0.01593505	0.10575075
Tcte2	38.9913651	0.68369945	0.38319524	1.78420654	0.07439011	0.27887373
Prss23	13.8226851	0.68295444	0.41111706	1.66121648	NA	NA
Fmo1	37.1461287	0.68280245	0.43224513	1.57966485	0.11418364	0.35801802
Ap4s1	548.73763	0.68253258	0.18489679	3.69142479	0.000223	0.00464074
Klhl41	14.659635	0.68250978	0.43206751	1.57963689	0.11419005	0.35801802
Zfp212	2066.97241	0.68244921	0.18468745	3.69515753	0.00021975	0.00458088
Ptprm	97.0502739	0.68233852	0.41945771	1.6267159	0.10379745	0.33917927
Tmem62	358.348297	0.68226859	0.36228676	1.88322805	0.05966947	0.24522196
Nanos1	1045.14703	0.6822192	0.22276126	3.06255764	0.00219454	0.02615121
Mthfsd	836.32393	0.68218715	0.22131885	3.08237251	0.00205358	0.02492988
Hnf1b	51.1703181	0.68185712	0.34960631	1.95035702	0.05113358	0.22261431
Lgals3bp	198.024261	0.68182807	0.30261828	2.25309609	0.02425309	0.13982331
Lox	63.2654379	0.68148861	0.34754516	1.96086346	NA	NA
Grik5	476.996453	0.68144883	0.2597719	2.62325849	0.00870932	0.07036397
Prkcg	745.221139	0.68134679	0.25933249	2.62730974	0.0086063	0.06989043
Zfp133-ps	62.5737951	0.67988003	0.37584366	1.80894373	0.07045975	0.27021443
Grin3a	6.2189458	0.67969311	0.4009283	1.69529841	0.09001883	0.31253583
Daglb	361.556813	0.6796498	0.27013995	2.51591738	0.0118723	0.08670295
Gpr12	3.72466401	0.67926456	0.36023556	1.88561218	0.05934723	NA
Armc7	369.052818	0.67918238	0.27539531	2.46620899	0.01365516	0.09535314
Impg2	7.09062669	0.67897684	0.35714295	1.90113466	NA	NA
Gpatch3	776.684216	0.67887125	0.23126021	2.93552988	0.00332979	0.03515376
Shisa7	857.814113	0.67857919	0.31397047	2.16128348	0.03067345	0.16175069
Trpc1	104.136547	0.67804096	0.40504034	1.67400847	0.09412893	0.3197668
4930590L20F	11.5070859	0.67803611	0.41434911	1.63638847	0.10175831	0.3350505
Trim10	36.4482261	0.67794981	0.42557151	1.59303382	0.1111526	0.35254622
Nt5m	344.028903	0.67792975	0.25158216	2.69466547	0.00704593	0.06030338
Caskin1	283.180689	0.67776179	0.32266389	2.10051951	0.03568317	0.17900288

Socs2	4028.46872	0.67717732	0.1607931	4.21148235	2.54E-05	0.00080352
Slc38a4	25131.8222	0.6767766	0.27176721	2.49028053	0.01276423	0.09076202
Il20rb	113.718897	0.67598273	0.34312008	1.9701054	0.04882629	0.21621299
Stox1	83.9030019	0.67585534	0.34544994	1.95644945	0.05041223	0.2207437
Amotl2	6815.72506	0.67544799	0.21359243	3.16232174	0.00156517	0.02017579
Bmp2k	266.782112	0.67493977	0.27652895	2.44075624	0.01465654	0.1000544
Gm9926	6.50722325	0.67449452	0.39855455	1.69235181	0.09057891	0.31332569
Dpf3	25.7948572	0.67378872	0.42763591	1.57561307	0.115115	0.36004695
Ndr3	2171.75638	0.67343818	0.1819061	3.70211986	0.00021381	0.00449917
Epn3	8.5489028	0.6731671	0.39492804	1.70453104	0.08828192	0.3092751
Decr2	3523.57525	0.67249533	0.18936638	3.55129204	0.00038334	0.00706206
Oxgr1	5.93690505	0.67248519	0.37161474	1.80963003	0.07035318	0.27004374
4921507P07F	23.977666	0.67148492	0.41090812	1.63414858	0.10222766	0.3358847
Chst2	162.808453	0.67102579	0.34994391	1.91752383	0.05517142	0.23327099
Kcnc4	124.955759	0.67089708	0.29269075	2.29217046	0.02189581	0.13106302
Anxa9	76.7616066	0.67085621	0.36058897	1.86044572	0.06282249	0.25303096
Cyp2b23	1002.80086	0.67060471	0.42676771	1.57135765	0.1160996	0.36215582
Fbxl22	11.1232761	0.67044689	0.43191481	1.55226648	0.12059848	0.36940975
Myh13	2163.27384	0.67039524	0.32815053	2.04295035	0.04105735	0.19412676
Ush2a	4.34218456	0.67032288	0.37171522	1.80332375	0.07133739	NA
Tbx3os2	62.3705187	0.67001461	0.3406201	1.96704364	0.04917818	0.21726417
Tnfrsf4	64.0933494	0.67000485	0.35631192	1.88038856	0.06005514	0.24644423
Dnajb4	431.009184	0.66998768	0.21483034	3.11868281	0.00181661	0.02274571
Tiam2	1388.53041	0.66951217	0.34632204	1.93320692	0.05321071	0.22884208
Chmp2b	3266.96357	0.66939458	0.17510145	3.82289565	0.00013189	0.00306589
Clca4	474.525323	0.66938316	0.4287181	1.56135968	0.11843891	0.36580804
Itih4	3.7439922	0.6692745	0.35983869	1.85992922	0.06289554	NA
Pla2g2e	8.43020925	0.66827657	0.42578359	1.56952169	0.11652643	0.3624409
Hecw1	7.7601759	0.66820977	0.38907463	1.71743342	0.08590001	0.30438997
Cmtm7	6658.72166	0.66777959	0.22565983	2.95923117	0.00308408	0.03339866
Hdgfl1	13.953557	0.6674602	0.4296445	1.55351738	0.12029958	0.36906269
Saa1	134.30098	0.66730802	0.41900141	1.5926152	0.11124654	0.35271344
Dkk1	529.346367	0.66712467	0.30495986	2.18758193	0.02870007	0.15542836
Pfn4	38.1645002	0.66706077	0.39848839	1.67397793	0.09413494	0.3197668
Prkch	108.312905	0.66521001	0.37371796	1.77997873	0.07507944	0.28025934
Edn1	167.915163	0.66513059	0.36668213	1.81391602	0.06969066	0.26878953
Chrn1	571.696701	0.66503938	0.24975009	2.66281936	0.0077489	0.0648913
Ndn	537.394506	0.66497395	0.22205226	2.99467314	0.00274739	0.03069301
Zfp641	5.5025738	0.66467003	0.39601521	1.67839522	0.09326997	NA
Mapt	4066.02279	0.66378555	0.26935874	2.46431785	0.01372743	0.09547055
Phyhd1	518.224803	0.66321244	0.27572167	2.40536927	0.01615613	0.10686686

Pex2	635.377762	0.66238342	0.29621856	2.23613067	0.02534321	0.14362693
Fxyd4	281.908572	0.66212867	0.41084237	1.61163677	0.10704101	0.34516082
Ccdc125	527.126142	0.66149146	0.22650776	2.92039207	0.00349591	0.0363402
Cdh15	15.5129396	0.66146966	0.43197982	1.53125128	0.1257073	0.37885621
Satb2	658.773354	0.66142688	0.25963772	2.54749912	0.01084981	0.08140944
Gm14295	246.791765	0.66112327	0.25054087	2.63878415	0.00832039	0.0682911
Steap1	243.90121	0.66093474	0.33261694	1.98707482	0.04691411	0.21073405
Lrrc24	13.7348101	0.66072846	0.43028934	1.53554459	0.12465011	0.37720061
Usp17lb	58.2728108	0.6606026	0.42406867	1.55777273	0.11928713	0.3673335
Gusb	3165.92031	0.66025507	0.21437353	3.07992807	0.00207051	0.02500897
Fam212a	191.772576	0.66014385	0.33936002	1.94526111	0.05174356	0.224078
Gpx3	1798.54017	0.65990146	0.2207553	2.9892893	0.00279627	0.03114959
Spi1	170.617849	0.65967164	0.28054189	2.35141941	0.01870194	0.11804173
Iffo1	861.110432	0.65938544	0.19316921	3.41351207	0.00064131	0.01056468
Atp2c2	46.8450301	0.65924726	0.40405351	1.63158403	0.10276714	0.33693244
3000002C10F	122.791274	0.65909338	0.3013678	2.18700666	0.02874204	0.15542836
1700052K11F	246.393153	0.65887656	0.23390546	2.8168499	0.00484972	0.04587468
Ccdc89	81.4323283	0.65852169	0.328841	2.00255347	0.04522524	0.20624566
Kcnk6	381.047126	0.65831703	0.22414619	2.93699858	0.00331406	0.03510687
Ubap1l	385.090204	0.6582448	0.30292566	2.17295823	0.02978346	0.15861733
Slc5a5	68.2431253	0.65794275	0.39578862	1.66235892	0.09644083	0.32441085
Stk31	2062.42386	0.6573151	0.29466298	2.23073524	0.02569867	0.14500727
Tgfb3	15.7772658	0.65726894	0.4269192	1.53956283	0.12366695	0.37554086
Alpk1	5.87468427	0.65629364	0.41621326	1.57682059	0.11483681	NA
C030016D13I	17.8364387	0.65624447	0.43024793	1.52527049	0.12719165	0.3809625
Slc26a10	125.122288	0.65578342	0.36698355	1.7869559	0.07394462	0.27769291
Gdap1l1	15.8529487	0.6555781	0.43065984	1.52226428	0.12794288	0.38211884
0610040J01R	45.9958613	0.65542203	0.42394143	1.54602024	0.12209968	0.37232555
Ube2h	2867.62991	0.65518899	0.2066279	3.17086407	0.00151986	0.01976202
Gsdma3	19.907293	0.65483478	0.3918549	1.67111544	0.09469888	0.32105129
Fgf22	8.87463868	0.65482501	0.42863789	1.52768811	0.12658999	0.37996545
Gm4971	40.3515118	0.65477316	0.43189263	1.51605543	0.12950534	0.38455938
Mxd1	507.841229	0.65450847	0.21268015	3.07743089	0.00208793	0.02511171
Slc6a13	15.6918184	0.65425371	0.42722804	1.53139225	0.12567248	0.37885621
Ankrd34a	21.1920767	0.65411739	0.43016321	1.52062607	0.1283537	0.3824439
Glcci1	749.748823	0.65402095	0.25001671	2.61590898	0.00889903	0.07140804
Tlx2	331.836874	0.65397719	0.40666513	1.60814671	0.10780305	0.3468029
Rnf151	15.1591438	0.65389887	0.42672238	1.5323754	0.12542982	0.37863766
Tubb4a	34.2101103	0.6538041	0.41253119	1.58485981	0.11299819	0.35614812
Pgam2	280.797916	0.65321235	0.3864257	1.69039573	0.09095227	0.31400004
Adamts1	17.3798296	0.65316015	0.4321343	1.51147491	0.1306675	0.38666893

Fgd3	3.78316669	0.65181978	0.35350907	1.84385588	0.06520415	NA
Rarres2	24.0627766	0.651735	0.43167662	1.50977599	0.13110059	0.38737323
Gm53	933.523255	0.65168669	0.19228735	3.38912921	0.00070115	0.01127568
4831440E17F	154.648488	0.65135834	0.38626913	1.68628113	0.09174166	0.3153569
Cd300e	13.2195391	0.65129238	0.4315088	1.50933741	0.13121258	0.38740968
Socs5	679.184604	0.6506488	0.27084998	2.40224793	0.01629466	0.10746322
Rbp1	413.904091	0.65061087	0.3216339	2.02283051	0.04309062	0.20009027
Reep5	1972.3931	0.65033178	0.22840147	2.84731865	0.00440892	0.04271846
Sdsl	17.1021488	0.65017777	0.42494574	1.53002539	0.12601044	0.37888407
8030411F24F	8.6739088	0.64973468	0.38391096	1.69240984	0.09056786	0.31332569
Esrp2	899.255956	0.64939957	0.31649859	2.05182451	0.04018672	0.19175934
Mirlet7d	35.9073966	0.64936369	0.41719024	1.55651697	0.11958521	0.36801556
2810029C07F	72.4832408	0.64934873	0.33924729	1.91408672	0.05560908	0.23467483
Txnip	26837.0403	0.64908745	0.32397147	2.00353276	0.04512013	0.20600799
Parp4	1051.28828	0.64875421	0.30259091	2.14399772	0.03203307	0.1664297
5930403L14F	30.4004329	0.64809964	0.42010847	1.54269596	0.12290456	0.37417558
Gpd1	70.7795312	0.64803925	0.31295286	2.07072482	0.03838452	0.18700428
Pcdhga7	46.6303716	0.64795529	0.36743123	1.76347364	0.07782064	0.28677459
Mcc	526.843782	0.64788766	0.35584989	1.82067686	0.06865599	0.26645104
Mroh2a	3.72737869	0.64733789	0.37139669	1.7429824	0.08133669	NA
Tmem173	724.375861	0.64721997	0.38237425	1.6926348	0.090525	0.31332569
1700051A21f	6.22123459	0.64705224	0.39121875	1.65393974	0.09813976	0.3276452
Lmo7	4464.9229	0.64702817	0.25196011	2.56797863	0.01022935	0.07875048
Dhrs11	690.030011	0.64691144	0.25891319	2.49856504	0.01246973	0.08948625
Ttpal	656.71722	0.64655782	0.2574361	2.51152739	0.012021	0.08747547
Fbp2	1066.68164	0.64584399	0.43227222	1.49406775	0.13515791	0.3927206
Snhg18	144.699477	0.64581694	0.42441677	1.52165747	0.12809493	0.38211884
C230035I16R	50.972268	0.64577177	0.36006049	1.79350911	0.07289156	0.27533072
Tax1bp3	335.261202	0.64551538	0.24287878	2.65776771	0.00786601	0.06562463
Ydjc	1451.52881	0.64550405	0.19872032	3.24830416	0.00116095	0.01636804
DQ267102	22.7150943	0.64504431	0.41705173	1.54667697	0.12194116	0.37203601
Mpc2	1604.47398	0.6447411	0.23112925	2.78952616	0.00527852	0.04903603
AY512931	34.9202376	0.64397852	0.41915785	1.5363628	0.12444943	0.37681328
Oxnad1	2943.80218	0.64349305	0.189766	3.39098185	0.00069643	0.01121132
Podnl1	11.7236338	0.64316683	0.43226995	1.48788236	0.13678192	0.39489535
Sgpl1	11193.1232	0.64301383	0.19533778	3.29180475	0.00099547	0.01453569
Igbp1b	13.3180122	0.64275287	0.43223677	1.48703886	0.13700455	0.3952064
Galnt4	355.152577	0.64264599	0.23458406	2.7395126	0.00615304	0.05460836
Lyrn1	274.271425	0.64238124	0.27716707	2.31766796	0.02046737	0.12575418
Sesn3	1444.22797	0.64225879	0.23328888	2.75306221	0.00590407	0.05310246
Crlf2	695.594204	0.64212411	0.2965281	2.16547469	0.03035135	0.16048754

Scrn1	807.982054	0.64187004	0.3475395	1.84689812	0.06476191	0.25783728
Ston2	2055.59871	0.6417314	0.30494211	2.1044368	0.03534036	0.17785695
Usp17ld	8.73520256	0.64150532	0.41981945	1.52805049	0.1265	0.37981113
Atp1b2	1258.4931	0.64115529	0.20614516	3.11021273	0.00186953	0.0232584
Chad	3.99353365	0.6409518	0.36932473	1.73546949	0.08265768	NA
2610034B18f	784.926801	0.64048418	0.21269924	3.01121988	0.002602	0.02934283
Kcnq2	308.994074	0.6402565	0.36406622	1.75862647	0.07864097	0.28897585
Prdm11	27.8741668	0.64018091	0.42650582	1.50098985	0.13335819	0.39033562
Bcl11b	58.7799742	0.63989472	0.40628696	1.57498218	0.11526056	0.3601547
4430402I18R	25.6187618	0.63969705	0.40430857	1.58220008	0.1136039	0.35726072
Col1a1	163.042166	0.63904094	0.40126883	1.59255066	NA	NA
Nagpa	1244.43383	0.63900686	0.23679896	2.6985206	0.00696484	0.05978021
Dok3	20.8115361	0.63865998	0.43211938	1.47797117	0.13941549	0.39927262
Nxf3	2187.99	0.63857593	0.20297258	3.14611919	0.00165453	0.02105526
Spag6	36.1199697	0.63815254	0.42181759	1.51286375	0.13031427	0.38615039
B3gnt7	969.331572	0.63801821	0.34713825	1.83793693	0.0660717	0.26043013
Mgll	186.319614	0.63772209	0.37133314	1.71738533	0.08590879	0.30438997
Ptpn22	44.056044	0.63767818	0.40910337	1.55872141	0.11906233	0.36689611
Uroc1	19.8707838	0.63752492	0.43197897	1.47582397	0.13999115	0.3999637
Gramd3	78.9910274	0.63727988	0.32668441	1.9507508	0.0510867	0.2224908
Paqr9	42.4368219	0.63636043	0.40856716	1.55754178	0.11934191	0.36742943
Foxa1	54.8405717	0.63584622	0.43226524	1.47096309	0.1413011	0.40171844
Myl4	416.566359	0.63580108	0.36210891	1.75582832	0.07911773	0.29028477
Hoga1	44.8930665	0.63492158	0.37294988	1.70243137	0.08867453	0.30995588
Lrrc39	11.0709442	0.63477803	0.43138748	1.47147994	0.14116137	0.40171844
1700020D05I	22.6094239	0.63455808	0.42134973	1.50601278	0.13206389	0.38852168
AF357359	368.646815	0.63450226	0.26846644	2.36343236	0.01810653	0.11573147
Gm4285	31.2240945	0.6344137	0.38504291	1.64764414	0.09942572	0.32995504
Ipo13	1976.074	0.63425092	0.25547083	2.48267447	0.01304002	0.09222734
1700012B07f	21.800436	0.63412802	0.42935359	1.47693657	0.13969264	0.39961648
Mb21d2	1773.00782	0.63404354	0.36846927	1.72075014	0.08529617	0.30297871
Dip2a	1270.99786	0.6336866	0.25224453	2.51219162	0.01199839	0.08735346
Tdrp	4919.08674	0.63350049	0.17102014	3.70424493	0.00021202	0.00447374
Mmp12	22.110336	0.6333033	0.43002698	1.47270597	0.14083034	0.401182
1700037H04I	3592.01609	0.63327413	0.26043957	2.43155876	0.01503401	0.10160534
Sfrp2	265.409799	0.63278048	0.30218808	2.09399549	0.03626038	0.18058504
AA465934	626.570184	0.63277962	0.28595493	2.21286491	0.02690696	0.14878742
Nat8l	158.046954	0.63256323	0.42151635	1.5006849	0.13343708	0.39041957
Akr1c13	38.0412409	0.63197263	0.38836233	1.62727583	0.10367853	0.33917927
Il3ra	247.647154	0.63170266	0.34517644	1.83008628	0.06723704	0.2633085
Card9	157.880055	0.63123236	0.33579438	1.87981814	0.06013287	0.24660502

Epha6	3.63703924	0.6306658	0.36790013	1.71423096	0.08648632	NA
Trhde	6.69355847	0.63040133	0.42031853	1.49981808	0.13366153	0.39085568
C1qtnf4	79.5984443	0.63027349	0.34457073	1.82915563	0.0673763	0.26339085
Pramef17	823.093929	0.62996723	0.28328226	2.22381464	0.02616092	0.14624947
Zak	2051.13327	0.6296186	0.24677095	2.55142913	0.01072821	0.08098075
Slc37a2	1261.17769	0.62918653	0.24692393	2.54809864	0.01083118	0.08140944
Ifitm7	74.1653827	0.62913568	0.33400491	1.88361205	0.05961747	0.24520267
Prss27	100.292834	0.62899416	0.33890396	1.85596581	0.06345843	0.25466892
Tceanc2	1088.9265	0.62888328	0.28873435	2.17806883	0.02940091	0.15717603
Adcy5	91.8329562	0.62872803	0.40153775	1.56580056	0.11739531	0.36395824
Hivep3	23.950205	0.62861675	0.42474083	1.48000077	0.13887304	0.39830591
Tal1	33.1509908	0.62838007	0.40050416	1.56897263	0.11665432	0.36260069
Isyna1	7719.11269	0.6283747	0.15894366	3.95344286	7.70E-05	0.00198998
Arg2	43.1340361	0.62794414	0.43143793	1.45546811	0.14553971	0.4089048
Celf2	682.18707	0.62753895	0.34021004	1.84456326	0.0651011	0.2584176
Dcun1d5	6791.69079	0.62675451	0.1748255	3.58502908	0.00033704	0.00644689
Slc35g2	133.629199	0.62593783	0.31533756	1.98497706	0.04714702	0.21141389
A930004D18	581.482615	0.62589904	0.27938075	2.24030839	0.02507091	0.14276005
Lrrc56	426.694082	0.62548997	0.29538104	2.11756982	0.03421152	0.17358019
Xaf1	4290.49247	0.62541188	0.32473583	1.92590969	0.05411565	0.23056233
Gm4013	39.8039875	0.62530365	0.38525386	1.62309509	0.10456908	0.33994888
Scmh1	1475.80795	0.62512732	0.18130342	3.44796211	0.00056483	0.00951649
Kif21a	567.097909	0.62477729	0.34658858	1.80264825	0.07144347	0.27231301
Tph1	9.35823005	0.62477364	0.42759021	1.46115047	0.14397415	0.40567894
Mbd2	1176.55566	0.6241516	0.17718638	3.52257104	0.00042738	0.00771919
Zc3h12b	16.640264	0.62410355	0.43227167	1.44377622	0.14880193	0.41380881
Limd2	2117.42037	0.62398614	0.19669608	3.17233648	0.00151218	0.01969503
4930444M15	253.983927	0.62391244	0.30838997	2.02312817	0.04305994	0.20005532
Ticam1	574.242024	0.62299073	0.23189691	2.68649869	0.00722052	0.06132515
Hbegf	1084.54882	0.62280946	0.34295524	1.81600801	0.06936914	0.26819621
Vasn	126.364171	0.62254572	0.29694525	2.0965	0.03603786	0.18008508
Pdha2	111.296961	0.62232223	0.29192871	2.13176099	0.0330265	0.16974377
2310034G01	33.2986633	0.6220303	0.39918837	1.55823753	0.11917695	0.36713962
Tlr4	6.93723565	0.62124969	0.3921855	1.58407102	0.11317756	0.35655018
N6amt2	1512.49203	0.62037927	0.18206204	3.40751566	0.00065557	0.01074063
Fbxo25	2608.717	0.6202067	0.2215877	2.79892211	0.00512735	0.04783169
Ppm1e	132.617836	0.61970254	0.3543689	1.7487498	0.08033428	0.29222886
Tc2n	99.8950249	0.61941454	0.41617979	1.488334	0.13666283	0.39487991
1700037C18	25.1048432	0.61917849	0.41520864	1.49124664	0.13589675	0.39361713
Pbx3	1217.52655	0.61917244	0.34400853	1.79987525	0.07188034	0.27330346
Gnas	9924.48986	0.61906675	0.18973433	3.26280835	0.00110314	0.01573848

Ackr2	8.68845078	0.61871225	0.42040134	1.47171807	0.14109703	0.40171844
Tacr3	6.49432472	0.6185043	0.38679519	1.5990486	0.1098098	0.35030265
C130036L24F	26.7753013	0.61829401	0.41266706	1.49828775	0.13405851	0.39131561
Gm12942	683.363517	0.61811749	0.32894695	1.87907954	0.06023363	0.24686878
Fbxw9	2671.12924	0.61808063	0.19519064	3.16654847	0.0015426	0.01994091
Plekhb2	5408.83302	0.61789742	0.18172959	3.40009245	0.00067363	0.0109349
Dbil5	74.5656024	0.61782875	0.38341148	1.61139869	0.10709285	0.34516082
Rhof	75.784006	0.61778654	0.35178613	1.75614243	0.07906409	0.2901878
Hectd2	495.452862	0.61714382	0.36284635	1.70084065	0.08897291	0.31036738
Olfcr3	6.0804406	0.61627101	0.41538256	1.48362273	0.13790904	0.39678509
Prkg2	178.845934	0.61618446	0.34938406	1.76363072	0.07779417	0.28677459
2210016F16F	2855.48278	0.61613212	0.19446919	3.16827621	0.00153346	0.01985579
Dusp2	34.0116076	0.6160273	0.42142213	1.46178205	0.14380094	0.40541126
Creb3l1	232.04751	0.61596472	0.23996974	2.56684334	0.0102629	0.07876795
Gm9776	129.316216	0.61510268	0.30099271	2.04358001	0.04099506	0.19400916
Il33	14.8079021	0.61473164	0.41316922	1.48784473	0.13679185	0.39489535
Ggct	2311.63158	0.61463181	0.30484846	2.016188	0.04378032	0.20199689
9130230L23F	14.6271193	0.6142553	0.43226484	1.42101612	0.15531207	0.42380383
Pih1d2	64.6432722	0.61414397	0.34739502	1.76785482	0.07708518	0.28514548
Map3k5	1943.40148	0.61395775	0.21661772	2.83429147	0.00459274	0.04408749
Ccdc81	9.93595597	0.61358698	0.42797312	1.43370448	0.15165661	0.41871751
Abhd15	58.0407604	0.61323335	0.41515543	1.47711749	0.13964415	0.39955955
Fmn2	658.645286	0.61281561	0.35810217	1.71128708	0.08702813	0.30681806
Stim2	1391.69937	0.61276893	0.22846578	2.68210376	0.00731608	0.06196749
Gm8300	81.2344531	0.61261107	0.42973944	1.42554071	0.15400096	0.42207772
Slc5a1	987.611296	0.61232844	0.33994942	1.80123397	0.07166601	0.27267578
Enpp5	496.224606	0.61220001	0.3403563	1.79870333	0.07206562	0.27374022
Vgll3	120.212197	0.61214947	0.41819318	1.46379592	0.14324972	0.40444379
Adrb3	2687.60092	0.61177249	0.24276321	2.52003795	0.01173422	0.08599379
Tomt	3.62242403	0.61126321	0.38452828	1.58964436	0.11191499	NA
Kcnab1	3.62242403	0.61126321	0.38452828	1.58964436	0.11191499	NA
Tbx3	15119.8034	0.61119342	0.19701472	3.1022729	0.00192041	0.02375837
Rimkla	280.329945	0.61099349	0.36332641	1.6816655	0.09263372	0.31695204
Cxcl5	9.20091843	0.61088862	0.34340582	1.77891165	0.07525425	0.28064941
Gm2027	48.3970807	0.61074871	0.43029899	1.41935894	0.1557944	0.4243942
E330033B04F	17.7962254	0.61063222	0.43180592	1.41413582	0.15732203	0.42689144
Mmgt2	483.518737	0.61041435	0.21245194	2.8731879	0.00406352	0.04019838
Il10rb	320.741414	0.60972964	0.35382906	1.72323224	0.08484654	0.30207154
Cox7a1	1738.54427	0.60936584	0.29986075	2.03216272	0.04213719	0.19725327
Micall1	1081.43574	0.60906361	0.27693878	2.19927171	0.02785861	0.15233095
Ankrd35	2803.733	0.60837042	0.2777759	2.19014833	0.02851348	0.15484434

Capns1	31153.2308	0.60809035	0.28049883	2.16788906	0.03016713	0.15994852
Parp8	61.1101269	0.60808328	0.42041528	1.44638718	0.14806863	0.41292308
Scand1	843.477793	0.60803746	0.26726469	2.27503853	0.02290362	0.13501674
Rbms3	4.35419402	0.60782499	0.37404449	1.62500721	0.10416102	NA
Pnp2	267.933741	0.6076699	0.37032401	1.64091414	0.10081524	0.33279315
Fzd3	409.04352	0.60763601	0.31969899	1.90065041	0.05734782	0.23881336
Ovol3	10.6092492	0.60716274	0.43076385	1.40950256	0.15868662	0.42902218
Pla2g12a	781.665204	0.60708333	0.32455365	1.87051765	0.06141197	0.24957474
Pcdhga5	27.8776684	0.60702778	0.41365079	1.46748851	0.14224321	0.40302949
Gm13128	1409.07823	0.6061851	0.26034629	2.32838004	0.01989193	0.12344853
Tril	76.3975419	0.60616203	0.43219153	1.40253101	0.16075674	0.43208565
Slc6a14	3.84634708	0.6060437	0.33103315	1.83076436	0.06713572	NA
Fam115c	92.8858644	0.60528806	0.30916234	1.95783245	0.05024968	0.22043236
Ica1	473.189457	0.60528359	0.35498943	1.70507498	0.08818044	0.30918323
Ttc39c	1206.51165	0.60514913	0.39323867	1.53888509	0.12383235	0.37568579
Rassf9	3.42262122	0.60459829	0.34662227	1.74425688	0.08111431	NA
Tmem141	292.089099	0.60373184	0.26883415	2.24574085	0.02472061	0.1416315
Cxcl1	4.62535909	0.60358598	0.34127945	1.76859752	0.07696107	NA
Kbtbd13	44.2833505	0.60310188	0.41185469	1.46435598	0.14309671	0.40432552
Sybu	5.10836283	0.60297519	0.4054211	1.4872812	0.13694056	NA
Pxdn	296.472505	0.60292656	0.37844229	1.59317967	0.11111989	0.35251437
4930539J05R	9.73213086	0.60265286	0.4312447	1.39747307	0.16227136	0.43365074
Gm364	629.640033	0.60211806	0.31636892	1.90321496	0.0570125	0.23814167
Snta1	1480.75436	0.60192031	0.23544879	2.55648083	0.01057369	0.08021046
Serpinf1	374.907203	0.60182123	0.36465187	1.6503994	0.09886127	0.32887155
Rab40b	33.1993983	0.60144322	0.41328473	1.45527566	0.14559296	0.40898052
Usp17lc	34.8154188	0.60128086	0.42871628	1.40251463	0.16076162	0.43208565
Arhgap27	563.218923	0.60116316	0.21484637	2.79810708	0.00514031	0.04789509
Oacyl	17.6300146	0.60114384	0.4322483	1.39073731	0.1643051	0.43721913
Gm5	482.597528	0.60114051	0.29754254	2.02035147	0.04334694	0.20074101
A630019I02R	6.75519167	0.60064396	0.40421544	1.48595008	0.13729233	0.39568649
Smim14	3615.65491	0.60050339	0.27344118	2.19609711	0.02808499	0.15324552
2010111I01R	2565.81939	0.60043966	0.21585209	2.78171803	0.0054072	0.04999249
1700020L24F	3.34743138	0.6001619	0.34614445	1.73384812	0.08294503	NA
Pygb	4668.66091	0.59978254	0.24299273	2.46831473	0.01357509	0.09496457
Alg2	2375.01475	0.59971137	0.21294697	2.81624757	0.00485882	0.04593284
5031414D18I	13.1609949	0.59960741	0.43136523	1.39002258	0.16452202	0.43755954
Abca4	16.9351997	0.59942203	0.42586811	1.40752976	0.15927036	0.43014212
Cmb1	55.6501187	0.59937444	0.39891877	1.50249746	0.13296868	0.38977816
Nlrp4f	6765.2754	0.59927909	0.30908025	1.93891102	0.05251217	0.22668842
Fmnl2	3758.05069	0.59915842	0.29923256	2.0023169	0.04525066	0.20630109

Slc6a7	649.321661	0.59907257	0.22546913	2.65700489	0.00788383	0.06573804
Dfna5	133.034772	0.59882439	0.33660741	1.77899944	0.07523985	0.28064941
Nudt5	4439.88367	0.59863792	0.30278482	1.97710679	0.04802956	0.21432071
Enpp4	1141.44265	0.59856462	0.35110202	1.70481681	0.0882286	0.30918323
Pnoc	3.72029661	0.59847657	0.38038838	1.57333032	0.11564235	NA
Abtb2	398.910744	0.59836757	0.34188553	1.7501986	0.08008405	0.29193321
Ptplb	3615.52467	0.59811009	0.18961189	3.15439123	0.00160833	0.0206363
Prr13	4070.18609	0.59783663	0.20137752	2.96873571	0.00299028	0.0327247
lah1	2181.14159	0.59782328	0.23631769	2.52974404	0.01141458	0.08456793
Wfdc10	15.3500846	0.59781091	0.42803135	1.39665214	0.1625182	0.43388979
Dnmt3l	3261.76042	0.59776738	0.32998229	1.81151351	0.0700614	0.26955092
B230217C12f	285.146938	0.59769533	0.2658778	2.24800768	0.0245757	0.14107668
Ppa1	17180.4444	0.59761815	0.20702637	2.88667642	0.00389334	0.03923875
Zfp326	2518.15244	0.59758608	0.26545717	2.25115817	0.02437552	0.14032901
Gm13083	5.56984655	0.59753859	0.35762916	1.67083297	0.09475467	NA
Abcb9	39.5097798	0.59751107	0.417643	1.43067423	0.1525236	0.42010176
Il17rb	24.2369239	0.5971295	0.40265482	1.48298114	0.13807942	0.39712837
C530008M17	164.668456	0.59703365	0.34004447	1.75575167	0.07913082	0.29028477
Csmd3	2.91278257	0.59674276	0.33034506	1.80642254	0.07085236	NA
Hoxa11os	8.02348336	0.59653072	0.3766436	1.58380684	0.11323768	0.35655018
Slc22a13	14.5993047	0.59634249	0.42975814	1.38762348	0.16525173	0.43861233
Noxred1	681.088195	0.59627924	0.20189891	2.95335542	0.0031434	0.03387594
Egf	68.9419522	0.59622561	0.31303969	1.90463265	0.05682784	0.23756811
Hoxc8	39.1066434	0.59599656	0.43178203	1.38031813	0.16748872	0.44231821
Gm15441	41.9704977	0.59595854	0.39937879	1.4922138	0.13564311	0.39328705
Rfx5	2811.83735	0.59547991	0.16621828	3.58251761	0.0003403	0.00648528
Pard3b	35.0200205	0.59547916	0.42672534	1.39546237	0.16287645	0.43462627
C330018D20l	752.29358	0.59493121	0.25639509	2.32036898	0.02032093	0.12525197
Plk2	3672.6419	0.59479268	0.2334879	2.54742398	0.01085215	0.08140944
Nudt6	96.7254507	0.59476678	0.29913012	1.98832127	0.04677617	0.2102359
Wbp1l	3501.0838	0.59411069	0.20486201	2.90005303	0.003731	0.03797167
Dpm2	2100.73793	0.59370437	0.2060271	2.88168101	0.0039556	0.03962162
Spata31d1a	163.422114	0.59353835	0.28743639	2.06493805	0.03892886	0.18833006
Kcnt2	116.506887	0.5934422	0.37033532	1.6024456	0.10905711	0.34903212
4930405A21f	12.2483596	0.59326934	0.43227159	1.37244581	0.1699247	0.44511837
Klk9	6.05546261	0.59319493	0.41483076	1.42996851	0.15272606	0.42030588
Kbtbd7	1175.39385	0.59307566	0.25039035	2.36860428	0.01785535	0.11450844
Acsf5	1354.15155	0.59300477	0.21207553	2.79619609	0.0051708	0.04815038
Zfp27	614.779496	0.5929868	0.25595017	2.31680563	0.02051432	0.12577215
Kcnj3	9.80036268	0.59273816	0.40645011	1.45832944	0.14474976	0.40736725
Nutm1	74.8549413	0.59249622	0.36253702	1.63430544	0.10219473	0.3358847

Wdr5b	103.985758	0.59249444	0.30970848	1.91307141	0.05573891	0.23498367
Glrb	215.367946	0.59187038	0.40014236	1.47914951	0.13910036	0.39888433
B4galnt1	861.783462	0.59168172	0.30914649	1.9139202	0.05563035	0.23470093
Atp13a4	14.4049614	0.5916326	0.40111214	1.47498054	0.14021778	0.4003272
Mep1a	2.9486704	0.59153779	0.32928735	1.79641817	0.07242804	NA
Slc44a2	4469.4993	0.59099228	0.15951088	3.70502794	0.00021137	0.004466
Paqr4	403.390669	0.59098152	0.25645173	2.30445518	0.02119711	0.12881446
Gata3	51.0694282	0.59096566	0.4320657	1.36776806	0.17138469	0.44770759
Epb4.1l1	3937.95202	0.59071288	0.19497169	3.02973674	0.00244767	0.02825814
Wdfy1	3048.4935	0.59041649	0.34574037	1.70768747	0.08769435	0.30833385
Tsc22d1	20384.6219	0.58998379	0.1851721	3.18613767	0.00144186	0.01906663
Ly96	50.9013587	0.589946	0.38502463	1.53222923	0.12546588	0.37863766
Dmbt1	9.64321122	0.58994164	0.42235697	1.39678442	0.16247841	0.43388979
Kcnd1	278.92486	0.58935009	0.32801073	1.7967403	0.07237686	0.27431941
Dynlt1b	212.324303	0.58850581	0.30560371	1.92571556	0.0541399	0.23059991
Eva1a	301.067792	0.58841422	0.378173	1.55593925	0.11972254	0.36825776
Slc12a5	119.545379	0.58819578	0.34726231	1.69380829	0.09030172	0.31312835
Casq1	54.6462001	0.58751716	0.42983725	1.36683632	0.17167661	0.4479452
Smarca1	455.820639	0.58748937	0.21733395	2.70316421	0.00686828	0.05917376
Itprp	242.545873	0.58732936	0.25983758	2.26037109	0.02379823	0.13819502
Syt16	12.9367507	0.58595037	0.43226872	1.35552344	0.17525085	0.45309298
Vstm2a	31.2777035	0.58567919	0.42612272	1.37443785	0.16930579	0.44438521
Slc5a4a	5.73049467	0.58554599	0.40444983	1.44775926	0.14768439	NA
1110065P20F	909.661023	0.5851108	0.24278018	2.41004352	0.01595062	0.10575075
Pdzd3	37.2444687	0.58509506	0.39149621	1.49451017	0.13504233	0.39257426
Pik3ap1	17.2007442	0.58484602	0.4316306	1.35496884	0.17542748	0.45309298
Etfdh	2622.20472	0.58484575	0.17971415	3.25431102	0.00113668	0.01605493
Gm17801	5.06819691	0.58441703	0.40517059	1.44239747	0.14919028	NA
Myh7	34.0418242	0.5843896	0.40776789	1.43314275	0.15181705	0.418749
Ust	317.20035	0.58432804	0.39082068	1.49513081	0.13488031	0.39242882
Prss32	7.61544655	0.58413674	0.42088761	1.38786871	0.16517703	0.43856476
Pi4k2a	5183.17939	0.58367454	0.17449891	3.3448606	0.00082324	0.0127639
Mbnl2	2062.27893	0.5836398	0.23136506	2.52259268	0.01164932	0.08549252
Alox12	478.257188	0.58346418	0.36329528	1.60603291	0.10826668	0.34760762
Capn3	460.233375	0.58325631	0.28276611	2.06268106	0.03914294	0.18892361
Olf1503	7.15512312	0.58307268	0.40137422	1.45269091	0.14630959	0.4103691
Pou4f1	416.686467	0.58305243	0.2133316	2.73308053	0.0062745	0.05540871
Qsox1	1038.62179	0.58299067	0.27795013	2.09746497	0.03595244	0.17992732
Foxd2os	16.7656606	0.58293777	0.42646491	1.36690679	0.17165452	0.4479452
Btbd17	14.0321044	0.58265085	0.43101488	1.35181147	0.17643563	0.45396269
Mir3064	251.222678	0.5821598	0.26103167	2.23022665	0.0257324	0.14503971

Gm13078	14.0248726	0.58202511	0.36327403	1.60216549	NA	NA
Clnk	12.2940148	0.58197885	0.43146558	1.34884189	0.17738776	0.45490716
Phyhipl	222.835335	0.58196588	0.27518307	2.11483172	0.03444429	0.1744198
Mdga1	352.19106	0.58196337	0.38425251	1.51453366	0.12989054	0.38540886
Gm10639	22.4732237	0.58151391	0.43097082	1.34931157	0.17723691	0.45473338
Sgcd	35.2949227	0.58146487	0.43212821	1.34558416	0.17843666	0.45619849
Tpo	20.2219838	0.58107737	0.42265076	1.37484047	0.16918091	0.44426415
Gm44	42.7608214	0.5809745	0.42542966	1.36561824	0.17205882	0.44871485
2300009A05f	162.615017	0.58066907	0.29429156	1.97310816	0.04848324	0.21554113
Ankdd1b	4.79186123	0.58046754	0.37546036	1.54601552	0.12210082	NA
Pdlim3	12.4779648	0.58036553	0.4283987	1.35473225	0.17550288	0.45313719
Barx1	39.4465993	0.58030793	0.41332205	1.40400911	0.16031614	0.43166
Ccdc71l	457.724344	0.58011774	0.24973163	2.32296457	0.02018106	0.12475195
Tmem185b	1764.92111	0.58009528	0.17025171	3.40728013	0.00065614	0.01074063
Gm14057	112.422396	0.58008005	0.31673893	1.83141378	0.06703881	0.26304109
Mgp	4.21404829	0.58006984	0.32577992	1.78055735	NA	NA
Vill	484.306944	0.58003957	0.21987005	2.63810183	0.00833715	0.06834533
Angptl6	356.833873	0.58000141	0.27805107	2.08595285	0.03698289	0.18247163
Ksr2	68.3354605	0.57994678	0.35655493	1.62652859	0.10383726	0.33919327
Trerf1	1070.47859	0.57978012	0.23945374	2.42126144	0.01546675	0.10349545
Pnrc1	2883.71836	0.57920359	0.21971367	2.63617455	0.00838466	0.06862623
4732490B19f	5.78084735	0.5791762	0.38999147	1.48509966	0.13751743	NA
Mical2	43.5104275	0.57901952	0.39106952	1.48060509	0.13871184	0.39807358
Ttc36	3.95556782	0.57877244	0.38934275	1.48653708	0.13713712	NA
Ctsw	171.205184	0.57838221	0.30928023	1.87009111	0.06147117	0.2497226
Plk3	907.737829	0.57830131	0.21295208	2.71564058	0.00661477	0.0576928
Fam122a	395.374387	0.57807618	0.23444648	2.46570635	0.01367434	0.09541904
Clnkb	665.234717	0.57801689	0.24439285	2.36511374	0.01802453	0.11537259
Fbxo44	439.270633	0.57770556	0.32186015	1.79489616	0.07267025	0.27476678
Gm6792	1505.26005	0.57761417	0.31491212	1.83420748	0.0666232	0.26182902
Tmbim1	2587.09305	0.57756821	0.17586029	3.28424473	0.00102256	0.01480619
Thbs1	125.115414	0.57732158	0.3478184	1.65983622	NA	NA
Adra2a	16.8817489	0.57721583	0.42797415	1.34871658	0.17742802	0.45493538
Lrrc1	1250.06973	0.57710095	0.17316155	3.33273149	0.00085998	0.01313707
Saa2	74.5767122	0.5766501	0.40626628	1.4193895	0.15578549	0.4243942
Erf	6979.29772	0.57626776	0.18935147	3.04337624	0.0023394	0.0273328
Lrrc49	627.710458	0.57623557	0.23387678	2.46384255	0.01374565	0.09547055
Al413582	468.566018	0.57590086	0.30859385	1.86620979	0.06201202	0.25096937
Ociad2	537.634321	0.57561655	0.2294641	2.5085255	0.01212362	0.08801795
Minos1	5848.35231	0.57561136	0.21004435	2.7404277	0.00613593	0.05452561
Dzip1l	752.80992	0.5751531	0.25647333	2.24254544	0.02492614	0.14230045

Rpl30	51.3577842	0.57486329	0.34175077	1.68211267	0.09254699	0.31679469
Pcdhgb2	53.4640416	0.57481709	0.38588535	1.48960589	0.13632789	0.39420511
Kif5c	1504.43627	0.57452968	0.17698104	3.24627821	0.00116925	0.01644026
Gm19897	11.2543507	0.57452572	0.37842202	1.51821427	0.12896039	0.38379957
2300002M23	1607.93084	0.57442338	0.34758055	1.65263388	0.0984054	0.32810942
Cd244	21.1947318	0.57374033	0.43091353	1.33145117	0.1830406	0.46313732
Epx	71.0991357	0.5736666	0.38219023	1.50099756	0.13335619	0.39033562
Fuca1	3752.26723	0.5732676	0.19304683	2.96957794	0.00298209	0.03269577
Wscd1	271.264761	0.57294034	0.3860697	1.48403344	0.13780005	0.39657388
A230072C01f	237.226901	0.57285221	0.29078448	1.97002329	0.0488357	0.21621299
Tmem200b	169.783347	0.57264136	0.38390202	1.49163412	0.13579509	0.39346924
Cmtm3	767.606101	0.57178623	0.23061637	2.47938271	0.013161	0.09262695
Mccc1os	8.75671476	0.57171987	0.41985537	1.36170668	0.17329047	0.45071973
Hpdl	1147.42904	0.57170232	0.21502971	2.65871316	0.00784397	0.06551106
Ccne1	10270.6139	0.57153396	0.21076099	2.7117635	0.00669263	0.05827387
Gjd3	10.7204641	0.57124465	0.42493585	1.34430798	0.17884882	0.45692097
Smox	1954.96293	0.57110779	0.22700937	2.51578949	0.01187661	0.08670295
Fam159b	12.9722209	0.57028972	0.39705693	1.43629205	NA	NA
Pgp	3017.27644	0.56978261	0.21044668	2.70749152	0.00677938	0.05866229
Bscl2	2192.98212	0.5697197	0.2250929	2.53104253	0.01137241	0.08433585
1700028i16R	39.8113522	0.56962502	0.4290031	1.32778765	0.18424827	0.4644599
Pkib	8.05266272	0.56959165	0.41346826	1.3775946	0.16832849	0.44322322
1700113A16f	68.6355253	0.56955338	0.3327641	1.71158302	0.08697354	0.30681806
Gm1673	49.0526281	0.56939529	0.41635218	1.36758091	0.1714433	0.44778547
0610040F04F	208.575608	0.56917615	0.38354305	1.48399546	0.13781012	0.39657388
Rab31	2320.5808	0.56913551	0.26207397	2.17165983	0.02988133	0.15907484
Hint3	600.26017	0.56909608	0.23797766	2.3913845	0.01678496	0.10967352
Baz1a	4969.18963	0.56893974	0.27366296	2.07897971	0.03761922	0.18431519
Gys1	6595.85352	0.56873006	0.25574939	2.22377874	0.02616333	0.14624947
Kcnj14	18.1487933	0.56871088	0.43215487	1.31598861	0.18817787	0.46953088
Fbxw4	515.28908	0.56862634	0.25341293	2.24387261	0.0248406	0.14201225
Ppp3ca	2489.14437	0.56831979	0.26430202	2.15026657	0.03153413	0.16500059
Abra	13.1867617	0.56822531	0.43173115	1.31615545	0.18812187	0.46950461
Gpr156	10.0643673	0.56812215	0.42894898	1.32445158	0.18535311	0.46595793
Plac1	7.84078337	0.5680976	0.40025614	1.41933515	0.15580133	0.4243942
Tmem59	13201.415	0.56806679	0.23414481	2.42613447	0.01526061	0.10269053
Otulin	1644.55605	0.5678713	0.17469334	3.25067515	0.00115131	0.01624689
Ttc9b	102.687132	0.5678195	0.30604467	1.85534841	0.06354649	0.25483194
Mt2	19423.7766	0.56772803	0.28548905	1.98861578	0.04674363	0.2102359
Amhr2	564.334399	0.56765274	0.27221614	2.08530156	0.03704194	0.18252191
Myh8	3.75224171	0.56753341	0.35236287	1.61065041	0.10725594	NA

Slc4a4	192.212123	0.56747593	0.42414884	1.33791698	0.1809235	0.45954106
Cdc20b	23.5984158	0.56722139	0.40511643	1.40014412	0.16147017	0.43248752
1700111N16l	7.90001858	0.56692295	0.40040786	1.41586367	0.15681542	0.42609701
Rhoh	17.160658	0.5668542	0.4252591	1.33296196	0.18254429	0.46226123
Strip2	998.865103	0.56670971	0.43221813	1.31116598	0.18980169	0.47143981
Atad3aos	24.8948344	0.56644645	0.41739202	1.35710894	0.1747466	0.45238627
Ctcf1	21.4081779	0.56626251	0.42416012	1.33502063	0.18186959	0.4610031
Adad1	9.55558345	0.56612865	0.4038672	1.40176932	0.16098414	0.43209007
Ltb4r2	56.7554717	0.56612348	0.37941395	1.49209979	0.13567299	0.39328705
Sobp	261.882624	0.56563984	0.40377445	1.4008807	0.16124975	0.43227306
Cul7	4755.99373	0.56557495	0.19343859	2.9237958	0.00345792	0.03613847
Smtnl1	1380.26429	0.56525233	0.39418586	1.43397414	0.15157964	0.41871751
4930507D05l	15.2164604	0.56517539	0.43131716	1.31034756	0.19007828	0.47176806
Hyi	116.697321	0.56493276	0.33061419	1.70873719	0.08749964	0.30785998
Pnmal1	15.2162809	0.5648944	0.431659	1.30865892	0.19064991	0.47277895
Rimbp3	239.195718	0.56483435	0.302706	1.86595029	0.06204832	0.25096937
Fam171a1	638.952719	0.56434078	0.27176819	2.076552	0.03784293	0.1850873
Wnt3	31.4345378	0.5641816	0.42785379	1.31863177	0.18729225	0.46841134
1600029O15l	3.77439662	0.56397284	0.37117005	1.51944599	0.12865027	NA
Sgsm3	2242.86677	0.5637594	0.19083559	2.95416277	0.00313519	0.0338344
Dkk4	4.69090316	0.56237466	0.39457918	1.42525174	0.15408445	NA
Porcn	1015.01312	0.56230196	0.42750628	1.31530689	0.18840678	0.46953748
4930579G18l	13.9333968	0.562158	0.43187201	1.3016773	0.19302672	0.47565108
Zmat1	55.80454	0.56211333	0.40173965	1.39919803	0.16175361	0.43279944
Amdhd2	2567.03013	0.56206691	0.21759264	2.58311548	0.00979125	0.07624627
Sh3bp2	232.53766	0.56194488	0.247163	2.27358008	0.02299125	0.13522575
Usp18	2.96067986	0.56182956	0.34101752	1.64750937	0.09945339	NA
Krt23	3.17139178	0.56168386	0.33952676	1.65431398	0.09806373	NA
Tnfrsf11a	72.1926577	0.56132409	0.38088314	1.4737436	0.14055064	0.40079365
Cnm1	97.3892832	0.56117315	0.40612437	1.3817766	0.16704031	0.44162595
Trmt12	466.929807	0.56115801	0.24118387	2.32668135	0.01998223	0.12390099
Gm11544	25.8837237	0.56084246	0.43184463	1.29871353	0.19404226	0.47678166
Sez6l2	54.780118	0.56079166	0.37046739	1.51374097	0.13009155	0.38573995
Lpp	897.671822	0.56065186	0.31342841	1.78877167	0.0736516	0.27716036
Aebp2	10805.0263	0.56062888	0.19419749	2.88690073	0.00389057	0.03923622
Hoxc10	88.200232	0.5602648	0.29971769	1.86930845	0.06157991	0.24996848
LOC1005047l	90.9771366	0.56013574	0.33138848	1.69026918	0.09097647	0.31400004
Kcne1l	3.92622847	0.56006033	0.37151234	1.50751474	0.13167877	NA
Scd3	244.698024	0.5600329	0.25294294	2.21406814	0.02682409	0.14850176
Lphn2	899.74252	0.55999585	0.31214042	1.79405102	0.07280503	0.27513753
Gas2l2	9.39599735	0.5597526	0.42540687	1.31580525	0.18823942	0.46953088

Ankef1	8.02268641	0.55972585	0.4143224	1.35094275	0.17671377	0.45422741
Agpat4	663.061451	0.5591559	0.22983808	2.43282537	0.01498152	0.10138281
4930467D21I	11.1092558	0.55852611	0.41692892	1.33961951	0.18036908	0.45896455
Polr2l	366.160229	0.55846377	0.25535989	2.18696744	0.0287449	0.15542836
Mtnr1a	7.42437014	0.55821864	0.40357123	1.38319731	0.16660437	0.44114841
Atp2a2	31800.5023	0.55798061	0.21617026	2.58120892	0.0098455	0.07662515
Nlrp10	9.19488924	0.55794912	0.409455	1.36266285	0.17298879	0.45019458
Nhsl2	293.01018	0.55794315	0.31532114	1.76944415	0.07681978	0.28450213
Piezo2	25.5043546	0.55788703	0.43044535	1.29606936	0.19495159	0.47789096
Dlec1	49.4289237	0.55765928	0.38348707	1.45418015	0.14589637	0.4096848
D630033O11	10.7715978	0.55758914	0.42696877	1.3059249	0.1915781	0.47409787
Gpr87	5.73245092	0.55720662	0.38503752	1.44714887	0.14785523	NA
Gmppb	1821.11525	0.55672875	0.21183793	2.62808817	0.00858663	0.06980168
Spa17	102.479955	0.55667256	0.36961363	1.50609317	0.13204326	0.38852168
Snrpn	12.4236347	0.55662043	0.43223493	1.28777289	0.19782503	0.48094783
Fam26e	463.535906	0.55651855	0.23292182	2.38929338	0.01688082	0.10998951
Frmpd3	5.10840413	0.55645464	0.38199157	1.45671967	0.14519378	NA
Nfkb2	1200.39924	0.55607474	0.22122685	2.51359515	0.01195075	0.08704739
7420426K07F	3.95403623	0.55600244	0.34819686	1.59680488	0.11030921	NA
Il25	17.4752542	0.55572505	0.42850866	1.29688173	0.19467188	0.4775284
Fbxo36	334.533383	0.55539252	0.27589598	2.01305043	0.04410932	0.20290225
Rmrp	76.5657119	0.55535738	0.36494705	1.52174783	0.12807228	0.38211884
Thbd	37.215071	0.55528316	0.39041983	1.42227194	0.15494732	0.42364842
Rnf13	4013.92953	0.55522818	0.25869256	2.14628587	0.03185018	0.16615301
BC031361	34.2693354	0.55484754	0.42312768	1.31130052	0.18975625	0.47143981
B3gnt4	17.9419085	0.55474917	0.42732542	1.29818902	0.19422239	0.47688873
Stat1	1532.50223	0.55460166	0.24411366	2.27189938	0.02309259	0.1357311
Usp17le	53.6989729	0.55455734	0.42539819	1.30361941	0.19236338	0.4751259
Slc25a34	113.854191	0.55454758	0.36751934	1.50889359	0.13132598	0.38745025
Cd63	10293.5887	0.55438907	0.21992837	2.52077107	0.0117098	0.08585531
Atp6v1a	29318.732	0.55434409	0.193081	2.87104417	0.00409118	0.04042058
Mmp21	7.45582879	0.55432649	0.42095925	1.31681747	0.18789981	0.46932702
Sh3gl3	1120.78793	0.553529	0.20438178	2.70830888	0.0067627	0.05862142
Frat1	313.934454	0.55351399	0.32653941	1.69509091	0.09005818	0.31253583
Tmem247	3.31430624	0.55333499	0.34037143	1.62567989	0.10401777	NA
Gmpr	690.1473	0.55318076	0.24099279	2.29542454	0.02170881	0.13039538
lqsec2	342.264612	0.55305673	0.24716551	2.23759674	0.02524736	0.14341894
Gm10714	4.27463677	0.55304006	0.39733928	1.39185852	0.16396524	NA
Adamts2	116.069387	0.55299652	0.40924996	1.35124393	0.17661731	0.45416588
Dlgap2	30.7912803	0.5529448	0.39291804	1.40727772	0.15934505	0.43014212
Gng11	3.15344786	0.55283612	0.33774609	1.63683943	0.10166402	NA

Lhx9	4.39621091	0.55280122	0.33337881	1.65817742	0.09728166	NA
Psmb8	8.89661148	0.551905	0.41194714	1.33974716	0.18032756	0.45896455
Stx4a	2571.05024	0.55159342	0.22958916	2.40252377	0.01628238	0.10742776
Slc2a9	66.2651994	0.55144282	0.42740244	1.29021916	0.19697458	0.48019308
Ciart	500.881016	0.55144191	0.21721122	2.53873585	0.01112538	0.0830186
Nov	12.6134628	0.55140635	0.42300707	1.30353932	0.1923907	0.4751259
4930502E18F	234.738783	0.55126972	0.42223531	1.30559836	0.19168918	0.47424147
Hspa4l	365.067568	0.55123336	0.31270578	1.76278594	0.0779366	0.28706586
Sema5b	803.125414	0.5511658	0.26977526	2.04305544	0.04104695	0.19412676
Gm16853	8.74311605	0.55104409	0.42722106	1.28983364	0.19710843	0.48021826
Rinl	2635.77562	0.55099832	0.24281713	2.26919048	0.02325675	0.1362857
Hrk	239.64631	0.55078294	0.35751801	1.54057396	0.12342051	0.37515879
Adam1a	35.3526022	0.55075796	0.3935107	1.39960097	0.16163284	0.43260337
Rab4a	2469.91191	0.55029663	0.25383596	2.16792225	0.0301646	0.15994852
Camk4	16.7349433	0.55016558	0.43083467	1.27697611	0.20161068	0.48593424
Adamts6	7.97653055	0.54971516	0.32628651	1.68476215	0.09203447	0.31594438
Xrra1	19.1356236	0.54907439	0.43052663	1.27535524	0.20218353	0.48692251
Slc51a	461.19563	0.54851115	0.25103439	2.18500405	0.02888855	0.15582582
Vmn2r84	3.15994834	0.54828598	0.33660005	1.62889454	0.10333535	NA
4732416N19I	8.76164891	0.54827801	0.42515646	1.28959115	0.19719265	0.48031705
4931406H21I	3.66086959	0.54825922	0.34897479	1.57105681	0.11616945	NA
Cisd3	2789.25061	0.54824713	0.27431194	1.99862656	0.04564877	0.20760832
Ddr1	1322.7386	0.54821093	0.26701087	2.05314086	0.04005892	0.19132821
Scx	11.5071637	0.54820372	0.42715141	1.28339437	0.19935394	0.48250548
Cd97	6133.57888	0.54818525	0.35802731	1.5311269	0.12573803	0.37885621
Faah	341.792008	0.54809725	0.28467678	1.9253318	0.05418786	0.23061725
Rbm20	513.784343	0.54802641	0.37452404	1.46326099	0.14339598	0.40478324
Acaa1b	125.336612	0.5479166	0.35512176	1.54289787	0.12285556	0.37409962
Batf3	13.7752097	0.54760598	0.43031866	1.27255923	0.20317449	0.48758743
Snap91	841.259029	0.54758577	0.22495543	2.43419676	0.01492488	0.10113151
Pcdhga4	62.1838146	0.54748681	0.32895348	1.66432896	0.09604671	0.32385567
Fabp6	8.89961014	0.5474499	0.42021859	1.30277411	0.19265189	0.47546891
Ccdc38	148.520246	0.54738383	0.29401654	1.86174504	0.06263904	0.25248825
B3galt6	614.201256	0.54716719	0.20335069	2.69075647	0.00712902	0.06088051
Apob	33.0861587	0.54692937	0.42333831	1.29194395	0.19637656	0.47933634
Olfml2b	42.5471409	0.54687156	0.43222651	1.26524297	0.20578424	0.49060786
Ripply3	57.768939	0.54678491	0.40702381	1.34337328	0.17915113	0.45716759
Nlrc3	46.4121927	0.54671615	0.39682862	1.37771348	0.16829177	0.44322322
Hoxd4	75.4139788	0.5466846	0.37860534	1.44394319	0.14875496	0.41375216
Rapgef5	536.797826	0.54639575	0.37820463	1.44470932	0.14853955	0.41357758
Gba	2674.90591	0.54626474	0.18041617	3.02780367	0.00246338	0.02829249

Btbd10	3304.82217	0.54588082	0.20052015	2.72232406	0.00648245	0.05669778
Gm684	10.5674527	0.54585288	0.42853891	1.27375337	0.20275084	0.48733798
Plagl1	12125.8492	0.54572531	0.28945503	1.88535437	0.05938201	0.24449289
Gucy1b2	4.33523725	0.54566538	0.39290173	1.38880879	0.1648909	NA
Aifm2	1296.82135	0.54523719	0.24776762	2.2005991	0.02776442	0.15193025
5830428M24	2.81678077	0.54520475	0.32007834	1.70334784	0.08850299	NA
Crip2	1677.69144	0.54484192	0.21023949	2.59152992	0.00955502	0.07485651
Gucy2g	23.0838581	0.54472665	0.42186823	1.29122463	0.1966258	0.47964357
Spns1	6924.79265	0.54444155	0.23126872	2.35415129	0.01856505	0.11740754
Spp1	104375.58	0.54439997	0.24598627	2.21313157	0.02688858	0.14875285
Tifab	219.872299	0.54436689	0.40197437	1.35423281	0.17566211	0.45324731
Evx1	22.0185091	0.54365807	0.43226748	1.25768903	0.20850424	0.49435119
Trp53rk	210.856498	0.54348611	0.25150105	2.16096957	0.03069769	0.16176637
BC080695	21.1270245	0.54340024	0.39056965	1.39130175	NA	NA
1700097N02I	849.419813	0.54336118	0.21829702	2.48909114	0.01280701	0.09089998
Myot	77.3821515	0.5432734	0.31885557	1.70382281	0.08841419	0.30966373
Rnf217	211.685466	0.54289518	0.39822328	1.3632934	0.17279006	0.44986744
H2-Q4	573.102596	0.54271524	0.31203893	1.7392549	0.08198994	0.29610439
Grin2d	60.3856226	0.54220316	0.35032512	1.5477142	0.12169112	0.37157248
C130074G19I	3670.15773	0.54184277	0.2815435	1.9245437	0.05428647	0.23090918
Mycbpap	5.39774373	0.5418296	0.39030782	1.388211	0.1650728	NA
Lrfn5	4.55066812	0.54180289	0.3739225	1.44897108	0.14734566	NA
Wnt16	7.24727205	0.54170087	0.4159848	1.30221314	0.19284353	0.47556451
Speg	65.6723294	0.54163049	0.37396765	1.44833517	0.14752334	0.4121695
A230070E04F	103.7785	0.54159016	0.37625411	1.43942656	0.1500297	0.41610699
Lonrf2	96.6381985	0.54137259	0.40064249	1.35126105	0.17661183	0.45416588
A930001C03I	69.3951304	0.54131602	0.34087591	1.58801491	0.11228297	0.3545406
Phactr2	1541.60551	0.54109744	0.17182074	3.14919746	0.0016372	0.02090314
F630042J09R	94.3510645	0.54106819	0.30619072	1.76709533	0.07721226	0.28547977
Crybg3	360.493363	0.54087099	0.30226813	1.78937483	0.07355447	0.27714546
Angptl7	3.05072156	0.54053968	0.31880192	1.69553461	0.08997405	NA
Tagln3	539.54991	0.54043169	0.39743866	1.3597864	0.17389753	0.45108931
Snx32	111.756502	0.54004573	0.34759127	1.55368034	0.12026068	0.36901616
Trim7	519.422814	0.5399578	0.310592	1.73847942	0.08212637	0.29639063
Dppa2	4655.55996	0.53987352	0.37829155	1.42713607	0.15354068	0.42141036
Gstt3	588.274544	0.53972816	0.26831831	2.01152189	0.04427036	0.20344219
Arl4d	635.59482	0.53941713	0.26445969	2.03969511	0.0413807	0.19532548
Cndp1	23.5872093	0.53934301	0.4293089	1.25630523	0.20900533	0.49516588
Wbscr17	94.3237438	0.53904308	0.42242976	1.27605376	0.20193651	0.48641802
Adamts7	654.339486	0.53898436	0.27010553	1.99545845	0.0459929	0.20850713
Tmem92	62.8741527	0.53870411	0.43083081	1.25038436	0.21115918	0.4978306

Slc35d2	667.597158	0.53846585	0.37349313	1.44170218	0.14938641	0.41498893
Lcmt2	785.653609	0.53844506	0.20887657	2.57781459	0.00994273	0.07718724
Pm20d1	929.18115	0.53817919	0.23361844	2.30366744	0.02124132	0.12895942
5430417L22F	686.450525	0.53816152	0.35494052	1.51620197	0.12946829	0.38455938
1700086O06l	58.983101	0.53696511	0.3630946	1.47885733	0.13917845	0.39898766
Gm14005	27.6867424	0.53647744	0.41449393	1.29429504	0.19556353	0.47847835
Flnc	222.419749	0.53644206	0.3249445	1.65087289	0.09876453	0.32874299
Ankrd1	4.15935406	0.53639408	0.3423598	1.56675543	0.11717187	NA
Mir1291	18.0871919	0.53619857	0.42639309	1.25752172	0.20856478	0.49441934
Srms	10.9832147	0.53596281	0.43064885	1.24454716	0.21329825	0.5002449
Mfsd7b	901.564978	0.53594917	0.23290405	2.30115867	0.02138266	0.12925061
Fam227a	49.9335772	0.53590239	0.35551616	1.5073925	0.13171008	0.38821521
Slamf9	39.6598006	0.53584245	0.42343614	1.26546224	0.20570567	0.49055804
4930577N17l	20.1500989	0.53487485	0.42520114	1.2579337	0.20841574	0.49429207
Ager	26.2856156	0.53475405	0.4222445	1.26645594	0.20534989	0.4903111
Gm8909	1442.27349	0.53474956	0.38552185	1.38707975	0.16541745	0.43892642
Nox4	278.738108	0.5343084	0.26843641	1.99044681	0.04654174	0.20987956
Wif1	41.3009931	0.53422317	0.4075512	1.3108124	0.18992115	0.47164815
Park2	15.6087281	0.53371262	0.43115375	1.23787075	0.21576399	0.50281353
Gnb5	382.803599	0.53369594	0.25990199	2.05345076	0.04002888	0.19132821
Pgc	1008.42171	0.53365422	0.20335129	2.62429713	0.0086828	0.07025298
Myo6	2408.72342	0.53353469	0.24239241	2.20111965	0.02772755	0.15193025
Ndufaf2	1917.50042	0.53308025	0.20931633	2.54676856	0.01087255	0.08148388
Zbtb40	1569.94336	0.53258262	0.24392311	2.18340371	0.02900609	0.15618897
Bmp2	17.1005857	0.53229101	0.43169657	1.23302117	0.21756787	0.50540791
Oaz2	2025.60397	0.53221875	0.17987956	2.95875051	0.00308889	0.03342751
Grem1	3.34136214	0.53179744	0.31662782	1.67956635	0.09304172	NA
Ptdss1	4950.19314	0.53171926	0.16894521	3.14728822	0.00164792	0.02100549
A330009N23	75.2967744	0.53149642	0.38780992	1.37050754	0.17052852	0.44607049
Gm5741	9.13188269	0.53148371	0.41303725	1.28676943	0.19817467	0.4811611
Lat	381.805515	0.53138974	0.34501512	1.54019261	0.12351341	0.37529446
Slc16a9	809.984716	0.53138265	0.38242718	1.38950024	0.16468069	0.43784397
Akap3	6.50425992	0.53115672	0.41684167	1.27424094	0.20257804	0.487284
Entpd6	2035.16929	0.53112142	0.16649865	3.18994422	0.001423	0.01892995
Mir3535	33.534129	0.53099261	0.38164443	1.39132805	0.16412597	0.43696678
0610005C13f	22.4867878	0.53076979	0.42524471	1.24815142	0.21197561	0.49862846
Cpeb4	1491.88265	0.53074129	0.27956143	1.89847822	0.05763311	0.2392794
Pqlc1	678.046374	0.53072	0.27373121	1.93883629	0.05252128	0.22668842
Art1	55.8095258	0.5305099	0.40393998	1.31333844	0.18906893	0.47058434
Tll1	87.449048	0.53028201	0.39615791	1.33856221	0.18071323	0.4593448
Ssbp3	3038.34958	0.52996893	0.19868858	2.66733464	0.00764555	0.06417696

Vstm5	203.015969	0.5298944	0.32857003	1.61272896	0.10680341	0.34479962
Mreg	13637.6013	0.52983595	0.33197782	1.59599803	0.11048923	0.35123019
Igsf21	62.0385912	0.52957383	0.37674435	1.40565833	0.15982561	0.43106542
Fbxl15	242.088129	0.52919961	0.2652607	1.99501701	0.04604102	0.20853442
Tpk1	1936.3418	0.52912462	0.22376311	2.36466416	0.01804643	0.1154422
Epsti1	4.07114768	0.52908953	0.37327782	1.41741486	0.15636167	NA
Ptgis	1055.57134	0.52901748	0.22964945	2.303587	0.02124584	0.12895942
Ripk1	1610.31784	0.52900042	0.20362175	2.59795634	0.00937804	0.0738794
Spry2	3099.96518	0.52856132	0.25053598	2.10972222	0.03488229	0.17612158
Mcemp1	6.03230325	0.52842981	0.35967119	1.46920251	0.14177787	0.4024804
B3gat3	1949.67483	0.52810832	0.21184587	2.4928894	0.01267083	0.09038692
Fam189a1	73.624131	0.52766763	0.33742799	1.56379333	0.11786611	0.36454572
Pcsk1	483.603203	0.52765483	0.31748294	1.66199427	0.09651392	0.32451633
Vwa5b2	35.3005792	0.52730441	0.37790223	1.39534613	0.16291149	0.43462627
H13	1618.13321	0.52724267	0.17291763	3.04909726	0.0022953	0.02700504
Naip5	23.1537785	0.52716345	0.42864648	1.22983269	0.21875976	0.50706041
Pbxip1	2234.65389	0.5269522	0.20014208	2.63289066	0.00846616	0.06908658
Zswim8	1529.98838	0.52666764	0.2516854	2.09256331	0.03638815	0.18092748
Trim69	3.8207491	0.52656831	0.34954141	1.50645471	0.13195049	NA
A930007I19R	15.6571179	0.52655359	0.42967249	1.22547662	0.22039569	0.50895393
Clca2	11.5995103	0.52650264	0.41294838	1.27498416	0.20231485	0.4869577
Il7	25.4087829	0.52648998	0.43000371	1.22438473	0.22080713	0.50898556
Smarca5-ps	343.400046	0.52644456	0.33823614	1.55644091	0.11960328	0.36801556
Tnnt2	187.894965	0.52641452	0.35949175	1.4643299	0.14310383	0.40432552
Fgf1	22.2854369	0.5262719	0.43172239	1.21900534	0.22284217	0.51187866
Tie1	33.0853434	0.52626551	0.42476329	1.23896184	0.21535963	0.5026351
Sgms2	165.655947	0.52609954	0.40165785	1.30982014	0.19025669	0.47210495
Wisp2	5.50875794	0.52579983	0.39384066	1.33505725	0.18185761	NA
Usp50	131.177699	0.52573868	0.30399978	1.72940482	0.08373667	0.29969826
Igdcc3	1019.33841	0.52573424	0.27201519	1.93273855	0.05326841	0.22884208
Thsd1	214.626708	0.52560383	0.34341912	1.53050253	0.12589239	0.37885621
Bicc1	247.105013	0.52555364	0.4055288	1.29597118	0.19498541	0.47789096
Cd209d	8.13427565	0.52532024	0.38131211	1.3776647	NA	NA
D830031N03	414.807519	0.52529429	0.37237661	1.41065326	0.15834688	0.42858888
Arrdc3	5631.45252	0.52515823	0.23900216	2.19729492	0.02799939	0.15293942
Inhbb	821.592225	0.52511978	0.41991591	1.25053559	0.21110396	0.49780377
Ttyh3	888.441063	0.52497229	0.20319449	2.58359508	0.00977765	0.07617848
Wfdc2	5730.27494	0.52494243	0.26779037	1.96027371	0.04996381	0.21956082
Gfpt1	4965.91781	0.52488562	0.19773819	2.65444745	0.00794384	0.06609667
Dnajb13	556.059307	0.52445891	0.3939584	1.33125454	0.18310527	0.46315388
Klhdc7a	2062.05544	0.52410299	0.34242798	1.53054955	0.12588076	0.37885621

Avpi1	4341.99947	0.52397285	0.26198806	1.99998752	0.04550161	0.20714156
Zic1	5.5685778	0.52388441	0.4101142	1.27741103	0.20145717	NA
Spin2c	90.6673733	0.52362274	0.30046952	1.74268175	0.08138922	0.29480621
Neat1	5282.78509	0.52327838	0.29486081	1.77466234	0.07595366	0.2823029
BB283400	28.8580093	0.52305952	0.41520935	1.2597489	0.20775996	0.49332568
Pls1	620.67848	0.5229391	0.25612686	2.04171908	0.0411794	0.19458551
3110021A11f	9.89836692	0.52237056	0.42666026	1.22432438	0.22082988	0.50898556
Zmiz1	3863.29056	0.52217039	0.429487	1.21580023	0.22406103	0.51323805
Ly9	5.00457802	0.52209168	0.39765883	1.31291356	0.18921208	NA
Slc5a4b	68.8354348	0.52193361	0.38590019	1.35250934	0.17621243	0.45380054
Hspa5	49846.0693	0.52193051	0.2295587	2.27362551	0.02298851	0.13522575
Tcta	369.428505	0.52181336	0.22931331	2.27554767	0.0228731	0.13501598
A330041J22R	16.1508576	0.52169792	0.42365771	1.23141373	0.21816817	0.50622697
Cuzd1	5.71990768	0.52166737	0.40841282	1.27730408	0.20149491	NA
Fam19a5	178.728437	0.52097358	0.41708518	1.24908198	0.21163509	0.49812885
Myo1f	1852.89514	0.52095333	0.39263274	1.32682091	0.18456793	0.46455672
E130309D14f	330.898142	0.52045295	0.33164852	1.56929076	0.1165802	0.36251525
1190007I07R	1001.41672	0.52037607	0.23839195	2.18285929	0.02904617	0.15629656
Tceal5	41.0255356	0.52037023	0.40343457	1.28985037	0.19710262	0.48021826
Eng	4340.85996	0.52016617	0.21549189	2.413855	0.01578474	0.10521583
Abca13	65.5862737	0.52010112	0.40424493	1.28659901	0.19823409	0.48122491
Prkag2	1622.81781	0.52005648	0.20163489	2.57919881	0.00990298	0.07692368
Ptpn14	2860.27257	0.51995661	0.35991501	1.44466497	0.14855202	0.41357758
Psd	68.8393626	0.51978248	0.34068537	1.52569651	0.12708546	0.38086453
Gdpd5	111.087974	0.51952378	0.3368899	1.54211741	0.12304507	0.37447602
Fxn	547.939141	0.51949604	0.28348834	1.83251288	0.06687504	0.26268598
Reg2	33.5373726	0.51947365	0.42294074	1.22824218	0.21935607	0.50777109
Wdtdc1	11922.4468	0.51934562	0.16921341	3.0691752	0.00214651	0.02567717
Lmx1a	25.5878261	0.51932151	0.42952579	1.2090578	0.22664064	0.51686297
Hoxd10	24.7665902	0.51930046	0.42839151	1.21220998	0.22543201	0.51493731
Trex1	394.785343	0.51915627	0.24305804	2.13593544	0.03268468	0.16880751
Actn3	1404.50388	0.51878518	0.35260318	1.47130036	0.14120991	0.40171844
Celsr2	629.206461	0.51869897	0.27297311	1.90018336	0.05740906	0.23881336
Fam26f	92.4755053	0.51869372	0.35804669	1.4486762	0.14742803	0.41204462
Pla2g10	647.921458	0.51865919	0.31946275	1.62353574	0.10447493	0.3398475
Itm2c	2770.31558	0.51857651	0.20803577	2.49272763	0.0126766	0.09038692
Hs6st2	25.9778278	0.51847006	0.42205542	1.22844071	0.21928157	0.50770735
Idnk	678.118572	0.51841802	0.26094795	1.98667212	0.04695874	0.21087364
6030443J06R	89.1113005	0.51820345	0.41472008	1.24952582	0.21147281	0.49812885
Krt10	164.615225	0.51780018	0.25437007	2.03561754	0.04178878	0.19615371
Dhrs3	375.642756	0.51775566	0.38806655	1.33419296	0.18214062	0.46138929

1700128A07F	4.93052034	0.5175988	0.3938853	1.31408509	0.18881757	NA
Ldhal6b	468.269582	0.5173269	0.29233538	1.76963495	0.07678797	0.28448265
Amz1	69.3845752	0.51721529	0.32729624	1.58026652	0.11404584	0.35801802
Atp6v0b	6128.50923	0.51707994	0.20210609	2.55845794	0.01051375	0.07998991
Pdpn	1446.90122	0.51692987	0.33735479	1.53230334	0.1254476	0.37863766
Ppil6	47.5958154	0.51667864	0.39652198	1.30302649	0.19256572	0.47533167
Wrap53	2524.66836	0.5164431	0.17107498	3.01881142	0.00253768	0.02886871
Adra1d	12.9037465	0.51634336	0.41653446	1.23961739	0.21511695	0.50244572
Adora2a	32.9073153	0.51607302	0.43147825	1.19605802	0.23167392	0.52302118
Zbtb2	1237.78826	0.51589623	0.21592397	2.38924944	0.01688284	0.10998951
Rtn4rl1	461.050732	0.51584739	0.34572674	1.49206682	0.13568163	0.39328705
Gsto2	12.8011113	0.51534802	0.43225836	1.1922222	0.23317413	0.5247835
Camk1	809.591191	0.51514451	0.28267508	1.82239098	0.06839568	0.26583885
1700120C14F	25.0918326	0.51430855	0.43183336	1.19098845	0.23365812	0.52524103
Uckl1os	4.47170509	0.5142761	0.37347284	1.37701069	0.16850894	NA
Smim4	289.146586	0.51391434	0.25032732	2.05296944	0.04007554	0.19134625
3110056K07F	219.694182	0.51372511	0.28053214	1.83125225	0.0670629	0.26304109
Cited4	195.786725	0.51350659	0.37562787	1.36706202	0.17160587	0.4479452
Rhbdd2	1403.24185	0.5134092	0.18607109	2.75920999	0.00579413	0.05256972
Krt20	7.35313185	0.51335212	0.39568571	1.29737341	0.19450274	0.47730978
Gm4598	14.727572	0.51320191	0.42861072	1.19736137	0.23116573	0.52281662
Ube2r2	6182.39133	0.51313009	0.21159173	2.42509528	0.01530437	0.10285145
Adcy4	14.8362425	0.51303121	0.43165199	1.1885297	0.23462478	0.5263048
Mzf1	85.7049646	0.51297393	0.31969688	1.60456348	0.1085899	0.34811431
Gm10516	14.2491818	0.5129092	0.42808445	1.19814958	0.23085879	0.52255843
Lhx8	9.35789439	0.51274055	0.42854914	1.19645684	0.23151833	0.52302118
Ltbr	252.296912	0.51271992	0.27262404	1.88068493	0.06001479	0.24638068
Tmem86b	68.6470557	0.51250781	0.32713334	1.56666333	0.11719341	0.36362993
Ftx	274.739035	0.51239394	0.32739761	1.56505095	0.11757096	0.36406732
Hmox1	5309.78066	0.51225866	0.19055783	2.68820575	0.00718371	0.06118588
Micu2	924.302952	0.51223045	0.26197221	1.95528544	0.05054939	0.22106118
1700011E24F	4.53235407	0.51211504	0.39565781	1.29433823	0.19554862	NA
Dlg4	75.5616416	0.51201626	0.39311373	1.30246343	0.19275801	0.47556451
Phf11a	7.14324769	0.51184393	0.41523156	1.23267104	0.21769852	0.50558986
Kif19a	99.2474752	0.51181228	0.4133899	1.23808606	0.21568415	0.5027617
Rasl10a	321.02968	0.51173078	0.33966584	1.50657122	0.1319206	0.38843399
Ephb2	1070.20357	0.51156756	0.38672628	1.3228156	0.18589671	0.46656448
Syt6	4.85790362	0.51140645	0.39229492	1.30362749	0.19236062	NA
AI507597	3.52721831	0.51124116	0.34188642	1.49535382	0.13482213	NA
Wdpcp	191.840088	0.51121354	0.29536378	1.73079293	0.0834887	0.29916365
lft27	773.768547	0.5111608	0.19906501	2.56780835	0.01023437	0.07875048

Myd88	806.933679	0.51094269	0.28408043	1.79858465	0.07208441	0.27374472
Ptafr	8.03811148	0.5109413	0.42723804	1.19591716	0.23172889	0.52302118
Mir7650	40.4817126	0.5108483	0.42671793	1.19715688	0.23124541	0.52284057
Acot8	1298.73836	0.51065686	0.23143991	2.20643391	0.02735363	0.1505757
Chrna9	76.0648508	0.51059896	0.32506695	1.57075015	0.1162407	0.36215582
Gm9573	2.95498205	0.51052545	0.35312361	1.44574149	0.14824972	NA
Trpm3	24.4517329	0.51007422	0.42983169	1.1866836	0.23535245	0.52722067
Ankrd2	2.62038033	0.5099636	0.31264801	1.63111094	0.10286691	NA
Cystm1	963.746937	0.50974637	0.26384879	1.93196402	0.05336395	0.22892063
Wdr52	16.0477378	0.50973833	0.42601111	1.19653765	0.23148682	0.52302118
Nlr1	614.881224	0.50963939	0.39021823	1.30603685	0.19154002	0.47409787
Dnajc1	1249.13503	0.50955007	0.20407563	2.49686882	0.01252953	0.08979111
Kcnj10	96.9807942	0.50954297	0.28846795	1.76637633	0.07733273	0.28561324
Col2a1	194.206748	0.50898842	0.31497203	1.61597974	0.10609869	0.34316572
Ift22	605.987339	0.50895227	0.23650939	2.15193264	0.03140266	0.16442517
Xlr5a	634.410109	0.50873036	0.40233306	1.26445082	0.20606826	0.49097098
Gsc	439.425958	0.50847781	0.32585696	1.56043256	0.11865769	0.36626554
Mapk12	317.753528	0.50825398	0.33494453	1.51742732	0.12915883	0.3841907
Dcc	15.8463804	0.50804856	0.39847642	1.27497772	0.20231713	0.4869577
Col28a1	3.29050153	0.5078127	0.36888269	1.3766238	0.16862859	NA
Sema5a	912.505413	0.5076912	0.40081519	1.26664659	0.20528169	0.4903111
Ptpn12	3621.06582	0.50764969	0.20555636	2.46963753	0.013525	0.09474203
Sh3tc2	521.422911	0.50730622	0.38536112	1.31644372	0.18802516	0.46937977
Atn1	3007.01598	0.50716693	0.24682	2.05480484	0.03989786	0.19102574
2610018G03I	450.184601	0.50704074	0.32368875	1.56644533	0.1172444	0.36363535
Mir143hg	4.82473724	0.50689636	0.39667831	1.27785249	0.20130144	NA
Rtp3	22.0659288	0.50658086	0.41940074	1.20786831	0.22709792	0.51714743
Tysnd1	1762.82686	0.50656516	0.24495018	2.06803338	0.03863688	0.18764984
Lmo2	100.997864	0.50638052	0.43115891	1.17446378	0.24020931	0.53234929
A730017C20I	16.696332	0.50631629	0.42929829	1.17940441	0.23823718	0.53019122
Pyroxd2	30.0145476	0.50621581	0.42953196	1.17852885	0.23858584	0.53071461
Sfn	1418.86169	0.50610278	0.36871829	1.37260014	0.16987669	0.44511837
Afmid	681.481445	0.50589473	0.21698509	2.33147229	0.01972847	0.12261467
5830454E08F	19.4951116	0.50570438	0.42329269	1.19469199	0.23220739	0.52387309
Ltbp2	79.0204699	0.50567025	0.32303083	1.56539318	0.11749075	0.36401527
Prokr2	2.99676888	0.50566447	0.35368292	1.42971133	0.15279989	NA
Tnnc2	20.216856	0.50562164	0.43156204	1.17160824	0.24135438	0.53389786
Col1a2	88.787085	0.50546781	0.3227133	1.5663061	NA	NA
Zkscan7	190.140436	0.50542765	0.32313132	1.56415559	0.11778103	0.36435506
Fam229a	6.60504856	0.50537244	0.40113694	1.25985016	0.20772342	0.49332568
Gpc6	326.651667	0.50536583	0.30451417	1.65958067	0.09699884	0.32551337

Plscr2	27.7691082	0.50528452	0.41813862	1.2084139	0.2268881	0.51708161
Mafb	10.0362736	0.50516963	0.42897363	1.17762396	0.23894655	0.53094189
Crygb	4.95822555	0.50474849	0.40633246	1.24220566	0.21416069	NA
Nkx2-5	24.3825055	0.50463348	0.43100553	1.17082834	0.24166779	0.53421167
Arih2	16506.4542	0.50457724	0.17877446	2.82242351	0.00476622	0.04544419
Usp44	815.01675	0.50455729	0.26356721	1.91434017	0.0555767	0.23466558
Tbx4	81.7160406	0.50454744	0.39101966	1.2903378	0.1969334	0.48016797
Oxt	4.90502416	0.50441563	0.35423315	1.42396509	0.15445658	NA
Gpr135	98.6501924	0.50425547	0.37919479	1.32980591	0.18358223	0.46376482
Gm2694	311.058791	0.50405172	0.35839459	1.40641556	0.15960076	0.43063997
Hoxa4	20.2031287	0.50399358	0.42445807	1.1873813	0.23507725	0.52698453
Cyp4f14	38.7905629	0.50386291	0.38035506	1.32471725	0.18526495	0.46588862
Nrn1l	42.5655915	0.50384388	0.38044233	1.32436335	0.1853824	0.46595793
Tmem123	5625.40633	0.5034199	0.19910079	2.5284677	0.01145616	0.08472551
Klhl40	8.5730565	0.50327619	0.39338196	1.27935758	0.20077116	0.48451154
Mfhas1	203.188049	0.50316022	0.3701241	1.3594365	0.17400831	0.45122615
2010109A12f	2.34757454	0.50315766	0.31152919	1.61512206	0.10628426	NA
Gas2l1	2190.92662	0.50311468	0.26671185	1.88636048	0.05924639	0.24413488
Sox21	823.561278	0.50277585	0.23206493	2.16653095	0.03027064	0.16033334
Rgs19	1495.78466	0.502591	0.16537993	3.03900837	0.00237358	0.02762843
Bnc1	5.58393523	0.50249023	0.38418899	1.30792457	0.19089889	NA
Tagln2	10908.5546	0.50248226	0.20096816	2.50030777	0.01240855	0.08917065
Fbxo9	1125.22622	0.50240878	0.1915231	2.62322816	0.00871009	0.07036397
Tnfrsf10b	3693.1402	0.50228752	0.21816456	2.30233322	0.02131639	0.12914425
Gm5577	88.2588397	0.50215464	0.37163884	1.35118988	0.17663461	0.45416588
4933425L06F	2.33502471	0.50206409	0.31129619	1.61281796	0.10678406	NA
Slc4a8	2799.0838	0.50193644	0.2842816	1.76563111	0.07745776	0.28570816
Kctd15	918.507784	0.50193092	0.29334502	1.71105998	0.08707004	0.30689624
Sepn1	278.573595	0.50167239	0.35255186	1.42297473	0.15474348	0.42329215
Fam57a	252.643271	0.50164833	0.29703807	1.68883516	0.09125102	0.31450458
Rhbdl1	71.989559	0.50124905	0.33243947	1.50779045	0.13160817	0.38798836
Pkhd1l1	18.4399862	0.50109498	0.34585674	1.44885127	NA	NA
Phf7	288.9144	0.50103635	0.23133952	2.16580527	0.03032607	0.16046299
Pglyrp2	2.32071323	0.5009188	0.31105307	1.61039659	0.1073113	NA
App	1112.71784	0.50061278	0.37082853	1.34998453	0.17702095	0.45462566
C130026l21R	4.09077958	0.50048701	0.34884033	1.4347166	0.15136787	NA
Al464131	2867.82658	0.50022304	0.20128697	2.48512381	0.01295064	0.0917101
2700054A10f	207.57064	0.50017674	0.39116171	1.27869555	0.20100429	0.48477321
Dzip1	2497.53688	0.50008043	0.21169331	2.3622874	0.01816256	0.11599421
Mlxipl	1397.98072	0.49989497	0.32207525	1.55210614	0.12063683	0.36940975
Gadd45b	1772.17685	0.49969468	0.3352691	1.49042867	0.13611156	0.39394581

Zfp592	3014.16229	0.49969177	0.18734224	2.66726695	0.00764709	0.06417696
Soga3	41.4454308	0.49938145	0.42304459	1.18044637	0.23782273	0.52993576
1810024B03F	8.79898498	0.49935788	0.42978205	1.1618863	0.24528165	0.53806954
9530082P21F	68.8565692	0.49925192	0.40237683	1.24075713	0.21469548	0.50176277
Cnm2	2215.13566	0.49902794	0.23371031	2.13524144	0.03274129	0.16898306
Invs	229.431626	0.49860252	0.31148274	1.60073883	0.10943478	0.34954524
4930579K19F	14.6313307	0.4985937	0.43217472	1.15368547	0.24862914	0.54187974
Tex264	3490.59621	0.49847816	0.22395578	2.22578833	0.02602836	0.14607256
Gjb3	13471.8345	0.49827597	0.20639806	2.4141504	0.01577195	0.10517564
Gm525	30.1385961	0.49796443	0.41799945	1.19130402	0.23353426	0.52506228
Csf1	32.915242	0.49782511	0.40938206	1.21604034	0.22396955	0.51323805
Nat14	36.8756056	0.49758935	0.41095397	1.21081528	0.22596621	0.51577873
1700003E16F	17.8005095	0.49746854	0.41852506	1.18862308	0.23458802	0.5263048
D130043K22I	9.25346687	0.49729408	0.43074507	1.15449744	0.24829629	0.54162653
Pafah2	1254.63871	0.49700023	0.28518028	1.74275804	0.08137589	0.29480621
Olig3	16.8967817	0.49695605	0.4316095	1.15140201	0.24956689	0.54310658
A430035B10I	8.29811825	0.49692052	0.41834094	1.18783622	0.23489794	0.52680961
Dlx5	3.66990867	0.49686329	0.34099326	1.45710588	0.14508715	NA
Commd9	1067.41338	0.49683448	0.23773304	2.08988402	0.03662822	0.18157649
Sash3	465.456527	0.49667865	0.3109631	1.59722699	0.11021512	0.3509327
Fam53c	3245.25092	0.49666877	0.22396847	2.21758343	0.02658325	0.14758876
Mapkapk2	1823.49139	0.49611656	0.16857839	2.94294277	0.00325109	0.03461858
Bcorl1	1501.69915	0.49602148	0.23968567	2.06946661	0.03850232	0.18734343
C3	5.50527464	0.49600066	0.32722259	1.51578978	0.12957252	NA
Dync2h1	1397.91679	0.49573593	0.22226357	2.23039668	0.02572112	0.14502869
Spry4	76.9457048	0.49566403	0.41665333	1.18963176	NA	NA
Atp6v1h	11103.9321	0.49564604	0.27209722	1.82157699	0.06851919	0.26618586
Slc16a13	395.406074	0.4955781	0.2814546	1.76077458	0.07827656	0.28824979
Ocln	1322.88051	0.49553243	0.25455705	1.94664587	0.05157721	0.22364716
4930579G24I	1619.63102	0.49547207	0.26093506	1.89883285	0.05758646	0.2392794
Snph	7.51193435	0.49534956	0.42623023	1.1621643	0.24516873	0.53789771
Mrpl57	2106.09748	0.4953483	0.21661117	2.28680868	0.02220699	0.13211207
Prrx1	8.85667616	0.49510125	0.30674856	1.6140296	NA	NA
Fam69a	1048.0934	0.49508646	0.18436725	2.6853276	0.00724587	0.06150688
Ubc	3748.11743	0.49498561	0.35880051	1.37955659	0.16772321	0.44260371
F2r	2650.47526	0.49463628	0.29431586	1.68063075	0.09283466	0.3171511
Hist3h2a	96.7835097	0.49463367	0.36027975	1.37291555	0.1697786	0.44511837
9330151L19F	259.674997	0.49462926	0.39447901	1.25387979	0.2098857	0.49634011
Rtn4rl2	12.8222298	0.49462835	0.43163457	1.14594238	0.25181899	0.54548505
Tspyl3	400.692011	0.49445049	0.25783157	1.91772671	0.05514567	0.23325384
Tulp4	1167.50239	0.4943711	0.32600276	1.51646292	0.12940234	0.38455938

Gm6787	11.6906686	0.49417381	0.43168625	1.14475226	0.2523118	0.54598821
Dbn1	17.5091687	0.4941141	0.42990992	1.14934334	0.25041443	0.54405045
Gramd1c	82.2307871	0.49406438	0.39959544	1.23641146	0.21630566	0.50358934
Fam159a	116.072867	0.49400233	0.40327867	1.22496519	0.22058834	0.50895393
Foxd2	13.2881684	0.4937443	0.42798954	1.15363638	0.24864928	0.54187974
Ift122	1075.7772	0.49358296	0.18679928	2.64231724	0.00823409	0.0679215
Grik4	279.53511	0.49286893	0.3297881	1.49450187	0.13504449	0.39257426
Itga7	160.850318	0.49266256	0.32215429	1.52927522	0.12619623	0.37922272
Rpl10l	13017.5546	0.49263646	0.26958216	1.82740752	0.06763852	0.26401773
Hs3st4	17.101822	0.49224067	0.42778739	1.15066663	0.24986941	0.54338123
Noxo1	147.982473	0.49213666	0.29796822	1.65164143	0.09860767	0.32850211
Dab1	348.785117	0.49198439	0.26602427	1.84939664	0.06440056	0.25685896
Btbd6	752.010486	0.49150239	0.24693822	1.99038603	0.04654843	0.20987956
Tmem9b	624.034573	0.49140894	0.26300861	1.86841388	0.0617044	0.25017768
2410021H03I	174.518721	0.49131776	0.34882696	1.40848562	0.15898732	0.42961109
4933407K13F	212.195936	0.49127483	0.32974008	1.48988511	0.13625445	0.39419575
Vil1	176.748474	0.49111496	0.30817	1.59364946	0.11101457	0.35232399
Dnah6	50.2734452	0.49105103	0.42981987	1.14245771	0.25326381	0.54616042
Ung	8439.04877	0.49101123	0.16990707	2.88988102	0.00385388	0.03889544
Trim66	314.194355	0.49087154	0.36122869	1.35889412	0.17418014	0.45151891
8430429K09F	116.447483	0.49082756	0.29099942	1.68669601	0.09166182	0.31531296
Amph	2030.5349	0.49051938	0.27171083	1.80529932	0.07102786	0.27118934
1700021F07F	8.18941861	0.49051484	0.40695543	1.20532816	0.22807664	0.51866656
Pkig	1073.22844	0.49050997	0.21562136	2.27486729	0.02291389	0.13502612
Cox14	2158.51446	0.49033343	0.23017717	2.13024358	0.03315151	0.17003269
Flywch2	130.059139	0.49014133	0.32843986	1.49233203	0.13561213	0.39328705
Nfia	65.2876312	0.49011711	0.36476882	1.34363764	0.17906559	0.45711817
Ehd4	4174.58341	0.48975908	0.22631433	2.16406566	0.03045931	0.16089427
Bmp8b	64.5164369	0.48968213	0.39197491	1.24926909	0.21156667	0.49812885
Xlr4b	654.095014	0.48965598	0.31171013	1.57086962	0.11621294	0.36215582
Gm7325	1703.06215	0.48962864	0.25641338	1.90952843	0.05619396	0.23611787
Neu3	887.911419	0.48956981	0.28715475	1.70489887	0.08821329	0.30918323
Nkain4	314.977054	0.48933343	0.3858206	1.26829264	0.20469346	0.49009824
Adora2b	211.918961	0.489282	0.38061765	1.28549476	0.19861945	0.48170581
Pdk3	3353.97906	0.489192	0.21377012	2.2884021	0.02211412	0.13185527
Plekhf1	1756.72914	0.48913176	0.2285288	2.14035068	0.03232644	0.16751364
Rhox3h	2.30276931	0.4891045	0.30832035	1.58635163	0.11265957	NA
Zfp282	1016.2841	0.48883629	0.18805506	2.59943175	0.00933782	0.07382763
Vash1	1313.26452	0.4884937	0.38673093	1.26313586	0.20654036	0.49134299
E130218I03R	4.50475053	0.4880448	0.39809506	1.2259504	0.22021734	NA
E130317F20F	99.335625	0.48785253	0.29875222	1.63296706	0.10247592	0.3363451

Sebox	4.34816447	0.48759601	0.3781882	1.28929462	0.19729568	NA
Mid2	45.0725285	0.48744545	0.42409522	1.14937737	0.25040041	0.54405045
Ptx3	13.0175401	0.48743958	0.35024939	1.39169286	NA	NA
Tead3	323.848718	0.48741411	0.25111709	1.9409834	0.05226029	0.22593822
Fbll1	2.60189605	0.48713989	0.32688836	1.49023321	0.13616293	NA
Alx3	5.97654151	0.48673037	0.38917621	1.25066834	0.2110555	0.49780377
Slc25a18	9.56182728	0.48662597	0.42739385	1.13858906	0.2548746	0.54795202
Rhobtb2	1425.83696	0.48651534	0.2170209	2.24179029	0.02497493	0.14236991
Cers5	5729.1822	0.48642341	0.15815441	3.07562338	0.00210063	0.0252254
Rbfox1	10.6704275	0.48641561	0.43094969	1.12870626	0.25902177	0.55124631
4930509E16F	69.415507	0.48634677	0.40415512	1.20336658	0.22883449	0.51962142
Sh3bgrl3	4099.04777	0.4863035	0.22556545	2.15593078	0.03108907	0.16322287
Slc9a1	3696.31858	0.4857492	0.18669016	2.6019004	0.00927088	0.07348186
Pcsk2os1	6.7762851	0.48462025	0.41940206	1.15550278	0.24788459	0.54110799
Wdr63	6.24162828	0.48456967	0.41220944	1.1755424	0.23977778	0.53177186
Rbfox3	28.7819886	0.4842635	0.41517141	1.16641823	0.24344539	0.53577799
Mettl13	1196.29563	0.48405783	0.19637045	2.46502382	0.01370041	0.09547055
Gm5142	3.90123117	0.48403248	0.36724132	1.31802295	0.18749596	NA
Col3a1	110.896568	0.48375398	0.3150672	1.53539938	NA	NA
1700020N15I	16.0273569	0.48373652	0.42985118	1.12535811	0.26043731	0.5523497
B930003M22	61.0201341	0.48372012	0.40392508	1.19754911	0.2310926	0.5227991
Klhl5	509.804402	0.48352747	0.28728145	1.68311418	0.09235299	0.31658914
Ppapdc1b	984.486943	0.483355	0.2086078	2.31705143	0.02050093	0.12577215
Naip6	3.28911726	0.48331925	0.36101516	1.33877827	0.18064287	NA
Ano7	52.5334272	0.48311426	0.38991981	1.23900927	0.21534207	0.5026351
Dhrs4	791.382176	0.48292506	0.27150754	1.77868012	0.07529222	0.28064941
Pcdhga9	13.7208913	0.48279207	0.43222797	1.11698479	0.26400083	0.55577053
Fam111a	4709.06558	0.48268987	0.16346776	2.95281394	0.00314892	0.03389114
Ksr1	1066.87328	0.48246131	0.22155152	2.17764842	0.02943222	0.15726601
Hs2st1	4105.63956	0.48226836	0.21106559	2.28492183	0.02231741	0.13256611
Ctsa	13535.3131	0.48212929	0.22148804	2.17677349	0.02949747	0.1574177
5430421F17F	5.60010427	0.48210667	0.38617131	1.24842695	0.21187475	NA
Tmem131	10926.4442	0.48191075	0.23395541	2.05984018	0.03941382	0.18964243
Gns	3509.141	0.48154463	0.16701215	2.8832909	0.00393544	0.03948593
Myl9	25.0723631	0.48152683	0.42306915	1.13817524	0.25504732	0.54797381
9330182O14I	2.64368287	0.48149292	0.32751498	1.47014015	0.1415238	NA
Lamc2	3282.7244	0.48126149	0.25019565	1.92354064	0.05441219	0.23112918
Stx2	489.178009	0.48125818	0.22664692	2.12338289	0.03372178	0.17199324
Arl6ip5	2364.52382	0.48117114	0.2643149	1.82044653	0.06869103	0.26648321
Klhdc1	133.29124	0.48097473	0.3947119	1.21854632	0.22301643	0.51207347
Trim50	159.945161	0.4806143	0.42470461	1.13164371	0.25778426	0.55025528

Abcg3	36.4133117	0.48054685	0.40653005	1.18206969	0.23717805	0.52931278
1810020005l	35.1821666	0.48016968	0.43189452	1.11177537	0.26623475	0.55850756
Per2	24.1849681	0.47950302	0.42810733	1.12005329	0.26269105	0.55510278
AA388235	69.2644284	0.47936914	0.34586812	1.38598823	0.1657505	0.43941118
H3f3b	40259.0485	0.47871874	0.17301975	2.76684443	0.00566018	0.05162545
Fam216a	1984.96554	0.4785707	0.21782001	2.19709245	0.02801384	0.15296464
Dazl	20804.0286	0.47843075	0.43191091	1.10770703	0.26798836	0.56067606
Ankrd23	210.948337	0.47840143	0.27188904	1.75954658	0.07848472	0.2887428
Insl3	25.1569426	0.47819667	0.42286172	1.13085828	0.25811475	0.55068493
Hsd11b2	24.3498499	0.47817327	0.41202394	1.1605473	0.24582605	0.53902516
Smoc1	3951.70057	0.4779135	0.16977398	2.81499853	0.00487775	0.04605575
Panx1	1019.82388	0.47782711	0.1873678	2.5502093	0.01076583	0.08119271
Gm7173	8.8113006	0.47779923	0.40786647	1.17145995	0.24141395	0.53395367
Med22	2385.91405	0.47757063	0.20299371	2.35263762	0.01864079	0.11774287
Mrpl17	8145.25698	0.47730177	0.19612504	2.43366057	0.014947	0.10123731
C630028M04	2.55289237	0.47721758	0.30513472	1.56395696	0.11782768	NA
Car7	60.6711448	0.47714428	0.3669025	1.30046614	0.19344125	0.47612768
Mir377	5.4891128	0.47712814	0.40522065	1.17745268	0.23901487	NA
Nbea	346.681228	0.47668631	0.29463749	1.6178739	0.10568978	0.34245662
Ccdc11	31.9360038	0.47642034	0.3877592	1.22865	0.21920306	0.50770735
Clec18a	12.8081582	0.47636609	0.43149567	1.10398811	0.26959829	0.56260264
Fut11	700.361619	0.47635184	0.21035462	2.26451806	0.02354227	0.13727253
Atg2a	4422.75398	0.47615889	0.25134841	1.89441776	0.05816958	0.24103255
Pkd1l3	18.3765574	0.47611254	0.43169483	1.10289146	0.2700743	0.56314367
Sod2	20564.9641	0.47574187	0.16956417	2.80567453	0.00502114	0.04712355
Rsad1	362.806747	0.47566641	0.2039025	2.33281306	0.01965796	0.12228037
Hs3st1	77.2351467	0.47566289	0.41655023	1.14191002	0.25349142	0.54626394
Gm10638	5.55058003	0.47539597	0.41253195	1.15238583	0.24916256	NA
Ildr2	14.1695832	0.47537805	0.42773869	1.11137491	0.26640701	0.55868408
Elf3	8613.29315	0.47533203	0.25645726	1.85345517	0.06381715	0.25555771
Zfp560	228.711172	0.47516191	0.3577878	1.32805509	0.18415991	0.4644599
Cdkl3	297.555174	0.47506268	0.27499671	1.72752135	0.08407407	0.30042186
Tmem74	13.4526572	0.47504291	0.43218515	1.09916528	0.27169598	0.56523668
Dok1	909.847388	0.47500205	0.23753151	1.99974327	0.04552799	0.207201
Tcf19	1045.69104	0.47488991	0.21334558	2.22591866	0.02601963	0.14607256
Gast	2.72752185	0.47461411	0.32704243	1.451231	0.14671555	NA
Fst	444.706861	0.47448889	0.27108559	1.75032874	0.0800616	0.29191981
Cisd2	1389.40071	0.47447411	0.22321027	2.12568224	0.03352973	0.17140723
Peril	120.938717	0.4743903	0.35922369	1.32059857	0.18663525	0.46774613
Papss2	64.0336841	0.47436305	0.40557206	1.16961471	0.24215605	0.53454646
2810429I04R	94.7757054	0.47435585	0.4322646	1.09737382	0.27247801	0.56572838

A3galt2	2.30992505	0.47428181	0.30476337	1.5562297	0.11965348	NA
4933411K16F	5.30903537	0.47427074	0.40433868	1.17295417	0.24081418	NA
Gde1	3480.28132	0.47425752	0.21346077	2.22175493	0.02629987	0.14666206
1110008F13F	6419.88539	0.47413197	0.18656881	2.54132498	0.01104332	0.08256476
Pdgfb	388.905315	0.47406649	0.3149359	1.50527927	0.13225229	0.38856271
Rap1gds1	3130.10511	0.47402575	0.36478276	1.29947411	0.19378127	0.47646674
Myo1g	223.7668	0.47391025	0.24264219	1.95312381	0.05080493	0.22164643
Dram1	26.1378145	0.4737391	0.4254769	1.11343084	0.26552344	0.55746658
Gm6623	17.035767	0.47331195	0.420293	1.1261476	0.26010305	0.55222808
Msrb3	124.018662	0.47300665	0.33463649	1.41349397	0.15751053	0.42732839
D130040H23	568.095575	0.4729851	0.33537382	1.41032208	0.1584446	0.42874056
Lonrf3	913.410153	0.47258307	0.39273276	1.20331972	0.22885262	0.51962142
A730098P11f	25.5101235	0.47240453	0.40253957	1.17356047	0.24057112	0.53277151
1700019B21f	75.7663196	0.47234965	0.42960231	1.09950444	0.2715481	0.56508022
Adam15	2176.58588	0.47232028	0.1789511	2.63938178	0.00830574	0.0682911
Sdpr	4.25353309	0.47213971	0.31559692	1.49602126	NA	NA
1700108F19F	47.4783616	0.47210556	0.36788822	1.28328533	0.19939213	0.48250548
C030039L03F	3692.62968	0.47186616	0.18536131	2.54565612	0.01090726	0.08170461
Zfp202	78.0840876	0.47150384	0.32511321	1.45027588	0.1469816	0.41146911
lqub	66.4970827	0.47110104	0.39978085	1.1783982	0.2386379	0.53071461
9330179D12l	43.6597293	0.47105464	0.42535379	1.10744196	0.26810289	0.56076235
Shpk	228.850065	0.47090999	0.29217523	1.61173822	0.10701892	0.34516082
Dchs1	9.36806786	0.47089155	0.42746118	1.10160074	0.27063529	0.56385977
Gm1123	4.35087915	0.47088718	0.39237198	1.20010398	0.23009896	NA
Arhgdig	336.635908	0.47080586	0.31158997	1.51097889	0.13079383	0.38666893
Ptk2b	930.343576	0.47070114	0.30164246	1.56046047	0.11865111	0.36626554
Prepl	4057.72565	0.47053974	0.1631998	2.88321269	0.00393642	0.03948593
Myo19	4809.63517	0.47052901	0.21035322	2.23685199	0.02529601	0.14352754
Mt1	12604.6579	0.47052754	0.26152536	1.79916601	0.07199242	0.27366272
Fam102a	4393.91047	0.47043219	0.20828282	2.25862216	0.0239069	0.13851571
Cetn4	67.5114438	0.47025571	0.3847427	1.22226026	0.22160922	0.50979956
Loxl3	162.257194	0.47020838	0.33524239	1.40259223	0.16073847	0.43208565
Obsl1	807.195243	0.47003855	0.3198647	1.46949179	0.14169945	0.40234221
Pcdhgb1	7.97904862	0.46986295	0.41498787	1.13223297	0.2575365	0.55010645
Ppp1r3d	13.7968049	0.46984914	0.41752878	1.12530958	0.26045787	0.5523497
Akr1a1	21258.0227	0.46976133	0.18439971	2.5475166	0.01084927	0.08140944
Wnt11	122.131909	0.46974491	0.27583455	1.7029952	0.08856897	0.30979218
Gm5176	14.8146019	0.4695961	0.42669687	1.10053795	0.2710978	0.56467211
Fbxl12os	19.5969388	0.46958513	0.41471618	1.13230482	0.2575063	0.55010645
Stab2	143.61971	0.46955237	0.41245804	1.13842457	0.25494324	0.54796018
She	1003.58974	0.46939701	0.2822049	1.66331986	0.09624843	0.32400358

Casp6	1028.85363	0.46926222	0.29295376	1.60183033	0.10919313	0.34910823
Ly6h	7.41606007	0.46917453	0.42589524	1.10161957	0.2706271	0.56385977
Dlgap4	3126.75742	0.46909484	0.18401555	2.54921297	0.01079663	0.0813139
Nt5c2	3073.20069	0.46873065	0.24690369	1.89843519	0.05763878	0.2392794
Gpr137	756.346227	0.46870729	0.21098674	2.22150114	0.02631704	0.14666206
Tspan9	2099.49514	0.46853776	0.33118076	1.41474931	0.15714201	0.42655183
Crim1	388.2686	0.468488	0.40474785	1.15748115	0.24707584	0.54002478
Egr2	5.07467093	0.4680906	0.33462168	1.39886515	NA	NA
Cdhr5	4.53046422	0.46799842	0.39483125	1.18531251	0.23589391	NA
Map3k9	1902.28584	0.46795065	0.21444511	2.1821465	0.02909872	0.1563629
Als2	4369.78318	0.46774343	0.23595794	1.98231698	0.04744377	0.21243828
Map3k19	6.10294706	0.46766996	0.4167343	1.12222575	0.26176647	0.55406701
Kcng4	35.2581219	0.46750468	0.42763361	1.0932365	0.27428997	0.56699234
Rdh12	110.322007	0.46732095	0.30942563	1.5102852	0.13097067	0.38706287
Ttc17	1526.49755	0.46732027	0.18716142	2.49688354	0.01252901	0.08979111
Dolk	713.863179	0.46718098	0.20679427	2.25915819	0.02387355	0.13838335
4930470P17F	3.1154408	0.4671549	0.35813617	1.3044058	0.19209526	NA
LOC10105615	4.54865727	0.46701082	0.3491595	1.33752859	0.18105016	NA
Dpp7	3264.73076	0.46660617	0.2085355	2.23753833	0.02525118	0.14341894
Rgs6	10.0576008	0.46624492	0.42125116	1.1068098	0.26837617	0.56110753
Runx2	8.749211	0.46619349	0.3910378	1.19219544	0.23318462	0.5247835
Bcl2l15	65.1112688	0.4657852	0.41491253	1.12261058	0.26160292	0.55387161
Ccdc63	382.647384	0.46557713	0.28654093	1.62481895	0.10420114	0.33956461
Gm7904	5.92190045	0.46549235	0.40911395	1.1378061	0.25520146	NA
Elovl4	402.132129	0.46538334	0.25311955	1.83859106	0.06597536	0.2602036
Lrrc16a	1424.75929	0.46536351	0.25672082	1.81272212	0.06987469	0.26916555
Gm16740	88.3794306	0.46516659	0.30206612	1.53994955	0.12357265	0.37540112
Gm2518	3.25234713	0.46506727	0.35657343	1.30426788	0.19214226	NA
Akr7a5	2086.05712	0.46497105	0.19630752	2.36858499	0.01785628	0.11450844
Serpind1	2.51657329	0.46438792	0.3220464	1.44199068	0.149305	NA
Cdc123	5508.15033	0.4643354	0.18522008	2.50693882	0.01217818	0.08824923
Cd2	187.96227	0.46426865	0.4065373	1.14200751	0.2534509	0.54626394
Scn2b	413.32228	0.46416526	0.27153044	1.70944099	0.08736929	0.30760242
2810442I21R	112.932659	0.46409052	0.36924942	1.25684835	0.20880855	0.49484636
Wdr96	176.223503	0.46397853	0.24913111	1.86238693	0.06254857	0.25225436
Fam217b	49.9118921	0.46379398	0.42330861	1.09564033	0.27323621	0.56626801
Dleu2	120.243653	0.46319775	0.36048334	1.28493527	0.19881491	0.48195956
1700023L04F	123.403729	0.46267972	0.42137881	1.09801372	0.2721985	0.56560113
Ttc30b	199.85883	0.46258546	0.27633215	1.67401967	0.09412673	0.3197668
Gm6639	16.6406671	0.46251445	0.43094874	1.07324701	0.2831603	0.57568648
Adck2	339.471124	0.46154526	0.22642735	2.03838123	0.04151182	0.19544364

Homer2	1186.66334	0.46148116	0.33098893	1.39424953	0.16324227	0.43524923
Tenc1	256.432099	0.46131536	0.24370631	1.89291512	0.05836916	0.24160201
Shisa5	1744.24351	0.46040831	0.20620336	2.23278758	0.02556296	0.14450364
Cd38	2977.30532	0.46040635	0.29501769	1.56060594	0.11861676	0.36626554
Vmn2r27	2.54404864	0.46026195	0.32319551	1.42409759	0.15441822	NA
4930578M01	6.79669743	0.46019586	0.42125653	1.09243615	0.27464144	0.56715903
Vpreb3	32.3033092	0.45998591	0.4079805	1.12747033	0.25954368	0.55161456
4933416M07	13.2511393	0.45995358	0.40828407	1.12655282	0.2599316	0.55206177
Rnf113a2	1849.41269	0.45941315	0.2344639	1.95941951	0.05006368	0.21981566
Heg1	345.983275	0.4593388	0.27296586	1.68277016	0.09241959	0.31658914
Tfpi	2846.24398	0.45920033	0.22341784	2.0553432	0.03984587	0.19095318
Prdm13	9.77400681	0.45907892	0.42362088	1.08370229	0.27849682	0.57075699
Zhx2	41.8064912	0.45905226	0.39259522	1.16927625	0.24229235	0.53460391
Spata33	25.2687623	0.45904601	0.41014124	1.11923885	0.26303826	0.55523455
2610306M01	122.85795	0.45879946	0.28624732	1.60280787	0.10897708	0.34899146
3632454L22F	9.94787922	0.45877198	0.40089979	1.14435575	0.25247613	0.54598821
Rbm24	222.155528	0.45869897	0.37477174	1.22394226	0.22097401	0.50916681
2810454H06l	27.2062663	0.45866445	0.39208476	1.16980942	0.24207767	0.53454646
Tmppe	4425.35829	0.45862634	0.24757437	1.85247909	0.06395706	0.25595508
Slc25a43	98.0756064	0.4585808	0.34510542	1.32881368	0.18390945	0.46440776
1700003G18l	2.4723821	0.45841861	0.32339126	1.41753558	0.1563264	NA
Ppm1l	621.388375	0.45823529	0.28381644	1.61454812	0.10640859	0.34381051
Psen1	3283.91416	0.45805386	0.16710573	2.74110207	0.00612335	0.05446669
Irgc1	16.9111497	0.45800294	0.4317721	1.0607516	0.2888028	0.58216601
Ugdh	5911.02671	0.45771596	0.14852828	3.08167542	0.00205839	0.02494937
Prrt3	1137.65073	0.45756738	0.42948661	1.06538218	0.28670302	0.57993218
2310009B15f	144.733512	0.45754762	0.29241169	1.56473783	0.1176444	0.36422218
Crb2	129.579234	0.45748538	0.30969635	1.47720624	0.13962036	0.39955955
Pomc	65.5982851	0.45727519	0.35062838	1.30415911	0.19217934	0.4751259
Pitpnm2	1022.83661	0.45716393	0.24561654	1.86129132	0.06270305	0.25268077
Relt	495.369701	0.45709053	0.22287417	2.05089056	0.04027761	0.19201626
Slc3a1	7.63276078	0.45683927	0.42571274	1.07311627	0.28321895	0.57570918
Serpinf2	5.49020657	0.45669316	0.41145295	1.10995233	0.26701957	NA
Rmdn2	329.11757	0.45601829	0.29871091	1.52662081	0.12685533	0.38060552
H2afj	2940.58038	0.45601439	0.20282974	2.24826194	0.02455949	0.14103569
Irx3	40.0313033	0.45595991	0.43213274	1.05513853	0.29136197	0.58507276
Calcoco1	2472.00081	0.45594537	0.20182177	2.25914858	0.02387414	0.13838335
Tpd52l1	3175.40421	0.45565267	0.23453707	1.9427746	0.0520434	0.22506309
Fgf17	576.392936	0.45563017	0.37530522	1.21402565	0.22473793	0.51410702
Gm14327	5.19511834	0.45551866	0.3978293	1.14501035	0.25220487	NA
Gpr21	14.5745757	0.45548641	0.42949755	1.06050992	0.28891268	0.58216601

Cdh12	3.30308682	0.4554247	0.33428406	1.3623883	0.17307537	NA
Sirt3	1284.21616	0.45541966	0.20471158	2.22468925	0.02610211	0.14613366
Gm128	313.831897	0.45539379	0.31668748	1.43799117	0.15043656	0.41671517
Rpa2	11519.8936	0.45538878	0.2090801	2.17805892	0.02940165	0.15717603
Mrap2	2.67325886	0.45537015	0.34434304	1.32243169	0.18602444	NA
Acsm3	11.9168049	0.45529778	0.43185111	1.05429341	0.29174861	0.58556822
Gdpd3	69.8150715	0.45521665	0.39542848	1.15119845	0.2496506	0.54313326
Daf2	5.9643336	0.45516775	0.39458535	1.15353436	0.24869112	0.54187974
Ido2	206.712661	0.45511492	0.42351519	1.07461297	0.28254804	0.57490302
Gm3219	75.3561435	0.45502173	0.31640048	1.4381196	0.15040012	0.41668845
1700001G11I	31.4439047	0.45496516	0.41289872	1.10188078	0.2705135	0.5637571
Cyb5d1	284.152142	0.45493918	0.27824029	1.63505861	0.10203676	0.33556847
Pias3	2339.73725	0.45484232	0.19778771	2.29964907	0.02146811	0.12955009
Inhbe	71.5818386	0.45453122	0.39142787	1.16121323	0.2455552	0.53851768
Lin37	1153.44034	0.45452413	0.20916301	2.17306171	0.02977567	0.15861733
Bhmt	2025.7287	0.45452347	0.41239555	1.10215414	0.27039467	0.56366052
Ahsg	73.767662	0.45433939	0.35951772	1.26374687	0.2063209	0.49111298
Celsr1	3603.80386	0.45414147	0.24824307	1.82942256	0.06733633	0.26336702
Apol8	15.9819576	0.45391797	0.42877592	1.05863681	0.28976522	0.58316797
Ube2e2	447.574242	0.45391377	0.32929308	1.37844916	0.16806465	0.44308872
Gm16062	53.7553859	0.45378811	0.36663788	1.23770111	0.21582691	0.50281353
Gm7104	5.4435336	0.45374905	0.37928647	1.19632278	0.23157062	NA
Asf1a	3823.73182	0.4535309	0.17450556	2.59894816	0.00935099	0.07382763
Prpf2	2333.30199	0.45352043	0.24214055	1.87296353	0.06107342	0.248887
Nr1h4	5.31279111	0.45349755	0.34737316	1.30550543	0.1917208	NA
Stk33	428.241064	0.45346732	0.42201887	1.07451907	0.2825901	0.57490302
AA414768	485.55226	0.45341998	0.27432092	1.65288156	0.09835497	0.32810942
Rnd3	5224.21104	0.45340305	0.19426309	2.333964	0.01959761	0.12195374
Pusl1	1410.00164	0.45340181	0.2318713	1.95540292	0.05053553	0.22106118
Mro	2.55622108	0.4531951	0.3233	1.40177886	0.16098129	NA
1810062O18I	3.86518713	0.45291354	0.36215258	1.25061524	0.21107489	NA
Gal	7.50626523	0.45285698	0.42710433	1.06029592	0.28901	0.58221217
Fndc3b	3657.58329	0.45278846	0.22713264	1.99349796	0.04620695	0.20895868
Nipa1	304.615317	0.4526245	0.27861632	1.62454409	0.10425974	0.33956461
Trpc3	7.62715228	0.45234439	0.41840768	1.0811092	0.27964854	0.57206189
Cyp2u1	73.9563144	0.45205983	0.39720857	1.13809182	0.25508214	0.54797381
Rhog	457.578908	0.45174877	0.22691027	1.99086968	0.04649522	0.20982214
Rnf130	2291.52413	0.4515807	0.2617565	1.72519384	0.08449255	0.30143234
Rsph3b	65.2587451	0.45142628	0.35011048	1.28938237	0.19726519	0.48031705
Pgm2l1	1490.94074	0.45122575	0.32501162	1.38833727	0.16503437	0.43853774
1700024F13F	13.37634	0.45093911	0.41137767	1.09616819	0.27300518	0.56626801

Ubxn8	1362.02066	0.45031423	0.28416765	1.58467801	0.11303951	0.35620617
Asic3	26.1211236	0.45009658	0.41859248	1.07526198	0.28225745	0.57469219
Apcdd1	739.620272	0.45009523	0.23310696	1.93085286	0.05350125	0.22915812
Tinagl1	631.182117	0.45006836	0.39376259	1.14299422	0.25304099	0.54607863
Hfm1	190.558247	0.44997501	0.31231626	1.44076716	0.14965047	0.41542565
Hps5	2865.12632	0.44985535	0.15292957	2.94158517	0.00326537	0.03473309
Csrp1	7957.52539	0.44985007	0.2120219	2.12171514	0.03386167	0.17253695
Fer1l4	52.2201021	0.4498111	0.39369591	1.14253435	0.25323198	0.54616042
Mmp20	3.32299357	0.44977821	0.35780897	1.25703449	0.20874115	NA
Atp8b4	3.77497226	0.4497615	0.36487087	1.23265936	0.21770288	NA
Sphkap	5.01117794	0.44972053	0.39322588	1.14366972	0.25276063	NA
Ficd	481.373908	0.44964768	0.24151713	1.86176311	0.06263649	0.25248825
Igf2os	6.9413759	0.44953974	0.40265428	1.116441	0.26423341	0.55583648
9530053A07f	347.591824	0.44934753	0.22384728	2.00738433	0.04470876	0.20479112
4930562C15f	34.4597303	0.44921213	0.43128789	1.04155981	0.29761581	0.59197672
Dync1i1	33.3182641	0.44850118	0.40899657	1.09658909	0.27282106	0.56606275
Naip2	2.69697426	0.44785076	0.33969287	1.31839908	0.18737009	NA
Zc4h2	702.248655	0.4476992	0.22969714	1.94908476	0.0512853	0.22283815
Tspan1	250.766215	0.44761542	0.39650033	1.12891563	0.25893343	0.55124631
Mettl25	1206.21251	0.44752921	0.20179882	2.21769988	0.0265753	0.14758876
Mavs	5110.37412	0.4474164	0.21290139	2.10151941	0.0355954	0.17867786
1-Mar	11.2826732	0.44732467	0.43226286	1.0348441	0.30074172	0.59554751
Aff3	101.287146	0.4472831	0.39369229	1.13612359	0.25590484	0.54871314
Il11ra1	123.181086	0.44727587	0.31906448	1.40183538	0.16096441	0.43209007
Zrsr1	3416.10775	0.44717746	0.22838844	1.95796886	0.05023367	0.22042431
Ptp4a1	494.246735	0.4471535	0.31696751	1.41072347	0.15832617	0.42858888
Pld3	4492.73843	0.44714939	0.19535008	2.28896447	0.02208142	0.13171773
Cxx1c	40.6212961	0.44712038	0.42844516	1.04358836	0.29667588	0.59122008
Gm5136	3.61974462	0.44705304	0.36776689	1.21558806	0.22414189	NA
Lrif1	1214.71813	0.44696941	0.2004296	2.23005693	0.02574366	0.14505062
Nr4a2	62.48384	0.44674209	0.40307791	1.1083269	0.26772066	0.56056604
1700091H14l	12.5247563	0.44655416	0.42169334	1.05895473	0.2896204	0.58302742
Fgf11	437.733162	0.44646719	0.25822678	1.72897324	0.08381389	0.2998942
Ryr2	607.497973	0.44637624	0.26735052	1.66962926	0.09499274	0.32183418
Sult4a1	2361.01591	0.44627667	0.25627794	1.74137758	0.08161742	0.29530769
Zfp9	86.4468969	0.44621889	0.30839771	1.44689427	0.14792654	0.41286456
Zfand3	2954.92613	0.44591188	0.14848595	3.00305783	0.00267282	0.03005421
Gm11696	104.682731	0.44572146	0.30622703	1.45552617	0.14552365	0.4089048
Necab3	771.049265	0.44558951	0.27626209	1.61292311	0.10676121	0.34473498
Calr4	1740.965	0.44545889	0.43220647	1.03066225	0.30269923	0.59790613
Pcdhgc3	979.875547	0.44522644	0.27925639	1.59432857	0.11086246	0.35191307

Dcn	6.55864567	0.44522598	0.29539279	1.50723373	NA	NA
Havcr1	6.84551267	0.44495291	0.37913451	1.1736017	0.2405546	0.53277151
Ier2	4891.6511	0.44491401	0.18412552	2.41636257	0.01567644	0.10462848
Spata17	6.2192433	0.44478697	0.41755003	1.06523036	0.2867717	0.57999566
Amy1	5.53427025	0.4447294	0.40327897	1.10278352	0.27012119	NA
Rgs8	5.23513029	0.44453759	0.40392314	1.10054993	0.27109259	NA
Btbd16	4.95659209	0.44450367	0.38366241	1.15858019	0.24662735	NA
Alox8	22.594542	0.4444228	0.4187307	1.0613571	0.28852765	0.5820921
Ttc39a	136.217561	0.44440134	0.37470889	1.18599091	0.23562589	0.52749347
Hal	1394.44723	0.44419792	0.39353545	1.12873674	0.25900891	0.55124631
Crip3	7.67069785	0.44414882	0.41814833	1.06218007	0.28815395	0.58175514
Gm20748	734.394578	0.44397087	0.23869951	1.85995715	0.06289159	0.25324368
Slc9a7	23.5161777	0.44382845	0.42229823	1.05098346	0.29326619	0.5870231
Trim52	270.088116	0.44355904	0.41808046	1.06094182	0.28871634	0.58216601
1700023F06F	44.3511684	0.4434958	0.38363241	1.15604362	0.24766331	0.54081517
2700089E24F	1464.627	0.44326646	0.2609322	1.69878025	0.0893606	0.31116396
Slc25a14	526.080917	0.44326027	0.211587	2.09493151	0.03617708	0.18049079
4930590J08R	12.2590902	0.44314207	0.43203618	1.02570592	0.30503022	0.59969907
Zfat	787.806844	0.44309942	0.22677448	1.95392099	0.05071056	0.22139246
Frem3	11.3719314	0.44283797	0.42016047	1.05397342	0.29189509	0.58563546
Pdxp	1785.06202	0.44269534	0.33019869	1.34069381	0.18001989	0.45863256
Vat1l	12.1499011	0.44201101	0.43141997	1.02454925	0.30557592	0.6000014
Aox1	94.4307012	0.44158636	0.34233303	1.28993208	0.19707424	0.48021826
Gda	2.90398008	0.44101903	0.31266969	1.410495	0.15839357	NA
Gcm1	6.33047073	0.44032983	0.41008551	1.07375127	0.28293418	0.57530196
Snord33	25.0558589	0.44030386	0.41046858	1.07268591	0.28341207	0.57580419
4931440F15F	6.30088884	0.44020326	0.35648144	1.23485603	0.21688409	0.50437632
Gm10190	5.22185146	0.44003537	0.40227001	1.09388064	0.27400733	NA
Trim6	20252.6438	0.43924663	0.23853736	1.84141649	0.06556055	0.25939598
Shox2	7.94444705	0.43913363	0.42010216	1.04530201	0.29588341	0.59051371
Zdhhc15	1871.74401	0.43906935	0.26343092	1.66673434	0.09556724	0.3230796
Eef1a2	13.5984558	0.43885979	0.43117649	1.01781939	0.30876379	0.60336589
Ii18	8.36242124	0.43878737	0.42264467	1.0381945	0.29917951	0.59389081
Ubttd2	2384.83977	0.43871171	0.19720091	2.22469415	0.02610178	0.14613366
Ywhag	42294.5053	0.43867694	0.20354271	2.15520833	0.03114554	0.16325438
Ampd2	3211.62493	0.43859609	0.2145563	2.04420049	0.04093375	0.19383699
1110057K04F	3976.60997	0.43843123	0.14678677	2.98685799	0.00281861	0.03133105
Ucn	2.34405123	0.43821625	0.2956736	1.48209462	0.13831512	NA
Dusp6	383.558148	0.43817783	0.29663933	1.47714005	0.1396381	0.39955955
Pag1	389.070755	0.43811479	0.25833207	1.69593653	0.0898979	0.31219345
Tnfrsf13b	35.0720017	0.43788779	0.423323	1.03440585	0.30094647	0.59564809

Foxc1	50.4474297	0.43782168	0.42637408	1.02684872	0.3044917	0.59938614
Dgki	27.9597564	0.43774868	0.40108946	1.09139911	0.2750973	0.5675013
Klf14	8.22844932	0.43740778	0.41730993	1.04816048	0.29456467	0.58901572
Ptpn7	267.981006	0.43729006	0.28702629	1.52351919	0.12762886	0.38168394
Zkscan14	358.327855	0.43715212	0.22683065	1.92721804	0.05395246	0.2301623
Wnt3a	46.3971427	0.43708606	0.40496309	1.07932321	0.28044367	0.57248352
Btn2a2	216.537854	0.43697125	0.3449595	1.26673204	0.20525112	0.4903111
Xlr5b	409.403719	0.43690857	0.4290246	1.01837651	0.30849906	0.60292433
A930006K02F	17.6770005	0.43688866	0.42873544	1.0190169	0.30819494	0.60283181
1600002K03F	345.971211	0.43681999	0.24540148	1.7800218	0.07507239	0.28025934
Trappc13	7572.01363	0.43664024	0.19772089	2.20836678	0.02721872	0.15004546
Masp1	3.44814609	0.43656518	0.3476825	1.25564323	0.20924535	NA
Casp8	342.704548	0.43654588	0.32418645	1.34658891	0.17811267	0.4556391
Astl	4.68629912	0.43650017	0.39786126	1.09711654	0.27259045	NA
Cobll1	186.925217	0.43631709	0.40934452	1.0658921	0.28647242	0.57968137
Tsc22d3	523.724828	0.436306	0.2840835	1.53583721	0.12457831	0.37712751
Rab11a	6387.40113	0.43629857	0.21292536	2.04906817	0.04045545	0.19269956
Nupr1l	63.7259665	0.43629159	0.41367797	1.0546648	0.29157865	0.58530265
D330023K18I	61.1009749	0.43612171	0.35058527	1.24398184	0.21350625	0.50028431
Colq	10.9502494	0.43594471	0.43178213	1.00964046	0.31266758	0.60717951
C1qtnf6	67.3501437	0.4358091	0.42465664	1.0262623	0.30476796	0.59961979
Sh3bgr	23.29685	0.4357293	0.41684527	1.04530225	0.2958833	0.59051371
Adrb1	20.0340471	0.43536585	0.42733602	1.01879044	0.30830246	0.60291798
B4galt3	2123.46659	0.4353532	0.22017291	1.97732412	0.04800501	0.21427263
Coq4	1071.96099	0.43437642	0.2299708	1.88883295	0.05891422	0.24308171
Thap1	1142.07167	0.4340836	0.19143257	2.26755351	0.02335643	0.13649424
4930513N10I	189.348246	0.43408062	0.28679929	1.51353447	0.13014395	0.38579272
3110021N24I	4.88351544	0.43397791	0.40266694	1.07775898	0.28114133	NA
Gtf2h1	14313.1848	0.43369025	0.18541143	2.33906963	0.01933183	0.12083171
Vwa2	42.1611059	0.43350457	0.37842285	1.14555603	0.2519789	0.54567942
Rprd1b	4003.84232	0.43348317	0.20266758	2.13888756	0.03244478	0.16790307
Kcnc3	661.335259	0.43334383	0.18707119	2.31646486	0.0205329	0.12581054
Arxes2	1042.19387	0.43299068	0.28028042	1.5448481	0.12238301	0.37287974
Dnase1l3	3.84043901	0.4327729	0.38068342	1.13683149	0.25560873	NA
Plcl2	1023.00746	0.43265608	0.31320943	1.38136351	0.16716722	0.44179059
Xrcc1	9827.79237	0.43253904	0.21207569	2.03955033	0.04139513	0.19532548
Ikzf3	15.8023053	0.43246633	0.43224277	1.00051722	0.31706027	0.6115864
Itgb1bp2	40.7886588	0.43234159	0.39707993	1.08880244	0.27624102	0.56872206
Slc22a3	2.37952621	0.43233122	0.31972739	1.352187	0.1763155	NA
4930581F22F	35.5215908	0.43224333	0.3799566	1.13761236	0.25528238	0.54828787
Nr6a1	5164.13095	0.432195	0.34432603	1.2551912	0.20940936	0.4956659

Ankrd42	82.8075005	0.43218413	0.32024946	1.34952335	0.17716892	0.45464587
Gm15055	361.780515	0.43196819	0.38552512	1.12046706	0.26251478	0.5549512
Nptn	7157.13529	0.43189583	0.14686258	2.94081615	0.00327349	0.03479563
Gm9920	15.0908987	0.43174436	0.42963262	1.00491521	0.31493768	0.6093449
Sema3b	822.235526	0.4316569	0.38107719	1.13272823	0.2573284	0.55006377
Gm5643	11.8197187	0.43154852	0.43178381	0.99945506	0.3175743	0.61159656
Tmem29	827.627029	0.43109656	0.21389425	2.01546584	0.04385586	0.20213471
Snord58b	25.4806816	0.43100781	0.40096623	1.07492297	0.28240922	0.57481886
Golga7b	21.9943477	0.43097788	0.43180298	0.99808916	0.31823612	0.61218332
Fam83e	63.1335397	0.4309247	0.42956857	1.00315695	0.31578514	0.61014884
Acat3	7.64455292	0.43086155	0.42404066	1.01608547	0.30958869	0.60444616
Zfp668	593.341802	0.43065986	0.2308874	1.8652376	0.06214811	0.25121514
Arf4	13910.0305	0.43040807	0.18563321	2.31859417	0.02041705	0.12559556
Kirrel3	9.90215339	0.43016901	0.42883312	1.00311518	0.31580529	0.61014884
Lgmn	10129.9962	0.42995962	0.22740744	1.89070166	0.05866418	0.242436
Dnajb9	1292.97682	0.42995144	0.22627386	1.90013749	0.05741508	0.23881336
Mon1a	469.881542	0.42994736	0.2736862	1.5709501	0.11619424	0.36215582
Pcsk7	1087.8779	0.4296493	0.22887645	1.87721058	0.06048924	0.24741403
Gsta2	82.7902132	0.42935641	0.41775857	1.02776208	0.30406176	0.59891886
Itpka	2087.53778	0.42921547	0.23244899	1.84649313	0.06482064	0.25789153
Cdk5	1981.84577	0.42882334	0.20557879	2.08593184	0.0369848	0.18247163
Tnnt3	3.960457	0.42847326	0.35124114	1.21988345	0.22250906	NA
Unc80	248.561456	0.42836755	0.42106132	1.01735192	0.30898604	0.60364849
Spin2d	19.0635291	0.42834842	0.42998579	0.99619205	0.31915684	0.61303091
Tmem260	512.430856	0.42820958	0.31702013	1.35073309	0.17678095	0.45432499
Marcksl1	23677.5628	0.42818536	0.1956744	2.18825436	0.02865108	0.15527195
Ephb1	36.4664586	0.42801043	0.39177005	1.09250422	0.27461154	0.56715903
Wdr78	92.9895823	0.42798099	0.383615	1.1156524	0.26457095	0.55625052
Ypel5	3957.1599	0.42786285	0.22222673	1.92534377	0.05418636	0.23061725
Bfsp2	9.76551414	0.42770477	0.41760481	1.02418545	0.30574769	0.60009099
Man2a1	8057.01161	0.42756693	0.30280409	1.41202494	0.15794262	0.42791306
Hcrtr1	10.510191	0.42750361	0.40803851	1.04770407	0.29477497	0.58928469
Spaca6	70.3636034	0.42741611	0.33823428	1.2636688	0.20634893	0.49111298
Hoxc5	80.0606101	0.4270995	0.39237795	1.08849008	0.27637882	0.5688904
Sec61g	49.9807061	0.42701687	0.34982198	1.22066908	0.22221134	0.51090346
Pln	2.04438413	0.42690215	0.29314263	1.456295	0.14531109	NA
Gpr75	133.245879	0.42686552	0.29401081	1.45187014	0.14653772	0.41074406
Plekho2	1172.05519	0.42681096	0.23736589	1.79811411	0.07215893	0.27396081
En1	16.5913418	0.42677311	0.42963891	0.99332974	0.32054929	0.61450469
Gm16938	118.378454	0.42674996	0.33839409	1.26110347	0.20727157	0.49270563
Fgfr1	6606.71532	0.42664199	0.25365497	1.68197768	0.09257317	0.31681456

Uros	896.545449	0.42660464	0.18078094	2.35978769	0.0182854	0.11644398
Gm16023	9.33085035	0.42650113	0.430841	0.98992699	0.32220981	0.61660582
Emc9	263.947203	0.42642912	0.31517944	1.35297252	0.17606441	0.45375831
Trim68	223.354804	0.42582275	0.29052828	1.46568432	0.14273431	0.40394199
Fkbp14	678.251646	0.42572951	0.21728953	1.95927301	0.05008082	0.21981566
Slc15a1	2025.49309	0.42571545	0.30915569	1.37702606	0.16850419	0.44336524
A830052D11	1.99242316	0.42556598	0.29286177	1.45312919	0.14618789	NA
Zfp300	41.112389	0.42555429	0.3912937	1.08755723	0.27679062	0.56928593
Oasl1	274.896314	0.42552216	0.33657716	1.26426331	0.20613553	0.49102568
Cav1	4.76838845	0.42499791	0.3138169	1.35428627	NA	NA
Kif26b	65.6435782	0.42494894	0.40538388	1.04826305	0.29451743	0.58899698
Snx31	135.251388	0.42483631	0.29971923	1.41744765	0.15635209	0.42521829
Nr1i3	30.8192246	0.42478324	0.42671734	0.9954675	0.31950895	0.61311496
Pgrmc1	6523.94971	0.42434309	0.25588341	1.6583455	0.09724775	0.32598491
Epha5	3.46615112	0.42428064	0.36090734	1.17559437	0.239757	NA
Arntl	2333.87961	0.4236773	0.20777548	2.03911114	0.04143894	0.19532548
Tbx6	23.8830682	0.42291711	0.41275497	1.02462027	0.3055424	0.6000014
Gabrg1	5.45017482	0.4227474	0.36573371	1.15588853	0.24772675	NA
BC064078	18.2384511	0.42268568	0.42025196	1.00579109	0.31451608	0.60909583
Olfml2a	4.58037888	0.42223849	0.39311447	1.07408534	0.28278444	NA
Slc18a1	28.0085251	0.42217226	0.41016561	1.02927268	0.30335156	0.59850547
Ino80dos	58.1356331	0.42216828	0.41776322	1.01054439	0.31223455	0.60664161
Atp6v1g2	30.0964672	0.42209628	0.42933822	0.9831323	0.32554233	0.61911566
Csl	14.3740157	0.42197456	0.4282778	0.98528234	0.3244854	0.61869452
Socs3	5613.10951	0.42194158	0.20551085	2.05313528	0.04005946	0.19132821
Cpn1	468.401631	0.4218906	0.37638752	1.12089423	0.26233289	0.55478597
Ak7	1666.26345	0.42186352	0.43226841	0.97592956	0.32909937	0.62234394
C730036E19F	2.89150391	0.42172287	0.32895602	1.28200382	0.19984131	NA
Ccdc92	892.430251	0.42172124	0.23714042	1.77836086	0.07534461	0.28071011
Smagp	1083.48739	0.4216173	0.32849236	1.28349195	0.19931978	0.48250548
3110007F17F	3.20827084	0.42130427	0.37034804	1.13759013	0.25529167	NA
Itgb5	4741.23615	0.42129934	0.28924956	1.45652541	0.14524743	0.40845258
Foxd4	3.4270437	0.4212486	0.33688664	1.25041644	0.21114746	NA
Mfsd10	4332.37591	0.42122338	0.21169085	1.98980436	0.04661249	0.20988317
Zfp956	793.575747	0.42121033	0.19131737	2.20163142	0.02769135	0.15189709
Sh3glb1	4310.59287	0.4210172	0.27011297	1.5586708	0.11907432	0.36689611
Gm16515	3975.34917	0.42088752	0.22860751	1.8410923	0.06560803	0.25939598
Gfod2	528.347778	0.42073781	0.21064659	1.99736355	0.0457857	0.20788715
1600002D24I	8.62204092	0.42053946	0.41758186	1.00708267	0.31389505	0.60841899
Prtg	918.301526	0.42038318	0.34320184	1.22488614	0.22061813	0.50895393
Irf8	89.4329453	0.42028834	0.43016578	0.97703807	0.32855031	0.62221988

Gale	1678.57378	0.42026873	0.21948323	1.91481022	0.05551671	0.23447593
Cuta	3174.4366	0.42018332	0.21675328	1.93853265	0.05255827	0.22676332
2810459M11	62.3685469	0.41989902	0.43147191	0.97317812	0.33046479	0.62369343
Rsrp1	11261.2269	0.41974305	0.26696473	1.57227906	0.11588585	0.3616578
Zfyve9	1847.12313	0.41960558	0.17335645	2.42047857	0.01550009	0.10358485
Jam2	28892.947	0.41940529	0.16819735	2.4935309	0.01264796	0.09030688
A930012L18f	3.66404787	0.41921005	0.35736921	1.17304468	0.24077789	NA
Meis2	3016.90998	0.41876489	0.31889513	1.31317431	0.18912422	0.47064662
Scel	5.25906009	0.41875976	0.408012	1.0263418	0.3047305	NA
Frmd6	2403.7873	0.41873845	0.1843559	2.27135908	0.02312525	0.13585975
6230400D17f	32.3357882	0.41864004	0.42476408	0.98558249	0.32433803	0.618534
Gm10696	3.44267834	0.41846845	0.32254632	1.29739022	0.19449696	NA
Zfp784	50.3340285	0.4183622	0.35543181	1.17705334	0.23917422	0.53119084
Pdc	6.92096766	0.41825355	0.40789564	1.02539352	0.30517754	0.59971168
Kcnmb4	8.17278945	0.41800894	0.42833768	0.97588646	0.32912073	0.62234394
Duox1	244.155607	0.41798343	0.36584211	1.14252411	0.25323623	0.54616042
Lhx6	142.828248	0.41786678	0.35028872	1.19292102	0.2329003	0.52452319
Atg13	6487.10181	0.41768756	0.24358132	1.71477667	0.08638618	0.30559406
4930591A17f	497.492266	0.41734498	0.40171021	1.03892051	0.29884171	0.59352329
Mrap	21.6142112	0.41692443	0.43140895	0.9664251	0.33383151	0.62713382
Zfp213	1023.65041	0.41644936	0.28114299	1.48127242	0.13853399	0.39784712
Pcgf5	778.767471	0.41644187	0.29713297	1.4015337	0.16105454	0.43209007
Ercc4	2512.82469	0.41602257	0.21338571	1.94962715	0.05122057	0.22277806
Fam53a	2614.75371	0.4158219	0.17135755	2.42663306	0.01523966	0.10263148
Ptpla	277.006926	0.41570124	0.26045797	1.5960396	0.11047995	0.35123019
Cetn1	2.76913315	0.41550139	0.32639586	1.27299835	0.20301863	NA
Ubald1	1339.59005	0.41528241	0.19518083	2.12768036	0.03336359	0.17089501
Lama3	2467.80011	0.41472514	0.4311008	0.96201432	0.33604241	0.62870495
4930451G09f	32.4730655	0.41470122	0.39116353	1.06017352	0.28906566	0.58221217
Hras	2987.28306	0.41459347	0.20233537	2.04904097	0.04045811	0.19269956
Ttll7	22.495458	0.41434504	0.42087942	0.98447446	0.32488228	0.6188465
Zfp319	560.535715	0.41418629	0.25082054	1.65132524	0.09867218	0.32864663
A330035P11f	59.079559	0.41409511	0.33820725	1.22438271	0.22080789	0.50898556
Htra2	2758.25329	0.41398042	0.19207395	2.15531791	0.03113697	0.16325438
Dach1	4.48717145	0.41378474	0.37333022	1.10836123	0.26770584	NA
Thap6	848.603902	0.41361967	0.23971604	1.72545678	0.08444519	0.30140167
Dcun1d3	2388.71548	0.41356455	0.19725958	2.09654983	0.03603344	0.18008508
Gm11744	88.8810601	0.41351798	0.36125927	1.14465709	0.25235123	0.54598821
Acaa1a	2378.87603	0.41347417	0.1918468	2.15523098	0.03114376	0.16325438
Lman2l	1103.20392	0.41335397	0.20773758	1.9897891	0.04661417	0.20988317
Dnajc5	7417.55809	0.41329248	0.17199759	2.40289689	0.01626577	0.10742776

Wdr81	1222.69781	0.41311015	0.30017392	1.37623597	0.16874859	0.44357832
Trim47	204.604868	0.4129896	0.31282151	1.32020844	0.18676544	0.46781595
Gphn	1204.60169	0.4127876	0.22811417	1.80956584	0.07036314	0.27004374
1700047M11	8.71748037	0.41277284	0.42769764	0.96510432	0.33449256	0.62758652
Tmem117	939.08511	0.4125731	0.38796872	1.06341847	0.28759222	0.58105062
Hkdc1	40.2646215	0.41241196	0.42714599	0.96550586	0.3342915	0.62746736
Clip1	2157.88608	0.41210687	0.17773021	2.31872155	0.02041014	0.12559556
Myoz1	8.36479399	0.41179498	0.41839415	0.98422738	0.32500373	0.6188465
Smim3	404.800536	0.41170222	0.26132419	1.57544623	0.11515348	0.36009487
Slc35g3	64.0195968	0.41169888	0.35926193	1.14595745	0.25181276	0.54548505
Pak1	3396.05342	0.41160245	0.17684271	2.32750589	0.01993836	0.12367825
Uchl5	6181.57899	0.41134747	0.20271069	2.02923425	0.04243444	0.19822707
Xlr4a	807.121857	0.41134148	0.23948477	1.71761018	0.08586774	0.30438324
Susd4	325.802922	0.41104134	0.30380417	1.35298125	0.17606162	0.45375831
Rtkn	2752.44579	0.41090704	0.21750945	1.88914568	0.05887231	0.24297328
Sec63	4248.21316	0.41086196	0.18935719	2.16977218	0.03002411	0.15957106
Bcmo1	16.2603371	0.41067299	0.43168846	0.95131797	0.34144299	0.63476149
Rhod	588.481453	0.41066126	0.24694744	1.66295002	0.09632244	0.32415284
Slc25a21	4.01200512	0.41052765	0.36694921	1.11875879	0.26324306	NA
Shh	9.6061407	0.4105273	0.42591311	0.9638757	0.33510825	0.62800397
3110001I22R	623.803892	0.41052515	0.20886122	1.96554034	0.04935173	0.21783943
Prss42	316.31157	0.41034775	0.3953683	1.03788732	0.29932252	0.59404542
Crtc2	1396.85475	0.41003776	0.20927006	1.9593713	0.05006932	0.21981566
Itga11	10.0169371	0.41003262	0.4067399	1.00809538	0.31340868	0.60787966
Herpud2	1766.2097	0.40998179	0.18792265	2.18165184	0.02913524	0.156451
Pramef8	1665.16472	0.40991746	0.23512389	1.74341049	0.08126194	0.29463847
Lrrc8d	5188.27031	0.40991161	0.23009185	1.78151294	0.07482869	0.27986075
Gm6524	8.67095412	0.40986425	0.42546595	0.96333032	0.33538178	0.62800397
Aldh7a1	7772.74783	0.4098126	0.21701744	1.88838557	0.05897421	0.24326469
Ccser1	58.9119613	0.40975178	0.41398103	0.98978395	0.32227973	0.61660582
Pigr	3.97024414	0.40968426	0.34142237	1.19993385	0.23016503	NA
Jund	4395.28187	0.40948996	0.26905079	1.52198019	0.12801404	0.38211884
H2-M5	2633.177	0.40948765	0.27183535	1.50638116	0.13196935	0.38846402
Sema4c	306.427417	0.40947897	0.31316467	1.30755161	0.19102544	0.47327941
Gtf2ird2	356.594193	0.40946393	0.24773368	1.65283918	0.0983636	0.32810942
Prox2	20.9275201	0.40943583	0.42171822	0.97087536	0.33161035	0.62484824
Shisa4	167.351183	0.40927963	0.40068144	1.02145893	0.30703706	0.6015791
Sirt4	565.754693	0.40918751	0.26333281	1.5538797	0.12021312	0.36901616
Zfp457	12.9232742	0.40913215	0.43102883	0.94919904	0.34251939	0.63623018
Spata3	2.37760158	0.4090876	0.33541921	1.21963081	0.22260486	NA
Bloc1s6	1678.79068	0.40907262	0.18172514	2.25105127	0.02438229	0.14032901

Spag8	12.7006043	0.40896511	0.43223002	0.9461747	0.34405949	0.63732661
Tmem18	2575.77022	0.40886604	0.16599028	2.46319258	0.01377059	0.09560111
0610009L18F	24.3705194	0.40877885	0.41927658	0.97496228	0.32957897	0.62303576
Crybb3	67.4910537	0.40847044	0.39635201	1.03057493	0.3027402	0.59790613
Cacng7	246.166132	0.40845428	0.36235695	1.12721526	0.25965148	0.55169288
C430002E04F	855.665581	0.40844231	0.26361771	1.54937355	0.12129195	0.37070775
1700028J19R	39.8124458	0.40842938	0.37273999	1.09574875	0.27318874	0.56626801
Dio2	4.38721077	0.40799191	0.36191882	1.12730227	0.2596147	NA
2310034O05I	19.2983831	0.40789726	0.41557297	0.98152982	0.32633154	0.61957682
Rnf185	3695.33037	0.40789354	0.18737471	2.17688677	0.02948902	0.1574177
Nrip3	74.7853309	0.40775083	0.36151164	1.12790511	0.25935999	0.55144791
Sp110	17.9152518	0.40770974	0.42441879	0.96063074	0.33673787	0.62940031
Parp14	386.822394	0.40768878	0.36163769	1.12734041	0.25959858	0.55165586
Pdia3	53570.8498	0.4076091	0.19104637	2.13356104	0.03287873	0.16924764
Usmg5	3903.72284	0.40759227	0.21881327	1.86274017	0.06249883	0.25214118
C920009B18f	9.48376947	0.40737129	0.40739328	0.999946	0.31733664	0.61159656
Esr2	7.09807166	0.4073373	0.42280884	0.96340772	0.33534296	0.62800397
Ptges3l	137.945264	0.40727983	0.27677554	1.47151669	0.14115144	0.40171844
1700034P13F	24.5185457	0.40696934	0.40377507	1.00791099	0.31349719	0.60787966
Klf10	9162.83546	0.40652455	0.1847352	2.20057976	0.02776579	0.15193025
Ubash3b	84.3237397	0.40651552	0.42216362	0.96293356	0.33558086	0.62821934
Ccl27a	143.837263	0.40644574	0.29486716	1.37840285	0.16807894	0.44308872
9130015A21f	2.21036448	0.40635979	0.31220225	1.30159149	0.19305607	NA
Spock1	89.4566127	0.40633778	0.35264664	1.15225195	0.24921756	0.54272262
Coprs	3532.98859	0.4061442	0.17944397	2.26334826	0.02361423	0.13751903
Dnal1	870.787472	0.40604152	0.22671749	1.79095805	0.07330003	0.27633666
Zcchc13	2.84626744	0.40600195	0.34745737	1.16849429	0.24260744	NA
Apc2	36.4057806	0.40589582	0.41160835	0.98612145	0.32407352	0.618534
Vtcn1	2.22053862	0.40580853	0.30912387	1.31276994	0.18926048	NA
Gm10857	9.71928444	0.40576452	0.40689021	0.99723343	0.31865122	0.6124515
Zfp618	20.3040991	0.40567997	0.42710012	0.94984747	0.34218976	0.63584574
Ctf2	7.83770787	0.40564031	0.38010148	1.06718951	0.28588627	0.57903326
Gm2061	53.7530279	0.40560802	0.35788171	1.13335777	0.25706404	0.55002791
Nwd2	9.25982239	0.40557494	0.38588684	1.05102041	0.29324922	0.5870231
Il6ra	921.708769	0.4054989	0.29724147	1.36420703	0.17250242	0.44946602
Ntn3	89.733227	0.40526832	0.32540173	1.24543996	0.21297007	0.4996189
4930467K11F	2.67696496	0.40523534	0.35768867	1.13292753	0.25724469	NA
Tpp1	7642.75628	0.40519063	0.16048507	2.52478702	0.01157684	0.08512127
Eps8	3428.66549	0.40512231	0.21901598	1.8497386	0.06435123	0.25681792
Rab43	814.44731	0.40505545	0.22555899	1.79578498	0.07252872	0.27462725
Scrn3	2273.35818	0.40498783	0.2268508	1.78526076	0.07421903	0.27838402

Olfr1349	7.63503696	0.40496284	0.42022017	0.96369205	0.33520034	0.62800397
Lepre1	5051.74082	0.40483761	0.19572015	2.06845136	0.0385976	0.18763091
Zswim6	1081.66438	0.4048316	0.2705458	1.49635144	0.1345621	0.39216176
Rbm18	3086.5138	0.40482857	0.15467144	2.61734528	0.00886167	0.07126008
Gm19710	3.98169417	0.40481019	0.3883237	1.04245552	0.29720054	NA
Sos2	1427.01277	0.40410572	0.26416307	1.52975855	0.1260765	0.37900942
Pank1	3638.1037	0.40387799	0.19872146	2.03238236	0.04211496	0.19725327
Lcn9	2.1990714	0.40377163	0.30874993	1.30776269	0.19095381	NA
Ddit4	6589.83173	0.40363677	0.23012158	1.75401531	0.07942788	0.29073126
Slc6a2	2.22253692	0.40362903	0.31361769	1.28700979	0.19809088	NA
Cyp2ab1	125.497835	0.40332562	0.32935921	1.22457673	0.22073474	0.50898556
Dnm2	7629.26858	0.40306531	0.18099117	2.22698883	0.02594802	0.1457795
Ttc34	34.1179893	0.40305878	0.41373178	0.97420309	0.32995571	0.6233922
Tstd1	112.595204	0.40298651	0.3282805	1.22756761	0.21960933	0.50805484
Cdk14	43.7981509	0.40257441	0.43134021	0.93331063	0.35065961	0.64260047
AY358078	15.9688142	0.40221934	0.43064272	0.93399776	0.35030505	0.64217774
1700049E22F	25.0759872	0.40220386	0.41997733	0.95767994	0.33822418	0.63149528
Nkx1-1	4.85264431	0.40185984	0.39673385	1.01292047	0.31109815	NA
AV320801	7.14224739	0.40179937	0.41787099	0.96153929	0.33628108	0.62900013
Fmnl1	519.525259	0.40173694	0.26090126	1.53980451	0.12360801	0.37543519
Pard3	5753.79281	0.40166466	0.21958413	1.82920624	0.06736872	0.26339085
Hspa2	634.59765	0.40155434	0.23573876	1.70338698	0.08849567	0.30976524
Medag	6.44375453	0.40146801	0.37809543	1.06181662	0.28831895	0.5819794
Pter	852.507303	0.4012014	0.27836968	1.44125395	0.14951295	0.41519213
C330046G13I	677.097004	0.40115935	0.27221425	1.47368975	0.14056514	0.40079365
Renbp	6972.27314	0.40114889	0.1736429	2.31019464	0.02087738	0.1275193
Nynrin	4539.31437	0.40112745	0.3578194	1.12103327	0.2622737	0.55478597
Bbx	2575.39341	0.40108255	0.26754362	1.49912956	0.13384003	0.39101
Ocstamp	12.5347263	0.40094993	0.43226899	0.92754727	0.35364246	0.64520848
Xlr5c	338.517149	0.40070849	0.42626958	0.94003538	0.34719941	0.63965147
Tgm2	1910.13742	0.40059303	0.34369187	1.16555866	0.24379293	0.53593778
E030024N20I	3.51103001	0.40053937	0.3770985	1.06216115	0.28816253	NA
Pknox2	1222.77371	0.40041126	0.43217592	0.92650063	0.35418587	0.64571447
Fam131a	103.865944	0.40028192	0.3264186	1.22628406	0.2200918	0.50864133
Cdc5l	22320.6816	0.40017211	0.15981749	2.50393193	0.01228217	0.08860542
Mboat7	2758.90386	0.40010632	0.16410081	2.43817394	0.01476167	0.10047016
Grm5	2.02820186	0.40009344	0.28580875	1.39986423	0.16155398	NA
Capn2	1001.78692	0.40006709	0.31061837	1.28796983	0.19775647	0.48093412
Trim16	499.401488	0.40001556	0.30985152	1.29099111	0.19670676	0.47976582
4930429B21F	214.994517	0.39956443	0.36177448	1.10445722	0.26939485	0.5624056
Gripap1	1077.49518	0.39938688	0.20699327	1.92946799	0.05367279	0.22973636

Tdo2	4.44732778	0.3993836	0.32269381	1.23765499	NA	NA
Asic1	723.796662	0.39908652	0.21565915	1.85054294	0.06423534	0.25666076
Acad12	252.174687	0.39895667	0.22932759	1.7396802	0.08191519	0.29593522
Fosb	24.5671473	0.39886502	0.43167306	0.92399795	0.35548738	0.64710105
Tmem51	1532.74726	0.39872747	0.23882632	1.669529	0.09501259	0.32183418
Ccdc102a	355.22265	0.39856161	0.23641109	1.68588373	0.0918182	0.31542255
Fstl1	4919.61759	0.3985134	0.35221009	1.13146502	0.25785942	0.55029118
Hoxa6	3.82825402	0.39845777	0.36368448	1.09561391	0.27324777	NA
Jtb	2769.96969	0.39812368	0.19529756	2.03854922	0.04149504	0.19544364
Pcdhga8	32.4349678	0.39810583	0.42603535	0.93444319	0.35007533	0.64198366
Abcb5	15.9880106	0.39807805	0.43130976	0.92295165	0.3560324	0.64764054
Paqr8	1860.35291	0.39800803	0.25897939	1.53683284	0.12433425	0.37653786
Leprel4	382.314372	0.39795257	0.28885337	1.37769753	0.16829669	0.44322322
Usp17la	48.8330247	0.39777458	0.41950669	0.94819606	0.34302965	0.63670595
Lrrc9	220.350618	0.39766218	0.38102014	1.04367759	0.29663458	0.59122008
Fhl1	3257.51965	0.39759939	0.33741724	1.17836119	0.23865264	0.53071461
Lmtk3	659.845144	0.39745738	0.22257783	1.78570066	0.07414774	0.27825084
Gopc	2151.81648	0.39742308	0.21006375	1.89191654	0.0585021	0.24189476
Hoxc11	15.5938643	0.39741737	0.43032461	0.92352926	0.35573146	0.64739379
Popdc3	77.7650454	0.39718453	0.42504422	0.9344546	0.35006944	0.64198366
Mfap3l	163.09815	0.39714505	0.38535649	1.03059131	0.30273251	0.59790613
Mesdc1	2878.44587	0.3971267	0.24444721	1.62459088	0.10424976	0.33956461
Fam65c	5.33851186	0.39700271	0.40519321	0.97978617	0.32719168	NA
Gnb3	3.47253662	0.39694948	0.35282353	1.1250652	0.2605614	NA
Tsnax	4221.90658	0.39689346	0.19988846	1.98557464	0.04708058	0.21117682
Gm595	9.86837591	0.39666032	0.42625894	0.93056187	0.35208024	0.64425364
Stmn3	341.6489	0.39663027	0.28694867	1.3822342	0.1668998	0.44143393
Stat3	9595.22292	0.39659092	0.2294192	1.72867365	0.08386752	0.2998942
Wars2	811.970651	0.39658936	0.1987672	1.99524553	0.04601611	0.20850713
Nek5	94.1127026	0.39643339	0.33437734	1.1855869	0.23578548	0.52758273
Zfp612	490.93093	0.39637758	0.21492104	1.84429395	0.06514031	0.2584176
Fancc	2091.98232	0.3963671	0.20733117	1.91175841	0.05590719	0.23548556
Heyl	2.20822544	0.39630571	0.31160162	1.27183456	0.20343191	NA
Saysd1	352.363746	0.39597191	0.25515631	1.5518797	0.12069101	0.36940975
Mir3473d	3.07528743	0.39586409	0.3483678	1.13633951	0.2558145	NA
Pcsk5	50.8043778	0.39564227	0.43082652	0.91833314	0.35844448	0.64959011
Pdf	1879.50707	0.3956019	0.19332731	2.04628053	0.04072878	0.19342449
Aqp6	16.0221917	0.39523235	0.43197603	0.91494046	0.36022289	0.65122369
Ttc21b	540.733257	0.39505944	0.26814141	1.47332497	0.14066343	0.40100037
Zfp385a	1948.83075	0.39494087	0.24155264	1.63500953	0.10204705	0.33556847
Nfkbiz	293.766939	0.39473046	0.22990417	1.71693473	0.0859911	0.3046122

Dpcd	1188.24422	0.39463479	0.20954551	1.88328914	0.05966119	0.24522196
Gm6548	819.626163	0.39441421	0.1883598	2.09394048	0.03626528	0.18058504
Scarna13	7.69569564	0.39429558	0.4245702	0.9286935	0.35304795	0.64466039
Adig	2.18312578	0.39378057	0.31115738	1.26553503	0.2056796	NA
Defb23	2.80647891	0.39344588	0.34684746	1.13434845	0.25664841	NA
Cpt1c	2081.6804	0.39340209	0.17719458	2.22017004	0.02640723	0.14687367
Gnai1	1710.92493	0.39339142	0.28972802	1.35779558	0.17452856	0.45195232
2410114N07I	25.6130618	0.39244691	0.40501361	0.96897216	0.33255908	0.62583232
Atg10	386.043083	0.39229869	0.30093912	1.30358154	0.1923763	0.4751259
Nek6	2332.54663	0.39226943	0.24887132	1.57619382	0.11498114	0.35980159
Ap1m2	896.008901	0.39224467	0.34877029	1.12465047	0.26073718	0.55280269
Gm15417	47.529027	0.39209753	0.35641558	1.10011334	0.27128274	0.56486131
Arf3	9222.52766	0.39164618	0.20723766	1.88984081	0.05877925	0.2426967
Snora41	115.758028	0.39147413	0.34703311	1.12805989	0.25929463	0.55144791
Cutal	16.0464725	0.39142754	0.430654	0.9089142	0.36339542	0.65367309
Sdk2	80.1012287	0.39138307	0.33769297	1.1589909	0.2464599	0.53951265
C2cd3	2919.79447	0.39136132	0.23361484	1.67524165	0.09388683	0.31913313
A730017L22F	25.8139062	0.39128613	0.41285459	0.94775773	0.3432528	0.63670595
Lin7b	94.5824491	0.39125429	0.37130447	1.05372902	0.292007	0.58578442
Uvrag	2277.48167	0.39115552	0.1954738	2.00106367	0.04538553	0.20673414
Plxdc2	459.704772	0.39105652	0.40149947	0.97399012	0.33006144	0.62344049
Adam3	7.01829988	0.39087783	0.41076867	0.95157654	0.34131178	0.63466932
Adamts5	5.92015677	0.39056502	0.29913385	1.30565305	NA	NA
Zp2	7.42579932	0.39037413	0.39173351	0.99652985	0.31899277	0.61284294
Bend7	273.396666	0.39014713	0.29059312	1.342589	0.1794051	0.4575904
Rtn3	13135.1588	0.39007244	0.15432269	2.52764149	0.01148315	0.08472551
Zfyve16	1220.98272	0.39004455	0.27538062	1.41638344	0.15666327	0.4258251
Ppef2	154.760253	0.38994016	0.29434636	1.32476639	0.18524865	0.46588862
Echdc1	1409.32442	0.38975041	0.22465006	1.73492233	0.08275456	0.29798916
Hist2h2be	65.8502483	0.38971464	0.35608182	1.0944525	0.27375657	0.56667239
Fyb	4.22076372	0.38963865	0.37899665	1.0280794	0.30391248	NA
Dleu7	171.623414	0.38962536	0.40937858	0.95174829	0.34122465	0.63465908
Sfxn4	199.450499	0.38917636	0.27658543	1.40707473	0.15940523	0.43021707
Tbkbp1	1659.52957	0.38891978	0.24527372	1.58565612	0.11281734	0.35572231
Timd2	3.7996723	0.38890683	0.3594975	1.08180677	0.2793384	NA
Spag16	140.922253	0.38877049	0.37287105	1.04264058	0.29711479	0.59143953
Vdr	215.065524	0.38834515	0.40523011	0.95833241	0.33789517	0.6311083
Mrps21	1527.35076	0.38830624	0.24188369	1.6053428	0.10841839	0.34791876
Lurap1	218.892437	0.38810029	0.28545573	1.35958134	0.17396245	0.45118246
Zfp160	1746.35715	0.38786729	0.19415951	1.99767338	0.04575208	0.20779516
Fam120b	963.721682	0.38771532	0.17285727	2.24297954	0.02489813	0.14219276

Cebpb	276.05903	0.38769833	0.31967678	1.21278227	0.22521308	0.51458839
Ezr	29932.207	0.3876113	0.20979397	1.84758074	0.06466302	0.25757546
Tmem88b	8.52150148	0.38747931	0.42489322	0.91194517	0.36179758	0.65254528
Cmpk1	7366.07554	0.38720504	0.18391839	2.10530898	0.03526442	0.1775897
Slc35f4	16.6061241	0.38716681	0.4148914	0.93317628	0.35072896	0.64265182
Slc24a4	1.9160178	0.38703359	0.2822527	1.3712308	0.17030302	NA
Pradc1	985.38809	0.38680609	0.17540257	2.20524762	0.02743672	0.15081954
Mir409	1.99727688	0.38676373	0.30625301	1.26288958	0.20662886	NA
Abcc3	36.6965219	0.38632958	0.41210016	0.93746526	0.34851928	0.64083073
Klk11	160.017116	0.38603545	0.32436232	1.19013654	0.23399273	0.52565461
Pxn	3012.49212	0.38598366	0.19327429	1.99707716	0.0458168	0.20790694
Mfap2	4.52652806	0.38593501	0.39519867	0.97655949	0.32878728	NA
Hipk3	2360.36178	0.3857114	0.23424789	1.64659499	0.09964132	0.33009875
Mog	9.74434585	0.38568868	0.42973388	0.89750587	0.36944904	0.6596971
Gab3	54.9419421	0.3856453	0.36633416	1.05271455	0.29247184	0.58633874
Cyp27b1	30.7954219	0.38561211	0.39327943	0.98050414	0.32683733	0.62013754
Snora7a	117.061335	0.38560336	0.3404115	1.13275656	0.2573165	0.55006377
Oxsm	671.023685	0.38558897	0.26659851	1.44632831	0.14808514	0.41292308
Ube2j1	1314.76404	0.38558781	0.18090742	2.13140956	0.03305542	0.16974956
Gsta4	38193.7836	0.38554075	0.20662223	1.86592098	0.06205242	0.25096937
Scp2	7540.49749	0.38527595	0.24127583	1.5968278	0.1103041	0.35105463
Gsk3b	6237.27551	0.38525956	0.20581278	1.87189327	0.06122137	0.24922868
Asb13	480.162481	0.38525735	0.25123909	1.53342917	0.12517015	0.37825902
Mrpl33	3097.44439	0.38521922	0.23680665	1.62672469	0.10379558	0.33917927
Pax2	14.2914203	0.38496644	0.43074134	0.89372997	0.37146639	0.66164325
Cpeb3	469.092003	0.38496349	0.26207029	1.46893222	0.14185118	0.40253636
Nkx2-4	12.1013912	0.38477103	0.40698616	0.94541552	0.34444678	0.63755825
Ccdc74a	128.388582	0.38470965	0.30626438	1.2561358	0.20906674	0.49516588
Mfi2	163.668926	0.38470185	0.41595391	0.92486653	0.35503534	0.64688395
Dlgap3	4319.8344	0.3841957	0.20531347	1.87126402	0.0613085	0.2493875
Trmt61b	788.255729	0.38411841	0.24367698	1.57634262	0.11494687	0.35980159
Arrdc4	3471.40163	0.3840994	0.18771165	2.04622038	0.04073469	0.19342449
Akt3	1711.90526	0.38404297	0.29407134	1.30595169	0.19156899	0.47409787
Sox30	6.03564188	0.3839193	0.41536129	0.92430208	0.35532906	0.64696432
1700061117R	1.72501145	0.38389939	0.28166455	1.36296667	0.17289302	NA
Tifa	15.0257774	0.38389842	0.3878325	0.98985624	0.32224439	0.61660582
Mir434	3.65583363	0.38368534	0.37627538	1.01969293	0.30787412	NA
Bhlhe22	60.1956211	0.38356782	0.39816616	0.96333606	0.3353789	0.62800397
Zfp438	320.958959	0.38341651	0.29476869	1.30073692	0.19334852	0.47605581
Atox1	5935.75652	0.38339649	0.26905375	1.42498101	0.15416269	0.42237209
Tspo	1074.20372	0.38323685	0.2746493	1.39536801	0.16290489	0.43462627

Fam20c	119.324415	0.38322318	0.35066192	1.09285657	0.27445678	0.56715903
Rab27a	925.098189	0.38297005	0.22592367	1.69513027	0.09005071	0.31253583
Pramef6	3.85738493	0.38271405	0.31897505	1.19982441	0.23020754	NA
Vps37b	1149.96848	0.38267357	0.17562878	2.1788773	0.02934078	0.15701257
Dnajc12	461.33859	0.38259449	0.25353592	1.50903465	0.13128993	0.38745025
4930556G01I	2.0390637	0.38235072	0.30737096	1.24393898	0.21352202	NA
Acox3	3005.74346	0.38230085	0.19349202	1.97579645	0.04817784	0.21479746
Acta2	6.66175039	0.38205058	0.36058907	1.05951791	NA	NA
Tmem175	869.261934	0.38197304	0.23005788	1.66033452	0.09684717	0.32510718
Gm4980	5.2393832	0.38192932	0.39276049	0.97242297	0.33084017	NA
Zfp947	480.912762	0.38165947	0.1914331	1.99369638	0.04618525	0.20895868
Arap2	1265.99281	0.38135242	0.27357142	1.39397758	0.16332437	0.43535436
Zswim5	690.351051	0.38128768	0.26719878	1.42698136	0.15358527	0.42145836
Morn2	322.869782	0.38128341	0.271452	1.40460711	0.16013814	0.43144633
Tmod1	5.0575309	0.38116695	0.40209231	0.94795881	0.34315042	NA
Clvs2	55.3805756	0.38114883	0.38435613	0.99165539	0.32136566	0.61561436
Lkaaear1	2.18475992	0.38107734	0.30198211	1.26192027	0.20697748	NA
Mmaa	315.960098	0.38076851	0.22928714	1.66066233	0.09678128	0.32506387
Fam89a	109.129371	0.38067509	0.40085262	0.94966348	0.34228327	0.63594351
Aven	2493.55145	0.38059589	0.19408522	1.96097303	0.04988217	0.21943921
L1cam	44.7726834	0.38051219	0.41235141	0.9227862	0.35611863	0.64764054
1700029J07R	23.0477119	0.38023057	0.42380472	0.89718342	0.36962105	0.65992847
Slc9a2	8.88634659	0.37975527	0.4173031	0.91002265	0.36281057	0.65337545
Asap1	3357.84351	0.37925408	0.22901655	1.65601171	0.09771945	0.3266927
Trpv3	51.6665866	0.379165	0.4260953	0.88985963	0.37354127	0.6633372
Fgf5	7.7361298	0.37906548	0.41647733	0.91017074	0.36273247	0.65337545
Apon	8.72722503	0.37869757	0.41407029	0.91457314	0.36041577	0.65134522
Maf	3.26171558	0.37857752	0.35261664	1.07362351	0.28299146	NA
1700007K13F	1679.99021	0.37836417	0.27414018	1.38018499	0.16752969	0.44231821
G6pc2	4.28192071	0.37828317	0.34216122	1.10556997	0.26891269	NA
Mettl11b	4.41911748	0.37820283	0.34749262	1.08837659	0.27642889	NA
Lrrc74	16.8800219	0.37812286	0.42495659	0.88979173	0.37357773	0.6633372
Afap1l1	316.074127	0.37789772	0.33042041	1.1436876	0.25275322	0.54598821
Serf1	128.30792	0.37777062	0.32455356	1.16397005	0.24443615	0.53699054
Vps53	1912.18502	0.3777138	0.25837375	1.46188924	0.14377156	0.40540192
Slc4a1	32.0033586	0.37761221	0.41883337	0.901581	0.36727949	0.65733265
2810410L24F	193.922905	0.37751975	0.37257536	1.01327085	0.31093081	0.60555499
Pacrg	21.2278119	0.3774975	0.4293745	0.87918007	0.37930365	0.66834881
Cdipt	3433.97837	0.37746841	0.17677912	2.13525442	0.03274023	0.16898306
Fam21	16772.0177	0.37731965	0.16633736	2.26839989	0.02330484	0.13636812
Trim65	27.8926463	0.37724696	0.40347947	0.93498428	0.3497964	0.64198366

Nat3	3.28017402	0.37717718	0.35962022	1.04882084	0.29426058	NA
Cmtm2b	5.12075626	0.37712397	0.40720215	0.92613452	0.35437608	NA
Lrrc28	1894.44549	0.37709986	0.25737548	1.465174	0.14287345	0.40406505
Pbx4	403.843201	0.3770922	0.26745208	1.40994302	0.15855651	0.4288771
Cggbp1	16832.9308	0.37707497	0.23521665	1.6030964	0.10891337	0.34885929
Tmem106a	656.841693	0.37697876	0.26116374	1.44345751	0.14889163	0.41398423
Spon2	54.6373376	0.37696688	0.35540355	1.06067282	0.28883862	0.58216601
Metap1d	1417.36336	0.37687151	0.21251547	1.77338386	0.07616512	0.28295361
Slc10a6	18.0731713	0.37673243	0.39488496	0.95403086	0.34006802	0.63349279
Gm4532	62.2392475	0.37667411	0.40509908	0.92983205	0.35245805	0.64439796
Tdpoz4	5.48531385	0.37664813	0.32451182	1.16066075	0.24577989	NA
Lrriq3	32.5672259	0.37602361	0.38919671	0.96615312	0.33396757	0.62718213
Ppp1r11	2557.38342	0.37585726	0.21371656	1.75867164	0.0786333	0.28897585
Donson	2702.45766	0.37579804	0.19731677	1.90454181	0.05683966	0.23756811
Hoxd12	4.68642731	0.37569798	0.36988139	1.01572555	0.3097601	NA
Gpr126	688.801941	0.37562003	0.38427002	0.97748982	0.32832672	0.62193444
Gpsm3	241.457788	0.37561815	0.32505729	1.15554444	0.24786754	0.54110799
4933421O10I	31.3259712	0.37542504	0.41977741	0.89434312	0.37113833	0.66146638
Gm5617	286.993634	0.3753761	0.31475881	1.1925833	0.23303261	0.52474516
1700094D03I	424.653717	0.37534649	0.24278608	1.54599676	0.12210535	0.37232555
Ccdc80	14.0816332	0.37532956	0.33409968	1.12340592	NA	NA
Syndig1	464.39278	0.37525008	0.37099507	1.01146918	0.31179193	0.60634544
Col12a1	44.8353959	0.37515282	0.29652149	1.26517917	NA	NA
Rad9b	309.680705	0.37502985	0.30093262	1.24622533	0.21268168	0.49936733
Lrrc14	827.570557	0.37496782	0.23182774	1.61744158	0.105783	0.34250081
Edaradd	49.2020697	0.37496591	0.42499867	0.8822755	0.37762784	0.6672936
Rps6kl1	1203.58062	0.37492881	0.24050706	1.55890978	0.11901774	0.36689611
Ctsd	27382.809	0.37492838	0.20968805	1.7880293	0.07377128	0.2772625
Dmrt3	176.73092	0.37482237	0.33600309	1.11553251	0.2646223	0.55625052
Pak3	73.788346	0.37472029	0.37974019	0.98678071	0.32375016	0.61843
Fgfr2	276.766763	0.37449874	0.39387845	0.95079775	0.34170705	0.63510056
Rell2	49.5835191	0.37448199	0.40013523	0.93588857	0.34933056	0.64174375
Hmgcll1	136.283792	0.37447433	0.41817292	0.89550113	0.37051926	0.66077465
Arrdc5	22.6928327	0.37441635	0.42463182	0.8817435	0.37791553	0.66753344
1700101I11R	1.6909944	0.37438705	0.2788913	1.34241208	0.17946242	NA
Stpg2	1.6909944	0.37438705	0.2788913	1.34241208	0.17946242	NA
Capsl	1264.36716	0.37432709	0.27819698	1.34554692	0.17844868	0.45619849
Htr1b	27.5383832	0.37426652	0.41919844	0.89281468	0.37195642	0.66204582
Tgfa	95.047574	0.374241	0.31257454	1.19728563	0.23119524	0.52281662
Cd209f	7.41966001	0.37419699	0.35308822	1.05978329	0.2892432	0.5824943
Lurap1l	355.487872	0.3736395	0.32864274	1.13691693	0.25557301	0.54856501

Dpep1	10.6792311	0.37358169	0.42618972	0.87656194	0.38072462	0.66978428
Dsc2	188.051765	0.37342223	0.33214031	1.12429062	0.26088976	0.55289719
Npm2	111.599935	0.37340709	0.39350744	0.94892002	0.34266129	0.63641774
Nlrp4c	450.797221	0.37338951	0.34609323	1.07886973	0.2806458	0.57267063
Sh3rf3	47.2625749	0.37330469	0.42838793	0.87141737	0.38352631	0.67248981
Zfyve19	939.512978	0.37325714	0.1891207	1.97364502	0.04842212	0.21545419
Zdhhc18	4481.90423	0.37311385	0.24538216	1.52054189	0.12837484	0.3824439
Pde1c	18.0022955	0.37302823	0.43069738	0.86610285	0.38643376	0.67531632
D630023F18f	815.982171	0.37299477	0.29073664	1.28293006	0.19951658	0.48250548
B9d1	1282.51471	0.37296547	0.27306338	1.36585681	0.17198391	0.44859473
AU022754	1.67844457	0.37295418	0.27848125	1.3392434	0.18049145	NA
4930549C01f	9.02794502	0.37277308	0.41573371	0.89666311	0.36989871	0.66024881
Artn	13.8686379	0.37264075	0.42930319	0.868013	0.38538722	0.67452523
Abcc12	25.8657485	0.37253852	0.43146422	0.86342854	0.38790189	0.67702159
Trnp1	228.539284	0.37246235	0.34243907	1.08767481	0.27673869	0.56928593
Tgm6	3.77606603	0.37243374	0.35669747	1.04411658	0.29643146	NA
Rcbtb2	2759.65807	0.372426	0.33372239	1.11597548	0.26443263	0.55607733
Lamb1	4657.3422	0.3721081	0.2018859	1.84316046	0.06530559	0.25887514
Tceb1	8551.69975	0.37199866	0.2120728	1.75410832	0.07941195	0.29073126
Cadm2	8.31078956	0.37192826	0.42585504	0.87336824	0.3824624	0.67137416
Slc7a6	5515.14673	0.37187668	0.15926793	2.33491246	0.01954799	0.12174244
Eif4ebp3	972.074903	0.37170375	0.22444747	1.65608348	0.09770491	0.3266927
Slc39a5	5.67264422	0.37165716	0.38862511	0.95633852	0.33890123	NA
Ext1	2546.4335	0.37148167	0.23224425	1.59953006	0.10970287	0.35016203
Acvr1	1209.06549	0.37133161	0.20564475	1.8056946	0.07096606	0.27115311
Fam206a	1315.81492	0.37132966	0.20276137	1.83136296	0.06704639	0.26304109
C030006K11f	276.991565	0.37121552	0.25943952	1.43083647	0.15247709	0.42004804
Zfp36l2	2422.33552	0.37083976	0.18258685	2.03103211	0.04225174	0.19756905
Prss41	124.462027	0.37073318	0.32719586	1.13306197	0.25718823	0.55006377
Arhgef5	117.421835	0.37046326	0.39173597	0.94569632	0.3443035	0.63748824
Spry1	636.619779	0.37042356	0.33523651	1.10496185	0.26917612	0.56217537
Smim22	176.626685	0.3703036	0.38349521	0.96560164	0.33424355	0.6274531
4930413G21f	3.9777964	0.37029977	0.38079809	0.97243077	0.33083629	NA
Tspan33	259.83077	0.37027891	0.26163182	1.4152671	0.1569902	0.42643748
Gipc1	7171.46364	0.37024455	0.19049619	1.94357981	0.05194614	0.22483007
Mst1r	69.4699377	0.37023509	0.36013592	1.02804264	0.30392977	0.59881058
1810009A15f	40.310921	0.37006841	0.377114	0.98131706	0.32643641	0.61957682
Rhob	1282.17678	0.37005172	0.21117205	1.75237076	0.07971008	0.29132599
Meis3	126.684615	0.37003895	0.36704989	1.00814348	0.31338559	0.60787966
Phf21b	384.597367	0.36975943	0.21338067	1.73286286	0.08312005	0.29872888
Dapk3	1585.23528	0.36971311	0.20811274	1.77650397	0.07564989	0.28151027

Dnaja1	10760.8397	0.36930465	0.18054057	2.04554939	0.04080073	0.1936198
Asl	2330.01946	0.36922825	0.2125373	1.73723974	0.08234486	0.29691219
Fn1	127383.573	0.3692222	0.23153159	1.59469473	0.11078052	0.35177853
Rnu73b	33.3794744	0.36904529	0.38718835	0.95314151	0.34051838	0.63402793
Lrrd1	3.92936836	0.36901539	0.3871618	0.95312966	0.34052438	NA
Pmm2	1734.74526	0.36898	0.21290016	1.73311283	0.08307562	0.29863822
Wdr20rt	168.505132	0.36890125	0.26399213	1.39739488	0.16229486	0.43365074
Serf2	9269.27424	0.36889984	0.19632799	1.87899769	0.06024481	0.24686878
Ptpro	19.5484035	0.36889591	0.43053656	0.8568283	0.39153978	0.67959748
Smap2	1821.08375	0.36875103	0.22546127	1.63554043	0.10193581	0.3353509
Snord43	24.997131	0.36864066	0.43205753	0.85322124	0.39353663	0.68119858
Srp54c	963.141866	0.36863964	0.16793114	2.19518336	0.02815045	0.15349495
Hmgcl	2132.54363	0.3684487	0.20989218	1.75541887	0.07918769	0.29029885
Prdx6	17498.0543	0.36840077	0.37872353	0.97274327	0.33068091	0.62385283
Spire1	2741.85037	0.36818364	0.25679375	1.43377184	0.15163738	0.41871751
Sftpb	4.15544429	0.36816393	0.39728778	0.92669332	0.35408579	NA
Apex2	1046.92852	0.36777303	0.25702639	1.43087654	0.1524656	0.42004804
Serpina3i	288.22783	0.36766816	0.286509	1.28326914	0.1993978	0.48250548
Nrxn1	17.8305394	0.36766811	0.42625683	0.86255065	0.38838457	0.67748384
Zfp697	79.7236581	0.36747063	0.33981931	1.08137066	0.27953227	0.57200243
Atf3	326.406748	0.36727968	0.32258881	1.13853819	0.25489582	0.54795202
9330133O14I	141.703573	0.36722194	0.27756677	1.323004	0.18583405	0.46651464
2310033P09F	1124.65333	0.36717544	0.24058237	1.5261943	0.12696148	0.3807865
Znrf2	6398.95649	0.36715462	0.22387562	1.63999377	0.10100646	0.3332806
Atxn7	975.397467	0.36694203	0.23998588	1.52901507	0.12626071	0.3792699
Mir196a-1	166.804918	0.36687157	0.28894384	1.26969854	0.20419203	0.48934971
Gm8817	4.61695441	0.36681452	0.39943311	0.91833778	0.35844205	NA
Btnl9	1.66589474	0.36680984	0.27663985	1.32594723	0.18485718	NA
Dusp8	30.602957	0.3666877	0.43224958	0.84832403	0.39625754	0.6829437
Tbc1d30	22.8934953	0.36657935	0.43224349	0.84808529	0.39639048	0.68309711
Sema4g	1263.77486	0.36647075	0.23591472	1.55340352	0.12032676	0.36907327
Ncf1	26.0963856	0.36642435	0.42328002	0.86567835	0.38666657	0.6755479
Csn3	2.21847325	0.36631262	0.32864975	1.11459883	0.26502237	NA
Zfp219	5166.06514	0.36613966	0.20815594	1.75896807	0.07858293	0.2888991
Tha1	32.3016947	0.36610348	0.39895521	0.91765561	0.35879919	0.64978295
Cand1	21863.1021	0.36601732	0.18142661	2.01744007	0.04364961	0.2017424
Dnajc3	5872.59304	0.36591274	0.25802282	1.41814102	0.1561496	0.42502178
Rcor3	1009.07541	0.36590535	0.23326368	1.56863407	0.11673323	0.36262853
Cdk6	1419.6174	0.36586609	0.25521636	1.43355266	0.15169996	0.41871751
Acot12	2.07308075	0.36555431	0.30154303	1.21227911	0.22540556	NA
Nrsn2	17.2568207	0.36553995	0.42604167	0.85799108	0.39089739	0.67903559

Hexa	9979.49425	0.36552066	0.22251202	1.64270075	0.10044486	0.33206167
Ccdc3	262.806429	0.36532977	0.40610385	0.8995969	0.36833481	0.65876649
Gpr88	2.07070507	0.36497385	0.29840036	1.22310126	0.22129145	NA
Magea6	11.6627492	0.36442225	0.43213714	0.84330232	0.39905938	0.68473712
Zdhhc24	1271.97671	0.36442084	0.27429082	1.32859291	0.18398231	0.46444825
Tmem119	4.44697679	0.36411546	0.38996751	0.93370717	0.35045496	NA
Fam50a	4474.19417	0.36399307	0.17931642	2.02989254	0.04236746	0.19800363
Nptx1	109.979042	0.36387669	0.37278362	0.97610698	0.32901145	0.62234394
Cmip	4353.11199	0.36357649	0.20894714	1.74004053	0.0818519	0.29588073
2610203C20F	6.34763764	0.3632378	0.40046776	0.90703382	0.36438891	0.65441876
Kcnj9	7.4348131	0.36314435	0.42028088	0.86405156	0.38755957	0.67657598
Pcdhga6	3.46964574	0.36303117	0.3489354	1.0403965	0.29815573	NA
Chn1os3	4.46718794	0.36279846	0.37506251	0.96730134	0.33339342	NA
Adamts20	17.7443014	0.36277207	0.43198888	0.83977177	0.40103636	0.68630443
Cecr6	2.02613649	0.36275798	0.3038396	1.1939128	0.23251208	NA
Cckbr	108.837554	0.36271737	0.36103237	1.00466715	0.31505715	0.6093449
Lrrc51	105.713525	0.36264615	0.38607351	0.93931893	0.34756702	0.63980565
Ndufc1	4419.47785	0.36262903	0.22731727	1.5952551	0.1106552	0.35161403
Odf3l2	9.10178912	0.36243936	0.42291647	0.85699987	0.39144496	0.67959748
Casd1	840.365191	0.36204184	0.21861615	1.65606172	0.09770932	0.3266927
Ndnl2	2402.87982	0.36202641	0.1703659	2.12499339	0.03358716	0.17153169
Rap2a	2110.30855	0.36195288	0.28601172	1.26551764	0.20568583	0.49055804
Tssc4	1953.22427	0.36193844	0.21219499	1.70568794	0.0880662	0.30893693
Ubl7	2750.18316	0.36148726	0.18168443	1.98964362	0.04663021	0.20988317
3425401B19F	2.24200585	0.36147797	0.29513618	1.22478366	0.22065674	NA
Lasp1	17815.7977	0.3613432	0.17206421	2.10004856	0.03572457	0.17908433
Zscan4a	74.6207239	0.36124862	0.4314764	0.83723843	0.40245856	0.68708234
Gstt2	538.088336	0.36123494	0.35127149	1.02836394	0.30377866	0.5985887
3110002H16I	3395.82568	0.36120701	0.20482087	1.76352638	0.07781175	0.28677459
1700092M07	15.7591588	0.36109354	0.42986494	0.84001626	0.40089927	0.68622834
Nrsn1	10.3945182	0.36102895	0.419594	0.86042446	0.38955511	0.67794934
Slc35b1	3355.12011	0.36098001	0.19216082	1.87853081	0.06030859	0.24693492
Acadvl	2333.31718	0.36095173	0.2216544	1.62844381	0.10343082	0.33855033
Vsig8	3.93852308	0.36078465	0.37117229	0.97201397	0.3310436	NA
Gm590	7.63616354	0.36071669	0.35599576	1.01326121	0.31093541	0.60555499
Fam105a	13.4045316	0.36066783	0.43225516	0.83438642	0.40406327	0.68846147
Spon1	6.91187406	0.36060279	0.41149581	0.8763219	0.38085506	0.66983455
Grik2	2.40239751	0.3604498	0.3541685	1.01773534	0.30880375	NA
0610010F05F	2510.06207	0.36025042	0.22161532	1.62556641	0.10404193	0.33939891
Slc15a4	1522.17973	0.35968091	0.18835584	1.90958198	0.05618706	0.23611787
Tmed9	8805.61524	0.35960698	0.17494023	2.05559914	0.03982117	0.19089366

Rhbdf1	666.215008	0.35946204	0.22129401	1.62436412	0.10429812	0.33956461
Capn9	20.8072049	0.35944653	0.43181993	0.83239911	0.4051837	0.68916712
Itpa	5125.56215	0.35899656	0.18198924	1.97262521	0.04853828	0.21572414
Dscam	30.1802133	0.35883078	0.4311187	0.83232479	0.40522564	0.68916712
Dcaf5	2212.42001	0.3587068	0.2001129	1.79252209	0.07304937	0.27560749
Nutf2	1113.94559	0.35847708	0.1733235	2.06825436	0.03861611	0.18764984
Jak3	4788.73372	0.35842675	0.29309021	1.222923	0.22135878	0.5096956
Zmynd12	9.60660747	0.35836043	0.42659803	0.84004238	0.40088463	0.68622834
Mdp1	2868.97454	0.35817876	0.20068305	1.78479823	0.07429405	0.27859821
Pced1a	842.106898	0.35813727	0.21209522	1.68856833	0.09130218	0.31461118
Abhd6	974.925661	0.35808096	0.25923541	1.38129651	0.16718781	0.44179059
Catip	143.370113	0.35804347	0.3839241	0.93258919	0.35103212	0.64305577
Dqx1	429.244004	0.35787724	0.26565771	1.34713665	0.17793623	0.45556244
Snhg10	98.3407263	0.35766669	0.32239035	1.10942118	0.26724853	0.55978401
Timmdc1	2117.6057	0.35759914	0.2129229	1.67947716	0.09305909	0.31749931
Tmem28	95.8072172	0.35757767	0.32783348	1.09072956	0.2753919	0.56766083
Tbc1d8b	395.071682	0.35747608	0.27511813	1.29935487	0.19382217	0.47646674
Cyp26b1	11.523617	0.35733957	0.43216868	0.82685209	0.4083209	0.69198369
Gabra1	6.37291643	0.35733932	0.37751188	0.94656444	0.34386077	0.63719957
Ptrf	2007.77274	0.35714023	0.33549523	1.06451655	0.28709476	0.58057356
Ptgfrn	17679.6167	0.35697672	0.21246227	1.68018882	0.09292058	0.31730523
Card6	289.062255	0.35693512	0.27531632	1.29645465	0.1948189	0.47770871
Fam173b	275.042646	0.35658835	0.23285403	1.53138148	0.12567514	0.37885621
Mir7079	40.1037121	0.35636146	0.37978354	0.93832781	0.34807597	0.64035602
Zdhhc19	9.89453094	0.35632992	0.43087142	0.82699826	0.40823805	0.69198369
Cotl1	1039.57607	0.35607628	0.26205101	1.35880524	0.17420831	0.45151891
Gm13238	16.4201775	0.35600343	0.43100319	0.82598791	0.40881095	0.6924459
Nkpd1	10.7590772	0.35598071	0.42956626	0.82869803	0.4072753	0.69113538
Tmsb10	25007.5196	0.35582214	0.17639015	2.01724492	0.04366996	0.2017424
Cenpb	3807.11876	0.35562849	0.19646974	1.81009293	0.07028138	0.26987118
Taf12	2646.83253	0.35560879	0.19663737	1.80844968	0.07053654	0.27025546
D730005E14f	128.380682	0.35547897	0.34550667	1.02886283	0.30354414	0.59850576
Ly6d	3.79784356	0.35537166	0.37967726	0.93598352	0.34928167	NA
Timm10b	1194.7071	0.35529908	0.21265091	1.67080909	0.09475939	0.32118642
Fam154b	13.8742974	0.35517157	0.43176876	0.82259673	0.41073736	0.69330041
Ltbp1	1015.42368	0.35500962	0.39724743	0.89367381	0.37149644	0.66164325
Nsun4	1809.47856	0.3544678	0.16191345	2.1892425	0.02857922	0.1549824
Acot6	20.8370943	0.35445988	0.42118288	0.84158188	0.40002203	0.68523795
Ldhc	459.07347	0.35427537	0.40258488	0.88000167	0.3788584	0.66806067
Gpr124	619.848086	0.35427351	0.39561534	0.89549994	0.3705199	0.66077465
Pomt2	1481.41787	0.35426808	0.18946277	1.86985592	0.06150383	0.24979003

Apoc2	18.2372455	0.35420913	0.43024252	0.82327783	0.41035002	0.69309338
Ndnf	3.24554294	0.35398306	0.34990901	1.01164317	0.31170869	NA
St3gal5	692.836474	0.35391523	0.36502526	0.96956365	0.33226404	0.62562515
Syt2	9.56316787	0.3539146	0.42552634	0.83171102	0.40557254	0.68944672
Ampd1	55.5891377	0.35387276	0.36538957	0.96848075	0.33280433	0.62603606
1110008P14F	863.504704	0.3536713	0.2376657	1.48810408	0.13672345	0.39489535
Procr	50.5154863	0.35363284	0.37308827	0.94785302	0.34320428	0.63670595
Dhrs13	814.142346	0.35358567	0.24340964	1.45263623	0.14632478	0.4103691
Glis1	13.4964949	0.3535538	0.43226428	0.81791121	0.41340789	0.69566523
Arhgap40	10.0622604	0.35327309	0.43198762	0.81778522	0.41347984	0.69566523
Magea3	7.09543417	0.35307739	0.41333303	0.85422013	0.39298303	0.68084661
Dusp3	604.778222	0.35256221	0.28934627	1.21847852	0.22304218	0.51207347
9130024F11F	13.7018421	0.35235581	0.42719605	0.82481055	0.40947916	0.69283107
Chpt1	1992.24969	0.35229957	0.23119917	1.5237925	0.12756055	0.38162642
Mospd3	943.995735	0.35221966	0.22307828	1.57890614	0.11435759	0.3582544
Acsl6	1591.86331	0.35219633	0.26691388	1.31951301	0.18699766	0.46805096
Pomgnt1	3203.67557	0.3521704	0.15430372	2.28231961	0.02247048	0.13322089
Ly6g5b	19.9967996	0.35198727	0.42986127	0.81883922	0.41287815	0.69515344
Map4k5	3783.54355	0.35177695	0.17269912	2.03693537	0.04165652	0.19571013
Calcoco2	16177.6261	0.35171535	0.33165562	1.06048363	0.28892463	0.58216601
Gabra3	5.50386272	0.35161426	0.40067553	0.87755361	0.38018601	NA
2900092D14I	4.46413114	0.35155085	0.39608914	0.88755488	0.37478024	NA
Sharpin	1360.6328	0.35112035	0.18834707	1.86421988	0.06229083	0.25167179
Bpifb1	13.6463159	0.35108824	0.43203557	0.81263735	0.41642601	0.69837863
Fam167b	2.52981082	0.35101156	0.31580841	1.11146997	0.26636611	NA
Znrf1	2266.94864	0.35086503	0.25034433	1.40152979	0.1610557	0.43209007
Hhat	293.551742	0.35041673	0.23660172	1.48104049	0.13859578	0.39795108
Gria3	54.8133695	0.35029113	0.42035705	0.83331808	0.40466536	0.68911875
Ccdc146	2.40415917	0.35020212	0.3504808	0.99920487	0.31769546	NA
Pithd1	2816.35687	0.35018076	0.15640911	2.23887701	0.02516392	0.14318482
Actr1a	7003.84238	0.34989863	0.17295559	2.02305476	0.0430675	0.20005532
Gm13119	72.6033753	0.34956418	0.41955222	0.83318396	0.40474099	0.68911875
Plekhg1	5092.41927	0.34938283	0.20831046	1.67722175	0.09349913	0.3186469
Gm10789	23.613749	0.34936387	0.42624272	0.81963599	0.41242365	0.69501519
E330023G01I	1.83313184	0.34929014	0.29665147	1.17744281	0.23901881	NA
Gm15127	2.04931151	0.34926391	0.32520842	1.07396946	0.28283637	NA
Rims1	351.787849	0.34902831	0.341742	1.0213211	0.30710233	0.60163119
Lrrc8c	274.374582	0.34895516	0.4189306	0.83296652	0.40486361	0.68915154
Chst14	231.455261	0.34893425	0.26288496	1.32732679	0.18440061	0.4644599
Ptprf	14841.6372	0.34892062	0.23594486	1.4788227	0.13918771	0.39898766
Efnb2	343.929192	0.34888627	0.37195562	0.93797822	0.3482556	0.64061071

Errfi1	1190.31008	0.34886165	0.20543594	1.69815299	0.08947889	0.31119611
Fam229b	160.510494	0.34850153	0.32803519	1.06239067	0.28805837	0.58169013
Tshz2	2.44793771	0.34835942	0.29125961	1.19604441	0.23167923	NA
Faim2	2.51797737	0.34832585	0.33847536	1.02910251	0.30343151	NA
Hsph1	19354.2207	0.34806226	0.34831023	0.9992881	0.31765515	0.61159656
Mecom	25.8928818	0.34783954	0.4284456	0.81186396	0.4168697	0.69852668
Slco3a1	33.584408	0.34771707	0.43034345	0.80799897	0.41909118	0.69973018
A930018P22f	1.8582315	0.34770812	0.295739	1.1757263	0.23970427	NA
Spic	3828.27748	0.34766185	0.33209757	1.04686659	0.29516111	0.58982915
Abcf3	4428.83514	0.34763281	0.17048091	2.03913045	0.04143701	0.19532548
Bbs2	1067.11476	0.34745466	0.22120082	1.5707657	0.11623708	0.36215582
Ints3	11532.2942	0.34738303	0.19327696	1.79733288	0.07228279	0.27429691
Hdac8	614.506833	0.34735505	0.22684078	1.53127253	0.12570205	0.37885621
Slc32a1	6.81982748	0.34734203	0.38481901	0.90261143	0.36673216	0.65694132
Farp1	1596.3148	0.34728371	0.25002825	1.38897786	0.16483948	0.43811635
Rraga	5958.48792	0.34708334	0.15649856	2.21780527	0.02656811	0.14758876
Gpr107	6729.73447	0.34686163	0.17597316	1.9711053	0.04871183	0.21604611
Tcea2	369.056872	0.3467882	0.33842303	1.02471808	0.30549623	0.59999644
Pnliprp2	12.2341387	0.34651026	0.41891626	0.82715878	0.40814707	0.69198369
Atp5g3	24137.7366	0.34617593	0.164363	2.10616703	0.03518985	0.17733647
Tor1aip1	1485.64748	0.3458931	0.21282754	1.62522717	0.10411416	0.33939891
Sell	4.18973868	0.34584981	0.29033478	1.1912104	0.233571	NA
Usp27x	346.032864	0.34579359	0.22652188	1.52653506	0.12687667	0.38060552
5830444B04f	23.0367446	0.3456571	0.42256656	0.81799444	0.41336036	0.69566523
Chpf2	808.422064	0.34554889	0.23065224	1.49813798	0.1340974	0.39132084
AV039307	4.15637751	0.34541222	0.37000936	0.93352292	0.35055004	NA
Zw10	5232.03705	0.345278	0.1781809	1.93779475	0.05264827	0.22685875
Tmem126a	2612.76483	0.34522521	0.16284731	2.11993189	0.03401179	0.17307505
Ermp1	7631.02607	0.34512286	0.25999732	1.32740927	0.18437334	0.4644599
BC030307	126.184697	0.3450168	0.28277456	1.22011256	0.22242221	0.5111405
Wdr95	339.87765	0.34490984	0.37130885	0.92890283	0.35293945	0.64465132
Gm12171	20.5207564	0.34490372	0.40779873	0.84576947	0.39768136	0.68380615
Micall2	395.753653	0.34473353	0.36214664	0.95191695	0.3411391	0.63465177
Tsc22d4	2131.52679	0.34469992	0.16461373	2.0939925	0.03626065	0.18058504
Snord17	19.2160427	0.34461066	0.4179705	0.8244856	0.40966369	0.69284177
Ctdspl	157.665633	0.34458765	0.40334371	0.85432757	0.39292352	0.68081934
Trpm6	147.847188	0.34451635	0.4178453	0.82450695	0.40965157	0.69284177
Bbs1	715.349706	0.34449175	0.33295796	1.03464039	0.30083689	0.59559316
Gm4787	7.72215087	0.34442403	0.41853603	0.82292563	0.41055029	0.69313511
Ooep	14319.6394	0.34434578	0.3029978	1.13646295	0.25576286	0.54856501
Nudt1	1990.32101	0.34399256	0.20366876	1.6889805	0.09122317	0.31447827

Ap3m2	982.397148	0.34397411	0.24886505	1.3821712	0.16691914	0.44143393
6330403K07F	112.932666	0.3439234	0.28653995	1.20026334	0.23003708	0.52127633
Erich6	2.96330522	0.34389022	0.34768826	0.98907631	0.32262581	NA
Ier3	327.751598	0.34387678	0.35400872	0.97137941	0.33135938	0.62452668
AW495222	8.30209267	0.343754	0.4281591	0.80286511	0.4220527	0.70127884
Pde3b	1041.81209	0.34350443	0.43227227	0.79464831	0.42681811	0.70402942
Kdm4d	7.83457443	0.34344411	0.42784415	0.8027318	0.42212977	0.70127884
BC051226	224.408461	0.34339426	0.29389067	1.16844219	0.24262844	0.53481431
Insrr	5.27333318	0.34312896	0.405419	0.84635638	0.39735396	NA
Scamp1	2074.53967	0.34310408	0.20462506	1.67674517	0.09359232	0.3186567
9230105E05F	3.01526619	0.343093	0.3457309	0.99237009	0.32101702	NA
Msantd1	17.4411771	0.34285089	0.42906734	0.7990608	0.42425516	0.70280233
Mpzl2	12976.0837	0.34283114	0.21676136	1.58160637	0.11373946	0.35754242
Gm13034	47.2151516	0.34267341	0.39594223	0.86546315	0.38678463	0.67567826
Wisp3	20.3049279	0.34263781	0.43225615	0.79267307	0.42796833	0.70472095
Calr	56589.9591	0.34246614	0.18809103	1.82074682	0.06864535	0.26645104
Irf9	1480.86941	0.34242756	0.22118264	1.54816657	0.1215822	0.3713128
Cox16	1257.22822	0.34236169	0.22098006	1.54928774	0.12131257	0.37070775
4930556M19	33.2019582	0.34231439	0.4222344	0.81072122	0.41752578	0.69868745
Evi2a	1.64618917	0.34217672	0.26895085	1.27226487	0.20327903	NA
Desi1	2575.44151	0.34186898	0.16924154	2.02000634	0.04338273	0.20081191
Cutc	363.670843	0.34150107	0.24532863	1.39201478	0.16391792	0.43656236
Slc25a29	41.169004	0.34124482	0.3617391	0.94334514	0.34550439	0.63779826
Thap7	738.805493	0.34081702	0.19954848	1.70794097	0.0876473	0.30830199
5730420D15I	2.68897442	0.34080126	0.36514886	0.93332143	0.35065403	NA
Tmco1	4953.43382	0.34079234	0.16337072	2.08600625	0.03697806	0.18247163
Cd14	30.8331341	0.34073399	0.43187125	0.78897124	0.43012882	0.70591345
Ptpmt1	1945.59214	0.34071902	0.24919313	1.36728899	0.17153474	0.4479452
Trim35	5711.66679	0.34048646	0.24800993	1.37287431	0.16979142	0.44511837
Prkab1	2786.18681	0.34028438	0.22114002	1.5387734	0.12385963	0.37568579
Nr2f2	38.1956428	0.34024599	0.42867108	0.79372276	0.42735685	0.70423083
Alk	12.2374882	0.34023555	0.41005745	0.82972653	0.40669342	0.69067264
Smpd2	1277.33769	0.34012745	0.17833137	1.90727772	0.05648463	0.23682732
Nme5	22.3988645	0.34005093	0.41778034	0.8139467	0.41567548	0.69777304
Gm17745	16.4484892	0.34001701	0.42994784	0.79083317	0.42904135	0.7048407
Hgfac	2.34120884	0.34001589	0.31015838	1.09626538	0.27296266	NA
Shc2	365.373949	0.33997236	0.27334973	1.2437267	0.21360017	0.5003308
Rab33b	619.096184	0.33988488	0.21875346	1.5537349	0.12024766	0.36901616
Col6a4	32.9577407	0.33978934	0.42019688	0.80864319	0.41872042	0.69948665
Ina	357.289556	0.33969974	0.3780086	0.89865612	0.36883586	0.65913197
Mex3b	1146.34917	0.33958047	0.25339288	1.34013423	0.18020171	0.4587945

0610040B10F	28.6870724	0.33922164	0.42150403	0.8047886	0.42094168	0.70091929
Il31ra	2.92928817	0.33913593	0.34701434	0.9772966	0.32842234	NA
Minpp1	3141.91558	0.3391311	0.18163267	1.86712607	0.06188399	0.2506793
Bola2	3340.10035	0.33901818	0.2337292	1.45047421	0.14692633	0.41138842
Eml3	1758.24198	0.33894037	0.20521114	1.65166656	0.09860254	0.32850211
Pnma3	32.5903518	0.33891276	0.41524023	0.81618479	0.41439445	0.69676294
Rpl29	8445.5845	0.33872862	0.2722855	1.24402005	0.21349218	0.50028431
Acrbp	1042.7227	0.33872489	0.24022928	1.41000665	0.15853772	0.4288771
Mus81	914.824131	0.33872464	0.20284559	1.6698644	0.09494619	0.32174946
BB019430	4.54944731	0.33871825	0.33923954	0.99846336	0.31805472	NA
4931408D14I	6.99491772	0.33864716	0.39865276	0.84947903	0.3956148	0.68266819
Map7	6799.9445	0.33854793	0.29785874	1.13660569	0.25570316	0.54856501
Dnajc15	2137.54491	0.33840869	0.21879273	1.54670904	0.12193342	0.37203601
Rogdi	2314.26196	0.33840245	0.18327082	1.84646109	0.06482528	0.25789153
Armc2	29.4820734	0.33812115	0.40392557	0.83708775	0.40254324	0.68709571
Cacna1g	19.9801911	0.33807273	0.43225067	0.78212193	0.43414292	0.70858066
Igf2bp2	11738.6207	0.33802823	0.18018519	1.87600456	0.06065465	0.24782988
Fam19a3	7.29956606	0.33783563	0.40665311	0.83077105	0.40610298	0.68991262
Dact2	2668.53424	0.33779075	0.19312615	1.74906784	0.08027929	0.29214885
Zscan4e	21.7022656	0.33778087	0.40567912	0.83263066	0.40505306	0.68916712
Trim11	2390.95878	0.33757514	0.20064408	1.68245751	0.09248016	0.31670534
1700019O17I	12.1487481	0.33756733	0.40822678	0.82691127	0.40828736	0.69198369
Pex19	5601.03279	0.33755569	0.15715513	2.14791395	0.03172059	0.16564369
Figla	2.0547056	0.33744393	0.32072522	1.05212784	0.2927409	NA
Oser1	533.956479	0.33739957	0.18456323	1.82809743	0.06753493	0.26381203
Adtrp	45.5290593	0.33735354	0.43048216	0.7836644	0.43323706	0.7083405
Col16a1	73.0793839	0.33696106	0.41506467	0.81182785	0.41689042	0.69852668
Pzp	424.207968	0.33679529	0.22513613	1.4959629	0.13466332	0.3921628
Carhsp1	2886.33506	0.33667085	0.15193062	2.21595126	0.02669484	0.14799696
0610043K17F	60.0819662	0.33660159	0.36159031	0.93089216	0.35190935	0.64414464
D030025P21I	22.482462	0.33654969	0.41799902	0.8051447	0.42073618	0.70091929
AU018091	13416.3719	0.33647451	0.17459636	1.92715652	0.05396013	0.2301623
Bbs7	764.126018	0.33641551	0.23008621	1.46212805	0.14370612	0.40532857
Sertad2	3658.4901	0.33627143	0.22007387	1.52799348	0.12651416	0.37981113
Ssr4	4225.13827	0.33625288	0.18264612	1.84100749	0.06562046	0.25939598
Mlec	36985.0438	0.33612494	0.17392579	1.93257673	0.05328836	0.22884208
Dynll1	12720.911	0.33609811	0.17949082	1.87250863	0.06113627	0.2490126
Akt1s1	3078.71862	0.33604004	0.21133394	1.5900903	0.11181445	0.35361429
Pgap2	2725.57442	0.33588208	0.22059525	1.52261703	0.12785455	0.38199155
Rab3b	412.18908	0.33582398	0.31081874	1.08044958	0.27994203	0.5723512
1700080O16I	81.209221	0.33555359	0.38356812	0.87482136	0.38167111	0.67065405

Hexim1	5739.12551	0.33525815	0.26148248	1.28214383	0.1997922	0.48279318
Mmp3	6.89409148	0.33522867	0.26466273	1.26662591	NA	NA
Zfa-ps	3.32931844	0.33517798	0.35934969	0.93273486	0.35095688	NA
Wfdc9	6.55737578	0.33515958	0.38789067	0.86405682	0.38755668	0.67657598
AW549542	37.1612651	0.33488739	0.3974691	0.8425495	0.39948044	0.68486983
Ppm1h	302.515693	0.33476064	0.36286626	0.92254552	0.3562441	0.64764054
5930430L01F	40.1359877	0.33467839	0.38601814	0.86700171	0.38594107	0.67503876
Rasd1	63.6181103	0.33444426	0.36606974	0.91360806	0.36092283	0.6518071
Toporsl	4.72991468	0.33436267	0.34189769	0.97796119	0.32809352	NA
Slc25a51	3241.2492	0.33426709	0.24175248	1.38268321	0.16676202	0.44135625
Blcap	1616.82774	0.3342666	0.19942488	1.67615299	0.09370823	0.31888596
Heph11	1.88885276	0.33422743	0.29663646	1.12672404	0.25985918	NA
Gm2762	4.8360308	0.33392348	0.39532704	0.84467655	0.39829146	NA
Elov15	9765.36973	0.33367603	0.24484393	1.36281114	0.17294204	0.45018776
St6gal2	2.0632456	0.33361998	0.32210502	1.03574907	0.30031922	NA
Fam209	3.16126546	0.33357527	0.32524243	1.02562038	0.30507055	NA
Ano4	3.55206206	0.33345821	0.36054566	0.92487095	0.35503304	NA
Morn5	2.09072095	0.33345554	0.32484693	1.02650049	0.30465573	NA
Entpd7	612.862605	0.33343111	0.24736521	1.34793048	0.17768074	0.45514757
Hcfc1r1	1844.2706	0.33321437	0.28463966	1.17065336	0.24173814	0.53421167
Trpm2	4.94821487	0.33306122	0.3903679	0.85319829	0.39354935	NA
Gkn1	1.50890545	0.33303377	0.26625427	1.25081101	0.21100344	NA
Rtl1	1.50890545	0.33303377	0.26625427	1.25081101	0.21100344	NA
Tmprss12	140.051181	0.33300147	0.37270355	0.89347546	0.37160261	0.66164325
Gm14023	17.0826866	0.33258433	0.4214697	0.78910615	0.43004997	0.70591084
Tcf15	1464.32929	0.33258092	0.36143762	0.92016132	0.35748846	0.64865412
Pgr15l	6.10367599	0.33245446	0.39912401	0.83296031	0.40486711	0.68915154
Tg	7.44132251	0.33239251	0.42461856	0.7828026	0.43374304	0.70858066
Dtymk	13063.2565	0.33231054	0.17961865	1.85008935	0.06430067	0.25672394
Rbm4	123.422438	0.33223612	0.28410569	1.16941028	0.24223837	0.53458396
Mrps26	2116.91746	0.33210953	0.17998633	1.84519306	0.06500946	0.25826729
Dlx4	12.8941874	0.33205659	0.43225993	0.76818732	0.44237591	0.7159317
4930550C14F	47.6144532	0.3320371	0.37049805	0.89619122	0.37015065	0.66041908
Csnk2b	6782.64761	0.3320198	0.19355859	1.7153452	0.08628196	0.30529481
Map1lc3b	6018.64702	0.33199296	0.24497671	1.35520216	0.17535316	0.45309298
Arpp19	8685.82903	0.33178753	0.15843114	2.09420657	0.03624158	0.18058504
Psmg2	3434.16709	0.33171339	0.20306108	1.63356457	0.10235031	0.33618991
Ptprk	4062.33953	0.33170726	0.18186277	1.82394266	0.06816074	0.26505819
Depdc7	1941.68493	0.33166151	0.16815721	1.97233003	0.04857194	0.21577978
Ric8	4000.12452	0.33165903	0.18032324	1.83924732	0.06587882	0.26008669
Dcakd	6910.63241	0.33153039	0.18901768	1.75396499	0.07943651	0.29073126

Alyref2	241.436397	0.33147601	0.25259059	1.31230543	0.1894171	0.47114928
Chp1	3614.28559	0.33128694	0.15221269	2.17647386	0.02951985	0.15748306
Hhex	737.75939	0.33126123	0.27043201	1.2249335	0.22060028	0.50895393
Masp2	382.8557	0.3311793	0.24640789	1.34402878	0.17893908	0.45698386
Parp3	251.72824	0.33117664	0.37149611	0.89146733	0.37267851	0.66269681
Fuca2	2549.13588	0.33116821	0.2225693	1.48793298	0.13676857	0.39489535
4930545H06l	1.71555369	0.33096627	0.29250251	1.1314989	0.25784517	NA
Rab26	318.340319	0.33051039	0.25348944	1.30384286	0.19228717	0.4751259
Clec3b	7.3819094	0.33050209	0.39014465	0.84712706	0.3969243	0.68311652
Elf4	2340.36575	0.33033734	0.2323608	1.42165692	0.15512587	0.4237087
Irak3	1694.85392	0.33033464	0.26931326	1.22658144	0.21997995	0.5086096
Lamtor4	1956.54022	0.33029452	0.23315736	1.4166163	0.15659514	0.4257362
Fbxo33	2684.56119	0.33028218	0.19540636	1.69023249	0.09098348	0.31400004
Gdpd4	1.70839795	0.33009931	0.29230955	1.12927992	0.25877977	NA
Fzd1	69.4560672	0.33003844	0.43055789	0.76653672	0.44335701	0.71677356
Pfn2	996.7897	0.33003233	0.28447446	1.16014752	0.24598875	0.53908837
Igdcc4	768.657503	0.32991309	0.30091534	1.09636512	0.27291902	0.56619046
Ankrd22	5.52225402	0.32990984	0.36446954	0.90517808	0.36537105	NA
Gfra2	20.5481175	0.32986544	0.42557135	0.77511195	0.43827351	0.71195982
Arl2bp	3594.13253	0.3298585	0.24391646	1.35234211	0.1762659	0.45380054
Akap7	1693.98256	0.32969806	0.258961	1.2731572	0.20296227	0.48733798
Bcr	2254.52108	0.32967435	0.20868409	1.57977708	0.11415793	0.35801802
Ubd	1288.29726	0.32952044	0.31773607	1.03708855	0.29969459	0.59454027
Frmd4b	3424.49818	0.32932671	0.26389934	1.24792548	0.21205835	0.49874764
Spaca7	7.34185193	0.32931516	0.40529405	0.81253391	0.41648533	0.69837863
Zbtb1	2491.35874	0.32921411	0.22291619	1.47685153	0.13971544	0.39961648
4930453H23l	3.92894912	0.3290619	0.28972485	1.13577383	0.25605123	NA
Cttn	12505.9297	0.32900107	0.15759845	2.0875908	0.03683476	0.18223429
Zscan22	1136.84176	0.3289298	0.18684361	1.76045516	0.07833066	0.28826774
Pbp2	4.78181583	0.32886082	0.39891401	0.82439025	0.40971786	NA
Neurl1a	1060.6143	0.32871523	0.261291	1.25804269	0.20837632	0.49427397
Tdrd9	123.490546	0.32869735	0.38128484	0.86207819	0.38864449	0.6776332
Map1a	1505.45783	0.32868149	0.32296991	1.01768455	0.30882789	0.60341532
Klhl42	1976.71793	0.32860851	0.24888514	1.32032193	0.18672756	0.46781595
Ppp1r3e	85.990787	0.32859474	0.42711649	0.76933284	0.44169575	0.71556426
Wdr72	2.82418619	0.32850442	0.3185025	1.03140297	0.30235189	NA
Gdpgp1	1021.96345	0.32846724	0.21760645	1.50945544	0.13118243	0.38740968
Fbxo32	43.0631535	0.32824443	0.40232905	0.81586061	0.41457986	0.69683651
Nt5dc3	3245.83022	0.32816607	0.2241317	1.46416624	0.14314853	0.40437835
Zbtb45	1591.89205	0.32795479	0.26469152	1.23900754	0.21534271	0.5026351
Cdh5	1.86914719	0.32777198	0.29466021	1.11237269	0.26597794	NA

Tbx15	495.05613	0.32765052	0.41385429	0.79170502	0.42853269	0.7047819
C130021I20R	7.58428249	0.32763769	0.40064075	0.81778423	0.4134804	0.69566523
Nck1	2282.36454	0.32757694	0.16640939	1.96850033	0.0490105	0.21670806
Lipo1	1043.23656	0.32740863	0.29427374	1.11259887	0.26588075	0.55798861
Ccdc73	374.308433	0.32739755	0.26521062	1.23448129	0.21702361	0.50454989
Al462493	1296.7965	0.32709396	0.23811044	1.37370691	0.16953269	0.44473733
Mageb3	5.57594435	0.3270838	0.3818496	0.85657756	0.39167839	NA
Hdac6	6684.30097	0.32706262	0.21571354	1.51618952	0.12947144	0.38455938
Nacc2	900.938702	0.32696617	0.30565176	1.06973429	0.28473893	0.57768754
Zfp142	2223.76499	0.32670186	0.25940929	1.25940693	0.20788339	0.49345463
Catsper2	216.153506	0.32659099	0.24146705	1.35252819	0.17620641	0.45380054
Top2b	6519.39556	0.32649234	0.25464939	1.28212496	0.19979881	0.48279318
Asxl3	53.5912526	0.32639209	0.41656308	0.78353581	0.43331253	0.7083405
Art4	7.5103253	0.32619427	0.39577136	0.82419877	0.40982662	0.69289126
Vmn1r14	2.00103683	0.32608662	0.29162116	1.11818571	0.26348769	NA
Fblim1	15638.3638	0.32596843	0.21376434	1.52489623	0.12728498	0.38116865
lpmk	9092.63013	0.32589783	0.21997231	1.48154026	0.13846267	0.39777094
Cdsn	100.804834	0.32587015	0.29685619	1.09773741	0.27231917	0.56570069
Fgfbp1	203.202377	0.32584304	0.41194606	0.79098471	0.42895291	0.7048133
Grid2ip	45.1497038	0.32563269	0.41989642	0.77550718	0.43804003	0.7119144
Yaf2	892.833837	0.32555885	0.29793578	1.09271487	0.27451901	0.56715903
lvns1abp	22009.1922	0.32555847	0.29024974	1.12164947	0.26201151	0.55435932
Lrrc42	4353.09535	0.32552413	0.21003422	1.5498623	0.12117457	0.37057733
4930407I10R	2.23285839	0.32536676	0.34964479	0.93056372	0.35207929	NA
Crlf1	70.0622053	0.3251733	0.42821443	0.75937024	0.44763111	0.72071395
Man1c1	604.12855	0.32505567	0.29900944	1.08710837	0.27698892	0.56941395
Vcp	22511.9247	0.32499325	0.14765858	2.2009777	0.0277376	0.15193025
Gm5039	108.193967	0.32482247	0.43111821	0.75344178	0.45118448	0.72303894
A930005H10	247.47607	0.32479551	0.29085988	1.11667346	0.26413397	0.55578402
Phox2a	134.755832	0.3247256	0.35429514	0.91653981	0.35938384	0.65018613
Krt33a	1.72270943	0.32470795	0.29011058	1.1192558	0.26303103	NA
Erich5	3.91939607	0.32467892	0.38810118	0.83658316	0.40282691	NA
Chrdl1	1.72094778	0.32450824	0.29006272	1.11875197	0.26324597	NA
Nfkbie	187.973185	0.3244335	0.25391435	1.27772809	0.20134532	0.48541272
Slc10a4	2.68072491	0.32436355	0.33563887	0.9664064	0.33384086	NA
Atp6v0a2	3179.6628	0.32433594	0.19100036	1.6980907	0.08949064	0.31119611
1110046J04R	6.09043318	0.32426595	0.40030382	0.81004961	0.41791166	0.69881121
Grhl2	666.57179	0.32418053	0.36547373	0.88701459	0.37507105	0.66485009
Amh	26.8735227	0.32412842	0.41302841	0.7847606	0.43259395	0.70789874
Ankrd33b	440.27013	0.32412737	0.3699816	0.87606349	0.38099552	0.66993005
Nfyc	2598.32281	0.32394214	0.20707275	1.56438805	0.11772646	0.3642587

Wiz	4259.99879	0.32381739	0.25044441	1.2929711	0.19602106	0.47907016
Abhd4	4744.76599	0.32375531	0.15719452	2.05958397	0.03943833	0.18970166
Btbd9	1359.07602	0.32339606	0.21539344	1.50142022	0.13324691	0.39030376
Sult2a3	4.59712058	0.32334721	0.33215527	0.97348209	0.33031376	NA
Zfp672	215.661101	0.32305768	0.28931345	1.11663553	0.26415019	0.55578402
2610035F20F	26.1777108	0.32301885	0.42950967	0.7520642	0.45201245	0.72396798
Folh1	34.1689816	0.32298936	0.42833605	0.75405598	0.45081561	0.7229937
Slc44a4	637.34268	0.32286462	0.22209928	1.45369506	0.14603087	0.40984047
Aig1	353.483454	0.32269729	0.29698138	1.086591	0.2772176	0.56955371
Xkr7	3.52239675	0.32267653	0.38153484	0.84573282	0.39770181	NA
Lymr2	1080.47821	0.32266268	0.23698703	1.36152043	0.17334928	0.45071973
1700016H13I	12.1128374	0.32265361	0.4317732	0.74727569	0.45489716	0.72540051
Ehd1	10351.0809	0.32255745	0.20882746	1.54461225	0.12244008	0.37298055
1500004A13F	2.47554782	0.32212413	0.33333021	0.96638145	0.33385334	NA
Toe1	3234.43159	0.32199578	0.18472583	1.74310106	0.08131596	0.29469694
Lrrc16b	57.5331444	0.32184769	0.37406295	0.8604105	0.3895628	0.67794934
Tmem127	2830.35844	0.32173405	0.19417168	1.65695666	0.09752824	0.32644461
Vgll1	2.76286932	0.32161592	0.3003754	1.07071323	0.28429839	NA
Orai1	799.504302	0.32161453	0.20714898	1.55257598	0.12052447	0.36940975
Yipf1	2050.45801	0.32160734	0.22171885	1.45051873	0.14691392	0.41138842
AF251705	4.64534751	0.32146015	0.36341926	0.88454352	0.37640288	NA
Sparcl1	47.5024446	0.3213651	0.41012487	0.78357867	0.43328738	0.7083405
Ccpg1	5597.40478	0.3213292	0.26618498	1.20716504	0.22736859	0.51753644
Hes1	4032.89166	0.32120586	0.22568671	1.42323782	0.15466723	0.42315799
Ddx43	1008.90546	0.32082584	0.18419109	1.7418098	0.08154173	0.29523992
Mir541	1.57165459	0.32080927	0.26203431	1.22430257	0.22083811	NA
Osbp17	2885.2372	0.32070668	0.21418959	1.4973028	0.13431449	0.39168943
Aldh1l2	496.626452	0.32066713	0.27496098	1.1662278	0.24352236	0.53577799
Trim36	201.052658	0.32061929	0.40832327	0.78520946	0.43233077	0.70770271
Cpm	33.7266726	0.3205569	0.39409867	0.81339248	0.41599307	0.69808009
Lum	3.73103671	0.32054733	0.33977606	0.94340761	0.34547245	NA
Mdh2	21820.9291	0.32030381	0.18354851	1.74506353	0.08097381	0.29414243
Med7	3943.61544	0.32030092	0.19342223	1.65596747	0.09772841	0.3266927
Galnt13	7.88823953	0.3202749	0.40038305	0.79992124	0.42375643	0.70246629
Slc41a1	4543.43515	0.32012884	0.21476269	1.49061664	0.13606217	0.39391677
Dcaf6	2624.70037	0.32012855	0.19818128	1.61533196	0.10623883	0.34347609
H2-M10.4	8.81863663	0.32006402	0.36210139	0.88390718	0.37674632	0.66660394
Ptplad2	65.2603664	0.32005224	0.38282161	0.83603494	0.40313525	0.68755826
Avpr2	2.34772186	0.32003825	0.308788	1.03643356	0.29999992	NA
9930104L06F	1336.35577	0.31990767	0.18107348	1.76672846	0.07727371	0.28561324
2610002J02R	901.577218	0.31986894	0.21394747	1.49508169	0.13489312	0.39242882

Shroom4	179.433077	0.31959471	0.4001891	0.79860925	0.42451702	0.70293777
Slc4a2	1284.33888	0.31937873	0.26259577	1.21623715	0.2238946	0.51323805
Rhox2e	1.67614255	0.3191065	0.28883784	1.10479464	0.26924858	NA
Ctsl	21360.8402	0.3190495	0.22230209	1.4352069	0.15122815	0.41838967
Gfra3	35.9417797	0.31900802	0.4053465	0.7870008	0.4312814	0.70688509
Utf1	2522.1499	0.31897855	0.33834275	0.94276751	0.34579983	0.63790477
Dok4	162.861871	0.31894841	0.27877553	1.14410473	0.25258021	0.54598821
Purg	431.886165	0.31876904	0.25216305	1.2641386	0.20618028	0.49102568
H2-T22	5.16357933	0.31876871	0.37085453	0.85955187	0.39003612	NA
Trpv1	12.8312026	0.31870513	0.42432986	0.75107874	0.45260527	0.72421877
Hoxd1	27.9350681	0.31868984	0.42742703	0.74560057	0.45590874	0.72630896
Mycbp2	3752.96124	0.31865144	0.28147341	1.13208362	0.25759928	0.55011348
Fbln7	51.4889839	0.31863552	0.36965312	0.8619852	0.38869566	0.67764644
Lepr	85.7709623	0.31805675	0.41677182	0.76314362	0.44537775	0.71865423
Pi16	9.4683712	0.31804391	0.43121856	0.73754689	0.46078984	0.73116428
Cyp4f17	477.666517	0.3180073	0.2407548	1.32087627	0.18654262	0.46766473
Tpbg	1593.16145	0.31799411	0.25732181	1.23578372	0.21653897	0.50379974
Ppap2b	3114.50029	0.31793708	0.22504264	1.41278594	0.15771867	0.42767192
Scgb1c1	18.8576551	0.31790541	0.43199112	0.73590728	0.46178713	0.73195919
Slc2a13	2.33588842	0.31790172	0.33403932	0.95168952	0.34125446	NA
Asphd1	4.0676435	0.31772239	0.36404772	0.8727493	0.38279974	NA
Ahcyl2	3680.40641	0.31748666	0.24378117	1.30234282	0.19279922	0.47556451
BC031181	3241.10593	0.31746617	0.18458009	1.71993723	0.08544385	0.30334471
Nkg7	6.4463748	0.31736593	0.36589296	0.86737371	0.38573728	0.67491005
Tusc2	1598.85615	0.31732223	0.18117642	1.75145441	0.07986767	0.29155449
Cxcr5	2.01529446	0.317317	0.31419982	1.00992101	0.31253313	NA
Prmt6	2188.00915	0.31731262	0.17943344	1.76841406	0.07699171	0.28493528
Ammecr1l	3059.69934	0.31730872	0.20735612	1.53025972	0.12595245	0.37885621
Max	5680.26476	0.31729985	0.15645785	2.02802125	0.04255808	0.19862566
Chuk	7406.05109	0.31719357	0.1784094	1.77789721	0.07542074	0.28085917
Ccdc114	367.075357	0.31715459	0.2477993	1.27988496	0.2005856	0.48436526
Cep76	2936.89071	0.31707499	0.24161632	1.31230783	0.18941629	0.47114928
Rorb	1.42358269	0.31697677	0.26099288	1.2145035	0.22455551	NA
Atp13a2	2337.64439	0.31691344	0.19747	1.60486881	0.10852268	0.34810219
Fam222b	2025.33172	0.31661083	0.2611356	1.21243838	0.22534462	0.5148133
Zfp398	439.790086	0.31655312	0.22746921	1.39163059	0.16403429	0.43679747
H1foo	2.82388246	0.31653069	0.34560218	0.91588162	0.35972899	NA
Cabp5	1.8960085	0.31649269	0.2900989	1.09098205	0.27528078	NA
Gramd1b	1752.74828	0.31646362	0.21401125	1.47872424	0.13921403	0.39898957
Atl1	272.252717	0.31615087	0.27121656	1.16567687	0.24374512	0.53593585
Rarb	46.0636272	0.31603949	0.42231144	0.74835644	0.45424519	0.72512943

Ltf	1.89232222	0.31587783	0.31853289	0.99166472	0.32136111	NA
Tuba4a	11371.3496	0.31575749	0.21764231	1.45080933	0.14683296	0.4113492
Cdpf1	869.716551	0.31554098	0.23264723	1.35630659	0.17500164	0.45297112
Emid1	113.663577	0.31553765	0.34997955	0.90158881	0.36727534	0.65733265
Wispl	19.0854169	0.31542532	0.40444533	0.77989607	NA	NA
Epb4.1l3	1024.90635	0.31531739	0.32625647	0.96647092	0.33380859	0.62713382
Gulp1	432.238945	0.31525489	0.36360933	0.86701539	0.38593358	0.67503876
Paf1	4790.8345	0.31515457	0.16819063	1.87379387	0.06095884	0.24855888
Tshr	3.33372112	0.31484961	0.35074372	0.89766286	0.36936532	NA
Vkorc1	1173.9644	0.31467558	0.20287231	1.55110168	0.12087732	0.36988649
1700008O03l	190.849137	0.31459606	0.25306276	1.24315429	0.21381098	0.50074919
Slc15a2	322.845684	0.31457346	0.32903528	0.95604781	0.33904808	0.63270101
Ano6	3416.07179	0.31432957	0.24868656	1.26395884	0.2062448	0.49102568
Mrps25	3117.12336	0.31405212	0.18410342	1.70584615	0.08803673	0.30890324
Amfr	2557.48395	0.3140309	0.24723677	1.27016258	0.20402672	0.48902891
Airn	9.35431703	0.3139747	0.42738545	0.7346406	0.4625584	0.73263219
Cdhr2	39.4103867	0.31362285	0.40233136	0.77951381	0.4356771	0.70987111
Igflr1	131.089044	0.31356894	0.27026524	1.16022667	0.24595653	0.53908837
Gm6225	7.37470497	0.31355442	0.40812662	0.76827731	0.44232245	0.7159317
Ebp	4428.89289	0.31325706	0.22367673	1.40049017	0.16136658	0.43228454
H2-D1	464.87193	0.31321889	0.28219066	1.10995486	0.26701848	0.55962323
Fcrls	1.72332346	0.31318367	0.28936902	1.08229855	0.27911989	NA
Car4	6.12061662	0.31315232	0.37285513	0.83987666	0.40097755	0.68628679
Agbl3	49.9115971	0.31308816	0.38971144	0.80338457	0.42175249	0.70123736
Mettl21a	863.057017	0.31291627	0.18580912	1.6840738	0.09216741	0.3161216
Al182371	21.911364	0.31286614	0.40894537	0.76505609	0.44423814	0.71760126
Ankrd9	812.915945	0.31284904	0.19924902	1.57014093	0.11638233	0.3623426
Fbn2	65.3912853	0.31278992	0.39517831	0.79151591	0.428643	0.7047819
Ap4m1	1970.02188	0.31264756	0.19418007	1.61009093	0.10737801	0.34592519
Aph	1.49635562	0.3125862	0.25932555	1.2053814	0.2280561	NA
Ptgs1	77.998352	0.31251412	0.34080959	0.91697572	NA	NA
Serpinb10	2.15196415	0.31243982	0.30443679	1.02628801	0.30475585	NA
Ceacam16	53.9873928	0.31237994	0.41642162	0.75015302	0.45316255	0.72431158
Grcc10	3095.01718	0.31231396	0.24998743	1.24931865	0.21154855	0.49812885
Gm3139	2.74468876	0.31231311	0.292419	1.06803289	0.28550567	NA
Ccdc134	763.005855	0.31224836	0.21977891	1.42073853	0.15539279	0.4238164
Pf4	9.30266298	0.3121469	0.41834652	0.74614437	0.45558021	0.72604303
3830406C13F	671.138003	0.31203176	0.1884035	1.65618877	0.0976836	0.3266927
BC022687	380.471228	0.31171716	0.25178477	1.23803025	0.21570485	0.5027617
Reg4	2.08895929	0.31168372	0.31653672	0.98466844	0.32478696	NA
2700094K13F	14319.9443	0.31167292	0.2044357	1.52455233	0.1273708	0.38135218

Mst1	921.344216	0.31163332	0.26504461	1.17577686	0.23968405	0.53163981
Ppcs	1958.33975	0.31156281	0.22217105	1.40235556	0.1608091	0.43208565
A930017M01	5.77275446	0.31153932	0.3492765	0.89195614	0.37241644	NA
F12	6.7910829	0.31144639	0.4203057	0.74099968	0.45869364	0.72921128
Tssk4	3.03859097	0.31105117	0.34670364	0.89716732	0.36962964	NA
Wbp5	9668.25126	0.31104849	0.16914819	1.83891109	0.06592826	0.26019024
Dennd2a	2715.97646	0.31053766	0.19716194	1.57503851	0.11524755	0.3601547
Zfp423	167.289149	0.3105308	0.40995866	0.75746856	0.4487692	0.72156136
Aak1	3583.17227	0.31049562	0.25670683	1.20953391	0.22645779	0.51667329
Mycbp	2147.21225	0.31045812	0.21112192	1.47051575	0.14142212	0.40183728
Dpf1	721.477689	0.31041597	0.28704715	1.0814111	0.27951429	0.57200243
Atg3	2352.98619	0.31038406	0.17841491	1.73967557	0.081916	0.29593522
C1ql2	22.7716759	0.31036204	0.41835289	0.74186661	0.45816816	0.72882294
Gm11190	15.0094299	0.31028179	0.42466118	0.73065728	0.46498851	0.73410475
Scn4b	30.3330946	0.3101164	0.38662831	0.80210473	0.42249238	0.70164235
2410017117R	94.1070025	0.30993809	0.36356058	0.85250741	0.39393253	0.68150459
Cs	27919.4629	0.30985947	0.18357403	1.68792645	0.09142535	0.31492289
Cxx1a	32.5194623	0.30976446	0.39514175	0.78393249	0.43307972	0.70818326
Gm16039	259.700589	0.3097546	0.22590351	1.37118101	0.17031854	0.44582117
Fsbp	157.423587	0.30968803	0.27510092	1.12572519	0.26028186	0.5523497
Gpr116	63.7680309	0.30968208	0.40531951	0.76404435	0.44484082	0.71820292
Gm15133	14.223975	0.30947238	0.36915954	0.83831609	0.4018532	0.68675204
Wdr35	4966.27227	0.30943972	0.21354069	1.4490902	0.14731239	0.41202429
Neb	398.208013	0.30943436	0.37084901	0.83439447	0.40405873	0.68846147
Tbr1	3.90508459	0.3094091	0.38298325	0.80789199	0.41915276	NA
Fam43a	1659.76647	0.30936947	0.1902742	1.62591391	0.10396797	0.33930559
Prkd1	244.686315	0.30933693	0.40374102	0.76617664	0.44357121	0.71689626
Ccdc97	2177.8764	0.3092763	0.20974591	1.47452841	0.14033938	0.4004436
Mir3091	16.1245777	0.30926594	0.42617735	0.72567429	0.46803847	0.7360836
Fam65b	5.83801407	0.30925449	0.38070216	0.81232661	0.41660425	NA
BC033916	1074.80411	0.30912639	0.18956495	1.63071488	0.1029505	0.33719106
Chchd7	1132.9657	0.30909675	0.22992261	1.34435123	0.17883484	0.45692097
Fam219b	1795.23035	0.30898483	0.1908309	1.61915513	0.10541389	0.34181621
Smyd2	3453.70051	0.30889534	0.25348259	1.21860574	0.22299387	0.51207347
Irs1	83.5287446	0.30883457	0.36842378	0.83825903	0.40188524	0.68675204
D14Ertd670e	7.05092553	0.30875928	0.39249323	0.78666143	0.43148009	0.70688509
D130020L05F	148.303131	0.30875201	0.30607468	1.00874732	0.31309583	0.60778346
Gimap9	287.013858	0.30867685	0.22695195	1.36009778	0.17379898	0.45100512
Dio3os	32.1905577	0.30862877	0.4069278	0.7584362	0.44818989	0.72108696
Slx1b	1487.54087	0.30860757	0.20613219	1.49713424	0.13435833	0.39168943
Il27ra	126.477424	0.30833923	0.38792498	0.79484241	0.42670518	0.70402942

Pam	970.816473	0.30811233	0.29687185	1.03786309	0.2993338	0.59404542
Yipf3	1769.8626	0.30788964	0.20113418	1.53076734	0.1258269	0.37885621
Apbb3	791.521001	0.30765535	0.18923137	1.62581583	0.10398884	0.33930559
Zscan29	989.987454	0.30750834	0.20426231	1.50545806	0.13220635	0.38856271
Zc3h12d	2.1859812	0.3073423	0.30162325	1.01896089	0.30822153	NA
Mios	2086.77975	0.30719156	0.2438655	1.25967618	0.2077862	0.49332568
Gng10	1564.55334	0.30709988	0.2933071	1.04702505	0.29508803	0.58975889
Art5	139.683509	0.30699207	0.36501231	0.8410458	0.40032227	0.68539722
Rai1	1322.98331	0.30691119	0.26763388	1.1467576	0.25148182	0.5450894
H19	220.926065	0.30683045	0.40171115	0.76380865	0.44498128	0.71835398
Tbata	7.9669956	0.30678513	0.35929087	0.85386286	0.39318098	0.6808762
Dvl3	1817.11538	0.30676996	0.25460304	1.20489512	0.22824379	0.51887234
Ifi27	228.526206	0.30673181	0.40050196	0.76586843	0.44375459	0.71711081
Tom6	7786.37111	0.3066442	0.23114178	1.32664983	0.18462455	0.46455672
1600023N17I	14.5047126	0.30603054	0.4319675	0.70845733	0.4786613	0.74302874
Prcp	3023.02959	0.30601538	0.19751006	1.54936607	0.12129374	0.37070775
1700102H20I	33.7940522	0.30594891	0.38067359	0.80370407	0.4215679	0.70108061
Cpne4	4.28586216	0.30594787	0.27887357	1.09708451	NA	NA
Gm12505	3.38304107	0.3059396	0.3457751	0.8847936	0.37626796	NA
Dcaf7	8117.50723	0.30588848	0.20470004	1.49432547	0.13509057	0.3925983
Pip4k2c	7362.74049	0.30577301	0.15995499	1.91161906	0.05592507	0.2354971
Tmod3	6973.71844	0.3056656	0.24024499	1.27230792	0.20326374	0.48772633
Phkg2	2063.59745	0.30565675	0.20706252	1.47615682	0.1399018	0.39979382
Vegfc	930.032692	0.30565419	0.33264676	0.91885513	0.35817135	0.64926373
Heatr9	2.79162706	0.30537656	0.34225868	0.89223905	0.37226482	NA
Hmox2	3366.23809	0.3051345	0.19295481	1.58137811	0.11379161	0.35761218
Ap5s1	421.60918	0.30505448	0.23273752	1.31072325	0.18995128	0.47164815
Sertm1	63.3905718	0.3048195	0.41517581	0.73419379	0.46283064	0.73275933
Pdcd6ip	8516.66441	0.30474691	0.20690937	1.47285216	0.1407909	0.401182
Cyth2	3791.73484	0.30464332	0.18181149	1.67559995	0.09381658	0.3190125
Fev	2.14480841	0.30458367	0.30148697	1.01027141	0.31236527	NA
Sri	1390.79116	0.30458293	0.17389239	1.75155992	0.07984951	0.29155449
Ubqln2	4058.0015	0.30451212	0.25249628	1.20600639	0.22781503	0.51824919
Bcl3	2654.05235	0.3043746	0.18999302	1.60203046	0.10914887	0.34910823
Prss12	5.83733295	0.30431903	0.40320046	0.75475863	0.45039382	NA
Pkdcc	66.7278896	0.30426648	0.4251114	0.71573353	0.47415591	0.7401725
Slc6a8	11431.4771	0.30423597	0.18438236	1.65002757	0.0989373	0.32903197
Gm16596	2.38483098	0.30418462	0.33028283	0.92098223	0.3570597	NA
Tspyl2	2994.45889	0.30398952	0.16481192	1.84446318	0.06511567	0.2584176
Prl8a9	1.76989034	0.30398631	0.28503513	1.06648718	0.28620347	NA
Trmu	359.100495	0.30395063	0.21421615	1.41889692	0.15592907	0.42459341

Mgst2	4.88460921	0.303729	0.37547508	0.80891919	0.41856163	NA
Adra2c	13.7538642	0.3036485	0.42132964	0.72069106	0.47109962	0.73829186
lpo4	5756.97728	0.30362637	0.23581645	1.28755382	0.19790132	0.48094783
Sall2	775.79473	0.30361628	0.24455791	1.24149034	0.21442466	0.50150668
Bach2os	1.66898681	0.30360767	0.28308928	1.07248028	0.28350437	NA
Gpr150	3.99473635	0.30357889	0.34935641	0.86896615	0.38486564	NA
Kbtbd4	1616.34425	0.30346938	0.17336075	1.75050802	0.08003069	0.29191981
Lama5	16700.3172	0.30342816	0.24181605	1.25478917	0.20955531	0.49577373
Trappc5	1502.77078	0.30339091	0.16767511	1.80939745	0.07038928	0.27007739
Rnf103	496.037684	0.30336757	0.276838	1.09583069	0.27315287	0.56626801
Gng13	72.9653589	0.3032243	0.4145843	0.73139359	0.46453878	0.73397175
Gm10941	5.63322046	0.30315441	0.37904934	0.7997756	0.42384082	NA
Jph3	83.5620184	0.30314184	0.31734969	0.95522966	0.33946157	0.63296965
Armc5	811.008385	0.30306594	0.2558687	1.18445881	0.23623149	0.52810283
Rwdd2b	883.773335	0.30300593	0.18951887	1.59881665	0.10986135	0.35030265
Agtrap	8019.12336	0.30299626	0.19245733	1.57435549	0.11540529	0.3603537
Cd300lf	28.2165754	0.30293408	0.4241176	0.71426905	0.47506083	0.7406365
Pnma2	1299.85021	0.30282848	0.31116807	0.9731991	0.33045436	0.62369343
Peli2	1374.32683	0.30268744	0.289346	1.04610894	0.29551074	0.59015984
Dcaf12	8293.01002	0.30236912	0.19891056	1.52012602	0.12847931	0.3826818
Figl12	147.041461	0.30224479	0.41677272	0.7252029	0.46832756	0.73621136
Tex19.1	5824.93884	0.30219208	0.19095039	1.58256859	0.11351983	0.35708809
Mfap5	105.972344	0.30209225	0.39751816	0.75994578	0.447287	0.72045935
Slc27a4	2441.7742	0.30180858	0.17818825	1.69376257	0.09031041	0.31312835
Abcg2	3529.14223	0.30171439	0.2085484	1.44673559	0.14797099	0.41286456
Hpx	7.72962045	0.30162192	0.42549985	0.70886492	0.4784083	0.74302874
Zfand4	296.803442	0.30155837	0.24192127	1.24651452	0.21257556	0.49920909
Tmem135	3260.77849	0.30113313	0.20425066	1.47433125	0.14039242	0.40052148
Hsd3b2	2.24716987	0.30111539	0.3391818	0.88776989	0.37466454	NA
6430531B16f	30.5210635	0.30100059	0.39054948	0.77071051	0.44087854	0.71492202
Adck5	1711.76285	0.30085875	0.20870808	1.44152901	0.14943529	0.41505058
Rbbp4	49198.8903	0.30067659	0.18070416	1.66391624	0.09612917	0.32399322
Gm6537	2.4217257	0.30063681	0.33363296	0.90110045	0.36753492	NA
Os9	2559.27106	0.30054652	0.18649245	1.61157472	0.10705452	0.34516082
Larp1b	1274.15512	0.30051868	0.31144712	0.96491075	0.33458951	0.62764795
Lyst	877.53551	0.3004855	0.29846729	1.0067619	0.31404921	0.60841899
Xdh	2.60500066	0.30042689	0.2955745	1.01641682	0.30943094	NA
Tex38	3.79906485	0.30014761	0.38491919	0.77976786	0.43552753	NA
Ccdc150	25.1752376	0.29996694	0.43217098	0.6940932	0.48762376	0.74901592
Gpr173	33.6922887	0.2998612	0.3929467	0.7631091	0.44539833	0.71865423
Defb30	14.5341427	0.29967749	0.43079178	0.69564348	0.48665213	0.74804065

Tmem252	4.43554296	0.29966968	0.37160178	0.80642692	0.41999673	NA
H1f0	3582.43097	0.29960832	0.28051952	1.068048	0.28549886	0.57847462
Lyg1	4.74800592	0.2991279	0.368761	0.8111701	0.41726799	NA
Icam5	83.2969548	0.2990151	0.34894047	0.85692295	0.39148747	0.67959748
Dgkz	3216.29489	0.29890201	0.16716052	1.78811368	0.07375767	0.2772625
Pycard	4256.92209	0.29859724	0.22622289	1.31992497	0.18686007	0.46785718
Rbm38	4193.57379	0.29858128	0.20826624	1.43365184	0.15167164	0.41871751
Arhgap17	5098.88075	0.2985382	0.23104729	1.29210865	0.19631952	0.47933634
Ripk4	790.829522	0.29851277	0.37084955	0.80494305	0.42085255	0.70091929
Wdr47	1339.95087	0.29849948	0.22062119	1.35299548	0.17605707	0.45375831
6720416L17F	9.96487718	0.29831414	0.38822276	0.76840971	0.44224381	0.7159317
Kctd12	355.559804	0.29830063	0.36432325	0.81878013	0.41291187	0.69515344
Scly	938.239149	0.29820634	0.23234633	1.28345624	0.19933228	0.48250548
Cdk3-ps	75.0864992	0.29816141	0.36317678	0.82098147	0.41165682	0.69424957
Arhgap24	2.59278983	0.2980896	0.31925611	0.93370052	0.35045839	NA
Sfxn2	1915.66967	0.2980252	0.24642396	1.20940022	0.22650913	0.5167146
Phospho2	1599.30569	0.29778772	0.18230721	1.63343906	0.10237669	0.33618991
Arxes1	531.654183	0.29768943	0.30489989	0.97635137	0.32889037	0.62222868
Traf4	4851.28849	0.29768014	0.22054363	1.34975625	0.17709418	0.45462566
Dck	5706.64964	0.29755174	0.19825633	1.50084358	0.13339602	0.39037289
Dusp9	3872.83689	0.29744208	0.43227076	0.68809207	0.4913948	0.75186608
4933433G19I	9.81941062	0.29740786	0.37970796	0.78325421	0.43347785	0.7084618
Ppp2r5b	1088.61748	0.29724121	0.19689149	1.50967019	0.1311276	0.38737943
4931423N10I	4.48533303	0.2971382	0.37847616	0.78509094	0.43240025	NA
Magea10	20.3428447	0.29710689	0.41701525	0.71246049	0.47617967	0.74147092
Snord55	22.5947635	0.29694461	0.41465022	0.71613277	0.47390937	0.74015587
Tnrc18	5341.59721	0.29682892	0.20240728	1.46649331	0.14251394	0.40361215
Vtn	3.33637183	0.2966781	0.32543594	0.91163285	0.36196202	NA
Phlda2	853.811967	0.29660852	0.38551668	0.76937921	0.44166823	0.71556426
Pcdhgb6	19.1486883	0.29658602	0.42838101	0.69234166	0.4887228	0.74966741
Xpr1	2526.06308	0.29652736	0.26407253	1.12290122	0.26147945	0.55368559
Atp6v1d	8569.05466	0.29652052	0.18507247	1.60218606	0.10911447	0.34910823
Bre	3147.25894	0.29642335	0.22380032	1.32449924	0.18533729	0.46595793
Sun3	7.18629833	0.29641695	0.42485624	0.69768764	0.48537256	0.74773497
Nat6	1539.24834	0.29640814	0.22116568	1.34020858	0.18017754	0.4587945
Kcnk13	2.39937911	0.29638496	0.33332323	0.88918182	0.37390537	NA
Fam118b	2151.48595	0.29632882	0.1782741	1.66220901	0.09647087	0.32444173
Col17a1	192.048187	0.29592433	0.36508388	0.81056533	0.41761534	0.69868745
BC024978	1052.98867	0.29590072	0.1804779	1.63953991	0.10110087	0.33352133
Arap1	3530.94811	0.2956419	0.21568063	1.37073925	0.17045625	0.4460315
D2hgdh	572.283346	0.29563397	0.23378799	1.26453872	0.20603673	0.49097098

Grk4	24.0783367	0.29556743	0.40247566	0.73437344	0.46272117	0.73275933
Fam208b	3416.47003	0.29554072	0.27521161	1.07386722	0.2828822	0.57527148
Nccrp1	89.3031578	0.29550001	0.35584884	0.83040881	0.40630769	0.69009293
Thbs3	251.103314	0.29520595	0.27043059	1.09161449	0.27500259	0.5675013
Acmsd	21.0402937	0.29518495	0.43216396	0.68303926	0.49458203	0.75456149
Nme9	1.69106806	0.29501	0.28294799	1.04262978	0.29711979	NA
AA467197	47.6397512	0.29499847	0.42723996	0.6904749	0.48989559	0.75093147
Wars	6938.76119	0.29499843	0.19352667	1.52432958	0.1274264	0.38144523
Bcat1	71389.2077	0.29498098	0.18076105	1.63188354	0.10270402	0.33688045
5031425E22F	149.287268	0.29487938	0.30656499	0.96188213	0.33610881	0.62875354
Pcyt1a	2628.92339	0.29485295	0.16216226	1.81825883	0.06902458	0.26716458
Cuedc1	960.310279	0.29484924	0.24804163	1.18870866	0.23455433	0.5263048
Odf3	10.7923011	0.29484038	0.42737821	0.68988164	0.49026862	0.75122351
Pdlim7	891.193541	0.29466998	0.22977249	1.28244241	0.1996875	0.48279318
Traf3	1573.42863	0.29447397	0.2104942	1.39896474	0.16182356	0.43291212
Gm13446	7.31565173	0.29442084	0.3936041	0.74801263	0.45445254	0.72518943
C4bp-ps1	1.78420183	0.29440573	0.2810537	1.04750705	0.29486578	NA
Neurog2	1.78420183	0.29440573	0.2810537	1.04750705	0.29486578	NA
Hsd12	1768.44128	0.2943345	0.19540468	1.50628172	0.13199487	0.38846559
Smad7	4462.90723	0.29420243	0.18445765	1.59495921	0.11072136	0.35175236
Uvssa	470.476846	0.29417355	0.21707434	1.35517421	0.17536206	0.45309298
Plcb2	3.57508672	0.2941283	0.36939594	0.7962413	0.42589179	NA
Syt13	25.9672858	0.29411199	0.39838791	0.73825531	0.46035932	0.73086774
Alpk3	3320.34722	0.29410786	0.28418426	1.0349196	0.30070646	0.59554751
Tmem215	3.16242034	0.29396838	0.34943308	0.84127234	0.40019538	NA
Chd3	2073.61188	0.29385174	0.30186527	0.97345327	0.33032807	0.62369343
Klhl35	1.53885882	0.29374661	0.28214846	1.04110656	0.2978261	NA
Morc2b	8.33394912	0.29368954	0.41412745	0.70917669	0.47821484	0.74289758
Hs6st1	7936.90209	0.29350206	0.19807046	1.48180633	0.13839183	0.39777094
Nmbr	2.44380695	0.29318018	0.33334558	0.87950823	0.37912578	NA
Irs3	28.0606137	0.29312128	0.40712563	0.71997747	0.47153887	0.73859646
Zfp532	2627.39967	0.29301834	0.26852066	1.09123202	0.2751708	0.5675013
Dxo	1280.17095	0.29286159	0.20526454	1.42675199	0.15365139	0.42148552
Elmo3	557.006252	0.29279504	0.36956871	0.79226146	0.42820824	0.70473768
Tmem128	1953.28962	0.29277601	0.19216344	1.52357809	0.12761414	0.38168394
Epb4.1l5	2241.39419	0.29254829	0.21253199	1.37649062	0.16866979	0.44348648
Mmd2	41.8775095	0.29247363	0.39241355	0.7453199	0.45607836	0.72646466
Heca	1482.37135	0.29194874	0.27497059	1.06174533	0.28835131	0.5819794
Zbtb4	373.109657	0.29190152	0.28960847	1.00791777	0.31349394	0.60787966
Nudt22	782.258677	0.29182491	0.26158547	1.11560059	0.26459314	0.55625052
Adam10	7480.39132	0.29181154	0.22594168	1.29153479	0.1965183	0.47960704

Rab40c	2135.01568	0.29168331	0.1709443	1.70630611	0.0879511	0.30877503
Ulk3	531.86116	0.29163921	0.21100142	1.38216704	0.16692042	0.44143393
Fam101b	248.960886	0.29162563	0.32219649	0.90511736	0.36540322	0.65548338
Hagl	710.5976	0.29159929	0.26389406	1.10498619	0.26916557	0.56217537
Scnn1b	7.12939743	0.29157013	0.38908116	0.74938127	0.45362744	0.72463799
Arhgef26	831.790078	0.29123367	0.4232669	0.68806152	0.49141404	0.75186608
Trim8	6030.62528	0.2912105	0.22133145	1.31572127	0.18826761	0.46953088
Nrk	77.5441527	0.29120968	0.40473441	0.71950809	0.47182792	0.73859646
Cxx1b	95.4864886	0.29116928	0.32019532	0.90934895	0.36316596	0.65358105
Syt9	3312.15883	0.29113237	0.17023677	1.71016146	0.08723602	0.30727233
Nfkb1	1426.844	0.29103348	0.25673386	1.13359988	0.25696242	0.54996022
Loxl1	69.4335592	0.29092335	0.41215831	0.70585342	0.4802793	0.74407463
Ccdc23	1277.442	0.29090304	0.21284222	1.36675442	0.1717023	0.4479452
Rasgrf1	1.85830516	0.29064796	0.30929988	0.93969632	0.34737335	NA
Nppa	1.23973209	0.29051256	0.2519478	1.15306647	0.2488831	NA
Srsf12	158.811024	0.29047846	0.35663961	0.81448739	0.4153658	0.69773996
Cpt1b	5.46839432	0.290444	0.40678101	0.71400579	0.4752236	NA
Tmprss5	168.646588	0.2904311	0.37758063	0.76918962	0.44178075	0.71556426
Zfp677	70.5037182	0.29042799	0.34283889	0.84712673	0.39692449	0.68311652
Socs1	218.186683	0.29030476	0.25419679	1.14204731	0.25343436	0.54626394
Srcin1	670.804941	0.29024402	0.27146893	1.06916112	0.28499707	0.57788637
5830473C10F	1.55680274	0.29019233	0.28034995	1.0351075	0.30061871	NA
Krt7	357.071369	0.2901379	0.4178986	0.69427824	0.48750774	0.74891167
Gng5	1885.04336	0.29013458	0.18759651	1.54658832	0.12196255	0.37203601
Cp	5.08849609	0.29008308	0.24975052	1.16149139	NA	NA
BC039771	17.2698157	0.28996889	0.42658313	0.67974769	0.49666423	0.75603225
4933433C11F	20.2617404	0.28995954	0.421744	0.68752499	0.49175196	0.75201443
Agl	2393.64361	0.28985684	0.19502321	1.48626842	0.13720814	0.3956469
D3Ertd751e	453.370847	0.28976499	0.19229632	1.50686707	0.13184473	0.38839126
Ccs	3165.13083	0.28972405	0.22284662	1.30010519	0.19356492	0.47620196
Gpr128	6.10770853	0.28967822	0.41621116	0.69598861	0.48643597	0.7479826
Rbm12b1	482.84755	0.28967065	0.18982141	1.52601672	0.1270057	0.38080506
Zbtb10	3184.89098	0.28952582	0.25193918	1.14918936	0.25047791	0.54405045
BC027072	1.23257635	0.28947974	0.2516038	1.15053803	0.24992234	NA
S1pr2	2299.59801	0.28937321	0.23618606	1.22519172	0.22050299	0.50895393
Zfyve28	498.489314	0.28934996	0.38785097	0.74603389	0.45564695	0.7260746
Megf8	3655.20395	0.28918264	0.17776282	1.62678919	0.10378188	0.33917927
Pak6	130.936696	0.28915129	0.26770837	1.08009809	0.2800985	0.57238012
Tnfsf12	101.412821	0.28913845	0.28935631	0.99924708	0.31767501	0.61159656
Prickle4	99.4476162	0.28898949	0.30498585	0.94755048	0.34335835	0.63671108
BC029214	83.8823121	0.28892946	0.33032884	0.87467223	0.38175227	0.67065405

St8sia3	4.44931768	0.28887569	0.37119083	0.77824038	0.43642731	NA
Suox	480.920762	0.28869588	0.28073037	1.02837422	0.30377383	0.5985887
Zfp800	1152.73921	0.28868023	0.32923329	0.87682575	0.38058129	0.66965599
Gng12	2803.59692	0.28865909	0.24346026	1.18565177	0.23575985	0.52758273
Ccdc28a	266.627538	0.28865513	0.26935131	1.07166782	0.28386926	0.57623655
Gm11346	2.18429321	0.28862749	0.32903519	0.87719338	0.38038161	NA
C86695	9.61624044	0.28861693	0.40093775	0.71985471	0.47161445	0.73859646
Trim39	1959.05742	0.28857527	0.19435233	1.48480479	0.13759554	0.39624968
Tyk2	3572.31834	0.28844946	0.18553788	1.5546662	0.12002559	0.36873132
Cd177	15.5575379	0.28844144	0.42521154	0.67834811	0.497551	0.75633679
Nab1	792.697439	0.28840898	0.29795903	0.96794842	0.33307013	0.62623306
Atg2b	4284.54309	0.28797989	0.21163331	1.36074934	0.17359292	0.45100512
Ap2m1	7872.03023	0.28779116	0.20547661	1.40060303	0.16133281	0.43228454
Icosl	629.914673	0.28763156	0.31435153	0.9149997	0.36019179	0.65122369
Myo3a	1.450444	0.2876057	0.25050217	1.14811662	0.25092042	NA
Mcts1	2306.64668	0.28759919	0.16924287	1.69932828	0.08925735	0.31101075
Ctnnal1	5132.60771	0.28759582	0.2493042	1.15359395	0.24866668	0.54187974
Clca1	8.85579357	0.28752572	0.38795933	0.74112336	0.45861865	0.72916661
Magi3	2145.71455	0.28736061	0.23352293	1.23054557	0.21849287	0.506678
ErbB2ip	3888.05009	0.28730294	0.23656577	1.21447388	0.22456682	0.51379458
Vsig2	51.7268366	0.28729584	0.39023328	0.73621563	0.46159948	0.73179789
Pxmp2	1679.70312	0.28723571	0.19886833	1.4443512	0.14864021	0.41372557
Sh3yl1	337.419912	0.28715716	0.23998892	1.19654343	0.23148456	0.52302118
Atp6ap1	6453.87452	0.28713234	0.19500136	1.47246323	0.14089583	0.40129506
Cul1	13032.3985	0.28705201	0.16913222	1.69720475	0.08965796	0.31156892
Neo1	7733.7463	0.28702065	0.22432822	1.27946746	0.20073249	0.4844934
Dock7	4760.75708	0.28695017	0.20699843	1.38624323	0.16567265	0.43935424
Gaa	7581.62287	0.2869457	0.25224378	1.13757293	0.25529885	0.54828787
Fam166b	3.09890096	0.28694111	0.34953437	0.82092387	0.41168963	NA
SrpK3	13.0736749	0.28686977	0.42912336	0.66850187	0.50381329	0.76005847
BC026585	591.407342	0.28682865	0.28696775	0.99951528	0.31754514	0.61159656
Ube2dn1	15.5194693	0.28679487	0.4113003	0.69728826	0.48562241	0.74775368
Nespas	109.651437	0.28671596	0.28660068	1.00040224	0.31711589	0.61159656
Pax1	6.0046587	0.2865414	0.38656397	0.74125222	0.45854053	0.72916661
Sox15	1203.71953	0.28635627	0.27138822	1.05515366	0.29135505	0.58507276
Apoo	234.079808	0.28628354	0.26541177	1.07863919	0.28074861	0.5727301
Zfp112	80.4152221	0.28622351	0.37501091	0.76324049	0.44531999	0.71865423
Bex4	3620.03126	0.28615407	0.22594028	1.26650311	0.20533302	0.4903111
Dnajb11	6654.69025	0.28607218	0.16273467	1.75790552	0.07876359	0.28928968
1810026B05f	957.343782	0.28598586	0.24839971	1.15131318	0.24960341	0.54310658
Npc1	4650.08974	0.28589146	0.18619824	1.53541441	0.12468207	0.37722389

5031434O11	2.13765267	0.28588005	0.29395653	0.97252491	0.33078948	NA
Ngfrap1	11920.9417	0.28578486	0.19138987	1.49320789	0.13538278	0.39321069
Chkb	48.7390613	0.28563725	0.36683678	0.77864944	0.43618624	0.7101063
Ccdc163	865.336168	0.28563111	0.22353641	1.27778337	0.20132582	0.48541272
Snord35a	71.5834408	0.28562144	0.36062558	0.79201658	0.42835101	0.7047819
Clcn7	2793.02449	0.28553796	0.1896827	1.50534529	0.13223533	0.38856271
A230009B12	22.9699346	0.28544566	0.4244069	0.67257546	0.50121742	0.75821324
Slc6a11	1.51915325	0.28537468	0.27915915	1.02226521	0.30665539	NA
Tspan5	1902.32433	0.28534119	0.24612703	1.15932492	0.24632377	0.53945517
Mroh2b	1.88655074	0.28524491	0.30943202	0.92183387	0.35661524	NA
Il10	10.6899363	0.28523273	0.37993904	0.75073288	0.45281343	0.72423137
Zdhhc4	1142.43672	0.28520314	0.20190122	1.41258752	0.15777704	0.42767192
Krt28	4.87654181	0.2852014	0.39405664	0.72375737	0.4692147	NA
Kl	1.59081979	0.28518217	0.27765073	1.02712561	0.30436132	NA
A530032D15	1.59081979	0.28518217	0.27765073	1.02712561	0.30436132	NA
Pcyt1b	3643.69471	0.28500684	0.30734776	0.9273106	0.35376529	0.64527848
Zfp386	1173.01737	0.2847061	0.27198646	1.04676571	0.29520765	0.58984635
Zfp628	634.895603	0.28456161	0.28044253	1.01468778	0.31025468	0.60486516
Ptprn2	34.1711338	0.28447694	0.40171641	0.70815366	0.47884984	0.74309888
Abhd1	443.540993	0.28440163	0.23542357	1.20804232	0.22703098	0.51714743
Zfp185	1336.36999	0.28440003	0.28847714	0.98586676	0.3241985	0.618534
Scrt1	1.22002652	0.28432165	0.24968594	1.1387171	0.25482117	NA
Tmem231	6500.69413	0.28421899	0.15732197	1.80660712	0.07082356	0.27074168
Lypd1	5.23135468	0.28408271	0.41033374	0.69232111	0.48873569	NA
Creld2	4465.41296	0.28406967	0.18948277	1.4991847	0.13382572	0.39101
Tex30	2872.26309	0.28401696	0.20641984	1.37591887	0.16884675	0.44376134
Stat5a	587.991645	0.28385721	0.2251504	1.26074486	0.20740078	0.4927868
Ttc16	20.4531055	0.28384064	0.43226753	0.65663187	0.51141765	0.76501865
Snx20	675.506877	0.28383981	0.36782544	0.77166989	0.44030997	0.71437249
Lrp3	356.421966	0.28382239	0.31407366	0.90368097	0.36616459	0.65662195
Pnmal2	209.675492	0.28379745	0.31415144	0.90337785	0.36632539	0.65673734
Mb21d1	498.427145	0.28378968	0.24593576	1.1539179	0.24853383	0.54187974
Arl8a	4102.32534	0.28367341	0.17951942	1.58018233	0.11406512	0.35801802
Nfatc1	36.0199582	0.28364476	0.41105957	0.69003322	0.4901733	0.75115145
Coq10b	2110.24859	0.28358067	0.1751813	1.61878387	0.10549377	0.3419916
Cyp27a1	216.311622	0.28348081	0.36238574	0.78226258	0.43406027	0.70858066
Gan	602.029483	0.28347954	0.27803423	1.01958503	0.30792531	0.60278782
C130060C02F	6.75201436	0.2834429	0.41640761	0.68068617	0.49607009	0.7556456
Tmem125	59.128505	0.28341875	0.33029906	0.85806706	0.39085543	0.67903559
Rnf208	358.571389	0.28336137	0.29531483	0.95952299	0.33729534	0.63036653
Gtf2h5	3350.41323	0.28326303	0.21340203	1.327368	0.18438698	0.4644599

Tbc1d4	438.322504	0.28323113	0.41652487	0.67998613	0.49651324	0.75601768
Meox2	5.28713908	0.28311819	0.39833229	0.71075881	0.47723371	NA
Cabp7	104.278298	0.28295776	0.37200955	0.76061959	0.44688431	0.72034128
Ubl5	5895.05875	0.28292287	0.2066428	1.36913972	0.1709556	0.44688697
Fam134a	1067.24849	0.28282218	0.1932025	1.46386395	0.14323112	0.40444379
Tmem39b	835.531592	0.28272985	0.22337172	1.26573702	0.20560725	0.49054899
D030056L22f	5594.69872	0.28260658	0.19610888	1.44106978	0.14956497	0.41526243
B4galt5	5368.4632	0.28259712	0.20028802	1.4109537	0.15825827	0.42853462
Pim2	898.244868	0.28212161	0.24419949	1.15529156	0.24797105	0.54122075
Uchl1	4966.47108	0.28207311	0.29083943	0.96985857	0.33211699	0.62548022
Hdhd1a	21.7029539	0.28205462	0.43213443	0.6527011	0.513949	0.76592775
Dnajb3	62.8518171	0.28191399	0.42999124	0.65562729	0.51206396	0.76528308
Mapk15	102.305429	0.28186691	0.33197488	0.84906096	0.39584737	0.68276647
Cyba	1694.96073	0.28177584	0.29094098	0.96849828	0.33279558	0.62603606
Ube2l3	6112.30122	0.28173296	0.18066008	1.55946442	0.1188865	0.36678873
Ttc24	2.21617122	0.28168254	0.32797551	0.85885234	0.39042199	NA
Sema4b	5225.36958	0.28165289	0.23466614	1.2002281	0.23005076	0.52127633
H2-DMb2	1.578884	0.28165009	0.28029119	1.0048482	0.31496995	NA
Plce1	1272.72254	0.28158224	0.35987296	0.78244901	0.43395074	0.70858066
Folr2	103.414013	0.28144641	0.38561094	0.72987144	0.46546877	0.73450075
Bin2	1293.5866	0.28142701	0.23414363	1.20194176	0.22938609	0.52030092
Fsip1	44.9534642	0.28138347	0.35806472	0.78584527	0.43195814	0.70739059
Bglap3	162.082558	0.28133871	0.33522655	0.83924948	0.40132932	0.68647792
Ubac2	3862.97715	0.28131587	0.16501612	1.70477811	0.08823582	0.30918323
Enox1	366.34199	0.28126771	0.412729	0.68148279	0.49556606	0.75533199
Ppfi1p1	5683.82143	0.28124784	0.18085107	1.55513509	0.1199139	0.3685338
Memo1	4007.96502	0.28116626	0.16891988	1.66449478	0.09601359	0.32385312
Slc35c1	832.739642	0.28115323	0.191839	1.4655687	0.14276582	0.40395767
Nmnat3	19.5270578	0.28101587	0.42910499	0.65488838	0.51253962	0.76536429
Zfp566	1388.71871	0.28099016	0.20330586	1.38210556	0.16693929	0.44143393
Ftsj2	1065.44358	0.28088929	0.2052772	1.36834136	0.17120525	0.44738915
Zfp85os	15.2474601	0.28087841	0.43094807	0.65176857	0.51455048	0.76641122
Sh3bp5	103.125448	0.28078475	0.3568678	0.78680327	0.43139704	0.70688509
4930529M08	18.7644219	0.28069419	0.4236114	0.6626219	0.50757274	0.76278157
Klk5	2.03262434	0.28068326	0.29495678	0.9516081	0.34129577	NA
Snord110	10.3698402	0.28058335	0.42817225	0.65530484	0.5122715	0.76528308
Myog	12.5339978	0.28053396	0.43003918	0.65234513	0.51417856	0.76610648
Ints6	4925.19409	0.28033486	0.21440897	1.30747728	0.19105067	0.47327941
Samd10	661.612009	0.2802716	0.18752134	1.49461179	0.13501579	0.39257426
Itpk1	6819.64	0.28024224	0.16551103	1.69319373	0.0904186	0.31328893
Sh3pxd2a	2464.62842	0.28009837	0.26281317	1.06576992	0.28652766	0.57968137

Zfp942	2404.32085	0.28001774	0.25758592	1.08708481	0.27699933	0.56941395
Tctn1	949.626727	0.27988484	0.18047116	1.55085634	0.12093611	0.36999361
Uck1	1371.56356	0.27983584	0.23567496	1.18738043	0.2350776	0.52698453
Gpr137c	11.2595537	0.27971567	0.42372567	0.66013388	0.50916792	0.76389826
Spr	2697.3933	0.27969688	0.18615742	1.50247505	0.13297447	0.38977816
Tdrd3	1109.94453	0.27963082	0.21943229	1.27433761	0.20254379	0.487284
Tmem19	2570.78755	0.27958872	0.17088605	1.636112	0.10181615	0.33509904
Gdpd1	586.51976	0.27954282	0.30240409	0.92440158	0.35527727	0.64696432
Adam30	3.51550634	0.27951042	0.36016933	0.77605281	0.43771781	NA
Tmem160	1724.55747	0.27944001	0.24281811	1.1508203	0.24980617	0.54331969
Snx25	1814.41664	0.27927602	0.36837882	0.75812181	0.44837807	0.72114255
Ankrd29	33.5800324	0.27926414	0.39856647	0.70067142	0.48350809	0.74623207
Tcte1	1.24688783	0.27924535	0.24772785	1.12722632	0.25964681	NA
Serinc3	9634.00011	0.2792208	0.16598498	1.6822052	0.09252906	0.31679469
Ddx19a	4830.28381	0.27918945	0.24909992	1.12079305	0.26237596	0.55478597
Cnot6l	2042.09672	0.27916987	0.25729867	1.08500314	0.27792027	0.57032701
Phf13	3563.26733	0.27916919	0.19814327	1.4089259	0.15885708	0.42940839
Ankib1	2428.41044	0.27910987	0.23280705	1.19888923	0.23057102	0.52215086
Erbp2	1078.97458	0.27889566	0.21552508	1.2940288	0.19565547	0.47862801
Taf6l	1977.76229	0.27886683	0.20582778	1.35485517	0.17546371	0.45311128
Chid1	1134.29701	0.27873055	0.25365979	1.09883617	0.27183953	0.56527591
Ccl2	5.93446825	0.27854388	0.26131745	1.06592145	NA	NA
Bend4	5858.00867	0.27851078	0.23712123	1.17455013	0.24017474	0.53234855
Fbxw7	4111.3637	0.27851006	0.20290199	1.37263344	0.16986633	0.44511837
Arpc2	13884.868	0.27842651	0.19644003	1.41736137	0.1563773	0.42521829
Tmem132c	268.041091	0.27837915	0.39935093	0.697079	0.48575336	0.74775368
2310010J17R	80.3798427	0.2782758	0.34087718	0.81635208	0.4142988	0.69676294
3110062M04	277.969944	0.2781702	0.24326666	1.14347853	0.25283996	0.54598821
Sema3d	18.7665541	0.27792527	0.42805882	0.64926888	0.5161646	0.7671677
Acpt	2.25018828	0.27788561	0.3247501	0.85569061	0.39216893	NA
Snora5c	39.1437234	0.27778981	0.36989947	0.75098732	0.45266029	0.72421877
Klhl23	468.235059	0.27776086	0.2805093	0.99020195	0.32207542	0.61644244
Ercc6	1726.47499	0.27768528	0.2086589	1.33080962	0.18325166	0.46341272
Manbal	2150.05744	0.27762905	0.18873153	1.47102635	0.14128399	0.40171844
Trim9	1.6196794	0.27749835	0.28095736	0.98768852	0.32330522	NA
Gjb4	528.002922	0.27738165	0.32910983	0.84282397	0.3993269	0.68481833
4933403O08l	2.0353576	0.2772929	0.24603728	1.12703613	0.25972721	NA
Myo1h	29.0629066	0.27721472	0.39961614	0.69370253	0.48786878	0.74917686
Cd8b1	3.9901707	0.27719304	0.35911725	0.77187336	0.44018944	NA
Vps45	1283.66125	0.27714923	0.22079859	1.25521283	0.20940151	0.4956659
Rbmxl2	5223.98201	0.27707527	0.25591501	1.08268472	0.27894839	0.5713085

Asb5	1.2665934	0.27702141	0.24685164	1.12221824	0.26176966	NA
Chrng	4.69750965	0.27697965	0.37135888	0.74585439	0.45575538	NA
Cox7c	8669.10954	0.2769074	0.187738	1.47496724	0.14022135	0.4003272
Col6a5	34.6402964	0.27684461	0.42954613	0.64450496	0.51924804	0.76934346
Rnd2	829.071779	0.27682908	0.24940024	1.1099792	0.26700799	0.55962323
Abhd12	2407.8102	0.27681341	0.17889673	1.54733634	0.12178216	0.37177747
Fcrl5	3.66782763	0.27676891	0.35549682	0.77854117	0.43625004	NA
Zfp93	296.555499	0.27676803	0.24115233	1.14768966	0.2510967	0.54460318
Usp19	9800.4292	0.27673265	0.21370574	1.29492377	0.19534653	0.47809787
Mir697	6.05991969	0.2767111	0.4105158	0.67405712	0.500275	0.75774583
Hgf	3.9468103	0.27669979	0.34930594	0.79214167	0.42827808	NA
Diras2	58.1010743	0.27663229	0.38427056	0.71988935	0.47159312	0.73859646
C2cd4a	3.15689806	0.27654835	0.3596638	0.76890794	0.44194796	NA
3830417A13f	50.4027987	0.27632801	0.38424721	0.71914124	0.4720539	0.73859646
Skint11	1.2254206	0.27624566	0.24662377	1.12010966	0.26266704	NA
Mgat2	4563.79656	0.27616458	0.17001483	1.62435578	0.1042999	0.33956461
Mrpl20	4572.09538	0.27612887	0.19692181	1.40222596	0.16084778	0.43208565
Hlx	12.5630484	0.27608701	0.41995162	0.65742575	0.5109072	0.76483615
Zhx1	1091.44818	0.27594229	0.22287645	1.23809532	0.21568072	0.5027617
Tctn2	1086.40969	0.27582997	0.24902923	1.10762088	0.26802558	0.56067606
Zxda	83.4314362	0.27577569	0.36852128	0.74833042	0.45426088	0.72512943
Cubn	13.1109679	0.27543955	0.43223909	0.63723888	0.52396926	0.77176852
Hpcal1	1602.62464	0.27535686	0.26858753	1.02520347	0.30526719	0.59977386
Fthl17	11.0420443	0.27532968	0.40841744	0.67413791	0.50022364	0.75774583
Dcaf12l2	3.86607952	0.27531724	0.358086	0.76885786	0.44197769	NA
Pop7	1091.36253	0.27530556	0.19903139	1.38322686	0.16659532	0.44114841
Xk	514.786461	0.27528922	0.30857167	0.89214032	0.37231773	0.66246144
Vcam1	4.59606099	0.27528023	0.24444903	1.12612526	NA	NA
Zeb1	2501.59788	0.27521538	0.30944138	0.88939426	0.37379123	0.6634462
Cmc2	1395.49449	0.27518184	0.20433361	1.34672818	0.17806779	0.4556391
Dusp1	2788.53858	0.2751645	0.21793408	1.26260427	0.20673143	0.49172232
LOC381967	4.47617899	0.27515833	0.36397871	0.75597368	0.44966497	NA
Dnah11	19.9429329	0.27510056	0.42573697	0.64617494	0.51816607	0.76808698
Selp	3.42966906	0.27502881	0.35279818	0.77956415	0.43564746	NA
Phf8	3297.67423	0.27500631	0.2538733	1.08324235	0.27870087	0.57094943
Zfp389	6.74788958	0.27482412	0.41656158	0.65974428	0.50941794	0.76407778
P2ry6	22.0572362	0.27468465	0.409153	0.67134948	0.50199792	0.75895097
Brms1l	3059.59101	0.27466554	0.15440645	1.77884763	0.07526475	0.28064941
AF357355	3.3946319	0.27463911	0.36422054	0.75404619	0.45082149	NA
Flnb	23429.6679	0.27460428	0.26831449	1.02344188	0.30609897	0.60042854
Sac3d1	1329.34795	0.27438002	0.21163052	1.29650494	0.19480158	0.47770871

4930543E12F	5.25472138	0.27421712	0.39769491	0.68951629	0.49049842	NA
Ypel3	934.207583	0.27413188	0.2649679	1.03458525	0.30086264	0.59559316
Nop16	4451.29636	0.2740719	0.18852725	1.45375221	0.14601502	0.40984047
Mkl1	1256.11416	0.27401071	0.22320164	1.22763753	0.21958307	0.50805484
Drd3	2.20098038	0.2739773	0.32579386	0.84095294	0.4003743	NA
Diablo	4580.26408	0.27385606	0.17089171	1.60251227	0.10904238	0.34903212
Gm11627	258.103733	0.27376328	0.34423667	0.79527634	0.42645277	0.70402942
Atp5e	5860.00547	0.27355613	0.21281588	1.28541221	0.19864828	0.48170581
Slc16a8	2.39110443	0.27350929	0.31602766	0.86545999	0.38678637	NA
4930598F16F	3.09614789	0.27346975	0.34295133	0.79740105	0.42521815	NA
Pcdhgc5	30.7911157	0.27338715	0.42023115	0.65056375	0.51532814	0.76673057
Acad8	2286.26541	0.27326659	0.16303368	1.67613586	0.09371158	0.31888596
Vezt	901.35843	0.27323845	0.21789601	1.25398555	0.20984726	0.49632467
Fam19a1	2.43538788	0.27317156	0.26376783	1.03565155	0.30036473	NA
Gm6484	2.19788831	0.27314065	0.29372939	0.92990577	0.35241987	NA
Fam120aos	441.089712	0.27313467	0.27187625	1.00462863	0.31507571	0.6093449
Dnajb1	5688.91209	0.27291144	0.2041509	1.3368123	0.18128391	0.46004343
Ppp3cc	195.637281	0.27288026	0.38510053	0.70859486	0.47857593	0.74302874
Mtch2	18610.3274	0.27279781	0.19193796	1.42128115	0.15523504	0.4237087
Ggact	713.886633	0.27273672	0.18760259	1.45380037	0.14600166	0.40984047
Pdrg1	1981.82279	0.27266708	0.17236197	1.58194458	0.11366222	0.35737186
Sh2d2a	1.73357127	0.27261852	0.30729512	0.88715538	0.37499525	NA
Cpa2	40.887885	0.27256667	0.38650959	0.70520029	0.4806856	0.74425276
Acta1	6.80238853	0.27247684	0.41482872	0.6568418	0.51128264	0.76501865
Myeov2	2111.23599	0.27247427	0.23546064	1.15719667	0.24719202	0.54012689
Srp14	6455.59286	0.27240887	0.22430268	1.21446998	0.22456831	0.51379458
Mfsd8	400.755868	0.2723831	0.23433961	1.16234341	0.245096	0.537854
Nlrc4	110.164199	0.27216999	0.42268058	0.64391412	0.51963112	0.76959844
Mcfd2	3125.4253	0.27216385	0.1803873	1.50877499	0.13135629	0.38745979
Slc5a6	2233.69162	0.27190479	0.22805688	1.19226744	0.2331564	0.5247835
Lrrn4cl	224.48018	0.27187205	0.31266924	0.86951965	0.38456297	0.67384098
H2-Q2	51.7052591	0.27185067	0.43159046	0.62988108	0.52877239	0.7758222
Zfp458	84.1185084	0.27178426	0.30865351	0.88054807	0.37856247	0.66771292
4931431C16F	2.61768527	0.27177549	0.33640084	0.80789183	0.41915286	NA
Rcl1	6194.17145	0.27164823	0.18046388	1.50527752	0.13225274	0.38856271
DQ267100	9.37043514	0.27159663	0.43071466	0.63057207	0.52832037	0.77552483
5033406O09I	199.44518	0.27151848	0.27091358	1.00223282	0.31623116	0.61081987
Psenen	681.240952	0.27125246	0.21271433	1.27519596	0.20223989	0.48692251
Adrbk2	871.268208	0.27123865	0.30553144	0.8877602	0.37466975	0.6642902
BC100451	5.73430902	0.27113449	0.40133199	0.67558655	0.49930318	NA
Ssbp2	432.603435	0.27113243	0.40968325	0.66180989	0.50809307	0.76319475

Mrpl41	1737.54013	0.27074446	0.21800104	1.24194116	0.21425827	0.50141917
4933427D06l	624.796823	0.2707249	0.27167871	0.9964892	0.31901251	0.61284294
Mast2	4348.41745	0.27070536	0.20406168	1.32658594	0.18464569	0.46455672
Ticrr	12063.9194	0.27066733	0.24940729	1.08524228	0.27781436	0.5702108
Wscd2	363.032213	0.27064299	0.31821606	0.85050073	0.39504676	0.68236944
Spef2	42.5841665	0.27064117	0.3689927	0.7334594	0.46327828	0.73297798
Tmem181a	3391.1062	0.27047298	0.42855811	0.63112322	0.52795996	0.77536173
Acadl	1935.9632	0.27038453	0.28623486	0.94462476	0.34485048	0.63773152
Col4a6	4.40271241	0.27035192	0.39252965	0.68874266	0.49098523	NA
Trem14	8.55987753	0.27031009	0.42481306	0.63630362	0.52457855	0.77236517
Toporsos	93.2500769	0.27026223	0.29484619	0.91662108	0.35934123	0.65018613
BC037704	65.3865067	0.27023662	0.36145716	0.74763112	0.45468269	0.72520723
Map4	26612.6366	0.27017077	0.17767134	1.52062101	0.12835497	0.3824439
Olf20	2.08394259	0.27015646	0.2961077	0.91235876	0.36157989	NA
Ybx1	71523.4923	0.26994945	0.19484167	1.38548111	0.1659054	0.43967194
Pi4k2b	1762.38657	0.26994257	0.24768111	1.08987949	0.27576623	0.56820011
Kcnq1ot1	218.727533	0.26994167	0.39065818	0.69099199	0.48957058	0.75067166
Mrps7	4429.10558	0.26991073	0.20156733	1.33905993	0.18055117	0.45930822
Brinp1	14.455277	0.26979845	0.43164236	0.62505091	0.53193764	0.77840121
Leng1	701.517855	0.26979128	0.22070698	1.22239577	0.221558	0.50979956
Pkdrej	4.74186432	0.26972881	0.40201574	0.67094092	0.50225816	NA
Ppp1r3c	185.985477	0.26971944	0.41301013	0.65305767	0.5137191	0.76592775
Madcam1	98.05782	0.26970268	0.39891055	0.67609814	0.49897834	0.75696826
Fez2	1262.54234	0.26959251	0.18416566	1.46385873	0.14323255	0.40444379
Rgs10	141.541694	0.26918281	0.3807117	0.70705159	0.47953442	0.74371594
Snora78	46.9180394	0.26904403	0.39305024	0.6845029	0.49365766	0.75389732
Esp6	1.54839025	0.26901414	0.27563271	0.97598772	0.32907055	NA
2810002D19l	422.506837	0.26898127	0.35675515	0.75396604	0.45086961	0.7229937
Pard6b	1292.00558	0.2688152	0.26596204	1.01072767	0.31214679	0.60664161
Rsg1	74.7349224	0.2687759	0.32564979	0.82535259	0.40917144	0.69268726
Pitpnc1	3479.87132	0.26867745	0.32750688	0.82037193	0.41200411	0.69453398
Oma1	1250.99221	0.26853351	0.17773017	1.5109056	0.1308125	0.38666893
Phf21a	1892.60716	0.26846174	0.18479487	1.45275538	0.14629169	0.4103691
Ttc9	391.662286	0.26843968	0.37229311	0.7210439	0.47088251	0.73829186
Agrn	19689.1318	0.26834024	0.23499866	1.14187988	0.25350395	0.54626394
Fkbp1b	374.120491	0.26794001	0.31762844	0.84356427	0.39891294	0.68471248
Cry1	2871.36621	0.26791408	0.20812921	1.28724885	0.19800756	0.48105228
Cers3	24.3995698	0.26787219	0.40984848	0.65358835	0.51337705	0.76592775
Zfp369	746.900337	0.26783072	0.30848728	0.8682067	0.38528119	0.67441555
4930528A17f	45.0036432	0.26781374	0.3780662	0.7083779	0.47871061	0.74303112
Col9a1	3.14712714	0.26779677	0.3187054	0.8402643	0.40076021	NA

Cwh43	79.8561889	0.26774852	0.34795434	0.76949327	0.44160054	0.71556426
Camk2d	276.765176	0.26748121	0.3159279	0.84665267	0.39718875	0.6834125
Mir17	2.4269568	0.26736552	0.35114246	0.76141609	0.44640858	NA
Tmc2	1.60712957	0.26720385	0.27686602	0.96510164	0.33449391	NA
B230118H07I	972.62269	0.26713797	0.21494555	1.24281697	0.21393529	0.50085527
Tmem191c	1311.06995	0.26700226	0.3598301	0.74202315	0.45807331	0.72881196
E330020D12I	499.461854	0.26699949	0.37835822	0.70567912	0.48038771	0.74407463
Peg12	609.242833	0.26695012	0.43175114	0.61829628	0.53638005	0.78079624
Dus3l	3242.11203	0.26693901	0.20222058	1.32003881	0.18682206	0.46783734
Tac1	1.40696919	0.26691909	0.27447703	0.97246422	0.33081965	NA
Synj2bp	3475.51335	0.26688757	0.15682715	1.70179448	0.0887939	0.31002115
Rrbp1	17554.7271	0.26639029	0.31331294	0.85023712	0.39519327	0.68239513
Numbl	1698.17141	0.26626523	0.2298439	1.15846116	0.24667589	0.53953931
Msrb2	1250.73182	0.26601507	0.28458161	0.93475847	0.34991278	0.64198366
Rnf122	335.067743	0.26595143	0.25233181	1.05397504	0.29189435	0.58563546
5330413P13F	59.2664406	0.26559489	0.42560573	0.62403973	0.53260149	0.7787064
Ndufab1	723.307152	0.26537021	0.1866837	1.42149642	0.15517249	0.4237087
Vps18	1635.67759	0.26535444	0.217783	1.21843506	0.22305869	0.51207347
Tlr12	1.96271946	0.26533863	0.29008963	0.9146781	0.36036065	NA
Cyb5d2	249.569934	0.26528009	0.24692003	1.07435632	0.28266301	0.57497613
5830416I19R	3.73382505	0.26515438	0.37136628	0.71399691	0.47522909	NA
E230016K23F	6.63441349	0.26508744	0.38005788	0.69749228	0.48549477	0.74775368
Cbx6	4406.79976	0.26507605	0.19847838	1.33554122	0.18169927	0.46079683
Nudt16	134.627129	0.26496451	0.33274202	0.79630612	0.42585413	0.70402942
Clasp1	5577.06433	0.26468261	0.20581417	1.28602716	0.19843358	0.4814104
Haus4	5825.78608	0.2646618	0.33635536	0.78685176	0.43136865	0.70688509
Nedd8	6817.53857	0.26463766	0.18858076	1.40331208	0.1605238	0.4319432
Fut8	2475.74489	0.26457914	0.20941487	1.263421	0.20643792	0.49117443
Islr2	285.250611	0.26448598	0.31061844	0.85148191	0.39450171	0.68203403
Mob2	1041.33033	0.26438694	0.18296828	1.4449878	0.14846131	0.41357758
Snhg11	3379.52351	0.26436872	0.24843874	1.06412034	0.28727419	0.58077783
Fmo4	2.55674579	0.26423791	0.30926105	0.85441703	0.39287396	NA
8430423G03I	1.38726362	0.26419214	0.27376386	0.96503659	0.33452649	NA
Tmem30c	1.38726362	0.26419214	0.27376386	0.96503659	0.33452649	NA
Efna3	717.772154	0.26408901	0.22195542	1.1898291	0.23411357	0.5258088
Acbd5	2925.40742	0.26376829	0.18381122	1.4349956	0.15128835	0.41838967
Txndc11	1513.27162	0.26376199	0.17231147	1.530728	0.12583663	0.37885621
Ntrk1	110.092389	0.26366155	0.41950506	0.62850624	0.52967236	0.77670296
Morn3	18.5836931	0.26363822	0.43148492	0.61100217	0.54119815	0.7847247
Nedd9	55.7748275	0.26356741	0.38745361	0.6802554	0.49634276	0.75583884
1700123O20I	2129.73698	0.2631754	0.18631859	1.41250213	0.15780217	0.42767192

Atg4a	423.4907	0.26300452	0.20775732	1.26592183	0.20554107	0.4904873
Nfe2l2	11130.5605	0.26299365	0.19082512	1.37819194	0.16814403	0.44308872
Gm20337	66.768742	0.26290609	0.33639075	0.7815497	0.43447926	0.70860901
Rbm3os	41.5297735	0.26286851	0.38198585	0.68816295	0.49135017	0.75186608
Hoxc6	47.3884369	0.26283399	0.35039373	0.75011042	0.45318821	0.72431158
Ngp	1.39981345	0.26264775	0.27277135	0.96288611	0.33560468	NA
Zim3	122.19031	0.26264033	0.38579327	0.68077995	0.49601074	0.75562921
Pigm	2700.74221	0.26259771	0.21991749	1.19407377	0.23244911	0.5242663
Adcy9	494.784587	0.26258503	0.33984375	0.77266398	0.43972127	0.71378972
Arpc5l	3637.48066	0.26255114	0.16046475	1.63619201	0.10179941	0.33509904
Arfgap1	3131.39781	0.26253955	0.17292696	1.51821063	0.12896131	0.38379957
Limk1	2387.45879	0.26244943	0.20429851	1.28463703	0.19891915	0.48213712
Ptpn9	937.323414	0.26236243	0.26537121	0.98866197	0.32282856	0.61735205
Tmem110	1268.76764	0.26222703	0.17122698	1.53145859	0.12565609	0.37885621
Dffa	1131.14891	0.26218809	0.21168263	1.23859045	0.21549721	0.50275397
Akr1c14	16.5166023	0.26210568	0.42999479	0.60955547	0.54215632	0.78508319
Acp6	10525.0098	0.26204022	0.26395696	0.99273845	0.32083743	0.61482969
Sesn1	3212.61759	0.26203345	0.26628006	0.9840521	0.3250899	0.6188465
Ntng2	19.2691558	0.26197506	0.42887487	0.61084264	0.54130376	0.78480466
Safb2	4526.1869	0.26191278	0.21522334	1.21693485	0.22362901	0.51290671
Col15a1	7.68682898	0.2618041	0.42161062	0.62096182	0.53462474	0.77984269
Gyg	949.658537	0.26177114	0.25554424	1.02436721	0.30566186	0.60009099
Tmem74b	18.5284031	0.26173304	0.43219029	0.60559675	0.54478256	0.78639569
Degs2	12.4607901	0.26154583	0.43193044	0.60552767	0.54482845	0.78639569
Lct	26.1511752	0.26138638	0.4309507	0.60653429	0.54416002	0.78623679
Tfeb	3182.54605	0.26129319	0.27695847	0.94343816	0.34545683	0.63779826
Lbx2	7.37675786	0.26128962	0.41996572	0.62216893	0.5338308	0.77957624
Tmem25	110.810043	0.26115694	0.30669836	0.85151072	0.39448571	0.68203403
Ccdc91	1049.18879	0.26108756	0.18550349	1.40745363	0.15929292	0.43014212
Tmed3	531.295003	0.26106906	0.27983619	0.93293532	0.35085337	0.64280404
Hspa1l	4.24942873	0.2610563	0.36069592	0.72375728	0.46921476	NA
Fgg	93.2128882	0.26096055	0.42629698	0.61215669	0.5404341	0.78434817
Nhlrc1	346.855204	0.26093864	0.25607684	1.01898571	0.30820975	0.60283181
Alkbh6	1042.80911	0.26083708	0.19038739	1.37003335	0.17067649	0.44638246
Mfsd4	118.646617	0.26071074	0.39446446	0.66092328	0.50866151	0.76360606
Hsd3b7	1352.69824	0.26059842	0.24865937	1.04801369	0.2946323	0.58907519
Ccr8	5.97466165	0.26050331	0.40970222	0.63583573	0.52488349	0.77262188
Timm21	328.530029	0.26046778	0.23469415	1.10981797	0.26707747	0.55963851
3110009E18F	280.697342	0.2603467	0.27528216	0.9457449	0.34427872	0.63748824
Syng2	5500.2863	0.260151	0.21208975	1.22660803	0.21996995	0.5086096
Psd4	273.739114	0.26014819	0.33157621	0.78458038	0.43269964	0.70789874

Med29	775.276407	0.25974863	0.21066939	1.23296807	0.21758768	0.50540791
Nodal	5993.56173	0.25970309	0.21795838	1.19152604	0.23344714	0.52506228
Myocd	1.09529262	0.25969964	0.24043574	1.08012081	0.28008839	NA
Mir30d	1.09529262	0.25969964	0.24043574	1.08012081	0.28008839	NA
5730416F02F	1.88279079	0.25958876	0.29053787	0.89347652	0.37160204	NA
Trim15	8.48485067	0.25958492	0.41183485	0.63031315	0.52848972	0.77562901
Rpp38	1240.56477	0.25957959	0.18192536	1.4268467	0.15362409	0.42148552
Cd48	2.99487951	0.25935899	0.34897472	0.7432028	0.45735891	NA
Kcnma1	49.123189	0.25932382	0.43197018	0.60032805	0.54828763	0.78882606
Hdac1	17099.1037	0.2592815	0.21895715	1.1841655	0.23634756	0.52810283
Mfn2	1565.51166	0.25916599	0.22551551	1.1492158	0.25046701	0.54405045
BC016579	1.76181685	0.25899044	0.3035634	0.85316752	0.39356641	NA
Arhgap1	6018.83788	0.25894666	0.19039184	1.36007224	0.17380706	0.45100512
Plin1	1.08813688	0.25862032	0.24001623	1.0775118	0.28125168	NA
Aadat	1.08813688	0.25862032	0.24001623	1.0775118	0.28125168	NA
Rptn	1.91062371	0.25857087	0.2389424	1.08214731	0.27918708	NA
Zfp248	375.355166	0.25852213	0.26871627	0.96206355	0.33601768	0.62870495
Glipr1	15.1537356	0.25846297	0.42870658	0.60289015	0.54658177	0.78775654
Kazald1	49.0209129	0.25841427	0.39941416	0.64698325	0.51764278	0.76807205
Cdon	1390.21146	0.25832276	0.30477819	0.84757626	0.396674	0.68311652
Gabra4	2.88566535	0.25805367	0.3034814	0.85031131	0.39515203	NA
Sptb	437.27404	0.25803674	0.34609838	0.74555893	0.4559339	0.72630896
Cycs	2769.49288	0.25800917	0.19733985	1.30743574	0.19106477	0.47327941
Gapdhs	2.33351273	0.25796048	0.30397487	0.84862436	0.39609035	NA
Micu3	950.917578	0.25783872	0.20894	1.23403237	0.21719084	0.50478775
B230208H11	33.0922367	0.25762648	0.38592773	0.66755111	0.50442017	0.7604459
Fbxo46	612.182449	0.25742168	0.22676977	1.13516753	0.25630513	0.54923505
Egflam	9.00231157	0.25735485	0.42368026	0.60742705	0.54356754	0.78603486
Tgfbr3	615.467312	0.25723751	0.35978229	0.71498103	0.47462076	0.74052205
Msl3	872.210759	0.25713422	0.23660187	1.08678018	0.27713397	0.56954016
Soga1	1269.25888	0.25711477	0.28558116	0.90032119	0.36794935	0.6582285
Gm10640	2.97844154	0.25708395	0.36171697	0.71073235	0.47725011	NA
Aatk	35.6047924	0.25695561	0.41849649	0.61399706	0.53921727	0.78302849
Rusc1	1031.65666	0.25690572	0.22164897	1.15906567	0.24642942	0.53951265
Rad21l	2.47087012	0.25667624	0.3335323	0.76956937	0.44155538	NA
Gadd45g	77.6289292	0.2564363	0.36472789	0.70308938	0.48200005	0.74506279
2610028E06F	12.2118842	0.25637027	0.43137565	0.59430862	0.55230571	0.79179683
Oasl2	68.3330107	0.25624102	0.42148129	0.60795349	0.54321832	0.78596222
Cdca7l	1961.75567	0.256147	0.26412388	0.96979868	0.33214685	0.62548022
Aph1a	1125.81927	0.25599286	0.18515788	1.38256534	0.16679818	0.44136099
Plekhb1	399.77348	0.25593694	0.33773965	0.75779359	0.44857456	0.72138397

Tesc	753.784268	0.25586272	0.42857201	0.59701221	0.55049923	0.79097822
Gramd1a	3395.12772	0.25582421	0.18999629	1.34646952	0.17815114	0.45566257
Cpt1a	13282.3683	0.25576278	0.24066798	1.06272045	0.28790874	0.58147146
Gpr61	2.52784779	0.25575498	0.33366115	0.76651113	0.44337223	NA
Csk	2638.64624	0.25565297	0.2021172	1.26487486	0.20591619	0.49075903
Map4k2	1381.35424	0.25543846	0.18847524	1.35528921	0.17532543	0.45309298
Tmem38b	1449.50268	0.25523514	0.17834308	1.43114686	0.15238813	0.4200262
4930512B01f	1.73319388	0.25522297	0.30298799	0.84237565	0.39957772	NA
Pax7	7.01651002	0.25522652	0.41048755	0.62176435	0.53409683	0.77966205
Pitpna	5935.94864	0.25518207	0.15340643	1.66343795	0.0962248	0.32400358
C230052112R	1082.111	0.25509596	0.23047719	1.10681653	0.26837326	0.56110753
Nek11	13.9946732	0.25508848	0.43180008	0.59075599	0.55468393	0.79393007
Tubb2a	1967.37337	0.25491405	0.22078123	1.15460019	0.24825419	0.54162653
Ifitm10	3.54309374	0.25479742	0.35154065	0.72480213	0.46857343	NA
Eps8l1	27.611015	0.25478003	0.42713941	0.59647981	0.55085474	0.79097822
Dtnbp1	1064.39771	0.25475554	0.17572344	1.44975276	0.14712748	0.41165516
Cntn1	4.94203725	0.25471543	0.39734443	0.64104442	0.52149382	NA
Tubd1	563.041557	0.25459159	0.19353299	1.31549455	0.18834375	0.46953088
Ppm1n	252.191902	0.25454185	0.25926178	0.98179473	0.32620099	0.61957682
Zfhx2os	5.06720965	0.25449346	0.40807273	0.62364732	0.53285923	NA
Msn	19362.0589	0.25442292	0.21083108	1.20676193	0.22752384	0.51773826
Dmrta1	9.84238649	0.25439077	0.40281039	0.63153975	0.52768767	0.77506906
Gjd4	4.71778477	0.25427754	0.38759339	0.656042	0.5117971	NA
Fsd1l	2266.4128	0.25418489	0.32300346	0.7869417	0.431316	0.70688509
Pld4	75.4568941	0.25400244	0.4090158	0.62100887	0.53459379	0.77984269
Irgm2	221.800185	0.25393325	0.33807268	0.7511203	0.45258026	0.72421877
4930599N23l	2.05416523	0.25387994	0.32029127	0.79265332	0.42797983	NA
Wdfy3	4285.60508	0.25354775	0.30332168	0.83590383	0.40320901	0.68760865
BC017158	584.911046	0.25351912	0.20828959	1.21714735	0.22354816	0.51281862
Plg	2.5669936	0.25338932	0.33526807	0.75578126	0.44978036	NA
Zcchc17	2196.27367	0.25335506	0.16858718	1.5028133	0.13288719	0.38977816
Als2cl	1224.63423	0.25333993	0.24955209	1.01517854	0.31002073	0.6047582
Pxk	1460.99276	0.25332945	0.23138032	1.09486169	0.27357724	0.56657339
Slc25a3	32068.6268	0.25317003	0.18444665	1.37259219	0.16987916	0.44511837
Lamtor1	4954.70056	0.25311481	0.19652972	1.28792127	0.19777337	0.48093412
Epb4.2	3.27492726	0.25299542	0.3746479	0.67528851	0.49949248	NA
Rtdr1	1.42128067	0.25295488	0.26792095	0.94413998	0.34509812	NA
Slc12a4	2415.14224	0.25289827	0.17763006	1.42373579	0.15452297	0.42295308
Mansc1	253.045454	0.25277456	0.32205396	0.78488264	0.43252238	0.70786735
AV051173	3.92689081	0.25270151	0.38565082	0.65525987	0.51230045	NA
Snora75	38.3132368	0.25266989	0.40342086	0.62631837	0.53110614	0.77814505

Adra1a	3.89333978	0.25263592	0.35042215	0.72094736	0.4709419	NA
Ogfr	2381.84406	0.25260469	0.2019402	1.25088862	0.21097512	0.49778092
Pitx1	99.8199365	0.25239288	0.40440814	0.62410436	0.53255905	0.7787064
Nfs1	3964.74641	0.25238776	0.16766405	1.50531828	0.13224227	0.38856271
Kdm4a	7948.60992	0.25236028	0.20334806	1.24102626	0.21459605	0.50166747
Slc25a33	2363.7004	0.25230254	0.27132276	0.92989817	0.35242381	0.64439796
Prr5	870.88238	0.25224175	0.24248129	1.04025241	0.29822265	0.59275818
Smad1	1626.33209	0.25218404	0.23211927	1.08644165	0.27728364	0.56955371
Apbb1ip	1.92427389	0.25218108	0.33838331	0.74525272	0.45611896	NA
Rcan3	3299.39345	0.25205149	0.233694	1.07855353	0.28078681	0.5727329
Prelp	3.64160178	0.25198276	0.29955135	0.84120055	0.40023559	NA
Fcamr	4.56611834	0.25196737	0.31492899	0.80007678	0.42366631	NA
Gm20597	2.83619565	0.25185152	0.30976467	0.81304147	0.41619428	NA
Aff1	16425.9816	0.25183522	0.2490562	1.01115823	0.31194071	0.60644954
Apom	384.490866	0.25183498	0.35177154	0.71590492	0.47405006	0.74015587
Tgoln1	4779.29887	0.25177139	0.17326571	1.45309414	0.14619762	0.41023442
Marcks	4463.99384	0.25177075	0.29866692	0.8429817	0.39923868	0.68479492
Gpr182	47.6236783	0.25175618	0.41439808	0.60752255	0.54350418	0.78603486
Scn5a	6.29125541	0.2517354	0.41822426	0.60191487	0.54723081	0.78821846
Med28	5543.97468	0.25163367	0.2087776	1.20527139	0.22809855	0.51866656
1600014C10F	890.44635	0.2516318	0.18130823	1.38786748	0.1651774	0.43856476
Mybpc3	197.874745	0.25154194	0.37086626	0.67825512	0.49760995	0.75633679
Bsdc1	3368.96242	0.25142871	0.1912894	1.31438911	0.18871529	0.47007972
Zer1	1418.22616	0.25113256	0.19514117	1.28692761	0.19811952	0.4811611
Trappc3	2561.33318	0.25110158	0.18252385	1.37571926	0.16890857	0.44384879
Polr1d	5062.00359	0.25106894	0.19669268	1.2764529	0.20179547	0.4862289
1700026D08I	11.3449347	0.25094517	0.42206709	0.59456229	0.55213609	0.79179683
Upk3b	43.0757488	0.25091362	0.38269265	0.6556531	0.51204735	0.76528308
Gas8	600.531259	0.25059636	0.28140771	0.89050994	0.37319213	0.66295532
Nod1	4436.28726	0.25053451	0.41214217	0.60788371	0.54326461	0.78596222
Elf5	11.1989123	0.25042973	0.42171215	0.59384044	0.55261884	0.79190707
Tbc1d8	2424.95373	0.25033432	0.29217814	0.85678662	0.39156282	0.67959748
Gm5424	282.602624	0.25025126	0.26107238	0.95855127	0.33778485	0.63097804
Hhipl1	21.8373638	0.25024262	0.41952413	0.5964916	0.55084686	0.79097822
Tmem184c	3036.0468	0.25022722	0.22070108	1.13378337	0.25688543	0.54993313
Abat	222.375133	0.2502243	0.29513176	0.84783929	0.39652748	0.68311652
Spata31d1d	3.05950237	0.25019667	0.34222699	0.73108399	0.46472785	NA
BC049635	4.74538762	0.25018492	0.39339429	0.63596481	0.52479936	NA
Efcab12	208.182233	0.25018155	0.27786917	0.90035738	0.3679301	0.6582285
Lym7os	1.44875601	0.25011029	0.27019987	0.92564917	0.35462833	NA
Gtf3c1	12296.6719	0.25009753	0.21939122	1.13996147	0.25430235	0.54743299

Pard6a	462.553238	0.25008987	0.2371053	1.05476288	0.29153378	0.58528813
Npb	57.9044868	0.25003977	0.39049581	0.64031358	0.52196875	0.77078493
Trmt44	2386.03741	0.24993901	0.18874768	1.32419645	0.18543781	0.46600774
Tuft1	836.329862	0.24987017	0.30771943	0.81200649	0.41678791	0.69852668
Atp6v1e1	9610.94607	0.24968178	0.207847	1.20127677	0.22964386	0.52065777
C1qtnf2	5.51322756	0.24951771	0.39911183	0.62518245	0.53185132	NA
Cst9	1.76981668	0.24950266	0.23542753	1.05978538	0.28924225	NA
Ino80c	3298.50203	0.24937412	0.17984321	1.38661959	0.16555779	0.43912489
6430550D23I	22.9139499	0.24932471	0.43042512	0.57925225	0.56241898	0.79942162
Kis2	6.24405904	0.24900579	0.41328475	0.60250417	0.54683859	0.7879178
Rhbdl3	80.9664172	0.24897802	0.39995676	0.62251236	0.53360502	0.77945629
Slc22a23	777.141989	0.24894618	0.25239674	0.9863288	0.32397179	0.618534
Pspc1	6887.26476	0.24870855	0.19201029	1.29528761	0.19522103	0.47806832
Ndufa2	4261.49707	0.24864578	0.24746522	1.00477059	0.31500733	0.6093449
Rb1	1546.45503	0.24859798	0.29486007	0.84310492	0.39916977	0.6847754
Usp13	1191.30501	0.24857819	0.17706583	1.40387446	0.16035624	0.43166
Stim1	1565.4678	0.24840658	0.1923558	1.29139117	0.19656807	0.47963252
Krt71	1.06843131	0.24831901	0.23585447	1.05284847	0.29241045	NA
Zfp28	927.862373	0.24818119	0.2220681	1.11759045	0.26374195	0.55545112
Trim46	49.7762395	0.24817467	0.41191258	0.60249354	0.54684566	0.7879178
Dnase1l1	137.17794	0.24813242	0.32128898	0.77230292	0.43993504	0.71398766
1700029I15R	10.0659407	0.24784096	0.43223854	0.5733893	0.56638113	0.80234403
Apba2	74.6897022	0.24780429	0.37765841	0.65615987	0.51172126	0.76525833
4-Mar	3.03076735	0.24780132	0.34127864	0.72609676	0.46777946	NA
Gm11529	2.00759835	0.24774709	0.31965659	0.77504141	0.43831519	NA
Itga3	2425.37543	0.24768512	0.23338058	1.06129276	0.28855688	0.5820921
2610037D02I	203.057317	0.24760262	0.42742973	0.57928263	0.56239848	0.79942162
Pde6a	32.3842856	0.24758292	0.4320384	0.57305766	0.56660565	0.80239311
Prrg1	176.695934	0.24754676	0.42586232	0.58128355	0.56104937	0.79905474
Nrg1	19.079587	0.24752758	0.43001757	0.57562202	0.56487069	0.80125038
Ptgs2os	1.08098114	0.24745461	0.23547377	1.05087973	0.29331383	NA
Bcan	200.597406	0.24733031	0.32371248	0.76404316	0.44484152	0.71820292
Rpa3	4114.01335	0.24726448	0.19319498	1.27987012	0.20059082	0.48436526
Gpn3	5324.2861	0.24704594	0.15528869	1.5908817	0.1116362	0.35343131
Col9a3	262.417092	0.24704339	0.30130264	0.81991779	0.41226297	0.69481971
Tuba1a	7367.61005	0.24699415	0.22862707	1.0803364	0.27999241	0.5723512
Gm5535	22.7762293	0.24695893	0.42023776	0.58766477	0.55675732	0.79571116
Gpr1	5.35709782	0.24669836	0.36007721	0.68512629	0.49326423	NA
Gpaa1	2231.73334	0.24656988	0.20662393	1.19332685	0.23274139	0.52452319
Apip	1490.93568	0.24655096	0.18842748	1.30846604	0.19071529	0.47286566
Rchy1	3313.43889	0.24633498	0.1508114	1.63339759	0.1023854	0.33618991

Trip12	59663.9932	0.24625526	0.1824601	1.34963897	0.17713182	0.45462566
A430105119R	112.688762	0.2462409	0.38353367	0.64203203	0.52085239	0.76986886
H1fx	1120.47356	0.2461402	0.25380053	0.96981751	0.33213747	0.62548022
Nlgn3	15.9091246	0.2460318	0.42357047	0.58085212	0.56134013	0.79905798
Rapgef3	677.421375	0.24588458	0.43022592	0.57152434	0.56764427	0.80306738
Cryba1	8.41643558	0.24580573	0.42375526	0.58006533	0.56187056	0.79905798
Rdh10	362.879266	0.24563856	0.2308533	1.0640461	0.28730782	0.58077783
2-Mar	1550.60364	0.24555724	0.2216646	1.10778735	0.26795366	0.56067606
Dock5	8840.9783	0.24552522	0.28151445	0.87215853	0.3831219	0.67230069
2610016A17f	2.53876348	0.2454931	0.33572763	0.73122697	0.46464053	NA
Tmem229b	935.057138	0.24548376	0.33976405	0.72251246	0.46997947	0.73765956
Mir6955	2.82056033	0.24531237	0.35760106	0.68599451	0.49271657	NA
Fyn	1377.20338	0.2450175	0.29636383	0.82674565	0.40838124	0.69198369
Timm8b	4743.274	0.24497884	0.19983895	1.22588136	0.22024332	0.50877701
Apex1	19231.9501	0.24495374	0.20529824	1.19316043	0.23280655	0.52452319
4833418N02l	4.95372386	0.24491543	0.37604253	0.65129717	0.51485467	NA
Klhdcl10	4980.55852	0.24491296	0.16745561	1.46255454	0.14358931	0.40525542
Ccl7	4.785453	0.24488416	0.25171135	0.9728769	NA	NA
Mos	7.7470337	0.2448281	0.41175817	0.59459196	0.55211625	0.79179683
En2	1093.14958	0.24450054	0.22803515	1.07220548	0.28362775	0.57603436
Tekt2	154.883138	0.24444052	0.30510137	0.80117805	0.42302858	0.70208297
Wfdc13	3.8549613	0.24438827	0.34599266	0.70633947	0.47997705	NA
Naa50	31208.4531	0.24429749	0.22345318	1.09328266	0.27426971	0.56699234
Scgn	4.93223391	0.24429618	0.33411318	0.73117794	0.46467047	NA
Rhpn1	164.972932	0.24428839	0.33890752	0.72081134	0.4710256	0.73829186
Endou	5.81172839	0.24426442	0.37576707	0.65004211	0.51566502	NA
Ppme1	4001.27417	0.24423731	0.18258948	1.33763078	0.18101682	0.45966568
Slc27a5	66.0540836	0.24421091	0.35406935	0.68972621	0.49036638	0.75122526
Epha3	3.28984619	0.24404069	0.30012645	0.81312622	0.4161457	NA
1700008J07R	93.2123686	0.24403489	0.34485415	0.70764667	0.4791647	0.7432908
Hspb1	12265.2181	0.24393693	0.29610601	0.82381619	0.410044	0.69303275
Setd1b	1099.76977	0.24383379	0.30975773	0.78717579	0.43117897	0.70688509
Mllt11	1041.20136	0.24374034	0.21659678	1.12531839	0.26045414	0.5523497
Slc5a2	8.80614487	0.24372511	0.42892877	0.56821816	0.56988684	0.80449796
Ucp1	7.33626326	0.24362665	0.39365776	0.61887933	0.53599586	0.78060232
Trib1	1138.77212	0.24356839	0.27747487	0.87780344	0.3800504	0.66894892
Ccdc181	663.631578	0.24350979	0.26618863	0.9148016	0.36029579	0.65127023
Slc45a1	31.3587636	0.24349811	0.42455975	0.57353083	0.56628533	0.80232354
Ly6k	231.563669	0.24344189	0.39724855	0.61282008	0.53999531	0.78381188
Fam117a	2810.16721	0.24343283	0.20826778	1.16884535	0.24246594	0.53472044
Ciapin1	8928.33838	0.24338505	0.25828872	0.94229841	0.34603988	0.63804944

A330076C08I	2.9228836	0.24335062	0.32127242	0.7574588	0.44877504	NA
Gm11564	1.44098624	0.24334723	0.26304664	0.92511058	0.35490839	NA
Pla2g4b	4.48729294	0.2432302	0.38785056	0.6271235	0.53057828	NA
2410016O06I	1994.91299	0.24322817	0.1795652	1.35453959	0.17556429	0.45314528
Gnptg	1160.8006	0.24319537	0.20608265	1.18008657	0.23796578	0.52998296
Gm16432	1.56403215	0.2431734	0.30258446	0.80365464	0.42159646	NA
Chrn4	126.165825	0.24313934	0.33228502	0.73171922	0.46433996	0.73391104
Sncb	30.2373426	0.24288616	0.4315417	0.56283358	0.57354821	0.80644198
Znhit2	623.168709	0.24280608	0.23419954	1.03674873	0.29985297	0.59469629
Zscan4b	6.46929318	0.24275099	0.36288129	0.66895428	0.50352464	0.75979694
Prr24	133.626895	0.24267903	0.27967207	0.8677271	0.38554375	0.67464733
Hoxd3os1	1.90185364	0.24248755	0.28971079	0.83699867	0.40259332	NA
Fam83a	11.2269852	0.24225505	0.43194384	0.56084848	0.57490083	0.80673793
Ranbp9	3978.55197	0.24215601	0.19017523	1.27333094	0.20290063	0.48733798
Sdhaf2	2426.28618	0.24208795	0.16189652	1.49532525	0.13482958	0.39242882
Ermap	4.94871325	0.24203535	0.37456188	0.64618256	0.51816113	NA
Cox5a	27073.7545	0.24194672	0.20648787	1.17172367	0.24130802	0.53389786
Srr	367.988383	0.24188055	0.25307768	0.95575616	0.33919544	0.63270101
Reep3	1960.38873	0.2418619	0.2140404	1.12998245	0.25848362	0.55101833
Zfp579	94.3572252	0.24184041	0.36366249	0.66501336	0.50604195	0.76151896
Lrrc23	12.4509183	0.24182471	0.43208569	0.55966841	0.57570564	0.80714793
Clk1	9964.98246	0.24178903	0.20115228	1.20201981	0.22935585	0.52030092
Brf2	931.099529	0.24168628	0.21595146	1.11916946	0.26306785	0.55523455
2610528J11R	16.0402693	0.24164389	0.39868378	0.60610414	0.5444456	0.78623679
Styx1	5.01450713	0.24162309	0.39652419	0.6093527	0.54229068	NA
Rasef	3.56968002	0.24142405	0.37033899	0.65190016	0.51446558	NA
Prpf6	11066.4633	0.24138356	0.1823985	1.32338567	0.18570715	0.46639728
Gtf2f1	8974.84818	0.24104233	0.17576589	1.37138286	0.17025564	0.44577531
Srd5a2	2.68189234	0.24102787	0.36294409	0.66409089	0.50663214	NA
Adam25	3.61119077	0.24098595	0.23125184	1.04209313	NA	NA
Zdhhc12	2891.97858	0.2409274	0.21628592	1.11393009	0.26530918	0.55724244
Ankrd44	398.372442	0.24082122	0.39022881	0.61712824	0.53715014	0.78111295
Cep19	1425.68608	0.24071769	0.17940396	1.3417635	0.17967269	0.45797246
Susd3	54.9220098	0.24070434	0.38468065	0.6257251	0.53149527	0.7782358
Bmpr2	1749.45319	0.24070179	0.27412263	0.87808067	0.37989994	0.66890318
Ovgp1	125.989639	0.24067662	0.32438154	0.74195534	0.45811439	0.72881196
Nomo1	10865.3395	0.24058113	0.18972701	1.2680384	0.20478424	0.49017049
Rerg	661.673444	0.24052467	0.31719329	0.75829053	0.44827707	0.72108696
Ppa2	3863.02504	0.24050337	0.19704881	1.22052684	0.22226522	0.51090346
Tnn	2.06457602	0.24049713	0.31674041	0.7592878	0.44768042	NA
9430016H08I	1792.29828	0.24037806	0.19343863	1.242658	0.21399389	0.50087582

H2-Eb1	1666.17814	0.24034633	0.43201835	0.55633362	0.57798281	0.80768356
Becn2	4.67302687	0.24032271	0.38310177	0.62730776	0.53045752	NA
Fem1a	2095.66374	0.24026336	0.19315825	1.243868	0.21354815	0.50028431
B4galt7	838.765132	0.24025968	0.18402595	1.30557502	0.19169712	0.47424147
Pgm2	4524.00313	0.23998395	0.43043255	0.55754136	0.57715761	0.80734073
4632427E13F	17.0453503	0.23976921	0.42627867	0.56247058	0.57379545	0.80652888
Tcp11l1	171.626537	0.23963829	0.25496867	0.93987347	0.34728247	0.63972138
Ckm	21.6055393	0.23962648	0.42907601	0.55847094	0.57652284	0.80734073
Glrx2	1333.00666	0.23952968	0.20464121	1.17048608	0.24180541	0.53421167
Tlcd1	1258.27116	0.23940112	0.22921271	1.04444958	0.29627744	0.59107253
Tmcc1	1688.35779	0.23920709	0.19064663	1.25471445	0.20958244	0.49577373
Spta1	181.041522	0.23918853	0.41753664	0.57285638	0.56674194	0.80244906
Sirt2	1421.61508	0.23914095	0.23552205	1.01536543	0.30993167	0.60466031
Ift20	1508.955	0.23909342	0.21384818	1.11805215	0.26354472	0.55541671
Nedd4l	3011.05353	0.23901503	0.24246712	0.98576265	0.3242496	0.618534
Snx3	11039.7057	0.2389819	0.15596828	1.53224678	0.12546155	0.37863766
Krt222	30.8891746	0.23892045	0.42645765	0.56024428	0.57531283	0.80709877
Tcf7l1	5839.06981	0.23888814	0.21180026	1.12789353	0.25936489	0.55144791
4930459C07F	1.09353097	0.23888368	0.23185929	1.03029594	0.3028711	NA
Rnf41	2180.6521	0.23883349	0.22117283	1.07985001	0.28020898	0.57238012
Dnajc25	513.697209	0.23875907	0.21453118	1.11293414	0.26573671	0.55776375
Chsy3	30.9777776	0.2387069	0.4198963	0.56849012	0.56970221	0.8044622
Atoh8	5.76147455	0.23864903	0.41480103	0.57533375	0.5650656	NA
Them4	412.637407	0.238523	0.29119882	0.81910703	0.41272535	0.69515344
Uts2r	6.16689891	0.23830324	0.41783965	0.57032223	0.56845917	0.80350014
Tmem158	255.659127	0.23829043	0.38346621	0.62141179	0.53432871	0.77984269
Hdx	216.254644	0.23823699	0.31546093	0.75520284	0.45012728	0.72275987
Tmem37	268.229875	0.23821457	0.28511629	0.83549967	0.40343643	0.68784563
Cabyr	19.668773	0.23808698	0.42702759	0.55754473	0.57715531	0.80734073
Ap2a2	10692.9097	0.23797568	0.17171881	1.38584518	0.16579418	0.43945208
Rnls	77.1219329	0.23793116	0.32101011	0.74119521	0.45857509	0.72916661
Ralbp1	11899.8687	0.23790732	0.17588656	1.35261799	0.1761777	0.45380054
Snord89	7.14661825	0.23767358	0.42339326	0.5613542	0.5745561	0.806724
Zfp410	2924.9762	0.23741994	0.14769589	1.6074918	0.10794653	0.34704909
Snrpb2	10015.1199	0.23737632	0.17824167	1.33176675	0.18293685	0.46301256
Pigh	1224.03981	0.23736569	0.19523155	1.21581624	0.22405493	0.51323805
Mbd5	709.461118	0.23734896	0.26561927	0.89356829	0.37155292	0.66164325
Gchfr	46.1991898	0.23730529	0.36836935	0.64420476	0.51944266	0.76946589
Npas1	4.17054582	0.23721491	0.40109838	0.59141328	0.55424354	NA
Bak1	4850.67855	0.23721089	0.18825459	1.26005368	0.20765	0.49330356
Emb	5024.28421	0.23717233	0.3642514	0.65112263	0.51496733	0.76651865

Arhgef10l	3037.55802	0.23685056	0.16670914	1.42074127	0.15539199	0.4238164
Ccdc87	27.1411058	0.2368392	0.41755119	0.56720998	0.57057153	0.80487644
Nphp4	588.60438	0.23681812	0.24800118	0.95490725	0.3396246	0.63312181
Rsph4a	53.6731759	0.23673196	0.42521343	0.5567368	0.57770727	0.80754389
Fam120c	637.432082	0.23657844	0.35602647	0.66449677	0.50637241	0.7617875
Rnf111	4974.63983	0.23639502	0.25380158	0.93141667	0.35163807	0.64386244
Nxpe5	2.08102654	0.23638684	0.30979649	0.76303911	0.44544007	NA
Fam110c	12.8724524	0.23637756	0.43206965	0.54708208	0.58432234	0.81148483
Mmp13	2.97270188	0.2363755	0.26193802	0.90241004	0.36683909	NA
Glrx5	1920.43756	0.23613019	0.2080289	1.13508359	0.2563403	0.54923505
1700007G11l	2.37361157	0.23608343	0.33438221	0.70602867	0.48017031	NA
Kcp	211.669587	0.2360606	0.25738444	0.91715179	0.35906311	0.65010948
Nmrk1	1342.97565	0.23605541	0.2311493	1.02122489	0.3071479	0.60163387
Pde4a	1208.35255	0.23592088	0.1834051	1.28633761	0.19832526	0.48126148
Dcbld2	5901.96228	0.23572118	0.19602463	1.20250792	0.2291668	0.52010696
Slc26a6	636.864849	0.2356988	0.21085417	1.11782847	0.26364026	0.55541671
Faim	1996.38162	0.23560716	0.18313633	1.2865124	0.19826429	0.48122491
Itsn1	5551.32015	0.23557415	0.22704145	1.0375821	0.29946466	0.59422928
Gpr160	1510.39822	0.2354334	0.19608656	1.20066053	0.22988291	0.52104783
Chtop	15755.1014	0.23538044	0.17293458	1.36109528	0.17348358	0.45091813
Anxa10	4.75818665	0.23534534	0.39987214	0.58855147	0.5561622	NA
Rit1	812.813808	0.23533981	0.20500926	1.14794722	0.25099035	0.54460039
Ano3	467.633659	0.23531009	0.3550244	0.66279976	0.5074588	0.76268405
Card11	120.875735	0.23525809	0.35115229	0.6699603	0.5028831	0.75933521
Cfb	22.2532706	0.23521897	0.43004222	0.54696715	0.5844013	0.81150323
Hmga1	76.9106524	0.23520584	0.34762051	0.67661672	0.49864917	0.75683128
Erp29	7848.79906	0.23514012	0.19661066	1.19596833	0.23170892	0.52302118
Zfp719	1222.61421	0.23505483	0.19372329	1.21335345	0.22499472	0.51439387
Angptl1	1.43406714	0.23503094	0.26714706	0.87978112	0.3789779	NA
Lancl3	12.9583463	0.23494413	0.40845537	0.57520148	0.56515504	0.80130617
Gipc2	107.337147	0.23491557	0.42923225	0.54729244	0.58417784	0.81141028
Med21	3589.11636	0.23484153	0.19732159	1.19014616	0.23398895	0.52565461
Gm2016	33.7397581	0.23482397	0.43052816	0.54543231	0.58545622	0.81209791
Slc12a9	704.213971	0.23475178	0.21158798	1.10947599	0.2672249	0.55978401
1600020E01F	849.519739	0.234695	0.23138489	1.01430564	0.31043693	0.604963
Pcdh7	3.44704574	0.23454303	0.22861471	1.02593145	NA	NA
Ppp1r9b	3845.06571	0.2344334	0.19352971	1.21135614	0.22575894	0.51545695
Sema3a	6.59668064	0.23425961	0.35827351	0.65385691	0.513204	0.76591511
Lrrc19	3.41774581	0.23425902	0.34444697	0.68010184	0.49643998	NA
Zpbbp2	3.04251147	0.23423746	0.3750535	0.62454412	0.53227031	NA
Twf1	11863.2616	0.23410839	0.16413051	1.4263551	0.15376587	0.42158198

Rpp25l	1772.21834	0.23406399	0.22921498	1.02115486	0.30718108	0.60163387
Tchp	1300.38854	0.23373915	0.16056855	1.45569694	0.14547642	0.4089048
Cox6a1	14247.5781	0.23372523	0.23933651	0.97655487	0.32878957	0.62222868
4930469G21f	3.51733508	0.23356065	0.30085733	0.77631697	0.43756186	NA
Dlx6	10.3445488	0.23352946	0.42793924	0.54570705	0.58526732	0.81209791
Spint4	1.89741258	0.23352094	0.33043466	0.70670838	0.47974772	NA
Itih3	5.53152085	0.23333498	0.37668896	0.61943675	0.53562868	NA
E230016M11	47.7291806	0.23325569	0.37713245	0.61849807	0.53624707	0.78076585
Tex19.2	191.461077	0.23317347	0.35890367	0.64968261	0.51589726	0.76711938
Dock4	1048.63325	0.23286955	0.35583116	0.65443832	0.51282945	0.76557654
Glmn	1878.93272	0.23274347	0.22779904	1.02170524	0.30692043	0.60142636
Wfs1	2470.97234	0.23273147	0.22022482	1.05679038	0.29060727	0.58458789
Tceb2	10483.2938	0.23265136	0.20663231	1.12591956	0.26019957	0.55228465
1110020A21f	25.0417014	0.23256918	0.41108963	0.56573838	0.57157164	0.80538015
Mex3a	5351.774	0.23236693	0.2026656	1.14655341	0.25156624	0.5450894
AF357399	52.2747605	0.23236013	0.33934476	0.68473175	0.49351321	0.75389233
Trmt6	5661.12421	0.23228234	0.17326716	1.34060225	0.18004963	0.45863256
Trem1	1.04333165	0.23224121	0.22909784	1.01372061	0.31071609	NA
Hypk	8029.9725	0.23221347	0.22407107	1.03633849	0.30004425	0.59492391
Gt(ROSA)26S	559.768213	0.23215597	0.28797751	0.80616008	0.42015055	0.7004461
Tex261	2149.84495	0.23215162	0.18629421	1.24615589	0.21270717	0.49936733
2210016L21f	1865.10035	0.23208677	0.17351915	1.33752828	0.18105026	0.45967552
Magix	10.9677235	0.23203237	0.43211893	0.53696414	0.59129239	0.81611679
Tmem45b	10.7489441	0.23191859	0.43087213	0.53825386	0.5904018	0.8154987
Tek	1717.93853	0.23187357	0.27708847	0.83682141	0.40269296	0.68718076
Tmem70	2613.71036	0.23158333	0.20897657	1.10817843	0.26778476	0.56062478
Ass1	10395.3529	0.23124681	0.21141507	1.09380479	0.2740406	0.56692432
Styk1	10.5143476	0.23119134	0.41192604	0.56124478	0.57463068	0.806724
Rab20	32.4521077	0.23108024	0.39835687	0.58008348	0.56185832	0.79905798
Esp24	2.10035472	0.23102499	0.30977514	0.74578286	0.4557986	NA
Anapc7	5000.57257	0.2309307	0.17503551	1.31933626	0.18705672	0.46812344
Fam26d	4.15431213	0.23089459	0.34859707	0.6623538	0.50774451	NA
Tmem251	956.631659	0.23072929	0.19340644	1.19297628	0.23287866	0.52452319
Ulk2	598.323895	0.23066987	0.29974965	0.76954173	0.44157178	0.71556426
Heatr5b	3831.87233	0.23064972	0.22489716	1.02557865	0.30509024	0.59970116
Lgals4	11.5712626	0.2305686	0.43144449	0.53441081	0.59305734	0.81705522
4932413F04f	2.11012279	0.23053648	0.32242439	0.71500944	0.47460321	NA
1810026J23R	3127.40344	0.23045291	0.16768802	1.37429561	0.16934993	0.44440782
Ints9	3820.63236	0.23039268	0.21561485	1.0685381	0.28527785	0.57825285
Psmas8	3022.2114	0.23038963	0.25398323	0.90710566	0.36435093	0.65441876
Gm16677	2.35566765	0.23017092	0.33225474	0.69275435	0.48846372	NA

Trpm5	8.50404388	0.23001767	0.42208851	0.54495128	0.58578702	0.81241184
Add1	14162.7622	0.22995532	0.22232394	1.03432548	0.30098403	0.59564809
Gm4763	1.79843965	0.22979618	0.22719144	1.01146494	0.31179395	NA
2510003E04F	2604.27362	0.2297536	0.18788933	1.22281348	0.22140015	0.5096956
Fam171a2	214.321415	0.22972222	0.26759355	0.85847441	0.39063056	0.67903559
Tmem217	4.50736043	0.22962082	0.371428	0.61821083	0.53643637	NA
Sh2d4b	517.639557	0.229528	0.3689688	0.6220797	0.53388946	0.77957887
Itfg3	2260.22268	0.2294255	0.1611088	1.42404077	0.15443467	0.42289374
Zfyve1	3905.44138	0.22928823	0.16984681	1.3499708	0.17702535	0.45462566
Pex1	2543.85695	0.22917157	0.18523075	1.23722207	0.21600465	0.50300814
Dpt	1.78588982	0.22886602	0.22679949	1.00911171	0.31292106	NA
Ccdc149	7.98610608	0.2287575	0.41285991	0.5540802	0.57952396	0.80819901
Gm13939	25.5312137	0.22868142	0.40448163	0.56536911	0.57182273	0.80538015
Anapc10	4153.95096	0.22854676	0.30723191	0.74389006	0.45694299	0.72746933
Mrps12	2778.25265	0.22849218	0.23285473	0.98126491	0.32646212	0.61957682
Gfer	3877.56801	0.22848041	0.18508012	1.23449458	0.21701867	0.50454989
Ndufa3	3830.38637	0.22823191	0.22246718	1.02591271	0.30493273	0.59964705
Frmd4a	3502.15978	0.22816853	0.23612859	0.9662893	0.33389944	0.62718213
4930524B15F	29.1380797	0.22815121	0.42808514	0.53295756	0.59406296	0.81761864
Coro2b	1717.28554	0.22811927	0.3552786	0.64208558	0.52081762	0.76986886
Cklf	636.524176	0.22810659	0.24088794	0.94694069	0.343669	0.63699603
Phtf2	4483.99317	0.22803577	0.20450028	1.11508783	0.26481279	0.5564253
Naif1	299.98883	0.22800914	0.27969859	0.8151959	0.41496019	0.69724969
Zfp572	2.86676306	0.22778076	0.32939788	0.69150646	0.48924732	NA
Smpdl3a	43.6276257	0.22774703	0.40689613	0.55971786	0.57567189	0.80714793
1700061G19I	5405.39031	0.22764516	0.27409315	0.83053939	0.40623388	0.69004294
Chgb	12.4587527	0.22759048	0.43043379	0.52874677	0.59698113	0.81955304
Nkx2-9	34.5656949	0.22749849	0.42054702	0.54095852	0.58853617	0.81419144
1600016N20I	407.990019	0.22743964	0.29060772	0.78263454	0.43384175	0.70858066
Sdf2l1	2447.31387	0.22728854	0.20616464	1.10246129	0.27026118	0.56345778
Tmem176b	12.3882457	0.22726088	0.39529646	0.57491252	0.56535046	0.80151017
Frk	108.29286	0.2272038	0.35669206	0.63697465	0.52414135	0.77186763
C630043F03F	90.6771525	0.22717116	0.32240857	0.70460645	0.48105518	0.7445399
Olf815	1.26968547	0.2270613	0.26027622	0.87238587	0.38299791	NA
Prss44	9.52766461	0.22687952	0.41963163	0.54066353	0.58873952	0.8143171
Rnpep	3984.09859	0.22680972	0.28296403	0.80154966	0.42281351	0.70197732
Tmem164	2091.05813	0.22670282	0.19287947	1.17536003	0.23985071	0.53178192
Ecm2	5.00912559	0.22665746	0.39752576	0.57017051	0.56856206	NA
Zar1l	1.89293625	0.22662176	0.28195419	0.80375384	0.42153915	NA
Gsg1	6.74123513	0.22662164	0.416295	0.54437751	0.58618172	0.8126129
Atp11a	3145.76892	0.22656532	0.24014506	0.94345193	0.34544979	0.63779826

Gm9958	62.8451098	0.22653016	0.40796465	0.55526911	0.57871061	0.80792967
Dtx4	102.492022	0.22644717	0.32133207	0.70471387	0.48098832	0.7445399
4930478L05F	1.58233364	0.22644048	0.22590018	1.00239174	0.31615443	NA
4921509C19F	2.27234319	0.22609435	0.34758808	0.65046637	0.51539102	NA
Chst10	323.108233	0.2260136	0.28612277	0.78991827	0.4295755	0.70542013
Mrpl13	4739.12206	0.22583809	0.1885282	1.19790081	0.23095564	0.52264131
Zfp959	492.451854	0.22580607	0.20427658	1.10539383	0.26898897	0.56201096
Chrna3	1.57796624	0.2257924	0.29710453	0.7599763	0.44726875	NA
Chst7	52.3810348	0.22578788	0.42936819	0.52586074	0.59898497	0.8200579
Cthrc1	47.5593342	0.22560273	0.41992876	0.53724048	0.59110151	0.81607063
Pcmt1	3485.19663	0.22558401	0.15238114	1.48039324	0.13876833	0.39807902
Sntb1	279.422033	0.22553017	0.32050745	0.70366593	0.48164084	0.74482882
Synj1	2198.39558	0.22552797	0.25824205	0.87332008	0.38248864	0.67137416
Ripply2	3.66503617	0.2252512	0.36095374	0.62404451	0.53259836	NA
Pthr2	2496.22145	0.2251656	0.24271633	0.92769036	0.35356821	0.64520848
Urm1	3328.87756	0.22510681	0.22968617	0.98006256	0.32705524	0.62039456
Fgf12	1.25537398	0.22508268	0.25969843	0.86670789	0.38610208	NA
Il3	1.25537398	0.22508268	0.25969843	0.86670789	0.38610208	NA
1810014B01F	282.159177	0.22486875	0.2669456	0.8423767	0.39957713	0.68486983
Abcb1a	3033.21899	0.22482467	0.20550079	1.09403308	0.27394047	0.56683453
Galc	984.733099	0.22480378	0.2754942	0.81600187	0.41449907	0.69678703
Synpr	29.6300706	0.22477416	0.42485125	0.52906555	0.59675998	0.81955304
Prr3	1173.19557	0.22467856	0.18626619	1.20622301	0.22773152	0.51813501
Vmp1	4781.59227	0.22460394	0.19371538	1.15945334	0.24627145	0.53945517
Six1	1100.20002	0.22444986	0.24770682	0.90611096	0.36487713	0.6548418
Tpcn2	676.558256	0.22439438	0.30335825	0.73970094	0.45948148	0.73001598
Mir1839	8.21388019	0.22433997	0.42574339	0.52693707	0.59823729	0.81984777
Pex16	754.317243	0.22431907	0.21504531	1.0431247	0.29689054	0.59123381
Oraov1	900.354332	0.22408371	0.19092043	1.17370206	0.24051439	0.53277151
Gabra5	44.9975732	0.22391999	0.41306317	0.54209624	0.58775221	0.81353146
Kif1b	5887.39401	0.22391362	0.22139664	1.01136861	0.31184004	0.60634544
Epha8	1.56365476	0.2237182	0.29675986	0.75386948	0.4509276	NA
Sult2a4	1.73702091	0.22371301	0.24762944	0.90341846	0.36630384	NA
Scn10a	0.95085316	0.2234459	0.22544547	0.99113059	0.32162182	NA
Fam187b	3.21944298	0.22317747	0.36268553	0.61534703	0.53832557	NA
Entpd4	1795.91029	0.22312112	0.19798336	1.12696906	0.25975556	0.55183863
Pop5	2945.38235	0.22310689	0.18253481	1.22227038	0.2216054	0.50979956
1810011O10I	10.1848545	0.22306684	0.42179864	0.52884674	0.59691177	0.81955304
Tdrd1	15.256002	0.22304858	0.43195997	0.516364	0.60560021	0.82418428
Mtfr2	1467.49787	0.22288885	0.17152913	1.29942275	0.19379889	0.47646674
Ormdl2	4029.34166	0.22286856	0.17270837	1.29043289	0.1969004	0.48016279

Cpeb1	495.279598	0.22277164	0.34227237	0.6508607	0.51513641	0.76651865
4833427G06l	2.29204876	0.22274036	0.34412774	0.64726071	0.51746323	NA
Hddc2	2426.31145	0.2224422	0.2201079	1.01060528	0.31220539	0.60664161
Esrrg	0.94369742	0.22234707	0.22497867	0.98830292	0.32300432	NA
Tmco2	0.94369742	0.22234707	0.22497867	0.98830292	0.32300432	NA
Samd3	0.94369742	0.22234707	0.22497867	0.98830292	0.32300432	NA
Thrb	75.6251374	0.22197309	0.42265659	0.52518545	0.59945428	0.8202282
Tpsb2	4.00230184	0.22181246	0.3660541	0.60595539	0.54454437	NA
Pak2	9547.85553	0.22175804	0.17295099	1.28220161	0.19977193	0.48279318
Me2	7406.70157	0.22155913	0.16554032	1.33839984	0.18076613	0.45940417
Orm2	0.93830333	0.22155284	0.22462242	0.98633449	0.323969	NA
Tmem180	2281.67906	0.22150899	0.19238704	1.15137167	0.24957937	0.54310658
Me1	4982.28134	0.22141133	0.23197123	0.95447755	0.33984197	0.63329927
Wdyhvj1	1353.02801	0.22113795	0.1853349	1.19318032	0.23279876	0.52452319
4930549G23l	2.80151003	0.2210753	0.3475264	0.6361396	0.52468544	NA
Kdm8	471.925009	0.22086357	0.22102171	0.99928452	0.31765688	0.61159656
Gpr35	5.03097921	0.2208469	0.38974692	0.5666418	0.57095757	NA
Hcn1	5.39904763	0.22083897	0.32995583	0.66929857	0.50330504	NA
Fbxo41	244.039406	0.22081783	0.31415942	0.70288466	0.48212763	0.74506279
Klrb1a	3.93972822	0.22079284	0.35039222	0.63013055	0.52860917	NA
Slc10a3-ubl4	4.13289633	0.22069741	0.39555277	0.55794682	0.5768807	NA
Mrps6	1142.4471	0.2206711	0.20353138	1.08421168	0.27827095	0.5707454
Mettl5	2782.51204	0.22064124	0.23868296	0.92441137	0.35527218	0.64696432
Rqcd1	11718.3754	0.22060782	0.16040405	1.37532577	0.16903047	0.44394407
Pcdhgb7	41.63599	0.22059068	0.40322764	0.54706238	0.58433587	0.81148483
Il18r1	1.96265834	0.22054544	0.24593536	0.89676183	0.36984602	NA
Supt3	840.291134	0.22043825	0.2095099	1.05216151	0.29272545	0.58651459
Hdgfrp2	8770.9853	0.22040502	0.19030494	1.15816761	0.24679565	0.53964777
Stx7	2503.32119	0.22039299	0.2087659	1.05569437	0.29110787	0.58481055
LOC1026341l	12.4968916	0.22014751	0.43211925	0.50946009	0.61042976	0.82628285
Magee2	121.401585	0.22005875	0.33808635	0.6508951	0.5151142	0.76651865
Ptplad1	5130.59722	0.21980725	0.14518656	1.51396412	0.13003494	0.38569013
Mapk11	203.400842	0.21976313	0.27652136	0.79474196	0.42676362	0.70402942
Disp2	8.19949145	0.21974367	0.42233214	0.52031007	0.60284748	0.82248755
Xrcc4	967.231649	0.21958164	0.2408966	0.9115182	0.3620224	0.65273163
Hsd17b4	5507.06634	0.21955476	0.21266809	1.03238224	0.30189309	0.59705597
Gm15663	0.92399185	0.21941622	0.22368779	0.98090387	0.32664015	NA
Rtp1	0.92399185	0.21941622	0.22368779	0.98090387	0.32664015	NA
4921517D22l	0.92399185	0.21941622	0.22368779	0.98090387	0.32664015	NA
Ldoc1l	270.816188	0.21936165	0.34385664	0.63794507	0.52350944	0.77157293
2210011C24f	476.202284	0.21928962	0.34143972	0.64224988	0.52071095	0.76986886

Tacr1	2.59656959	0.2191254	0.36004379	0.60860764	0.54278454	NA
Atxn10	17707.1179	0.21884147	0.15207633	1.43902387	0.15014376	0.41633446
Por	3212.70727	0.21881309	0.17569328	1.24542665	0.21297496	0.4996189
Cdh8	1.63054124	0.21873573	0.29558504	0.74000948	0.45929424	NA
Galnt7	3254.81603	0.21871194	0.29726421	0.73574933	0.46188326	0.73203695
Al450353	223.286475	0.21870339	0.27381656	0.79872227	0.42445147	0.70293777
Gm8787	6.72304881	0.21866145	0.38948809	0.56140728	0.57451993	0.806724
Adm2	149.340136	0.21863443	0.36413346	0.60042389	0.54822377	0.78882606
Ufsp1	280.614447	0.21862573	0.27565885	0.79310253	0.42771809	0.70467677
Ptgfr	1.27684121	0.21835348	0.25565877	0.85408174	0.3930597	NA
Trafd1	1265.8707	0.21831075	0.19536193	1.11746823	0.26379418	0.55548588
Gtf3c5	2152.35313	0.218307	0.2267876	0.96260556	0.33574551	0.62836064
Sh3rf1	1270.74843	0.21827102	0.23317076	0.93609942	0.349222	0.64162941
Tdpoz3	7.43569891	0.21810998	0.36600853	0.59591501	0.55123201	0.7910861
6820408C15f	18.1998448	0.21808133	0.43140804	0.50551058	0.61320027	0.82831257
Rgl2	2789.54678	0.21800768	0.19957075	1.09238294	0.27466482	0.56715903
Prkaca	5748.05257	0.21776821	0.17418096	1.25024119	0.21121145	0.4978306
AW822252	7.71182982	0.21775948	0.39451889	0.55196211	0.58097432	0.80898385
Sfmbt1	1624.47211	0.21766007	0.20610244	1.05607712	0.29093298	0.58476633
Dio1	6.87672309	0.21765822	0.39260996	0.55438794	0.57931338	0.80819076
Ccdc62	109.032389	0.217575	0.31178028	0.69784722	0.48527274	0.74769409
Gm839	0.91144202	0.21745078	0.22282157	0.97589646	0.32911578	NA
Defb42	219.818628	0.21744331	0.42060661	0.51697551	0.60517326	0.82379634
Gm805	96.3219124	0.21740109	0.31109569	0.69882385	0.48466212	0.74712338
5-Mar	8156.54123	0.21734031	0.14810847	1.4674401	0.14225637	0.40302949
Actn4	25673.9113	0.21720386	0.21108039	1.02901015	0.3034749	0.59850576
Ncdn	2168.87796	0.21719628	0.23919343	0.90803614	0.36385913	0.65400074
Mettl7a1	498.231622	0.21719309	0.22819816	0.95177404	0.34121159	0.63465908
Gm7444	2.40824265	0.21706921	0.326144	0.66556247	0.5056908	NA
9430083A17f	15.5864645	0.21706465	0.43220302	0.50222845	0.61550683	0.82965647
Pawr	5615.5229	0.21703272	0.16340298	1.32820541	0.18411026	0.4644599
Tigd2	2656.76224	0.21701982	0.17419503	1.24584389	0.21282171	0.49948543
Mrps34	1911.57311	0.21698115	0.21665143	1.00152189	0.31657456	0.61108396
Hsd11b1	0.9580089	0.21686018	0.22246614	0.97480083	0.32965906	NA
Lamp1	43440.9909	0.21685019	0.16485865	1.3153704	0.18838545	0.46953748
Mknk2	5441.74389	0.21667075	0.17285965	1.25344891	0.21004238	0.49648412
Orm1	1.9108065	0.21654019	0.24465493	0.8850841	0.37611128	NA
Rpp25	8881.608	0.21651621	0.21040052	1.0290669	0.30344824	0.59850576
Nr3c2	86.9649438	0.21649529	0.38042187	0.56909265	0.56929327	0.80418512
Klra7	1.27168376	0.21647647	0.26380787	0.8205838	0.41188338	NA
Adam22	1369.99619	0.21641305	0.27782351	0.77895875	0.43600402	0.7099789

Nupl2	929.097043	0.21640036	0.18278864	1.18388298	0.23645939	0.52810283
Pigp	1187.10981	0.21634066	0.25423973	0.85093177	0.39480725	0.68226374
Ulk1	18430.9698	0.21623678	0.23077925	0.93698538	0.34876608	0.64094319
Sgk2	132.38869	0.21596076	0.31967654	0.67556026	0.49931988	0.75708397
Necab2	476.141251	0.21593797	0.35677479	0.60525008	0.54501285	0.78651585
Kdelc2	1691.19382	0.21593019	0.28771223	0.75050751	0.4529491	0.72429938
Zkscan16	83.4471069	0.21578384	0.35393435	0.60967194	0.54207915	0.78505055
Stau1	4019.03993	0.21571441	0.17947142	1.20194295	0.22938563	0.52030092
Epb4.1	6686.66861	0.21560676	0.17013904	1.26723859	0.20506999	0.4903111
Rab21	2504.99148	0.21557344	0.20414704	1.05597144	0.29098126	0.58476633
Ttc19	1578.77925	0.21550695	0.21330346	1.01033032	0.31233706	0.60676497
Kirrel2	1195.34009	0.21548481	0.43227197	0.49849359	0.61813619	0.83039356
Eny2	3745.56041	0.21543818	0.19878302	1.08378563	0.27845986	0.57075699
Dnmt3b	5299.30935	0.21542739	0.31337254	0.68744821	0.49180033	0.75201444
Nudt16l1	3633.35854	0.21537255	0.19064583	1.12969977	0.25860275	0.55112352
Lrit3	2.74888721	0.21533312	0.26930503	0.79958819	0.42394943	NA
Sertad1	811.004359	0.21532919	0.21622241	0.99586898	0.31931381	0.61303091
Slfn5	70.5062909	0.21513416	0.38606499	0.55724857	0.57735761	0.80734073
Lnx2	1200.64137	0.21502459	0.23211267	0.92638023	0.35424842	0.6457528
Efcab8	8.8380222	0.21497067	0.43097938	0.49879573	0.61792329	0.83032275
Klk7	13.2374935	0.21494842	0.42966568	0.500269	0.61688568	0.83032065
Nlrc5	29.6609369	0.21475369	0.41973938	0.51163579	0.60890593	0.82562526
Snx14	3472.99549	0.21471244	0.16864214	1.27318379	0.20295283	0.48733798
Txndc12	4788.4084	0.21468445	0.24718969	0.86850083	0.38512022	0.67428558
Tuba3a	7702.88559	0.21463659	0.29658845	0.72368493	0.46925919	0.73704055
Ube2u	1.73770861	0.21459651	0.28252221	0.75957396	0.44750929	NA
Lime1	1231.47014	0.21450303	0.16907861	1.26865864	0.20456284	0.4898609
Soat1	1371.30661	0.21440617	0.23060064	0.92977264	0.35248882	0.64439796
Lrrc57	2317.24414	0.21433108	0.17158824	1.24910122	0.21162806	0.49812885
Osbp19	7218.15653	0.21430572	0.1600724	1.33880495	0.18063418	0.45932388
Lpin2	1736.49967	0.21428337	0.25139491	0.85237753	0.39400459	0.68155343
Kdm6b	4621.12663	0.21423236	0.21554833	0.99389478	0.3202741	0.61412854
Marveld3	81.5555422	0.21421436	0.42165903	0.50802744	0.6114341	0.82681841
0610011F06F	917.423164	0.2142112	0.25642855	0.83536409	0.40351274	0.68790031
Vamp4	1213.6795	0.21414571	0.21403516	1.00051651	0.31706061	0.6115864
Adck4	1416.74063	0.21404538	0.21998558	0.97299732	0.33055463	0.62369343
Sorbs2	3.62502355	0.21388076	0.36255484	0.58992666	0.55523982	NA
Adc	810.61961	0.21382467	0.31396464	0.68104698	0.49584176	0.75559385
Gabrd	6.24355346	0.21379528	0.41441615	0.51589515	0.60592764	0.82418428
Ndufa8	2898.32292	0.21379215	0.17805433	1.20071297	0.22986256	0.52104783
Fgf9	0.93654168	0.21376538	0.22108958	0.96687227	0.33360789	NA

Nrap	13.2980683	0.21370224	0.43013809	0.49682241	0.61931429	0.83094942
Tmx1	6275.62823	0.21368821	0.1922816	1.1113295	0.26642655	0.55868408
Tnfrsf13c	54.5794435	0.21367493	0.40950133	0.52179299	0.60181447	0.82174175
Gm16863	1.66668478	0.21364014	0.27580493	0.77460594	0.43857255	NA
Fosl1	11.989393	0.2135084	0.42750633	0.49942747	0.61747827	0.83032065
Golm1	12157.7766	0.21331752	0.20288312	1.0514306	0.29306087	0.58676317
Cd79a	36.724869	0.21310347	0.39871973	0.53446935	0.59301685	0.81705522
Rfxank	806.242425	0.21308556	0.22566573	0.94425305	0.34504035	0.63773152
Lrrc32	4.82699167	0.2130656	0.35949691	0.59267713	0.55339725	NA
B230216G23I	14.5480353	0.21299328	0.42683544	0.49900563	0.61777542	0.83032275
Tes	3510.88772	0.21297268	0.2691628	0.79124114	0.42880329	0.7048133
Isg20	26.8210864	0.21297119	0.39702825	0.53641319	0.59167302	0.81634852
S1pr3	116.659932	0.21289644	0.39940537	0.5330335	0.59401039	0.81761864
Klhl22	12375.1811	0.212871	0.27232784	0.78167183	0.43440746	0.70860901
Cth	14528.7313	0.21280543	0.1608996	1.32259768	0.18596921	0.46656448
Hdhd2	2071.54248	0.21268783	0.17920769	1.18682312	0.2352974	0.52717329
Foxf1	7.58708697	0.2126652	0.37380391	0.56892183	0.56940919	0.80418512
Ephb6	175.488507	0.21256029	0.30491002	0.69712466	0.48572478	0.74775368
H2afy2	3505.58949	0.21252655	0.16501037	1.28795876	0.19776032	0.48093412
Mill2	3.32633531	0.21250902	0.37721788	0.56335884	0.57319056	NA
Grhl1	378.331142	0.21242668	0.22261753	0.95422259	0.33997098	0.633415
Tsen15	974.04665	0.21240552	0.17067512	1.24450197	0.21331488	0.5002449
Coa7	2457.65244	0.21219515	0.18567602	1.14282475	0.25311136	0.54607863
Tspyl1	4845.11551	0.21207959	0.17342376	1.22289811	0.22136818	0.5096956
Alx4	1.77643205	0.21193818	0.24130624	0.87829548	0.37978339	NA
Gng8	12.9588269	0.21189347	0.42226622	0.50180066	0.61580775	0.82990514
Kpna4	8830.25816	0.21186337	0.21625861	0.979676	0.32724608	0.62053453
Mfap1a	1821.22606	0.21171246	0.18965255	1.11631748	0.26428626	0.5558447
Birc2	5448.85257	0.21160123	0.16316596	1.29684667	0.19468395	0.4775284
Rad54l2	7389.88811	0.21159412	0.23881833	0.88600451	0.3756151	0.6654252
Angpt1	4.67930325	0.21148978	0.36758281	0.57535274	0.56505276	NA
Vamp5	32.8479568	0.21148087	0.42407324	0.4986895	0.61799814	0.83035157
Asprv1	37.9386124	0.2114717	0.38201119	0.55357463	0.57986999	0.80831465
Grhpr	3763.8374	0.2113872	0.18909602	1.11788288	0.26361702	0.55541671
Fen1	8013.89217	0.21136414	0.15533429	1.36070497	0.17360694	0.45100512
Fbxw13	4.88462834	0.21133184	0.40572098	0.52087974	0.60245055	NA
Fahd2a	640.784402	0.21109743	0.25574229	0.82543028	0.40912735	0.69268726
Snx11	1609.14379	0.21107559	0.19991535	1.05582482	0.29104826	0.58476633
B230217O12	41.824853	0.21107262	0.42281732	0.49920523	0.61763481	0.83032065
Atp1b1	23376.6841	0.21105457	0.20824538	1.01348982	0.31082626	0.60549406
4930404N11I	1.7672846	0.21101002	0.33082457	0.63783057	0.52358398	NA

Snord99	228.237952	0.21091812	0.26538014	0.79477733	0.42674304	0.70402942
Gm4925	7.07632697	0.21075087	0.41929453	0.50263206	0.61522299	0.82953469
Grin3b	4.23040475	0.21069277	0.36683093	0.57435933	0.56572467	NA
Lix1l	809.291871	0.21067915	0.20991779	1.00362694	0.31555847	0.60989929
Cass4	15.6880522	0.21062351	0.43044321	0.48931776	0.62461675	0.83334035
F420014N23f	4.21785492	0.21062045	0.36758212	0.57298883	0.56665226	NA
Clstn3	1726.76167	0.21059426	0.21790114	0.96646699	0.33381056	0.62713382
Ostf1	9885.55408	0.21039669	0.21089529	0.99763583	0.31845598	0.61238106
Ubqln1	13375.9898	0.21033683	0.24789673	0.8484857	0.39616753	0.68293995
Dnm3os	2.78100784	0.21027978	0.23143909	0.90857501	NA	NA
Slc30a6	1557.79837	0.21005557	0.21523013	0.97595802	0.32908527	0.62234394
Wbp1	1823.61676	0.20998281	0.22821167	0.920123	0.35750849	0.64865412
Gm11545	275.527315	0.20994422	0.31798718	0.66022856	0.50910717	0.76389826
Khdrbs1	11045.6118	0.20991056	0.21561612	0.97353835	0.33028581	0.62369343
Pla2g7	44.8831217	0.20976763	0.42327609	0.49558109	0.62019	0.83138912
Fam178b	1463.84359	0.20963768	0.21674004	0.96723097	0.33342859	0.62667971
Snord57	70.5921526	0.20954319	0.36084571	0.58070025	0.56144249	0.79905798
Eif2ak2	2896.54408	0.20944516	0.23817386	0.87937926	0.37919567	0.66834881
Tmed2	1594.3211	0.20937612	0.2127535	0.98412542	0.32505385	0.6188465
Tnfrsf21	3088.4532	0.20926556	0.2135435	0.97996688	0.32710247	0.62039456
Jkamp	2949.2217	0.2092119	0.21239992	0.98499048	0.32462874	0.61877141
Sufu	1747.69505	0.20908215	0.23470441	0.89083179	0.37301942	0.66287567
Rab15	1439.00202	0.20890823	0.27223516	0.76738151	0.44285472	0.7165424
Sohlh1	2.34036475	0.208807	0.31996918	0.65258473	0.51402403	NA
Foxj3	3890.59637	0.20880304	0.20714856	1.00798693	0.31346074	0.60787966
Wdr7	1825.18025	0.20875822	0.23595093	0.8847527	0.37629002	0.66625141
Snord11	5.66533493	0.20823392	0.41713877	0.49919579	0.61764146	NA
Zbtb42	64.1084591	0.20819962	0.34690875	0.60015672	0.5484018	0.78891733
Coa4	824.253657	0.20814602	0.23514138	0.8851952	0.37605136	0.66590466
6430573F11F	63.9016559	0.20814064	0.34101066	0.61036405	0.54162068	0.78492088
Lipg	187.552866	0.20810516	0.34692749	0.59985204	0.54860485	0.78906345
Gm13375	127.352785	0.20805986	0.3465501	0.60037456	0.54825664	0.78882606
4921531P14F	0.89889219	0.20805643	0.21851149	0.95215326	0.34101926	NA
Urad	0.89889219	0.20805643	0.21851149	0.95215326	0.34101926	NA
Ttll2	1.90080837	0.20800544	0.30544388	0.68099395	0.49587532	NA
Snx5	40617.6419	0.20797654	0.15274547	1.36158888	0.17332767	0.45071973
Dalrd3	2396.13467	0.20769085	0.20958943	0.99094144	0.32171418	0.61597847
Psd3	90.2414159	0.20764943	0.33526263	0.61936347	0.53567694	0.7803571
Zfp35	4101.58109	0.20764736	0.17643448	1.1769092	0.23923175	0.53124274
Slc35b4	1952.33841	0.20763682	0.21112542	0.9834762	0.32537313	0.61902113
Prep	12404.1053	0.20754934	0.24150936	0.85938423	0.39012857	0.67839532

Pigl	3484.49391	0.20754402	0.21710625	0.95595599	0.33909447	0.63270101
Bace1	1078.77343	0.20733475	0.26989386	0.76820847	0.44236334	0.7159317
Tmeff2	10.0708231	0.2073259	0.43131003	0.4806888	0.63073769	0.8371257
4930455B14F	12.2554327	0.20731392	0.42118017	0.49222146	0.6225628	0.83247791
B930092H01I	26.6844342	0.20705492	0.41741338	0.49604285	0.61986418	0.83138912
3830408C21F	45.1223719	0.20690826	0.37342973	0.5540755	0.57952718	0.80819901
1810013L24F	4282.10394	0.20690755	0.16793471	1.23207144	0.2179224	0.50588315
Ushbp1	603.357314	0.20686097	0.26644882	0.77636287	0.43753476	0.7115571
Pld5	1.37877746	0.20672015	0.21721756	0.95167327	0.34126271	NA
Mab21l1	1.37877746	0.20672015	0.21721756	0.95167327	0.34126271	NA
Tpgs1	1246.40375	0.20665761	0.24627925	0.83911907	0.4014025	0.68648523
Ccnyl1	1229.61604	0.20662567	0.1702934	1.21335104	0.22499564	0.51439387
Mir6990	4.47285326	0.20657261	0.38834741	0.53192735	0.59477632	NA
Atp6v0e2	760.675211	0.20651029	0.18142809	1.13824875	0.25501663	0.54797381
Arfgef2	7093.78239	0.20640643	0.22165266	0.93121564	0.35174203	0.64397696
Habp2	3.64381814	0.20640543	0.36913639	0.55915765	0.57605414	NA
Cox8b	11.8859201	0.20635027	0.38758037	0.53240641	0.59444454	0.81778194
Fam214b	824.125944	0.20609422	0.21585695	0.95477223	0.3396929	0.63313658
Myl12b	11311.2274	0.20604898	0.17670285	1.16607613	0.24358367	0.5357807
Trim25	16068.0776	0.20604107	0.20014279	1.02947033	0.30325871	0.59849162
Sost	1.25913393	0.20597706	0.25869806	0.79620646	0.42591204	NA
Mme	11181.9075	0.2058842	0.20977912	0.98143324	0.32637914	0.61957682
Pex13	4837.21709	0.20587789	0.16513833	1.24669961	0.21250766	0.49916693
Tyw3	1056.49005	0.20586003	0.21742778	0.94679728	0.34374209	0.63705556
Hepacam2	2.90824616	0.20583745	0.36728728	0.56042629	0.5751887	NA
Stac3	25.3937331	0.20583679	0.4139971	0.4971938	0.6190524	0.83090659
Gm13710	1.89679855	0.20582167	0.30897901	0.6661348	0.50532495	NA
Zfp105	1482.83949	0.20576004	0.16089493	1.27884727	0.20095085	0.4847195
Smim15	4811.69186	0.205703	0.18147317	1.13351741	0.25699704	0.54996022
Fibcd1	4.39187038	0.20562451	0.3882386	0.52963437	0.59636546	NA
Soat2	260.942489	0.20559504	0.28842627	0.71281664	0.47595923	0.74134156
Pax9	16.6401999	0.20540067	0.43224391	0.47519622	0.63464712	0.83934241
Gmnc	10.243205	0.20536238	0.32660203	0.62878478	0.52948996	0.77650872
Ell3	1414.23656	0.20533226	0.27483347	0.74711519	0.45499403	0.72548059
Mob3c	880.253772	0.20532558	0.25850811	0.79427135	0.42703748	0.70407759
Itga2b	60.8186115	0.20511356	0.34561505	0.59347403	0.55286395	0.79208943
Lpcat4	774.120653	0.20510807	0.18158511	1.12954233	0.25866913	0.55112352
Neur12	142.65097	0.20492761	0.30602264	0.66964852	0.50308188	0.75940849
Slc4a3	175.559855	0.2049167	0.28197342	0.72672347	0.46739537	0.73589809
Chmp4b	7572.39857	0.20490884	0.17192621	1.19184178	0.23332329	0.52494365
Ankrd39	433.513858	0.204863	0.20187886	1.01478184	0.31020983	0.60486516

Scamp3	4422.65266	0.20477175	0.18093109	1.1317665	0.25773262	0.5502471
Rap2c	3175.26338	0.20470292	0.15706576	1.30329436	0.19247429	0.4751814
Terf2	3690.49534	0.20436226	0.16323939	1.25191759	0.2105999	0.49749947
9330162012F	7.34384103	0.20434713	0.41758457	0.48935507	0.62459034	0.83334035
4921539E11F	3.7616107	0.20432965	0.38795285	0.52668682	0.59841109	NA
Slc9a3r1	5659.67388	0.20407851	0.25976057	0.78564083	0.43207794	0.70751227
Selk	1688.59509	0.20395929	0.18385321	1.10935938	0.26727518	0.55978401
Mturn	740.011167	0.20394642	0.33420396	0.61024539	0.54169926	0.78493899
Endog	923.396076	0.20390388	0.23209889	0.87852157	0.37966074	0.66879294
Gm12657	3.74190513	0.20389721	0.38928025	0.52378	0.60043157	NA
Vsx1	28.686157	0.20387707	0.42691108	0.47756332	0.63296104	0.83857582
Gdap2	1297.66293	0.20384806	0.16126455	1.26405996	0.20620851	0.49102568
Aanat	1.73594695	0.20383444	0.27650768	0.73717462	0.46101617	NA
Maged2	1925.33769	0.20381288	0.20235261	1.00721643	0.31383078	0.60837477
Timp1	2798.29682	0.20373308	0.24463592	0.83280116	0.40495688	0.68916712
Ehmt2	8506.13087	0.20368302	0.21734743	0.93713104	0.34869116	0.64088124
Smdt1	3208.48291	0.20364164	0.18331005	1.11091365	0.26660552	0.55898374
Egfr	233.6843	0.2036297	0.27874861	0.73051377	0.4650762	0.73410475
Sardh	3.5295141	0.20359614	0.35845125	0.56798836	0.57004287	NA
Fastkd5	1939.91937	0.20358531	0.17737827	1.14774662	0.25107318	0.54460318
Pet100	1765.92085	0.20348674	0.25937095	0.78453944	0.43272365	0.70789874
Mir7089	1.56165646	0.20346676	0.27574473	0.73788085	0.46058686	NA
Acaca	3019.69209	0.20335435	0.24097578	0.8438788	0.39873714	0.68457103
Nudt18	334.017737	0.20335232	0.25615967	0.79384987	0.42728284	0.70423083
Tmem120a	2288.38203	0.2032197	0.20558184	0.98851001	0.32290294	0.61736896
Trmt2a	3809.95628	0.20318851	0.17684167	1.14898545	0.25056198	0.54405045
Tmco4	867.838167	0.20313505	0.18139372	1.11985715	0.26277464	0.55510278
Mettl7a3	8.22641388	0.20307033	0.42800325	0.47445978	0.63517207	0.83950033
Sec22a	1817.82055	0.20294284	0.18226143	1.11347114	0.26550614	0.55746658
Zc3h3	356.607855	0.20290204	0.25362766	0.79999963	0.42371101	0.70246588
Tln1	11332.0015	0.20286593	0.2693346	0.75321154	0.45132281	0.72318609
Frmpt1	35.7045885	0.20286316	0.43058001	0.47113929	0.63754127	0.84125743
Igf2bp1	24415.3736	0.2025378	0.24571294	0.82428624	0.40977693	0.69288258
Rab12	3258.6175	0.20253427	0.16974673	1.19315567	0.23280841	0.52452319
Gpr52	1.72515878	0.20252596	0.27623731	0.73315932	0.46346127	NA
Pbx2	2936.9453	0.20232154	0.1947988	1.03861798	0.29898244	0.59367833
Ctf1	242.774266	0.20229453	0.3330935	0.60732054	0.54363821	0.78606395
Tbcb	4493.27958	0.20224518	0.20593684	0.98207383	0.32606348	0.61942501
Fam96a	4618.41215	0.20223651	0.20186961	1.00181751	0.31643174	0.6110555
Idh1	20903.7074	0.2022001	0.15876271	1.2735994	0.20280542	0.48733798
Nkrf	1494.81218	0.20219457	0.24262611	0.83335866	0.40464248	0.68911875

Vps29	5382.33602	0.2021876	0.17727931	1.14050313	0.25407675	0.54723498
Tbxa2r	38.6977767	0.20215915	0.37638847	0.53710238	0.59119689	0.81611679
Ghitm	27123.4834	0.20215543	0.20656317	0.97866153	0.32774724	0.62118189
Zbtb24	1714.6986	0.2020937	0.15539135	1.30054666	0.19341367	0.47612768
1600025M17	1.9391994	0.20207932	0.31474076	0.64205003	0.5208407	NA
Rpp14	3101.69795	0.20194806	0.22108146	0.91345545	0.36100305	0.65183221
Clpp	4920.98863	0.20187628	0.19342974	1.04366721	0.29663939	0.59122008
Atf2	5823.70027	0.20181953	0.18688316	1.07992356	0.28017622	0.57238012
Crb1	1.43390416	0.20173468	0.28917716	0.69761621	0.48541724	NA
Arhgef10	352.567565	0.20171253	0.28407554	0.71006651	0.47766289	0.7424775
Trp63	17.3841985	0.20147314	0.4236862	0.47552442	0.63441323	0.83928202
Wdr44	960.036104	0.20133945	0.23284983	0.86467512	0.38721713	0.67614702
Slc35e3	789.358242	0.20131933	0.21541688	0.93455569	0.3500167	0.64198366
Pear1	27.8114069	0.20130439	0.39649035	0.50771574	0.61165271	0.82704211
Olf94	2.33265561	0.20130255	0.2602287	0.77356016	0.43919094	NA
Crtc1	645.335645	0.2012601	0.25212546	0.79825378	0.42472324	0.70307615
Ssr2	20885.1844	0.20114538	0.20359547	0.98796589	0.32316935	0.61777586
Neu1	1943.43724	0.20108402	0.27937748	0.71975743	0.47167436	0.73859646
Exog	814.442975	0.2009493	0.23839464	0.8429271	0.39926922	0.68479492
Unc5c	17.1640993	0.20086682	0.42194846	0.47604588	0.6340417	0.83926065
Gm13483	1.54195089	0.2008322	0.2751591	0.72987664	0.46546559	NA
Al854517	114.710415	0.20079866	0.42369747	0.4739199	0.63555703	0.83965231
Slc35b3	588.124075	0.20079424	0.24694112	0.81312598	0.41614583	0.6982611
Cd28	1.47014958	0.20075115	0.21435042	0.9365559	0.34898705	NA
Hdhd3	96.8803193	0.2007354	0.34886968	0.57538794	0.56502896	0.80125038
Slc25a25	1622.49405	0.20070743	0.18244816	1.10007921	0.27129761	0.56486131
Gm10560	50.4870526	0.20068482	0.36584253	0.54855519	0.58331074	0.81071278
Cacna1a	3342.60198	0.20066471	0.20930296	0.95872849	0.33769554	0.6309628
Pparg	1.81784149	0.20065374	0.24085584	0.83308647	0.40479596	NA
Acvr1b	2375.13333	0.20062684	0.23115901	0.86791702	0.38543976	0.67454127
Rhoq	1239.27667	0.20059538	0.34904591	0.57469627	0.56549673	0.80155685
Pitx3	28.2416608	0.20055178	0.42770242	0.46890496	0.63913757	0.84223427
Lym4	750.739066	0.20053472	0.24487755	0.81891836	0.41283299	0.69515344
Ctxn1	296.161869	0.20051645	0.24906637	0.80507236	0.42077793	0.70091929
Cers6	1807.53913	0.200469	0.26217506	0.76463794	0.44448717	0.71785439
Coro7	1641.28479	0.20044095	0.20042769	1.00006617	0.31727849	0.61159656
1700030J22R	276.893068	0.20030981	0.27130776	0.73831214	0.46032479	0.73086774
Ffar1	1.22010018	0.20029659	0.25271787	0.79256992	0.42802844	NA
Smco2	3.15659501	0.20023499	0.33144803	0.60412182	0.54576265	NA
Tcf12	4717.21915	0.20013766	0.24829563	0.80604584	0.42021642	0.70048081
4933424G06I	3.48896789	0.20011896	0.37530567	0.53321592	0.59388412	NA

Vgll4	380.865522	0.19998452	0.29451206	0.67903679	0.49711455	0.75614418
Atrnl1	924.070489	0.19996501	0.22314781	0.89611013	0.37019394	0.66042056
Slc35e2	2315.07322	0.19992817	0.19309684	1.03537774	0.30049254	0.59541367
9430060I03R	6.28110996	0.19980216	0.38921508	0.5133464	0.60770903	0.82522557
Gak	7303.06195	0.19972212	0.18050254	1.10647817	0.26851961	0.56133195
Wasf1	2368.71384	0.19969952	0.22866857	0.87331423	0.38249182	0.67137416
4930526L06F	151.557555	0.19969385	0.32331256	0.61764954	0.53680638	0.78097821
Resp18	1.45759975	0.19967693	0.21385072	0.93372113	0.35044776	NA
Pcdhgb4	15.1061415	0.19952612	0.42166003	0.47319192	0.63607626	0.84003761
Higd1a	2739.44969	0.19937291	0.24063421	0.82853104	0.40736983	0.69121748
Plekha3	3241.54306	0.19928753	0.18504478	1.07696924	0.28149401	0.5737239
Reln	10.927512	0.19924004	0.42596243	0.46774088	0.6399699	0.84254757
Slc35a4	2694.17618	0.19922526	0.24756822	0.80472873	0.42097624	0.70091929
Phldb3	210.308018	0.19915543	0.29293081	0.67987192	0.49658556	0.75601768
2610027K06F	1.51375917	0.1991388	0.23918134	0.83258499	0.40507883	NA
Cd79b	297.560833	0.19909709	0.31814125	0.62581352	0.53143726	0.7782358
Pdcd2	3733.25189	0.19907357	0.18810898	1.05828852	0.28992392	0.58341187
D10Jhu81e	1745.46245	0.1990656	0.20871914	0.95374864	0.34021089	0.6336027
Whrn	579.2894	0.19898726	0.23796584	0.83620093	0.40304188	0.68747441
Rabl3	1907.09262	0.1989167	0.15480215	1.28497375	0.19880146	0.48195956
Nptx2	2519.34371	0.19846342	0.30095678	0.6594416	0.50961223	0.76413825
Slc25a16	1929.37386	0.19842743	0.19851189	0.99957453	0.31751646	0.61159656
Il1rl1	2.62632056	0.19837239	0.21273057	0.9325053	NA	NA
Cdc73	4482.5198	0.19836368	0.20571698	0.96425529	0.33491795	0.62796106
Cnga3	386.23221	0.19835586	0.355615	0.55778261	0.57699284	0.80734073
Mmp15	745.768383	0.1982603	0.3766799	0.52633629	0.59865457	0.82005546
Fam117b	4090.10313	0.19821454	0.21961552	0.90255251	0.36676344	0.65694132
Tada2b	1048.82335	0.19817273	0.22692781	0.87328535	0.38250756	0.67137416
Srp54a	238.378398	0.19815986	0.25187727	0.78673181	0.43143888	0.70688509
Mrps36	476.109768	0.1979524	0.23086992	0.85741963	0.39121301	0.67929361
Erich2	11.4966987	0.19782926	0.43166548	0.45829299	0.64674196	0.84723143
Senp7	555.475579	0.19777732	0.21792105	0.90756409	0.36410858	0.65406636
Proser2	207.409323	0.19766281	0.38369191	0.51516022	0.60644106	0.82429551
Cd55	2560.75304	0.19764183	0.22313584	0.88574669	0.37575404	0.66545395
Mir453	1.76552294	0.1975964	0.32256208	0.61258411	0.54015137	NA
Psme1	4608.21295	0.19753124	0.27961148	0.70644897	0.47990898	0.74398871
Dusp23	13.8784309	0.19736955	0.4322641	0.45659482	0.64796231	0.84807194
Gm16523	2.70373695	0.19731638	0.33145211	0.59530889	0.55163702	NA
BC030867	2898.99705	0.1972685	0.16737846	1.17857757	0.23856643	0.53071461
Htati2	1976.742	0.19715903	0.22452939	0.87809899	0.37989	0.66890318
a	25.0643525	0.19692552	0.42798876	0.46011844	0.64543121	0.84629525

Tmem63b	3808.53278	0.1968326	0.17591827	1.11888661	0.26318852	0.5553611
Tex11	778.034407	0.19667209	0.23789651	0.82671279	0.40839987	0.69198369
Gm6432	49.360314	0.1965928	0.4061708	0.48401509	0.62837516	0.83570189
2210039B01F	4.9880232	0.1965193	0.36989758	0.53128032	0.59522454	NA
Obfc1	1532.62494	0.19646199	0.272279	0.72154661	0.47057327	0.73806203
S100a4	2.3122947	0.19645164	0.28718397	0.684062	0.49393602	NA
Coa6	1154.82103	0.19638971	0.19150122	1.0255272	0.3051145	0.59970116
Lamtor2	3555.50856	0.19630408	0.24301926	0.80777172	0.41922201	0.69987348
Rexo2	3365.45117	0.19630212	0.17949365	1.09364377	0.27411124	0.56692432
Ppp1r37	2196.58501	0.19614371	0.21932725	0.89429703	0.37116299	0.66146638
Cyp26a1	20.5802681	0.19605889	0.41457067	0.4729203	0.63627004	0.84016603
Ptpn23	4047.94562	0.19603482	0.21741825	0.90164842	0.36724366	0.65733265
Polr3d	2624.58252	0.19603338	0.2176664	0.9006139	0.36779364	0.65810136
Arpc5	7188.49721	0.19593587	0.17315107	1.13158913	0.25780721	0.55025528
Wipi2	6476.57548	0.19589281	0.15611748	1.25477824	0.20955927	0.49577373
Upf3b	4900.98642	0.19587319	0.17031007	1.15009755	0.2501037	0.54373865
Mctp1	3.48584103	0.19585986	0.34508093	0.5675766	0.5703225	NA
Cav2	1.45360973	0.19577239	0.28420508	0.68884197	0.49092272	NA
Gm10653	10.8636734	0.19576888	0.43207499	0.45309005	0.6504839	0.84904399
Dok5	1.45147069	0.1956744	0.28935917	0.67623363	0.49889232	NA
Eif2d	9517.30733	0.19567424	0.19026197	1.02844644	0.30373987	0.5985887
Fa2h	4.25073982	0.19557122	0.36629732	0.53391387	0.59340113	NA
Nprl3	1317.10228	0.19545857	0.19261229	1.01477725	0.31021202	0.60486516
Pdgfra	100.198773	0.19543224	0.34177001	0.57182383	0.56744133	0.8030103
Cyp1a2	11.1429318	0.19532845	0.41325468	0.47265877	0.63645665	0.84034109
Cul4b	30245.3064	0.19520833	0.23680928	0.82432719	0.40975367	0.69288258
Phf1	677.746506	0.19501287	0.21434739	0.90979821	0.36292894	0.65337545
Narf	1595.90712	0.19498328	0.26991242	0.72239461	0.4700519	0.7376907
Cdkn2a	2324.18179	0.19495843	0.26884759	0.72516338	0.46835181	0.73621136
Uhrf1bp1	5200.78634	0.19493437	0.19504109	0.99945286	0.31757536	0.61159656
Sccpdh	3031.0065	0.19481294	0.25622584	0.76031729	0.44706495	0.72037167
Dusp12	2800.596	0.19469548	0.18738613	1.03900688	0.29880154	0.59351931
Wfdc3	1.40035382	0.19468465	0.21150296	0.92048188	0.357321	NA
Rap2b	1991.63116	0.19462341	0.16773322	1.16031529	0.24592046	0.53908837
A430089I19R	3.32226506	0.19456989	0.31030162	0.62703472	0.53063648	NA
Itgb4	1036.22804	0.19446192	0.24953702	0.77929087	0.43580839	0.70987111
Alox5	32.7075701	0.19442273	0.41986302	0.46306228	0.64331972	0.84490346
Cldn7	622.60217	0.19441674	0.4090409	0.47529903	0.63457385	0.83934241
Man1a	167.418682	0.19440071	0.41304256	0.47065539	0.63788684	0.84137221
Zmym3	4213.34868	0.19411422	0.21316497	0.91062907	0.36249085	0.653349
Il17b	27.3050304	0.1941053	0.42492088	0.45680339	0.64781237	0.84806214

Dbi	10450.2661	0.19409442	0.21045699	0.92225219	0.35639705	0.64764337
Cbx4	755.038586	0.19407972	0.20292745	0.95639954	0.33887042	0.63247406
Klhdc8a	22.8624679	0.19404045	0.430056	0.45119811	0.65184677	0.84981368
Aph1c	146.512442	0.19403298	0.3339826	0.58096734	0.56126246	0.79905798
Inpp1	144.480879	0.19392551	0.3102889	0.62498373	0.53198174	0.77840121
Mapk14	7663.54083	0.19381388	0.18991786	1.02051426	0.30748463	0.60207674
Gm6083	260.327481	0.1937136	0.33538074	0.57759309	0.56353887	0.80003409
Aldh9a1	6078.25635	0.19371141	0.20899917	0.92685253	0.35400311	0.64545695
Tmem177	1108.55166	0.19368875	0.17524556	1.10524198	0.26905475	0.56207287
Syde1	342.492611	0.19358163	0.23778271	0.81411144	0.41558111	0.69777304
Snap47	3519.67737	0.19353674	0.17769392	1.08915794	0.27608424	0.5685851
Dym	3276.55874	0.19352916	0.15595182	1.2409548	0.21462245	0.50166747
Mrpl36	3225.14211	0.19346179	0.19811974	0.97648922	0.32882209	0.62222868
E130012A19f	10296.8716	0.19340481	0.21410423	0.90332085	0.36635563	0.65673734
Gm14634	4.7990277	0.19334678	0.39867763	0.48497023	0.62769746	NA
Vav2	1170.66169	0.19334629	0.20805389	0.92930869	0.35272913	0.64439796
Bola1	877.541359	0.1932911	0.23111113	0.83635567	0.40295484	0.68740218
Hmx3	1.85023167	0.19326373	0.30433188	0.63504265	0.5254006	NA
E230019M04	3.74053632	0.19313659	0.38635626	0.49989247	0.61715079	NA
Smim12	1764.45282	0.19306667	0.21302449	0.9063121	0.36477069	0.6548307
Arhgap25	13.2705484	0.19305305	0.43080167	0.44812513	0.65406289	0.85168012
Tmem208	1679.49948	0.19291087	0.20438213	0.94387349	0.3452343	0.63779826
Tmprss11d	45.0055682	0.19290538	0.43187129	0.44667332	0.65511095	0.85234189
Mir330	1.44845229	0.19284775	0.29405181	0.65582917	0.51193404	NA
Lrp2	792.498358	0.19284749	0.36473054	0.52873963	0.59698608	0.81955304
Mrpl44	2529.52714	0.19262184	0.17072387	1.1282654	0.25920785	0.55135294
Prnp	1241.80777	0.19250918	0.3412841	0.56407309	0.57270439	0.80615492
Msc	414.778256	0.19249893	0.41470671	0.46418088	0.64251816	0.84425594
Ten1	769.84114	0.19245099	0.2369245	0.81228828	0.41662624	0.69846427
Itgb1bp1	1596.19423	0.19227197	0.21601585	0.89008269	0.37342149	0.66321123
Pde1a	2.78556509	0.19223034	0.30778235	0.62456585	0.53225604	NA
Slc25a19	2027.94634	0.19206761	0.18175139	1.05676004	0.29062112	0.58458789
AY074887	5.69208418	0.1920309	0.40705805	0.47175311	0.63710302	NA
Paip2	13151.1155	0.19201665	0.19098981	1.00537639	0.31471564	0.60933055
Isoc2a	3898.89278	0.19199722	0.25273697	0.75967208	0.44745062	0.72061978
Cdk15	1.99091118	0.19187075	0.28385256	0.67595215	0.49907102	NA
AU022252	1345.47084	0.19185806	0.20806888	0.92208915	0.35648207	0.64769865
Ghrhr	1.07328503	0.19181424	0.2490736	0.77011069	0.44123424	NA
Sord	3729.32692	0.19173158	0.26437377	0.72522922	0.46831142	0.73621136
Cnot8	6287.04569	0.19161922	0.24508564	0.781846	0.43430508	0.70860901
Vsig1	4.23982412	0.1915549	0.3567672	0.53691847	0.59132393	NA

Il23r	0.78670812	0.19155303	0.21082808	0.90857452	0.36357476	NA
Bpifc	0.78670812	0.19155303	0.21082808	0.90857452	0.36357476	NA
Cyp2b9	0.78670812	0.19155303	0.21082808	0.90857452	0.36357476	NA
Tmed4	2956.33327	0.19154662	0.17666557	1.08423289	0.27826155	0.5707454
Mir18b	2.00346101	0.19132693	0.28286453	0.67639069	0.49879263	NA
Tmem14a	503.848771	0.19130537	0.22830435	0.83794008	0.40206436	0.68675204
Palld	2045.24115	0.19126859	0.29599904	0.64617976	0.51816295	0.76808698
Zfp553	5576.03898	0.19091429	0.24228954	0.78795928	0.43072053	0.70667088
Dido1	8998.16494	0.19090879	0.26545303	0.71918103	0.47202938	0.73859646
2510039O18I	5277.42865	0.19082666	0.19393891	0.98395241	0.32513891	0.6188465
Phc2	1736.29799	0.1907458	0.16512335	1.15517159	0.24802017	0.54125198
C1qa	1.06612929	0.19069794	0.24871369	0.76673682	0.44323801	NA
4930503B20F	3.20435449	0.19049537	0.37792359	0.5040579	0.61422069	NA
Rho	3.04847462	0.19042683	0.29984491	0.63508441	0.52537336	NA
Plcb1	48.6859152	0.19031812	0.40942597	0.46484134	0.64204508	0.84385084
Vipas39	2960.15584	0.19022324	0.18718026	1.01625695	0.30950704	0.60444616
Polr3gl	523.839746	0.19019801	0.29137017	0.65277104	0.51390389	0.76592775
Gbp7	8.09631459	0.1901746	0.4238981	0.44863282	0.65369655	0.85139323
Tubb3	4045.44485	0.19014281	0.29018096	0.65525595	0.51230297	0.76528308
Khsrp	13123.9797	0.19013682	0.20945189	0.9077828	0.36399299	0.65406636
Hoxd3	5.8008509	0.19000855	0.39589021	0.47995264	0.63126107	NA
T	70.9579076	0.18974577	0.38279422	0.49568608	0.62011591	0.83138912
Cox17	4884.51099	0.18970354	0.22248177	0.85267004	0.39384231	0.68150459
Deb1	846.940233	0.18949217	0.22860221	0.82891664	0.40715158	0.69113538
Crtap	7434.67271	0.18945917	0.20695433	0.9154637	0.35994825	0.65095421
Gimap4	0.77415829	0.18945625	0.20980989	0.90299006	0.36653117	NA
F10	0.77415829	0.18945625	0.20980989	0.90299006	0.36653117	NA
Gm5122	0.77415829	0.18945625	0.20980989	0.90299006	0.36653117	NA
9530068E07F	3058.50937	0.18944738	0.17677384	1.07169355	0.2838577	0.57623655
A630023A22I	18.4800907	0.18929045	0.41145972	0.46004612	0.64548312	0.84629525
Ppcdc	1530.6041	0.18926051	0.2241612	0.84430541	0.39849877	0.68445486
Vstm2l	33.6356394	0.18915584	0.4076863	0.463974	0.64266638	0.84431062
Sec14l1	9327.26234	0.18913396	0.18931511	0.99904314	0.31777379	0.61159656
Snord34	131.944927	0.18908742	0.32861208	0.57541224	0.56501253	0.80125038
Gbp8	10.3612396	0.1890743	0.41716959	0.45323127	0.65038222	0.84904399
Arhgap30	2695.26399	0.18902103	0.24380232	0.77530449	0.43815976	0.71192377
Lmo4	305.010343	0.18893091	0.35850471	0.526997	0.59819567	0.81984777
Tssk5	1.59326914	0.18884907	0.27559935	0.68523046	0.49319851	NA
4933439K11F	1.59326914	0.18884907	0.27559935	0.68523046	0.49319851	NA
Zscan10	6817.41989	0.18884657	0.23846177	0.79193643	0.42839774	0.7047819
Mbd1	1100.11469	0.18875785	0.21384652	0.88267907	0.37740969	0.66728175

Pagr1a	2919.1636	0.18863578	0.18480583	1.02072416	0.30738515	0.60195774
Cuedc2	5017.82347	0.18847187	0.19422926	0.97035776	0.33186819	0.62518259
Cdh22	48.7280316	0.18842671	0.43211464	0.43605722	0.66279521	0.85628715
Sv2a	59.9199061	0.18832538	0.39922535	0.47172699	0.63712167	0.84100493
Slc14a2	0.76700255	0.18825211	0.20922103	0.89977622	0.36823935	NA
Gpr37	0.79386386	0.18823635	0.20916498	0.899942	0.36815112	NA
H2-M2	0.79386386	0.18823635	0.20916498	0.899942	0.36815112	NA
Mettl7b	0.79386386	0.18823635	0.20916498	0.899942	0.36815112	NA
4933402J07R	0.79386386	0.18823635	0.20916498	0.899942	0.36815112	NA
Agtr2	0.79386386	0.18823635	0.20916498	0.899942	0.36815112	NA
Pnpla5	0.79386386	0.18823635	0.20916498	0.899942	0.36815112	NA
Mroh5	0.79386386	0.18823635	0.20916498	0.899942	0.36815112	NA
Daw1	0.79386386	0.18823635	0.20916498	0.899942	0.36815112	NA
Pex14	1995.44517	0.18821175	0.1994205	0.94379339	0.34527524	0.63779826
Exd1	310.994444	0.1881765	0.27638077	0.6808596	0.49596033	0.75562645
Pla2g16	1322.84468	0.18813835	0.29853473	0.63020588	0.52855989	0.77562901
Ankar	1.71871942	0.18801534	0.30841893	0.60961023	0.54212003	NA
Tk1	5702.26893	0.18789402	0.15597462	1.20464483	0.22834044	0.51898893
Emilin1	296.190488	0.18767261	0.27424041	0.68433609	0.49376296	0.7539776
Syt12	57.5177485	0.18767075	0.42049303	0.44631121	0.65537246	0.85234189
Elf2	4919.49411	0.1876668	0.15728627	1.19315438	0.23280892	0.52452319
Eps15	4839.47441	0.18757865	0.23444181	0.8001075	0.42364852	0.70243716
Irx1	3.44007917	0.18748007	0.33229229	0.56420229	0.57261647	NA
Tec	174.925908	0.18744097	0.28444541	0.65896991	0.50991509	0.76423377
Emc8	6100.41836	0.18742774	0.22766904	0.82324649	0.41036784	0.69309338
Rab35	4578.19112	0.18728286	0.16919337	1.10691607	0.26833022	0.56110753
Slc26a1	4.30176757	0.18705743	0.39021686	0.47936789	0.63167694	NA
Mpped1	9.29385065	0.18701083	0.42837615	0.43655752	0.66243227	0.85619416
Kcnq5	5.83019634	0.18700819	0.41990131	0.44536225	0.65605799	NA
Ccl6	3.24576393	0.18698901	0.38190063	0.4896274	0.62439758	NA
Cds2	12855.2868	0.18696647	0.19372705	0.96510259	0.33449343	0.62758652
Gfy	5.7802469	0.18696095	0.41427426	0.45129753	0.65177513	NA
Limk2	6634.36904	0.1869077	0.18547235	1.00773889	0.31357983	0.60796408
Atp5k	6632.03904	0.18683192	0.21961914	0.8507087	0.39493119	0.68233238
Polr2d	4112.89431	0.18673047	0.18038851	1.03515719	0.30059551	0.59548544
Exosc5	3586.31613	0.18671051	0.18254259	1.02283263	0.30638699	0.60075955
Gm20362	7.43320161	0.18670867	0.41181906	0.4533755	0.65027837	0.84900546
Hist1h2bc	125.252637	0.18669292	0.38666213	0.48283217	0.6292149	0.83631803
Rab17	211.439653	0.18656109	0.37092942	0.50295577	0.61499537	0.82953469
Gm1661	2.28753404	0.18645879	0.32076875	0.58128729	0.56104685	NA
Gle1	3619.31046	0.18644335	0.18774821	0.99304998	0.3206856	0.61465951

Timm13	4223.18119	0.18626827	0.22195791	0.83920536	0.40135408	0.68647792
Iqgap1	33716.9577	0.18622375	0.19815231	0.93980103	0.34731963	0.63972138
Ciao1	3395.70029	0.1861184	0.16302681	1.14164289	0.25360249	0.54630452
Aldh5a1	1889.16735	0.18596583	0.25352225	0.73352864	0.46323606	0.73297798
Col27a1	303.629707	0.18596551	0.34779042	0.53470568	0.59285339	0.81705522
Hipk4	86.3995244	0.18592983	0.30758801	0.60447684	0.54552666	0.78674628
Fgf13	170.018407	0.18590427	0.42527113	0.43714293	0.6620077	0.85598085
Ism1	3.86289453	0.18586296	0.36489292	0.50936301	0.6104978	NA
D17H6S53E	416.08826	0.18585918	0.23223305	0.80031323	0.42352934	0.70238934
Acsbg2	215.515118	0.18582757	0.30473431	0.60980191	0.54199303	0.78505055
Pde6c	1.1272443	0.18567624	0.25368	0.73193095	0.46421072	NA
Slc39a1	3891.80701	0.1856347	0.20315436	0.91376183	0.36084201	0.65179488
Ncoa5	2682.76289	0.18558834	0.22840084	0.81255542	0.416473	0.69837863
Sumf1	2232.96243	0.18553049	0.15288558	1.21352516	0.2249291	0.51439301
Col4a3bp	3574.4676	0.18549833	0.23342383	0.79468465	0.42679696	0.70402942
Gls2	2851.99097	0.18535945	0.18712216	0.99057991	0.32189075	0.61624069
Trim30b	1.10076037	0.185331	0.24980935	0.74188974	0.45815414	NA
Rab5c	8858.59172	0.18528274	0.22614416	0.81931251	0.41260814	0.69515344
Tom20l	10.4789172	0.18518659	0.40402792	0.45835097	0.64670031	0.84723143
Manf	6723.7092	0.18511233	0.17878336	1.03540022	0.30048204	0.59541367
Mterfd2	1487.87887	0.18498051	0.17183226	1.07651794	0.28169568	0.57405969
Ppp1r13b	1331.67511	0.18495983	0.24629807	0.75095933	0.45267713	0.72421877
Tinf2	4226.27365	0.18480454	0.18803129	0.98283925	0.32568656	0.6191628
Ccl8	1.30600454	0.18470112	0.20667584	0.89367542	0.37149558	NA
Gria2	2.50797924	0.18468728	0.32935624	0.56075234	0.57496638	NA
C030046E11F	3976.51636	0.18460429	0.21938844	0.84144951	0.40009616	0.68523795
Cdh16	2.52446455	0.18450548	0.31111672	0.59304265	0.55315261	NA
Tmem200c	1.09536628	0.18448459	0.24954883	0.7392725	0.45974154	NA
Gm14403	1204.80415	0.18448073	0.20941559	0.88093125	0.37835503	0.66771292
Zfp768	200.367591	0.18435509	0.25346922	0.72732733	0.46702546	0.73566899
Bhlha15	69.675956	0.18428995	0.37755227	0.48811772	0.62546646	0.83404467
Lypd6b	1.6183688	0.18420641	0.27133693	0.67888439	0.49721112	NA
Nav1	4147.66864	0.18410362	0.25651293	0.71771672	0.47293197	0.73930088
2610002M06	481.690356	0.18407759	0.25049455	0.73485667	0.46242679	0.73259973
Isca1	1735.65213	0.18406975	0.18693667	0.98466366	0.32478931	0.6188465
Spats2	3991.90518	0.18401628	0.1619738	1.13608669	0.25592029	0.54871314
Inhbc	6.46340619	0.1839975	0.40581793	0.45339913	0.65026136	0.84900546
Mbnl1	1392.9231	0.18393611	0.32575429	0.56464678	0.57231404	0.80572656
Nt5c	1859.40868	0.18379183	0.26705027	0.68822934	0.49130837	0.75186608
Mir302a	1.13477743	0.1836686	0.24739345	0.74241498	0.45783595	NA
1700105P06F	3.57387847	0.18357802	0.37182017	0.49372797	0.62149831	NA

Fbxl19	4656.77302	0.18352614	0.22620959	0.8113102	0.41718755	0.69868745
Olf307	1.29345471	0.18352091	0.20609331	0.89047486	0.37321096	NA
Pip5k1a	2816.50901	0.18350527	0.22677048	0.80921146	0.41839352	0.69924102
Mfsd2a	40.3990798	0.18342164	0.36807014	0.49833337	0.61824909	0.83047349
Bnpl	210.345416	0.18328518	0.40294756	0.45486112	0.64920916	0.84869184
Amotl1	2595.36232	0.18305731	0.20204314	0.90603084	0.36491953	0.65484233
Esd	6912.19843	0.18303478	0.1863329	0.98229989	0.32595213	0.61928913
Oas2	245.672075	0.18295594	0.23890871	0.76579854	0.44379618	0.71711081
Rnf183	2.94525292	0.18286601	0.35988851	0.5081185	0.61137024	NA
Gfi1	2.92241689	0.18282843	0.36611445	0.49937506	0.61751518	NA
Stoml1	1952.6481	0.18264278	0.20122056	0.90767455	0.36405019	0.65406636
Ddx25	227.775571	0.182595	0.29117234	0.62710286	0.53059181	0.77760181
Sstr1	1.6303046	0.18245908	0.26463263	0.68948068	0.49052083	NA
2900076A07F	199.671808	0.18230588	0.27235085	0.66937876	0.5032539	0.75952071
5730508B09F	191.034537	0.18225845	0.40589859	0.44902458	0.65341392	0.85120495
Ubr3	10599.5874	0.18225511	0.21331306	0.854402	0.39288229	0.68081934
Nsg1	67.6237579	0.18216193	0.33671925	0.54099054	0.5885141	0.81419144
Pramel3	9.28998476	0.18208506	0.42674858	0.42667994	0.66961246	0.86052797
Agpat2	2809.6052	0.18207516	0.22464793	0.81049117	0.41765794	0.69868745
Timm22	2038.82108	0.18205653	0.21134562	0.86141614	0.38900889	0.67794934
Atxn7l3b	5342.24203	0.182026	0.18619771	0.97759528	0.32827453	0.62193444
C5ar2	1.60042488	0.18192957	0.27084504	0.67171091	0.50176775	NA
Zic4	0.75445272	0.18192789	0.2060362	0.88298993	0.37724171	NA
Scarletltr	0.75445272	0.18192789	0.2060362	0.88298993	0.37724171	NA
Olf658	0.75445272	0.18192789	0.2060362	0.88298993	0.37724171	NA
Exoc8	1529.76915	0.18181108	0.22007794	0.82612133	0.40873527	0.69240111
Casp7	983.838015	0.18170726	0.2709213	0.67070128	0.50241085	0.75924357
Rbx1	6353.45108	0.18168923	0.18185751	0.9990747	0.31775851	0.61159656
Ankrd53	1.42874672	0.18167116	0.28835204	0.63003251	0.52867331	NA
Wdr26	7862.91095	0.18167112	0.18796378	0.96652194	0.33378307	0.62713382
Kcnd3os	1.13440004	0.18161739	0.25093246	0.72377001	0.46920694	NA
Caln1	1.13440004	0.18161739	0.25093246	0.72377001	0.46920694	NA
Pml	9238.35478	0.18159981	0.20839856	0.87140623	0.38353238	0.67248981
Prss48	15.3190891	0.18159554	0.43220704	0.42015868	0.67436954	0.86375836
Igsf9	326.537854	0.18151601	0.34506792	0.52602979	0.59886751	0.82005546
Atf7ip	5200.95394	0.18137629	0.27734164	0.65398146	0.51312375	0.76586884
Fkbp9	19526.2287	0.18134026	0.16717863	1.08470959	0.2780503	0.5704433
4930453L07F	2.39802353	0.18133773	0.25973002	0.69817779	0.48506602	NA
Daxx	5060.59499	0.18127641	0.21187911	0.85556527	0.39223829	0.68016253
Col4a1	1991.68139	0.18124934	0.4322697	0.41929689	0.67499917	0.86408562
Napa	5608.49638	0.18103568	0.18606044	0.97299394	0.33055631	0.62369343

ErbB3	1844.33542	0.1810309	0.29016035	0.62389951	0.53269358	0.77871009
Ehd3	174.939777	0.18098394	0.3032771	0.59676099	0.55066697	0.79097822
Tfpt	1049.113	0.18094491	0.22742347	0.79562985	0.42624721	0.70402942
Plod2	7042.84517	0.18093922	0.25274029	0.71590967	0.47404713	0.74015587
Ufc1	4294.81019	0.18083246	0.19440047	0.93020585	0.35226452	0.64439796
Gpr114	98.294075	0.18076664	0.4113503	0.43944697	0.6603377	0.85504245
Sema6d	2.0708524	0.1806951	0.28174651	0.64133926	0.52130229	NA
Mrpl37	4628.36727	0.18066347	0.17265909	1.04635947	0.2953951	0.59006926
Prr7	113.095037	0.18065977	0.32053518	0.56361916	0.57301335	0.80618651
Ugt3a2	1.1133102	0.18055597	0.24641286	0.7327376	0.46371848	NA
Zdhhc16	2150.48092	0.18052076	0.16207241	1.1138278	0.26535307	0.55725936
Gm7030	26.6635943	0.1804372	0.41850602	0.43114601	0.66636221	0.8585804
Robo3	14.3925968	0.18023866	0.4315277	0.41767575	0.67618421	0.864488
Snora69	34.2099913	0.18021226	0.39036041	0.46165609	0.64432796	0.84549356
Mrps18c	3572.65233	0.18019503	0.20592995	0.87503072	0.38155719	0.67053858
4933411E08F	1.64447534	0.1801272	0.27618361	0.65220093	0.51427156	NA
Brap	2231.79826	0.18008505	0.19794227	0.90978574	0.36293552	0.65337545
Thoc6	4336.74252	0.18008125	0.1631104	1.10404519	0.26957354	0.56260264
Gmfg	504.659614	0.1800377	0.266711	0.67502915	0.49965724	0.75725268
Krtcap2	3201.48227	0.18001515	0.21240967	0.84749036	0.39672186	0.68311652
Pcdhga12	128.549891	0.17985924	0.35393782	0.50816619	0.6113368	0.82680328
Bloc1s2	2817.74941	0.17976798	0.17069795	1.05313496	0.29227914	0.58609887
2610206C17F	4.60503164	0.17970665	0.39926076	0.45009845	0.65263946	NA
Lrrn3	4.69381299	0.179688	0.38902633	0.46189162	0.64415905	NA
Accs	505.506743	0.17966618	0.19594013	0.91694427	0.35917184	0.65015497
Igf2r	13031.1551	0.17955702	0.22475988	0.79888374	0.42435783	0.70286384
Fam160a2	4476.63382	0.17952885	0.1767692	1.0156116	0.30981438	0.60461696
2610028H24I	11.283474	0.17933232	0.4316248	0.41548196	0.67778912	0.86555439
Rgcc	674.115701	0.17927809	0.42130815	0.42552722	0.67045238	0.86110051
Dcaf10	1278.64784	0.17925568	0.18570757	0.9652578	0.3344157	0.62758652
Chrm3	5.8450421	0.17918503	0.3821737	0.46885756	0.63917145	NA
Dctn5	3284.191	0.17884061	0.15280624	1.17037505	0.24185007	0.53423444
Zscan4c	55.9572794	0.17881003	0.42416538	0.42155735	0.67334815	0.86318004
Banp	3165.97841	0.17871452	0.19331721	0.92446256	0.35524553	0.64696432
Ikzf5	1602.37507	0.17858087	0.20079711	0.88935977	0.37380976	0.6634462
Mthfd1	26691.736	0.17857351	0.17294242	1.03256048	0.30180963	0.59697807
Ypel4	2.08577791	0.17854569	0.28419349	0.62825398	0.52983757	NA
Mir6907	1.44814198	0.17853369	0.22941121	0.77822564	0.436436	NA
Arhgap36	1.44814198	0.17853369	0.22941121	0.77822564	0.436436	NA
Nudt19	4238.80199	0.17838367	0.16687667	1.06895513	0.28508989	0.57794718
Nlrp4e	2.84104937	0.17835527	0.29536917	0.60383846	0.54595105	NA

Ubr4	26200.2728	0.17811461	0.25610747	0.69546822	0.48676192	0.74813547
Tmem243	1194.43845	0.17799013	0.17406867	1.02252822	0.30653096	0.60096608
Acnat1	4.10604099	0.17786613	0.30144963	0.59003598	0.55516653	NA
Myo7a	651.515691	0.17771304	0.37284348	0.47664247	0.63361674	0.83901345
Trp53i13	501.788322	0.17768206	0.2410658	0.73706871	0.46108057	0.73142754
Mir3058	6.43765187	0.17766312	0.40959349	0.43375473	0.66446656	0.85719825
Med18	1285.90326	0.17749364	0.19448623	0.91262833	0.36143805	0.65221104
Dnaaf3	1304.53165	0.17744503	0.20572119	0.86255105	0.38838435	0.67748384
Adat2	2143.59804	0.17736627	0.21966364	0.80744485	0.41941024	0.70003741
Wbscr25	3.86674138	0.17730078	0.39244882	0.45178064	0.65142702	NA
Abhd17b	2441.34403	0.1772618	0.18911814	0.93730721	0.34860056	0.64086621
Trim30a	10.2352306	0.1770692	0.39815741	0.4447216	0.65652096	0.85271673
Tmem115	1116.67948	0.17705818	0.20945552	0.84532595	0.39792888	0.68393999
Dph3	2503.33253	0.17688592	0.19180294	0.92222735	0.35641	0.64764337
Abhd11	2371.41015	0.1767653	0.19571005	0.90319987	0.36641983	0.65677671
4930412C18F	16.0489467	0.17671512	0.4253368	0.41547103	0.67779712	0.86555439
Rer1	7185.73704	0.17654915	0.18674917	0.94538118	0.34446431	0.63755825
Nfib	1369.69536	0.17654359	0.22179403	0.79597992	0.42604371	0.70402942
Fam166a	4.11771511	0.17652849	0.38070936	0.46368309	0.64287481	NA
Rnf114	7097.25641	0.17652539	0.18830884	0.93742487	0.34854005	0.64083073
Tmem199	3787.91768	0.17647597	0.21502751	0.82071346	0.4118095	0.69435645
Frrs1	3325.55528	0.17638753	0.2660661	0.66294626	0.50736497	0.76261673
Smtnl2	7794.94574	0.17633917	0.17758193	0.99300175	0.3207091	0.61465951
Mgarp	904.20432	0.17626401	0.32599369	0.54069762	0.58871602	0.8143171
Ablim3	18.9994319	0.17624005	0.4316059	0.40833558	0.68302732	0.86824483
Adamtsl1	87.0407961	0.17618688	0.34863899	0.50535622	0.61330866	0.82834489
1700013F07F	4.01868528	0.17607856	0.38568723	0.45653199	0.64800747	NA
Dstyk	2226.3333	0.17602351	0.1958349	0.89883625	0.36873989	0.65913197
C330022C24F	2.30923791	0.17596205	0.32219553	0.54613437	0.58497358	NA
Uqcr11	5722.82277	0.17591149	0.24489172	0.71832355	0.47255781	0.73916179
Mir761	8.42151917	0.17579092	0.42950641	0.4092859	0.68232986	0.86782626
Irf2bp1	1441.51342	0.17572301	0.24078708	0.72978586	0.46552109	0.73450877
Ackr3	1440.85865	0.17571515	0.32761821	0.53634122	0.59172275	0.81634852
LOC10050328	16.9793701	0.17570628	0.43199757	0.40672979	0.68420646	0.86900479
Ift46	5313.73272	0.17569595	0.19023794	0.92355896	0.35571599	0.64739379
Tmem203	281.02186	0.17567962	0.27111485	0.64798965	0.51699165	0.76793048
Gltp	5450.37976	0.17563845	0.18520818	0.94832989	0.34296154	0.63667123
Zfp324	516.312095	0.17554533	0.24023519	0.73072281	0.46494848	0.73410475
BC089491	11.0827601	0.17550979	0.42800741	0.4100625	0.6817601	0.86734737
Kcnv2	1.8930386	0.17550017	0.27959066	0.62770399	0.53019787	NA
4921509O07I	2.36553807	0.17545067	0.35096823	0.49990469	0.61714219	NA

Fat1	13527.9188	0.17539199	0.36877866	0.47560234	0.63435771	0.83928202
Clcf1	11.8757289	0.17538235	0.43210247	0.40588138	0.68482976	0.86944308
Sprn	10.8422132	0.17538096	0.37304704	0.47013095	0.63826146	0.84172354
Med9os	11.7416105	0.1753141	0.43201723	0.40580349	0.684887	0.86944308
Tor3a	701.806318	0.1750639	0.3313696	0.52830405	0.59728832	0.81955501
Mtfr1l	4009.91333	0.1749576	0.16056091	1.08966493	0.27586077	0.56820011
Gabrg3	17.2399392	0.17485072	0.41769374	0.41860985	0.67550129	0.86437262
Mir688	2.8488928	0.17484991	0.34093217	0.51285834	0.60805041	NA
Optc	4.60330478	0.17481053	0.38534347	0.45364861	0.65008176	NA
Peli1	2938.43615	0.17476093	0.18935943	0.92290586	0.35605627	0.64764054
Gypc	2.0881152	0.17475612	0.34034897	0.51346158	0.60762848	NA
Atp5s	751.154696	0.17447102	0.26616073	0.65551	0.51213945	0.76528308
Gm5662	60.4161355	0.17445243	0.43226925	0.40357354	0.68652635	0.87055301
Nckipsd	1010.09988	0.17443943	0.2156303	0.80897456	0.41852978	0.69931842
Snord35b	22.6007983	0.17442933	0.41599601	0.4193053	0.67499302	0.86408562
Mtr	5443.18072	0.17439748	0.20601784	0.84651639	0.39726474	0.68346763
E230025N22I	50.7658992	0.17437622	0.39466232	0.4418365	0.65860752	0.85392743
Mapre2	2619.2896	0.17423187	0.25858836	0.67378077	0.5004507	0.75785125
Cct8l1	28.2037723	0.17409947	0.4115121	0.42307254	0.67224234	0.86226003
Ttc32	377.734185	0.17393316	0.24313242	0.71538448	0.4743715	0.74043056
Nxpe2	2.07933855	0.17389887	0.3223389	0.53949079	0.58954825	NA
Ang2	1.48277307	0.17383542	0.22981828	0.75640379	0.44940714	NA
Lgr6	52.7174737	0.17382928	0.41112147	0.42281733	0.67242854	0.86235661
Ywhab	16969.9294	0.17380147	0.17305636	1.00430559	0.31523134	0.60949429
Mrpl35	6356.32704	0.17379439	0.16659074	1.04324161	0.29683641	0.59122008
Pin1	7250.87138	0.17377303	0.16653635	1.04345405	0.29673805	0.59122008
H2-DMb1	502.988212	0.17363494	0.30963012	0.5607818	0.57494629	0.80673793
Gsta1	1.12039228	0.17362854	0.20117915	0.86305434	0.38810759	NA
Aste1	1050.87611	0.17358797	0.18817006	0.92250579	0.35626481	0.64764054
Gm7157	2.03755173	0.17356132	0.31958455	0.5430842	0.58707183	NA
Ccdc175	7.52629123	0.17353634	0.40321651	0.43038005	0.66691921	0.85904585
Gm17769	3.56421885	0.17343138	0.38861166	0.44628454	0.65539172	NA
Pam16	1125.05859	0.17336849	0.23159539	0.7485835	0.45410828	0.72503469
5730559C18F	573.072183	0.17329879	0.31976632	0.5419545	0.58784985	0.81353146
Tmem159	417.024416	0.17329372	0.25351783	0.68355633	0.49425537	0.75435914
Dclre1b	1207.17163	0.17329175	0.22152864	0.78225441	0.43406507	0.70858066
Rgs2	3.92836196	0.17326407	0.36212779	0.47846112	0.63232204	NA
Ptpn18	94.1216766	0.17325238	0.33772012	0.51300581	0.60794726	0.82540491
Nrbf2	670.145199	0.17324278	0.18350559	0.94407359	0.34513205	0.63773152
Lgr5	2.63024765	0.17319742	0.28838423	0.60057868	0.54812064	NA
Gad1os	2.66259285	0.17312181	0.30285095	0.57164032	0.56756568	NA

Mospd4	3.87451115	0.17310212	0.39418732	0.43913671	0.66056248	NA
Zfp346	2879.03519	0.17307443	0.17977781	0.96271299	0.33569157	0.62835095
Phf23	7327.68783	0.17306865	0.17154603	1.00887588	0.31303417	0.60773961
Pygo2	3990.73473	0.17306283	0.24336675	0.71111945	0.47701022	0.7420212
Runx3	64.4993379	0.17282292	0.34266393	0.50435106	0.6140147	0.8287946
Fam189a2	687.341579	0.17281079	0.24869925	0.69485849	0.48714399	0.74857472
Dock2	108.152582	0.17280461	0.37992023	0.45484445	0.64922115	0.84869184
Fam65a	1982.46114	0.17279954	0.21235503	0.81372943	0.41579997	0.69783135
Rftn1	539.870351	0.17274708	0.31555578	0.54743754	0.58407817	0.81141028
Asic4	1.80631835	0.17272134	0.30745653	0.56177484	0.57426944	NA
Arfrp1	1832.74259	0.17267242	0.15876822	1.08757545	0.27678257	0.56928593
Etfb	7766.26398	0.17263237	0.2544067	0.67856847	0.49741132	0.75628114
Ndor1	2846.00321	0.17256128	0.19527368	0.88368943	0.37686389	0.6667361
Ltbp4	6336.38034	0.17254717	0.24280244	0.71064842	0.47730213	0.74223918
Tbcc	1267.52742	0.17249316	0.21525108	0.80135792	0.42292447	0.7019851
Milr1	2.43781864	0.17244248	0.34739358	0.49638938	0.61961972	NA
Itga4	5.57250773	0.1724254	0.39849516	0.43269133	0.66523903	NA
Psmc8	13589.0643	0.17223954	0.18153381	0.94880145	0.3427216	0.63645375
Smndc1	6832.54792	0.17218909	0.1921935	0.89591529	0.37029801	0.66053043
Ubxn4	6623.55659	0.17216011	0.16779726	1.02600074	0.30489124	0.59964128
Kctd17	1054.74078	0.17212829	0.21477251	0.80144468	0.42287426	0.70197732
Syvn1	1734.03937	0.1719699	0.26093747	0.65904638	0.50986598	0.76423377
Ptk2	5454.17928	0.17192541	0.16370558	1.05021104	0.2936211	0.58743107
4930596l21R	2.45450581	0.17191788	0.35192317	0.48850971	0.62518885	NA
Epb4.1l4b	2713.23215	0.17191175	0.21418309	0.80263921	0.4221833	0.70127884
Rspo3	1.63908125	0.17189883	0.27108555	0.63411285	0.52600717	NA
Tom1l2	1180.20207	0.17181067	0.23776468	0.72260802	0.46992074	0.73765956
Mir6236	12368.1901	0.17164564	0.22384567	0.7668035	0.44319836	0.71664974
Apoe	29429.8299	0.17163097	0.23492283	0.73058446	0.465033	0.73410475
Khdc3	3006.13278	0.17161617	0.4322596	0.39702107	0.69135192	0.87379826
Dennd5b	1305.77982	0.17140127	0.27770294	0.61721087	0.53709564	0.78110674
Il1r1	69.3019597	0.17130851	0.35197645	0.48670445	0.62646779	0.83466421
Ypel2	3334.71441	0.17124342	0.24632923	0.69518108	0.48694183	0.74833801
Ap4b1	1760.32926	0.17106472	0.16286442	1.05035044	0.29355702	0.58737844
1110032A03f	243.776065	0.17101442	0.30255351	0.56523695	0.57191261	0.80538015
Ensa	6698.32591	0.17074636	0.18504403	0.92273372	0.35614599	0.64764054
2210404O09l	759.9573	0.17074155	0.25476245	0.67019905	0.50273091	0.75933521
Rab33a	148.043161	0.17055441	0.34092005	0.50027685	0.61688015	0.83032065
Zfp119a	245.59119	0.17054302	0.24077832	0.7082989	0.47875966	0.74303308
Ak5	32.71319	0.1705379	0.43087486	0.3957945	0.69225663	0.87437321
1700022A21f	51.9950782	0.17049107	0.35534446	0.47979099	0.63137602	0.83751629

Man1a2	4927.39218	0.17047135	0.20634932	0.82612993	0.40873039	0.69240111
Nudt8	738.330845	0.17045321	0.27927561	0.61034048	0.54163629	0.78492088
Rasgef1a	758.022539	0.1704464	0.18988978	0.89760706	0.36939507	0.65967648
Sult2a5	1.65678852	0.17031653	0.2596398	0.65597234	0.51184192	NA
5430402O13I	4.32712294	0.17023747	0.36104591	0.47151196	0.63727518	NA
Gal3st2	1.10960411	0.17022476	0.19939783	0.85369413	0.39327449	NA
Akr1d1	1.10960411	0.17022476	0.19939783	0.85369413	0.39327449	NA
Mir6929	1.3849616	0.17018347	0.26589164	0.64004823	0.52214124	NA
Prm2	1.3849616	0.17018347	0.26589164	0.64004823	0.52214124	NA
Ankrd13a	8642.93832	0.17010322	0.15643764	1.0873548	0.27688004	0.56939453
Mir7026	4.66098921	0.16990496	0.40520206	0.41930922	0.67499016	NA
Scara3	2.59958799	0.1697825	0.32102429	0.52887743	0.59689048	NA
Dgat1	1266.04238	0.16976093	0.17781029	0.9547306	0.33971395	0.63313658
Chfr	6711.56916	0.16970423	0.18296663	0.92751466	0.35365938	0.64520848
Scamp2	2445.04997	0.16967886	0.17653413	0.96116742	0.336468	0.6291874
4933427E11F	4.96703504	0.16964972	0.40444168	0.41946647	0.67487525	NA
Dhx32	6604.86198	0.16958724	0.17927538	0.94595946	0.34416926	0.63739147
Phf11d	8887.99641	0.16952434	0.26546522	0.63859341	0.52308747	0.77134419
Gm5622	97.3503417	0.1695051	0.42896533	0.39514871	0.69273314	0.87461511
Slc29a4	735.083433	0.16947955	0.2834988	0.59781399	0.54996406	0.79043355
Uox	35.4875252	0.16945624	0.43219046	0.39208695	0.69499397	0.87520052
Itga2	2.0250019	0.16933805	0.31761666	0.53315228	0.59392817	NA
Nfu1	5930.45184	0.16929113	0.17029846	0.99408494	0.32018151	0.61412854
1700110C19F	2.8236524	0.16924469	0.35527149	0.47638128	0.63380277	NA
1700065D16I	1.0949889	0.16922083	0.24509646	0.69042543	0.48992669	NA
Chrna2	1.0949889	0.16922083	0.24509646	0.69042543	0.48992669	NA
0610010B08F	1.0949889	0.16922083	0.24509646	0.69042543	0.48992669	NA
Alox15	6.97875098	0.16920353	0.39005709	0.43379171	0.6644397	0.85719825
Glce	4036.10292	0.16917083	0.17912427	0.9444328	0.34494853	0.63773152
Zkscan4	72.2615422	0.16908956	0.34453634	0.49077424	0.62358613	0.83265488
Prdm2	6334.88031	0.16901973	0.2224189	0.7599162	0.44730467	0.72045935
2610203C22F	2.73633135	0.16898045	0.35594625	0.47473587	0.63497525	NA
Zscan4f	23.3300402	0.16897199	0.40883018	0.41330606	0.67938239	0.86613179
Krt14	1.42437274	0.16896956	0.26259862	0.6434518	0.51993098	NA
Hadhb	2663.31312	0.16896955	0.15518495	1.08882688	0.27623024	0.56872206
Mrgpre	13.7606144	0.168888	0.43226822	0.39070186	0.69601763	0.87578041
Tfr2	15.6328602	0.16888129	0.43008582	0.39266881	0.69456411	0.87496374
9030612E09F	4.14947144	0.1688307	0.36499375	0.46255778	0.64368138	NA
2210416O15I	1.63539496	0.16878882	0.31972839	0.52791316	0.59755961	NA
Gpr27	29.4581733	0.16864461	0.4192935	0.40221136	0.68752848	0.87088718
C330007P06F	1941.87679	0.16863429	0.17952978	0.93931099	0.3475711	0.63980565

Lpin3	727.670573	0.16861415	0.29918278	0.5635824	0.57303837	0.80618651
Hspa1a	60.223836	0.16860827	0.35286346	0.47782865	0.63277217	0.83846625
Tacc2	9734.80991	0.16857083	0.22099162	0.76279286	0.44558694	0.71882993
Nkiras1	886.230221	0.16855166	0.22539439	0.74780769	0.45457616	0.72518943
Lrpap1	8984.27507	0.16844167	0.23118744	0.72859353	0.46625034	0.73498824
Kctd6	2957.00864	0.16843516	0.1613771	1.04373647	0.29660733	0.59122008
Rbm15b	3256.96439	0.16831319	0.22819686	0.73757892	0.46077037	0.73116428
Shroom3	3996.58517	0.16831211	0.25353451	0.66386273	0.50677817	0.76210302
Slco1a5	2.7926663	0.16826507	0.36795451	0.45729858	0.64745645	NA
4833428L15F	2.62091447	0.16819964	0.33349344	0.50435668	0.61401076	NA
Papolb	297.124535	0.16811775	0.32831492	0.51206247	0.60860729	0.82562526
Trim34a	259.489096	0.16810618	0.41900488	0.4012034	0.68827038	0.8714925
Man2b2	2178.95627	0.16809287	0.21378519	0.78626994	0.43170936	0.70705763
Pdcd1	1.28223529	0.16808854	0.22742995	0.73907829	0.45985946	NA
Wdr54	115.508759	0.16794719	0.331192	0.50709918	0.61208523	0.82733919
Sbson	2.79520496	0.1679108	0.32731594	0.51299303	0.6079562	NA
Fam129a	5798.74261	0.16782362	0.24758852	0.67783281	0.49787771	0.75642242
Txnl4a	13078.4658	0.16779266	0.18298047	0.91699764	0.35914388	0.65015497
Arhgap8	923.034576	0.16770713	0.38836163	0.43183239	0.66586323	0.85846785
Traf6	2709.08987	0.16769127	0.22147498	0.75715673	0.44895597	0.72177342
Tns4	33.6137695	0.16764562	0.42347649	0.3958794	0.692194	0.87436511
Abcd1	730.437021	0.16762325	0.27587587	0.6076039	0.54345022	0.78603486
Nptxr	16.4402076	0.16756161	0.43191103	0.38795399	0.69805009	0.87663546
Supt7l	1590.48072	0.1674193	0.2096481	0.79857297	0.42453807	0.70293777
Irgq	1081.93567	0.16733989	0.23678819	0.70670705	0.47974855	0.74388599
Mirlet7bhg	1.88642322	0.16721012	0.24005407	0.69655193	0.48608325	NA
Trex2	10.5391277	0.16703776	0.40340773	0.41406684	0.67882516	0.86604267
Mir7063	3.45711856	0.16703661	0.33573891	0.49751937	0.61882285	NA
Gspt2	994.967192	0.16690285	0.17404793	0.95894761	0.33758514	0.63083231
Akap8l	3857.96279	0.16683376	0.20997133	0.79455493	0.42687244	0.70402942
Olig2	1722.57663	0.16665902	0.30651282	0.54372609	0.58662998	0.81285599
Pla2g10os	8.02780359	0.16648657	0.42406753	0.39259447	0.69461902	0.87496374
2410131K14F	1190.26329	0.1664574	0.19038449	0.87432228	0.38194277	0.67083714
Tjp2	13822.6887	0.16637267	0.22053102	0.75441847	0.45059799	0.72293741
Stab1	11.4426953	0.16632331	0.430032	0.38676962	0.69892677	0.87724054
6720468P15F	6.7629911	0.16626894	0.41110541	0.40444357	0.68588657	0.87014375
Dnajc9	4706.78517	0.16621544	0.15942806	1.04257328	0.29714597	0.59143953
Rhoj	1.12930968	0.16619623	0.19723094	0.84264786	0.39942542	NA
Unc5a	44.6832567	0.1661701	0.42103454	0.39467094	0.69308576	0.87461511
Unc45a	1834.83061	0.16615253	0.2141787	0.77576586	0.43788725	0.71185287
Atp8a2	16.4337492	0.16604639	0.43120695	0.38507354	0.70018293	0.87785127

Nap1l4	13950.4842	0.16603966	0.13969872	1.18855534	0.23461469	0.5263048
Ido1	1.82877699	0.16596995	0.30145993	0.55055393	0.5819395	NA
Il12rb2	1.82877699	0.16596995	0.30145993	0.55055393	0.5819395	NA
Otud7b	3175.90101	0.16584902	0.16849846	0.98427617	0.32497974	0.6188465
Capza2	16046.8425	0.16582857	0.16619142	0.9978167	0.31836825	0.61236174
Tomm7	10135.1876	0.16581036	0.19954971	0.83092259	0.40601736	0.68991262
Nme3	1008.86617	0.16577823	0.20442501	0.81094888	0.41739503	0.69868745
Piga	5822.5475	0.16574813	0.19595228	0.84585964	0.39763105	0.68379525
Jak1	5641.75329	0.1656648	0.23075221	0.71793373	0.47279815	0.73930088
Timp2	147.161013	0.16563531	0.3969654	0.41725377	0.6764928	0.8645032
Olfr1372-ps1	47.9827542	0.16562148	0.40028156	0.41376245	0.67904809	0.86604267
Mcoln3	10.0247079	0.1655481	0.42192309	0.39236559	0.6947881	0.875083
Mir7028	1.04872574	0.1655196	0.19693796	0.84046569	0.40064733	NA
Rabl2	531.014752	0.16548025	0.19462618	0.8502466	0.395188	0.68239513
Zrsr2	6117.90866	0.1654459	0.18876316	0.87647346	0.3807727	0.66978428
S100a11	1661.13303	0.16520288	0.24597048	0.67163705	0.50181478	0.75882164
Traf2	1057.71376	0.16517588	0.18507778	0.89246733	0.3721425	0.66226853
Nit1	1628.86533	0.1650763	0.1873166	0.88126894	0.37817228	0.66769396
Gp1bb	2.67721464	0.16504391	0.35971285	0.45882129	0.6463625	NA
Eif5	29261.6708	0.16502125	0.20649458	0.79915538	0.42420032	0.70280233
Zzef1	2079.82139	0.16493439	0.27214297	0.6060579	0.54447631	0.78623679
C330024D21l	766.19626	0.1649232	0.32534722	0.50691443	0.61221486	0.82744249
Cul3	10378.4996	0.16490222	0.19391674	0.85037642	0.39511584	0.68239513
Wipi1	887.867269	0.16483184	0.23173155	0.71130514	0.47689517	0.7420212
Capns2	1.28193157	0.16481892	0.28511189	0.57808505	0.5632067	NA
Slc25a44	1831.28749	0.16451912	0.25703434	0.6400667	0.52212924	0.77084692
G630025P09l	29.3194471	0.16449468	0.41461693	0.39673894	0.69155998	0.87391917
Nme2	32617.2386	0.1643428	0.20438849	0.80407075	0.42135611	0.70108061
Twsg1	5655.14177	0.16427859	0.24080989	0.68219205	0.49511752	0.75514952
Lamtor3	1687.88558	0.16426314	0.17224265	0.95367288	0.34024925	0.6336027
Riad1	14.1108385	0.16425017	0.43147012	0.38067567	0.70344393	0.87928906
Mirlet7f-1	4.24241421	0.16417476	0.36992301	0.44380791	0.65718147	NA
E230008N13l	1.81622716	0.1641716	0.3012517	0.5449649	0.58577766	NA
Tatdn3	468.388397	0.16416099	0.30882293	0.53156995	0.59502388	0.81807236
Senp3	23725.3918	0.1641145	0.1578237	1.0398597	0.29840509	0.59295905
Rab24	2389.36728	0.16406887	0.22797941	0.71966532	0.47173108	0.73859646
Aebp1	151.808382	0.16400582	0.30452226	0.53856759	0.59018526	0.81538476
Dgkg	35.1080908	0.16390728	0.40356764	0.40614574	0.68463552	0.86933674
Hoxa13	14.8028402	0.16381369	0.42892796	0.38191423	0.70252498	0.87879687
Elovl1	1125.55693	0.16374257	0.20191324	0.81095509	0.41739146	0.69868745
Polg	4965.76722	0.16363585	0.17260641	0.94802884	0.34311477	0.63670595

Aar2	1979.37494	0.16355325	0.2098919	0.77922612	0.43584653	0.70987111
Gamt	170.239371	0.16353444	0.27936273	0.58538388	0.55828962	0.79658335
Mia2	1.9341827	0.16346532	0.28425837	0.57505895	0.56525143	NA
Snrpg	5000.32103	0.16346325	0.19466843	0.83970089	0.40107612	0.68630443
Gm6525	1.30163714	0.16343463	0.28221909	0.57910549	0.56251799	NA
2310069G16l	2.68260872	0.16340733	0.35773863	0.45677853	0.64783024	NA
Copz1	14590.7	0.163375	0.18290184	0.89323865	0.37172938	0.6617932
Mettl6	3004.96382	0.16332285	0.16298513	1.00207208	0.31630878	0.61089392
Tex21	321.978532	0.16327366	0.32060179	0.50927244	0.61056128	0.82628478
Nrp	74.3029771	0.16327134	0.35038312	0.46597947	0.6412302	0.84346082
Abr	6822.99037	0.16320713	0.20869583	0.78203348	0.4341949	0.70859113
Cideb	39.294107	0.16320523	0.42955718	0.3799383	0.70399122	0.87942876
1700029J03R	0.9413954	0.16311608	0.23880399	0.68305422	0.49457258	NA
Slc24a3	0.9413954	0.16311608	0.23880399	0.68305422	0.49457258	NA
Mir1930	0.9413954	0.16311608	0.23880399	0.68305422	0.49457258	NA
C130060K24f	2.54399459	0.16306202	0.32063866	0.50855383	0.611065	NA
Oscp1	179.023776	0.16302466	0.29933542	0.544622	0.58601352	0.81258103
Cldn13	2.70200399	0.1629772	0.29276855	0.55667591	0.57774888	NA
Ccp110	6836.03306	0.16292361	0.21821781	0.74661007	0.45529897	0.72574357
Maml3	19.5666473	0.16280304	0.4204162	0.38724254	0.69857666	0.87701346
Ppp1r15a	2478.67168	0.16279587	0.21823761	0.74595698	0.4556934	0.7260746
Six3	4.85460178	0.16279315	0.39153298	0.41578401	0.67756806	NA
Chat	1.95388827	0.16273981	0.28237273	0.57632978	0.5643923	NA
Stambp	535.565472	0.16261549	0.2359757	0.68911966	0.49074797	0.75166175
A230103J11R	4.69700456	0.16246968	0.40595765	0.40021336	0.68899938	NA
Gltpd1	624.800038	0.16230011	0.19361907	0.83824444	0.40189343	0.68675204
Dnaaf2	2016.95807	0.16215337	0.1566597	1.03506753	0.30063738	0.59549253
Mslnl	45.3668493	0.16203259	0.42702264	0.3794473	0.70435573	0.87942876
Ubfd1	9300.3991	0.16199039	0.20700748	0.78253399	0.43390082	0.70858066
Vipr1	31.1799026	0.16191747	0.4187326	0.38668466	0.69898967	0.87724868
Sdk1	19.5957183	0.16182882	0.4322142	0.3744181	0.70809328	0.88119581
Dll4	5.71726111	0.16180745	0.39637008	0.40822316	0.68310984	NA
Chmp1b	3354.82857	0.16179567	0.16203699	0.99851072	0.31803177	0.61194161
Rbfa	2728.92024	0.16177564	0.22227485	0.72781799	0.46672501	0.73543831
2610307P16f	2.34023656	0.16171217	0.31485247	0.51361253	0.60752292	NA
C920006O11l	235.488805	0.16168598	0.32755817	0.49360999	0.62158165	0.83196874
Wnt9a	70.2182671	0.16152632	0.36307164	0.44488829	0.65640048	0.85271673
Itgbl1	1.97528183	0.16148501	0.24099839	0.67006678	0.50281522	NA
Uqcrq	8056.85302	0.16146216	0.23100387	0.69895867	0.48457786	0.74712338
Tle3	8343.71161	0.16145314	0.20920439	0.77174834	0.44026349	0.71437162
Ank	1671.65847	0.16115061	0.24095321	0.66880458	0.50362014	0.75985222

Gpr111	5.6475156	0.16113017	0.39864079	0.40419891	0.68606645	NA
Plbd2	3477.07841	0.16112207	0.18786937	0.85762816	0.39109782	0.67916942
Sgsm2	1702.47215	0.16106089	0.20701502	0.7780155	0.43655988	0.7104377
Agxt	0.92884557	0.16099713	0.23807325	0.6762504	0.49888168	NA
Asb18	3.21177556	0.16089301	0.34881426	0.46125697	0.64461425	NA
Slc10a3	462.067939	0.16081355	0.21875361	0.73513553	0.46225696	0.7324053
Mtss1l	2098.09706	0.16075262	0.19630684	0.81888444	0.41285235	0.69515344
Arhgef19	471.11159	0.16074583	0.26148882	0.61473311	0.53873099	0.78260679
Foxi3	15.759578	0.16064088	0.4291153	0.37435366	0.70814122	0.88119581
Uckl1	1181.12151	0.16060364	0.24889348	0.64527056	0.51875187	0.76880876
Chmp7	4432.6671	0.16060239	0.17609345	0.91202933	0.36175328	0.65254528
Mpped2	496.616751	0.16058442	0.30336861	0.52933764	0.59657125	0.81955304
Samd5	2.67437176	0.16056033	0.32942192	0.48740024	0.62597472	NA
Map7d1	2129.78045	0.16055575	0.24930045	0.64402511	0.51955915	0.76956514
Tmem167	6296.75056	0.16051533	0.17860488	0.8987175	0.36880315	0.65913197
Dnajb2	919.599019	0.16042893	0.20458346	0.7841735	0.43293831	0.70817541
1600015110R	0.94855114	0.16031212	0.23655856	0.67768471	0.49797162	NA
Tspan31	6017.93323	0.16014185	0.17603618	0.90970986	0.36297554	0.65337545
Mir677	33.8839555	0.16013847	0.39383088	0.40661736	0.68428905	0.86903871
Mgat1	1327.13456	0.15998957	0.26105237	0.61286388	0.53996635	0.78381188
Stard7	5465.78338	0.15997234	0.18125893	0.88256254	0.37747267	0.66728175
Fbf1	1633.91842	0.15988114	0.2232863	0.71603652	0.4739688	0.74015587
Igfn1	0.92168982	0.15979135	0.23764997	0.67238114	0.50134109	NA
Aknad1	0.92168982	0.15979135	0.23764997	0.67238114	0.50134109	NA
Trpv2	139.418877	0.15971698	0.3384401	0.47192097	0.6369832	0.84089352
Vasp	9817.46687	0.15966346	0.17134617	0.93181805	0.35143057	0.64355826
Pde1b	1771.44788	0.1596135	0.31296088	0.51001104	0.61004373	0.82596711
AW011738	2.38562103	0.1595855	0.33045427	0.48292763	0.62914712	NA
Tecpr2	1875.09671	0.1595747	0.21944694	0.72716759	0.4671233	0.73569317
Anapc16	1849.11931	0.15947984	0.16133818	0.98848169	0.3229168	0.61736896
Ndufa1	3023.18252	0.15945212	0.21159626	0.75356775	0.45110882	0.72303079
Cck	4.16416099	0.15945041	0.32264094	0.49420389	0.62116219	NA
Fscn3	1.83555535	0.15923223	0.30131879	0.52845107	0.5971863	NA
Csnk1g1	3460.71133	0.15913667	0.2355797	0.67551097	0.49935119	0.75708397
Rab11fip5	7724.14469	0.15906794	0.20798752	0.76479562	0.44439326	0.71777727
G3bp2	43094.0788	0.15899869	0.22618811	0.7029489	0.48208759	0.74506279
9230116L04F	2.52150726	0.15896626	0.3370488	0.47164168	0.63718257	NA
Clgn	1899.27856	0.158813	0.4172586	0.38061049	0.7034923	0.87928906
Ccdc172	263.413101	0.15865574	0.394568	0.40209987	0.68761053	0.87089586
S1pr5	32.0942647	0.15853729	0.4302342	0.36849067	0.7125074	0.88374769
Srprb	2630.37414	0.15847314	0.15473993	1.02412571	0.3057759	0.60009099

Hilpda	742.302078	0.15834982	0.22648144	0.6991735	0.48444361	0.74712338
Cdk9	6227.30859	0.15832948	0.15114061	1.04756412	0.29483948	0.58933788
Letm2	71.439666	0.15829912	0.33000099	0.47969288	0.63144579	0.83751629
2900011O08I	1695.17173	0.15824745	0.32541597	0.48629284	0.62675955	0.83469537
Laptm4a	11832.93	0.15809374	0.157913	1.00114454	0.31675694	0.61130393
Mir3076	1.28637263	0.15803251	0.22550981	0.70077888	0.48344102	NA
Rhobtb3	2347.93044	0.15802087	0.35519838	0.44488061	0.65640604	0.85271673
Zfp57	35356.1189	0.15798248	0.1723885	0.91643284	0.35943992	0.65018613
Dux	4.77058963	0.15791341	0.35777109	0.44138114	0.6589371	NA
Tmem129	758.940689	0.15787144	0.22458279	0.70295432	0.48208421	0.74506279
Snapc1	1444.25884	0.15784414	0.26755522	0.58994978	0.55522432	0.7945425
1700095B10F	1.46137951	0.1578363	0.26412708	0.5975771	0.55012215	NA
Pcdh17	1.74218494	0.15783352	0.29657736	0.53218331	0.59459904	NA
Jarid2	17951.5966	0.15782835	0.2021056	0.78092022	0.43484942	0.709064
Fitm2	390.642683	0.15782042	0.2456938	0.64234595	0.52064859	0.76986886
Tmprss2	23.682395	0.15753833	0.43156851	0.36503666	0.71508404	0.88470138
Rbpms2	14788.6154	0.15752568	0.17593262	0.89537503	0.37058665	0.6608179
Tspan3	4176.94704	0.15745501	0.1601408	0.98322856	0.32549496	0.61910129
Onecut1	6.21867112	0.1574308	0.40444053	0.38925574	0.69708697	0.87645821
4931409K22F	25.1183862	0.15727487	0.43210508	0.36397367	0.71587767	0.88472721
Synb	2.47521168	0.15708457	0.24747737	0.63474317	0.52559594	NA
Parp11	761.19164	0.15704686	0.22466492	0.6990271	0.4845351	0.74712338
Ube2f	2049.7227	0.15699341	0.17830026	0.88050019	0.3785884	0.66771292
Atp6v1f	5312.81932	0.15695867	0.23193196	0.67674447	0.4985681	0.75683128
Akap6	17.8536773	0.15694978	0.43223237	0.36311436	0.71651946	0.88475417
Fcna	5.58751729	0.1568269	0.37492981	0.41828335	0.67573996	NA
Trim23	2939.3007	0.15676817	0.21467571	0.73025576	0.46523387	0.73427909
Rxfp2	9.59023395	0.15667135	0.42603979	0.36773878	0.71306802	0.88397496
Mgat4c	40.2157647	0.15656219	0.42634512	0.36721937	0.71345539	0.88418475
2810403D21I	65.3938217	0.15655794	0.35703267	0.43849752	0.66102567	0.85541281
Blzf1	2178.3257	0.15654242	0.16789786	0.932367	0.35114689	0.64318216
Mir6976	0.62971883	0.15651483	0.19265504	0.81240975	0.41655655	NA
2210407C18F	0.62971883	0.15651483	0.19265504	0.81240975	0.41655655	NA
Olf1389	0.62971883	0.15651483	0.19265504	0.81240975	0.41655655	NA
Pdxdc1	9424.79752	0.15651431	0.16841463	0.92933915	0.35271335	0.64439796
Prorsd1	1098.19026	0.15641235	0.18513812	0.84484144	0.39819938	0.68409175
Tnfrsf9	27.8298205	0.15640915	0.41584893	0.37612012	0.7068276	0.88068873
Slc4a11	2035.39376	0.1563928	0.20159041	0.77579483	0.43787014	0.71185287
AU019990	8.59391372	0.1563183	0.42803162	0.36520269	0.71496011	0.88465505
Rassf8	224.440981	0.15629055	0.31982271	0.48867871	0.62506918	0.83380089
Aicda	16.6529763	0.15620525	0.42934698	0.36382055	0.71599201	0.88472721

Olfr1393	0.96347665	0.15610775	0.23951104	0.65177683	0.51454515	NA
Wnt2	0.96347665	0.15610775	0.23951104	0.65177683	0.51454515	NA
Duoxa2	0.96347665	0.15610775	0.23951104	0.65177683	0.51454515	NA
Fntb	6587.01242	0.15601015	0.22871291	0.68212217	0.49516171	0.75514952
Ttc30a2	10.9188733	0.15600774	0.4318412	0.36126182	0.71790373	0.88547913
Deptor	5384.14268	0.15600441	0.27303013	0.57138167	0.56774095	0.80306738
A230065H16	3.55127617	0.15593182	0.37293236	0.41812361	0.67585674	NA
Tpst2	2974.06693	0.15591079	0.17267501	0.90291461	0.36657121	0.65694132
Bri3	831.082662	0.15589382	0.22774974	0.68449616	0.49366192	0.75389732
Eif4e2	13577.2052	0.15583182	0.19917208	0.7823979	0.43398077	0.70858066
Imp4	5404.71537	0.15558073	0.19961385	0.77940849	0.43573913	0.70987111
Adamts4	195.091316	0.15549739	0.30337074	0.51256555	0.60825526	0.82562526
Taz	1534.16353	0.15542282	0.22319811	0.69634469	0.48621299	0.7479571
Twist2	2.37571222	0.155406	0.3270161	0.4752243	0.63462711	NA
Rep15	5.65793894	0.15539887	0.40764444	0.38121179	0.7030461	NA
Mc1r	7.23913271	0.15536191	0.41405357	0.37522176	0.70749555	0.88112271
Peo1	3495.79592	0.15529134	0.1756253	0.88421963	0.37657767	0.66655796
Sh3glb2	2346.83007	0.15527241	0.17715985	0.87645375	0.38078341	0.66978428
Btg3	0.62256309	0.15524721	0.1919502	0.808789	0.41863652	NA
1700029F12F	0.62256309	0.15524721	0.1919502	0.808789	0.41863652	NA
Ppil2	6635.37325	0.15521203	0.1642981	0.94469763	0.34481327	0.63773152
Terf2ip	1790.37299	0.15519256	0.20283604	0.76511337	0.44420404	0.71760126
Micalcl	1.45422376	0.15518672	0.26265972	0.59082802	0.55463566	NA
Brca2	7833.0921	0.1551216	0.27170094	0.57092774	0.56804862	0.80306738
Kcnv1	2.74792815	0.15507268	0.29286653	0.52949948	0.596459	NA
Bud31	5181.5209	0.15487566	0.18230786	0.84952813	0.39558749	0.68266819
Gm6607	2.83821375	0.15483791	0.32585215	0.47517842	0.63465981	NA
Cgrrf1	143.135581	0.15477315	0.31798396	0.48673257	0.62644786	0.83466421
Tob2	1659.87688	0.15463539	0.26324308	0.58742434	0.55691875	0.7957956
Dnajb14	491.236189	0.15462294	0.20461475	0.75567838	0.44984205	0.72252568
Fchsd2	1913.2663	0.15462125	0.21282547	0.72651669	0.46752208	0.735927
Gramd4	863.341887	0.1544078	0.26022207	0.59336936	0.55293399	0.79208943
Ttyh2	3425.972	0.15432645	0.24203079	0.6376315	0.52371359	0.77166962
Tmsb15b1	69.9397059	0.15431449	0.36709963	0.42036133	0.67422152	0.86375836
Col8a1	14.116473	0.15414437	0.18976333	0.81229798	NA	NA
Slc35b2	2307.61041	0.15408716	0.1925813	0.80011488	0.42364424	0.70243716
Serp1	9924.37003	0.15405022	0.18672384	0.82501635	0.40936231	0.69272876
Zfp865	980.344589	0.15399577	0.22684331	0.67886406	0.497224	0.75614418
Nkx6-1	1.57427995	0.15398653	0.30050588	0.51242434	0.60835406	NA
Nos1	697.561713	0.15392197	0.38156408	0.40339743	0.68665588	0.87055301
Galnt14	0.90914	0.15382122	0.2342741	0.65658656	0.51144679	NA

Tmem248	7176.8291	0.15380778	0.17973916	0.85572773	0.3921484	0.68008249
Gm648	11.4109638	0.15379855	0.43160332	0.35634238	0.72158417	0.88692345
Gm10125	1.64697921	0.15377944	0.2394504	0.64221837	0.52073141	NA
Mir7036b	3.25203738	0.15358455	0.35571876	0.43175835	0.66591705	NA
Gm7609	0.97063239	0.1534162	0.23724298	0.64666277	0.51785023	NA
Dppa5a	114086.724	0.15339161	0.26176415	0.58599168	0.5578811	0.79640795
Slc38a1	8582.02762	0.15332312	0.20791623	0.73742741	0.46086247	0.73116428
Nostrin	5.48539824	0.15322898	0.37706112	0.40637702	0.6844656	NA
Gnaq	2292.82571	0.15322862	0.20515484	0.74689254	0.45512843	0.72562049
Gm5878	23.2801136	0.15311177	0.4305919	0.35558442	0.72215181	0.8872265
Fabp1	0.61001326	0.15302128	0.19070392	0.80240239	0.42232023	NA
Mir494	0.61001326	0.15302128	0.19070392	0.80240239	0.42232023	NA
Hamp	0.61001326	0.15302128	0.19070392	0.80240239	0.42232023	NA
9230102004l	0.61001326	0.15302128	0.19070392	0.80240239	0.42232023	NA
Rpusd3	999.266275	0.1529606	0.20212937	0.75674604	0.44920202	0.7220415
Csmd1	4.56287998	0.15293596	0.39652493	0.38569066	0.69972578	NA
Usp46	6875.76073	0.15292205	0.16595421	0.92147136	0.35680439	0.64797736
Rbck1	5031.16156	0.15291001	0.17415524	0.87800983	0.37993838	0.66890318
Mfge8	13622.7906	0.15290765	0.32018456	0.47756099	0.6329627	0.83857582
Ccdc71	3391.31668	0.15288766	0.18772796	0.81441069	0.41540972	0.69773996
Psmb11	1.96375869	0.15288184	0.33667134	0.45409818	0.64975816	NA
Acer2	2123.71859	0.15286453	0.19083787	0.80101781	0.42312134	0.70209373
Ceacam19	30.013627	0.15285615	0.42476854	0.3598575	0.7189537	0.88576059
Pou5f2	0.94377108	0.15281889	0.23839535	0.64103133	0.52150233	NA
Mir5098	0.94377108	0.15281889	0.23839535	0.64103133	0.52150233	NA
Hps6	630.310255	0.15280798	0.20830854	0.7335656	0.46321353	0.73297798
Snord83b	113.46374	0.15265595	0.31741935	0.4809283	0.63056746	0.83704264
Cyb561d2	412.607899	0.15254406	0.23696753	0.64373402	0.51974792	0.76969812
Spred1	2239.95796	0.15254368	0.26032107	0.58598286	0.55788704	0.79640795
Samd1	5328.75657	0.15252957	0.19205994	0.7941769	0.42709245	0.70409358
Capn8	1.59398552	0.1525206	0.29704648	0.51345701	0.60763167	NA
Zfp362	383.036651	0.1523739	0.32517011	0.4685975	0.63935737	0.84236323
Mpdu1	5909.00612	0.15235792	0.20213886	0.75372899	0.45101197	0.7229937
Xylt1	113.494835	0.15234325	0.41596757	0.36623829	0.71418728	0.88425449
Spryd3	1147.83245	0.1523402	0.19251049	0.79133454	0.42874879	0.7048133
Sra1	3724.71246	0.1523163	0.21190803	0.71878493	0.47227344	0.73886562
Erh	1859.14145	0.15229844	0.19217199	0.79251112	0.42806271	0.70472095
Bcdin3d	543.112555	0.15224219	0.23683391	0.64282262	0.5203392	0.76986886
Upp1	33951.5748	0.15210947	0.22972985	0.66212321	0.50789227	0.76297979
Dirc2	3131.03383	0.15210685	0.22907256	0.66401164	0.50668286	0.76203338
Rdh5	32.5604707	0.1520731	0.3883515	0.39158623	0.69536396	0.87541586

Cerk	499.973966	0.15194652	0.25612256	0.59325708	0.55300912	0.79210139
Plek	2.86079991	0.1518324	0.33312729	0.45577892	0.64854897	NA
Ppp4r1	6127.88013	0.15182453	0.19904327	0.76277151	0.44559968	0.71882993
Llph	1157.67062	0.151769	0.20181712	0.7520125	0.45204354	0.72396798
Letm1	3056.26939	0.15176794	0.16342799	0.92865333	0.35306878	0.64466039
Epha4	9240.03238	0.1517633	0.31225988	0.48601603	0.6269558	0.83488523
Sik1	5579.58464	0.15169742	0.20126469	0.75372098	0.45101678	0.7229937
1700028P15F	1.28284932	0.15166167	0.22145698	0.68483581	0.49344753	NA
Gpr39	2.31443374	0.15152159	0.25354628	0.59760921	0.55010072	NA
Rel	238.714666	0.15147	0.28669946	0.52832328	0.59727498	0.81955501
Macc1	1.47569099	0.15140672	0.25841945	0.58589521	0.55794594	NA
D3Bwg0562e	1.22725592	0.1513197	0.22292753	0.67878425	0.49727457	NA
Stpg1	157.665369	0.15131634	0.25968241	0.5826977	0.56009682	0.79814554
1700048O20I	127.232248	0.15131103	0.34866629	0.4339709	0.66430957	0.85719825
Fundc2	2781.47379	0.15130788	0.18160905	0.83315162	0.40475922	0.68911875
Mir19a	4.19195919	0.15130077	0.38217535	0.3958936	0.69218353	NA
Nxpe3	1160.42285	0.15127529	0.27141602	0.55735579	0.57728436	0.80734073
Foxo1	1620.39355	0.15125991	0.21372493	0.70773173	0.47911187	0.7432908
Mir211	1.291463	0.15117402	0.28156272	0.53691065	0.59132934	NA
Camkmt	524.368404	0.15116916	0.21518198	0.70251776	0.48235633	0.74506649
Hmx1	16.8597679	0.15111313	0.43165823	0.35007587	0.72628176	0.88950597
Rgs20	5.99068378	0.15108642	0.40268864	0.37519416	0.70751608	0.88112271
Man2b1	5495.98542	0.15106733	0.21917333	0.68925963	0.4906599	0.75160088
Serpinb6c	2617.40644	0.15097583	0.18477808	0.81706568	0.41389089	0.69620522
Abcb1b	4356.46472	0.15077927	0.28575288	0.52765617	0.597738	0.81972425
Prpf40b	2300.45704	0.15072737	0.21418278	0.70373242	0.48159943	0.74482882
4930453N24I	3294.90838	0.15062258	0.16355583	0.92092455	0.35708982	0.64819701
Gm6588	1.94944721	0.15045749	0.33656904	0.44703308	0.65485118	NA
Sec22c	1050.07399	0.15032752	0.19291131	0.77925719	0.43582823	0.70987111
Alg1	1533.9941	0.15026395	0.1795362	0.83695627	0.40261715	0.68712679
BC005537	9808.35684	0.15022475	0.23221586	0.64691856	0.51768465	0.76807205
Wdr60	673.667695	0.1501589	0.20833163	0.7207686	0.4710519	0.73829186
Ccndbp1	1795.32162	0.15003097	0.18681528	0.80309794	0.42191813	0.70127884
Chst4	2.48413633	0.15003081	0.29875448	0.50218766	0.61553552	NA
BC048609	1.60076388	0.15002742	0.30085652	0.49866766	0.61801353	NA
5730457N03I	1.96782237	0.14997472	0.27632947	0.54273877	0.58730968	NA
Gm5434	0.94545907	0.14996662	0.1883856	0.796062	0.425996	NA
Atg101	3142.46251	0.14996436	0.20836444	0.71972144	0.47169652	0.73859646
Cox6c	12840.3453	0.14986718	0.20966904	0.71477971	0.47474517	0.74052205
Csdc2	29.7463737	0.14986195	0.40171503	0.37305537	0.70910723	0.88153317
Atp6v0d2	4.90755417	0.1497602	0.37694209	0.39730294	0.69114408	NA

Rrm2b	1967.27884	0.14958841	0.19783451	0.75612898	0.44957187	0.72235184
Hpse2	3.25908467	0.14955292	0.31340207	0.47719188	0.63322549	NA
Suds3	6329.4659	0.1495187	0.14876713	1.00505202	0.3148718	0.6093449
Nol6	10796.0771	0.14949705	0.23575574	0.63411839	0.52600356	0.77387714
Hoxb1	1.32540639	0.14947268	0.22258396	0.67153389	0.50188047	NA
Sphk2	1881.36615	0.14941811	0.24425251	0.61173622	0.54071229	0.78460548
Phldb1	590.181053	0.14926777	0.31797728	0.46942906	0.63876298	0.84195653
Abt1	2423.08536	0.14922962	0.17363553	0.85944174	0.39009685	0.67839532
Slc6a1	890.396422	0.14916809	0.39775826	0.37502197	0.70764412	0.88112271
Tctex1d4	8.20226725	0.14910027	0.42849004	0.34796671	0.72786519	0.88986097
BC003965	3069.71904	0.14908858	0.2019558	0.7382238	0.46037847	0.73086774
Ogdhl	13277.9248	0.14899211	0.16011337	0.93054133	0.35209087	0.64425364
Zfyve26	4049.71603	0.14898147	0.24058831	0.61923819	0.53575946	0.78040421
A530088E08F	2.63006851	0.14893707	0.32855546	0.45330876	0.65032643	NA
Gm6578	2.50560355	0.14888005	0.2960892	0.50282162	0.61508969	NA
Gbp11	0.97771447	0.14884383	0.18770754	0.79295604	0.42780344	NA
Srpx	0.97771447	0.14884383	0.18770754	0.79295604	0.42780344	NA
Pdia2	10.9652718	0.14877921	0.42855299	0.34716642	0.7284663	0.8900505
Ogn	2.32158948	0.14873049	0.25119356	0.59209515	0.55378688	NA
Msto1	6487.65325	0.14870671	0.1988778	0.74772906	0.4546236	0.72518943
Gm16793	0.9257535	0.14870509	0.18768146	0.79232701	0.42817003	NA
Rdh16	0.9257535	0.14870509	0.18768146	0.79232701	0.42817003	NA
Htr7	0.9257535	0.14870509	0.18768146	0.79232701	0.42817003	NA
A830082K12F	4.1232654	0.14847326	0.35248142	0.42122295	0.67359229	NA
A330040F15F	0.970255	0.148401	0.23947535	0.61969218	0.53546047	NA
Mtx1	4086.8428	0.14837999	0.20051726	0.73998611	0.45930842	0.72986186
Eef2k	2707.55211	0.14828919	0.24867406	0.5963195	0.55096181	0.79097822
Jdp2	1311.18646	0.14822032	0.24443978	0.60636743	0.54427079	0.78623679
Fbxo28	3478.08712	0.14819188	0.18305775	0.80953618	0.4182068	0.6990579
A630066F11F	46.9837043	0.14793621	0.34854384	0.42444076	0.6712444	0.86169074
Fancg	2159.35164	0.1478589	0.19576536	0.75528633	0.4500772	0.72275987
Dna2	8425.01376	0.14782673	0.16956697	0.87178968	0.38332312	0.67244726
10-Mar	1.96853875	0.14777474	0.32336739	0.45698714	0.64768029	NA
Per3	201.262558	0.14769705	0.32595943	0.45311482	0.65046606	0.84904399
Cog7	3346.28535	0.14767109	0.19566352	0.75471958	0.45041726	0.7229269
Sel1l3	2.88453076	0.14764361	0.33148196	0.44540468	0.65602733	NA
Rln1	88.5280881	0.14754815	0.29038096	0.50811921	0.61136974	0.82680328
Akirin1	3980.6013	0.14753838	0.15862762	0.93009261	0.35232314	0.64439796
Ppp2r1b	7235.53485	0.14751743	0.20895254	0.70598532	0.48019727	0.74407463
Tspan11	6.09746121	0.14748909	0.37924512	0.38890173	0.69734884	0.87645821
Xcr1	0.96516464	0.14747947	0.18692827	0.7889629	0.43013369	NA

Srpx2	0.96516464	0.14747947	0.18692827	0.7889629	0.43013369	NA
Mmp25	48.5645636	0.14742034	0.38909718	0.37887794	0.70477851	0.87942876
Fam151b	57.4365079	0.14739079	0.40414782	0.36469526	0.7153389	0.88470138
Rab26os	537.838165	0.14737698	0.32129082	0.45870274	0.64644764	0.84705994
Txndc15	2602.87964	0.14728577	0.17773217	0.82869503	0.407277	0.69113538
Clptm1l	3543.94665	0.14726522	0.18259132	0.80652915	0.41993781	0.70031666
Eci1	2785.24013	0.14718569	0.21769293	0.67611604	0.49896697	0.75696826
Zfp667	1397.02541	0.14713024	0.19291489	0.76266916	0.44566073	0.71885385
Tstd3	2507.11381	0.14706094	0.21645395	0.67940981	0.49687823	0.7560535
Abcb10	2730.34529	0.14705385	0.17518938	0.83939932	0.40124526	0.6864738
Frmd8	3434.25634	0.14704517	0.20299109	0.72439225	0.46882495	0.73665726
Serpina3g	17.1541056	0.14700135	0.43189171	0.34036623	0.73358075	0.892514
Mir700	0.93122125	0.1469913	0.23503413	0.62540404	0.53170591	NA
Krt27	0.93122125	0.1469913	0.23503413	0.62540404	0.53170591	NA
4930552P12F	20.1497457	0.14692073	0.43207055	0.34003876	0.73382734	0.892514
Syna	14.2555581	0.14687977	0.43157457	0.34033462	0.73360455	0.892514
Ctdsp1	2238.17049	0.14686256	0.21173786	0.69360558	0.48792959	0.74917686
Pdss2	722.74173	0.1467694	0.21588828	0.67983957	0.49660605	0.75601768
Gm20750	38.1890466	0.14663627	0.19016332	0.77110705	NA	NA
St7	260.468222	0.14659978	0.2375852	0.61704087	0.53720777	0.78112371
B3gat2	1.59391186	0.14658148	0.23709553	0.61823804	0.53641844	NA
Siah3	0.9168361	0.14657895	0.18644929	0.78615989	0.43177382	NA
Ptpr	2.68061043	0.14638791	0.33058178	0.44281904	0.65789663	NA
Ptgr2	3206.26717	0.14638266	0.20271954	0.72209449	0.47023639	0.73786621
Gm13498	17.6029136	0.14637614	0.43202027	0.33881775	0.73474703	0.89307887
B020004J07R	6.20630395	0.14621588	0.35537906	0.41143638	0.68075258	0.86681269
Araf	3715.16429	0.14621526	0.14714698	0.9936681	0.32038448	0.61426445
Tdrd6	1.42460938	0.14614782	0.2569524	0.56877391	0.56950958	NA
Rhox3a	0.90428628	0.14611264	0.18618916	0.78475376	0.43259796	NA
Clp1	3522.71706	0.14601933	0.16445333	0.88790742	0.37459055	0.6642255
Rnf34	5660.07035	0.1459452	0.15619763	0.93436242	0.35011697	0.64198433
5830416P10F	45.634172	0.14593432	0.43190024	0.33788896	0.73544687	0.89343006
B130034C11F	5.92590765	0.14587277	0.40954114	0.35618587	0.72170137	0.8869273
1110058L19F	1008.48455	0.1458638	0.22534907	0.64727936	0.51745116	0.76803758
Prkcsh	11034.6421	0.1457999	0.18875705	0.77242095	0.43986515	0.71394875
Insm1	10.5993896	0.14571515	0.41195172	0.353719	0.72354948	0.88807561
Nlrp12	28.0405179	0.14569557	0.41408458	0.35184979	0.72495092	0.88888368
Lrp10	2104.94002	0.14566024	0.22306684	0.65298923	0.51376322	0.76592775
Mbd6	2328.5724	0.14563159	0.20895671	0.69694626	0.48583643	0.74775368
Txlnb	570.687321	0.14552998	0.35136601	0.41418342	0.67873978	0.86604267
4930412O13I	0.90604793	0.14526949	0.18569314	0.78230939	0.43403277	NA

Vipr2	0.90604793	0.14526949	0.18569314	0.78230939	0.43403277	NA
Anks3	1377.52342	0.14518166	0.16753347	0.86658301	0.38617053	0.67521226
Fam13a	102.75497	0.14514293	0.33130104	0.43809983	0.66131392	0.85550654
Bcl2l1	2904.52592	0.14512735	0.18527193	0.78332076	0.43343877	0.7084618
Polr2i	3418.75194	0.14504483	0.21389033	0.67812711	0.4976911	0.75633679
Snora62	23.8453906	0.14491743	0.41920202	0.34569831	0.72956946	0.89040454
Avpr1a	1.125246	0.14482953	0.2175872	0.66561604	0.50565655	NA
Zfp384	3088.82543	0.14472188	0.20350539	0.71114522	0.47699425	0.7420212
Gm12238	9.58680947	0.144717	0.43031157	0.33630749	0.736639	0.89391128
Ahrr	70.4032909	0.14456325	0.32090167	0.45049078	0.6523566	0.85029773
Rab27b	2.85646072	0.14446853	0.29931034	0.48267135	0.62932911	NA
E330011O21l	11.2780055	0.14444571	0.43016976	0.33578768	0.73703098	0.89391803
Cd247	5.46644384	0.14436108	0.39457774	0.36586221	0.7144679	NA
Serinc2	223.368303	0.14433183	0.31921625	0.45214437	0.65116498	0.8494066
Cdc6	6452.59916	0.14416696	0.19698284	0.73187573	0.46424442	0.73383462
Atp6v0e	4408.53893	0.14412997	0.19441703	0.74134436	0.45848467	0.72916661
Dclk1	11.9749211	0.14411286	0.42599514	0.33829695	0.73513942	0.89329078
Rnaseh2c	1280.30863	0.14409203	0.24660128	0.58431177	0.55901057	0.79717317
Fam192a	4257.17104	0.14405865	0.18872897	0.7633097	0.44527872	0.71865423
Mkxn1	20275.6702	0.14405729	0.2479929	0.5808928	0.56131271	0.79905798
Tmem223	813.91639	0.14401147	0.22513281	0.63967341	0.52238494	0.77084692
Cc2d1b	5196.28668	0.14385005	0.20666022	0.69607031	0.4863848	0.7479826
Fancm	8129.81144	0.14377941	0.28543839	0.50371434	0.61446213	0.82915219
Prrg2	409.298371	0.14373601	0.3317665	0.43324449	0.66483716	0.85750043
Zfp64	4205.63703	0.14364499	0.1891704	0.75934178	0.44764813	0.72071395
Ndufb2	2985.5342	0.14362809	0.21918073	0.65529524	0.51227769	0.76528308
Eid2b	444.61881	0.14357199	0.20982127	0.68425848	0.49381196	0.75397838
Ssr1	16486.8687	0.14348187	0.17818346	0.80524797	0.4206766	0.70091929
Fam133b	2578.61606	0.14347937	0.17029266	0.84254584	0.39948249	0.68486983
Thbs4	4.26801517	0.14323274	0.39304091	0.36442197	0.71554293	NA
2810408M09	608.180381	0.14315328	0.21971285	0.65154715	0.51469335	0.76641122
Cep95	1986.47917	0.14290363	0.17554802	0.81404299	0.41562032	0.69777304
Klf4	18827.536	0.14289721	0.17955953	0.79582077	0.42613622	0.70402942
Adpgk	6848.96833	0.14289197	0.15131012	0.94436495	0.34498319	0.63773152
Abhd10	1887.75453	0.14288867	0.16559953	0.86285674	0.38821624	0.67734216
2700038G22l	549.335515	0.14288154	0.26933073	0.53050591	0.59576122	0.81869046
Olr1	1.31316028	0.14281985	0.18395042	0.77640402	0.43751047	NA
Hao1	1.31316028	0.14281985	0.18395042	0.77640402	0.43751047	NA
Inpp5a	1432.75769	0.14279313	0.22560151	0.63294405	0.52677018	0.77441889
Tsg101	4048.13674	0.14271514	0.18497943	0.77151899	0.44039937	0.71440317
Actg1	13354.2321	0.14263372	0.21686894	0.65769546	0.51073384	0.76473508

Bcap31	9106.72568	0.14261479	0.15784757	0.90349688	0.36626224	0.65672134
Dnttip1	1627.53105	0.14245039	0.16868816	0.84445991	0.39841246	0.68438221
Dnah17	532.52604	0.14244763	0.37394269	0.38093438	0.70325194	0.87926282
Tm2d1	1140.24038	0.14242113	0.25824866	0.55148838	0.58129893	0.80936339
Zbtb34	3130.05649	0.14240619	0.23941483	0.59480939	0.55197089	0.79170811
2410015M20	4244.00135	0.14239865	0.21940344	0.64902651	0.51632124	0.76725386
Ybey	418.854708	0.1423956	0.20461074	0.69593415	0.48647007	0.7479826
Kcmf1	7793.73306	0.14238766	0.15559698	0.91510559	0.3601362	0.65121838
Prkc	2035.11091	0.14237679	0.20503014	0.69441884	0.48741958	0.74885022
Pgam5	6048.3901	0.14235494	0.16421284	0.86689285	0.38600072	0.67506716
Dab2ip	5990.4553	0.14233475	0.23692755	0.60075221	0.54800504	0.78881129
DQ267101	2.28798509	0.14223762	0.34554446	0.41163334	0.68060819	NA
Atat1	815.376103	0.14210622	0.2078443	0.68371478	0.49415529	0.75428042
Asgr1	3.41161676	0.14197162	0.3746992	0.37889492	0.70476589	NA
Flot1	1317.47655	0.14194896	0.2548057	0.55708707	0.57746794	0.80735449
Pdzd9	1.57967404	0.14186494	0.28950248	0.49003014	0.62411257	NA
Trpt1	339.603593	0.14184233	0.26085047	0.54376872	0.58660063	0.81285599
Zc3h4	5454.21618	0.14173365	0.27320072	0.51878943	0.60390759	0.82288924
Ubt1	1126.11768	0.1416281	0.18004983	0.78660506	0.4315131	0.70688509
Zfp78	441.877855	0.14158334	0.22495409	0.62938769	0.52909527	0.77604138
Ino80b	756.861762	0.14154259	0.23609081	0.59952603	0.54882216	0.78930301
E130201H02I	4.80075097	0.14149437	0.40780076	0.34696937	0.72861433	NA
Etnk1	13345.6032	0.14140819	0.24285403	0.58227646	0.56038048	0.79834183
Zadh2	429.137086	0.14138463	0.23803253	0.59397186	0.55253093	0.79185407
H2afb1	1.79000857	0.14135141	0.27252516	0.51867289	0.60398887	NA
Mllt6	14906.1956	0.14132156	0.18369962	0.76930786	0.44171057	0.71556426
Nfkbil1	692.984896	0.14131897	0.22015966	0.6418931	0.5209426	0.76986886
Sorbs1	1739.39483	0.14127608	0.30077904	0.46970054	0.63856898	0.84187189
Ube2d2b	3.57312078	0.14122396	0.35262442	0.40049399	0.68879271	NA
Ifi202b	1.14901525	0.14120628	0.1830899	0.77124014	0.44056461	NA
Galnt16	1.14901525	0.14120628	0.1830899	0.77124014	0.44056461	NA
Mndal	1.14901525	0.14120628	0.1830899	0.77124014	0.44056461	NA
S100z	1.43414081	0.14110501	0.25857054	0.54571187	0.58526401	NA
Lzic	2862.83525	0.14103229	0.15968302	0.88320156	0.37712738	0.66712636
Pth2r	2.2876077	0.14087562	0.35160909	0.40065978	0.68867062	NA
Pdzd8	4447.93247	0.1408273	0.22376705	0.62934779	0.52912139	0.77604138
Cox11	1850.11232	0.1408026	0.16912353	0.83254293	0.40510255	0.68916712
Ppp1r1a	1319.32382	0.140777	0.32328848	0.4354532	0.6632335	0.85649761
Col25a1	2.43882552	0.1407637	0.3331155	0.42256724	0.67261103	NA
Csnk1g3	2854.85823	0.14060438	0.18528732	0.75884514	0.4479452	0.7208937
Dnase1	3.33821726	0.14049662	0.36168446	0.38845081	0.69768245	NA

Mtor	6858.57849	0.14046727	0.21257495	0.66078937	0.5087474	0.76362746
Wfdc1	3.50069946	0.14037446	0.37113046	0.37823481	0.70525617	NA
Al646519	1.2602277	0.14033407	0.25444984	0.55151958	0.58127755	NA
Rps6kb2	889.848968	0.14028404	0.20816828	0.67389727	0.50037663	0.75782595
Tatdn2	3209.87829	0.14020766	0.21459531	0.65335844	0.51352523	0.76592775
Mir668	1.91519351	0.14020628	0.31657849	0.44288001	0.65785253	NA
Def6	2247.50619	0.14002816	0.17879828	0.78316277	0.43353153	0.70847508
Trim2	2092.79238	0.13993735	0.27715512	0.50490624	0.61362469	0.82850171
Pomgnt2	169.42749	0.13989781	0.319961	0.43723393	0.66194171	0.8559667
Tm4sf19	3.79921217	0.13979703	0.37677567	0.37103519	0.71061132	NA
Pfdn1	11020.2549	0.13968988	0.23103002	0.60463952	0.54541854	0.78666331
Rhox4f	1.14017151	0.13956122	0.21849277	0.63874527	0.52298865	NA
Flywch1	1350.1716	0.1395058	0.23797866	0.5862114	0.55773346	0.79637435
Umps	10941.9449	0.13947753	0.21382996	0.65228244	0.51421898	0.76610648
Slc35f2	6341.40001	0.13941777	0.27880993	0.50004593	0.61704274	0.83032065
Olf787	1.11985191	0.13939077	0.21398503	0.65140432	0.51478552	NA
Usf1	4179.66969	0.13938291	0.19514028	0.71427032	0.47506004	0.7406365
Sod1	33492.1061	0.13931793	0.20025816	0.69569163	0.48662197	0.74804065
Cdc42bpb	5442.73173	0.13929767	0.21701338	0.64188519	0.52094773	0.76986886
Phox2b	1.14732726	0.13925386	0.21800644	0.63876032	0.52297886	NA
Gli3	922.218644	0.13912035	0.26988144	0.51548692	0.60621281	0.8242033
Ctla2a	0.98487021	0.1391178	0.18196363	0.76453628	0.44454773	NA
Mmp1b	0.98487021	0.1391178	0.18196363	0.76453628	0.44454773	NA
Adam20	0.98487021	0.1391178	0.18196363	0.76453628	0.44454773	NA
Obox2	0.98487021	0.1391178	0.18196363	0.76453628	0.44454773	NA
Olf837	0.98487021	0.1391178	0.18196363	0.76453628	0.44454773	NA
Mnda	0.98487021	0.1391178	0.18196363	0.76453628	0.44454773	NA
4933428C19F	0.98487021	0.1391178	0.18196363	0.76453628	0.44454773	NA
2900052N01I	9.65427588	0.1391119	0.41864582	0.33229019	0.73967015	0.89521445
Prss39	3.05076099	0.13907223	0.3452492	0.40281695	0.68708289	NA
2610001J05R	2205.30123	0.13900176	0.16979798	0.81863025	0.4129974	0.69515344
Adal	2416.86097	0.13871967	0.16846923	0.82341249	0.41027346	0.69309338
Snord92	1.80707312	0.13871921	0.26982702	0.51410424	0.60717911	NA
Mul1	1680.49689	0.13868746	0.22008344	0.63015857	0.52859085	0.77562901
Gm20753	0.88634236	0.13864779	0.1817658	0.76278257	0.44559308	NA
Pinx1	1603.32558	0.13863758	0.21807413	0.63573604	0.52494848	0.77262188
Nos2	17.9944798	0.13858341	0.43058541	0.32184883	0.74756722	0.90028791
Sqrdl	1.56850848	0.13857361	0.29479313	0.47007068	0.63830452	NA
Pax3	14.2394261	0.13855354	0.42207051	0.32827107	0.74270672	0.89701854
Stx5a	2880.96452	0.13848979	0.16971987	0.81599042	0.41450561	0.69678703
Ece2	1812.75099	0.13846533	0.25163194	0.5502693	0.58213468	0.81000763

Lta4h	5926.2202	0.13827148	0.16921853	0.81711784	0.41386109	0.69620522
Mterf1a	343.198625	0.13823175	0.26280074	0.5259945	0.59889203	0.82005546
Hoxc13	1061.19278	0.13812079	0.19830997	0.69648938	0.4861224	0.7479571
Rapsn	599.501583	0.13811687	0.22145819	0.6236702	0.5328442	0.77885705
Gm4832	3.83398107	0.13797979	0.3583832	0.38500631	0.70023274	NA
Sumo1	10696.5944	0.13795882	0.17234542	0.80047858	0.42343357	0.7023054
Htr6	12.5882894	0.1379417	0.42896759	0.32156671	0.74778097	0.9004756
Scfd2	781.704617	0.13790983	0.2047463	0.67356445	0.50058826	0.75785125
2210409E12F	4260.24816	0.13786774	0.4322721	0.3189374	0.74977398	0.90092221
Cmpk2	67.5785285	0.1377249	0.40837636	0.33724993	0.7359285	0.89366094
Tlr6	3.69781628	0.13772278	0.39154461	0.35174224	0.72503158	NA
Arf2	2396.09051	0.13765434	0.23070645	0.59666446	0.55073143	0.79097822
Ndufb6	4709.19992	0.13758286	0.17761148	0.77462819	0.43855939	0.71220104
1110051M20	719.155838	0.13744977	0.28801551	0.47723043	0.63319804	0.83875001
Zc3hc1	6441.09253	0.13742891	0.21170716	0.64914624	0.51624385	0.76721217
Tspan6	433.034492	0.13736902	0.26176132	0.52478733	0.59973104	0.82033754
Ube2m	5536.34914	0.13728745	0.18214222	0.75373764	0.45100677	0.7229937
Chic2	1377.79035	0.13722107	0.16091481	0.85275603	0.39379461	0.68150459
Meaf6	2011.26881	0.13713094	0.20154742	0.68039043	0.49625728	0.75578268
Spata2	1633.99363	0.13668167	0.23940417	0.57092434	0.56805093	0.80306738
Olfr1344	1.50253975	0.13644472	0.23357564	0.58415645	0.55911506	NA
Casp12	0.82072518	0.13630775	0.1804256	0.75547899	0.44996163	NA
Ccl20	0.82072518	0.13630775	0.1804256	0.75547899	0.44996163	NA
Serpib9e	0.82072518	0.13630775	0.1804256	0.75547899	0.44996163	NA
Ch25h	0.82072518	0.13630775	0.1804256	0.75547899	0.44996163	NA
Adcy3	1568.56269	0.13627284	0.26083297	0.52245249	0.60135532	0.82154763
Cd52	12.619113	0.13624804	0.37196748	0.36629019	0.71414855	0.88425449
Ifi205	0.81356943	0.136178	0.18035395	0.75505973	0.45021314	NA
Naa40	9459.17495	0.13611175	0.18995179	0.71655942	0.47364599	0.73992114
Acsm4	3.12566935	0.13610151	0.37195494	0.3659086	0.71443328	NA
Cyb561	2065.30957	0.13606495	0.20540915	0.6624094	0.50770888	0.76283872
Sh3bgrl2	3612.82754	0.13605918	0.2074382	0.65590224	0.51188703	0.76528308
Crisp2	0.80641369	0.13604669	0.18028137	0.75463532	0.45046783	NA
Mttr11	186.753445	0.13602037	0.32044012	0.42447983	0.67121591	0.86169074
Nipa2	3550.87864	0.13601201	0.19661882	0.6917548	0.48909132	0.75015871
Lrrtm1	0.80101961	0.13594357	0.18022434	0.75430195	0.45066793	NA
Mgam	0.80101961	0.13594357	0.18022434	0.75430195	0.45066793	NA
4933406I18R	0.80101961	0.13594357	0.18022434	0.75430195	0.45066793	NA
Cst7	0.80101961	0.13594357	0.18022434	0.75430195	0.45066793	NA
Mrpl28	4771.56717	0.13594326	0.20150309	0.67464601	0.49990069	0.75754781
Wdr1	9822.62258	0.13590832	0.20390466	0.66652878	0.50507317	0.7607897

Rad52	781.858435	0.13580717	0.19218604	0.70664427	0.47978757	0.74388599
Sel1l2	0.79210221	0.13577403	0.18013342	0.75374151	0.45100445	NA
Mir496	0.78494647	0.13563791	0.18005798	0.7533013	0.45126888	NA
Gfral	0.78131403	0.13556167	0.1800157	0.7530547	0.45141704	NA
lqck	30.4212622	0.13555761	0.43215132	0.3136809	0.75376341	0.90191816
Mgmt	1432.14594	0.13539127	0.29423358	0.46014895	0.64540931	0.84629525
Gpr22	0.76160846	0.1351771	0.17979929	0.75182218	0.452158	NA
Crnn	0.76160846	0.1351771	0.17979929	0.75182218	0.452158	NA
Snord82	2.32162476	0.1351631	0.34111613	0.39623777	0.69192963	NA
Cntf	15.5756609	0.1351531	0.43020109	0.31416262	0.75339753	0.90191816
Dhh	30.98998	0.13509663	0.40065321	0.33719093	0.73597297	0.89366094
Lmln	376.116355	0.1350254	0.2732818	0.49408851	0.62124367	0.83196874
C8a	4.23458333	0.13499794	0.30956341	0.43609141	0.66277041	NA
Snhg12	3035.03472	0.13499661	0.18983083	0.71114169	0.47699644	0.7420212
Ubap1	4240.57931	0.13498477	0.1678512	0.80419307	0.42128548	0.70106052
Gsdmcl-ps	1.10252203	0.13493546	0.21662384	0.62290218	0.5333488	NA
Mir412	0.74729698	0.13488809	0.17963851	0.75088629	0.45272109	NA
Mir26b	0.74729698	0.13488809	0.17963851	0.75088629	0.45272109	NA
Zfp597	1331.60458	0.1348437	0.18735905	0.71970744	0.47170515	0.73859646
Uap1l1	3852.26881	0.13481091	0.25945423	0.51959419	0.60334645	0.82274997
Arl14	0.74190289	0.13477367	0.17957477	0.75051561	0.45294423	NA
Bhlhe41	82.0512257	0.13471589	0.43212533	0.3117519	0.75522908	0.90191816
Terc	10.3411668	0.13470907	0.4196531	0.32100102	0.74820962	0.90057336
Alg5	2196.1387	0.13467864	0.2094431	0.6430321	0.52020327	0.76986886
Slc13a2os	5.5586473	0.13467634	0.411421	0.32734435	0.74340746	NA
Slc25a42	643.632704	0.1346715	0.23502838	0.573001	0.56664402	0.80239311
Kifc2	502.076688	0.13462029	0.27060081	0.49748663	0.61884593	0.83090659
Uchl4	115.889841	0.13459666	0.30836715	0.43648183	0.66248718	0.85619416
Pitpnm1	102.697682	0.13458005	0.34484826	0.39025876	0.69634522	0.87602538
Mmp11	1988.74911	0.13452687	0.23416961	0.57448476	0.56563981	0.80162806
Msln	976.803037	0.13445881	0.43221212	0.31109449	0.75572879	0.90203956
1810055G02I	2055.78835	0.13444965	0.18486898	0.7272699	0.46706064	0.73566899
Trib3	2600.93896	0.13444886	0.21116715	0.63669401	0.52432417	0.77206375
Arhgef2	4297.62834	0.13444384	0.1991042	0.6752436	0.49952101	0.75725268
4930570G19I	1.88771817	0.13437992	0.30644294	0.43851531	0.66101278	NA
Lrrc14b	1.64078905	0.13435502	0.29032244	0.46277862	0.64352306	NA
Fth1	23605.3749	0.13432832	0.1836769	0.73132943	0.46457796	0.73397175
Sytl1	135.179676	0.13431648	0.31135332	0.43139568	0.66618069	0.8585804
Mir7036	3.04763053	0.13420449	0.34592153	0.38796223	0.69804399	NA
Etfa	8420.16761	0.13415597	0.17456649	0.76850929	0.44218467	0.7159317
Furin	2169.11768	0.13413403	0.17841116	0.75182532	0.45215612	0.72407371

Ing2	1913.01419	0.13407004	0.16910434	0.7928244	0.42788014	0.70472095
Ankrd34b	82.5300079	0.13404116	0.39446329	0.33980643	0.73400231	0.89252476
Baalc	5.27934178	0.13395005	0.36194866	0.37008026	0.71132269	NA
G730013B05I	6.30182968	0.13394614	0.40544886	0.33036506	0.74112414	0.89614524
Ccl9	1.14193317	0.13392242	0.21436241	0.6247477	0.53213666	NA
Sntb2	3928.44276	0.1338988	0.22081845	0.60637507	0.54426572	0.78623679
Cbll1	2561.76702	0.13385624	0.21391771	0.62573708	0.53148741	0.7782358
4931440P22F	9.60396383	0.13382044	0.43193776	0.30981416	0.75670228	0.90276004
Kpna1	7958.44223	0.1337548	0.19625039	0.68155178	0.49552242	0.75533199
Zfp787	370.325128	0.13372413	0.26918737	0.4967697	0.61935147	0.83094942
Syde2	2258.86574	0.13350114	0.25945141	0.5145516	0.6068664	0.82465741
Cdcp1	124.202056	0.13346248	0.38859955	0.34344476	0.73126389	0.89152719
E130309D02I	1568.95813	0.13341017	0.21155921	0.63060439	0.52829923	0.77552483
Nfat5	2394.11478	0.13319514	0.29922833	0.44512879	0.65622668	0.85271673
Ap2s1	4245.03098	0.13314569	0.20050304	0.66405821	0.50665305	0.76203338
Necap2	2619.09542	0.13313772	0.17718184	0.75141856	0.4524008	0.72418447
Slc38a8	79.5297428	0.13311978	0.41693315	0.31928327	0.74951172	0.90084943
Xlr3c	1528.48745	0.13310595	0.43112495	0.308741	0.75751855	0.90301693
Prr22	13.5369734	0.13308937	0.43217458	0.30795278	0.75811826	0.90307174
Synpo	27.0987879	0.133085	0.41916309	0.31750171	0.75086294	0.90104712
Slfn11	1.7503321	0.13288292	0.27600559	0.48145012	0.63019662	NA
Cdan1	2600.11798	0.13279142	0.20377724	0.65164991	0.51462704	0.76641122
Ndfip2	2028.892	0.13276727	0.17035578	0.77935287	0.43577188	0.70987111
Dact3	511.13755	0.13268464	0.2640989	0.50240513	0.61538257	0.8296328
2310015A10F	107.664157	0.13265542	0.36889187	0.35960516	0.71914243	0.88581258
Shroom2	2541.04323	0.13262942	0.25720491	0.51565666	0.60609423	0.82418428
Mccc1	3781.9576	0.1325342	0.30466118	0.43502162	0.66354674	0.85668869
Nup35	872.180604	0.13252261	0.19126358	0.69287948	0.48838519	0.74944524
Hrh1	18.1418651	0.13250578	0.43151624	0.3070702	0.75878994	0.90331943
Shf	1355.35293	0.13250192	0.23836522	0.55587772	0.57829445	0.80771125
Atp1a3	447.043693	0.13237223	0.32093348	0.41246002	0.68000228	0.86642486
Cyp2c66	0.65658014	0.13232197	0.17819826	0.74255479	0.45775127	NA
Ccdc110	0.65658014	0.13232197	0.17819826	0.74255479	0.45775127	NA
Aspn	0.65658014	0.13232197	0.17819826	0.74255479	0.45775127	NA
Adamts12	0.65658014	0.13232197	0.17819826	0.74255479	0.45775127	NA
Gm2115	0.65658014	0.13232197	0.17819826	0.74255479	0.45775127	NA
Tnfsf15	0.65658014	0.13232197	0.17819826	0.74255479	0.45775127	NA
Gm9125	0.65658014	0.13232197	0.17819826	0.74255479	0.45775127	NA
Vmn2r117	0.65658014	0.13232197	0.17819826	0.74255479	0.45775127	NA
Npas4	0.65658014	0.13232197	0.17819826	0.74255479	0.45775127	NA
Spam1	0.65658014	0.13232197	0.17819826	0.74255479	0.45775127	NA

Al607873	0.65658014	0.13232197	0.17819826	0.74255479	0.45775127	NA
Inhba	0.65658014	0.13232197	0.17819826	0.74255479	0.45775127	NA
Stx19	0.65658014	0.13232197	0.17819826	0.74255479	0.45775127	NA
Krt86	0.65658014	0.13232197	0.17819826	0.74255479	0.45775127	NA
Gtf2a2	4030.65989	0.13227687	0.18505833	0.71478474	0.47474206	0.74052205
Cc2d1a	2068.0919	0.13223774	0.28817873	0.45887405	0.64632461	0.84705994
Nop10	7363.20065	0.13222988	0.19410128	0.68124165	0.4957186	0.75548019
Nkapl	19.9582238	0.13221603	0.41247653	0.32054194	0.74855754	0.900659
Mgat4b	2064.96834	0.132175	0.1590535	0.8310097	0.40596815	0.68991262
Tbx10	0.6494244	0.13213675	0.17809342	0.7419519	0.45811648	NA
Fndc8	0.6494244	0.13213675	0.17809342	0.7419519	0.45811648	NA
Slc26a7	0.6494244	0.13213675	0.17809342	0.7419519	0.45811648	NA
Chrna6	0.6494244	0.13213675	0.17809342	0.7419519	0.45811648	NA
Dgke	2653.40196	0.13199863	0.22970855	0.57463523	0.56553802	0.80155685
Reg1	1.43552507	0.13195809	0.25651429	0.51442784	0.6069529	NA
Adat1	1791.11804	0.13183909	0.18121562	0.72752608	0.46690375	0.73559557
Zxdb	114.307592	0.13182121	0.35929991	0.36688349	0.71370593	0.88418475
Trp53inp1	32345.6505	0.13180985	0.20819533	0.63310668	0.52666398	0.77433597
Gm10390	0.63687457	0.13179637	0.17790268	0.74083408	0.45879405	NA
Gm6377	0.63687457	0.13179637	0.17790268	0.74083408	0.45879405	NA
Fap	0.63687457	0.13179637	0.17790268	0.74083408	0.45879405	NA
Anks4b	0.63687457	0.13179637	0.17790268	0.74083408	0.45879405	NA
Atp1b4	0.63687457	0.13179637	0.17790268	0.74083408	0.45879405	NA
Fscb	0.63687457	0.13179637	0.17790268	0.74083408	0.45879405	NA
Grem2	0.63687457	0.13179637	0.17790268	0.74083408	0.45879405	NA
Rnf133	0.63687457	0.13179637	0.17790268	0.74083408	0.45879405	NA
Tlr9	0.63687457	0.13179637	0.17790268	0.74083408	0.45879405	NA
Olf1056	0.63511292	0.13175469	0.17787902	0.74069829	0.4588764	NA
Fam150b	0.63511292	0.13175469	0.17787902	0.74069829	0.4588764	NA
Mogat1	0.63511292	0.13175469	0.17787902	0.74069829	0.4588764	NA
Mirlet7a-1	0.63511292	0.13175469	0.17787902	0.74069829	0.4588764	NA
4921504E06F	0.63511292	0.13175469	0.17787902	0.74069829	0.4588764	NA
Far2	2.01007638	0.13168395	0.28053086	0.46940987	0.6387767	NA
Rela	1246.86186	0.13162288	0.19971084	0.65906726	0.50985258	0.76423377
R74862	160.42239	0.13157246	0.32341016	0.40682847	0.68413398	0.8689837
4933433H22I	0.62795718	0.13156563	0.17776939	0.74009156	0.45924444	NA
Htr3b	0.62795718	0.13156563	0.17776939	0.74009156	0.45924444	NA
Ms4a4d	1.67340203	0.13155557	0.20177209	0.65200085	0.51440063	NA
Klhl18	482.558648	0.13154927	0.24669405	0.53324866	0.59386146	0.81755839
Fmnl3	1812.35267	0.13153791	0.20891127	0.62963532	0.52893321	0.77598494
Rrm2	25980.3939	0.13151169	0.2678276	0.49103112	0.62340444	0.83265488

4933422A05f	3.32302641	0.13134989	0.3557668	0.36920221	0.71197701	NA
Ttll9	29.4015256	0.1312879	0.41522488	0.31618506	0.75186205	0.90161989
Sod3	0.617169	0.13125805	0.17759441	0.73908887	0.45985303	NA
Unc13c	0.617169	0.13125805	0.17759441	0.73908887	0.45985303	NA
Gpr151	0.617169	0.13125805	0.17759441	0.73908887	0.45985303	NA
Ren2	0.617169	0.13125805	0.17759441	0.73908887	0.45985303	NA
Ubb	18908.013	0.1312418	0.15835487	0.82878285	0.40722729	0.69113538
Gm10549	0.61540735	0.13121487	0.17756982	0.73894803	0.45993856	NA
Slamf1	0.61540735	0.13121487	0.17756982	0.73894803	0.45993856	NA
Gpr183	0.61540735	0.13121487	0.17756982	0.73894803	0.45993856	NA
Gm20554	13.3464001	0.13121029	0.43194154	0.30376863	0.76130417	0.90466935
Phf2	1184.19022	0.1311975	0.21902163	0.59901617	0.5491621	0.78964585
Tarbp2	2304.57886	0.13108539	0.20408402	0.6423109	0.52067134	0.76986886
Lgals3	493.940223	0.1310315	0.34805848	0.37646405	0.70657194	0.88063557
Arl9	1.68106993	0.13092359	0.26722654	0.48993485	0.62418	NA
Aspdh	0.60285752	0.13085517	0.17736471	0.73777457	0.46065145	NA
Isx	0.60285752	0.13085517	0.17736471	0.73777457	0.46065145	NA
Ucn2	0.60285752	0.13085517	0.17736471	0.73777457	0.46065145	NA
Mir7005	0.59746343	0.13069425	0.1772728	0.73724932	0.46097075	NA
A230057D06f	0.59746343	0.13069425	0.1772728	0.73724932	0.46097075	NA
Lcn12	1.28770304	0.1306334	0.25104199	0.52036474	0.60280938	NA
Spen	5321.43605	0.13061571	0.28169624	0.46367572	0.6428801	0.84452005
Caskin2	1421.94934	0.1304868	0.27567805	0.47333038	0.63597749	0.83999371
Gm9054	0.59030769	0.13048627	0.17715387	0.73657023	0.46138375	NA
Slco1c1	0.59030769	0.13048627	0.17715387	0.73657023	0.46138375	NA
Mir369	0.59030769	0.13048627	0.17715387	0.73657023	0.46138375	NA
Insig2	1441.0956	0.1304746	0.17802893	0.73288428	0.46362901	0.73330907
Creg1	2130.08401	0.13039108	0.2555686	0.51019994	0.60991139	0.82596711
Gm933	8.38549412	0.13031916	0.4217893	0.30896743	0.7573463	0.90301693
4933412E24f	1.11816392	0.13028003	0.27223172	0.47856303	0.63224953	NA
Fgf2	1.96100562	0.13015976	0.31504183	0.41315072	0.67949619	NA
Cldn10	0.57775786	0.13010788	0.17693712	0.73533403	0.46213609	NA
Bpifb6	0.57775786	0.13010788	0.17693712	0.73533403	0.46213609	NA
Smco1	0.57775786	0.13010788	0.17693712	0.73533403	0.46213609	NA
Adh6-ps1	0.57775786	0.13010788	0.17693712	0.73533403	0.46213609	NA
C1qbp	22999.0189	0.12995683	0.16352031	0.79474429	0.42676226	0.70402942
Ckmt1	3412.5791	0.12988617	0.32234598	0.40294024	0.68699219	0.87068415
Lpar4	180.609425	0.12984949	0.34154948	0.38017768	0.70381353	0.87942876
Lpar3	5.48939123	0.12968959	0.40770492	0.31809671	0.75041158	NA
Duox2	4.33425893	0.12965441	0.39226541	0.33052726	0.7410016	NA
Lypla2	2008.49703	0.12957211	0.24253136	0.5342489	0.59316934	0.81705522

Ptpn3	1970.98125	0.12951489	0.1929424	0.67126193	0.50205368	0.75896148
Ppard	1826.83114	0.1295106	0.19155791	0.6760911	0.49898281	0.75696826
Ttll5	1476.80765	0.12932754	0.24581863	0.52610958	0.59881207	0.82005546
Psmc1	16792.6797	0.12932081	0.1526506	0.84716872	0.39690109	0.68311652
Thyn1	8796.22747	0.12930632	0.23314331	0.55462161	0.5791535	0.80818522
Prkcdbp	74.4859682	0.12923306	0.39384622	0.32813077	0.74281279	0.89706312
Zfp593	1841.50065	0.12917716	0.20250648	0.6378915	0.52354431	0.77157293
Dusp5	129.663233	0.12901717	0.36896712	0.34967118	0.72658548	0.88950597
Zbtb7b	1910.3152	0.12899694	0.29842242	0.4322629	0.66555035	0.8581356
Hscb	1464.49848	0.12896048	0.22969369	0.56144548	0.57449388	0.806724
Ppp2r5e	4373.08979	0.12888312	0.20079065	0.64187808	0.52095235	0.76986886
Pde11a	11.4839834	0.12884218	0.40540489	0.31781112	0.75062821	0.90097402
3-Mar	43.9376993	0.12880268	0.39725551	0.32423131	0.74576292	0.89888072
Chac2	270.39755	0.12877736	0.26191206	0.49168168	0.62294439	0.83253766
Ube2d2a	3848.54125	0.12870985	0.16704438	0.77051289	0.44099571	0.71503747
Mir7059	2.3287805	0.12869179	0.33364737	0.38571199	0.69970998	NA
Atp2b4	4448.80274	0.12867407	0.17770095	0.72410457	0.46900154	0.73676921
5430440P10F	2.58887348	0.12862417	0.35144245	0.36598927	0.71437308	NA
Cdc23	14523.2646	0.12851205	0.18976226	0.67722659	0.4982622	0.75670871
Ryr3	187.060589	0.12844489	0.37244943	0.34486532	0.73019563	0.89067944
Hk1os	24.9241503	0.12841724	0.41900657	0.30648025	0.75923902	0.90370654
Tns1	2556.8651	0.12834294	0.31181714	0.41159681	0.68063497	0.86680489
U2af1l4	1551.39203	0.12832298	0.19269226	0.66594779	0.50544447	0.76107404
Scin	4.92035611	0.12831247	0.37440286	0.34271232	0.73181489	NA
Sytl5	1.92472494	0.12824723	0.31224103	0.41073151	0.68126942	NA
Hmces	4854.07676	0.1282467	0.19798781	0.64775047	0.51714636	0.76794869
Akt2	4250.21763	0.12823818	0.18386539	0.69745685	0.48551693	0.74775368
Cd53	1.12531966	0.12819526	0.26934695	0.47594845	0.6341111	NA
Klk12	1.12531966	0.12819526	0.26934695	0.47594845	0.6341111	NA
Vstm4	1.12531966	0.12819526	0.26934695	0.47594845	0.6341111	NA
Gon4l	4596.70749	0.1281396	0.2113371	0.60632802	0.54429696	0.78623679
Kcnmb1	4.30403052	0.12805731	0.38733355	0.3306125	0.74093721	NA
Fam73b	1275.43097	0.12804163	0.21185014	0.60439718	0.54557961	0.78674968
Zmpste24	4290.46171	0.12803755	0.1729965	0.7401164	0.45922937	0.72986186
Fdxr	1142.5341	0.12802221	0.20637382	0.62034132	0.5350331	0.78005097
Magel2	8.79430714	0.12793607	0.42933152	0.297989	0.76571156	0.90618168
Gtpbp2	1213.96402	0.12791523	0.18649011	0.68590892	0.49277055	0.75290575
Ubtfl1	27.0816458	0.12789079	0.42590626	0.3002792	0.7639642	0.9056569
Lhx4	3.31288096	0.12778362	0.33922286	0.37669519	0.70640014	NA
Ankrd16	786.215359	0.12776425	0.19398408	0.65863264	0.51013169	0.76433741
Zfp13	1294.27709	0.12771956	0.24750159	0.5160353	0.60582975	0.82418428

Plcd1	619.447637	0.12769352	0.38313713	0.33328412	0.73891982	0.8948635
Pspn	1.14518821	0.12767038	0.2140074	0.59656995	0.55079454	NA
Tex12	51.7576945	0.12765506	0.36784957	0.34703062	0.72856832	0.8900505
Mir568	1.2572093	0.12747416	0.25100151	0.5078621	0.61155005	NA
Rras2	5220.09995	0.1274382	0.287347	0.44349933	0.6574046	0.85307902
Lmbrd1	1058.40758	0.12742846	0.2381279	0.53512612	0.59256265	0.81685504
Mepce	2799.4244	0.12742667	0.20847419	0.61123476	0.54104417	0.7846986
Scarb1	5892.51906	0.12732475	0.1910715	0.6663723	0.50517316	0.76086662
Cacng4	20.9409697	0.12731598	0.43080123	0.29553299	0.76758675	0.90649963
Pank2	4493.20965	0.12724299	0.17439446	0.72962746	0.46561793	0.73458704
Slc1a7	15.3043202	0.12722319	0.43025007	0.29569591	0.76746232	0.90649963
Ocel1	388.739343	0.12721741	0.33803576	0.37634304	0.70666188	0.88063557
Ambra1	3874.74569	0.12710324	0.21776886	0.58366122	0.55944826	0.79765105
Caml	1348.98285	0.12706352	0.16627606	0.76417206	0.44476471	0.71820292
Tnni3	567.477987	0.12695599	0.32168141	0.39466376	0.69309105	0.87461511
Ncbp2	6451.84785	0.12690152	0.17699588	0.71697441	0.47338989	0.73971926
Foxd3	1418.84566	0.12687804	0.22763807	0.55736743	0.57727641	0.80734073
Hcst	1.96639971	0.12683967	0.31096632	0.40788877	0.68335534	NA
Ovca2	1085.36568	0.12683857	0.20085148	0.63150431	0.52771083	0.77506906
Acad11	2403.53705	0.12683751	0.18366461	0.69059311	0.48982128	0.750908
Fam134c	4085.39103	0.12683654	0.16805769	0.75472025	0.45041686	0.7229269
Gm11110	27.5651683	0.12682631	0.42611985	0.2976306	0.76598512	0.90618168
Gm11837	203.209856	0.12679276	0.28763476	0.44081168	0.65934934	0.8543906
1110038F14F	1802.17943	0.1267625	0.21496458	0.5896902	0.55539836	0.79464532
Mark3	8344.78304	0.12673398	0.14230632	0.89057171	0.37315898	0.66295532
Tmco5b	1.46784755	0.12665405	0.1958916	0.64655172	0.51792211	NA
Barhl2	8.03055957	0.12663823	0.39546441	0.32022661	0.74879655	0.9007559
Plcx2	314.61001	0.12653123	0.32013367	0.39524498	0.6926621	0.8746012
Zdhhc2	1573.2711	0.12650985	0.24279137	0.52106401	0.60232218	0.82215213
Tmem165	7212.78998	0.12648615	0.17296782	0.73126983	0.46461436	0.73397175
4930448K20F	8.55939108	0.12642404	0.43059935	0.29360016	0.76906345	0.90747742
Cdc42ep3	1368.5897	0.12623618	0.18399467	0.68608607	0.49265884	0.75285423
Ednrb	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
G630093K05I	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Cacng3	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Gzmf	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Col19a1	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
P2ry14	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Cnga1	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Fibin	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
1700063O14I	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA

H2-T24	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
A930003A15I	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Ndp	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Sh2d1b2	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Cyp2c65	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Lrrc26	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Ssxb9	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Clrn3	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Asb17	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Casp4	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Ranbp3l	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Prl2c2	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Olf340	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Banf2	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Olf1196	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Btg4	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Trdn	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Gm6696	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Mir1945	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Olf1342	0.49243511	0.12622059	0.17468029	0.72258064	0.46993756	NA
Mpzl1	7112.67905	0.12620714	0.17378044	0.72624481	0.46768871	0.735927
Gdf3	9835.29347	0.12617951	0.16467523	0.7662325	0.44353798	0.71689626
Uqcrh	12855.4982	0.12611495	0.21294546	0.5922406	0.55368948	0.79271084
Yipf4	3750.03721	0.12610372	0.24676088	0.51103612	0.60932577	0.82590648
Commd6	1275.60943	0.126066	0.20181388	0.62466464	0.53219119	0.77856116
Tnfsf9	63.6841523	0.12606218	0.42610355	0.29584871	0.76734562	0.90649963
1700039E15F	0.7844061	0.1260159	0.22364485	0.56346438	0.57311871	NA
Gucy1a3	0.7844061	0.1260159	0.22364485	0.56346438	0.57311871	NA
2310007B03F	0.7844061	0.1260159	0.22364485	0.56346438	0.57311871	NA
Lrrc18	153.476957	0.1259613	0.39914923	0.31557446	0.75232553	0.90182644
Vcpkmt	953.859125	0.1259507	0.18678375	0.67431298	0.50011236	0.7577302
Fndc9	0.48527936	0.12593278	0.17451247	0.72162623	0.47052431	NA
Zdhhc22	0.48527936	0.12593278	0.17451247	0.72162623	0.47052431	NA
7420700N18I	0.48527936	0.12593278	0.17451247	0.72162623	0.47052431	NA
Pde7b	0.48527936	0.12593278	0.17451247	0.72162623	0.47052431	NA
Cmtm2a	0.48527936	0.12593278	0.17451247	0.72162623	0.47052431	NA
Vmn1r15	0.48527936	0.12593278	0.17451247	0.72162623	0.47052431	NA
A630075F10F	0.48527936	0.12593278	0.17451247	0.72162623	0.47052431	NA
Tex43	0.48527936	0.12593278	0.17451247	0.72162623	0.47052431	NA
Ntf3	0.48527936	0.12593278	0.17451247	0.72162623	0.47052431	NA
Mcoln1	2501.80807	0.12592033	0.19750284	0.63756209	0.52375878	0.77166962

Gm10364	33.7770077	0.12590238	0.38354949	0.32825588	0.7427182	0.89701854
Syn2	4.13875761	0.12577249	0.33857902	0.37147161	0.7102863	NA
Mterf1b	146.670779	0.1257457	0.29233638	0.43014045	0.66709347	0.859128
Slc23a3	2.18508326	0.12570572	0.31990689	0.39294471	0.69436032	NA
Ift80	2724.81425	0.12564572	0.17010356	0.73864251	0.46012411	0.73073835
A730043L09F	0.47812362	0.12564547	0.17434168	0.72068523	0.4711032	NA
3110079O15I	0.47812362	0.12564547	0.17434168	0.72068523	0.4711032	NA
Tespa1	0.47812362	0.12564547	0.17434168	0.72068523	0.4711032	NA
Fcer2a	0.47812362	0.12564547	0.17434168	0.72068523	0.4711032	NA
Gsdmc2	0.47812362	0.12564547	0.17434168	0.72068523	0.4711032	NA
Cnfn	0.47812362	0.12564547	0.17434168	0.72068523	0.4711032	NA
Mir302c	0.47812362	0.12564547	0.17434168	0.72068523	0.4711032	NA
2310015B20F	1.11100818	0.12559402	0.26879705	0.46724479	0.64032475	NA
Get4	3797.53347	0.12558541	0.16522455	0.76008925	0.44720124	0.72045935
Rpa1	26140.4988	0.12553889	0.14997467	0.83706727	0.40255476	0.68709571
Lzts2	2204.32851	0.12553404	0.25784637	0.48685597	0.6263604	0.83466421
Timm10	1705.20419	0.12546923	0.21886172	0.57328082	0.56645457	0.80234403
Rmdn3	2945.91412	0.12543992	0.19318992	0.64930886	0.51613876	0.7671677
C86187	0.47272954	0.12541318	0.17420456	0.719919	0.47157487	NA
Mir7655	0.47272954	0.12541318	0.17420456	0.719919	0.47157487	NA
Serpina1e	0.47272954	0.12541318	0.17420456	0.719919	0.47157487	NA
Ncam2	0.47272954	0.12541318	0.17420456	0.719919	0.47157487	NA
ERCC-00074	0.47272954	0.12541318	0.17420456	0.719919	0.47157487	NA
Kmo	0.47272954	0.12541318	0.17420456	0.719919	0.47157487	NA
Il15ra	0.47272954	0.12541318	0.17420456	0.719919	0.47157487	NA
Hcar1	0.47272954	0.12541318	0.17420456	0.719919	0.47157487	NA
Fam71b	0.47272954	0.12541318	0.17420456	0.719919	0.47157487	NA
1700019G24I	0.47272954	0.12541318	0.17420456	0.719919	0.47157487	NA
Zswim2	0.47272954	0.12541318	0.17420456	0.719919	0.47157487	NA
C730027H18I	0.47272954	0.12541318	0.17420456	0.719919	0.47157487	NA
Mpeg1	14.7624756	0.12538699	0.41322888	0.30343229	0.76156044	0.90466935
Upp2	0.47096788	0.12535109	0.17416788	0.71971415	0.47170101	NA
Dntt	0.47096788	0.12535109	0.17416788	0.71971415	0.47170101	NA
Cyp4a14	0.47096788	0.12535109	0.17416788	0.71971415	0.47170101	NA
Fbxw14	0.47096788	0.12535109	0.17416788	0.71971415	0.47170101	NA
Kcnd2	3.31789766	0.12526228	0.34187211	0.36640099	0.71406588	NA
1700030A11F	1.46585584	0.12519174	0.31203717	0.40120779	0.68826715	NA
Lim2	8.07189969	0.12516723	0.41921729	0.29857364	0.76526538	0.90610594
1700010D01I	0.46557379	0.12511501	0.17402827	0.71893496	0.472181	NA
1700055C04F	0.46557379	0.12511501	0.17402827	0.71893496	0.472181	NA
Rem1	0.46557379	0.12511501	0.17402827	0.71893496	0.472181	NA

Tm4sf1	0.46557379	0.12511501	0.17402827	0.71893496	0.472181	NA
Prss57	0.46557379	0.12511501	0.17402827	0.71893496	0.472181	NA
Gys2	0.46557379	0.12511501	0.17402827	0.71893496	0.472181	NA
Kcne2	0.46557379	0.12511501	0.17402827	0.71893496	0.472181	NA
Adam1b	1.5521987	0.12505314	0.26932902	0.46431366	0.64242304	NA
Sgcg	2.32362305	0.12500509	0.34718605	0.36005216	0.71880812	NA
Ankrd13c	5051.58813	0.12497637	0.20167972	0.61967745	0.53547016	0.7803571
Cebpz05	4353.34591	0.12495928	0.21719181	0.57534066	0.56506093	0.80125038
Snord49b	50.145296	0.12489129	0.34184757	0.36534205	0.71485609	0.88459673
Tsr3	1482.79419	0.12483716	0.21491488	0.58086792	0.56132948	0.79905798
Myh1	0.45841805	0.12481213	0.17384885	0.71793474	0.47279753	NA
Mir200a	0.45841805	0.12481213	0.17384885	0.71793474	0.47279753	NA
Gm3376	0.45841805	0.12481213	0.17384885	0.71793474	0.47279753	NA
Cnih3	0.45841805	0.12481213	0.17384885	0.71793474	0.47279753	NA
Clec4a2	0.45841805	0.12481213	0.17384885	0.71793474	0.47279753	NA
2900057B20F	0.45841805	0.12481213	0.17384885	0.71793474	0.47279753	NA
Gm11978	0.45841805	0.12481213	0.17384885	0.71793474	0.47279753	NA
Foxb2	0.45841805	0.12481213	0.17384885	0.71793474	0.47279753	NA
Acox2	0.77725036	0.12472824	0.22314458	0.55895707	0.57619102	NA
Mir7229	0.77725036	0.12472824	0.22314458	0.55895707	0.57619102	NA
Hoxb3	2.3199913	0.12463752	0.29187552	0.42702285	0.66936268	NA
Mrps11	1660.18669	0.12459021	0.18440351	0.67563902	0.49926986	0.75708397
Htr2b	0.45302396	0.12456902	0.17370459	0.71713143	0.47329301	NA
4930468A15f	0.45302396	0.12456902	0.17370459	0.71713143	0.47329301	NA
Gm10791	0.45302396	0.12456902	0.17370459	0.71713143	0.47329301	NA
Pcdhb11	0.45302396	0.12456902	0.17370459	0.71713143	0.47329301	NA
Kctd18	1187.74778	0.12456802	0.20430668	0.60971093	0.54205331	0.78505055
3010001F23F	4.37764511	0.12454281	0.39209356	0.31763544	0.75076149	NA
H2-M10.1	2.22411701	0.12438311	0.32011961	0.38855199	0.69760759	NA
Cd82	73.3466734	0.12437746	0.359422	0.34604854	0.72930623	0.89036279
LOC1026344f	0.44586822	0.1242574	0.17351934	0.71610114	0.4739289	NA
4930471G03f	0.44586822	0.1242574	0.17351934	0.71610114	0.4739289	NA
Krt6a	0.44586822	0.1242574	0.17351934	0.71610114	0.4739289	NA
1700030N03f	0.44586822	0.1242574	0.17351934	0.71610114	0.4739289	NA
Oit3	0.44586822	0.1242574	0.17351934	0.71610114	0.4739289	NA
Ctrc	0.44586822	0.1242574	0.17351934	0.71610114	0.4739289	NA
Cx3cl1	179.899558	0.1242447	0.37502118	0.33130048	0.74041753	0.89565792
Gna12	1545.14388	0.12416867	0.22777253	0.54514333	0.58565494	0.81230111
Lrrc10b	12.6727363	0.12411997	0.42023018	0.29536187	0.76771746	0.90649963
Wdr91	1965.14109	0.12405416	0.17609195	0.70448513	0.48113071	0.7445399
Dnajb12	1846.97636	0.12398392	0.18569636	0.66767019	0.50434414	0.76042813

Spata2l	73.7831556	0.12391069	0.41105528	0.30144532	0.76307494	0.90522666
Ucp3	22.969473	0.12390166	0.43091631	0.28753067	0.77370602	0.9098882
2410004I01R	22.1906708	0.12384977	0.42428432	0.29190278	0.77036096	0.90826254
Gm12794	33.3845293	0.12378582	0.41407321	0.2989467	0.76498072	0.90610594
Samd12	47.3475153	0.12371672	0.39651127	0.31201311	0.75503056	0.90191816
Tmem190	0.43331839	0.12368643	0.17317897	0.71421161	0.47509634	NA
Krtap5-5	0.43331839	0.12368643	0.17317897	0.71421161	0.47509634	NA
Col4a4	0.43331839	0.12368643	0.17317897	0.71421161	0.47509634	NA
Gm13807	0.43331839	0.12368643	0.17317897	0.71421161	0.47509634	NA
Krt24	0.43331839	0.12368643	0.17317897	0.71421161	0.47509634	NA
Ddx56	7160.84165	0.12356822	0.19227358	0.64266873	0.52043908	0.76986886
Ptpra	2807.731	0.12345424	0.1919176	0.64326688	0.52005095	0.76986886
Anxa13	1.93628335	0.1233514	0.3044058	0.40522026	0.68531561	NA
Fam188b	288.392254	0.12333978	0.28825694	0.4278814	0.66873747	0.8600411
Wipf3	85.8407651	0.12333579	0.34207768	0.36054909	0.71843656	0.88550762
Gm13178	2.0160845	0.12332406	0.27843749	0.44291471	0.65782743	NA
Cecr5	2036.10983	0.12331396	0.17403176	0.70857157	0.47859038	0.74302874
A230020J21R	2.65500519	0.12319914	0.35911713	0.34306116	0.73155245	NA
4933440J02R	1.41897865	0.12313152	0.22793758	0.54019842	0.5890602	NA
Hcls1	3.75490601	0.12294394	0.37816452	0.32510703	0.74510007	NA
Ythdc1	8164.99474	0.12289452	0.2230843	0.55088824	0.58171029	0.80984021
Bcas2	12941.1956	0.12289333	0.17294663	0.71058529	0.47734126	0.74223918
Ttn	2231.95323	0.12287925	0.33477858	0.36704634	0.71358445	0.88418475
Fkbp5	13939.9742	0.12276671	0.18392056	0.66749857	0.50445372	0.7604459
Casp14	58.949474	0.12268825	0.35925287	0.34150945	0.73272009	0.89214924
Casz1	375.215055	0.12256956	0.29633124	0.41362348	0.67914987	0.86604267
Prph2	7.5242036	0.12250244	0.41507841	0.29513083	0.76789394	0.90649963
Ccdc115	2320.7728	0.1224838	0.26699323	0.45875246	0.64641194	0.84705994
Cacul1	6185.28817	0.12246624	0.15972267	0.76674299	0.44323434	0.71664974
Ldlrad2	0.76470053	0.12242389	0.22225083	0.55083658	0.58174571	NA
Arl15	6038.40157	0.12240745	0.15926466	0.76857888	0.44214335	0.7159317
Oc90	213.82843	0.12240204	0.38704182	0.31625016	0.75181264	0.90161989
Tmem51os1	45.7205203	0.12240185	0.37933065	0.32267852	0.74693872	0.89975744
Mien1	2032.88676	0.12229721	0.23562033	0.51904355	0.60373037	0.82288924
Phf12	5059.14722	0.12214761	0.26550882	0.46005107	0.64547957	0.84629525
Snx18	8493.22746	0.12214223	0.22058775	0.55371265	0.57977552	0.80831465
Abcc10	872.003878	0.12212296	0.23374785	0.52245596	0.6013529	0.82154763
D5Ertd605e	513.611508	0.12200025	0.43075915	0.28322149	0.77700705	0.91146087
Ptprs	4966.97281	0.12194625	0.19247338	0.63357464	0.52635846	0.77414646
Eln	16.0332133	0.12190429	0.42758172	0.28510173	0.7755662	0.91038874
Ston1	622.83964	0.12183302	0.22617429	0.53866874	0.59011544	0.81536075

Pcnx	1902.22865	0.12182892	0.24003055	0.50755588	0.61176484	0.8270499
Bet1l	1624.40041	0.12182076	0.20757329	0.5868807	0.55728383	0.79587849
Zfp687	4406.72031	0.12180599	0.20655043	0.5897155	0.5553814	0.79464532
Msemb	1.78044846	0.12179426	0.26867459	0.45331514	0.65032183	NA
Kcnk7	7.84140787	0.12173377	0.42672805	0.28527249	0.77543539	0.91030389
Ier5l	1371.98589	0.12170815	0.23101853	0.52683285	0.59830967	0.81984777
Sntg1	2.482374	0.12168563	0.31672601	0.38419841	0.7008314	NA
Srp9	3103.85072	0.12168493	0.1882427	0.64642579	0.51800365	0.76808698
Uqcr10	13516.6054	0.12160758	0.23875717	0.5093358	0.61051687	0.82628478
Tmem258	5262.77762	0.12159834	0.19961976	0.6091498	0.54242515	0.78520513
Trim29	5.792493	0.12156595	0.41556531	0.29253152	0.76988027	NA
Accsl	4098.47745	0.12154101	0.29102294	0.41763378	0.67621489	0.864488
Ndufaf7	2039.61114	0.12136328	0.2151977	0.56396181	0.57278012	0.80616379
Ect2l	1.44615027	0.12131303	0.31164547	0.38926614	0.69707928	NA
Ppp2r3c	2392.90609	0.12128227	0.16406303	0.73924195	0.45976009	0.73030941
Lims2	34.5719198	0.12094321	0.4243707	0.28499425	0.77564855	0.91041668
Cnpy4	2016.42009	0.12093873	0.20133273	0.60069085	0.54804591	0.78881129
Mppe1	1210.3777	0.12092796	0.26166471	0.46214854	0.6439748	0.84524411
8430427H17l	2432.17506	0.12089495	0.24585188	0.49173897	0.62290389	0.83253766
Neurl1b	39.3328575	0.12088359	0.42927957	0.28159643	0.77825298	0.91216552
Llg12	10669.1133	0.12062844	0.18384405	0.65614548	0.51173053	0.76525833
Plekhj1	2370.56102	0.12061835	0.17989318	0.67049987	0.50253919	0.7592526
E2f3	3983.00344	0.12061779	0.22863454	0.52755714	0.59780674	0.81972425
Npepl1	1864.26959	0.12059062	0.2431367	0.49597871	0.61990943	0.83138912
Mfap1b	404.268374	0.12057816	0.19431468	0.62053036	0.53490867	0.78004171
Ssmem1	14.2211762	0.12052282	0.43220024	0.27885876	0.78035322	0.91308099
Klk10	321.40058	0.12048433	0.36801294	0.32739156	0.74337175	0.89745937
Nphs1os	203.70145	0.12045355	0.39228236	0.30705829	0.75879901	0.90331943
Corin	4.2982088	0.12040441	0.39198577	0.30716526	0.75871758	NA
Zfp408	1220.56001	0.12031295	0.24298429	0.49514703	0.62049634	0.83154492
Sfpq	31346.1784	0.12026715	0.21877697	0.54972492	0.58250806	0.81000763
Sp5	587.982999	0.12021163	0.38338365	0.3135544	0.7538595	0.90191816
Al846148	2905.91489	0.12018395	0.19707128	0.60985017	0.54196106	0.78505055
Abrac1	2074.86735	0.12014545	0.20433095	0.58799438	0.55653607	0.7956143
AU015228	12.5917867	0.12012693	0.39734619	0.3023231	0.76240577	0.90498047
Atad2b	7591.05755	0.12004855	0.23257344	0.51617482	0.60573232	0.82418428
Bora	2985.90853	0.12004195	0.1591097	0.75446026	0.4505729	0.72293741
1600012H06l	1905.16758	0.11998117	0.1652654	0.72599085	0.46784438	0.7360089
Evl	1710.88688	0.11992062	0.15771229	0.76037587	0.44702994	0.72037167
Tle6	576.426578	0.11991947	0.28846515	0.41571561	0.67761812	0.86555439
Baiap2l2	60.7583007	0.11974048	0.34097373	0.35117215	0.7254592	0.88922398

Ncstn	4668.71343	0.11966893	0.21363222	0.5601633	0.57536806	0.80710344
Drc1	26.5900277	0.11966311	0.4146516	0.28858713	0.77289735	0.90962818
Dyrk3	4083.75992	0.11964465	0.22543378	0.53073079	0.59560534	0.8185823
Flt4	174.275573	0.11957633	0.35144398	0.34024295	0.73367358	0.892514
As3mt	1012.45407	0.11955611	0.24042275	0.49727453	0.61899547	0.83090659
Kcnj15	1.96344839	0.11951217	0.23650724	0.5053214	0.61333312	NA
Mir7049	0.80648736	0.11945666	0.2246971	0.53163418	0.59497939	NA
Hectd1	8192.15795	0.11936543	0.221442	0.53903701	0.58986132	0.81515448
Cryba4	3.46895859	0.11935728	0.37930561	0.31467312	0.75300986	NA
Lemd3	3518.34761	0.11931426	0.19078958	0.62537097	0.53172761	0.7783431
Cir1	456.244542	0.119276	0.18702156	0.63776607	0.52362597	0.77162015
Gm20751	39.1593835	0.1190898	0.42780751	0.2783724	0.78072651	0.9131063
Zyg11b	7600.23923	0.11908453	0.23691763	0.50264107	0.61521665	0.82953469
Sco2	177.230807	0.11906833	0.26572786	0.44808372	0.65409277	0.85168012
Hesx1	1015.83259	0.11904494	0.26205612	0.45427269	0.64963257	0.84900546
D630039A03	678.093126	0.11903031	0.31980578	0.37219562	0.70974721	0.88183819
Fam181a	5.8624356	0.11896903	0.39559164	0.30073697	0.76361507	NA
Lrrfip1	1395.1292	0.1189564	0.36016826	0.33028007	0.74118835	0.89614524
Gm8994	28.2521362	0.11889032	0.40177556	0.29591227	0.76729708	0.90649963
Ccdc166	389.408738	0.11876795	0.24663796	0.48154771	0.63012728	0.83674403
Fadd	432.150385	0.118737	0.21886148	0.54252125	0.58745947	0.81340776
Cenpj	1677.55182	0.11870224	0.17196634	0.69026437	0.49002795	0.75100272
Fads6	472.888958	0.11870062	0.2574362	0.46108754	0.6447358	0.84574327
H2-Ke2	4326.99082	0.11864971	0.19003492	0.62435742	0.53239288	0.77863648
Rpap2	2861.36611	0.1186469	0.16525398	0.71796694	0.47277767	0.73930088
Arl13a	0.96825671	0.11863215	0.20502888	0.57861191	0.56285107	NA
Gabbr1	4778.70596	0.11860523	0.18171544	0.65269758	0.51395127	0.76592775
Nr2e3	32.6295248	0.11845158	0.4322477	0.27403634	0.7840567	0.9146936
D4Ertd617e	1.15957336	0.11841549	0.27331019	0.4332641	0.66482291	NA
Mrpl34	2348.19232	0.11840515	0.2118005	0.55904093	0.57613379	0.80734073
Gm5635	88.0707806	0.11830822	0.38291549	0.30896693	0.75734669	0.90301693
Card14	67.0278788	0.1182526	0.42404906	0.27886537	0.78034814	0.91308099
Mia	243.53464	0.1182466	0.30954725	0.38199855	0.70246244	0.87879687
Lbp	36.0844261	0.11796802	0.41776341	0.28237996	0.77765218	0.91194246
1810044D09I	91.9414745	0.11777867	0.31690332	0.3716549	0.7101498	0.88195802
Nkd1	99.1801913	0.11776783	0.38899172	0.30275151	0.76207924	0.9048709
Edf1	5848.14375	0.11776439	0.20593033	0.57186522	0.56741329	0.8030103
Vps33a	2807.09991	0.11772988	0.21320356	0.55219469	0.58081497	0.80883439
Ano5	0.93600131	0.11770719	0.20580694	0.57193011	0.56736932	NA
Arhgef25	1873.26124	0.11769891	0.29631604	0.39720735	0.69121456	0.87369566
Ublcp1	2603.22745	0.11761697	0.17314898	0.67928193	0.49695925	0.7560535

Snai2	44.5548488	0.11747826	0.39771775	0.29538099	0.76770285	0.90649963
Cnrip1	1.29861874	0.11743095	0.25185947	0.46625587	0.64103236	NA
Eif2b5	28125.9124	0.11725552	0.19951919	0.58769045	0.55674009	0.79571116
Raet1d	7.35053616	0.11724661	0.42699448	0.27458577	0.7836345	0.91442498
Ebpl	1403.11659	0.11714913	0.2756235	0.42503317	0.6708125	0.86149188
Pcdhb18	0.95570688	0.11703844	0.20432129	0.57281569	0.5667695	NA
Pnkp	2109.58571	0.11701546	0.20290628	0.57669708	0.5641441	0.80062448
Frzb	9.2986957	0.11700344	0.38874202	0.30097964	0.76343002	0.90530857
Emilin3	174.544716	0.11689358	0.38664997	0.30232404	0.76240505	0.90498047
Arhgef37	15.6827335	0.11683232	0.42964269	0.27192904	0.78567658	0.91560784
Plxnb1	959.214886	0.11681775	0.2967096	0.39371071	0.69379463	0.87496374
Psmc3	19472.8783	0.11674669	0.16672414	0.70023865	0.48377828	0.74650089
Clvs1	13.9529569	0.11665917	0.43154426	0.27032957	0.78690672	0.9162057
Slc45a4	4771.52518	0.1164687	0.24029839	0.48468365	0.62790077	0.83543543
Ramp1	2.32538538	0.1164394	0.28280338	0.41173271	0.68053534	NA
Cnih4	4133.06292	0.11640028	0.20928483	0.55618114	0.57808703	0.80771125
Eepd1	219.540919	0.11639683	0.40603628	0.28666609	0.77436801	0.91001261
4930471M09	2.27807628	0.11628072	0.31933256	0.36413674	0.7157559	NA
Rpph1	57.9325658	0.11623782	0.3513633	0.33081947	0.74078085	0.89593118
Elmod1	4.73427056	0.11623033	0.3624993	0.32063601	0.74848625	NA
Prosc	4672.55181	0.11608382	0.16327812	0.71095762	0.4771105	0.74210296
Cyp2w1	1.14702353	0.11605028	0.27285278	0.42532197	0.67060198	NA
1-Mar	1.14702353	0.11605028	0.27285278	0.42532197	0.67060198	NA
Vaultrc5	2.23327105	0.116007	0.32610634	0.35573365	0.72204004	NA
Ngdn	6109.50988	0.11582813	0.19591812	0.5912068	0.55438186	0.79362905
Scd1	31367.2082	0.11580059	0.1645856	0.70358885	0.48168886	0.74482882
Polr2k	433.291237	0.11579747	0.34551264	0.33514683	0.73751433	0.89415198
Slbp	9432.20312	0.11576875	0.16093951	0.71933083	0.4719371	0.73859646
Mpv17	3344.8277	0.11568402	0.15335569	0.754351	0.45063849	0.72293741
Npy5r	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Mmp27	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Gm15471	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Nrg3	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Tex29	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Ces1d	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Trpm8	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Txk	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Hapln2	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Gpr123	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Ace2	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Sva	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA

S100a9	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Hsd3b6	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Mlip	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
ERCC-00171	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Rfpl4b	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Tmprss11a	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
2900079G21l	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
A230108P19f	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
A630033H20	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
P2ry10	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
2610207O16l	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Grip1os2	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Krt4	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Serpib9g	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
4930428D18l	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Serpib9f	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Muc15	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Pcdh11x	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Zfp804a	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Gsdmc3	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Rfpl4	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Gm16287	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Adarb2	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Gm10584	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
ligp1	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
C530044C16f	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
9930111J21R	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Gm19277	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Calm4	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Cd200r1	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Cxcl2	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Ifit3	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Cyp17a1	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Slitrk6	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Serpib9d	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Gm17359	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Adam18	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Fcgr4	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
4932411N23l	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Skint7	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Mef2c	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA

4921515E04F	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
9830107B12F	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Satl1	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Akap14	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Sln2	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Mcpt8	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Clec4n	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Olf601	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Nt5c1a	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Mir7073	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Slc15a5	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
Apol9a	0.32829007	0.11568031	0.16827265	0.68745761	0.49179441	NA
P4ha2	531.696338	0.11566875	0.30168506	0.38340896	0.70141656	0.87816834
Mrps18a	1927.65455	0.11565538	0.18776269	0.61596571	0.53791715	0.78149754
Psm13	11317.7911	0.11563026	0.1810098	0.63880662	0.52294874	0.77134419
Spata25	1.62800258	0.11552891	0.25948445	0.44522479	0.65615731	NA
Astn1	9.64422006	0.1155277	0.36971285	0.31247953	0.75467612	0.90191816
Gpr45	1.76212715	0.11551936	0.27031629	0.42734887	0.66912524	NA
Mir181c	1.76212715	0.11551936	0.27031629	0.42734887	0.66912524	NA
Ncan	89.9498426	0.11538897	0.40207916	0.28698072	0.77412708	0.90992938
Ube2d3	17988.6287	0.11531028	0.17469034	0.66008387	0.50920001	0.76389826
Rnf115	5895.49577	0.1152813	0.16803895	0.68603916	0.49268841	0.75285423
Slit2	1595.79739	0.1152731	0.37807239	0.30489689	0.76044468	0.90431969
Prl8a1	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
Fam19a2	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
Hrasls	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
Adra1b	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
Otp	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
Abca9	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
Gm17660	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
4930430D24I	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
Mir365-1	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
B3galt2	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
Impg1	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
Mir200b	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
Tmem181c-p	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
Rgs4	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
Gja10	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
A530099J19R	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
Ang4	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
Mir26a-2	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA

B230312C02F	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
Crtam	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
Wbscr28	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
8430426J06R	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
Sh2d1b1	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
Serpina3f	0.32113433	0.1151884	0.16796203	0.68580026	0.49283907	NA
Ptprt	10.5431409	0.11514273	0.41641874	0.27650708	0.78215862	0.91378174
Hs6st3	37.6866802	0.11505355	0.42187734	0.27271801	0.78506999	0.9153312
Rnf167	5166.05077	0.11502828	0.22983838	0.50047465	0.6167409	0.83032065
1700042G07I	5.87858308	0.11500674	0.40200412	0.28608349	0.77481417	NA
Stx17	593.853027	0.11494625	0.23006734	0.49962005	0.61734264	0.83032065
Nxn	6426.97238	0.11493434	0.26267269	0.43755727	0.66170725	0.85575442
3010033K07F	0.91453408	0.11481795	0.20449322	0.56147557	0.57447338	NA
Abca1	1346.05528	0.11479632	0.36685304	0.31292181	0.75434007	0.90191816
Mir7051	5.69230469	0.1147749	0.38186679	0.30056267	0.763748	NA
Slc38a9	806.314167	0.11474631	0.25931338	0.44250052	0.65812705	0.85360887
Mrpl43	3516.87169	0.1147451	0.17694678	0.64847235	0.51667949	0.767621
Olfr472	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Mir6939	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
6030466F02F	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
D830013O20	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Opn1mw	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Gm19461	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Sln	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Slc22a8	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Cd5l	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Gpr17	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
A530013C23I	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Shbg	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Obox1	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
2310002D06I	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
4930519G04I	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Olfr1058	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Cd72	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Gm5087	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Defb19	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Prg2	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Nt5c1b	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Krtap4-16	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Lpcat2b	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Armc3	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA

Alb	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Gm16336	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Rmst	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Mir6903	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Mir1936	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Slc46a2	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Gm11780	0.31397859	0.11468681	0.16764496	0.68410535	0.49390864	NA
Map3k11	1376.46248	0.11467685	0.22794511	0.50308976	0.61490116	0.82951097
Ube2n	4009.15384	0.11452903	0.16284704	0.7032921	0.48187373	0.74500838
Tacc1	5497.14111	0.11449914	0.22869892	0.50065449	0.6166143	0.83032065
Myo1d	233.12637	0.11445224	0.32314166	0.35418595	0.72319953	0.88771615
Sox9	4.37111886	0.11444672	0.40133012	0.28516853	0.77551503	NA
Usp14	15459.3623	0.11434117	0.20153159	0.56736105	0.57046891	0.80487644
Vav1	21.6534907	0.1143311	0.41342804	0.27654414	0.78213016	0.91378174
Cdc25a	8956.23398	0.11429856	0.17139941	0.66685508	0.50486471	0.76069674
Mir7042	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Lrrtm2	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Vmn1r227	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
4930449E01F	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Olfr329-ps	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Vgll2	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
C230079O03	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Poteg	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Vmn1r29	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
1700007J10R	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Gm16894	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Lhfpl1	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Eppin	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Mir6937	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
4933432I09R	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Olfr330	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
1700030O20	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Gm16390	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Marco	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Dspp	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Pgk2	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Klra2	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Mir324	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Gm2030	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Mcoln2	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Cd84	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA

Adamts18	0.3085845	0.1142766	0.16738486	0.68271766	0.49478527	NA
Col24a1	1.46314116	0.11425833	0.22858832	0.49984326	0.61718545	NA
Ntsr1	4.94804585	0.11422979	0.40416892	0.28262884	0.77746137	NA
C130050O18	0.82581554	0.11416698	0.22562283	0.5060081	0.61285096	NA
Rab10	7986.55484	0.11414978	0.16971409	0.67260045	0.50120151	0.75821324
Ogg1	1165.92145	0.11414413	0.1731095	0.65937528	0.50965481	0.76413825
Rgs7bp	3.38694474	0.11413721	0.3392249	0.33646472	0.73652045	NA
Cldn12	2742.50352	0.11412702	0.17423794	0.65500674	0.51246342	0.76532398
Pip5k1b	1567.47525	0.11412666	0.16461813	0.69328126	0.48813306	0.74925614
Bckdha	3715.79215	0.11395328	0.21125508	0.53941083	0.58960341	0.8149429
Ppp1r14c	20.2766108	0.11394307	0.42965794	0.26519484	0.79085937	0.91829081
B430212C06f	8.43750976	0.11389792	0.42798237	0.26612759	0.79014095	0.91812832
Car3	4.39200684	0.11378948	0.37450436	0.30384021	0.76124963	NA
lqcd	10.6835164	0.11378523	0.42972946	0.2647834	0.79117633	0.91829081
Olf95	0.30142876	0.11375894	0.16705562	0.68096442	0.495894	NA
Olf372	0.30142876	0.11375894	0.16705562	0.68096442	0.495894	NA
C2cd4d	0.30142876	0.11375894	0.16705562	0.68096442	0.495894	NA
Tppp2	0.30142876	0.11375894	0.16705562	0.68096442	0.495894	NA
Il10ra	0.30142876	0.11375894	0.16705562	0.68096442	0.495894	NA
Ppp3r2	0.30142876	0.11375894	0.16705562	0.68096442	0.495894	NA
Nphs2	0.30142876	0.11375894	0.16705562	0.68096442	0.495894	NA
Mir1940	0.30142876	0.11375894	0.16705562	0.68096442	0.495894	NA
Foxe3	0.30142876	0.11375894	0.16705562	0.68096442	0.495894	NA
Ldlrad1	0.30142876	0.11375894	0.16705562	0.68096442	0.495894	NA
Ppp1r1c	0.30142876	0.11375894	0.16705562	0.68096442	0.495894	NA
Gpr141	0.30142876	0.11375894	0.16705562	0.68096442	0.495894	NA
Cxcr6	0.30142876	0.11375894	0.16705562	0.68096442	0.495894	NA
Trp53tg5	0.30142876	0.11375894	0.16705562	0.68096442	0.495894	NA
4930452G13l	0.30142876	0.11375894	0.16705562	0.68096442	0.495894	NA
Gm16982	0.30142876	0.11375894	0.16705562	0.68096442	0.495894	NA
Mapre1	12473.6165	0.1134226	0.1929872	0.58772081	0.5567197	0.79571116
Cdh17	9.15569109	0.11340963	0.39515638	0.28699936	0.77411281	0.90992938
Gbp5	0.99033796	0.11340658	0.2056828	0.5513664	0.58138253	NA
Adgb	0.99033796	0.11340658	0.2056828	0.5513664	0.58138253	NA
Dtx3	2078.69734	0.11339107	0.25188805	0.45016454	0.6525918	0.85045295
Gm16701	2.62990553	0.11338216	0.35293433	0.32125568	0.74801664	NA
Fam102b	139.583372	0.11336475	0.34320346	0.33031355	0.74116305	0.89614524
Helz	7371.56137	0.11330753	0.29847902	0.3796164	0.70423018	0.87942876
Cops8	5670.93623	0.11327856	0.1875504	0.60398994	0.54585033	0.78706709
Ptchd4	1.49539656	0.1132781	0.22573074	0.50182843	0.61578821	NA
Stard13	23.8289076	0.11319567	0.42364223	0.26719638	0.78931796	0.91766475

Allc	1.80439372	0.1131332	0.31975669	0.35381025	0.72348109	NA
Tmem169	4.60212169	0.11310639	0.3919311	0.28858743	0.77289711	NA
Ppp1r3g	29.9125198	0.11293545	0.42923376	0.26310942	0.79246624	0.918989
Gorasp1	1169.65602	0.11292541	0.18126039	0.62300104	0.53328384	0.77920671
Apaf1	5197.5635	0.11290439	0.22830974	0.49452286	0.62093697	0.83171324
St18	0.8186598	0.11290277	0.2251563	0.50144175	0.61606027	NA
Vhl	3675.95947	0.11282038	0.17605543	0.64082307	0.52163764	0.7704423
Dydc1	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
Mir1966	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
A930041C12I	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
Gm7538	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
Csf2	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
Gm5483	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
Olfrc631	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
Tenm2	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
Mir3473e	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
Spata32	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
A4gnt	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
Actl7a	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
Lce3a	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
Gdnf	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
Rhox3f	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
Ccl4	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
Gm9961	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
Ly86	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
Mir6909	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
Mir665	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
Gla4	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
Defb48	0.28887893	0.11280103	0.16644339	0.67771407	0.497953	NA
Cactin	3166.84661	0.11273899	0.2321184	0.48569604	0.62718269	0.83498616
Nbeal2	842.867411	0.11271463	0.24836324	0.45382974	0.64995138	0.84900546
Acad9	4302.85972	0.11268834	0.19492779	0.57810298	0.56319459	0.79991224
Enpp2	2.53477347	0.1126803	0.35130914	0.320744	0.7484044	NA
Fubp3	14093.9806	0.11259099	0.18214092	0.61815318	0.53647437	0.78079716
Safb	9387.2326	0.11249279	0.21079142	0.53366874	0.59357074	0.81730286
Ghrl	1.30225117	0.11237409	0.24661829	0.45566	0.64863449	NA
Tango2	1018.41927	0.11234674	0.19958499	0.56290174	0.5735018	0.80644198
Psm14	12238.7024	0.11234165	0.14172644	0.79266545	0.42797276	0.70472095
Ilk	3271.10132	0.11228828	0.17338709	0.64761612	0.51723327	0.76794869
2410004P03F	75.2474855	0.11227799	0.37305398	0.30096983	0.7634375	0.90530857
Traf3ip2	1717.80375	0.11226279	0.16831625	0.66697534	0.50478789	0.76065469

Impa2	7040.3669	0.11218871	0.18032169	0.62215869	0.53383753	0.77957624
Cpz	73.365782	0.11214608	0.33427021	0.33549529	0.7372515	0.89402667
Tmem245	1963.32387	0.1121081	0.26736028	0.41931474	0.67498613	0.86408562
Pcdhga1	190.173441	0.11205458	0.30886934	0.36278957	0.71676208	0.88475711
Tmem102	1040.38679	0.11182349	0.21299987	0.52499325	0.59958789	0.82028602
Hyal6	0.97778813	0.11182344	0.20499325	0.54549818	0.58541093	NA
Ppm1f	5271.54113	0.11178577	0.19892439	0.56195107	0.57414936	0.80656634
Diap3	4072.40444	0.11173062	0.21556066	0.51832565	0.60423108	0.82301809
Wbscr22	4118.19699	0.11168665	0.18670365	0.59820279	0.54970463	0.79013372
AF357426	10.7381841	0.11161378	0.4285161	0.26046578	0.79450451	0.91975523
lqcg	1966.5011	0.1116133	0.1967341	0.5673307	0.57048952	0.80487644
Tbpl1	2260.5172	0.11148225	0.15242638	0.7313842	0.46454451	0.73397175
Rnf11	2907.8432	0.11141918	0.22279215	0.50010371	0.61700205	0.83032065
Gm9047	1.0025104	0.11138379	0.20860439	0.5339475	0.59337786	NA
Frmd3	2.59867024	0.11133806	0.32940976	0.33799261	0.73536876	NA
Sel1l	4634.87228	0.11130649	0.19690893	0.56526887	0.5718909	0.80538015
Fez1	873.925639	0.11116809	0.36458898	0.30491347	0.76043206	0.90431969
Sdc1	2759.65084	0.11115758	0.19638755	0.56601135	0.57138607	0.80538015
Midn	5850.78652	0.11113921	0.22035104	0.50437342	0.61399899	0.8287946
Cyb5rl	136.464071	0.11113332	0.26609667	0.41764267	0.67620839	0.864488
Dapk2	89.8943161	0.11111739	0.37412371	0.29700707	0.76646111	0.90621355
Epc1	2606.94656	0.11105861	0.21680878	0.51224221	0.6084815	0.82562526
Daam1	2839.42197	0.11077724	0.21476456	0.51580783	0.60598863	0.82418428
BC051628	3.19313507	0.11076934	0.3734026	0.29664855	0.76673484	NA
Sec23b	9215.45385	0.1106865	0.15287248	0.72404462	0.46903834	0.73676921
N4bp2	4270.56729	0.11064671	0.30707566	0.36032394	0.7186049	0.88550762
Al197445	0.80610997	0.11063893	0.22432347	0.49321157	0.6218631	NA
F2rl3	2.87946021	0.11052733	0.3424037	0.3227983	0.746848	NA
Elac2	3580.93353	0.1104232	0.20572141	0.53676084	0.59143282	0.81623818
Inpp5k	2423.28911	0.11038604	0.22181461	0.49764997	0.61873078	0.83090659
Nqo2	2776.351	0.11038486	0.19638226	0.56209181	0.57405346	0.80656634
Zmynd8	9767.53238	0.11035054	0.15888204	0.69454385	0.48734121	0.74880379
6-Mar	4490.69441	0.11028556	0.23569194	0.4679225	0.63984002	0.84244789
Comtd1	941.409087	0.11021567	0.20034672	0.55012465	0.58223388	0.81000763
Mnt	3150.44956	0.11019379	0.20405249	0.54002671	0.58917861	0.81457242
Gla	2033.43719	0.11009132	0.2238706	0.49176319	0.62288676	0.83253766
Speer5-ps1	13.5981994	0.11007593	0.42329279	0.26004678	0.79482769	0.91980692
Ubxn11	866.163118	0.10998155	0.24134993	0.45569331	0.64861054	0.84862854
Brsk1	1056.4126	0.10987014	0.20642193	0.53226	0.59454593	0.81784068
Rgl3	6.98977087	0.10986253	0.39307741	0.27949337	0.77986622	0.91295541
Spaca1	0.93837699	0.10978908	0.20538024	0.53456494	0.59295073	NA

Ccm2	1634.13106	0.10971401	0.20631613	0.53177622	0.59488099	0.81794822
Tigd5	80.6838604	0.10970982	0.32134539	0.34140778	0.73279662	0.89216077
Sptlc2	8202.12235	0.10967192	0.15493589	0.70785358	0.47903619	0.7432908
Ints5	4151.31236	0.10966861	0.22737324	0.48232857	0.62957256	0.83647285
Ppm1m	1875.66545	0.10944443	0.21891372	0.49994323	0.61711505	0.83032065
Vax1	0.89659017	0.10930627	0.20078235	0.54440179	0.58616501	NA
Narfl	1431.97048	0.10919327	0.2088399	0.52285634	0.60107423	0.82152446
Spink3	1.00966614	0.10913859	0.2062729	0.52909805	0.59673744	NA
Pcdhb17	1.32578377	0.10911771	0.18935919	0.57624724	0.56444808	NA
Gins3	1682.2579	0.10909914	0.1909807	0.5712574	0.56782517	0.80306738
Gm20199	3.29779856	0.10897935	0.37903342	0.2875191	0.77371488	NA
Ppargc1a	2.39917774	0.10892244	0.29197907	0.37304879	0.70911213	NA
Siah2	1176.37777	0.10851845	0.37516071	0.28925857	0.77238351	0.90953627
Cdv3	17073.8194	0.10842458	0.18621487	0.5822552	0.5603948	0.79834183
Skor1	1.46623323	0.10839447	0.28475319	0.38066113	0.70345471	NA
Gm4871	0.88943442	0.10835305	0.20033503	0.54085922	0.58860462	NA
Gm14137	0.88943442	0.10835305	0.20033503	0.54085922	0.58860462	NA
Hspa8	147010.21	0.10826408	0.27533382	0.39321024	0.69416421	0.87496374
St5	4513.07866	0.10824332	0.19135742	0.56566044	0.57162463	0.80538015
Cxxc4	0.97741075	0.1081053	0.2072056	0.5217296	0.60185861	NA
Asun	5629.48224	0.10799221	0.16172486	0.66775273	0.50429145	0.76042241
Gcnt3	113.204743	0.10782817	0.38325193	0.28135064	0.77844147	0.91231768
Tmem38a	1343.41211	0.10773936	0.23789887	0.4528788	0.65063602	0.84904399
Doc2b	72.4543976	0.10772406	0.43214423	0.24927803	0.80314572	0.92352256
Tsn	11039.4867	0.10771499	0.14778999	0.72883817	0.46610066	0.73498824
Rasl12	4.78569726	0.10769886	0.40806716	0.26392435	0.79183821	NA
Gpatch2	1746.84766	0.10769172	0.2166732	0.49702372	0.61917233	0.83092413
1110028F18F	8.79725021	0.10763221	0.40073474	0.26858716	0.78824739	0.91710573
Stt3b	12061.534	0.10757416	0.15862801	0.67815364	0.49767428	0.75633679
Pcdha12	0.99711632	0.10756506	0.20559932	0.52317812	0.60085031	NA
Vwa7	19.6212662	0.10754495	0.41922257	0.25653426	0.79753833	0.9212691
Ccdc126	544.21847	0.10753947	0.22189809	0.48463452	0.62793562	0.83543543
Rrp8	3451.78989	0.10752719	0.15628634	0.68801403	0.49144395	0.75186608
Dcaf8	7569.23084	0.10745962	0.15027237	0.71509901	0.47454787	0.74052205
Dhx57	2645.67361	0.10728514	0.16020246	0.66968473	0.50305879	0.75940849
Tspear	34.0211711	0.10721012	0.39868566	0.26890889	0.7879998	0.91705183
Lhfp13	1.10323841	0.10719296	0.24207024	0.44281758	0.65789768	NA
Crhr2	198.122061	0.1070811	0.29649462	0.36115697	0.71798211	0.88550557
Cdx4	10.7003215	0.10697321	0.37029765	0.28888437	0.77266986	0.90962818
Cnr1	11.4172922	0.1069316	0.42107267	0.25395046	0.79953383	0.92216499
Arl4c	346.794238	0.10686863	0.31845993	0.33557951	0.73718798	0.89401936

Pde6h	1.73612297	0.10678618	0.30485309	0.35028735	0.72612306	NA
Psmf1	2270.48159	0.10672622	0.169241	0.63061682	0.5282911	0.77552483
Itgam	47.099477	0.10672128	0.41255741	0.25868225	0.79588042	0.92054566
Cdk2ap1	804.182713	0.10670375	0.21638645	0.49311659	0.62193021	0.83196874
C030034I22R	76.225629	0.10667756	0.40121586	0.2658857	0.79032724	0.91812832
Kif9	92.2356125	0.10663033	0.36813425	0.28965067	0.7720835	0.90945845
Supt6	12433.8875	0.10652008	0.27428307	0.38835821	0.69775096	0.87647215
Taf11	2439.68434	0.10640625	0.16844517	0.63169662	0.52758514	0.77506906
Olf376	3.57893641	0.1063699	0.30149724	0.35280557	0.72423421	NA
Zfp335	2129.40319	0.10633517	0.22698543	0.46846694	0.63945071	0.84236323
Tlr1	3.1441027	0.10625403	0.3336632	0.31844696	0.75014592	NA
Sfta2	5.80481229	0.1061606	0.39417873	0.26932097	0.78768269	NA
Pramel5	5.30693202	0.10605869	0.38196544	0.27766567	0.78126902	NA
Spdya	16.6898873	0.10602117	0.4321226	0.24534974	0.80618564	0.92517105
AK010878	548.319562	0.10598512	0.26271571	0.40342131	0.68663831	0.87055301
Fytd1	12629.5474	0.10592724	0.17511121	0.6049141	0.54523607	0.78661205
Phf11c	122.914648	0.105878	0.27502642	0.38497393	0.70025673	0.87785127
Ifi204	1.83084237	0.10582156	0.20335193	0.5203863	0.60279436	NA
Thumpd1	8327.24425	0.10582016	0.15255431	0.69365562	0.4878982	0.74917686
Plvap	88.8347199	0.10579848	0.32678479	0.32375582	0.74612291	0.89917524
Cdk2	13196.0076	0.10575663	0.15821478	0.66843715	0.50385459	0.76005847
Fam71d	1.75582854	0.10562786	0.29975799	0.35237714	0.72455545	NA
Olf143	1.0763771	0.10548273	0.24358369	0.43304514	0.66498198	NA
A730020E08F	3.28048481	0.10543458	0.33810744	0.31183752	0.75516401	NA
Zfp169	324.659263	0.10530129	0.25273046	0.41665451	0.67693113	0.86492121
Klhl9	3455.08321	0.10528908	0.33569604	0.31364408	0.75379138	0.90191816
Ggt1	1615.50894	0.10513813	0.36974859	0.28435032	0.77614193	0.91080372
Tmem106c	692.538984	0.10508236	0.27725193	0.37901399	0.70467748	0.87942876
Kdsr	2682.71049	0.10505303	0.16973142	0.61893683	0.53595798	0.78060232
Icmt	3050.48027	0.10498669	0.1831198	0.57332245	0.56642639	0.80234403
Pcyox1	4298.1504	0.10496215	0.19197347	0.54675341	0.58454816	0.81156222
Bhlha9	6.98838592	0.10485884	0.42055336	0.2493354	0.80310135	0.92352256
C330024C12F	11.2903543	0.10483391	0.43086051	0.24331288	0.80776303	0.92616109
Mapre3	248.375624	0.10482974	0.27498718	0.38121683	0.70304236	0.8791919
Mocs3	795.325667	0.10479078	0.22498085	0.46577644	0.64137553	0.84346082
Btg1	2909.81251	0.10473887	0.26540421	0.39463905	0.69310929	0.87461511
Serpina3m	896.792758	0.10452656	0.39397613	0.26531191	0.79076919	0.91829081
Clpsl2	1.41966634	0.10451596	0.28843172	0.36235945	0.71708343	NA
Atg4b	4710.17965	0.10439489	0.19467148	0.53626184	0.5917776	0.81635177
Pik3r1	1731.79039	0.10436145	0.22562896	0.4625357	0.64369721	0.84502239
Acsbg1	15.9079929	0.10433969	0.42866859	0.2434041	0.80769237	0.92614835

Hdlbp	31382.2691	0.10433106	0.18596692	0.56101944	0.57478429	0.80673793
Ace	466.078892	0.10418184	0.39019059	0.26700244	0.78946728	0.91776973
Otud7a	25.6428873	0.10417532	0.41021858	0.25395077	0.79953359	0.92216499
Nfatc2ip	24616.7213	0.1041281	0.18402988	0.56582169	0.571515	0.80538015
Mustn1	5.10552098	0.10405961	0.41123873	0.25303943	0.80023774	NA
Atf6	3429.23877	0.10404931	0.16070918	0.64743851	0.51734818	0.76797266
Lipt2	552.574621	0.10394594	0.24028006	0.43260328	0.66530301	0.85788782
Smim1	190.996236	0.10387298	0.37429045	0.27751972	0.78138107	0.91337854
1700066B19F	106.874927	0.10380573	0.42433103	0.24463383	0.80673996	0.92559319
Ppt2	992.223302	0.10377887	0.22619673	0.45879915	0.64637841	0.84705994
Zfp280b	5770.09708	0.10376808	0.24339058	0.42634387	0.66985729	0.86069163
Srek1	5484.7672	0.10376457	0.1698262	0.61100449	0.54119661	0.7847247
Tulp2	671.147023	0.10370606	0.21431191	0.48390243	0.62845511	0.83573631
Nucb2	747.400325	0.10369532	0.22650627	0.45780331	0.64709376	0.84762087
Tfcp2l1	76159.193	0.10368959	0.21684901	0.47816491	0.63253284	0.83829198
Pgbd5	715.308351	0.10365521	0.19285977	0.53746414	0.59094705	0.81592982
Tiparp	3245.08946	0.10352512	0.25330605	0.4086958	0.68276292	0.86812434
Vps13c	3463.29286	0.10350248	0.26052985	0.39727683	0.69116333	0.87369566
6030458C11F	6907.95047	0.10349583	0.16180349	0.63963905	0.52240729	0.77084692
Ppp2r2b	1.7164174	0.10347159	0.30453408	0.33977014	0.73402964	NA
Cnpy2	5330.65902	0.10344622	0.2138082	0.48382717	0.62850853	0.83573631
Uggt2	968.48432	0.1034295	0.41818465	0.24732974	0.80465305	0.92395773
Rnf38	3914.95677	0.10337686	0.20204606	0.51164996	0.60889601	0.82562526
Hoxb7	39.6020779	0.10333739	0.39249308	0.26328461	0.79233122	0.918989
Apobr	277.460242	0.10331699	0.26396882	0.39139846	0.69550273	0.87541586
Kcnj12	1535.87529	0.10329972	0.20595571	0.5015628	0.61597509	0.82999989
Pfn1	31236.0782	0.10326922	0.21493638	0.48046412	0.63089741	0.83726622
Gm7534	0.91151568	0.10325307	0.20115495	0.51330117	0.60774066	NA
Krt75	0.91151568	0.10325307	0.20115495	0.51330117	0.60774066	NA
Sp6	763.604841	0.10318967	0.21594613	0.47784912	0.63275759	0.83846625
Il1r2	29.2315201	0.10317388	0.39852037	0.25889237	0.79571828	0.92042659
2410137M14	902.895243	0.10302888	0.16978323	0.60682599	0.5439664	0.78623679
Rnf121	1347.64318	0.10301507	0.16060467	0.64142016	0.52124974	0.77003139
Efhc2	1471.2914	0.10299335	0.26470376	0.38908911	0.69721023	0.87645821
Dancr	1186.83376	0.10287258	0.20203693	0.50917714	0.61062806	0.82630326
Krt19	190.35421	0.10283485	0.37604242	0.2734661	0.78449495	0.91499895
Ehbp1l1	262.062558	0.10281002	0.22576023	0.45539474	0.64882528	0.84862854
Zmym5	2440.52598	0.1027552	0.20125898	0.51056206	0.60965775	0.82596491
1500015O10I	7.15178873	0.1024631	0.4201635	0.24386483	0.80733551	0.9258757
Phf14	4074.78384	0.10244395	0.15921163	0.64344516	0.51993529	0.76982897
Dnajc11	9481.25614	0.10241092	0.17594196	0.58207219	0.56051806	0.79840677

2310030G06I	584.914355	0.10239958	0.21919214	0.46716811	0.6403796	0.84294424
Gbp6	3.37368566	0.10238258	0.25876088	0.39566485	0.69235229	NA
Tnfsf13	32.9442515	0.1023803	0.39221052	0.26103405	0.79406625	0.91975523
Fam207a	2193.28052	0.10234591	0.22239862	0.46019127	0.64537893	0.84629525
Ube2e3	3298.72369	0.10232358	0.17158088	0.59635773	0.55093627	0.79097822
1700047E10F	6.34499717	0.10211534	0.4177975	0.24441347	0.80691061	0.92559319
lp6k1	6274.46508	0.10210284	0.16773523	0.60871433	0.54271381	0.78543607
Ccdc32	803.891097	0.10204361	0.20923033	0.48770946	0.62575565	0.8342157
B3gat1	1.49773385	0.10200489	0.28999169	0.35175108	0.72502495	NA
9630028H03I	1.16576353	0.10193515	0.18339808	0.55581362	0.57833827	NA
Sumf2	5170.78713	0.10185808	0.20376225	0.4998869	0.61715472	0.83032065
Zfp513	1662.66653	0.1018497	0.19063991	0.53425172	0.59316739	0.81705522
Ubp1	8532.09769	0.10178925	0.17039295	0.59737948	0.55025405	0.79070419
Arhgef9	23.9267662	0.10175491	0.42550481	0.23913927	0.81099759	0.92781752
Keap1	2745.29112	0.10172925	0.1974489	0.51521811	0.60640062	0.82429551
Pcdh9	1.67619037	0.10172895	0.25989377	0.39142511	0.69548303	NA
Ube2j2	291.299483	0.10171772	0.24363305	0.4175038	0.67630995	0.864488
Lsm2	4559.51325	0.10165003	0.16773008	0.60603342	0.54449256	0.78623679
Sh3gl1	4600.32193	0.10164829	0.1951876	0.52077225	0.60252543	0.8223515
Atp6v1c2	172.530321	0.10164739	0.27270736	0.37273433	0.70934618	0.8816794
Loh12cr1	465.796617	0.10158128	0.20329124	0.4996835	0.61729795	0.83032065
Vps26b	3125.83552	0.10153879	0.17520921	0.57952887	0.56223238	0.79934866
Pex6	1448.37598	0.10151267	0.21163071	0.47966891	0.63146284	0.83751629
Sec1	245.680847	0.10149321	0.3361608	0.30191864	0.76271409	0.90517207
lqch	2.61910189	0.1014802	0.32561032	0.31166149	0.75529779	NA
Nkx2-3	3.91275534	0.10144769	0.35471611	0.28599684	0.77488054	NA
Apba1	6.14359617	0.10135381	0.40737246	0.24879887	0.80351637	0.92367556
Srsf11	17289.425	0.10135257	0.15602552	0.64958968	0.5159573	0.76711938
Psg17	1.77515672	0.10133189	0.29995798	0.33782027	0.73549863	NA
Gnpda1	8883.68617	0.10130744	0.17780391	0.5697706	0.5688333	0.8038345
Dlx6os1	2.10589614	0.10129836	0.34084683	0.29719614	0.76631677	NA
Inadl	728.594421	0.10129208	0.3357027	0.30173151	0.76285674	0.90517207
Trpc7	2.8556173	0.10124749	0.32553057	0.31102297	0.75578316	NA
Dzank1	124.291368	0.10112674	0.38454846	0.26297527	0.79256964	0.91904038
Zfp622	4422.808	0.10105995	0.16350976	0.61806679	0.53653132	0.78079716
Orc6	10084.4756	0.10089723	0.19556967	0.51591453	0.60591411	0.82418428
Rassf7	2072.45768	0.10078906	0.22847369	0.44114075	0.6591111	0.85421847
Coro2a	42.3575574	0.10068485	0.39000673	0.25816183	0.79628202	0.92066778
Spopl	793.20054	0.10056191	0.22204236	0.45289517	0.65062423	0.84904399
Mesdc2	10468.0543	0.10053248	0.17560173	0.57250277	0.56698141	0.80254878
Edem1	4214.57716	0.10046566	0.19116929	0.52553243	0.59921311	0.8201599

Glb1l3	1.13955748	0.10046395	0.18319716	0.54839252	0.58342241	NA
Drd5	10.0200331	0.10034821	0.3890919	0.25790362	0.79648129	0.92070321
Nup50	8695.95486	0.10032737	0.19514311	0.51412201	0.60716669	0.82475941
Zbtb8os	2287.59974	0.10029647	0.21913577	0.457691	0.64717445	0.84765518
Fam46a	47.1429329	0.10020179	0.38531072	0.26005451	0.79482173	0.91980692
Dydc2	2.28018663	0.10010179	0.31988621	0.31292937	0.75433432	NA
Pvrl1	1361.68218	0.10006586	0.19600819	0.51051875	0.60968808	0.82596491
Rreb1	3588.18314	0.10006433	0.251594	0.39772143	0.69083554	0.87364263
Rwdd2a	480.629829	0.09987877	0.2143868	0.46588116	0.64130057	0.84346082
Mob3b	924.831002	0.09987162	0.27260537	0.36635971	0.71409668	0.88425449
Ldb1	10763.6729	0.09976893	0.20819008	0.47922039	0.63178185	0.8377965
4930515G01l	11.2086025	0.09975745	0.40757216	0.24476021	0.8066421	0.92559319
Ptms	9168.10107	0.09970689	0.20132582	0.49525138	0.62042269	0.83152574
Irf2bpl	5650.09504	0.09968926	0.27956319	0.35658938	0.72139923	0.88683632
Snord73a	45.8359753	0.09968331	0.42283732	0.23574861	0.81362775	0.92878688
Jmjd4	1727.80315	0.09967652	0.19272388	0.51719861	0.60501753	0.82372855
Tmem101	1835.46694	0.0995926	0.21967022	0.45337326	0.65027999	0.84900546
Vps33b	1522.03607	0.09957872	0.18253914	0.54551983	0.58539605	0.81209791
Spop	3726.196	0.09955965	0.17868032	0.55719425	0.57739472	0.80734073
Elk3	509.500304	0.09939184	0.32476461	0.30604272	0.75957212	0.90393112
Il18bp	160.988066	0.09938382	0.27237189	0.3648828	0.7151989	0.88470138
Psm7	15797.3216	0.09919477	0.20858377	0.47556323	0.63438557	0.83928202
Aup1	3812.33171	0.09912469	0.1833858	0.54052545	0.58883472	0.8143171
Pigx	2402.49764	0.09912282	0.24901384	0.3980615	0.69058486	0.87353873
Chmp1a	5241.80317	0.09903591	0.22263494	0.44483543	0.65643869	0.85271673
Ccar1	13077.037	0.09901064	0.19001853	0.52105783	0.60232649	0.82215213
2010012O05l	367.878807	0.09897141	0.23500451	0.42114685	0.67364785	0.86321737
Padi4	577.71078	0.09896322	0.24048849	0.41150918	0.68069921	0.86681269
Hps4	1473.20988	0.09892522	0.19640858	0.50367057	0.6144929	0.82915219
Cox5b	8951.15334	0.09890855	0.20891387	0.47344176	0.63589804	0.83996011
Tmem136	1203.09032	0.09887929	0.22404534	0.44133605	0.65896973	0.8541834
Gbx2	973.86963	0.09883524	0.39539245	0.24996745	0.80261252	0.92349559
Itih1	1.22621065	0.09879067	0.21919127	0.45070531	0.65220195	NA
G6pc	1.22621065	0.09879067	0.21919127	0.45070531	0.65220195	NA
Pick1	2415.1666	0.0987903	0.18975941	0.52060817	0.60263976	0.82236318
2410088K16f	228.986313	0.098703	0.38595169	0.25573926	0.79815218	0.92164102
4930506M07	387.88075	0.09868776	0.33042378	0.29867025	0.76519166	0.90610594
Psme2b	42.7429264	0.09860214	0.39801042	0.24773759	0.80433745	0.92393645
Ppp6r1	6138.22768	0.09858938	0.18389931	0.53610521	0.59188584	0.81637641
Jmy	2220.91689	0.09852018	0.24661487	0.39949	0.68953219	0.87262736
Brk1	7082.5006	0.09848062	0.1897648	0.51896148	0.6037876	0.82288924

Ccdc101	1744.35712	0.09833613	0.17548667	0.56036239	0.57523228	0.80705857
Plekhs1	39.0635513	0.09827187	0.4080868	0.24081119	0.80970146	0.92748171
Map2k2	4955.46463	0.09825662	0.17238427	0.56998602	0.56868718	0.80374937
Sys1	1333.75869	0.09819321	0.18792711	0.5225069	0.60131745	0.82154763
Bex1	12272.8547	0.09812421	0.18030761	0.54420447	0.58630078	0.81262032
Snord15a	11.2386651	0.09799432	0.43090381	0.22741575	0.82010047	0.930536
Cox4i1	25580.3077	0.09779166	0.2166218	0.45143961	0.65167274	0.84981368
2310047M10	437.688838	0.09777417	0.27010836	0.36198126	0.71736603	0.88502651
Sik3	2406.1603	0.09774516	0.22466957	0.43506185	0.66351753	0.85668869
Gprasp1	6586.07741	0.09760671	0.21137165	0.46177768	0.64424076	0.84545047
Cdh11	82.6089559	0.09753504	0.37777923	0.25817999	0.796268	0.92066778
Hr	284.068142	0.09750946	0.33567847	0.29048469	0.77144546	0.90884457
Lpar5	479.849694	0.09744746	0.26424195	0.3687812	0.71229082	0.88367248
Serpina3h	147.156518	0.09720626	0.38168892	0.25467404	0.79897487	0.92171351
Hpgd	235.947489	0.09719176	0.34593909	0.2809505	0.77874837	0.91247106
Galk1	6149.45884	0.0971199	0.25328869	0.38343558	0.70139683	0.87816834
Anks1	2515.77624	0.09697065	0.18857153	0.51423803	0.60708558	0.82473904
Rdh14	413.678447	0.09694938	0.26052135	0.37213603	0.70979157	0.88183819
ltpkc	1735.01738	0.09693983	0.17873257	0.54237358	0.58756117	0.81340776
Dnajc24	850.834302	0.09685378	0.17720683	0.54655784	0.58468254	0.81167633
Slc35a2	739.058824	0.09680731	0.21122697	0.45830943	0.64673015	0.84723143
Asb3	1368.81781	0.09677108	0.18903171	0.5119304	0.60869972	0.82562526
Fcrl1	5.02095592	0.09676915	0.40074187	0.24147503	0.80918697	NA
Capn15	850.465245	0.09675616	0.27388211	0.35327666	0.72388104	0.88829071
Cdc42se2	8246.04622	0.09656801	0.1513501	0.63804393	0.52344508	0.77157293
Gja4	191.99724	0.09655498	0.30750377	0.3139961	0.753524	0.90191816
2700070H01I	10.7718449	0.09653187	0.42903739	0.22499641	0.82198207	0.93079758
Eif5b	21406.6845	0.09642424	0.16378773	0.58871469	0.55605268	0.79522766
Nova1	517.778014	0.0962701	0.22804828	0.42214787	0.67291709	0.86279388
Mylk4	2.3049089	0.09626082	0.319045	0.3017155	0.76286895	NA
Mir3057	3.93068312	0.09620589	0.39377532	0.24431672	0.80698553	NA
Spink10	25.5325223	0.09616303	0.4299973	0.22363635	0.82304027	0.93107393
Bex6	6.82796841	0.09615968	0.38794345	0.24787036	0.80423472	0.92388669
Map2k3	3456.64242	0.09609771	0.19511073	0.49252908	0.62234537	0.83238091
Atp5l	48.8845405	0.09609061	0.38390214	0.25029974	0.80235556	0.92349342
1500009L16F	1006.38282	0.09601282	0.26769112	0.35867016	0.71984186	0.88597235
Stx1b	35.8353579	0.09600689	0.40954445	0.23442362	0.81465613	0.92896417
Laptm4b	4384.4996	0.09599073	0.32744677	0.2931491	0.76940819	0.90764437
Tmco3	745.991847	0.09590534	0.22604045	0.42428397	0.67135873	0.86169525
A730036I17R	217.014637	0.09582058	0.30628976	0.31284293	0.7544	0.90191816
Cited1	610.113762	0.09579255	0.43062423	0.22245044	0.82396325	0.93107393

Atp9a	4624.48868	0.09576794	0.1789248	0.5352413	0.59248301	0.81685504
LOC1026324	2.0352497	0.09576707	0.31483733	0.30417953	0.76099112	NA
Klk1b22	18.9815368	0.09573952	0.41456852	0.23093775	0.81736316	0.93024054
Myl12a	12005.47	0.09569814	0.18750632	0.51037285	0.60979027	0.82596491
Taf1d	9245.53294	0.09563525	0.21950104	0.43569384	0.66305887	0.85645621
Cenpm	4513.77542	0.09560308	0.24540053	0.38957978	0.6968473	0.87645821
Snora20	5.66362177	0.09554082	0.40433046	0.2362939	0.81320462	NA
Crhbp	3.97560331	0.09551772	0.37791478	0.25274936	0.8004619	NA
Taf13	1202.8281	0.09551487	0.19632221	0.48652094	0.62659786	0.83469537
Nat10	9060.31022	0.09548187	0.18912193	0.50486938	0.61365058	0.82850171
Ctdnep1	2361.51279	0.09546236	0.18710057	0.5102195	0.60989769	0.82596711
Trim67	46.5040331	0.09545578	0.42327623	0.22551651	0.82157749	0.93076517
Znrf4	1.40775923	0.09537285	0.25831504	0.36921136	0.71197019	NA
Myo15	97.1196535	0.0953626	0.38276133	0.24914376	0.80324958	0.92355442
Extl1	591.001254	0.0952258	0.23444038	0.40618343	0.68460783	0.86933674
Ajuba	6492.31965	0.09519166	0.19978567	0.47646891	0.63374035	0.83910568
C920021L13F	8.13197236	0.09516758	0.42863802	0.2220232	0.82429583	0.93107393
Rrp12	6420.2419	0.09508668	0.21031649	0.45211233	0.65118806	0.8494066
Btbd18	178.969198	0.09508643	0.32582817	0.29182998	0.77041662	0.90826254
Atp5g1	8981.20421	0.09506704	0.20093119	0.47313234	0.63611877	0.84003761
Dock11	2767.72145	0.0950485	0.30838426	0.3082145	0.75791912	0.90307174
Lsp1	12.5836986	0.09504182	0.43000514	0.22102484	0.82507309	0.9313139
Me3	1.77312973	0.09502254	0.30511107	0.31143588	0.75546928	NA
Glis2	1861.78443	0.09500599	0.25416591	0.37379515	0.70855673	0.88125982
1700001G17I	4.20497553	0.09498835	0.39807987	0.23861631	0.81140312	NA
Wdr27	3.63959148	0.09495756	0.37611225	0.25247132	0.80067678	NA
Atxn2	4690.63583	0.0949222	0.20848687	0.45529103	0.64889988	0.84862854
1700086L19F	0.79695593	0.09487671	0.19488473	0.48683499	0.62637527	NA
Aplnr	0.79695593	0.09487671	0.19488473	0.48683499	0.62637527	NA
Azin1	10505.2967	0.09485831	0.20848563	0.45498727	0.6491184	0.84869184
Plcx3	3.7188834	0.09485745	0.2602893	0.36443083	0.71553632	NA
H2-Aa	15.6697158	0.0946271	0.43224551	0.21891979	0.82671253	0.93181174
Atpaf2	2115.836	0.09461366	0.23704056	0.39914546	0.68978603	0.87274124
Six5	256.115904	0.09458653	0.26055688	0.36301681	0.71659233	0.88475711
Dpep2	18.5342456	0.09448039	0.43064527	0.2193926	0.82634424	0.93166673
Megf11	674.914915	0.09434681	0.39906212	0.23642136	0.81310572	0.92878688
Smap1	5473.64122	0.09431973	0.16256442	0.58019912	0.56178035	0.79905798
Mycl	2784.36998	0.09430742	0.1969449	0.47885182	0.63204405	0.83803418
Btrc	4143.74025	0.09429986	0.15200591	0.62036967	0.53501444	0.78005097
Zgpat	1670.75438	0.09429614	0.17527131	0.53800101	0.59057635	0.81563524
Myoz3	33.5593989	0.09429148	0.40146351	0.23486936	0.81431013	0.92878688

Lrrc8b	319.33192	0.09427122	0.35678238	0.2642261	0.7916057	0.91860434
Cd3eap	3593.42167	0.09423077	0.20052346	0.46992393	0.63840937	0.8418472
Hsd17b1	59.4512332	0.09421872	0.3985455	0.23640644	0.8131173	0.92878688
Yipf5	3767.35033	0.09419824	0.16108289	0.58478119	0.55869485	0.79686909
Hgsnat	2656.85713	0.0941651	0.22080362	0.42646536	0.66976879	0.86064902
Mdfic	2971.89457	0.09412489	0.16422643	0.57314092	0.56654929	0.80239311
Fgd5	201.00075	0.09401848	0.27978713	0.33603576	0.7368439	0.89391803
Tmem14c	5539.17771	0.09391831	0.19802175	0.47428281	0.63529825	0.83955149
Uba5	3683.1038	0.09379009	0.16290806	0.57572407	0.5648017	0.8012435
Map3k12	1773.80191	0.09374275	0.1796097	0.52192477	0.60172271	0.82168861
Gm10336	2160.97768	0.09363903	0.17166682	0.54546963	0.58543056	0.81209791
Adam21	6.54941948	0.09362081	0.40841347	0.22923047	0.81868979	0.93036217
Sec61a2	3566.44221	0.09362081	0.1795785	0.52133642	0.60213243	0.82203156
Gid8	7256.99429	0.09360413	0.18824851	0.497237	0.61902193	0.83090659
Myrip	28.3805908	0.09358909	0.39733411	0.23554255	0.81378766	0.92878688
Fam107b	2781.9526	0.09347244	0.17740444	0.52688894	0.59827071	0.81984777
Slc25a2	22.5330393	0.09344646	0.42652017	0.21909037	0.82657965	0.93181174
Asb6	1877.77474	0.09323592	0.20988517	0.44422345	0.65688104	0.85275541
Vti1b	3104.92061	0.09321452	0.17970555	0.51870698	0.60396509	0.82288924
Sh3tc1	1958.62335	0.09309735	0.1963681	0.47409608	0.63543139	0.83955765
Dffb	675.216451	0.09308419	0.1894246	0.491405	0.62314003	0.83265488
Alpl	22871.0676	0.09301915	0.17333971	0.5366292	0.59152377	0.81629125
Med10	2707.44315	0.09291469	0.15676814	0.59268863	0.55338955	0.79250032
Arfgap2	3588.69072	0.09288585	0.17478038	0.53144319	0.5951117	0.81809904
Slc30a8	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Kynu	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Kncn	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Olf214	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Olf1453	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Opcml	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Gm10636	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Mptx2	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Adh6a	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
4933431G14I	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Tchhl1	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
1700095A21f	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Smlr1	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
1700003P14F	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Cyp3a59	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Mir6994	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Gm3086	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA

Gm6213	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Gldn	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Slco6c1	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
1700030L20F	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
1700012B09F	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
4921524L21F	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Lgals6	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Mir1b	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Sorbs2os	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Zc2hc1b	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Olf361	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Olf705	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Cd226	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Gfra2	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Cd209c	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Acsm2	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Raly1	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
I13ra2	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Ctsm	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Mdga2	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Olf834	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Fam162b	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Oog4	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Gm1553	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Pcdha10	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Gm7337	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Tas2r139	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
1810046K07F	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Nlrp1a	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Gm9999	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
4930443O20I	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Msr1	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Ugt2b38	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Olf267	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Kcnh5	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
1700025M24	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Fam187a	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Krt82	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Gm5485	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Tnfrsf11b	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Lyg2	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA

Trim58	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Spata9	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Ncr1	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Ifi47	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Abhd12b	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Cd93	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Slamf8	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
3110039M20	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Tfec	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Krt73	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Krt85	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Serpinb13	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Pet117	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Vsig4	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Tmem26	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Pcdhb16	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Mir16-1	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Olf293	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Klri1	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Slc5a7	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Gm10494	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Zcchc5	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Tigd4	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Slc17a8	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Trhr2	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Myct1	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Pate4	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
A630012P03f	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Lsmem1	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Gm11166	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Evx2	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Fbxw18	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Tmem150cos	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Reg3b	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Grxcr1	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Gm12185	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Olf45	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Gpr15	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Nlrp2	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Dmrtc1a	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Tctex1d1	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA

1110036E04F	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Olfr70	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Ifnk	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Enpp6	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
1700092C10F	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Ceacam13	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Vmn2r72	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Olfr128	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Mir6345	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Slc39a12	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Gpr174	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Mir6963	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Tnf	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Pcdha1	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Defb34	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
4930579F01F	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Cpne6	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Mir3474	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Mrgprh	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Ctla2b	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Lipm	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Vwde	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Dok6	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Mir6969	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
ERCC-00046	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
4933416M06	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Spaca3	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Gm6408	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Cyp4b1	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Mir7075	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Kcnj8	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Apol9b	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Rxrg	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Krt9	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
1700080E11F	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Trpc4	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Dupd1	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Pcdh15	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Mir146	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
4732456N10I	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Gabrb1	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA

Mir30c-1	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Defb45	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
4930595M18	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
4932702P03F	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Olf960	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Dcx	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Arhgap20os	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Rprl2	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Ccdc185	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Arhgap15	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
1700066N21I	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Mir199a-1	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Erp27	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Gm10790	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Rfx6	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Skint5	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Tmem174	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Tnmd	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
1700027I24R	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Mycs	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Gprc6a	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Gm15008	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Dsg1b	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
4930455F16F	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Cstl1	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Grm7	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Cyp3a44	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
4930542D17I	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Olf1406	0.16414504	0.09287588	0.15274532	0.60804404	0.54315827	NA
Angptl2	96.943566	0.09287149	0.29090843	0.31924646	0.74953963	0.90084943
Muc20	12.1271279	0.09279793	0.43226962	0.21467604	0.8300199	0.93350976
Il2ra	1.18096692	0.09276354	0.18343813	0.50569387	0.61307157	NA
Tmem240	4.12954904	0.09271389	0.39217902	0.23640707	0.81311681	NA
Snx19	1168.83712	0.09271013	0.20549813	0.4511483	0.65188267	0.84981368
Tomm5	2677.6846	0.09257395	0.22038405	0.42005739	0.67444353	0.86375836
Rsph6a	4.83199881	0.09253227	0.39340575	0.23520823	0.81404712	NA
Plb1	58.7320946	0.09249571	0.36218486	0.25538259	0.79842761	0.92164102
Htr2a	0.97541245	0.09246289	0.18209566	0.50777098	0.61161396	NA
Vmn2r18	0.97541245	0.09246289	0.18209566	0.50777098	0.61161396	NA
Notch3	3933.63633	0.09246015	0.25625774	0.36080919	0.71824209	0.88550762
Phlda3	3792.96789	0.09237664	0.16171251	0.57123992	0.56783702	0.80306738

Pkd2	2202.9433	0.09230142	0.24786359	0.37238795	0.70960402	0.88174608
Al747448	1.33565419	0.09227314	0.2160025	0.4271855	0.66924422	NA
Crygn	19.5487328	0.09216503	0.42509829	0.21680875	0.82835739	0.93256314
Csmd2os	0.78980019	0.09210473	0.19266453	0.47805754	0.63260925	NA
Ctcflos	0.78980019	0.09210473	0.19266453	0.47805754	0.63260925	NA
Ing4	2332.71254	0.09208762	0.19193762	0.47977889	0.63138462	0.83751629
Coro6	123.870661	0.09199189	0.4141038	0.22214695	0.82419949	0.93107393
Gm3458	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Il21	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Muc5b	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Gm5105	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Mir758	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
1700034O15I	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Calcb	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Olfr464	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
2810049E08F	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Olfr972	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Mir92b	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
4931430N09I	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Al314278	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Gm19522	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
2310061N02I	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Gm19299	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Slc9c1	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Gm19990	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
1700109K24F	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Mir6989	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
4930524O05I	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Rhox11	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Bc1	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
1700113H08I	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Grm1	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
B230319C09F	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Vmn2r111	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Olfr699	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Rag1	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Tex37	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Tlr13	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Cyp2j5	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Olfr324	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Pcdhb20	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA

4933438B17F	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Gdf2	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Tigit	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Olf281	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Olf281	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
1700003G13I	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
A530065N20	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Gjb6	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Lipk	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Mir1955	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Mir320	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Olf373	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Gm5415	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Atp4b	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
5430401F13F	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Cela3b	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Hist1h2ba	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Slurp1	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Defb36	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Mir8116	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Avp	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Gm10409	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Mepe	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Hs3st2	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Il1a	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Ang6	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Cd27	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
1700065O20I	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Gm5893	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
1700060C16F	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Mir141	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Obp2a	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
1700122O11I	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
4930444F02F	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Gm6756	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Pdcd1lg2	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Tekt4	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Il1f6	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Nepn	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Mir8106	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Gm11149	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA

Hrh4	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Ccl22	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
6430584L05F	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Cst11	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Hist3h2bb-ps	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Gm14151	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Fbxw28	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Prop1	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Ccdc27	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Vmn2r55	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Ascl3	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Cx3cr1	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
5830403L16F	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Pah	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Prss43	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Mir5107	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Wfdc12	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Emr1	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Olfir875	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Mir370	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Mir3094	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Cts7	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Mir6417	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
ERCC-00130	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Mir224	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Krt26	0.15698929	0.09186002	0.15199284	0.60437069	0.54559722	NA
Mn1	216.232587	0.09177996	0.42223477	0.21736714	0.82792224	0.93249937
Pkp3	480.817462	0.09177867	0.27578528	0.33279032	0.73929257	0.89510578
Gm14322	665.182746	0.09177705	0.20862711	0.43990951	0.66000265	0.8548098
Slc25a22	1198.06364	0.09164948	0.20650678	0.44380858	0.65718098	0.85293118
Mir6905	1.38265958	0.09164678	0.25752591	0.35587403	0.7219349	NA
Mir296	2.29062611	0.09159118	0.28713507	0.3189829	0.74973948	NA
Zfp36l1	3444.6364	0.09148047	0.28810501	0.31752473	0.75084548	0.90104712
Arf6	12084.8632	0.09144198	0.14762157	0.61943511	0.53562976	0.7803571
D8Ertd738e	4140.82284	0.09142621	0.24540056	0.37255907	0.70947664	0.8816794
Orai3	1378.38727	0.09137771	0.19519518	0.46813505	0.63968802	0.84238903
Mrpl46	2825.53179	0.09137739	0.18516478	0.49349229	0.62166479	0.83196874
D630003M21	152.068282	0.09134448	0.3618351	0.25244782	0.80069494	0.92295657
Rcan1	2712.47958	0.09124193	0.24392638	0.37405521	0.70836324	0.88125982
4933434I20R	17.3993725	0.09123222	0.39876189	0.22878871	0.81903314	0.93036217
Nkain2	0.77185627	0.09120632	0.19308809	0.47235601	0.63667269	NA

Dap	608.063989	0.09112675	0.36676423	0.24846139	0.80377744	0.9238391
Rmnd5a	10911.6733	0.09111535	0.19218191	0.47410993	0.63542152	0.83955765
Eif1ad	4768.16258	0.09108734	0.17014731	0.53534401	0.592412	0.81685504
3110082J24R	1.12318062	0.09099338	0.2388596	0.38094922	0.70324093	NA
Fip1l1	6079.26551	0.09099091	0.1772932	0.51322278	0.60779549	0.82527091
2900009J06R	33.5381712	0.09094982	0.38527044	0.23606748	0.81338031	0.92878688
Rbm11	6.18319371	0.09083197	0.40634183	0.22353586	0.82311848	0.93107393
Cpn2	10.51776	0.0908196	0.42557676	0.21340356	0.8310122	0.93388284
Tmx4	778.501637	0.09073828	0.28801099	0.31505144	0.7527226	0.90191816
9230116N13I	40.1926231	0.09072015	0.37398567	0.24257653	0.80833346	0.92667849
Ubxn1	15797.6881	0.0906744	0.2058251	0.44054102	0.65954531	0.854457
Synrg	2314.74764	0.09066791	0.21275002	0.42617111	0.66998316	0.86078224
Btbd19	2112.79975	0.09065967	0.208574	0.43466429	0.66380612	0.85688129
3110043O21I	2204.43875	0.09064554	0.22207905	0.40816791	0.6831504	0.86824483
Der1l	3402.98377	0.09059418	0.15135812	0.5985419	0.54947841	0.78995459
Ddx20	6867.31318	0.09058424	0.18451995	0.4909184	0.62348416	0.83265488
Tm9sf1	2664.03401	0.09055122	0.18082724	0.50076094	0.61653938	0.83032065
Zdhhc8	1414.90066	0.09049195	0.21766725	0.41573527	0.67760373	0.86555439
Lars2	22971.4923	0.09044051	0.23674654	0.38201409	0.70245091	0.87879687
Coa3	2334.59127	0.09037172	0.19912529	0.45384353	0.64994145	0.84900546
Mirlet7i	1.27037316	0.09029182	0.22030539	0.40984844	0.68191713	NA
Pdlim5	4499.80267	0.0902594	0.25448032	0.35468124	0.7228284	0.88761091
Gtf3c6	2737.7482	0.09024537	0.18973202	0.47564651	0.63432624	0.83928202
Ttc33	1909.56889	0.09020757	0.15395156	0.58594774	0.55791063	0.79640795
Ercc5	3495.12469	0.09018075	0.18052402	0.49954988	0.61739205	0.83032065
Cd36	4.82886835	0.0901588	0.39684056	0.22719151	0.82027483	NA
Cisd1	5683.49253	0.09015524	0.21989023	0.41000111	0.68180513	0.86734737
2210408I21R	335.750891	0.09015187	0.22658876	0.39786556	0.69072929	0.87364263
Mir7-2	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Mir7213	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Ccr9	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Cntn5	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Pcdha6	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Sbpl	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Olf5	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Nxph1	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Gm6568	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Mptx1	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
E030002O03I	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
4933430M04	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Hoxb6	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA

Gm5148	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Pcdh20	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
B930025P03f	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Stmn4	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Six6	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Gm10389	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Gm1993	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Olf980	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Mir136	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Rn4.5s	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Gabra2	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
S100b	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Krtap14	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Bsx	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Clca6	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Rnf148	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Dlx6as2	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Snord90	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Olf9564	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Rhox12	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
6330407A03f	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Lrit1	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Gm19466	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Gm15880	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Acvr1c	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Lyzl4os	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Ms4a8a	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Sult2a7	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Olf91195	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Tgm7	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Vmn2r26	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Gm13003	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Scgb2b3	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Defb13	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Gm10865	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Mir431	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Mir6902	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Olf9328	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Tbc1d21	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Trim55	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
4930567H12l	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA

D630010B17I	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Abca15	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Ttc39d	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
4930448I18R	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Acss2os	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Nr1h5	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
AA387883	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
2310005E17F	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Gm8884	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Gm12633	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Cyp7a1	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
4933417E11F	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
1700120K04F	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Gm5166	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Pcdhb10	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Msx1os	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Hmgb4	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Trem1	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Mir103-2	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Smpx	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Gm6878	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Ankub1	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Rbp3	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
C030034L19F	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Vmn2r39	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Slco1a4	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Mir6960	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Mir219-2	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Pvalb	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Mir154	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Mir6357	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Ifne	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
H2-M10.6	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Pth2	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Wdr38	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Adora3	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
4930563E18F	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Ccdc183	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Wap	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Hoxb5	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
4933425B07F	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA

Mir3081	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Klra17	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Lao1	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Mir669i	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Gm5476	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Mir6987	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Trpc5	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Gm9767	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Mir3102	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Syt10	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
ERCC-00096	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Azgp1	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
1700012P22F	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Gcnt7	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
LOC10105576	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Olf1325	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
4933432K03F	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Slc22a29	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Pthlh	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Mir5620	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Gm20125	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Mir7038	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Pcdha5	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
1700017G19I	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Klkb1	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Vmn2r108	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Gm20063	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Prm3	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Mbl1	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
A130077B15I	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Plcz1	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Olf1975	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Olf157	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Psap1	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Lmod2	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Gm7854	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Scg2	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
4930522H14I	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Uchl1os	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Lrrc4c	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Cdh7	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA

Chil4	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
1810008I18R	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
1700013D24I	0.14443946	0.08995891	0.15056924	0.59745875	0.55020114	NA
Sh2d7	4.20019547	0.08993115	0.40216626	0.22361685	0.82305545	NA
Mta2	15390.1832	0.0899305	0.17838575	0.50413504	0.61416649	0.82892753
4930523C07F	1.43160214	0.08991696	0.25761987	0.34902961	0.72706708	NA
Grm3	0.81903718	0.08982505	0.1959231	0.45847097	0.64661412	NA
Arhgap27os3	5.00373809	0.08976724	0.40555505	0.22134416	0.82482447	NA
Psemb5	3069.51564	0.0896819	0.28072853	0.31946129	0.74937674	0.90084943
Rere	6258.79883	0.08965528	0.22291202	0.40220031	0.68753661	0.87088718
Eif6	6367.52784	0.08962567	0.20787688	0.43114786	0.66636086	0.8585804
Mrpl49	5785.75216	0.08960877	0.19268543	0.46505215	0.64189411	0.84385084
Mir134	2.00015143	0.08960862	0.27330669	0.32786838	0.74301118	NA
Rps27	85.9513642	0.08955894	0.30342893	0.29515623	0.76787454	0.90649963
Cirh1a	16146.6698	0.08953479	0.22208959	0.40314719	0.68683995	0.87068415
Sox7	27.6999521	0.08945619	0.4293846	0.20833581	0.83496678	0.93631091
Tstd2	2910.69562	0.0893439	0.17442494	0.51221977	0.60849721	0.82562526
Gpank1	1103.70304	0.08930041	0.21250928	0.42021889	0.67432556	0.86375836
Irx6	0.77009462	0.08928747	0.19126956	0.46681486	0.64063234	NA
Tbc1d10b	6157.95547	0.08928317	0.20460794	0.43636217	0.66257398	0.85619416
Xkr9	19.3125441	0.08928051	0.4113307	0.21705288	0.82816713	0.93250504
Cd300ld	38.4526151	0.08927124	0.43225675	0.20652365	0.8363819	0.93698697
Mtfmt	1083.11012	0.08922298	0.17452419	0.51123559	0.6091861	0.82586113
Krt2	0.82619293	0.08913232	0.19466529	0.45787476	0.64704242	NA
Ppp1r2-ps3	0.82619293	0.08913232	0.19466529	0.45787476	0.64704242	NA
Slc10a1	0.75754479	0.0890985	0.192031	0.46397977	0.64266224	NA
Numb	2325.88781	0.08903098	0.16674492	0.53393519	0.59338637	0.81712136
Ddhd1	2452.5554	0.089026	0.21294204	0.4180762	0.67589141	0.864488
Mansc4	98.2578504	0.08902265	0.37335396	0.23844035	0.81153957	0.92823271
Actn2	116.469558	0.08896201	0.38705341	0.22984426	0.81821279	0.93032296
Stag1	10243.4624	0.08878625	0.18695901	0.47489685	0.63486049	0.83934241
Ihh	6.64235615	0.08878201	0.40581418	0.21877504	0.82682529	0.9318713
Il2rg	284.78646	0.08876385	0.38556394	0.23021823	0.8179222	0.93032296
Ufd1l	4326.25176	0.08860889	0.17236909	0.51406486	0.60720664	0.82475941
Gpr68	58.7368037	0.08858653	0.38388479	0.23076333	0.81749867	0.93024054
Ptpn21	1007.14644	0.08846796	0.22742572	0.38899717	0.69727824	0.87645821
Cacnb4	37.2096691	0.08845463	0.4322716	0.20462745	0.83786321	0.93751696
1700003M07	188.867254	0.08843402	0.31637274	0.27952478	0.77984212	0.91295541
Wsb2	2261.63811	0.08840153	0.17706505	0.49926018	0.6175961	0.83032065
Rpgrip1l	889.760744	0.08839953	0.25400109	0.34802815	0.72781904	0.88986097
Cyb5r1	5631.30981	0.08836688	0.19100561	0.46264021	0.64362228	0.84499536

Zc3hav1l	3478.8586	0.08835854	0.24514694	0.36043092	0.71852491	0.88550762
Snrnp35	860.71442	0.08832232	0.2055055	0.4297808	0.6673551	0.85916281
Cyb5r3	10567.068	0.08829675	0.21350742	0.41355353	0.67920111	0.86604267
Cmtm8	48.3437448	0.08817152	0.40697552	0.21665067	0.8284806	0.93256314
Cetn2	3018.71948	0.08813823	0.21100609	0.41770467	0.67616305	0.864488
Eml6	164.420083	0.08804781	0.2822813	0.31191515	0.75510501	0.90191816
Depdc5	4508.37939	0.08790219	0.1790406	0.49096232	0.6234531	0.83265488
Ereg	0.9974937	0.08788018	0.18226659	0.4821519	0.62969805	NA
Gm5168	0.9974937	0.08788018	0.18226659	0.4821519	0.62969805	NA
Ddb1	79374.3225	0.0878503	0.19689375	0.44618126	0.65546632	0.85234189
Sec61a1	14154.2066	0.08784267	0.17678163	0.49689932	0.61926005	0.83094942
Sh2b1	4316.00608	0.08775964	0.19600361	0.44774501	0.65433723	0.85187093
Sele	0.96117463	0.08772085	0.25921499	0.33840965	0.7350545	NA
Cd164	20710.4773	0.08757833	0.2277876	0.38447364	0.70062743	0.87785127
Slc38a11	1.53788722	0.08754374	0.23035964	0.38003074	0.7039226	NA
Slc35a1	2205.09619	0.08743254	0.15130643	0.57785079	0.56336486	0.79999829
Tsen34	4434.35039	0.08729769	0.20410325	0.42771336	0.66885982	0.86004954
Gch1	208.100123	0.08727619	0.37374255	0.23351955	0.81535799	0.92939072
Madd	1201.57351	0.08723022	0.24429316	0.3570719	0.72103798	0.88656328
Mir363	31.2318282	0.08722346	0.40167744	0.21714801	0.828093	0.93250504
Ctrb1	0.81188144	0.08714431	0.1937147	0.44985906	0.65281207	NA
Tmprss4	3.12653617	0.08712337	0.30402278	0.28656856	0.77444269	NA
Vat1	13238.1228	0.08710649	0.15840887	0.54988393	0.58239899	0.81000763
Wdr77	14196.4776	0.0870112	0.19110442	0.45530708	0.64888834	0.84862854
Tmsb15b2	2.39410718	0.08696993	0.32209951	0.27000949	0.78715295	NA
Nr4a3	1.16635171	0.08693915	0.24638964	0.35285227	0.72419919	NA
Qpctl	731.562623	0.08689843	0.1957481	0.44392989	0.65709328	0.85288854
Col13a1	165.731306	0.08687245	0.32972516	0.26346926	0.79218891	0.918989
Awat2	58.7273365	0.0868124	0.37227326	0.23319536	0.81560971	0.92946992
Meig1	1.13271205	0.0868033	0.24250808	0.35793982	0.72038835	NA
Rai2	0.62026107	0.08679309	0.20658811	0.42012623	0.67439324	NA
Pcdhb1	0.62026107	0.08679309	0.20658811	0.42012623	0.67439324	NA
Stk11ip	2124.11952	0.08678415	0.18644744	0.46546177	0.64160081	0.84362342
Ldlrap1	1586.44932	0.08668747	0.16972792	0.51074376	0.6095305	0.82596491
Scarna17	0.7521507	0.08666793	0.18995971	0.45624373	0.64821472	NA
Rbm19	3784.39566	0.08663339	0.24845652	0.34868632	0.72732482	0.88975993
Smim11	667.265326	0.08660128	0.23904389	0.36228194	0.71714136	0.88488973
Sec62	9505.04861	0.08658967	0.16298665	0.53126849	0.59523274	0.81814251
4732491K20F	12.6788145	0.08650093	0.43141427	0.20050549	0.84108526	0.93940315
Clpb	6805.39072	0.08646102	0.18427758	0.46918901	0.63893454	0.84211128
Chp2	1.4859388	0.08639703	0.2543697	0.33965144	0.73411904	NA

Dag1	13746.0478	0.08637412	0.21546868	0.40086626	0.68851859	0.871705
Nanos2	0.95401889	0.08625921	0.25887947	0.33320221	0.73898165	NA
Cab39l	3377.92432	0.08625354	0.2368775	0.3641272	0.71576303	0.88472721
Lysmd1	54.9329031	0.08623621	0.34449143	0.25032904	0.8023329	0.92349342
2810025M15	4411.98483	0.08620861	0.2199375	0.39196867	0.69508136	0.8752397
Wnt9b	0.79393753	0.08619484	0.1941922	0.44386354	0.65714124	NA
Ccdc67	0.79393753	0.08619484	0.1941922	0.44386354	0.65714124	NA
C6	0.79393753	0.08619484	0.1941922	0.44386354	0.65714124	NA
Kti12	1907.58018	0.08610376	0.20540463	0.41919093	0.6750766	0.86411361
Clec2l	28.2642961	0.08607861	0.40072453	0.21480744	0.82991746	0.93346205
Rab30	434.5068	0.08603328	0.32462845	0.26502075	0.79099347	0.91829081
4933434E20F	2017.12432	0.08598946	0.16372544	0.52520528	0.59944049	0.8202282
9030624J02R	7153.46028	0.08597156	0.17365917	0.49505916	0.62055836	0.83154492
E430016F16F	2.49361322	0.08597135	0.35595982	0.24151982	0.80915226	NA
Snord8	3.56704558	0.08587468	0.38046765	0.22570822	0.82142836	NA
Fasl	1.35735806	0.08585525	0.21953737	0.39107349	0.69574291	NA
Zfp523	800.239358	0.085826	0.23202088	0.36990637	0.71145225	0.88298435
Rundc1	1119.43609	0.08575733	0.2131492	0.40233475	0.68743768	0.87088718
Pisd-ps1	0.83836537	0.08569518	0.19683194	0.43537234	0.66329218	NA
Hs3st3a1	4.41110924	0.0856537	0.3892296	0.22005956	0.82582477	NA
Phf5a	5382.10389	0.08564121	0.20437797	0.41903347	0.67519167	0.86418977
AU016765	0.74499496	0.08562492	0.18942699	0.4520207	0.65125407	NA
Alpk2	0.74499496	0.08562492	0.18942699	0.4520207	0.65125407	NA
Bach2	338.187321	0.08542205	0.33961379	0.25152703	0.80140667	0.92325551
Vldlr	620.638873	0.08536904	0.33233859	0.25687368	0.79727629	0.92120095
Moap1	2.48144078	0.08534426	0.34694093	0.24599074	0.8056894	NA
Wt1	27.166237	0.08533111	0.42600117	0.20030721	0.84124032	0.93940315
Acbd6	2203.25875	0.08528806	0.17693749	0.48202368	0.62978913	0.83650508
Csf2rb2	0.84552111	0.08505035	0.19554661	0.43493645	0.66360856	NA
Klk1b11	0.84552111	0.08505035	0.19554661	0.43493645	0.66360856	NA
Gm21269	0.84552111	0.08505035	0.19554661	0.43493645	0.66360856	NA
F2	224.314566	0.08498414	0.29420568	0.2888596	0.77268882	0.90962818
Stub1	4706.03431	0.0848028	0.1981988	0.42786737	0.66874769	0.8600411
Hhatl	1.12016222	0.08478925	0.24197559	0.35040413	0.72603542	NA
5730422E09F	4.07596716	0.0847513	0.36427449	0.23265779	0.81602715	NA
Rbm45	3328.49803	0.08471651	0.17437365	0.48583322	0.62708542	0.83498616
Chpf	1646.64427	0.0846085	0.25938525	0.32618855	0.7442817	0.89800021
Ikbkb	2197.64	0.0845373	0.17313574	0.48827179	0.62535734	0.8340422
Nudt15	72.6294834	0.08447731	0.33759563	0.25023224	0.80240776	0.92349342
Fkbpl	506.401391	0.08441825	0.20477153	0.41225577	0.68015196	0.86644421
Cldn11	0.79217587	0.08435626	0.19237007	0.4385103	0.66101641	NA

Mir7014	0.79217587	0.08435626	0.19237007	0.4385103	0.66101641	NA
Hnrnpa1	2678.10206	0.08423184	0.20833157	0.40431623	0.68598019	0.87019153
Csgalnact1	29.7340607	0.08418455	0.42791445	0.1967322	0.84403711	0.94103803
Spata6	1862.61578	0.08417239	0.21356512	0.39412986	0.69348516	0.87485907
Zfp750	361.161971	0.08414836	0.34930276	0.24090379	0.80962969	0.92748171
Neurod4	4.90017974	0.08413304	0.34922258	0.24091524	0.80962081	NA
Dpysl3	3367.30716	0.08403235	0.34696386	0.24219339	0.80863032	0.92681383
Atp11c	2962.5489	0.08402917	0.25265262	0.33258776	0.73944548	0.89515154
Tacr2	19.6508136	0.08391787	0.43034842	0.19499984	0.84539308	0.94147896
Sfr1	13823.257	0.08385423	0.16954893	0.49457249	0.62090193	0.83171324
Hist2h2ac	1.23987941	0.08381691	0.21573919	0.38851036	0.69763839	NA
Zfp583	458.231363	0.08375826	0.20521296	0.40815286	0.68316145	0.86824483
Kcnj4	152.79765	0.08359018	0.36561223	0.2286307	0.81915596	0.93036217
Nenf	297.467859	0.08355415	0.30000199	0.27851199	0.78061936	0.91308099
Slc39a6	2419.87459	0.08341802	0.18619099	0.44802397	0.6541359	0.85168012
Tubgcp4	5256.75113	0.08331503	0.17352345	0.480137	0.63112998	0.83743194
Psg19	0.83297128	0.08330749	0.1947394	0.4277896	0.66880431	NA
Gm1653	0.83297128	0.08330749	0.1947394	0.4277896	0.66880431	NA
BC107364	8.98794672	0.08329067	0.38634331	0.21558718	0.82930955	0.93304824
Asah1	22879.8781	0.08323144	0.18682167	0.44551275	0.65594925	0.85268467
Arhgap44	1970.50492	0.08320899	0.23308182	0.35699479	0.72109571	0.88656328
Mark4	1711.30391	0.08319337	0.2407137	0.34561128	0.72963487	0.89041449
Cbfa2t3	21.3341119	0.08319155	0.42941329	0.19373306	0.8463849	0.94147896
Lrrc41	2335.64856	0.08310711	0.18912315	0.43943381	0.66034724	0.85504245
AU015791	0.83120963	0.08307836	0.19462479	0.42686423	0.66947822	NA
Mir8102	0.83120963	0.08307836	0.19462479	0.42686423	0.66947822	NA
D6Ertd527e	8.94754667	0.08304152	0.43102492	0.1926606	0.84722478	0.94147896
Akip1	1422.67896	0.08302659	0.21020882	0.39497196	0.69286358	0.87461511
Tyms-ps	5.57539558	0.08283177	0.40959437	0.20222878	0.83973788	NA
Chd4	33095.7336	0.08273342	0.23226489	0.35620286	0.72168865	0.8869273
Fam86	2522.75298	0.0827326	0.24488887	0.33783733	0.73548578	0.89343006
Ptar1	271.357282	0.08266559	0.37109806	0.22275942	0.82372276	0.93107393
Morf4l1	16718.9147	0.08263695	0.15177452	0.54447184	0.58611682	0.8126129
Glp1r	38.6089973	0.08262356	0.39145569	0.21106746	0.83283463	0.93498494
Defb1	0.98050281	0.08261966	0.2599647	0.31781109	0.75062824	NA
Cox7b	16844.4409	0.08258429	0.19507663	0.42334283	0.67204515	0.86222046
1700057G04I	1.45731583	0.08252063	0.25361636	0.32537582	0.74489665	NA
Dbnl	5336.64543	0.08243046	0.2186703	0.37696228	0.70620164	0.88047315
Ifnar2	1026.91396	0.08240544	0.22666041	0.36356346	0.71618402	0.88475132
Gprin3	25.4787912	0.08220006	0.42605609	0.19293248	0.84701185	0.94147896
Slc18a2	0.89896585	0.08217108	0.18153371	0.45264916	0.65080139	NA

Prpf31	7967.78785	0.08212326	0.21478118	0.38235778	0.702196	0.87871973
Nr2e1	3.71710968	0.08210814	0.34875719	0.23543067	0.81387449	NA
Mir8105	0.81326571	0.0820948	0.19515403	0.42066667	0.67399851	NA
2010005H15I	0.98104318	0.08206568	0.18216389	0.45050464	0.65234661	NA
Dtd2	1449.94306	0.08205155	0.20412421	0.40196876	0.68770702	0.87089586
Clta	14396.1033	0.08189034	0.19632222	0.41712212	0.67658908	0.8645552
Jmjd7	52.5781524	0.08188677	0.35181987	0.23275197	0.81595401	0.92967334
1700023E05F	0.77423196	0.08176358	0.19110805	0.42783953	0.66876795	NA
Cxcr1	0.77423196	0.08176358	0.19110805	0.42783953	0.66876795	NA
Snora74a	43.7064003	0.08169241	0.37373136	0.21858592	0.82697262	0.93192387
Ndst3	0.81126741	0.08168957	0.18059052	0.45234692	0.65101908	NA
Cdkl4	331.910103	0.08168069	0.30846278	0.26479917	0.79116418	0.91829081
AU019823	3309.91307	0.08161046	0.16619277	0.49105901	0.62338471	0.83265488
Rfx7	7048.10806	0.08160878	0.24124526	0.3382814	0.73515114	0.89329078
Gpcpd1	2060.34339	0.08158863	0.23991723	0.3400699	0.73380389	0.892514
Mir25	101.822811	0.0815654	0.29605876	0.27550411	0.78292897	0.91399508
Tubg1	3655.82761	0.081537	0.21512673	0.37901846	0.70467416	0.87942876
Adipoq	2.61356706	0.08148765	0.32630228	0.24973056	0.80279572	NA
Fryl	5911.49916	0.08145157	0.27248625	0.29891994	0.76500113	0.90610594
Sdhd	14564.9526	0.08145028	0.19726769	0.41289213	0.67968564	0.86637062
Rspry1	3133.58915	0.08143858	0.22440071	0.36291586	0.71666774	0.88475711
Rpl34	73.267467	0.08141021	0.32293014	0.2520985	0.80096493	0.92319935
Slain2	3832.84013	0.08136625	0.19650595	0.41406505	0.67882646	0.86604267
Rps21	39842.7468	0.0812646	0.2229267	0.36453508	0.71545848	0.88472721
C2cd2	1274.98118	0.08124927	0.28073239	0.28941894	0.7722608	0.90946064
Slc12a7	12600.7124	0.08119139	0.18087192	0.44888887	0.65351183	0.85122392
A330074K22f	1.11476813	0.08116331	0.23821774	0.34071061	0.73332145	NA
Prr33	0.97334707	0.08116256	0.25964004	0.31259646	0.75458727	NA
Fxyd2	220.328965	0.0810961	0.42876289	0.18913973	0.8499833	0.94277489
Ncoa3	14354.6964	0.08109123	0.2060841	0.39348613	0.69396047	0.87496374
Lrrfip2	2783.25851	0.08107286	0.18333327	0.44221575	0.65833309	0.85371396
Gm5712	18.0862979	0.08101787	0.42752053	0.18950638	0.84969595	0.94277489
Gpc2	887.64236	0.0809009	0.23450531	0.34498539	0.73010536	0.89067944
Commd7	900.759517	0.08089946	0.22745459	0.355673	0.72208547	0.8872265
Mocs1	719.261666	0.08086804	0.22091551	0.36605866	0.7143213	0.88425449
Arglu1	7734.22141	0.08086794	0.18004449	0.44915533	0.65331961	0.85120266
Abcg8	2.2948755	0.08076725	0.2824863	0.28591565	0.77494273	NA
Otc	0.76707621	0.08073196	0.19059479	0.42357906	0.67187283	NA
LOC1008622f	0.64234232	0.08062742	0.20814716	0.38735776	0.69849137	NA
Mir6999	0.64234232	0.08062742	0.20814716	0.38735776	0.69849137	NA
Gpr26	0.64234232	0.08062742	0.20814716	0.38735776	0.69849137	NA

Tmprss7	3.6600386	0.08056273	0.38195311	0.21092309	0.83294728	NA
D330041H03	40.6989275	0.08051003	0.42576705	0.18909408	0.85001908	0.94277489
Tor4a	943.707054	0.08012531	0.18358703	0.4364432	0.6625152	0.85619416
Ube2s	4445.6252	0.08009684	0.24333047	0.32916898	0.74202796	0.89674206
Znrd1	2961.40854	0.0800863	0.2112713	0.37906851	0.70463699	0.87942876
Btbd1	3200.45131	0.08004484	0.17275325	0.4633478	0.64311509	0.84475739
Rbakdn	79.7805329	0.08002358	0.41171559	0.19436616	0.84588919	0.94147896
Guca2b	0.79895423	0.08002117	0.19416711	0.41212526	0.68024761	NA
AU023762	3.77910405	0.07985084	0.34999653	0.22814751	0.81953157	NA
Ccdc173	168.075894	0.07973531	0.26779079	0.29775226	0.76589226	0.90618168
Rcor1	1726.03939	0.07970599	0.28920147	0.27560712	0.78284984	0.91399508
Cyp4f16	1081.6194	0.07959933	0.22095244	0.36025547	0.71865609	0.88550762
Nyx	5.1105029	0.07955962	0.40871966	0.19465571	0.84566249	NA
Asap2	2349.00673	0.07949448	0.19493074	0.40780885	0.68341401	0.86849484
Enpp1	17.7141465	0.07946962	0.43225586	0.18384855	0.85413226	0.94431772
E430025E21F	8832.45737	0.07946388	0.20836635	0.38136619	0.70293155	0.87914497
Pabpc4	11211.3619	0.07931529	0.20611699	0.38480717	0.70038029	0.87785127
Gm7168	1.09068858	0.07928473	0.21164714	0.37460807	0.70795197	NA
Spint2	4567.34287	0.07928068	0.17353869	0.45684727	0.64778083	0.84806214
Irak2	1191.70861	0.07923933	0.25409829	0.3118452	0.75515817	0.90191816
Ppp1r42	3.9520096	0.07923263	0.39472586	0.20072823	0.84091108	NA
0610009B22F	2130.84534	0.07918331	0.17883771	0.44276629	0.65793479	0.85348214
Ube2q2	3964.3148	0.07895963	0.17645539	0.44747646	0.65453108	0.85205197
Cd37	880.848772	0.0788972	0.25625163	0.30788956	0.75816637	0.90307174
A730090H04	9.37658983	0.07888275	0.42744163	0.18454625	0.85358495	0.94431772
Rps15a-ps6	25.0606798	0.07879527	0.41666831	0.18910791	0.85000824	0.94277489
Pi4ka	6341.9384	0.07876383	0.20901805	0.37682788	0.70630152	0.88052709
Ppp1r7	5370.8624	0.07873703	0.18958008	0.41532333	0.67790523	0.86555439
Csad	2293.44032	0.07865037	0.3004611	0.26176557	0.79350218	0.91957318
C1qtnf1	30.3337997	0.07862332	0.43199207	0.18200177	0.85558134	0.94458789
Ift43	612.815163	0.07861254	0.31454753	0.24992262	0.80264719	0.92349559
Gm11538	25.288378	0.07860366	0.43213329	0.1818968	0.85566372	0.94458789
4930539M17	12.0843526	0.07858354	0.42299606	0.18577841	0.85261854	0.94417652
Rims2	1374.38629	0.07857725	0.22471551	0.34967435	0.72658311	0.88950597
Ccdc88c	5574.24861	0.07856029	0.23694122	0.33156026	0.74022133	0.89553306
Alkbh4	787.347333	0.07849725	0.2069195	0.3793613	0.70441958	0.87942876
Pdgfrl	54.5778774	0.07849118	0.43028444	0.18241697	0.85525551	0.94458789
Fry	2884.44316	0.07848923	0.2823684	0.27796749	0.78103732	0.91325374
Wdr18	7020.08713	0.07842163	0.21555725	0.36380882	0.71600077	0.88472721
Gm14169	1.45429743	0.07839567	0.25899964	0.30268639	0.76212887	NA
Cox7a2	14815.1766	0.07839075	0.2122325	0.3693626	0.71185747	0.88328896

AF357425	3.95139557	0.07836635	0.38281239	0.20471216	0.83779702	NA
Fam131b	2.91885812	0.07825663	0.33605252	0.23287024	0.81586217	NA
1700029H14I	1.3972077	0.07815866	0.25641463	0.30481357	0.76050814	NA
Pcdh8	7.54564145	0.07815493	0.42244366	0.18500674	0.85322375	0.94431772
Cypt3	3.95601942	0.0780872	0.38278113	0.2039996	0.83835381	NA
Acr	1.37248543	0.07808331	0.25130522	0.31071107	0.75602028	NA
Gm6880	43.0296359	0.07803195	0.35236554	0.22145169	0.82474075	0.93107393
Aqp1	2.81746223	0.07802428	0.36808936	0.21197103	0.83212964	NA
Hs1bp3	3724.4069	0.07783301	0.1885388	0.41282224	0.67973686	0.86637062
Mtf1	1935.95627	0.07781191	0.20375278	0.38189371	0.70254021	0.87879687
Cyth1	576.728536	0.07774356	0.21141329	0.36773262	0.71307262	0.88397496
Psen2	518.153593	0.07769816	0.26024243	0.29856071	0.76527525	0.90610594
1700021K19F	1287.00742	0.07749726	0.20685767	0.37464047	0.70792787	0.88112271
1700028E10F	18.5356607	0.07733506	0.43038371	0.17968863	0.85739702	0.94538792
Sap18	565.761165	0.07726072	0.21799556	0.3544142	0.7230285	0.88765129
Rbks	118.183591	0.07722171	0.40798645	0.18927518	0.84987715	0.94277489
Sis	1.69864901	0.07713628	0.2281587	0.33808171	0.73530161	NA
Ankrd49	1734.86328	0.07712523	0.1846446	0.41769554	0.67616973	0.864488
Suv420h2	4861.07383	0.07707058	0.18598261	0.41439671	0.67858359	0.8660364
Ccpg1os	359.500053	0.07706504	0.24427141	0.31548939	0.7523901	0.90182644
Nlrp9c	6.6591747	0.07703083	0.36977157	0.20832004	0.83497909	0.93631091
Ubn1	3128.18685	0.07678844	0.18362842	0.41817298	0.67582065	0.864488
Ccdc22	1877.51487	0.076765	0.19777109	0.3881508	0.69790444	0.87652334
Gpr158	0.83334867	0.07667709	0.18082146	0.42404861	0.67153036	NA
Il1rn	0.83334867	0.07667709	0.18082146	0.42404861	0.67153036	NA
Ahsa2	2799.34624	0.07665949	0.22928233	0.33434538	0.73811895	0.89452055
Tssc1	2183.97459	0.07664275	0.21846684	0.35082098	0.72572265	0.88928462
Rhbdd3	1118.9999	0.07660801	0.20633618	0.37127763	0.71043076	0.88209388
D030040B21I	1.5147984	0.07654399	0.2547378	0.30048146	0.76380993	NA
Gm10556	1.06922136	0.07653285	0.21060194	0.36340049	0.71630574	NA
D630024D03	36.8223607	0.07652546	0.40689523	0.18807166	0.85082048	0.94332734
Pdcd5	3155.32105	0.07644831	0.19528417	0.39147213	0.69544828	0.87541586
Pltp	3802.2905	0.076446	0.19632858	0.38937787	0.69699664	0.87645821
Cacna1d	10.6883701	0.07639026	0.42964041	0.17780046	0.85887969	0.9455234
Ftl1	133407.787	0.0763312	0.17880432	0.42689793	0.66945367	0.86052797
Rnf44	9797.71255	0.07622888	0.22102439	0.34488897	0.73017784	0.89067944
Pla2g15	2476.7105	0.07621359	0.24169095	0.31533488	0.75250741	0.90183745
Srgap2	6620.0578	0.07619086	0.20545899	0.37083245	0.71076233	0.88233934
Zbed4	1108.65895	0.07615608	0.1971535	0.38627813	0.6992907	0.87735184
Rbm5	7644.20641	0.07615021	0.15294883	0.49788029	0.61856842	0.83083067
Atg4d	2493.37956	0.07595031	0.19294362	0.39363993	0.6938469	0.87496374

Mast4	780.749141	0.07594834	0.32315443	0.23502181	0.81419181	0.92878688
Hspb9	4.62996472	0.0759381	0.39419093	0.19264294	0.84723861	NA
Ccdc135	23.2831652	0.07591724	0.42294896	0.17949504	0.85754901	0.94538792
Cttnbp2	651.071843	0.07590841	0.41764385	0.18175392	0.85577585	0.94458789
Tmem147	2721.65964	0.07588846	0.19321072	0.39277564	0.6944852	0.87496374
Eno4	71.2292436	0.07584757	0.38990542	0.19452813	0.84576237	0.94147896
Rab42	21.4017586	0.07582282	0.41411105	0.1830978	0.85472128	0.94455448
Apitd1	1567.37243	0.07568765	0.20492213	0.36934836	0.71186808	0.88328896
Alad	2714.67977	0.07566833	0.19851949	0.38116321	0.70308215	0.8791919
Gpm6a	0.6616705	0.07563363	0.20947834	0.36105704	0.71805681	NA
9230114K14F	234.177179	0.0756012	0.3140381	0.24073895	0.80975745	0.92748171
Ezh2	15568.2677	0.07553059	0.1557215	0.48503634	0.62765057	0.8353812
Uqcrb	12486.1729	0.07547941	0.19601648	0.38506667	0.70018802	0.87785127
Slirp	4706.53996	0.07543487	0.20560614	0.36689014	0.71370097	0.88418475
Txndc5	9242.86225	0.07532972	0.19187189	0.39260427	0.69461179	0.87496374
Mtag2	5.07047773	0.07531646	0.40104004	0.18780286	0.8510312	NA
Preb	4177.39092	0.07530378	0.16838088	0.44722285	0.65471417	0.85212302
Amdhd1	7.50457169	0.07526937	0.41961243	0.17937832	0.85764065	0.94538792
9130401M01	3834.50203	0.0752164	0.16752544	0.44898493	0.65344253	0.85120495
Mir6954	0.99542832	0.07504281	0.26043911	0.28813955	0.77323992	NA
Cr1l	1519.39894	0.07499641	0.16967493	0.44200051	0.65848884	0.85384474
Rgp1	2112.37952	0.07499611	0.20396462	0.36769178	0.71310307	0.88397496
Nceh1	3291.86329	0.07497783	0.26504017	0.28289231	0.77725939	0.91161934
Fgd1	7112.42691	0.07497276	0.18862261	0.39747494	0.69101726	0.87365931
B3galt1	17.0355426	0.07494471	0.43226267	0.1733777	0.86235455	0.94646592
AA474331	66.9920274	0.07491675	0.35056528	0.21370272	0.83077889	0.9337556
Dreh	1.05667153	0.07489085	0.20997708	0.356662	0.72134486	NA
Arpc1a	6286.12893	0.07486474	0.17437401	0.42933425	0.66767999	0.85924293
Olig1	1219.89067	0.07480583	0.36133444	0.20702657	0.8359891	0.93697056
Lgals2	2.70380701	0.07474997	0.32531341	0.22977832	0.81826404	NA
Ppm1g	13678.3814	0.07472777	0.22379448	0.33391248	0.73844561	0.89463755
Npm3	7892.18289	0.07464532	0.17715605	0.42135349	0.67349697	0.86321737
Prame	1.80601463	0.07454031	0.29988327	0.2485644	0.80369775	NA
Stx16	3330.77993	0.07451015	0.16319191	0.45657993	0.647973	0.84807194
Il17d	122.234381	0.07447913	0.36043984	0.20663402	0.83629569	0.93698697
Tex35	2.17478092	0.07443722	0.32139013	0.23161015	0.81684082	NA
Dnase2a	3627.97469	0.07438209	0.27474248	0.27073386	0.78659573	0.91606931
Osgepl1	1180.29633	0.07436002	0.20029621	0.37125025	0.71045115	0.88209388
Zyg11a	2584.53439	0.0743474	0.27969987	0.26581134	0.79038451	0.91812832
Ckap4	5015.24971	0.07428723	0.19138573	0.38815449	0.69790171	0.87652334
Zbtb5	875.959674	0.07426841	0.19407979	0.38266948	0.70196485	0.87857842

Pcdh12	1.15995075	0.07422413	0.21424706	0.34644177	0.72901074	NA
Adrm1	4240.98442	0.07406786	0.21345305	0.34699835	0.72859256	0.8900505
Grk1	6.94911192	0.07404237	0.41898773	0.17671728	0.85973046	0.9455234
Icam4	67.6943796	0.07402237	0.3968784	0.18651146	0.8520437	0.94387602
Hrc	70.2777351	0.07398803	0.40111295	0.18445685	0.85365507	0.94431772
Stk36	294.49113	0.07395218	0.20976976	0.35253975	0.72443351	0.88863204
Rab11fip3	2115.57875	0.07387334	0.19653435	0.37588005	0.70700608	0.88082991
Trip4	3871.70931	0.07385942	0.17659787	0.41823505	0.67577527	0.864488
Cchcr1	1721.95939	0.07372969	0.18583566	0.3967467	0.69155426	0.87391917
Tmem45a	351.748063	0.07369842	0.35453911	0.20787105	0.83532965	0.9365437
Cacnb2	5.50200863	0.07360261	0.40712503	0.18078626	0.85653535	NA
Zfp574	2009.09865	0.07359635	0.23069312	0.31902273	0.74970928	0.90092221
Wwtr1	5777.61689	0.07358348	0.1944937	0.37833347	0.70518288	0.87969669
Fdxacb1	913.070134	0.07355197	0.21503587	0.34204514	0.73231692	0.891798
Smurf1	2409.64267	0.07349304	0.1904671	0.38585686	0.69960268	0.87759307
Ppp1r14a	286.812485	0.07342809	0.26646923	0.27555934	0.78288654	0.91399508
Mbd3	5922.86751	0.07341086	0.21968784	0.33415988	0.73825892	0.8945646
Sycn	1.99815313	0.07335099	0.23610311	0.31067356	0.7560488	NA
Naa10	4093.42773	0.07331677	0.22131956	0.33127108	0.74043973	0.89565792
Hspe1	14456.4908	0.0733065	0.24930947	0.29403815	0.76872875	0.90715593
Rps6kc1	1004.81996	0.07329124	0.21826771	0.33578598	0.73703226	0.89391803
4631405J19R	0.93193763	0.07322445	0.23118251	0.31673872	0.75144187	NA
Ugt8a	293.41802	0.0732023	0.32353915	0.22625485	0.82100321	0.93076517
Nanog	81469.0355	0.07315966	0.17834593	0.41021213	0.68165035	0.86734737
Tspan10	4.24399382	0.07315428	0.3494294	0.20935352	0.83417227	NA
Pigk	3127.80939	0.07307655	0.18372802	0.39774311	0.69081955	0.87364263
Nup93	16838.7351	0.07297215	0.21666769	0.33679295	0.73627299	0.89375116
Speer7-ps1	1.29424476	0.07296354	0.18562607	0.39306734	0.69426974	NA
Vps11	4744.57617	0.07285545	0.20087221	0.36269552	0.71683235	0.88475711
Heatr3	7957.49631	0.0728169	0.24518213	0.29699106	0.76647334	0.90621355
Mapk1ip1l	7517.73182	0.0727646	0.23371728	0.31133596	0.75554523	0.90203956
Emc1	4062.57844	0.07270492	0.20001817	0.36349159	0.71623769	0.88475132
Plod1	2092.16353	0.07253579	0.25706517	0.28216887	0.77781402	0.91206348
Zfp664	6998.1538	0.07251934	0.19110542	0.37947295	0.70433669	0.87942876
Dhx37	3318.84046	0.07249213	0.21192379	0.34206696	0.7323005	0.891798
5430405H02I	61.538763	0.07243658	0.34282714	0.21129184	0.83265955	0.93498494
Gm853	16.6524819	0.07243388	0.40120162	0.18054235	0.85672681	0.9449577
Uba1y	1636.87947	0.07242599	0.21167708	0.34215322	0.73223559	0.891798
D11Wsu47e	2428.17312	0.07242042	0.20800818	0.34816139	0.72771898	0.88986097
Rbm42	4863.16312	0.07237101	0.22749958	0.3181149	0.75039778	0.90095125
Mrpl14	1424.34653	0.07225998	0.21675931	0.33336505	0.73885874	0.8948635

Dennd2d	37.20908	0.07222126	0.43028257	0.16784611	0.86670435	0.94861203
Gsdmc	1.05127744	0.07219385	0.20705617	0.34866793	0.72733862	NA
Tmem132e	1.05127744	0.07219385	0.20705617	0.34866793	0.72733862	NA
lqcf3	1.49111848	0.07211828	0.19185077	0.37590819	0.70698515	NA
Rnf40	6854.61524	0.07204389	0.20026781	0.35973775	0.71904326	0.88576059
LOC171588	1.42919777	0.07204313	0.25423711	0.28336985	0.77689334	NA
Bcar1	1682.96503	0.07200575	0.22892876	0.31453341	0.75311594	0.90191816
Chd7	2777.80505	0.07192978	0.23838024	0.30174389	0.76284731	0.90517207
Tubb6	4313.29986	0.07181815	0.20266779	0.35436391	0.72306618	0.88765129
Strip1	2977.80456	0.07169968	0.20494461	0.34984908	0.72645196	0.88950597
Zc3hav1	5185.82495	0.07165478	0.21281113	0.33670596	0.73633857	0.89375594
1700042O10I	244.873118	0.0715641	0.35096323	0.20390768	0.83842565	0.93801131
Dnlz	942.359587	0.07155884	0.25197333	0.28399371	0.7764152	0.91097274
Spr2b	4.54552737	0.07151783	0.23764244	0.30094721	0.76345475	NA
Usp49	3114.03675	0.071497	0.18040194	0.39632057	0.69186855	0.87409602
Ankrd54	1133.99251	0.0714805	0.21691746	0.32952858	0.7417562	0.89662267
1110001J03R	984.433474	0.07145769	0.25041423	0.28535796	0.77536991	0.91030389
Zyx	236.501544	0.07135918	0.30929418	0.23071621	0.81753528	0.93024054
Hadh	11140.4584	0.0712647	0.18807002	0.37892643	0.70474249	0.87942876
Polr2f	5056.70208	0.07116765	0.22761496	0.31266686	0.75453378	0.90191816
Snora34	3.09461977	0.0711323	0.37086917	0.19179889	0.84789974	NA
Ovol2	242.928432	0.07112478	0.23282112	0.30549112	0.75999214	0.90409661
Scn9a	1.13485109	0.0710559	0.21313652	0.3333821	0.73884588	NA
Mir450b	0.9193878	0.0709929	0.23050496	0.3079886	0.758091	NA
Tas1r2	0.9193878	0.0709929	0.23050496	0.3079886	0.758091	NA
Speer8-ps1	1.7914665	0.07093799	0.27364415	0.25923443	0.79545437	NA
Elmod3	667.447828	0.07055273	0.22931135	0.30767221	0.75833177	0.90307174
Uty	1539.06255	0.0705051	0.21253863	0.33172842	0.74009434	0.89544909
Frmd7	1.3339662	0.07046064	0.27887029	0.25266455	0.80052744	NA
Mafk	397.307623	0.07022822	0.24573787	0.2857851	0.77504272	0.91029675
Phkb	2809.69635	0.07020471	0.19886442	0.35302798	0.72406746	0.88829071
Smarcc2	2747.3426	0.07014253	0.1964985	0.35696218	0.72112012	0.88656328
Ppox	1421.94615	0.07012681	0.23031622	0.30448057	0.7607618	0.90435844
1700019B03F	2.16348784	0.07002506	0.30304461	0.2310718	0.81725902	NA
Nova2	593.274047	0.07001917	0.36260991	0.1930978	0.84688238	0.94147896
Zfy2	16.4036487	0.06999541	0.35088924	0.19948006	0.84188724	0.93972068
Jade1	28503.0089	0.06986549	0.20169108	0.34639849	0.72904326	0.89032067
Mir1249	3.65410482	0.0698044	0.38337509	0.1820786	0.85552104	NA
Ctnnd1	18169.477	0.06972053	0.19668717	0.35447424	0.72298351	0.88765129
Trub2	3761.40281	0.0697139	0.18129799	0.38452662	0.70058817	0.87785127
Tfg	6242.37955	0.06964977	0.15530831	0.44846132	0.65382029	0.85148307

Fam222a	383.525819	0.06960272	0.27279688	0.25514484	0.79861124	0.92171351
Grrp1	102.202021	0.06957718	0.30542097	0.22780747	0.81979592	0.93051161
Brpf3	6936.44194	0.06944779	0.21086674	0.32934445	0.74189535	0.89665148
Ccdc6	5589.04342	0.06940904	0.20050789	0.34616615	0.72921785	0.89032479
Hsf3	29.2693873	0.06928853	0.43107075	0.16073586	0.87230144	0.95107339
Prkx	1033.9076	0.0692619	0.26121885	0.26514894	0.79089473	0.91829081
Suv39h1	910.962108	0.06918607	0.18910273	0.36586502	0.7144658	0.88425449
Ubr1	3985.42529	0.06917543	0.21447673	0.32253118	0.74705032	0.89975744
Ckb	51406.0608	0.06912355	0.27880655	0.24792655	0.80419123	0.92388669
Fam160b2	1415.84995	0.06908938	0.2312472	0.29876849	0.7651167	0.90610594
Cdk4	36053.7927	0.06904359	0.17821804	0.38741081	0.69845211	0.87699868
Strada	3272.16707	0.06899439	0.18755765	0.36785696	0.71297989	0.88397496
Gm4566	0.96833037	0.06895598	0.23046257	0.29920685	0.76478222	NA
Fgf14	0.96833037	0.06895598	0.23046257	0.29920685	0.76478222	NA
4930430J02R	0.96833037	0.06895598	0.23046257	0.29920685	0.76478222	NA
Tmc7	1754.27575	0.068929	0.357445	0.19283805	0.84708581	0.94147896
Trim12a	335.296642	0.06881432	0.23037138	0.29871037	0.76516105	0.90610594
Rab3il1	413.83046	0.06874786	0.37725844	0.18223014	0.85540212	0.94458789
Unc45b	34.3720183	0.06874766	0.43177997	0.1592192	0.87349618	0.95171748
Snx9	1754.5837	0.0687176	0.27866352	0.24659705	0.80522009	0.92440408
Farsa	6933.21877	0.06865246	0.2463624	0.27866451	0.7805023	0.91308099
Mir682	56.6496925	0.06860799	0.35478381	0.19337971	0.8466616	0.94147896
Gm15816	22.6141834	0.06841673	0.42986817	0.15915748	0.87354481	0.95171748
Plscr4	5.73512181	0.06840845	0.40563808	0.16864406	0.86607662	NA
Mir6913	6.51310108	0.0683805	0.38744821	0.17648941	0.85990947	0.9455234
lqcf1	2.43589401	0.06837594	0.29292489	0.23342481	0.81543155	NA
Tmem9	2124.84748	0.06837325	0.19490369	0.35080533	0.7257344	0.88928462
Tgif1	8924.24424	0.06820872	0.16638256	0.40995115	0.68184178	0.86734737
Higd2a	3750.95446	0.06804736	0.19981912	0.34054479	0.7334463	0.892514
E130308A19f	1231.1646	0.06785264	0.20373194	0.33304862	0.73909758	0.89494387
Fitm1	15.2366901	0.0678088	0.43131819	0.15721294	0.87507703	0.95249688
Serpini1	367.864819	0.06768958	0.20982975	0.32259287	0.7470036	0.89975744
Tmem53	60.0841771	0.0675877	0.34049224	0.19849997	0.84265391	0.9401041
Phlpp2	1483.23929	0.0673932	0.28485821	0.23658506	0.81297871	0.92878688
Pdhb	11792.7472	0.06733057	0.21576472	0.31205551	0.75499833	0.90191816
Psmb4	16334.2075	0.06731332	0.19625706	0.34298546	0.7316094	0.89154993
Drp2	122.487466	0.06731317	0.28279586	0.23802741	0.81185983	0.92853073
Apmap	1494.15689	0.06730234	0.15353356	0.43835588	0.66112832	0.85541281
Rab6a	10814.6434	0.06727723	0.19660162	0.34220078	0.7321998	0.891798
Nub1	8683.68103	0.06726895	0.16612735	0.40492399	0.68553338	0.86997957
Gm16291	0.9486248	0.06706047	0.23185446	0.28923517	0.77240142	NA

Dkk2	1.33840726	0.06698485	0.18656914	0.35903501	0.7195689	NA
Galt	1897.84678	0.06692618	0.1870097	0.35787545	0.72043652	0.88638309
Tubb2a-ps2	17.673958	0.06687262	0.42085162	0.15889832	0.87374898	0.95171748
Rac1	8692.36358	0.06687216	0.15552435	0.42997874	0.66721111	0.85915695
St6gal1	525.266225	0.06682499	0.25339774	0.26371582	0.79199891	0.91885818
Cyfip1	13498.0268	0.06677159	0.17901281	0.37299892	0.70914925	0.88153317
Mrto4	5101.9515	0.06672232	0.17299089	0.38569849	0.69971998	0.87766942
Gm16998	0.63996664	0.06671385	0.17969148	0.37126887	0.71043728	NA
Ap3d1	8946.40907	0.06664188	0.21942974	0.30370488	0.76135274	0.90466935
Ak6	2230.43834	0.06662826	0.18641406	0.35742078	0.72077682	0.88656176
Sf3b5	6604.99494	0.06658624	0.21827356	0.30505864	0.76032149	0.90431969
Foxo4	2708.54743	0.06656054	0.19587927	0.33980392	0.73400419	0.89252476
Cacng6	74.6555244	0.06640175	0.42258601	0.15713191	0.87514089	0.95249972
Tmem40	1167.5644	0.06640095	0.31763437	0.20904838	0.83441047	0.93601076
9430076C15F	0.64712238	0.06636023	0.17840534	0.37196323	0.70992022	NA
Slamf7	0.64712238	0.06636023	0.17840534	0.37196323	0.70992022	NA
Defb47	0.64712238	0.06636023	0.17840534	0.37196323	0.70992022	NA
4930402K13F	0.64712238	0.06636023	0.17840534	0.37196323	0.70992022	NA
Tle1	2315.96626	0.06635257	0.20762911	0.31957255	0.74929238	0.90084943
Cd101	11.4539019	0.06634732	0.43226633	0.15348714	0.87801413	0.95329223
Mfn1	14309.9905	0.0662584	0.24517463	0.27024982	0.78696807	0.9162057
9130204L05F	6.56892749	0.06617087	0.27596047	0.23978389	0.8104978	0.9275573
Chrn2	46.1370037	0.06612282	0.35366243	0.18696591	0.85168736	0.94375019
Surf1	1671.06296	0.06609012	0.19416878	0.3403746	0.73357445	0.892514
Mir1905	1.25076994	0.06605134	0.24998667	0.26421945	0.79161083	NA
Gm12830	1.25076994	0.06605134	0.24998667	0.26421945	0.79161083	NA
Arhgap42	1785.67673	0.06604472	0.23047619	0.28655767	0.77445103	0.9100414
Sim1	4.01020923	0.066016	0.38571432	0.17115258	0.8641038	NA
Tbc1d7	673.284352	0.06587542	0.2419463	0.27227291	0.78541218	0.91545082
Ets2	3304.99134	0.06577674	0.20014481	0.32864572	0.74242348	0.8969825
Ccdc103	37.9238944	0.06569649	0.41944417	0.15662749	0.87553844	0.95264507
Ttll1	905.337345	0.0656357	0.22504374	0.29165751	0.7705485	0.90826951
Kctd5	6129.97105	0.06562054	0.15794735	0.41545835	0.6778064	0.86555439
1600002H07I	2179.72551	0.06561988	0.1830337	0.35851255	0.71995978	0.88604736
Hist1h4h	8.56144758	0.06561066	0.42699407	0.15365708	0.87788013	0.95329223
Il13	0.6328109	0.06559435	0.17907917	0.36628685	0.71415104	NA
Mir7230	0.6328109	0.06559435	0.17907917	0.36628685	0.71415104	NA
AA986860	167.496149	0.06552183	0.42870648	0.1528361	0.87852752	0.95344975
Dynlrb1	4065.87493	0.0654511	0.19394474	0.33747296	0.73576039	0.89354236
lqsec1	2393.79271	0.06543434	0.20284231	0.32258725	0.74700785	0.89975744
Ppp5c	6747.834	0.06541603	0.19071494	0.34300424	0.73159527	0.89154993

Zscan25	870.459958	0.06540614	0.18943641	0.34526702	0.72989364	0.89059051
Emc3	3141.27783	0.0653731	0.17211381	0.37982482	0.70407546	0.87942876
4933408J17R	0.94686315	0.06531429	0.22937674	0.28474678	0.77583814	NA
Sec24b	2811.70447	0.06519156	0.21605603	0.30173451	0.76285446	0.90517207
Uqcc1	3238.10667	0.06518118	0.15403793	0.42315022	0.67218566	0.86225846
Mdm2	10537.6756	0.06517998	0.19224	0.33905525	0.73456811	0.89293119
Cnm3	1785.69049	0.06510292	0.20860931	0.31208062	0.75497925	0.90191816
Lyp1a1	1273.68895	0.06501774	0.24323446	0.2673048	0.78923449	0.91766475
Smpd4	8773.30804	0.06493137	0.20246121	0.32071015	0.74843006	0.900659
4930511M06	3.12336732	0.0648597	0.37394775	0.1734459	0.86230095	NA
1700012D01I	14.7984089	0.06475896	0.43182274	0.14996654	0.88079101	0.9545784
Mir341	0.98765855	0.06475058	0.23124951	0.28000311	0.77947512	NA
Sds	0.62741681	0.06472683	0.17861166	0.3623886	0.71706165	NA
Frmpd4	0.62741681	0.06472683	0.17861166	0.3623886	0.71706165	NA
Kel	0.62741681	0.06472683	0.17861166	0.3623886	0.71706165	NA
Prrxl1	0.62741681	0.06472683	0.17861166	0.3623886	0.71706165	NA
Unc13b	3436.5011	0.06464499	0.22950747	0.28166835	0.77819783	0.91216552
Pabpn1	22817.4175	0.06463469	0.18471205	0.34992135	0.72639772	0.88950597
Nid1	42561.059	0.0645666	0.19171321	0.33678742	0.73627716	0.89375116
Top1	14920.32	0.06455548	0.23881269	0.27031847	0.78691526	0.9162057
Tmigd1	0.93431332	0.06455334	0.23110058	0.27933006	0.77999154	NA
Mir7022	0.93431332	0.06455334	0.23110058	0.27933006	0.77999154	NA
Adat3	389.234782	0.06450937	0.25700149	0.25100775	0.80180812	0.92325551
Grin2b	2.73996311	0.06448454	0.2903308	0.22210713	0.82423049	NA
Triap1	1965.54652	0.0644527	0.17734941	0.36342213	0.71628957	0.88475132
S100a16	116.703174	0.06444354	0.36595547	0.17609666	0.860218	0.9455234
Dos	581.355839	0.06438162	0.23073223	0.27903176	0.78022045	0.91308099
Nxn12	3.78562962	0.06423258	0.37429886	0.17160773	0.86374593	NA
Sphk1	68.8329621	0.06419954	0.36237004	0.17716571	0.85937823	0.9455234
1700031F05F	0.62565515	0.06419379	0.17809161	0.36045377	0.71850782	NA
Wt1os	0.62565515	0.06419379	0.17809161	0.36045377	0.71850782	NA
Gm4952	0.62565515	0.06419379	0.17809161	0.36045377	0.71850782	NA
Zbtb17	2620.57819	0.06418332	0.19303604	0.33249396	0.7395163	0.89516758
1700094J05R	1.09543995	0.06418098	0.20860579	0.30766636	0.75833622	NA
Bglap	0.98325588	0.06415632	0.23339232	0.27488618	0.78340369	NA
Mir302b	0.98325588	0.06415632	0.23339232	0.27488618	0.78340369	NA
Wfikkn1	38.9216172	0.06414888	0.38753456	0.16553074	0.86852626	0.9493136
Tox2	1.33358882	0.06410701	0.28207375	0.22727039	0.82021349	NA
Comt	2038.59179	0.06400291	0.2192015	0.29198208	0.77030032	0.90826254
Ror2	2162.87388	0.06389729	0.2778745	0.22995016	0.8181305	0.93032296
Gm15800	2765.35693	0.06386685	0.24554958	0.26009757	0.79478851	0.91980692

Tmem107	992.662738	0.06384016	0.22825614	0.27968649	0.77971804	0.91291939
Atrn	2124.01018	0.06380554	0.21452439	0.2974279	0.76613985	0.90618168
Sptssa	2142.85501	0.06373904	0.15125316	0.42140636	0.67345838	0.86321737
Efcc1	20.4684851	0.06369106	0.41530388	0.15336013	0.87811428	0.95329223
Plau	19.357599	0.06367015	0.43226563	0.14729403	0.88289994	0.95554672
Sox17	56.8654898	0.06349365	0.42294808	0.15012162	0.88066866	0.95457436
1700124L16F	15.015883	0.06346807	0.43216468	0.14686085	0.88324186	0.95568774
Pthr1	344.720373	0.06343638	0.23943787	0.2649388	0.79105661	0.91829081
Kdm1a	21617.8178	0.06336023	0.1978835	0.32018953	0.74882466	0.9007559
Slc25a47	78.6241859	0.06331973	0.3192411	0.19834455	0.8427755	0.9401723
Prf1	1.59945327	0.06319054	0.29262948	0.21594045	0.82903417	NA
Actr1b	5217.22256	0.063118	0.1979989	0.31877952	0.74989371	0.90092664
Syce1	1043.04099	0.0631104	0.2120069	0.29768086	0.76594675	0.90618168
Rnf149	3349.1819	0.06305646	0.1839705	0.34275309	0.73178422	0.89163805
Gm1141	36.5214289	0.06298325	0.41103325	0.15323151	0.87821571	0.95329223
Rnf169	3399.51152	0.06298277	0.23268016	0.2706839	0.78663416	0.91606931
Zfand5	4384.35989	0.06296214	0.19770348	0.31846755	0.7501303	0.90092664
Tbrg4	7721.1243	0.06292513	0.21814402	0.28845682	0.77299708	0.90963886
Mir1934	1.23106437	0.06287123	0.24927164	0.25221976	0.80087121	NA
1700119H24I	0.61310532	0.06286022	0.17789834	0.35334913	0.72382672	NA
Gm14635	0.61310532	0.06286022	0.17789834	0.35334913	0.72382672	NA
Ppib	17625.3043	0.06278641	0.18794473	0.3340685	0.73832787	0.8945646
Car11	206.978252	0.06278545	0.36105445	0.17389469	0.86194823	0.94622031
Gtpbp6	1643.29675	0.06272932	0.23589058	0.2659255	0.79029658	0.91812832
Cpt2	1387.39327	0.06271036	0.20323978	0.30855357	0.75766115	0.90307174
Ak8	59.3813345	0.06269598	0.36093711	0.17370334	0.86209861	0.9462518
Topors	10022.6253	0.06263296	0.18586427	0.33698223	0.7361303	0.89371241
Galnt11	2995.405	0.0625657	0.32243155	0.19404336	0.84614193	0.94147896
Ufm1	2480.34526	0.0625406	0.18359824	0.34063835	0.73337585	0.892514
Noa1	1667.89457	0.06251732	0.19456835	0.32131288	0.7479733	0.90056773
Gm8234	1.91289149	0.06250414	0.31421653	0.1989206	0.84232486	NA
2610020H08I	803.901625	0.06249358	0.23363648	0.26748211	0.78909798	0.9176148
Itih2	1.58150936	0.0624134	0.29746149	0.20982009	0.83380809	NA
Pex12	1201.31354	0.06231028	0.22191628	0.28078281	0.77887699	0.9124802
Snx12	2428.1722	0.06226666	0.16185524	0.38470588	0.70045534	0.87785127
Afap1l2	369.951993	0.06226556	0.30869948	0.20170285	0.84014903	0.93906114
Fam71e2	0.60771124	0.06226373	0.17781176	0.35016656	0.7262137	NA
4930509K18F	0.60771124	0.06226373	0.17781176	0.35016656	0.7262137	NA
Pou3f2	29.9843581	0.06219555	0.4139841	0.15023658	0.88057797	0.95454259
Pdhx	3091.30819	0.06203551	0.17702115	0.35044121	0.7260076	0.88936235
Apol7b	3.29389177	0.0620045	0.30460439	0.20355749	0.83869932	NA

Kif16b	2796.74143	0.06200295	0.1982634	0.31273017	0.75448567	0.90191816
Pcdhac2	5.78294225	0.0619693	0.35657225	0.1737917	0.86202917	NA
Ms4a7	0.66204789	0.06196145	0.18117713	0.34199375	0.7323556	NA
Vmn2r30	0.66204789	0.06196145	0.18117713	0.34199375	0.7323556	NA
Tmem109	963.169617	0.06194654	0.26693061	0.23206981	0.8164838	0.92985634
Pcdhb7	1.02228964	0.06190954	0.23266269	0.26609141	0.79016881	NA
Otoa	1.02228964	0.06190954	0.23266269	0.26609141	0.79016881	NA
Ubr2	4990.6343	0.06185491	0.20560293	0.30084647	0.76353157	0.90535109
Plxnb2	9996.84639	0.06184514	0.26905982	0.22985648	0.8182033	0.93032296
Cpsf4	4880.42165	0.06177688	0.19030906	0.32461345	0.74547365	0.89871411
Fabp4	1.50802005	0.06176218	0.22389903	0.27584837	0.78266453	NA
Scnm1	1844.11872	0.06172471	0.21349351	0.2891175	0.77249146	0.90959451
Mrpl4	3722.36496	0.0616844	0.19702605	0.3130774	0.75422186	0.90191816
Foxo3	2274.35794	0.06168137	0.28171396	0.21895034	0.82668873	0.93181174
Sf1	20043.2494	0.06158761	0.20292591	0.30349799	0.76151038	0.90466935
2700086A05f	0.6005555	0.06149218	0.17769965	0.34604558	0.72930846	NA
4930483O08l	0.6005555	0.06149218	0.17769965	0.34604558	0.72930846	NA
Spp2	0.6005555	0.06149218	0.17769965	0.34604558	0.72930846	NA
Sorcs1	0.6005555	0.06149218	0.17769965	0.34604558	0.72930846	NA
Cldn22	0.6005555	0.06149218	0.17769965	0.34604558	0.72930846	NA
Cacng2	0.6005555	0.06149218	0.17769965	0.34604558	0.72930846	NA
Spata5l1	231.51288	0.061471	0.31654301	0.19419478	0.84602337	0.94147896
Otos	2.50802421	0.06146693	0.28344146	0.21685935	0.82831796	NA
Arpc4	6498.50689	0.06129226	0.18780221	0.32636604	0.74414743	0.89795494
Nkain1	4595.93844	0.06116514	0.24714189	0.24748998	0.80452905	0.92394305
Mageh1	574.77786	0.06114204	0.21222728	0.28809697	0.77327252	0.90982529
Gtsf1l	3579.69064	0.06110465	0.23443462	0.26064688	0.79436484	0.91975523
Tmem238	243.289575	0.06109639	0.23398067	0.26111725	0.79400209	0.91975523
Rpe	11504.564	0.06098681	0.30649896	0.19897885	0.84227929	0.93995588
Leap2	0.92176349	0.06091518	0.22805863	0.26710317	0.78938973	NA
Gm10373	0.66920363	0.06088623	0.17873559	0.34064971	0.7333673	NA
Foxb1	0.66920363	0.06088623	0.17873559	0.34064971	0.7333673	NA
Pcnt	12824.6973	0.06087276	0.26675064	0.22820098	0.81949	0.93046822
Xndc1	937.988146	0.06076266	0.19103834	0.31806526	0.75043544	0.90095125
1110008L16F	2785.46218	0.06073989	0.17392235	0.34923565	0.72691241	0.88950684
Cbfb	8632.58422	0.06070788	0.20362004	0.29814294	0.76559407	0.90618168
Wee2	0.96355031	0.0607077	0.23240974	0.26120977	0.79393074	NA
Mir7027	0.96355031	0.0607077	0.23240974	0.26120977	0.79393074	NA
1810022K09F	3320.99943	0.06067749	0.22781932	0.26634039	0.78997707	0.91808784
Ppp1r27	4.02513474	0.06063749	0.38485567	0.15755903	0.87480429	NA
Mthfs	179.177596	0.06062092	0.25483761	0.2378806	0.8119737	0.92859267

Gprc5c	893.87881	0.06058187	0.22596734	0.26810013	0.78862224	0.91726735
Smim19	511.459074	0.06045474	0.26819411	0.22541412	0.82165713	0.93076517
2810403A07f	6178.53953	0.06043123	0.19748551	0.30600337	0.75960208	0.90393112
Gpr89	1339.88432	0.06041421	0.16012227	0.37730049	0.70595031	0.88029104
Tgif2	2935.86143	0.06033842	0.17466381	0.34545464	0.72975261	0.89048829
Add3	4588.5219	0.06025623	0.19763443	0.30488732	0.76045197	0.90431969
Larp7	9149.90264	0.06024951	0.1739741	0.3463131	0.72910742	0.89032067
Lrp12	1283.21373	0.06021783	0.21554154	0.27937924	0.7799538	0.9129892
Setd3	5744.20864	0.06016958	0.14527332	0.41418193	0.67874087	0.86604267
Defb25	0.58800567	0.06008857	0.17749535	0.33853603	0.73495928	NA
Rps19-ps3	41.3672125	0.06008816	0.35876693	0.16748523	0.86698827	0.94870504
Opn4	13.1490313	0.06001433	0.43107694	0.13921954	0.88927667	0.95789578
Gpr149	0.64949806	0.05999592	0.18014963	0.33303381	0.73910876	NA
A230073K19f	1.80917377	0.05995143	0.2316794	0.25876893	0.79581353	NA
Sla2	4.35387586	0.05992349	0.38981523	0.15372281	0.8778283	NA
Taf10	4937.54499	0.05991254	0.20776146	0.28837175	0.77306219	0.90964665
Zfp949	753.582723	0.05986342	0.17352352	0.34498737	0.73010386	0.89067944
Ntrk2	26.1836684	0.0597586	0.40714359	0.14677524	0.88330943	0.95568774
Degs1	8635.00305	0.05970302	0.14551325	0.41029265	0.68159128	0.86734737
Ern1	493.60131	0.05968921	0.30208175	0.19759291	0.84336358	0.94064184
Tmem132a	1185.02665	0.05960698	0.2708542	0.22007034	0.82581637	0.93152509
Grpel1	7938.84679	0.05959053	0.17086736	0.34875315	0.72727464	0.88975993
Rgs9bp	364.054894	0.05957588	0.2906457	0.20497767	0.83758957	0.93751696
F7	7.28847891	0.05952158	0.39768242	0.14967114	0.88102408	0.9546085
Ier3ip1	5087.70932	0.0594624	0.19587437	0.30357416	0.76145234	0.90466935
BC018507	9290.69128	0.05945943	0.23504051	0.25297522	0.80028736	0.92264456
Prdx6b	1.21851454	0.05940943	0.24611016	0.24139365	0.80925004	NA
Pnpla2	1626.99394	0.05932565	0.1696722	0.3496486	0.72660243	0.88950597
Elmsan1	3024.98286	0.05931769	0.27166013	0.21835257	0.82715442	0.93197206
Sec22b	3842.17866	0.05930678	0.17273925	0.34333126	0.73134926	0.89152719
Cops6	11954.1035	0.05928351	0.18382103	0.32250669	0.74706887	0.89975744
Rbbp5	8868.66419	0.0592601	0.19303983	0.30698379	0.75885571	0.90331943
Klhdc2	3206.63923	0.05918411	0.22484915	0.26321698	0.79238335	0.918989
Dap3	9127.8323	0.05915183	0.19031529	0.31080963	0.75594535	0.90213384
Tdh	45838.0644	0.05910282	0.23596844	0.25046919	0.80222453	0.92349342
Hsbp1	5918.13086	0.05908895	0.16652639	0.35483234	0.7227152	0.88757986
Fdx1	1011.00037	0.05903419	0.18935287	0.31176811	0.75521676	0.90191816
Gab1	19454.9513	0.05899403	0.26617594	0.22163549	0.82459766	0.93107393
Ube4b	9748.53916	0.05893591	0.21931765	0.26872398	0.78814209	0.91705183
Ylpm1	4612.20391	0.05892652	0.25656054	0.22967881	0.81834136	0.93032688
Gm11549	4.40396605	0.05885341	0.37204016	0.15819102	0.87430628	NA

Abi3bp	1.53450397	0.05885131	0.22306608	0.26382903	0.79191166	NA
Pogz	6047.39426	0.05869117	0.22507435	0.26076348	0.79427491	0.91975523
1700016L04F	0.64773641	0.05865199	0.17843609	0.32870029	0.74238224	NA
Oaz3	0.64773641	0.05865199	0.17843609	0.32870029	0.74238224	NA
Mir3067	0.64773641	0.05865199	0.17843609	0.32870029	0.74238224	NA
Etohd2	17.6088487	0.05862453	0.42224567	0.13883986	0.8895767	0.95801989
Eif2b2	3460.89553	0.05855749	0.19639654	0.29815946	0.76558146	0.90618168
Prickle3	399.101876	0.05853428	0.28381887	0.20623817	0.83660488	0.93698697
Snord52	177.093464	0.05848056	0.26082863	0.22421065	0.8225934	0.93107393
C1qtnf3	1.45605908	0.05846873	0.22669035	0.25792334	0.79646607	NA
Slc39a9	2800.4168	0.05846772	0.17831533	0.32788948	0.74299523	0.89721376
Galr2	36.8824608	0.05834974	0.39765091	0.1467361	0.88334032	0.95568774
Mrps2	9236.18738	0.05832438	0.17645043	0.3305426	0.74099001	0.89611444
Aldh2	12000.7537	0.05817985	0.21365927	0.27230203	0.78538979	0.91545082
Klhl14	0.68137607	0.05805878	0.182446	0.31822448	0.75031466	NA
Tnfsf18	0.68137607	0.05805878	0.182446	0.31822448	0.75031466	NA
Wdr13	1105.3459	0.05801004	0.19294812	0.30065096	0.76368067	0.90545883
Tm6sf1	229.573771	0.0579613	0.34544335	0.16778816	0.86674994	0.94861203
Ube4a	3869.81737	0.05788194	0.23211674	0.24936564	0.80307796	0.92352256
9530027J09R	21.1089449	0.05785566	0.42162703	0.13722	0.8908569	0.95846933
Cep104	1466.4406	0.0578287	0.21084827	0.27426687	0.78387954	0.91455554
Spcs1	4639.23629	0.05782096	0.18905481	0.30584232	0.7597247	0.9039387
Myl10	0.99003424	0.0577549	0.23356131	0.24727937	0.80469202	NA
Cyp24a1	0.99003424	0.0577549	0.23356131	0.24727937	0.80469202	NA
Clec3a	0.63518658	0.05775225	0.17893993	0.3227466	0.74688716	NA
Lrmp	1169.21456	0.05768587	0.26975289	0.21384708	0.83066631	0.9337556
Ormdl1	1934.87084	0.05766775	0.16331638	0.35310453	0.72401008	0.88829071
Grp	0.9516432	0.05763869	0.20262783	0.28445594	0.77606099	NA
Psm4	14159.6695	0.05763439	0.19482362	0.29582855	0.76736102	0.90649963
Ndufb4	1029.51928	0.0576228	0.25773825	0.22357102	0.82309111	0.93107393
Psm3	15364.8857	0.0575212	0.16103414	0.35719881	0.72094298	0.88656328
Sec61b	4343.42945	0.05741638	0.20053232	0.28631985	0.77463316	0.91018664
Plscr1	2803.34547	0.05740893	0.19892679	0.28859327	0.77289265	0.90962818
Atp5j2	15453.2794	0.0573396	0.21969312	0.26099864	0.79409356	0.91975523
Chek2	6106.80442	0.0573379	0.16416086	0.34927877	0.72688003	0.88950684
Fam78b	18.9457966	0.05732752	0.43223036	0.13263186	0.89448453	0.96024637
Akr1c19	1.30924393	0.05724581	0.24784719	0.2309722	0.8173364	NA
Mir1967	1.30924393	0.05724581	0.24784719	0.2309722	0.8173364	NA
Oas1g	670.167192	0.05723018	0.2818826	0.20302842	0.83911282	0.93837763
Tor1aip2	16326.1342	0.05721911	0.15147243	0.37775261	0.70561438	0.87995263
Cramp1l	2468.31966	0.05718236	0.24785661	0.23070741	0.81754212	0.93024054

Mat2a	25124.2959	0.05709971	0.15558671	0.36699608	0.71362194	0.88418475
Mageb18	3.62085801	0.05702375	0.36525392	0.15612083	0.87593778	NA
Trpm1	5474.74166	0.05698321	0.30064334	0.18953756	0.84967152	0.94277489
Dfnb59	1.44714169	0.05698031	0.22555326	0.25262465	0.80055828	NA
Tpst1	3271.17852	0.05696948	0.16440441	0.3465204	0.72895165	0.89031153
Jade2	827.37051	0.05691986	0.31412908	0.18119894	0.85621143	0.94485835
Gm2011	0.62979249	0.05687829	0.17847512	0.3186903	0.74996137	NA
Hotair	0.62979249	0.05687829	0.17847512	0.3186903	0.74996137	NA
Siglech	0.62979249	0.05687829	0.17847512	0.3186903	0.74996137	NA
Cym	0.62979249	0.05687829	0.17847512	0.3186903	0.74996137	NA
Map3k7	7567.51037	0.05677969	0.20930676	0.271275	0.78617953	0.9157961
Nkx2-2	1.28678529	0.05677076	0.25096094	0.22621353	0.82103535	NA
Nans	5995.45599	0.05676159	0.18992919	0.29885659	0.76504947	0.90610594
Trmt1l	2395.84403	0.05672956	0.25132843	0.22571881	0.82142013	0.93076517
Garem	626.239697	0.05668873	0.28028954	0.2022506	0.83972082	0.93885243
Dennd6b	789.077168	0.05665154	0.20362085	0.27822075	0.78084291	0.91313641
Fkbp1a	15461.7243	0.05659726	0.15972916	0.35433264	0.72308961	0.88765129
Gm10658	178.877158	0.05653166	0.26361988	0.21444386	0.83020094	0.93357834
Ssxb6	0.68853182	0.05643508	0.17900263	0.31527513	0.75255277	NA
Alkbh2	1551.05447	0.05640302	0.19751302	0.28556609	0.77521048	0.91029675
Zmym1	10272.5275	0.05638358	0.1962265	0.28733926	0.77385257	0.9098882
Upf2	6708.7771	0.05636127	0.1768935	0.31861697	0.75001698	0.90092664
Blk	0.98827258	0.05616684	0.23107179	0.24307095	0.80795043	NA
Sema4d	3010.58314	0.05616429	0.22372909	0.25103705	0.80178546	0.92325551
Slitrk2	0.66882625	0.05610428	0.18144738	0.30920412	0.75716626	NA
Immp1l	843.927629	0.05607896	0.24124551	0.23245598	0.81618387	0.92977579
Gbp10	1.55383216	0.05606681	0.22344116	0.25092428	0.80187265	NA
Mmrn2	1777.64617	0.05606551	0.19332375	0.29000837	0.77180984	0.90920497
Mzt2	1114.12353	0.05606471	0.21756655	0.25768994	0.79664621	0.92070321
Gpatch2l	1675.51804	0.05603316	0.1878688	0.29825686	0.76550712	0.90618168
Pgrmc2	3493.64786	0.05595699	0.18422268	0.30374646	0.76132106	0.90466935
Itm2a	1884.57598	0.05595287	0.15587307	0.35896431	0.71962179	0.88592422
Rnf24	1100.4684	0.0558812	0.26296112	0.21250745	0.83171117	0.93433074
H2-M10.2	0.62263675	0.05588033	0.17806219	0.31382478	0.75365413	NA
Sema3g	12.5636922	0.05586481	0.43191725	0.12934146	0.89708747	0.96146636
A930001A20l	0.94624912	0.05582102	0.2005181	0.27838397	0.78071762	NA
Grifin	1.64978011	0.05578136	0.29336164	0.19014538	0.84919521	NA
Tyrp1	1.60599498	0.05574148	0.25855476	0.21558867	0.82930839	NA
Hist1h2bl	1.68705221	0.05562226	0.29536925	0.18831433	0.85063025	NA
Zmat2	10159.2332	0.05547386	0.18404191	0.30141975	0.76309444	0.90522666
Ammeocr1	1140.47148	0.05546421	0.29481109	0.18813476	0.85077101	0.94332734

Taf4a	3265.75279	0.05543546	0.22342108	0.24812098	0.80404081	0.92388669
Aamp	9600.17726	0.05538931	0.18771852	0.29506576	0.76794364	0.90649963
Cdh4	433.966123	0.05534775	0.41929387	0.13200228	0.89498249	0.96038316
Mir7024	0.97572275	0.0552647	0.23285711	0.2373331	0.81239838	NA
1700019N19I	0.97572275	0.0552647	0.23285711	0.2373331	0.81239838	NA
Ddx31	1562.97088	0.05526354	0.18602717	0.29707242	0.76641122	0.90621355
Chordc1	8995.00242	0.05523023	0.15073672	0.36640197	0.71406515	0.88425449
Rragc	3072.80606	0.05518939	0.18226021	0.30280546	0.76203812	0.9048709
Clec14a	5.55306154	0.05512035	0.39733036	0.13872674	0.88966609	NA
Mettl15	536.24739	0.0550862	0.23010246	0.23939856	0.81079655	0.92765576
Hat1	40328.1801	0.05506197	0.15337592	0.3590001	0.71959501	0.88592422
Paip2b	11941.3099	0.05503539	0.15512052	0.35479116	0.72274605	0.88757986
Pla2g6	2594.249	0.05494283	0.19907182	0.27599504	0.78255187	0.91393614
Rpl41	37352.7691	0.05492709	0.24965116	0.22001535	0.8258592	0.93152509
Rnf187	6554.01659	0.05492076	0.16377466	0.33534348	0.737366	0.8940958
Unc119b	5115.82788	0.0548188	0.17573158	0.31194621	0.7550814	0.90191816
Ecsit	2190.00948	0.05480147	0.19959339	0.27456555	0.78365003	0.91442498
Zdhhc3	3248.29818	0.05470816	0.19426397	0.28161765	0.7782367	0.91216552
Hbq1a	3.94030434	0.05453873	0.38425703	0.14193294	0.88713298	NA
Znhit3	2411.49808	0.05450573	0.18730465	0.2910004	0.77105101	0.90875167
Lamc1	45495.4498	0.05442467	0.23970017	0.22705311	0.82038245	0.930536
B230112J18R	1.59643487	0.05441302	0.29389401	0.18514504	0.85311528	NA
D330050G23	1.59643487	0.05441302	0.29389401	0.18514504	0.85311528	NA
Gm14827	4.96721715	0.05440754	0.40594606	0.13402653	0.8933816	NA
4933405D12I	4.6516338	0.05436582	0.40205672	0.13521928	0.8924385	NA
Tmem261	1894.85075	0.05422238	0.18860992	0.28748422	0.77374158	0.9098882
4632428C04F	36.4969171	0.05422057	0.42083305	0.12884104	0.89748343	0.96153958
Dut	19318.1195	0.05416704	0.30587615	0.17708815	0.85943915	0.9455234
Slc25a11	4676.26941	0.05409817	0.16212342	0.33368511	0.73861718	0.89470602
Mlycd	430.341838	0.05409317	0.28070642	0.19270373	0.84719101	0.94147896
Flrt2	656.124429	0.05409247	0.3108552	0.1740118	0.86185619	0.94622031
Szt2	2654.02193	0.05407667	0.24537382	0.22038486	0.82557144	0.93152509
Rnf14	3831.32145	0.05400683	0.16592085	0.32549752	0.74480456	0.89836205
Ggnbp1	396.544901	0.05398867	0.28392534	0.19015094	0.84919085	0.94246124
Pou3f3os	1.58652606	0.05394268	0.29374182	0.18363976	0.85429607	NA
Mir6986	0.65451476	0.05387837	0.18028827	0.29884569	0.76505778	NA
Marcksl1-ps4	0.65451476	0.05387837	0.18028827	0.29884569	0.76505778	NA
Shisa9	0.65451476	0.05387837	0.18028827	0.29884569	0.76505778	NA
Hp	0.65451476	0.05387837	0.18028827	0.29884569	0.76505778	NA
Ivd	2490.30197	0.05381231	0.17765946	0.30289582	0.76196926	0.9048709
H60c	1.92242292	0.05378115	0.31009531	0.17343425	0.86231011	NA

Skap2	6165.74871	0.05370609	0.17104492	0.31398822	0.75352999	0.90191816
Tmem246	26.4808776	0.05369617	0.41997686	0.12785506	0.89826367	0.96162064
Slx4ip	706.438133	0.05363272	0.27410365	0.19566582	0.84487174	0.94132069
Otud3	704.615346	0.05362565	0.22573696	0.23755813	0.81222383	0.92867383
Nop9	5549.36113	0.05356815	0.18309447	0.29257111	0.76985	0.90806564
Dct	3.25811306	0.05346068	0.29291838	0.1825105	0.85518211	NA
Rnf113a1	453.035025	0.05332398	0.23305773	0.22880158	0.81902314	0.93036217
Rn45s	58787.3126	0.05321804	0.23968511	0.22203316	0.82428807	0.93107393
Pabpc1	125449.726	0.05320249	0.19159459	0.2776826	0.78125602	0.91334478
BC021767	34.4538146	0.05317593	0.41427056	0.12836038	0.89786378	0.96161706
1700020M21	0.98803594	0.05317459	0.20010445	0.26573416	0.79044395	NA
Pcnxl3	4162.7772	0.05314191	0.23417313	0.22693426	0.82047486	0.930536
Spsb1	1042.91678	0.05312154	0.33920024	0.15660819	0.87555365	0.95264507
Gpr137b-ps	106.993863	0.05309491	0.31416446	0.16900354	0.86579385	0.94809945
5430419D17I	0.97032867	0.05302985	0.23019747	0.23036678	0.81780677	NA
Proc	57.3171009	0.05300685	0.35902964	0.14763919	0.88262752	0.95554672
Ercc3	4366.14148	0.05293522	0.1943503	0.27237014	0.78533743	0.91545082
Tatdn1	702.96743	0.05291255	0.2107141	0.25111064	0.80172857	0.92325551
Kpna6	11626.9699	0.05288379	0.16306465	0.32431182	0.74570198	0.89887694
Kmt2b	9128.86356	0.05282569	0.23841537	0.22157	0.82464864	0.93107393
Slc27a1	1631.54677	0.05278538	0.19176565	0.27525984	0.78311662	0.91408074
Mtrf1l	660.286634	0.05276655	0.23912085	0.22066896	0.82535021	0.93152509
Fig4	10392.0218	0.05267375	0.22162465	0.23767098	0.81213629	0.92864202
Grm6	1.93737712	0.05266224	0.26698528	0.19724772	0.84363369	NA
Pdia4	18104.3556	0.0526372	0.17629655	0.29857192	0.76526669	0.90610594
Alg12	695.348834	0.05255725	0.189548	0.27727671	0.78156764	0.91337854
Cnnm4	386.898951	0.05255386	0.2814397	0.18673221	0.8518706	0.94377272
9430091E24F	13.8451889	0.05254301	0.43068222	0.12199947	0.90289943	0.96309686
4931406C07F	1669.52937	0.05253189	0.16494717	0.31847703	0.75012311	0.90092664
Rhbdl2	84.0520988	0.05239699	0.36010446	0.14550497	0.88431219	0.95575952
Crybb1	1.00220668	0.05236883	0.23398236	0.22381531	0.82290102	NA
Susd1	1933.14798	0.05233837	0.3615015	0.14478051	0.88488417	0.95578308
Echdc2	8792.46155	0.05232369	0.28930637	0.18085911	0.85647817	0.9448845
Snord15b	55.6640803	0.0523056	0.36922946	0.1416615	0.88734739	0.95687535
Aldh4a1	3845.0058	0.05226651	0.2005112	0.26066628	0.79434987	0.91975523
Slx4	2726.64228	0.05222954	0.21415897	0.24388208	0.80732215	0.9258757
Ern2	2.23409948	0.05214905	0.32633797	0.15980075	0.87303803	NA
Trappc3l	0.91223206	0.05210901	0.20041536	0.26000507	0.79485986	NA
Scyl3	1940.4665	0.05207385	0.16644416	0.31286076	0.75438645	0.90191816
Polr1a	12431.6893	0.05206414	0.23152981	0.22487015	0.82208029	0.93084102
Slc6a4	2.88393654	0.05203971	0.36731909	0.1416744	0.8873372	NA

Rc3h1	2638.89393	0.05203142	0.22358656	0.23271263	0.81598456	0.92967334
Mir7666	2.26835318	0.05201406	0.35189586	0.14781096	0.88249196	NA
Coro1c	12951.8764	0.05194096	0.2000086	0.25969364	0.7951001	0.91998524
Sowahd	0.64196493	0.05188133	0.17923896	0.28945343	0.77223441	NA
Klhdc7b	0.64196493	0.05188133	0.17923896	0.28945343	0.77223441	NA
Tshb	0.64196493	0.05188133	0.17923896	0.28945343	0.77223441	NA
Rabgap1l	1209.55019	0.05181057	0.26640386	0.19448132	0.84579902	0.94147896
Clca3	5.16870253	0.05178154	0.36184716	0.14310335	0.88620856	NA
Trim63	633.601949	0.05169794	0.3053637	0.16929955	0.86556103	0.94808387
Osbp11	3267.27831	0.05168244	0.20234684	0.25541511	0.7984025	0.92164102
Rfx1	1083.9841	0.05166213	0.27454029	0.18817688	0.850738	0.94332734
Upb1	104.676682	0.051577	0.42127585	0.12243047	0.90255811	0.96299699
Bid	5767.24544	0.05148442	0.153334	0.33576652	0.73704694	0.89391803
Hoxb2	5.34664092	0.05145974	0.35503258	0.14494372	0.88475531	NA
Mtx2	4359.85445	0.05138897	0.23204141	0.22146466	0.82473065	0.93107393
Stoml3	1.67009971	0.05135753	0.29506132	0.17405714	0.86182056	NA
BC037032	2.19909101	0.05125321	0.33686924	0.15214572	0.87907201	NA
Ints12	2871.87946	0.05114529	0.15610494	0.32763404	0.74318838	0.89737732
Nt5dc1	1629.65764	0.05111873	0.20077217	0.25461063	0.79902385	0.92171351
Tmcc3	334.809922	0.0511003	0.39026232	0.13093833	0.89582409	0.96083244
Foxg1	94.8056249	0.05107363	0.38368139	0.1331147	0.89410267	0.96010139
Ddc	3301.6849	0.05104672	0.26220591	0.1946818	0.84564206	0.94147896
Zswim3	1776.82266	0.05098593	0.17932248	0.28432539	0.77616103	0.91080372
Clptm1	6674.35823	0.05083291	0.18246734	0.27858633	0.7805623	0.91308099
Fbxl6	2581.56949	0.05083285	0.18722257	0.27151026	0.78599861	0.91579114
Rwdd4a	2722.91563	0.05082238	0.18335118	0.27718599	0.78163729	0.91337854
Ccm2l	3.4639035	0.05072156	0.37840537	0.13404027	0.89337073	NA
Papss1	1275.21266	0.05069169	0.18505651	0.27392548	0.78414189	0.91472437
Prmt1	24952.5818	0.05054432	0.18061005	0.27985332	0.77959004	0.91283825
Fbxl18	827.810034	0.05050937	0.26493492	0.19064821	0.84880122	0.94216329
Bpi	5.9004791	0.0505017	0.40804531	0.12376492	0.90150141	NA
Ddx3y	3582.85244	0.05048	0.20307446	0.24857876	0.80368664	0.92380301
Kdm5d	158.915825	0.05039708	0.23598232	0.21356294	0.8308879	0.93381064
Cobl	13312.6084	0.05035913	0.27871114	0.18068574	0.85661425	0.94490057
Zcrb1	1539.3966	0.05035786	0.22379393	0.2250189	0.82196457	0.93079758
Pvrl2	5579.92366	0.05031676	0.25956914	0.19384724	0.8462955	0.94147896
Rasgrp4	690.600976	0.05029313	0.19450388	0.25857133	0.79596601	0.92057619
Gm6297	62.6480412	0.05022664	0.40489345	0.12404904	0.90127645	0.96269291
Tyw1	3151.10404	0.05021182	0.18026037	0.27855164	0.78058893	0.91308099
Prdx5	2114.53232	0.05002486	0.23089922	0.21665236	0.82847928	0.93256314
Zfp655	7557.33872	0.05000959	0.21757446	0.22985047	0.81820796	0.93032296

Car15	15.0823699	0.04978185	0.42822005	0.11625296	0.90745206	0.96495598
Ttll10	5.92333669	0.04963246	0.42010644	0.11814258	0.90595468	NA
Zbtb18	1862.76647	0.04942722	0.25221207	0.19597483	0.84462987	0.94122816
Gm17455	2.52633581	0.04942469	0.32112228	0.15391238	0.87767883	NA
Zfp933	611.938931	0.04940464	0.23397219	0.21115603	0.83276552	0.93498494
Mir20b	1.31249898	0.04930988	0.24373595	0.20230859	0.83967549	NA
Slc37a3	4730.1662	0.04930161	0.18099405	0.27239354	0.78531944	0.91545082
Fbxw15	2.60237633	0.04925406	0.34834241	0.14139554	0.88755747	NA
Mina	3018.49586	0.04922521	0.20728207	0.23747937	0.81228492	0.9286754
LOC10263508	2.88431393	0.04919231	0.34009973	0.14464082	0.88499446	NA
Plch1	586.323447	0.04916033	0.29712507	0.16545331	0.8685872	0.9493136
Wtip	2895.20844	0.04912016	0.21231602	0.23135402	0.81703979	0.93016422
Man2c1os	10.6179445	0.04895761	0.42680669	0.11470676	0.90867756	0.96528757
Igfbp3	446.087045	0.04894055	0.21066842	0.2323108	0.81629663	0.92977579
Atp9b	2414.99712	0.04875512	0.17076521	0.28550967	0.77525369	0.91029675
Lck	969.361035	0.04863574	0.32975398	0.14749098	0.8827445	0.95554672
Osr2	387.245319	0.04862201	0.4274734	0.11374277	0.90944171	0.96550573
Gphb5	1.32819473	0.04860385	0.25205146	0.19283303	0.84708973	NA
Zkscan6	714.612645	0.04855499	0.17305851	0.28056979	0.77904039	0.91248318
Spink4	2.91141188	0.04849718	0.36715239	0.13209007	0.89491305	NA
Ippk	2306.78047	0.04846669	0.15575829	0.31116603	0.75567441	0.90203956
Tmem255b	2.50778396	0.04844872	0.32298473	0.15000313	0.88076215	NA
BC068281	821.425213	0.04833781	0.21138426	0.22867268	0.81912333	0.93036217
Akr1b10	1036.76899	0.04832196	0.26435833	0.18278961	0.8549631	0.94458789
Nrg2	86.3874709	0.04824016	0.3986087	0.12102134	0.90367414	0.96352667
Pid1	1417.61803	0.04815965	0.2512802	0.19165717	0.84801076	0.94168918
Smyd4	1406.08919	0.04812581	0.20055775	0.23995987	0.81036137	0.9275573
Zkscan3	2187.08322	0.04810577	0.15800214	0.3044628	0.76077533	0.90435844
Cyp2c39	1.76776434	0.04808326	0.19935465	0.24119457	0.80940432	NA
Amer3	1.93697104	0.04795941	0.33037575	0.14516624	0.88457962	NA
Snrpc	3203.61682	0.04794267	0.15273145	0.31390174	0.75359567	0.90191816
Srp72	15781.8218	0.04790782	0.16122514	0.29714857	0.76635308	0.90621355
Prr14	3236.16158	0.04785356	0.20272389	0.23605291	0.81339162	0.92878688
Kcna1	2.87854245	0.04776342	0.35794958	0.13343615	0.89384845	NA
Gm4926	0.98864997	0.04775678	0.20233507	0.23602821	0.81341078	NA
Mtus2	1414.17327	0.04773155	0.19096834	0.24994484	0.80263	0.92349559
Cbx8	294.384555	0.04762928	0.29687127	0.1604375	0.87253645	0.95119624
Dgcr8	5473.87884	0.0475544	0.18238439	0.26073721	0.79429517	0.91975523
Prps1l3	7392.55289	0.04751036	0.19202077	0.24742303	0.80458085	0.92394305
Ccnj	755.553251	0.04749821	0.24486893	0.19397404	0.84619621	0.94147896
Olfir221	1.57699463	0.04748825	0.26246898	0.18092901	0.8564233	NA

Celrr	2.66298937	0.04742932	0.34059711	0.13925345	0.88924987	NA
Msh6	63973.5923	0.04739161	0.17027081	0.2783308	0.78075843	0.9131063
Robo2	4.4688758	0.04723235	0.3487485	0.13543385	0.89226886	NA
lqce	775.516694	0.04720056	0.18913103	0.24956541	0.80292345	0.92352256
Crygs	4.41648719	0.04710678	0.38677785	0.12179287	0.90306306	NA
Vapa	13072.9402	0.04709717	0.17560416	0.2682008	0.78854476	0.91724584
Nog	22.7842792	0.04705203	0.42844687	0.10981999	0.91255214	0.96715571
Figl	36.7980745	0.04688452	0.41674663	0.11250125	0.91042598	0.96602309
Rnf146	2365.55907	0.04687414	0.16310134	0.28739275	0.77381161	0.9098882
Cnot3	6377.49965	0.04678631	0.2087003	0.22417939	0.82261772	0.93107393
Maneal	795.267865	0.04673304	0.20946309	0.22310871	0.8234509	0.93107393
Rcbtb1	5596.70068	0.04663296	0.23416768	0.19914344	0.84215054	0.93987965
Mad1l1	3056.76201	0.04653344	0.18643464	0.2495965	0.8028994	0.92352256
Elovl2	696.933419	0.04650389	0.25288353	0.1838945	0.85409622	0.94431772
Utp23	1669.57648	0.04646958	0.17883413	0.25984739	0.79498149	0.91991645
Tirap	1186.68101	0.04638017	0.2365658	0.1960561	0.84456626	0.94122473
Gm10814	3.39035072	0.04635949	0.3677882	0.12604943	0.8996928	NA
Peg3os	1.02944538	0.04615549	0.20170684	0.22882461	0.81900523	NA
Mrps16	4034.2477	0.04615265	0.23815289	0.19379421	0.84633702	0.94147896
Rundc3a	1433.44032	0.04612295	0.28850963	0.15986622	0.87298646	0.9515534
Ccdc148	2.11742586	0.04611557	0.28027997	0.16453394	0.86931083	NA
Gm1720	4.68049341	0.04610863	0.40338522	0.11430422	0.90899664	NA
D1Ert622e	464.388052	0.04603788	0.25471204	0.18074481	0.85656789	0.94490057
Snord66	4.16818926	0.04597938	0.39617716	0.11605762	0.90760687	NA
Htra3	29.5573103	0.04588393	0.43180468	0.10626085	0.91537539	0.96836839
D030047H15	8.88360902	0.04567919	0.40695278	0.11224689	0.91062765	0.96610524
4922502N22l	1.63784431	0.04555951	0.29451606	0.15469279	0.87706351	NA
Asb4	30.7464529	0.04547345	0.42126507	0.10794498	0.91403934	0.96800942
Prr16	1.30848916	0.04544082	0.25142496	0.18073315	0.85657704	NA
Arhgap23	1909.03101	0.04542368	0.23548079	0.19289761	0.84703916	0.94147896
Colec12	1646.15876	0.04537862	0.38704666	0.11724327	0.90666728	0.9645357
Gm6194	3.17590754	0.04535071	0.3726614	0.12169415	0.90314124	NA
Snx1	6180.36006	0.04529083	0.18260954	0.24802006	0.80411889	0.92388669
Sidt1	3.59950284	0.04523325	0.34701604	0.13034915	0.89629019	NA
Nit2	4935.99729	0.04510247	0.17161765	0.26280786	0.79269868	0.91912147
Fam13c	571.846766	0.04505179	0.26215398	0.17185241	0.86355356	0.94702747
Matk	118.773088	0.04498723	0.37736745	0.11921332	0.90510635	0.96399623
Msl2	4164.25114	0.04489472	0.22221085	0.20203657	0.83988813	0.93897199
Rbms1	2419.31746	0.04489159	0.26985954	0.16635169	0.86788019	0.94911228
Tnfrsf25	58.5479485	0.04482597	0.34829114	0.12870259	0.89759299	0.96153958
Slc16a1	17374.2105	0.04466164	0.19476295	0.22931279	0.81862582	0.93036217

Rnaset2b	34.1594741	0.0446613	0.42773912	0.10441249	0.91684201	0.96879329
Abi1	5916.82648	0.04454096	0.19838461	0.22451822	0.82235409	0.93101547
2310030A07f	10.9429916	0.04453614	0.42708113	0.10428028	0.91694693	0.96879329
Hdac9	26.6084081	0.04439603	0.42740396	0.1038737	0.91726958	0.96885548
Fgf7	4.83546826	0.04436262	0.39540104	0.11219653	0.91066758	NA
Ino80d	2960.16626	0.04418592	0.24416378	0.18096836	0.85639241	0.9448845
Nrxn2	233.566784	0.04412988	0.31476274	0.14020045	0.88850162	0.95732618
Asap3	1085.75103	0.04408631	0.27407598	0.16085435	0.87220812	0.95107339
Pet112	1495.43956	0.04405044	0.16150255	0.27275382	0.78504246	0.9153312
Nelfcd	4573.85484	0.04403926	0.17531662	0.25119844	0.80166069	0.92325551
Gpr146	131.783793	0.0440102	0.33674828	0.13069167	0.89601922	0.96084712
Cox19	1041.57521	0.04397872	0.19797364	0.2221443	0.82420155	0.93107393
Acot4	7.4179635	0.04397594	0.42741159	0.10288898	0.91805109	0.96891454
Nppc	12.6400016	0.04394431	0.42393946	0.10365705	0.91744151	0.96891454
Cd24a	2795.91344	0.04387922	0.30170926	0.14543543	0.88436709	0.95575952
Cic	8129.65088	0.04384535	0.21847167	0.20069122	0.84094002	0.93940315
Rps4l	23323.863	0.04377562	0.19860415	0.22041646	0.82554683	0.93152509
4933411G11l	3.54808508	0.04368671	0.36970951	0.11816496	0.90593695	NA
Chd3os	236.358568	0.04353656	0.2548816	0.17081091	0.86437245	0.94728217
Ascl4	11.2664124	0.04350139	0.43144657	0.10082684	0.91968792	0.96959357
Gtf2f2	4656.08125	0.04345498	0.19720527	0.22035404	0.82559544	0.93152509
Clu	313.487843	0.04338853	0.38817852	0.11177468	0.91100206	0.96617289
Plekha8	3780.01522	0.04336569	0.19272387	0.22501461	0.82196791	0.93079758
L3mbtl1	34.6112978	0.04336317	0.42288316	0.10254173	0.91832669	0.96904885
H2-T3	160.85538	0.04333061	0.37554388	0.11538095	0.90814318	0.96498357
Rad51c	2153.70214	0.04333054	0.17016204	0.25464279	0.79899901	0.92171351
Gabrb2	8.6391944	0.04325566	0.40743088	0.10616686	0.91544996	0.96836839
Arg1	1.04161782	0.04321574	0.2045623	0.21125957	0.83268473	NA
Hand2	19.5093957	0.04315043	0.42494602	0.10154331	0.91911918	0.96953982
Bcl9l	796.899598	0.04310672	0.36426661	0.11833839	0.90579954	0.96413846
Sytl2	3.15460262	0.04307025	0.36544657	0.11785648	0.90618138	NA
Slc25a53	107.998722	0.0430378	0.29633837	0.14523194	0.88452775	0.95575952
Sspn	6.55811462	0.04303079	0.37130462	0.11589081	0.90773908	0.96495598
2810474O19l	10441.7671	0.04295317	0.17759108	0.2418656	0.8088843	0.92698845
Raly	17155.0572	0.04294067	0.16748686	0.25638235	0.79765562	0.92129698
Smok4a	42.1312043	0.04286028	0.43030569	0.09960426	0.92065851	0.96990703
Trim31	8.56120124	0.04280938	0.42640581	0.10039587	0.92003005	0.96972938
Brd3	6969.29483	0.04279562	0.1844116	0.23206576	0.81648694	0.92985634
Kcne1	4.20880982	0.04278868	0.34561094	0.12380591	0.90146895	NA
Syn1	529.597598	0.04275031	0.24867008	0.17191576	0.86350375	0.94702747
2210408F21F	2.56032418	0.04271574	0.35488455	0.12036518	0.90419387	NA

A330033J07R	0.48297734	0.04271447	0.17492954	0.24418102	0.80709063	NA
4931403E22F	0.48297734	0.04271447	0.17492954	0.24418102	0.80709063	NA
Mir5134	0.48297734	0.04271447	0.17492954	0.24418102	0.80709063	NA
D030018L15F	0.48297734	0.04271447	0.17492954	0.24418102	0.80709063	NA
Gm5082	0.48297734	0.04271447	0.17492954	0.24418102	0.80709063	NA
Map3k7cl	0.48297734	0.04271447	0.17492954	0.24418102	0.80709063	NA
Cyp2c67	0.48297734	0.04271447	0.17492954	0.24418102	0.80709063	NA
Fgb	0.48297734	0.04271447	0.17492954	0.24418102	0.80709063	NA
1700007K09F	2.6755392	0.04270226	0.32044216	0.13326042	0.89398743	NA
Pdcd6	4427.23199	0.04266238	0.18711986	0.22799492	0.81965019	0.93046822
Gm15706	73.1542546	0.04260709	0.36051487	0.11818399	0.90592188	0.96413846
Habp4	675.737316	0.04255734	0.24178202	0.17601532	0.8602819	0.94552575
Tmem263	2109.22763	0.04254471	0.23392783	0.18187108	0.8556839	0.94458789
Smim13	984.351402	0.04246392	0.1736545	0.24453104	0.80681956	0.92559319
Snord32a	103.155335	0.04241897	0.29368223	0.14443831	0.88515436	0.95578308
Asb8	2134.54534	0.04240095	0.19146169	0.22145918	0.82473492	0.93107393
Smpd3	2.51644925	0.04238159	0.25247312	0.16786577	0.86668888	NA
Hist1h2ab	2.64653884	0.04230561	0.35419318	0.11944221	0.90492503	NA
Cerkl	120.895706	0.0422989	0.33266994	0.12714976	0.89882187	0.96168428
Fermt3	691.599162	0.04227542	0.26583454	0.15902909	0.87364596	0.95171748
Akap13	1669.48983	0.04226558	0.26700588	0.15829458	0.87422468	0.95203557
Bbc3	1401.74096	0.04222615	0.1914888	0.22051496	0.82547012	0.93152509
Tnpo2	14559.643	0.04218708	0.21833094	0.1932254	0.84678245	0.94147896
Cog1	2231.61475	0.0421742	0.23817942	0.17706905	0.85945415	0.9455234
Pmfbp1	9.04210744	0.04216155	0.41202545	0.10232753	0.91849671	0.96908478
Ddx55	1341.54725	0.04204111	0.19663381	0.21380409	0.83069983	0.9337556
Ccdc106	205.131785	0.04199324	0.26856505	0.15636151	0.87574808	0.95264675
Slc2a8	1273.33929	0.04197368	0.22112943	0.18981499	0.84945411	0.94268614
Tpt1	72603.4269	0.04176716	0.1711939	0.24397575	0.8072496	0.9258757
Tmbim4	2172.11106	0.0417326	0.19697489	0.21186763	0.8322103	0.93468889
Tbrg1	11427.0594	0.04170949	0.16987271	0.24553381	0.80604314	0.92507578
Jag2	943.184728	0.04162666	0.24902165	0.16716082	0.86724351	0.94875159
Ccdc64b	36.3136861	0.04161	0.43069653	0.09661095	0.92303536	0.97104849
Ugt3a1	0.4758216	0.04160351	0.17476311	0.2380566	0.81183719	NA
Mir6966	0.4758216	0.04160351	0.17476311	0.2380566	0.81183719	NA
1600029I14R	0.4758216	0.04160351	0.17476311	0.2380566	0.81183719	NA
F930015N05I	0.4758216	0.04160351	0.17476311	0.2380566	0.81183719	NA
Acpp	735.400274	0.04148035	0.36953437	0.11225031	0.91062494	0.96610524
Ost4	2794.4839	0.04140273	0.19761599	0.20951103	0.83404933	0.93583223
Mpp1	3599.33539	0.04132034	0.17629444	0.23438254	0.81468801	0.92896417
4930415F15F	0.79702959	0.04127866	0.24535425	0.16824105	0.86639365	NA

Prkag3	4.40582361	0.04127679	0.4047306	0.10198584	0.91876791	NA
Ccz1	6153.1291	0.04119902	0.1713477	0.24044104	0.80998837	0.92748171
Bpifb4	15.3412125	0.04116455	0.42900154	0.09595433	0.92355685	0.971175
Wnt10b	4.38423179	0.04116128	0.38320831	0.10741228	0.91446191	NA
Fbp1	44.4156682	0.04115976	0.4322282	0.09522692	0.92413459	0.9713263
Irf3	2032.15404	0.04113324	0.17962602	0.22899377	0.81887376	0.93036217
Cnot11	5340.31003	0.04111665	0.20400735	0.20154492	0.84027251	0.93906635
Peg13	193.274461	0.04106421	0.38865929	0.10565607	0.91585524	0.9684122
Mir7013	1.29041772	0.04105225	0.21499778	0.19094266	0.84857052	NA
Sparc	30075.1653	0.04103051	0.24777644	0.1655949	0.86847576	0.9493136
Al414108	1422.86617	0.04097251	0.17636268	0.23231963	0.81628977	0.92977579
Unc93a	8.03695811	0.04095447	0.41576445	0.09850402	0.92153208	0.97033375
Vma21	1495.13765	0.04088813	0.18138574	0.22542088	0.82165187	0.93076517
Casc1	26.2384377	0.04080774	0.41614457	0.09806145	0.92188349	0.97043051
Aldoart2	24.9133523	0.04073999	0.39573079	0.10294874	0.91800365	0.96891454
Ace3	2.02935071	0.04072301	0.20564809	0.19802282	0.84302721	NA
Mdh1b	5.83910486	0.04069054	0.40579433	0.10027379	0.92012696	NA
9630033F20F	10477.8127	0.04068333	0.1931213	0.21066204	0.83315099	0.93520508
4632415L05F	527.997397	0.04052116	0.23297606	0.17392845	0.86192169	0.94622031
Rab3ip	1938.82168	0.04051105	0.20212632	0.20042444	0.84114865	0.93940315
4933430H16I	0.46866586	0.04047478	0.17459368	0.23182272	0.81667571	NA
Slc9a3	0.46866586	0.04047478	0.17459368	0.23182272	0.81667571	NA
Defb20	0.46866586	0.04047478	0.17459368	0.23182272	0.81667571	NA
Bpifb9b	0.46866586	0.04047478	0.17459368	0.23182272	0.81667571	NA
Mir5135	0.46866586	0.04047478	0.17459368	0.23182272	0.81667571	NA
Inip	2870.60993	0.04046303	0.1990595	0.20327103	0.83892319	0.93836543
Zfyve27	1956.60553	0.04046046	0.18060108	0.22403224	0.82273221	0.93107393
Col5a1	1453.53429	0.04045797	0.29225365	0.13843443	0.88989709	0.9580332
Nisch	19524.7786	0.04039926	0.2034045	0.19861536	0.84256364	0.94007083
Npdc1	867.355353	0.04034746	0.26244117	0.15373905	0.87781549	0.95329223
Ebf2	7.22576388	0.04030035	0.4274	0.09429187	0.92487731	0.97150501
Sox12	2871.17681	0.04027723	0.21706382	0.18555479	0.85279391	0.94423839
Gm5820	1.01011719	0.04027353	0.18246711	0.22071666	0.82531306	NA
Phkg1	625.008264	0.04026832	0.28266542	0.14245931	0.88671722	0.95661824
Hmgn1	23161.1832	0.04018437	0.18128201	0.22166771	0.82457256	0.93107393
Fis1	3269.22498	0.0401033	0.21027184	0.19072122	0.84874402	0.94216329
Ccdc86	2372.18294	0.03993446	0.25502858	0.15658817	0.87556942	0.95264507
Rnf216	5492.60409	0.03992123	0.20752649	0.19236689	0.84745482	0.94147896
E130311K13F	352.030882	0.03982809	0.30721685	0.12964161	0.89684998	0.96132877
Acp5	1326.38975	0.0398058	0.38429811	0.10358052	0.91750224	0.96891454
Polr2g	6823.76891	0.03973697	0.19572405	0.20302547	0.83911513	0.93837763

Csrp3	1.00936242	0.03966931	0.20492099	0.19358343	0.84650207	NA
Psme2	3789.1881	0.03965674	0.30369172	0.13058223	0.8961058	0.96084712
Fsd1	701.117133	0.03965421	0.23930573	0.1657052	0.86838895	0.9493136
Fndc3a	6377.56092	0.03964917	0.21476753	0.18461435	0.85353153	0.94431772
Dsc1	0.46327177	0.03956882	0.17445752	0.22681065	0.82057098	NA
Gm14858	0.46327177	0.03956882	0.17445752	0.22681065	0.82057098	NA
Atp6v1e2	0.46327177	0.03956882	0.17445752	0.22681065	0.82057098	NA
9630001P10F	0.46327177	0.03956882	0.17445752	0.22681065	0.82057098	NA
Tas2r108	0.46327177	0.03956882	0.17445752	0.22681065	0.82057098	NA
ABO41803	0.46327177	0.03956882	0.17445752	0.22681065	0.82057098	NA
Adarb1	552.983804	0.03956367	0.32006856	0.12360999	0.90162408	0.96270877
Helq	2268.66611	0.03949587	0.16809087	0.23496739	0.81423404	0.92878688
Luc7l3	14186.5356	0.03942723	0.1716657	0.22967446	0.81834475	0.93032688
Gm7694	29.7800961	0.03941985	0.42556596	0.09262924	0.92619811	0.97229279
Ppic	5829.86907	0.03941346	0.23161916	0.17016495	0.86488041	0.94756625
Lrrc72	0.92854184	0.03940889	0.19689876	0.20014797	0.84136486	NA
Galns	460.614738	0.03939402	0.21502424	0.18320735	0.85463532	0.94455253
Cyp2c55	13.4533686	0.03937136	0.43196051	0.09114574	0.92737679	0.97266045
A230072E10F	2.64792311	0.03934277	0.36742967	0.10707566	0.91472896	NA
Gm11985	2.64792311	0.03934277	0.36742967	0.10707566	0.91472896	NA
Tceal8	5717.81244	0.03928382	0.19725734	0.19915012	0.84214531	0.93987965
Rfc3	3115.72698	0.03922221	0.20182992	0.19433296	0.84591518	0.94147896
Srf	2298.6945	0.03921126	0.17811006	0.22015185	0.82575289	0.93152509
Ptpn11	6281.847	0.03920339	0.20419277	0.19199206	0.84774843	0.94155899
Fgf4	23953.0677	0.03905633	0.17583028	0.22212516	0.82421645	0.93107393
Usp4	8309.89085	0.03901705	0.1740892	0.224121	0.82266315	0.93107393
Adh7	2.58894714	0.03898801	0.32715027	0.11917463	0.90513701	NA
Snip1	2568.26403	0.03896784	0.1644814	0.23691337	0.81272399	0.92878688
Drosha	14775.6989	0.03888893	0.19401708	0.20044073	0.84113591	0.93940315
Inf2	542.759713	0.03884166	0.22537995	0.17233856	0.86317137	0.94702747
N4bp2l1	61.9934533	0.03879175	0.42679971	0.09088983	0.92758013	0.97272899
Pcdh18	2.34818234	0.03868857	0.31484296	0.12288212	0.90220044	NA
Psmd7	17085.6869	0.03858085	0.18090456	0.21326632	0.83111924	0.93389781
Tom22	8876.74012	0.03853059	0.17225884	0.22367842	0.82300754	0.93107393
Ccdc64	388.55623	0.03850317	0.24614433	0.15642516	0.8756979	0.95264675
Lrrc7	0.45611603	0.03840608	0.17428248	0.22036685	0.82558546	NA
Ccnb3	0.45611603	0.03840608	0.17428248	0.22036685	0.82558546	NA
Crygf	0.45611603	0.03840608	0.17428248	0.22036685	0.82558546	NA
4930431F12F	0.45611603	0.03840608	0.17428248	0.22036685	0.82558546	NA
D930007P13I	0.45611603	0.03840608	0.17428248	0.22036685	0.82558546	NA
Rap1b	8533.57952	0.03812845	0.18843089	0.20234711	0.83964537	0.93883558

1110028F11F	1.66986306	0.0381076	0.22753185	0.16748249	0.86699042	NA
Zfp157	2940.30554	0.03808538	0.15721045	0.2422573	0.8085808	0.92681383
Exph5	231.309914	0.03804327	0.40857647	0.09311175	0.92581479	0.97207115
Adad2	231.902538	0.03803586	0.37516211	0.10138513	0.91924474	0.96953982
Cenpw	2799.07496	0.03801683	0.22708126	0.1674151	0.86704344	0.94870504
Prmt5	17019.8296	0.03800976	0.19661665	0.19331915	0.84670903	0.94147896
Kank4os	433.277603	0.03790117	0.29012336	0.13063812	0.89606158	0.96084712
2010015L04F	324.525632	0.03788967	0.21436828	0.17675036	0.85970448	0.9455234
Pigc	592.743821	0.03782088	0.21424575	0.17653038	0.85987728	0.9455234
lkbip	2225.71166	0.03756417	0.16648843	0.22562631	0.82149208	0.93076517
Col20a1	121.85402	0.0374709	0.36789294	0.10185273	0.91887357	0.96936455
Cdc42se1	5621.87191	0.03743866	0.18294678	0.20464237	0.83785155	0.93751696
Pfkfb3	1542.13507	0.03736243	0.35193814	0.10616192	0.91545389	0.96836839
Rgs11	116.549841	0.03731741	0.41405595	0.09012648	0.92818671	0.97288637
Ppm1j	698.823	0.03721565	0.23766799	0.15658672	0.87557057	0.95264507
Ykt6	5760.03261	0.03719462	0.1901208	0.19563676	0.84489449	0.94132069
Gm6402	36.0007157	0.03707507	0.38162153	0.0971514	0.92260616	0.97076346
Rnf17	13180.1849	0.03707103	0.29868342	0.1241148	0.90122438	0.96269291
Arhgef40	209.941246	0.03697462	0.34951316	0.10578892	0.91574982	0.96836839
Ywhah	8516.38724	0.03697224	0.16160865	0.2287764	0.81904271	0.93036217
Maf1	2870.39525	0.03693149	0.16793952	0.21990946	0.82594167	0.93155054
Ube2w	2437.54581	0.03688894	0.19129795	0.19283499	0.8470882	0.94147896
Glyr1	12811.2104	0.03685166	0.17542981	0.21006498	0.83361695	0.93545802
6330403A02f	0.5050586	0.03682255	0.17544385	0.20988226	0.83375957	NA
4933401D09l	0.5050586	0.03682255	0.17544385	0.20988226	0.83375957	NA
Il22ra2	0.5050586	0.03682255	0.17544385	0.20988226	0.83375957	NA
Smim18	0.5050586	0.03682255	0.17544385	0.20988226	0.83375957	NA
9230104L09F	0.5050586	0.03682255	0.17544385	0.20988226	0.83375957	NA
Cyp2c40	0.5050586	0.03682255	0.17544385	0.20988226	0.83375957	NA
Cyp2d12	0.5050586	0.03682255	0.17544385	0.20988226	0.83375957	NA
Stxbp3b	0.5050586	0.03682255	0.17544385	0.20988226	0.83375957	NA
Gm11437	0.5050586	0.03682255	0.17544385	0.20988226	0.83375957	NA
Gm19276	0.5050586	0.03682255	0.17544385	0.20988226	0.83375957	NA
Pdss1	2034.75716	0.03682253	0.19641853	0.18746972	0.85129236	0.94351419
Aldh16a1	4725.1027	0.03670117	0.20409356	0.17982523	0.85728977	0.94537748
6-Sep	1576.01351	0.0365741	0.33049601	0.11066428	0.91188257	0.96672055
4933406M09	6.48022197	0.03655551	0.38540362	0.09484994	0.92443402	0.9714195
Cyp2a4	2.65067618	0.0365079	0.36095605	0.10114222	0.91943756	NA
Mknk1	1741.70212	0.03641997	0.19646313	0.18537815	0.85293245	0.94423839
Spock3	2.93690439	0.03640812	0.33209395	0.10963198	0.91270125	NA
Cyp2b19	0.81635778	0.03640101	0.24639765	0.14773276	0.88255368	NA

Mrpl53	1768.14	0.03628334	0.18666595	0.19437577	0.84588166	0.94147896
Mir6927	0.4435662	0.03627477	0.17396083	0.20852262	0.83482092	NA
Lhx1	0.4435662	0.03627477	0.17396083	0.20852262	0.83482092	NA
Mir1901	0.4435662	0.03627477	0.17396083	0.20852262	0.83482092	NA
A830009L08F	0.4435662	0.03627477	0.17396083	0.20852262	0.83482092	NA
A930024E05F	65.9504149	0.03625058	0.40079307	0.09044713	0.9279319	0.9727834
Irx2	435.672425	0.03623305	0.23403728	0.15481741	0.87696526	0.95295135
Pias2	19220.3224	0.03618907	0.15704683	0.23043488	0.81775386	0.93032
Ptdss2	4537.40851	0.0361357	0.20260581	0.17835472	0.85844441	0.9455234
Ndufb9	7898.20269	0.0360788	0.21056645	0.17134163	0.86395515	0.94708632
Fstl3	90.0257948	0.03600123	0.42225796	0.08525886	0.93205559	0.97430464
Lyrn5	1268.21358	0.0359423	0.23722581	0.15151094	0.87957269	0.95385748
Men1	4465.82562	0.03593788	0.21235293	0.16923657	0.86561056	0.94808387
Arl16	515.997007	0.03590835	0.19755411	0.18176465	0.85576743	0.94458789
Tpp2	10839.7633	0.03586014	0.19994662	0.17934859	0.85766399	0.94538792
Rhobtb1	51.4551507	0.03584049	0.42250303	0.08482896	0.93239737	0.97430464
Ralgds	1797.58884	0.03583654	0.23737607	0.15096947	0.8799998	0.95411538
Strn	1389.4793	0.0357871	0.27078476	0.13216069	0.89485719	0.96038316
Klk6	0.49790286	0.03569391	0.17528603	0.20363237	0.83864079	NA
Cts3	0.49790286	0.03569391	0.17528603	0.20363237	0.83864079	NA
Mir6984	0.49790286	0.03569391	0.17528603	0.20363237	0.83864079	NA
Aif1	0.49790286	0.03569391	0.17528603	0.20363237	0.83864079	NA
Tgtp2	0.49790286	0.03569391	0.17528603	0.20363237	0.83864079	NA
BC061194	0.49790286	0.03569391	0.17528603	0.20363237	0.83864079	NA
Erv3	0.49790286	0.03569391	0.17528603	0.20363237	0.83864079	NA
Lrrc71	0.49790286	0.03569391	0.17528603	0.20363237	0.83864079	NA
4930558K02F	0.49790286	0.03569391	0.17528603	0.20363237	0.83864079	NA
Arhgef1	3748.95427	0.03559926	0.23913396	0.14886744	0.88165824	0.95498135
Serpinh1	7479.10141	0.0355988	0.37568671	0.09475661	0.92450816	0.9714195
Elp6	1100.25267	0.03559324	0.21039448	0.16917381	0.86565993	0.94808387
Kdm2a	6757.91543	0.03551714	0.20783587	0.17089032	0.86431001	0.94728217
Fastkd3	2194.26696	0.03538633	0.18367498	0.19265732	0.84722735	0.94147896
Zmat3	8931.73897	0.03531239	0.19311127	0.18286031	0.85490762	0.94458789
Gpr115	6.52759828	0.03526027	0.41983689	0.08398565	0.93306784	0.97467283
Clcn4-2	566.012275	0.03523928	0.20538499	0.17157671	0.86377032	0.94702747
Zfy1	206.998692	0.03501544	0.23118039	0.15146373	0.87960992	0.95385748
Pphln1	3191.96422	0.03492489	0.20340503	0.1717012	0.86367244	0.94702747
Magea5	87.9334357	0.03481078	0.31184474	0.11162855	0.91111794	0.96617906
Nol12	2196.1557	0.03474155	0.22322038	0.1556379	0.87631845	0.9526479
Chchd1	5525.07507	0.03473801	0.22251107	0.15611811	0.87593993	0.95264675
Sirt7	938.710229	0.03469864	0.22252088	0.15593432	0.87608479	0.95264675

Bbip1	934.335516	0.0346691	0.22142336	0.15657382	0.87558073	0.95264507
Dopey1	1732.83607	0.03466292	0.21234555	0.16323829	0.87033082	0.9499905
Abhd17a	2515.64147	0.03460277	0.21967626	0.15751709	0.87483734	0.95243598
Foxi1	0.49074711	0.03454724	0.17512537	0.19727147	0.84361511	NA
5430425K12F	0.49074711	0.03454724	0.17512537	0.19727147	0.84361511	NA
Slfn14	0.49074711	0.03454724	0.17512537	0.19727147	0.84361511	NA
Magt1	6588.57104	0.03451516	0.20978481	0.16452651	0.86931668	0.94941665
Slc39a7	8533.3512	0.0344754	0.19825056	0.17389813	0.86194552	0.94622031
Mrps10	3629.16734	0.03440574	0.22593972	0.15227839	0.87896737	0.95372743
Ifi35	1114.90548	0.03433005	0.36273839	0.09464134	0.92459971	0.9714195
Ppp2r4	7443.626	0.03430427	0.16624781	0.20634418	0.83652207	0.93698697
Map3k3	2825.78599	0.03430184	0.2276515	0.15067697	0.88023054	0.95423249
Fam98c	1178.60285	0.03421618	0.22008586	0.15546741	0.87645285	0.95266081
Ndufaf1	2556.46062	0.03414127	0.19112814	0.17863025	0.85822804	0.9455234
Caprin2	4108.51446	0.03409897	0.20770365	0.16417127	0.86959631	0.949522
1810034E14F	20.0948085	0.03407176	0.41894079	0.08132834	0.93518084	0.97590908
Rrp7a	4201.57632	0.03406367	0.19343869	0.17609544	0.86021896	0.9455234
Rad51	6801.76436	0.03402296	0.17655129	0.19270867	0.84718714	0.94147896
Gm16796	0.80418533	0.03387235	0.21943635	0.15436071	0.87732533	NA
Hes3	0.80418533	0.03387235	0.21943635	0.15436071	0.87732533	NA
Ghsr	19.9492486	0.03385229	0.42827785	0.07904282	0.93699856	0.97680712
Tmem67	500.965906	0.03381718	0.20517242	0.16482322	0.86908313	0.9493616
Bcl2l14	1497.55801	0.03364427	0.21004632	0.16017546	0.87274286	0.95135456
Bspry	312.757325	0.03363419	0.35111951	0.0957913	0.92368633	0.97121339
Creb5	0.48535303	0.03362876	0.17499645	0.19216823	0.84761043	NA
4933400A11f	0.48535303	0.03362876	0.17499645	0.19216823	0.84761043	NA
4930435E12F	0.48535303	0.03362876	0.17499645	0.19216823	0.84761043	NA
Emx2	0.48535303	0.03362876	0.17499645	0.19216823	0.84761043	NA
Egr3	0.48535303	0.03362876	0.17499645	0.19216823	0.84761043	NA
Tspan4	1533.09752	0.03355725	0.22701724	0.14781808	0.88248634	0.95547901
Mir382	2.02456998	0.03349768	0.31086178	0.10775748	0.91418807	NA
Gm266	7.95935847	0.03349579	0.33234296	0.10078681	0.9197197	0.96959357
Brd9	3005.05848	0.03348809	0.15829797	0.21155098	0.83245736	0.934847
Brat1	1411.24512	0.03335648	0.19820865	0.16828975	0.86635534	0.94844716
Phpt1	1612.60799	0.03328176	0.21478547	0.1549535	0.87685798	0.95290135
Gm5069	43.9315612	0.03320144	0.37429096	0.08870491	0.92931643	0.97357854
BC024386	1.09615633	0.03319349	0.26834477	0.12369718	0.90155505	NA
Ano1	101.995406	0.03319094	0.42142815	0.07875824	0.93722492	0.97680712
Gprc5b	928.050411	0.03316207	0.20863388	0.15894862	0.87370935	0.95171748
Pdcd11	12496.0662	0.0331355	0.22328003	0.14840334	0.88202446	0.95517844
Stau2	547.426119	0.03301656	0.28523349	0.11575275	0.9078485	0.96495598

Mir6951	1.13519008	0.03301399	0.26968162	0.1224184	0.90256767	NA
Atp6v1c1	7624.03052	0.03298122	0.17141578	0.19240483	0.84742511	0.94147896
Slc6a3	14.4691277	0.03297033	0.43171308	0.07637093	0.939124	0.97792402
LOC10263333:	9.38828371	0.03281351	0.43082717	0.07616397	0.93928865	0.97802998
Exosc4	1618.97891	0.03276951	0.221233	0.14812216	0.88224636	0.95528569
Gm5512	31.0279389	0.03276342	0.43123717	0.0759754	0.93943867	0.9781207
Vopp1	359.639572	0.03274347	0.37702199	0.08684765	0.93079261	0.97430464
Lrba	3391.79656	0.0326778	0.20656514	0.15819608	0.87430229	0.95205342
Sssca1	1520.12149	0.03262617	0.26205746	0.12450008	0.90091934	0.96269291
2410141K09F	2341.6716	0.03258307	0.40754503	0.07994961	NA	NA
Zar1	1.0866249	0.03255032	0.23843519	0.13651642	0.89141304	NA
Tomm40l	1344.48062	0.03254866	0.22216001	0.14650999	0.8835188	0.95568774
Taf1c	1569.34694	0.0325307	0.26591952	0.12233288	0.9026354	0.96301338
Pan3	2922.25858	0.03245693	0.22166421	0.14642385	0.8835868	0.95568774
Mir1193	0.47819729	0.03244859	0.17483049	0.18560028	0.85275824	NA
Pcdhb5	0.47819729	0.03244859	0.17483049	0.18560028	0.85275824	NA
Defb29	0.47819729	0.03244859	0.17483049	0.18560028	0.85275824	NA
2700081O15l	1893.46068	0.03237551	0.22373542	0.14470445	0.88494423	0.95578308
Tfdp2	6313.40725	0.03235453	0.17132989	0.18884346	0.85021551	0.94285826
Clns1a	9484.31402	0.03230666	0.18229604	0.17722087	0.85933491	0.9455234
Sppl3	4645.19766	0.03229602	0.17220099	0.1875484	0.85123068	0.94351307
Gimap6	0.83606335	0.03221629	0.22124948	0.14561068	0.88422874	NA
Ift172	2690.5321	0.03216633	0.18189638	0.17683876	0.85963504	0.9455234
Ctse	0.52438678	0.03209667	0.17585389	0.18251894	0.85517549	NA
C130080G10l	0.52438678	0.03209667	0.17585389	0.18251894	0.85517549	NA
Mrpl32	2925.67865	0.03199329	0.19187456	0.16674064	0.86757412	0.94897976
Dmp1	3.0526861	0.0319361	0.29377915	0.10870786	0.91343421	NA
Kmt2c	4144.63115	0.03183925	0.2530794	0.12580736	0.89988441	0.96219077
Vamp8	1156.76479	0.03183363	0.32594238	0.09766644	0.92219716	0.97047859
Trp53bp2	2035.94185	0.03183105	0.20009186	0.15908217	0.87360413	0.95171748
Hprt	13783.1844	0.03175179	0.17602954	0.1803776	0.85685614	0.94503332
Med13l	7208.32564	0.03172724	0.2115695	0.14996129	0.88079515	0.9545784
Hook1	3784.29028	0.03156952	0.23170474	0.13624893	0.89162449	0.95883082
Map3k10	1171.13755	0.03151271	0.24655298	0.12781315	0.89829684	0.96162064
Ndufb10	4702.9097	0.03143157	0.203504	0.15445187	0.87725345	0.95317909
Mir181d	2.30800097	0.03138498	0.31458265	0.09976704	0.92052927	NA
E4f1	1596.05274	0.03129016	0.16280873	0.19218971	0.8475936	0.94149486
Cdk8	3359.77896	0.03125107	0.17675825	0.17680121	0.85966454	0.9455234
Unc119	1928.92022	0.03124394	0.23736695	0.13162718	0.89527919	0.96063525
Ano2	0.79465391	0.03110076	0.19012965	0.16357657	0.87006449	NA
Cel	0.79465391	0.03110076	0.19012965	0.16357657	0.87006449	NA

Insl5	0.79465391	0.03110076	0.19012965	0.16357657	0.87006449	NA
Gbp2	11.7134961	0.03102654	0.39086141	0.0793799	0.93673046	0.97680516
Cxcr2	0.51723104	0.03095642	0.17570275	0.17618631	0.86014757	NA
Gm8773	0.51723104	0.03095642	0.17570275	0.17618631	0.86014757	NA
Bank1	0.51723104	0.03095642	0.17570275	0.17618631	0.86014757	NA
Olf12	0.51723104	0.03095642	0.17570275	0.17618631	0.86014757	NA
Prlhr	0.51723104	0.03095642	0.17570275	0.17618631	0.86014757	NA
Mir7082	0.51723104	0.03095642	0.17570275	0.17618631	0.86014757	NA
Dock9	3034.92418	0.03092319	0.2268232	0.13633168	0.89155908	0.95882678
Amer2	6.16961407	0.03083577	0.37980463	0.0811885	0.93529205	0.97595965
Nfkbib	2057.97441	0.03079983	0.20016169	0.15387477	0.87770848	0.95329223
Akt1	2700.71058	0.03075543	0.19307306	0.15929428	0.87343703	0.95171748
Gm16973	401.302121	0.03071643	0.25945602	0.11838779	0.9057604	0.96413846
Arih1	12121.0079	0.03068626	0.16699292	0.18375785	0.85420342	0.94431772
Wnt5a	7.83538646	0.03065568	0.39302596	0.07799913	0.93782875	0.97728142
D16Ert472e	2385.44563	0.03063705	0.32108515	0.09541722	0.92398344	0.9713263
Epha2	5973.6438	0.03062715	0.19982205	0.1532721	0.8781837	0.95329223
4921511C10F	0.83843903	0.0305565	0.24752013	0.12345056	0.90175032	NA
1700003D09I	0.83843903	0.0305565	0.24752013	0.12345056	0.90175032	NA
Nfx1	11780.6002	0.03054965	0.16607052	0.1839559	0.85404805	0.94431772
Gm5095	1.40545721	0.03052267	0.25515881	0.11962223	0.90478241	NA
Acat2	7288.96462	0.03047479	0.20354106	0.14972306	0.88098311	0.9546085
Vimp	2565.20164	0.03043212	0.21050893	0.14456452	0.88505471	0.95578308
Rbak	977.39304	0.0303958	0.21645191	0.14042751	0.88832222	0.95731423
BB557941	4.13753322	0.03036632	0.36702424	0.08273655	0.93406102	NA
Tmem150c	4.42399807	0.03033005	0.38551801	0.0786735	0.93729233	NA
Strap	17788.4849	0.03031263	0.17963033	0.16875006	0.86599324	0.94818425
4932415M13	0.46564746	0.03028766	0.17452574	0.17354266	0.86222489	NA
Tmem204	0.46564746	0.03028766	0.17452574	0.17354266	0.86222489	NA
Calml3	0.46564746	0.03028766	0.17452574	0.17354266	0.86222489	NA
Ms4a1	0.46564746	0.03028766	0.17452574	0.17354266	0.86222489	NA
Lrrc69	0.46564746	0.03028766	0.17452574	0.17354266	0.86222489	NA
4930483J18R	1.45402239	0.0301799	0.28388495	0.10631033	0.91533613	NA
Rtca	4125.52896	0.03015091	0.16841109	0.17903161	0.85791288	0.9455234
Ces2g	6.06286181	0.03007164	0.40077012	0.07503463	0.94018716	0.97844661
Lrp11	3936.75222	0.03006328	0.18148386	0.16565266	0.8684303	0.9493136
Pcdhb3	0.78447976	0.03001424	0.21821391	0.13754504	0.89059999	NA
Usb1	2156.11538	0.02995919	0.22429135	0.13357264	0.89374052	0.96004412
4931406B18F	1.35103076	0.02990605	0.1857575	0.16099512	0.87209725	NA
Klhl30	23.2740744	0.02987981	0.40515118	0.07374978	0.94120949	0.97866806
Gm10474	10.2588403	0.02987399	0.42821513	0.06976399	0.94438151	0.98005185

Commd2	2381.00781	0.02981703	0.16924344	0.17617835	0.86015383	0.9455234
Vwa5b1	1.36960417	0.02980098	0.2211855	0.13473299	0.89282299	NA
4931429P17F	0.5100753	0.02979824	0.1755489	0.16974325	0.86521206	NA
Gm4461	0.5100753	0.02979824	0.1755489	0.16974325	0.86521206	NA
Tmprss11g	0.5100753	0.02979824	0.1755489	0.16974325	0.86521206	NA
Hace1	1764.74509	0.02978391	0.21173823	0.14066383	0.88813552	0.95726334
Rrs1	6238.13489	0.02968047	0.17620795	0.16844	0.86623714	0.94838452
Mbd3l2	2.02570214	0.02960366	0.23663	0.12510528	0.90044021	NA
Dnali1	7.40943251	0.02958896	0.40034945	0.07390782	0.94108373	0.97866806
Dapp1	947.563774	0.02951507	0.26040722	0.11334197	0.90975945	0.96564042
Zfp777	2002.4486	0.02951112	0.17162493	0.17195123	0.86347587	0.94702747
BC039966	20.7451067	0.02950413	0.42586043	0.06928122	0.94476578	0.98017434
Fstl4	9.55753525	0.02930299	0.42618012	0.06875728	0.94518282	0.98022928
Chn2	548.182836	0.02928047	0.42964695	0.06815007	0.94566617	0.98027294
BC023829	1283.32005	0.02923778	0.18311949	0.15966502	0.87314496	0.95165946
Hcfc2	889.308423	0.029198	0.21073571	0.13855267	0.88980365	0.9580332
Brms1	1997.64265	0.02918946	0.21647891	0.13483743	0.89274041	0.95958049
Tekt3	0.78210408	0.02917926	0.18931971	0.15412691	0.87750967	NA
Gabbr2	0.78210408	0.02917926	0.18931971	0.15412691	0.87750967	NA
Tm9sf2	11676.3978	0.02909657	0.15368349	0.18932788	0.84983585	0.94277489
Stamos	8.15083451	0.02898729	0.42030358	0.0689675	0.94501549	0.98018648
Adam9	4147.38788	0.02893496	0.24320779	0.11897219	0.90529739	0.96404417
Pcdh10	0.80180965	0.0288934	0.18062898	0.15995994	0.87291263	NA
Fam227b	0.50468121	0.02887182	0.17542559	0.16458158	0.86927333	NA
Bmp3	0.50468121	0.02887182	0.17542559	0.16458158	0.86927333	NA
4930474N09I	0.50468121	0.02887182	0.17542559	0.16458158	0.86927333	NA
Stradb	726.913361	0.02885649	0.26304524	0.10970162	0.91264602	0.96715571
Camkk2	2343.63757	0.02873886	0.18264109	0.15735154	0.8749678	0.95244465
E130304I02R	1.13756577	0.02870571	0.29270907	0.09806907	0.92187745	NA
Sigirr	1281.65698	0.02843983	0.2430594	0.11700774	0.90685392	0.96458038
1700110K17F	11.3026618	0.02843218	0.43158681	0.06587824	0.94747477	0.98081963
Tufm	3774.7262	0.02839167	0.25065609	0.11326943	0.90981696	0.96564042
Ppm1b	7281.43798	0.02838097	0.15877754	0.17874678	0.85813654	0.9455234
0610039K10F	2.05468634	0.02836672	0.29827502	0.09510257	0.92423336	NA
Yy1	6746.00678	0.02835032	0.19012968	0.14911043	0.88146649	0.95490668
Gm16157	4.25265774	0.02830464	0.37776762	0.07492605	0.94027355	NA
Snx27	6951.99316	0.02830156	0.19905118	0.14218234	0.88693598	0.95669983
Samd8	3598.33368	0.02828029	0.20576204	0.13744174	0.89068164	0.9584185
Ctns	1862.83647	0.02819774	0.24624975	0.11450871	0.90883454	0.96531171
Cox6b2	2676.22438	0.02816839	0.25289316	0.11138456	0.9113114	0.96630326
E030019B06F	3.41919486	0.02814146	0.29872105	0.09420649	0.92494513	NA

Ddx39b	18556.9174	0.02805736	0.18862809	0.14874431	0.8817554	0.95502007
A330076H08	2.5851585	0.02802858	0.31808727	0.08811601	0.92978447	NA
Ccdc104	3516.75542	0.02800472	0.21855872	0.12813362	0.89804323	0.96162064
Alas1	1821.39702	0.02782487	0.17256701	0.16124093	0.87190365	0.95103974
Al839979	7.24119137	0.02780322	0.41847186	0.06643988	0.94702762	0.98076289
Engase	912.648415	0.02779137	0.25856129	0.10748467	0.91440449	0.96813073
Uri1	7682.61357	0.02775874	0.21367413	0.12991157	0.89663639	0.96129559
Uimc1	3178.13174	0.02771411	0.18788804	0.14750331	0.88273477	0.95554672
Uso1	8775.59838	0.02771208	0.21584483	0.12838892	0.8978412	0.96161706
Bean1	0.49752547	0.02768035	0.17526667	0.15793274	0.8745098	NA
Nkx2-1	0.49752547	0.02768035	0.17526667	0.15793274	0.8745098	NA
Tmem89	0.49752547	0.02768035	0.17526667	0.15793274	0.8745098	NA
A430093F15F	1.61312204	0.02765698	0.23027473	0.12010429	0.90440054	NA
Srpr	9918.35144	0.0276544	0.20657308	0.13387222	0.89350362	0.95985595
Tubb1	0.81911085	0.02758089	0.22023495	0.12523392	0.90033837	NA
Mir7064	0.81911085	0.02758089	0.22023495	0.12523392	0.90033837	NA
Gpx7	1131.03762	0.02756284	0.35018635	0.07870905	0.93726404	0.97680712
Acad10	441.662855	0.02754039	0.20136658	0.13676742	0.89121464	0.95858894
Pigw	632.519327	0.0275292	0.24074817	0.11434855	0.9089615	0.96531171
Tnnc1	51.946715	0.02750891	0.36776316	0.07480061	0.94037336	0.97844661
5031425F14F	1.43971091	0.02745242	0.28357298	0.09680899	0.92287808	NA
Nkx6-2	623.525925	0.02745086	0.40696311	0.06745293	NA	NA
Calcr	2.98619566	0.02740897	0.35754426	0.07665897	0.93889485	NA
Cxcr3	1.38575164	0.02733556	0.25461904	0.10735867	0.91450444	NA
Mef2b	238.803171	0.02726941	0.32014883	0.0851773	0.93212044	0.97430464
Ppap2c	455.760223	0.02726371	0.25721925	0.10599405	0.91558708	0.96836839
Rnf170	958.932745	0.02719544	0.21234241	0.12807352	0.89809079	0.96162064
Ski	5013.21968	0.02712164	0.20050778	0.13526477	0.89240253	0.9595291
Agap1	2272.65134	0.02709117	0.20316896	0.13334304	0.89392209	0.96010139
Mir24-2	0.80920203	0.02701816	0.21966808	0.12299537	0.90211076	NA
2900060B14F	7.07419092	0.02700242	0.40009231	0.06749047	0.94619125	0.98057263
Zdhhc6	3053.83154	0.02699675	0.1621744	0.16646741	0.86778913	0.94908142
Mir679	0.7677926	0.02699445	0.18837304	0.14330315	0.88605077	NA
Selenbp2	0.7677926	0.02699445	0.18837304	0.14330315	0.88605077	NA
Pigs	4299.92843	0.02696985	0.19062002	0.14148486	0.88748692	0.95689587
Fcho1	1930.96845	0.02690133	0.2278918	0.11804429	0.90603256	0.96419027
Foxc2	36.6983106	0.02685108	0.42819133	0.06270813	0.94999892	0.98175394
Erc2	2256.07454	0.02681584	0.21786564	0.12308429	0.90204035	0.96270877
Cox20	791.614618	0.02680622	0.19660201	0.13634764	0.89154646	0.95882678
Rps3a1	39888.4579	0.02678921	0.27383719	0.09782895	0.92206812	0.97043051
Malat1	17041.9894	0.02674643	0.2253526	0.11868702	0.90552332	0.96404417

Zfp14	348.24388	0.02666049	0.21649148	0.12314801	0.90198989	0.96270877
Adsl	6665.11475	0.02650679	0.20604798	0.12864378	0.89763952	0.96153958
Kcne3	1.75854322	0.02644992	0.2982197	0.08869272	0.92932612	NA
Ube2z	13364.4287	0.02640377	0.17236884	0.15318181	0.8782549	0.95329223
Appl2	1559.16946	0.02637554	0.22806767	0.11564788	0.90793161	0.96495598
Gm21319	7.2401436	0.02637514	0.39682315	0.06646573	0.94700704	0.98076289
Mir7087	1.1450989	0.02632849	0.24060164	0.10942771	0.91286325	NA
Yif1a	2214.21247	0.02631947	0.21792398	0.12077361	0.90387035	0.96364421
Reps1	4065.96825	0.02628735	0.15316051	0.17163269	0.86372631	0.94702747
Arl8b	5846.93268	0.02627365	0.17831843	0.14734117	0.88286274	0.95554672
Megf6	213.26332	0.02626975	0.36133364	0.0727022	0.9420431	0.97906786
Mcm4	26306.7845	0.0262666	0.21771367	0.12064747	0.90397027	0.96364421
Ppil3	2331.04663	0.02623173	0.17997901	0.14574886	0.88411965	0.95575952
Tpra1	770.061494	0.02619943	0.20329656	0.12887296	0.89745817	0.96153958
Pou4f3	2.09046504	0.02617171	0.26859647	0.09743876	0.92237797	NA
Fhad1	161.165004	0.02614591	0.42511324	0.0615034	0.95095831	0.98228845
Dlg3	2742.01503	0.02611189	0.16751937	0.15587386	0.87613245	0.95264675
Zfp780b	658.199783	0.0260881	0.24395834	0.10693669	0.91483921	0.96832729
0610012G03I	1557.95538	0.0260217	0.20733618	0.12550485	0.90012389	0.96238065
Tbxas1	0.85098886	0.02602071	0.2219958	0.11721262	0.90669157	NA
Mir7052	0.85098886	0.02602071	0.2219958	0.11721262	0.90669157	NA
Gm20735	0.85098886	0.02602071	0.2219958	0.11721262	0.90669157	NA
Mir1943	3.7612338	0.02601132	0.3719665	0.06992921	0.94425	NA
Itm2b	5097.26129	0.02589714	0.17325908	0.14947064	0.88118228	0.95466529
Adam2	5.25452658	0.02576201	0.36853006	0.06990477	0.94426946	NA
Ascl2	159.815878	0.02573708	0.3955946	0.06505923	0.94812684	0.98086219
Plet1	1309.58994	0.02557605	0.32816467	0.07793663	0.93787846	0.97728142
Il4i1	0.48497564	0.02550059	0.17497501	0.14573848	0.88412784	NA
Gm1110	0.48497564	0.02550059	0.17497501	0.14573848	0.88412784	NA
Mir6400	0.48497564	0.02550059	0.17497501	0.14573848	0.88412784	NA
H2-Q1	0.48497564	0.02550059	0.17497501	0.14573848	0.88412784	NA
Elfn2	3.86413563	0.02549197	0.39185327	0.06505489	0.94813029	NA
Tmem202	3.64957396	0.02548275	0.3798146	0.06709261	0.94650798	NA
Atp5d	9799.03151	0.02547918	0.18909498	0.13474276	0.89281526	0.95958049
Gtf2e1	6615.81944	0.02544161	0.14503297	0.1754195	0.86075002	0.94567701
Lmf2	1962.15518	0.02541695	0.21175541	0.12002976	0.90445957	0.96370338
Mef2a	1162.66161	0.02538932	0.21482413	0.11818654	0.90591986	0.96413846
Yap1	11441.6717	0.02533963	0.19755042	0.12826918	0.89793596	0.96162064
Col6a6	2.35479839	0.02530462	0.28244595	0.08959101	0.92861223	NA
Lor	5.17276193	0.02525517	0.37309188	0.06769156	0.94603117	NA
Sec24d	2734.69378	0.02524165	0.20812502	0.1212812	0.90346831	0.96343157

Arc	2032.53294	0.02521668	0.24447917	0.10314451	0.91784828	0.96891454
Anks1b	19.4793324	0.02514316	0.43040124	0.05841794	0.95341572	0.98295517
Gstt4	2.94401598	0.02500831	0.31799822	0.07864293	0.93731664	NA
Tnrc6b	2844.78608	0.02490291	0.28685181	0.08681456	0.93081891	0.97430464
Nubp2	4389.64306	0.02490018	0.19506156	0.12765291	0.89842366	0.96162064
Hibadh	5855.267	0.0248868	0.21674588	0.11482019	0.90858765	0.96525799
Chrna5	28.3497041	0.02487156	0.42384186	0.05868123	0.95320601	0.98295517
Rab1	21933.6771	0.02484315	0.15951896	0.15573791	0.87623962	0.95264675
Jagn1	2904.06462	0.02478347	0.17849175	0.13884941	0.88956915	0.95801989
Kcnj13	0.84321909	0.02466451	0.19133285	0.12890891	0.89742973	NA
Gsx1	0.84321909	0.02466451	0.19133285	0.12890891	0.89742973	NA
1700125G22I	0.84321909	0.02466451	0.19133285	0.12890891	0.89742973	NA
Eif2s3y	4304.26847	0.02465776	0.20024204	0.12313979	NA	NA
Kif2a	5440.93055	0.02456771	0.20882711	0.11764616	0.90634803	0.96428995
Cldn26	0.79665221	0.02452853	0.2189018	0.11205264	0.91078167	NA
5730507C01F	1723.77718	0.02452698	0.36727628	0.06678074	0.94675626	0.98072348
Baz1b	13478.7813	0.02451422	0.19671886	0.12461551	0.90082795	0.96269291
1700084J12R	2.03294768	0.02447063	0.30724243	0.07964599	0.93651881	NA
Mybph	20.1762492	0.02444524	0.42888451	0.05699725	0.95454738	0.98360661
Ccdc157	565.022422	0.02437628	0.25250148	0.09653914	0.92309239	0.97104849
Snx17	4325.88713	0.02427259	0.18370314	0.13212941	0.89488194	0.96038316
Ccdc84	587.015707	0.02426915	0.18078097	0.13424616	0.89320793	0.95975807
Ccnl1	4923.87801	0.02426658	0.19709225	0.12312297	0.90200972	0.96270877
Hspb3	2.10698991	0.02418632	0.28083756	0.08612209	0.93136936	NA
Tll2	1.08123082	0.02418254	0.20885158	0.11578815	0.90782044	NA
Egln1	2194.02033	0.02413491	0.279381	0.08638709	0.93115871	0.97430464
Psmc2	33405.5386	0.02409567	0.15260433	0.15789639	0.87453845	0.95217723
Rpusd1	1010.09164	0.02400703	0.23429423	0.10246529	0.91838736	0.96904885
Scp2d1	1.79768902	0.02396664	0.29873743	0.08022645	0.93605715	NA
Lrig2	2672.64008	0.02389144	0.19844943	0.12039057	0.90417376	0.96369802
Cysltr1	1.40901531	0.02388681	0.18746651	0.12741907	0.89860872	NA
1700101E01F	155.149574	0.02383595	0.38327034	0.06219096	0.95041076	0.98198377
Samhd1	5763.02967	0.0238003	0.16026251	0.14850825	0.88194168	0.95515531
Tpm3	21126.4082	0.02374646	0.20388501	0.11646988	0.90728015	0.96492365
Gm16845	48.3423647	0.02366851	0.36095415	0.06557207	0.94771853	0.98083012
Ccdc108	2.7336358	0.02364353	0.28431177	0.08316058	0.93372385	NA
H2-Ab1	168.1874	0.02363149	0.42368329	0.05577632	0.95552	0.98381504
Mrps23	3292.01067	0.0235482	0.22817651	0.10320169	0.9178029	0.96891454
Mtif3	1231.53576	0.02349728	0.18967032	0.12388487	0.90140644	0.96269291
Scarna9	0.83881642	0.02344893	0.19266236	0.12170999	0.9031287	NA
4930455C13F	0.83881642	0.02344893	0.19266236	0.12170999	0.9031287	NA

Ccdc40	216.808152	0.02336889	0.33372766	0.07002382	0.9441747	0.98001007
Ubxn6	2360.88796	0.02331838	0.18910403	0.12330978	0.90186179	0.96270877
Hic2	7077.07148	0.02327404	0.19673345	0.11830243	0.90582803	0.96413846
Ilvbl	740.93887	0.02322268	0.2412506	0.09625958	0.92331442	0.971175
Zfp867	565.10815	0.02315998	0.2154714	0.10748519	0.91440408	0.96813073
Gorasp2	5671.43316	0.02311132	0.17261983	0.13388566	0.89349299	0.95985595
Lmbr1	1392.2361	0.02296923	0.21698907	0.1058543	0.91569795	0.96836839
Slc2a10	1.1620514	0.02268252	0.20942261	0.10830978	0.91374997	NA
R3hdm2	4899.70277	0.02260604	0.17043331	0.13263865	0.89447917	0.96024637
Aifm1	8014.39688	0.02252892	0.1610267	0.13990795	0.88873272	0.95743646
Aqp5	14.4960609	0.02248038	0.42426605	0.05298653	0.95774264	0.98460749
Gm16551	3.39802098	0.02243137	0.36698375	0.06112361	0.95126077	NA
Gadl1	1.12064196	0.02240361	0.18325484	0.12225387	0.90269797	NA
Suclg2	6015.54429	0.02234908	0.21331691	0.10476939	0.9165588	0.96871937
Srcrb4d	858.423695	0.02232355	0.30842464	0.07237926	0.94230009	0.97906786
Fxr2	12825.4341	0.02229042	0.1671757	0.13333526	0.89392824	0.96010139
Mir5100	0.83128329	0.02219124	0.22087517	0.1004696	0.91997152	NA
Tcap	0.83128329	0.02219124	0.22087517	0.1004696	0.91997152	NA
Gm13031	0.83128329	0.02219124	0.22087517	0.1004696	0.91997152	NA
Edar	1.16480447	0.0221901	0.20950599	0.10591631	0.91564875	NA
Ccnh	4322.90942	0.02218912	0.16869935	0.13153057	0.8953556	0.96065096
Gm6938	4.0889896	0.02213474	0.38014042	0.05822779	0.95356718	NA
Sec23ip	4935.91747	0.02213168	0.2327063	0.09510561	0.92423094	0.9713263
Slmap	7712.65145	0.02210475	0.21527998	0.10267909	0.91821767	0.96900129
Chrdl2	2.00034968	0.02202307	0.27457461	0.08020795	0.93607187	NA
Bmi1	2131.25456	0.0220217	0.1949897	0.11293775	0.91007991	0.96572178
Slc7a10	1.4366925	0.02201497	0.3096444	0.07109758	0.9433201	NA
Mapk8ip1	822.907	0.02196834	0.20757646	0.10583253	0.91571523	0.96836839
H2-T23	7.9006719	0.02186996	0.4291378	0.05096256	0.95935535	0.98500986
AB124611	4.50367102	0.02182605	0.37766395	0.05779226	0.9539141	NA
Tmie	35.7406313	0.02182336	0.40705728	0.05361251	0.95724389	0.9845304
Gfm2	4275.32416	0.02176163	0.14545099	0.14961488	0.88106847	0.9546085
4933432G23I	3.58933831	0.0217515	0.33325886	0.06526907	0.94795977	NA
4930525D18I	2.12153803	0.02171418	0.34167919	0.06355138	0.94932745	NA
Tbc1d17	1890.09992	0.02167847	0.17701425	0.12246735	0.9025289	0.96299699
Ocm	1.81023885	0.02165795	0.27275893	0.07940326	0.93671188	NA
Serpina3k	0.84597216	0.02145786	0.18106043	0.11851217	0.90566185	NA
Tfap2b	0.84597216	0.02145786	0.18106043	0.11851217	0.90566185	NA
Mmrn1	0.84597216	0.02145786	0.18106043	0.11851217	0.90566185	NA
Ube2dn12	0.84597216	0.02145786	0.18106043	0.11851217	0.90566185	NA
Rnf19b	6497.27479	0.02142599	0.22521891	0.09513405	0.92420836	0.9713263

Hadha	9733.60641	0.02141411	0.15398362	0.13906742	0.88939687	0.95795891
Ii19	0.74269294	0.02140113	0.18000655	0.11889082	0.90536185	NA
Aim1l	735.252702	0.02139969	0.29854451	0.07168008	0.94285651	0.97951511
Psmid9	1414.6207	0.02136718	0.1812899	0.11786194	0.90617705	0.96427804
Fam136a	7976.45847	0.02129673	0.1809663	0.11768338	0.90631853	0.96428995
Mc5r	23.0259772	0.02114112	0.41286508	0.05120589	0.95916146	0.98500986
Gm111186	1.17219685	0.02113086	0.27078767	0.07803481	0.93780036	NA
Lypd6	149.580721	0.02112646	0.35314137	0.05982438	0.9522955	0.9826254
Mcl1	36244.7999	0.0210997	0.26771828	0.07881308	0.9371813	0.97680712
4933426M11	4821.74515	0.02107853	0.23729034	0.08883014	0.92921691	0.97353986
2310003H01l	963.943421	0.0210018	0.1950854	0.10765438	0.91426986	0.96812002
Actr10	4539.54857	0.02087145	0.18267692	0.11425336	0.90903695	0.96531171
Golga5	3682.60669	0.02086201	0.15154337	0.13766359	0.89050629	0.9584185
Fabp9	1.16002441	0.02084781	0.24107809	0.08647743	0.9310869	NA
Snap29	2149.49384	0.02075915	0.17749618	0.11695545	0.90689536	0.96458038
Cyp2e1	1.18914935	0.02066382	0.24474273	0.08443078	0.93271394	NA
Dnajc19	2539.23636	0.02062928	0.18684329	0.11040953	0.91208459	0.9667935
Fkbp11	1134.49261	0.02055173	0.25513893	0.08055113	0.93579894	0.97629205
Fbxo42	4648.10008	0.02053171	0.21355398	0.09614297	0.92340703	0.971175
Top3b	7134.00164	0.02052194	0.18736141	0.10953131	0.91278109	0.96720215
Cyp2c70	100.730245	0.02051275	0.39311994	0.05217936	0.95838578	0.98484816
Smарcb1	6052.23638	0.02048649	0.18978993	0.10794299	0.91404091	0.96800942
Wdfy2	447.289206	0.02048231	0.27379732	0.07480828	0.94036725	0.97844661
Med27	1279.57265	0.0203933	0.21328788	0.09561396	0.92382718	0.9712368
Gm3435	7.62120049	0.02036435	0.41855737	0.04865366	0.9611953	0.98598603
Pofut1	2544.23792	0.02032842	0.19557909	0.10393965	0.91721724	0.96885548
Myod1	1.12501594	0.02027811	0.26627794	0.07615391	0.93929665	NA
Golim4	847.189476	0.02017968	0.29219913	0.06906139	0.94494076	0.98017434
Tgm4	1.47132359	0.02012936	0.31390873	0.06412488	0.94887079	NA
Gm13051	458.040094	0.02008492	0.32779974	0.06127192	0.95114266	0.98234837
Hist1h4b	10.2396338	0.02001279	0.42737136	0.04682764	0.9626506	0.98660086
G6pc3	863.441033	0.02000122	0.23930305	0.08358113	0.93338947	0.97475922
Spcs2	7906.32018	0.01992354	0.16040452	0.12420808	0.90115052	0.96269291
D6Wsu163e	1423.55253	0.01990222	0.15962688	0.12467962	0.90077719	0.96269291
Pkd2l2	3.87630807	0.019881	0.38548885	0.05157347	0.95886856	NA
Arhgap29	644.600397	0.0197604	0.3242361	0.06094449	0.95140341	0.98235672
2200002J24R	2.30397568	0.01970325	0.24226877	0.08132807	0.93518105	NA
Strc	2.00608637	0.01965843	0.30548134	0.06435231	0.94868971	NA
Atp8a1	2228.74408	0.01963431	0.28937907	0.0678498	0.9459052	0.98045536
Zdhhc5	5845.63979	0.01963251	0.20829948	0.09425137	0.92490948	0.97150501
Ndufa5	3407.04518	0.01963115	0.19731469	0.09949159	0.92074796	0.96990703

Taf4b	2810.69729	0.019465	0.18923565	0.10286117	0.91807316	0.96891454
Ppara	28.9440095	0.0194544	0.42472834	0.04580433	0.96346621	0.98668128
Fbxo2	406.90532	0.01941328	0.29091122	0.06673268	0.94679452	0.98072348
1700024P16F	5.23735609	0.01930408	0.39745906	0.04856872	0.961263	NA
Tunar	819.749769	0.01928845	0.36363961	0.05304278	0.95769783	0.98460749
Apoa1	11.844967	0.01922709	0.42134177	0.045633	0.96360277	0.98668128
Ptov1	5909.13659	0.01920862	0.19188854	0.100103	0.92026255	0.96990703
Tbc1d23	3192.83055	0.01920605	0.25860564	0.07426772	0.94079736	0.97855259
Thpo	277.865029	0.01919658	0.30992909	0.06193862	0.95061171	0.98212615
Cdc42ep4	2616.51759	0.01904126	0.26161787	0.07278271	0.94197903	0.97906786
Angel2	3160.02806	0.01903116	0.16831051	0.11307173	0.90997369	0.96572178
1700093K21F	2.16772753	0.01902373	0.31207614	0.06095862	0.95139216	NA
Med12l	1202.076	0.01897281	0.31329507	0.0605589	0.9517105	0.98252684
Kdm1b	2141.11431	0.01897048	0.18208738	0.10418341	0.9170238	0.96879329
Alox12b	27.055904	0.01893281	0.4173324	0.04536626	0.96381538	0.98668128
Gm19345	14.8216245	0.01879343	0.42729608	0.04398222	0.96491858	0.98668128
Cog8	2175.29863	0.01878495	0.2363973	0.07946348	0.93666398	0.97680133
Ccni	6722.73365	0.01877651	0.21333886	0.08801259	0.92986667	0.97394786
Tmem8c	1.1178602	0.01877252	0.26602851	0.07056582	0.94374331	NA
B630019K06F	13.5324262	0.01869671	0.42247253	0.04425545	0.96470078	0.98668128
Exoc6	1710.87142	0.01868163	0.22020195	0.0848386	0.9323897	0.97430464
Sgta	5719.06616	0.01858553	0.20515829	0.09059117	0.92781745	0.97272899
Fut10	1172.58112	0.01856947	0.2155858	0.08613493	0.93135915	0.97430464
Nipal2	75.0320709	0.01856458	0.38222684	0.04856954	0.96126234	0.98598976
A630020A06	24.1302777	0.01856147	0.4099188	0.04528084	0.96388346	0.98668128
Etf1	36482.3679	0.01842852	0.17739743	0.10388269	0.91726244	0.96885548
Erc1	4922.92585	0.01841244	0.23774405	0.07744647	0.93826838	0.97736027
Sugct	7.21918738	0.01835806	0.42522685	0.04317238	0.96556412	0.98699467
Tyrobp	2.08789837	0.01829516	0.30763593	0.05947016	0.95257763	NA
1700001K23F	5.15350808	0.01827698	0.38213981	0.04782799	0.96185333	NA
Dad1	3915.09636	0.01827121	0.21546763	0.08479792	0.93242204	0.97430464
Tnni2	1.09853201	0.01813534	0.23879849	0.07594412	0.93946356	NA
Tyms	8776.58041	0.01811698	0.19312115	0.0938115	0.9252589	0.9715622
Paip1	5957.30503	0.01808232	0.19770253	0.09146224	0.92712531	0.97259347
Cryl1	458.962835	0.01808231	0.23266041	0.07771976	0.93805097	0.97735613
Ifitm5	74.1216781	0.01801743	0.36808124	0.04894961	0.96095945	0.9858688
Tfap2e	23.342047	0.01795337	0.41410198	0.04335495	0.96541859	0.9869787
Gm5458	6.45096238	0.01794449	0.38316267	0.04683257	0.96264667	0.98660086
Zmynd15	24.482369	0.0179119	0.41368083	0.04329885	0.96546331	0.9869787
Mrpl16	2157.17221	0.01790898	0.18081711	0.0990447	0.92110278	0.97000537
Snupn	1755.77142	0.0178011	0.19392189	0.09179523	0.92686073	0.97238317

Fnbp1l	9223.24323	0.01779488	0.17887891	0.09948004	0.92075713	0.96990703
Dnpep	7114.06779	0.01773765	0.22300634	0.07953879	0.93660408	0.97680133
Bcs1l	1114.40944	0.01766905	0.20805169	0.08492625	0.93232002	0.97430464
Txlna	9320.67024	0.01765958	0.17943766	0.09841622	0.9216018	0.97033375
Prpf38b	8953.57475	0.01763135	0.15771296	0.11179392	0.91098681	0.96617289
Tsr2	2982.162	0.01758755	0.17953425	0.0979621	0.92196239	0.97043051
0610007P14F	4482.13301	0.01758617	0.16620935	0.10580732	0.91573523	0.96836839
Ap1s1	3966.07511	0.01753881	0.16966317	0.10337428	0.91766592	0.96891454
Ncln	4509.90224	0.01748388	0.20989339	0.08329884	0.93361392	0.97492815
Tbx21	402.9856	0.01732306	0.26923852	0.06434096	0.94869874	0.98128695
Zfp3	315.433012	0.01713515	0.21720546	0.07888911	0.93712082	0.97680712
Gbp2b	2.714685	0.01704716	0.21725033	0.07846782	0.93745593	NA
Ttll12	3616.97678	0.01687219	0.19575768	0.08618917	0.93131604	0.97430464
Scn4a	9.45369545	0.01670439	0.41172096	0.04057213	0.96763701	0.98780003
Tmed8	2788.06615	0.01670159	0.23515076	0.07102504	0.94337782	0.97979487
Palmd	1.20346083	0.01667175	0.21083725	0.07907401	0.93697375	NA
Slc1a2	1.45877376	0.01664025	0.31001151	0.05367623	0.95719312	NA
Eif3k	21465.3166	0.01663141	0.20673283	0.08044883	0.93588029	0.97631143
Scarna6	4.71475965	0.01661134	0.38848018	0.04275981	0.965893	NA
Cda	2.98191148	0.01652581	0.33057148	0.04999163	0.96012906	NA
Rap1gap	1696.63538	0.01651863	0.30244721	0.05461658	0.95644393	0.98405248
Rhbdd1	1336.68319	0.01650059	0.26380309	0.06254887	0.95012575	0.98181975
Snf8	3118.34676	0.0162514	0.20982041	0.07745387	0.93826249	0.97736027
Al848285	375.066563	0.01615463	0.39541945	0.04085441	0.96741196	0.98780003
Exoc5	3950.88453	0.01611935	0.17943476	0.08983405	0.92841909	0.97296619
Suclg1	8864.76012	0.01606573	0.16560533	0.09701217	0.92271673	0.97078465
Urod	4209.48132	0.01599366	0.20826912	0.07679323	0.93878804	0.97776256
Bysl	4377.28401	0.0159185	0.23041773	0.0690854	0.94492165	0.98017434
Txnl1	13276.7921	0.01587936	0.16267466	0.09761424	0.92223861	0.97047859
Sertad4	170.43841	0.01579129	0.33962259	0.04649659	0.96291445	0.98660086
2310061I04R	1695.44752	0.01576024	0.1869076	0.08432103	0.93280119	0.97453754
Pxylp1	367.468408	0.01575031	0.27030157	0.05826941	0.95353404	0.98295517
Acbd3	3395.70543	0.01559853	0.16952529	0.09201299	0.92668772	0.97238317
Mir6351	0.88462853	0.0155446	0.18140125	0.0856918	0.93171142	NA
Cdk5rap1	1702.96023	0.01549971	0.17089937	0.09069493	0.927735	0.97272899
M6pr	13599.1199	0.01546088	0.16677015	0.09270773	0.92613575	0.97229279
1700060C20F	2.7112515	0.01544112	0.31890238	0.04841958	0.96138186	NA
Tecpr1	1604.21342	0.0154109	0.17709495	0.08702056	0.93065517	0.97430464
Ndufa7	11382.9444	0.01537945	0.24190764	0.06357573	0.94930806	0.98150429
Kcnf1	79.9684768	0.01533607	0.42208821	0.03633381	0.97101619	0.98882017
Gm10451	576.717181	0.01529742	0.21684234	0.07054627	0.94375887	0.97986765

Foxf2	0.86492296	0.01524979	0.19402997	0.07859505	0.93735473	NA
Bend5	77.9388996	0.01521407	0.3394115	0.04482485	0.96424692	0.98668128
Cyp46a1	30.6759283	0.0151902	0.39293911	0.03865789	0.96916315	0.98809782
Fbxo7	1627.99566	0.01517974	0.17537114	0.08655779	0.93102302	0.97430464
Slc1a3	116.48378	0.01516931	0.4097574	0.03702021	0.97046889	0.98862285
Rbm14	6057.09353	0.01509082	0.21454747	0.0703379	0.94392472	0.97986765
Shfm1	7310.07976	0.01508549	0.23967258	0.06294208	0.94981263	0.98162665
Eif1	14652.9625	0.01501825	0.15959867	0.09410009	0.92502964	0.97150501
Cry2	1592.30242	0.01498042	0.20063733	0.07466416	0.94048192	0.97844661
Med8	2988.52323	0.01496209	0.1591265	0.09402641	0.92508817	0.97150501
2310036O22I	5052.13048	0.01490118	0.19929069	0.07477108	0.94039685	0.97844661
Gli2	6221.45744	0.01487814	0.23134646	0.06431108	0.94872253	0.98128695
Rasd2	164.965395	0.01443891	0.36876486	0.03915478	0.96876698	0.98792827
1110034G24I	572.29562	0.01438652	0.23554608	0.06107731	0.95129764	0.98235672
Nufip2	13072.4332	0.01436979	0.21081298	0.0681637	0.94565533	0.98027294
G6pd2	4.24745005	0.01435374	0.40123487	0.03577392	0.97146263	NA
Syt17	40.8271959	0.0143024	0.4263534	0.03354588	0.97323928	0.98952887
Dhrs1	1607.20431	0.01428127	0.21873344	0.06529076	0.9479425	0.98083012
Rnf25	1396.39516	0.01424923	0.22500492	0.06332854	0.94950489	0.98150429
Gm14440	1.17897521	0.01418901	0.27097702	0.05236242	0.95823992	NA
Lancl1	2935.87955	0.01416548	0.20960821	0.06758076	0.94611937	0.98057263
Gpm6b	5.21611331	0.01415008	0.37130433	0.03810913	0.96960067	NA
Plaa	16960.988	0.01409096	0.1620948	0.08693038	0.93072685	0.97430464
Emc6	4754.2725	0.0140673	0.23432326	0.06003374	0.95212876	0.98262097
Atg5	4123.99402	0.01404428	0.16364408	0.08582208	0.93160786	0.97430464
Tuba3	1.14747458	0.01403416	0.2114319	0.06637676	0.94707787	NA
Slc33a1	1569.1778	0.01395419	0.21047424	0.0662988	0.94713994	0.98076289
Ube2g2	2076.4273	0.01392753	0.18938752	0.07353984	0.94137654	0.97869679
Rps6ka3	3130.6396	0.01375606	0.22096683	0.06225395	0.9503606	0.98198377
4930503L19F	1963.45018	0.01367318	0.22994535	0.05946273	0.95258355	0.9827922
Cstf2	8771.74631	0.01341426	0.17710153	0.07574331	0.93962332	0.97818197
Rfc2	6796.30763	0.01338122	0.17974921	0.07444381	0.94065725	0.9784723
Gpld1	79.8047051	0.01329211	0.42765824	0.03108115	0.97520482	0.99055586
BB123696	10.0641088	0.01327204	0.38659778	0.03433035	0.97261372	0.98939312
Rbfox2	10317.7474	0.01324931	0.19323668	0.0685652	0.94533572	0.98027294
Nxt1	2917.9015	0.01320566	0.17661746	0.07476982	0.94039785	0.97844661
Bend3	2796.24955	0.01316541	0.22695915	0.05800785	0.95374237	0.98307468
9130227L01F	2.17450588	0.01314229	0.30825545	0.04263441	0.96599296	NA
Slc35e1	5401.52458	0.01312507	0.20752863	0.06324464	0.9495717	0.98150811
Fam20b	2806.79054	0.01310072	0.18634481	0.07030365	0.94395198	0.97986765
Kif4-ps	1.55654684	0.01309161	0.25568646	0.05120181	0.95916471	NA

Cpa1	0.85061147	0.01307954	0.19320823	0.06769661	0.94602715	NA
Sdr42e1	72.6837895	0.01304105	0.34812223	0.03746112	0.97011734	0.98842264
Atg16l1	4196.04287	0.01301297	0.16512068	0.07880883	0.93718468	0.97680712
Lama2	5.65578493	0.01294807	0.35435763	0.03653956	0.97085213	NA
Idh2	17707.5432	0.01293401	0.22059176	0.05863323	0.95324424	0.98295517
Chst13	7.39135138	0.01292728	0.42772191	0.03022356	0.97588876	0.99061251
Commd4	4232.62162	0.01292668	0.19685673	0.06566542	0.9476442	0.98081963
Krt84	1.4812324	0.0129017	0.25689385	0.05022193	0.95994554	NA
Cc2d2a	1289.48933	0.01287867	0.2477012	0.05199276	0.95853446	0.98484816
Sdcbp	5392.99192	0.01275688	0.22457653	0.05680417	0.95470119	0.98360661
Fam19a4	229.880269	0.01273679	0.39765357	0.03202987	0.97444823	0.98998135
Rangap1	17295.6532	0.01271568	0.18633085	0.06824249	0.94559261	0.98027294
Zbtb21	2557.66041	0.01265874	0.21528457	0.05880004	0.95311137	0.98295517
Rhbg	319.624098	0.01262602	0.36190138	0.03488801	0.97216904	0.98936861
4930505A04f	1.50809371	0.01262207	0.22296491	0.05661011	0.95485578	NA
Gpr179	149.634411	0.0125844	0.30198373	0.04167243	0.96675983	0.98762454
Pwwp2b	158.40153	0.01256854	0.26634267	0.04718938	0.9623623	0.98657422
Ap1s2	2168.61647	0.01253326	0.31049408	0.04036554	0.96780171	0.98780003
Kcnq4	20.5939545	0.01237864	0.43029622	0.02876771	0.97704985	0.99086475
Clcna	211.615262	0.01232273	0.3250799	0.03790676	0.96976202	0.98814768
Fabp12	9.14951722	0.01224898	0.3979743	0.03077833	0.97544632	0.99060705
Dusp26	15.6920755	0.01204477	0.43199637	0.02788165	0.97775654	0.99086475
Mir3960	7.50669099	0.01201125	0.4215794	0.02849108	0.97727049	0.99086475
Dhx34	1088.68206	0.01195218	0.1871493	0.0638644	0.9490782	0.98146102
Hdac3	5185.359	0.01194504	0.16487845	0.07244753	0.94224576	0.97906786
Esrrb	46739.2164	0.01191081	0.18707775	0.06366772	0.94923481	0.98150429
Fbxo30	6275.74244	0.01190366	0.20648933	0.05764781	0.95402916	0.98323995
Pacs1	1540.62899	0.01187934	0.17940281	0.06621604	0.94720582	0.98076289
11-Mar	20.9786262	0.01179139	0.4304023	0.0273962	0.97814373	0.99086475
Esyt1	5590.45548	0.01176717	0.21054207	0.05588987	0.95542954	0.98381504
1700013G24l	2.11851963	0.01171661	0.3416846	0.03429071	0.97264533	NA
Ilf2	16429.9607	0.01171396	0.16585302	0.07062856	0.94369338	0.97986765
Gm4827	16.8388825	0.01168179	0.41312905	0.02827638	0.97744172	0.99086475
A330032B11l	1.49340484	0.01150912	0.28801922	0.03995957	0.96812536	NA
Igf2bp3	12359.787	0.01149768	0.1534449	0.07493034	0.94027014	0.97844661
Mrps18b	3543.90547	0.01148275	0.20163015	0.05694957	0.95458537	0.98360661
Zfp580	261.119155	0.01144038	0.23597457	0.0484814	0.96133259	0.98599678
Dao	4.59424714	0.01129344	0.35835627	0.03151457	0.97485918	NA
Ccin	7.81579125	0.01118683	0.42050009	0.02660364	0.97877587	0.99095946
Calcr1	1.76505624	0.01117559	0.3020195	0.03700286	0.97048272	NA
Mtbp	4022.59656	0.01116936	0.1526779	0.07315634	0.94168171	0.97888318

Kdelc1	3214.46238	0.01114741	0.19747058	0.05645101	0.95498253	0.98369871
Tmem27	0.83806164	0.01113137	0.19247223	0.05783365	0.95388113	NA
Zfp663	1.12776901	0.01105143	0.20869651	0.05295456	0.95776812	NA
U2af2	15174.8221	0.01102327	0.17837308	0.06179893	0.95072296	0.98217582
Atp13a1	5515.42552	0.0109704	0.24107638	0.04550589	0.96370408	0.98668128
Fat4	1.52779928	0.01086442	0.19144785	0.0567487	0.95474538	NA
BC048507	1.48349603	0.01085513	0.28784239	0.03771208	0.96991725	NA
Tmem189	1547.2232	0.0107892	0.18266669	0.05906493	0.95290039	0.98295517
Shq1	2281.36515	0.0107578	0.16846789	0.06385667	0.94908436	0.98146102
Hcn4	32.0055749	0.01073726	0.40383821	0.02658802	0.97878833	0.99095946
Sh3bp4	4165.89569	0.01073431	0.25395727	0.04226817	0.96628492	0.98742915
4933428G20I	2.07397973	0.01067391	0.31231053	0.03417724	0.97273581	NA
Adar	4217.18988	0.01047926	0.20984737	0.04993752	0.96017218	0.98552159
Lrrc46	55.4975362	0.01047882	0.36881717	0.02841195	0.97733359	0.99086475
Kank4	815.496412	0.01045907	0.26744495	0.03910737	0.96880479	0.98792827
Acads	4736.90972	0.01042889	0.15093968	0.06909308	0.94491553	0.98017434
Ddt	4022.38978	0.01034492	0.24464384	0.04228564	0.96627099	0.98742915
Hagh	2106.95523	0.0102632	0.23191895	0.04425339	0.96470242	0.98668128
Psg16	1.75514743	0.01021397	0.29819386	0.03425278	0.97267558	NA
Ndufa4	15699.0091	0.01016687	0.19483939	0.05218078	0.95838465	0.98484816
E230029C05F	3.27613966	0.01008612	0.33162273	0.03041445	0.97573652	NA
Dcp1a	2960.87604	0.00999263	0.19357809	0.05162065	0.95883097	0.98499012
Pon2	155.59475	0.00998127	0.42209574	0.02364694	0.98113423	0.99148577
Kcna6	3.41581806	0.00996533	0.34545439	0.02884703	0.97698659	NA
Fbxo15	29767.435	0.00988338	0.18635885	0.05303414	0.95770471	0.98460749
Pde7a	3741.65791	0.00987223	0.2165882	0.04558065	0.96364449	0.98668128
Mtmr10	1887.78108	0.00974105	0.16721462	0.05825477	0.95354569	0.98295517
Dhx8	6662.31011	0.00970675	0.23385497	0.04150754	0.96689128	0.98762454
Eaf2	111.085089	0.00955809	0.32941403	0.02901544	0.97685227	0.99086475
Snca	29.8128446	0.00951641	0.42715112	0.0222788	0.98222556	0.99185647
Polr1e	2904.80223	0.00945748	0.17864044	0.05294143	0.95777857	0.98460749
Rgl1	159.297995	0.00934499	0.28569647	0.03270949	0.97390626	0.98975179
E330017L17R	1.23055879	0.00923036	0.21442223	0.04304761	0.96566358	NA
Osmr	13.8580005	0.00922695	0.35564205	0.02594449	0.97930161	0.99113137
Larp6	14.8141596	0.009218	0.43217217	0.02132946	0.98298285	0.99229302
Tex22	1.49879893	0.00921686	0.25442365	0.03622641	0.97110183	NA
Atp6v1b2	15918.8566	0.00921626	0.19091794	0.04827341	0.96149834	0.98603672
Ebag9	876.515396	0.00917819	0.20612272	0.04452778	0.96448371	0.98668128
Nifk	7668.01142	0.00906521	0.17366021	0.05220083	0.95836867	0.98484816
Supt4a	2569.15621	0.00905403	0.23755547	0.03811331	0.96959734	0.98814768
Tprn	2001.9825	0.00891006	0.22874388	0.03895211	0.96892857	0.98798821

Lrat	9.72251482	0.00889088	0.42239145	0.0210489	0.98320665	0.99233168
Pole4	9105.03712	0.00884605	0.15190845	0.05823276	0.95356322	0.98295517
Gm1943	126.058501	0.00875407	0.29723312	0.02945185	0.97650422	0.99086475
Tmem171	8.58130149	0.00868326	0.36435764	0.02383169	0.98098686	0.99148577
Ciz1	1136.16013	0.00860379	0.19013126	0.04525182	0.96390659	0.98668128
Naaa	453.003685	0.00860182	0.2098536	0.0409896	0.96730419	0.98780003
Tnip2	1445.55071	0.0084522	0.18676464	0.04525587	0.96390336	0.98668128
Mapk1ip1	1058.25093	0.00843006	0.21172463	0.03981614	0.96823971	0.98780003
Copa	19194.7699	0.00841417	0.17072882	0.04928385	0.96069309	0.98579599
Kank3	4589.36006	0.00829494	0.25044378	0.03312095	0.97357814	0.98955288
Fnip2	4341.83323	0.00829016	0.25837835	0.03208534	0.97440399	0.98998135
Pou4f2	91.7014952	0.00814468	0.42144284	0.0193257	0.98458128	0.99301015
Ss18	9345.18997	0.00806696	0.1500588	0.05375866	0.95712745	0.9845304
Phax	4303.21246	0.00805114	0.17878634	0.04503221	0.96408163	0.98668128
Mfsd3	296.366606	0.00804336	0.23613282	0.03406284	0.97282704	0.98939312
Zc3h15	9843.46201	0.00803522	0.15194412	0.05288271	0.95782536	0.98460749
Rtel1	6641.48647	0.00785269	0.20667608	0.03799514	0.96969156	0.98814768
Ift57	1166.55598	0.0078525	0.23768439	0.03303749	0.97364469	0.98955288
Gprin1	3.3411679	0.00778867	0.36855384	0.02113307	0.9831395	NA
8430408G22I	1.55176678	0.00777151	0.28909443	0.02688225	0.97855365	NA
Ttll11	2.05702723	0.00766476	0.33286325	0.02302676	0.98162893	NA
Nxf1	12428.5099	0.00760734	0.17995687	0.04227316	0.96628094	0.98742915
Rpp21	1913.05535	0.00751502	0.25841566	0.02908112	0.97679989	0.99086475
BC028528	143.575327	0.00721506	0.35006199	0.02061081	0.98355612	0.99251303
Alg6	3687.05966	0.00718357	0.18059945	0.03977623	0.96827153	0.98780003
9230110C19F	189.730244	0.00714951	0.29818861	0.02397647	0.98087138	0.99148577
Mrpl24	7555.88351	0.00708853	0.19776139	0.03584387	0.97140685	0.98908845
Ttc18	62.5809647	0.00698376	0.40147129	0.01739541	0.98612117	0.99391862
AA413626	11.1642305	0.00697811	0.43199381	0.01615327	0.98711211	0.99433738
Capn10	1720.84755	0.00689822	0.21162732	0.03259607	0.9739967	0.98975179
Eml2	3783.02426	0.00689197	0.17993515	0.03830253	0.96944648	0.98814768
Tmem69	1351.94262	0.00685178	0.1679609	0.04079391	0.96746019	0.98780003
Zfp281	7514.14277	0.00681951	0.23743468	0.02872161	0.97708662	0.99086475
Prkag1	3498.17065	0.00677323	0.19185582	0.03530373	0.97183755	0.98920315
Golga1	1213.13475	0.00658254	0.24624976	0.02673114	0.97867417	0.99095946
Gareml	358.477299	0.00640729	0.32214041	0.01988975	0.98413132	0.99287831
Lrp1	6738.2653	0.00633128	0.26746317	0.02367159	0.98111457	0.99148577
Spg20	2364.57788	0.00630038	0.1706081	0.03692896	0.97054165	0.98862285
Mtx3	1239.93869	0.00626447	0.1998569	0.03134478	0.97499458	0.99040699
Mir365-2	1.10806344	0.0062195	0.18318955	0.03395117	0.97291609	NA
Anpep	260.94172	0.00613651	0.33896204	0.01810384	0.98555601	0.99354217

Ogdh	9151.25888	0.00613642	0.22867143	0.02683511	0.97859125	0.99095946
Adamts3	4.07506805	0.00606268	0.35555955	0.01705109	0.98639586	NA
Cbfa2t2	8632.65039	0.0060574	0.14741534	0.04109072	0.96722357	0.98780003
Slc22a15	14.5555629	0.00597893	0.43067852	0.01388257	0.98892366	0.99491218
Rab1b	5814.46705	0.00595542	0.17307396	0.03440966	0.97255048	0.98939312
Arfip1	3045.12921	0.00594742	0.17605823	0.033781	0.97305179	0.98940519
Plxnd1	282.7101	0.0059186	0.37049189	0.01597497	0.98725436	0.99435185
Ccdc59	2807.49548	0.00588999	0.17267108	0.03411104	0.97278861	0.98939312
Bmp4	80.0774989	0.00585514	0.33250055	0.0176094	NA	NA
Egfl8	21.6668974	0.00582098	0.43075943	0.01351329	0.98921828	0.99499143
Thap11	3122.51443	0.00581409	0.1999315	0.02908041	0.97680046	0.99086475
6430710C18F	4.61468523	0.00579545	0.36345918	0.01594527	0.98727806	NA
Tcam1	32.8294438	0.00567637	0.39746527	0.01428142	0.98860546	0.99491218
Bcl2l12	830.991128	0.0056171	0.26131386	0.02149562	0.9828503	0.99223221
Osbp12	1551.03326	0.00559902	0.16163724	0.03463944	0.97236725	0.98936861
Diap1	8667.14687	0.00552907	0.23448633	0.02357948	0.98118804	0.99148577
Gm10012	1.12739162	0.005515	0.20796903	0.02651837	0.97884388	NA
Ap2a1	9781.73833	0.00544098	0.19255595	0.02825663	0.97745747	0.99086475
Sf3b4	2785.00883	0.00541178	0.26095551	0.02073834	0.98345439	0.99251303
Bzw1	38139.4665	0.00539729	0.18835408	0.02865501	0.97713974	0.99086475
Lrrk2	50.7827235	0.00539331	0.4267317	0.01263865	0.98991608	0.99549745
A630023P12F	5.72788386	0.0053853	0.34284055	0.01570787	0.98746744	NA
Gckr	7.75142438	0.00532721	0.37278017	0.0142905	0.98859822	0.99491218
Nars2	1283.41552	0.00525115	0.21607587	0.02430234	0.98061144	0.99144975
Rmi1	4420.46323	0.00523854	0.19216288	0.02726093	0.97825162	0.99086764
Mir425	5.09764934	0.005191	0.40513958	0.01281286	0.9897771	NA
Eif4ebp2	6859.09579	0.00517763	0.25154096	0.02058363	0.9835778	0.99251303
Nrtn	202.152126	0.00513311	0.33374708	0.01538024	0.98772882	0.9947653
Map1b	5637.18366	0.00511259	0.26407979	0.01936003	0.9845539	0.99301015
Fkbp8	11625.0219	0.00504754	0.18919398	0.02667916	0.97871564	0.99095946
Slc50a1	1387.47132	0.00499819	0.27496315	0.01817767	0.98549712	0.99354217
Stk38l	1881.93515	0.00498106	0.20016007	0.02488538	0.98014639	0.99136628
2310011J03R	1325.66879	0.00494521	0.21376455	0.02313393	0.98154344	0.99155399
Specc1l	5718.3661	0.00487042	0.20565521	0.02368247	0.98110589	0.99148577
Nucb1	5658.48356	0.00486829	0.14304834	0.03403245	0.97285127	0.98939312
Ap1f	1330.65099	0.00484966	0.21923884	0.02212044	0.98235188	0.99191962
Dscaml1	90.9053592	0.00483594	0.32175237	0.01503	0.98800825	0.99479295
H3f3a	7617.83282	0.00471845	0.16188556	0.02914685	0.97674747	0.99086475
Rrnad1	952.848411	0.00468542	0.18404095	0.02545857	0.9796892	0.99131827
Acd	1517.98793	0.00463292	0.24313644	0.01905481	0.98479738	0.99316369
Thrap3	11783.8271	0.0046019	0.21279632	0.02162582	0.98274644	0.99223221

Ocrl	4578.88931	0.00459187	0.16279393	0.02820664	0.97749734	0.99086475
Mkln1os	10.8650007	0.00441901	0.43227225	0.01022276	0.99184356	0.99671465
Nrd1	11208.4395	0.00441362	0.16039159	0.02751777	0.97804677	0.99086475
Gm614	3.12732622	0.00439746	0.33772402	0.01302088	0.98961113	NA
Spock2	396.422301	0.00439351	0.23626574	0.01859564	0.98516368	0.99346867
Fus	31979.6737	0.00435568	0.17247412	0.02525411	0.97985228	0.9913267
Hspb11	960.935142	0.00428096	0.3068841	0.01394975	0.98887007	0.99491218
1700084E18F	14.1265671	0.00426398	0.43220518	0.00986564	0.99212849	0.99683445
Inpp5b	2724.32928	0.00405418	0.16554711	0.0244896	0.98046208	0.9914456
Gbf1	3460.6779	0.00402036	0.24596607	0.01634519	0.98695901	0.99431196
Egln2	2940.30499	0.00398584	0.23225857	0.01716122	0.986308	0.99395986
Ampd3	1386.17927	0.00395504	0.28056007	0.01409696	0.98875263	0.99491218
Trappc2l	1325.52373	0.00392595	0.24494148	0.01602811	0.98721197	0.99435185
Trappc4	3223.68821	0.00382031	0.19324087	0.01976967	0.98422711	0.99291053
Fbxo16	67.7708852	0.00368925	0.37879523	0.00973943	0.99222918	0.9968445
Noc4l	5051.62346	0.00350684	0.21581314	0.01624943	0.9870354	0.99432451
Hsd17b3	37.8276603	0.00348934	0.41980091	0.0083119	0.99336814	0.99718992
Skint4	2.82671862	0.00347595	0.335178	0.01037047	0.99172571	NA
9530051G07l	7.48358353	0.00346101	0.41989851	0.00824249	0.99342352	0.99718992
Tmem65	1829.6922	0.00344564	0.24465159	0.01408385	0.98876308	0.99491218
Bcl7b	1253.67421	0.00342375	0.20802676	0.01645822	0.98686883	0.99428554
Cachd1	1697.35108	0.00318804	0.28694692	0.01111102	0.99113552	0.99626065
Ganab	28275.5966	0.0030093	0.17983876	0.01673331	0.98664937	0.99419325
Leprel1	6.4506687	0.00283647	0.40498025	0.00700396	0.99441169	0.99781238
Ptprb	5.51486876	0.00279423	0.41405956	0.00674837	0.99461562	NA
Rps13	33362.8813	0.00271238	0.18719223	0.01448982	0.9884392	0.99490084
Fdx1l	72.6212792	0.00271218	0.32846152	0.00825722	0.99341177	0.99718992
Clec2d	4.79317586	0.00269655	0.38090817	0.00707925	0.99435162	NA
Dll3	89.7098415	0.00251428	0.3776387	0.0066579	0.99468781	0.99802504
4930528D03l	7.55763185	0.00244942	0.42312501	0.00578888	0.99538117	0.99823872
Ctnna1	38138.8489	0.00243319	0.17588283	0.01383416	0.98896229	0.99491218
Eif1b	1291.92465	0.00242176	0.2212893	0.01094387	0.99126823	0.99632964
Nags	44.6478904	0.00235268	0.41516246	0.0056669	0.99547849	0.99823872
Klhl20	2603.88631	0.00234485	0.19740028	0.01187867	0.99052241	0.99577527
Rab2b	2078.182	0.0022611	0.21518772	0.01050759	0.99161631	0.99661509
C230091D08l	0.63766462	0.00225096	0.17839267	0.01261802	0.98993255	NA
Cml1	49.9006425	0.0022457	0.35471093	0.00633106	0.99494858	0.99815789
Maea	6911.74896	0.00223186	0.15945179	0.0139971	0.98883229	0.99491218
1810030O07l	3081.66238	0.00213662	0.15707523	0.01360249	0.98914711	0.99499143
E2f7	1350.66642	0.00210525	0.22863732	0.00920782	0.99265332	0.99694858
Usp2	548.883466	0.00209255	0.2325858	0.00899688	0.99282163	0.99705322

Dyrk2	452.840032	0.00208446	0.24853185	0.00838711	0.99330814	0.99718992
Jmjd1c	6874.14943	0.00198476	0.24829876	0.00799344	0.99362222	0.99718992
1700016C15F	2.23959592	0.00177266	0.27818461	0.00637224	0.99491572	NA
Mttd	193.970314	0.00169792	0.33243884	0.00510747	0.99592485	0.99830259
Irx4	7.01907724	0.00165953	0.41716849	0.00397807	0.99682597	0.99888141
C1ql1	181.488848	0.00161831	0.27437952	0.00589806	0.99529406	0.99823872
Zfp92	9.1414096	0.00151942	0.41852588	0.00363042	0.99710335	0.99888883
15-Sep	14616.4681	0.00150608	0.17335575	0.00868782	0.99306821	0.99711969
4933413J09R	1.91916427	0.00144544	0.29506054	0.0048988	0.99609134	NA
Tpcn1	1534.07077	0.00140138	0.17644696	0.0079422	0.99366311	0.99718992
Itgb3bp	910.654714	0.00140036	0.29497853	0.00474732	0.9962122	0.99845939
Gm561	531.844472	0.00134607	0.26371175	0.00510433	0.99592736	0.99830259
Esp4	9.85250305	0.00128534	0.3759277	0.0034191	0.99727196	0.99888883
Kcnq3	3.00599103	0.00123293	0.36210074	0.00340493	0.99728327	NA
Bhmt2	1282.26344	0.0011377	0.39316691	0.00289368	0.99769118	0.99904028
Slc25a28	1795.38823	0.00110116	0.17926113	0.00614276	0.99509882	0.99823872
Pou3f3	83.5655273	0.00105571	0.34027265	0.00310255	0.99752453	0.99893773
Igfbp2	31999.1764	0.00103869	0.32016373	0.00324425	0.99741146	0.99888883
Gata5	0.63050887	0.00100524	0.17828653	0.00563834	0.99550128	NA
Csf2rb	0.63050887	0.00100524	0.17828653	0.00563834	0.99550128	NA
Ythdf1	9254.47278	0.00096439	0.18696254	0.00515818	0.99588439	0.99830259
Otogl	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
Ccdc105	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
Acot5	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
Dcpp2	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
Mir6946	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
Lrrc43	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
Obox3	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
1700003L19F	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
Ces2f	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
Olf1347	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
Cntn6	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
Rnf138rt1	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
Olf1411	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
Mir429	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
1700012L04F	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
Car1	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
Nr5a1	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
Mir763	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
Psg22	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
Spata4	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA

Gm15328	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
D17Ertd648e	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
Mettl7a2Higc	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
Fxyd7	0.31883231	0.00095228	0.16847402	0.00565238	0.99549008	NA
Rbpj	7358.64831	0.00080389	0.20998644	0.00382829	0.99694548	0.99888883
Slc25a37	2079.00436	0.00072902	0.21417367	0.00340388	0.9972841	0.99888883
Zdbf2	4378.70016	0.00061572	0.3124997	0.00197031	0.99842792	0.9993919
Mettl17	1519.918	0.0005792	0.21930852	0.00264102	0.99789277	0.99911348
Lphn3	29.5245953	0.0005576	0.43213474	0.00129034	0.99897045	0.99944524
Tspan2	824.980164	0.0005454	0.34385085	0.00158616	0.99873443	0.99942685
Asb2	63.5506858	0.00050221	0.35430188	0.00141745	0.99886904	0.99944524
Rab5a	5603.32968	0.00044498	0.19060839	0.00233454	0.99813731	0.99922964
Kiss1r	8.0921293	0.00043811	0.43027152	0.00101822	0.99918758	0.99957324
4930402H24I	1451.02852	0.00033274	0.2183622	0.00152381	0.99878418	0.99942685
Hnrnpa0	19611.209	0.00031068	0.17956095	0.00173021	0.99861949	0.99942685
Lcmt1	4083.91353	0.00030914	0.18525918	0.00166867	0.99866859	0.99942685
Dnah1	26.9788517	0.00030376	0.43068655	0.00070528	0.99943727	0.99966252
Serpib5	23.5139489	0.00027702	0.41678212	0.00066467	0.99946967	0.99966252
Brd2	20193.8768	0.0002551	0.20259758	0.00125913	0.99899536	0.99944524
Prok1	0.9350297	0.00010611	0.18196712	0.00058314	0.99953472	NA
Mkrn3	395.36426	4.06E-05	0.24666756	0.00016474	0.99986856	0.99986856
Kalrn	1246.51519	3.67E-05	0.21803889	0.0001685	0.99986556	0.99986856
Nudt12	481.714681	-0.0001528	0.31994943	-0.0004775	0.99961901	0.99974759
Fam173a	749.567316	-0.0002443	0.28505997	-0.0008569	0.99931627	0.99963767
Vmn2r94	0.62335313	-0.0002585	0.17817871	-0.0014508	0.99884242	NA
Zp4-ps	0.62335313	-0.0002585	0.17817871	-0.0014508	0.99884242	NA
Syt8	0.62335313	-0.0002585	0.17817871	-0.0014508	0.99884242	NA
Pramef12	5487.48035	-0.0002935	0.18648353	-0.0015739	0.99874422	0.99942685
Rbm22	4132.60295	-0.000332	0.16765063	-0.0019806	0.99841973	0.9993919
Pcdhb14	2.22819982	-0.0005276	0.283374	-0.0018617	0.9985146	NA
Cstf3	8086.06594	-0.000554	0.14992721	-0.0036954	0.99705154	0.99888883
Efcab7	427.094731	-0.0007207	0.26072351	-0.0027641	0.99779454	0.99907944
Rps20	84025.4583	-0.0007562	0.23085484	-0.0032758	0.99738627	0.99888883
4931406P16F	4537.71613	-0.0007794	0.22753521	-0.0034254	0.99726692	0.99888883
Eif2b4	6139.40104	-0.0007968	0.19921138	-0.0039997	0.99680872	0.99888141
Spata5	4920.94778	-0.0008523	0.15699184	-0.0054287	0.99566851	0.99830052
Kptn	769.93793	-0.0009647	0.22041654	-0.0043765	0.99650806	0.99869156
Osgep	4475.73739	-0.0010015	0.28119878	-0.0035614	0.99715843	0.99888883
Bcl2a1d	0.31167657	-0.0010229	0.16815827	-0.0060832	0.99514631	NA
1700011A15f	0.31167657	-0.0010229	0.16815827	-0.0060832	0.99514631	NA
4930480G23I	0.31167657	-0.0010229	0.16815827	-0.0060832	0.99514631	NA

2310001K24F	0.31167657	-0.0010229	0.16815827	-0.0060832	0.99514631	NA
B020004C17f	0.31167657	-0.0010229	0.16815827	-0.0060832	0.99514631	NA
Cldn16	0.31167657	-0.0010229	0.16815827	-0.0060832	0.99514631	NA
Gm16675	0.31167657	-0.0010229	0.16815827	-0.0060832	0.99514631	NA
1700112E06F	0.31167657	-0.0010229	0.16815827	-0.0060832	0.99514631	NA
9830166K06F	0.31167657	-0.0010229	0.16815827	-0.0060832	0.99514631	NA
Itgax	0.31167657	-0.0010229	0.16815827	-0.0060832	0.99514631	NA
Gata5os	0.31167657	-0.0010229	0.16815827	-0.0060832	0.99514631	NA
Nkx3-2	0.31167657	-0.0010229	0.16815827	-0.0060832	0.99514631	NA
Kcnip1	0.31167657	-0.0010229	0.16815827	-0.0060832	0.99514631	NA
Olf983	0.31167657	-0.0010229	0.16815827	-0.0060832	0.99514631	NA
Glipr1l2	0.31167657	-0.0010229	0.16815827	-0.0060832	0.99514631	NA
U90926	0.31167657	-0.0010229	0.16815827	-0.0060832	0.99514631	NA
Has1	0.31167657	-0.0010229	0.16815827	-0.0060832	0.99514631	NA
Cln3	1366.11376	-0.0010304	0.19345839	-0.0053265	0.99575012	0.99830259
Zxdc	1967.83753	-0.0010427	0.19096399	-0.0054601	0.99564347	0.99830052
Il2rb	9.59980791	-0.0010472	0.42899055	-0.0024411	0.99805231	0.99920887
Rpap3	3130.97712	-0.0010635	0.21270116	-0.005	0.99601061	0.99832169
Zfp422	1317.10117	-0.0012029	0.2012037	-0.0059783	0.99523	0.99823872
Naa60	1898.95488	-0.0012055	0.19963771	-0.0060386	0.99518189	0.99823872
9930111H07l	0.61795904	-0.0012608	0.17809308	-0.0070796	0.99435136	NA
Gm6086	0.61795904	-0.0012608	0.17809308	-0.0070796	0.99435136	NA
Rgag1	0.61795904	-0.0012608	0.17809308	-0.0070796	0.99435136	NA
Lin7a	0.61795904	-0.0012608	0.17809308	-0.0070796	0.99435136	NA
Cfi	0.61795904	-0.0012608	0.17809308	-0.0070796	0.99435136	NA
Capzb	16179.3721	-0.0013585	0.16887354	-0.0080445	0.99358149	0.99718992
Sowahc	580.910598	-0.0014265	0.21868194	-0.006523	0.99479543	0.99806863
Cdc37l1	5388.62264	-0.0015178	0.16472439	-0.0092144	0.99264804	0.99694858
Ppp2r1a	19773.4509	-0.001555	0.19362219	-0.008031	0.99359229	0.99718992
4921506M07	2.16934844	-0.0017179	0.3187254	-0.00539	0.99569944	NA
Slc25a5	28072.8479	-0.0017661	0.17961979	-0.0098323	0.99215508	0.99683445
Ankrd12	1303.73603	-0.0018397	0.23953473	-0.0076803	0.99387207	0.99733526
Mir1964	0.92963561	-0.0018419	0.22709528	-0.0081108	0.99352861	NA
4930473A02f	0.92963561	-0.0018419	0.22709528	-0.0081108	0.99352861	NA
Maml2	1489.07676	-0.0020595	0.23442326	-0.0087856	0.99299021	0.99711969
Pou5f1	56696.7439	-0.0021651	0.17933514	-0.012073	0.99036736	0.99577527
Ints1	6211.92875	-0.002257	0.24102443	-0.0093642	0.99252858	0.99694858
Vapb	3916.34676	-0.0023956	0.1600789	-0.0149653	0.98805989	0.99479295
Arap3	22.4056819	-0.0024554	0.43214885	-0.0056819	0.99546656	0.99823872
Cript	3183.16968	-0.002457	0.20055095	-0.012251	0.99022535	0.99573193
D830030K20l	0.6108033	-0.0025583	0.17798215	-0.0143737	0.98853181	NA

4930404H11I	0.6108033	-0.0025583	0.17798215	-0.0143737	0.98853181	NA
Dlx1as	0.6108033	-0.0025583	0.17798215	-0.0143737	0.98853181	NA
2410127L17F	848.222329	-0.0027125	0.22996082	-0.0117957	0.99058861	0.99577527
Plcg1	4620.88238	-0.0027491	0.23169747	-0.0118649	0.99053338	0.99577527
Ptger2	5.02816918	-0.0028112	0.38833889	-0.007239	0.99422418	NA
Erp44	5565.31694	-0.0028253	0.18904753	-0.0149449	0.98807613	0.99479295
Pkd2l1	2910.69661	-0.0028352	0.21437759	-0.0132251	0.98944821	0.99514352
Klhl4	0.99790636	-0.002985	0.20162473	-0.0148047	0.98818802	NA
Efemp2	674.336862	-0.0031849	0.21748693	-0.0146441	0.98831612	0.99484135
BC061237	1.27594326	-0.003215	0.24695551	-0.0130186	0.98961295	NA
Gsk3a	5443.75813	-0.0032611	0.16144289	-0.0201995	0.98388424	0.99275784
Acp2	1586.6576	-0.0033232	0.20168956	-0.0164769	0.98685397	0.99428554
Mrpl27	1591.66054	-0.0033668	0.22935662	-0.0146794	0.98828794	0.99484135
Cys1	0.95711095	-0.0034278	0.19969529	-0.0171653	0.98630477	NA
H2-Q5	2.77459535	-0.0034497	0.28923949	-0.0119269	0.99048393	NA
Usp16	4262.96214	-0.0034715	0.15475338	-0.0224327	0.98210283	0.99185647
Fam203a	953.474966	-0.0035367	0.19448282	-0.0181853	0.98549103	0.99354217
Chn1	2692.72071	-0.0035794	0.20119287	-0.0177909	0.9858057	0.99372947
Irs4	8.5903525	-0.0036676	0.42287854	-0.0086728	0.99308017	0.99711969
A230056P14I	3.69145059	-0.0036873	0.37748329	-0.0097682	0.99220621	NA
Ube2g1	6682.60873	-0.0037426	0.17606501	-0.0212569	0.98304072	0.99229302
Ccna1	50.605353	-0.0037553	0.40138843	-0.0093557	0.99253534	0.99694858
Ext2	4226.99775	-0.0038033	0.20881509	-0.0182139	0.98546818	0.99354217
D930015M0E	1.22876235	-0.0038355	0.24454784	-0.0156839	0.98748656	NA
Pappa2	1.30958293	-0.0039253	0.24797608	-0.0158292	0.98737068	NA
Slc25a39	14794.5537	-0.0039754	0.18773576	-0.0211753	0.98310579	0.99229429
Rgs22	103.677968	-0.003979	0.3878959	-0.0102579	0.99181552	0.99671465
Doc2g	142.033023	-0.0039855	0.31571926	-0.0126235	0.98992814	0.99549745
Galnt15	0.90993004	-0.0039993	0.19730172	-0.0202701	0.98382788	NA
Msh4	59.3138567	-0.0040167	0.40218219	-0.0099874	0.99203137	0.99683445
Gm5544	0.64543439	-0.0040597	0.1785051	-0.0227429	0.98185535	NA
Qrfpr	2.46847517	-0.0041361	0.32846364	-0.0125921	0.9899532	NA
Ank1	33.7407816	-0.0041578	0.4309239	-0.0096485	0.99230175	0.996853
Gm14207	0.65259013	-0.0041621	0.20598297	-0.0202061	0.98387897	NA
D030045P18I	0.65259013	-0.0041621	0.20598297	-0.0202061	0.98387897	NA
1700015F17F	0.65259013	-0.0041621	0.20598297	-0.0202061	0.98387897	NA
Upk1b	1.83240991	-0.0041661	0.2375943	-0.0175347	0.98601009	NA
2310045N01I	792.576686	-0.0041915	0.31059709	-0.0134948	0.98923301	0.99499143
AI847159	2.87088113	-0.0042952	0.36530513	-0.0117578	0.99061884	NA
Ccdc25	4616.63125	-0.0043374	0.17727498	-0.0244673	0.98047983	0.9914456
BC048644	3.4233225	-0.0044048	0.38731433	-0.0113726	0.99092621	NA

Asns	79441.0241	-0.0044832	0.16179057	-0.0277098	0.97789359	0.99086475
Kcna3	1.65765223	-0.0044981	0.25887026	-0.0173758	0.9861368	NA
Brf1	1308.02288	-0.0045062	0.20966636	-0.0214924	0.98285287	0.99223221
Foxj1	41.0571096	-0.0045673	0.38345361	-0.0119108	0.99049675	0.99577527
Homer1	2347.91759	-0.0046201	0.27012183	-0.0171038	0.98635384	0.99395986
Rabgef1	2492.24056	-0.0046517	0.19336879	-0.0240563	0.98080772	0.99148577
Polr2j	3320.63184	-0.0046569	0.18293068	-0.0254574	0.97969013	0.99131827
Elac1	491.739241	-0.0046647	0.20390755	-0.0228763	0.98174894	0.99166556
Dcpp1	0.29912674	-0.004686	0.16757051	-0.0279643	0.97769064	NA
Gm4489	0.29912674	-0.004686	0.16757051	-0.0279643	0.97769064	NA
Ccdc83	0.29912674	-0.004686	0.16757051	-0.0279643	0.97769064	NA
Sult1b1	0.29912674	-0.004686	0.16757051	-0.0279643	0.97769064	NA
Insm2	0.29912674	-0.004686	0.16757051	-0.0279643	0.97769064	NA
Nlrp1c-ps	0.29912674	-0.004686	0.16757051	-0.0279643	0.97769064	NA
Gm12060	0.29912674	-0.004686	0.16757051	-0.0279643	0.97769064	NA
Gm1647	0.29912674	-0.004686	0.16757051	-0.0279643	0.97769064	NA
Mir1896	0.29912674	-0.004686	0.16757051	-0.0279643	0.97769064	NA
Noto	0.29912674	-0.004686	0.16757051	-0.0279643	0.97769064	NA
Scarna3a	0.29912674	-0.004686	0.16757051	-0.0279643	0.97769064	NA
Bmx	0.29912674	-0.004686	0.16757051	-0.0279643	0.97769064	NA
Slc16a7	0.29912674	-0.004686	0.16757051	-0.0279643	0.97769064	NA
1700112H15I	0.29912674	-0.004686	0.16757051	-0.0279643	0.97769064	NA
Oca2	0.29912674	-0.004686	0.16757051	-0.0279643	0.97769064	NA
Agbl4	0.29912674	-0.004686	0.16757051	-0.0279643	0.97769064	NA
Cldn1	0.67907405	-0.0047035	0.17987631	-0.0261487	0.97913875	NA
E130310I04R	0.67907405	-0.0047035	0.17987631	-0.0261487	0.97913875	NA
Mir15a	0.67907405	-0.0047035	0.17987631	-0.0261487	0.97913875	NA
Vmn2r13	0.67907405	-0.0047035	0.17987631	-0.0261487	0.97913875	NA
Poll	1349.78506	-0.0047772	0.19057827	-0.0250668	0.9800017	0.99134999
Ngf	5.11114134	-0.0048284	0.36511809	-0.0132242	0.98944889	NA
Stk10	1267.33945	-0.0048562	0.20761882	-0.02339	0.98133917	0.99148577
Dctn3	2328.4614	-0.0048577	0.20783786	-0.0233727	0.98135298	0.99148577
Kif2b	0.34091356	-0.0048955	0.16939899	-0.028899	0.97694513	NA
Stmn1-rs1	0.34091356	-0.0048955	0.16939899	-0.028899	0.97694513	NA
Npy2r	0.34091356	-0.0048955	0.16939899	-0.028899	0.97694513	NA
2210019I11R	0.34091356	-0.0048955	0.16939899	-0.028899	0.97694513	NA
Calm5	0.34091356	-0.0048955	0.16939899	-0.028899	0.97694513	NA
1810064F22F	0.34091356	-0.0048955	0.16939899	-0.028899	0.97694513	NA
C430002N11I	0.34091356	-0.0048955	0.16939899	-0.028899	0.97694513	NA
Ccl17	0.34091356	-0.0048955	0.16939899	-0.028899	0.97694513	NA
Gm5441	0.34091356	-0.0048955	0.16939899	-0.028899	0.97694513	NA

Cplx3	0.34091356	-0.0048955	0.16939899	-0.028899	0.97694513	NA
Olf1424	0.34091356	-0.0048955	0.16939899	-0.028899	0.97694513	NA
Trem2	0.34091356	-0.0048955	0.16939899	-0.028899	0.97694513	NA
Speer4c	0.34091356	-0.0048955	0.16939899	-0.028899	0.97694513	NA
St8sia3os	0.34091356	-0.0048955	0.16939899	-0.028899	0.97694513	NA
Areg	0.34091356	-0.0048955	0.16939899	-0.028899	0.97694513	NA
Mir6364	0.34091356	-0.0048955	0.16939899	-0.028899	0.97694513	NA
Vmn1r32	0.34091356	-0.0048955	0.16939899	-0.028899	0.97694513	NA
B430010I23R	0.34091356	-0.0048955	0.16939899	-0.028899	0.97694513	NA
Mir374	0.34091356	-0.0048955	0.16939899	-0.028899	0.97694513	NA
6430503K07F	0.59825347	-0.0049196	0.17777982	-0.0276726	0.97792331	NA
Gm1527	0.59825347	-0.0049196	0.17777982	-0.0276726	0.97792331	NA
Luzp2	2.27836435	-0.004969	0.28050984	-0.0177141	0.98586697	NA
Asf1b	3588.97811	-0.0050403	0.22501214	-0.0224003	0.98212867	0.99185647
Zcchc4	851.104727	-0.0050517	0.21465928	-0.0235334	0.9812248	0.99148577
Myl6	8855.15034	-0.0050723	0.21546576	-0.0235409	0.9812188	0.99148577
9530091C08F	1.20905678	-0.0051888	0.21270205	-0.0243945	0.98053797	NA
C78339	1485.15132	-0.005208	0.20777691	-0.0250654	0.98000279	0.99134999
Usp40	1428.66286	-0.0053544	0.18113045	-0.0295612	0.97641704	0.99086475
Asb7	1834.34251	-0.0054125	0.17814081	-0.0303831	0.9757615	0.99061251
Ubp2l	16989.2908	-0.0055742	0.20120261	-0.0277046	0.97789774	0.99086475
AI463170	3.49698734	-0.0056856	0.385412	-0.014752	0.98823006	NA
Spg7	3391.00805	-0.0056926	0.18841958	-0.0302125	0.97589761	0.99061251
Guk1	3675.47335	-0.0056959	0.24447415	-0.0232985	0.98141215	0.99148577
Kbtbd2	2687.70064	-0.0057576	0.19942434	-0.0288709	0.97696758	0.99086475
Mxra7	343.601604	-0.0057774	0.29658881	-0.0194796	0.98445847	0.99301015
Dus4l	1067.19026	-0.0057805	0.23447382	-0.0246529	0.98033179	0.99142483
Tgm1	1977.60974	-0.0058104	0.3829503	-0.0151727	0.9878944	0.99479295
Ighmbp2	1064.94148	-0.0058483	0.19137271	-0.0305595	0.97562084	0.99061251
Mrpl54	2369.61431	-0.0058566	0.21417846	-0.0273444	0.97818504	0.99086475
Extl3	2980.5614	-0.0058924	0.21449508	-0.0274711	0.97808403	0.99086475
Atm	6734.99911	-0.0059097	0.24263093	-0.0243568	0.98056801	0.99144975
Yeats2	5095.24868	-0.0059172	0.21770094	-0.0271802	0.97831601	0.99086833
Hyal1	1167.70739	-0.0059246	0.25944464	-0.0228356	0.98178143	0.99166556
Zfp827	912.549999	-0.0060503	0.24453912	-0.0247415	0.98026114	0.99141785
Pde6d	1191.52605	-0.0061571	0.17903076	-0.0343912	0.97256516	0.98939312
Cacna2d3	10.2518677	-0.0061777	0.40988003	-0.0150719	0.98797484	0.99479295
Arhgef17	1846.99343	-0.0061833	0.2482727	-0.0249051	0.98013067	0.99136628
Myo1e	4845.47879	-0.006208	0.17868101	-0.0347432	0.97228449	0.98936861
Fcrlb	1.27054917	-0.0062212	0.276271	-0.0225185	0.98203439	NA
Ccny	5235.06567	-0.0062214	0.20874668	-0.0298034	0.97622382	0.99081429

4933411K20F	2227.22109	-0.0062638	0.18474092	-0.0339059	0.97295218	0.98940519
Irx5	20.0123875	-0.0063985	0.43227188	-0.014802	0.98819012	0.99484135
Wdr33	7895.98126	-0.0064296	0.17426393	-0.0368957	0.97056813	0.98862285
Eno1	3.12266465	-0.0064881	0.33345291	-0.0194574	0.98447624	NA
Il21r	0.67467138	-0.0064886	0.17956233	-0.0361355	0.97117433	NA
Ercc1	1322.96127	-0.0065336	0.24534649	-0.0266301	0.97875473	0.99095946
Mir6391	1.82701582	-0.0065417	0.26483229	-0.0247011	0.98029337	NA
Arl6	1297.35701	-0.0065532	0.19400636	-0.0337782	0.97305402	0.98940519
Mybphl	0.99350369	-0.0065598	0.23243769	-0.0282217	0.97748531	NA
Use1	4894.57721	-0.006588	0.22057811	-0.029867	0.97617315	0.99081429
Tsga10	161.046505	-0.0065889	0.25444143	-0.0258957	0.97934053	0.99113137
Brd1	9616.11204	-0.0066089	0.18543086	-0.0356409	0.97156872	0.98918736
Secisbp2	2337.31752	-0.0067023	0.18031883	-0.0371693	0.97035004	0.98859496
Acvr2a	1134.02144	-0.0068126	0.22341995	-0.0304924	0.97567438	0.99061251
Kin	1359.57505	-0.0068263	0.22049824	-0.0309583	0.97530279	0.99059066
Gm15850	0.33375782	-0.0068698	0.1691019	-0.040625	0.96759487	NA
Prss28	0.33375782	-0.0068698	0.1691019	-0.040625	0.96759487	NA
Gm10677	0.33375782	-0.0068698	0.1691019	-0.040625	0.96759487	NA
F13b	0.33375782	-0.0068698	0.1691019	-0.040625	0.96759487	NA
Ppfia2	0.33375782	-0.0068698	0.1691019	-0.040625	0.96759487	NA
Ccl5	0.33375782	-0.0068698	0.1691019	-0.040625	0.96759487	NA
Gm12	0.33375782	-0.0068698	0.1691019	-0.040625	0.96759487	NA
Rbm46os	0.33375782	-0.0068698	0.1691019	-0.040625	0.96759487	NA
Fabp7	0.33375782	-0.0068698	0.1691019	-0.040625	0.96759487	NA
3300005D01I	0.33375782	-0.0068698	0.1691019	-0.040625	0.96759487	NA
Gm16325	0.33375782	-0.0068698	0.1691019	-0.040625	0.96759487	NA
Gm3776	0.33375782	-0.0068698	0.1691019	-0.040625	0.96759487	NA
1700128F08F	0.33375782	-0.0068698	0.1691019	-0.040625	0.96759487	NA
Fendrr	0.33375782	-0.0068698	0.1691019	-0.040625	0.96759487	NA
Naga	2397.52606	-0.0069082	0.26409102	-0.0261586	0.97913086	0.99104816
Scpep1os	1.29978617	-0.0069386	0.25044323	-0.0277054	0.9778971	NA
Mir7090	0.6400403	-0.0070101	0.20503802	-0.0341893	0.97272624	NA
Gm14812	0.6400403	-0.0070101	0.20503802	-0.0341893	0.97272624	NA
Naa35	11680.9131	-0.0070311	0.1501776	-0.0468186	0.96265777	0.98660086
E2f6	1949.87877	-0.0070443	0.20693484	-0.034041	0.97284449	0.98939312
Leprel2	224.324139	-0.0071017	0.31776436	-0.022349	0.98216957	0.99185647
Ttr	0.66476257	-0.007161	0.17884064	-0.040041	0.96806046	NA
Mir127	0.66476257	-0.007161	0.17884064	-0.040041	0.96806046	NA
Adss	17040.9978	-0.0071939	0.15635627	-0.0460097	0.96330255	0.98665811
Nrde2	2805.49376	-0.0072018	0.20801865	-0.0346212	0.97238183	0.98936861
Plekha5	2694.33594	-0.0073103	0.21057567	-0.0347158	0.97230637	0.98936861

Pdzd11	2420.26622	-0.0073376	0.18247827	-0.0402106	0.96792526	0.98780003
Mthfd2l	40.3152079	-0.0073689	0.42254249	-0.0174395	0.98608603	0.99391862
Mir8091	12.7991678	-0.0073713	0.43005245	-0.0171404	0.98632459	0.99395986
Ube2k	9142.89902	-0.0073957	0.16746134	-0.0441637	0.96477391	0.98668128
Pdgfc	3152.63748	-0.0074118	0.28308349	-0.0261824	0.97911186	0.99104816
4933406J08R	527.12117	-0.007454	0.26840332	-0.0277718	0.97784418	0.99086475
Bfar	2103.79863	-0.0075568	0.19008194	-0.0397553	0.96828823	0.98780003
Actl6b	0.94456112	-0.0076628	0.23017907	-0.0332908	0.97344271	NA
F3	265.559918	-0.0076804	0.26706005	-0.0287592	0.97705664	0.99086475
Klhl6	0.66751564	-0.0076999	0.17881633	-0.0430602	0.96565358	NA
Map2k5	902.543076	-0.0077102	0.18982099	-0.0406185	0.96760006	0.98780003
Rfwd3	9825.66011	-0.007882	0.19882206	-0.0396432	0.96837755	0.98781497
Nphs1	2076.15454	-0.0078988	0.43146601	-0.018307	0.98539394	0.99354217
Mir20a	9.37220698	-0.0079069	0.40586997	-0.0194814	0.98445704	0.99301015
6030440G07I	4.66513665	-0.0079419	0.3757973	-0.0211334	0.98313922	NA
Gm6654	0.98634795	-0.0079606	0.23212697	-0.0342943	0.97264245	NA
Paccin1	654.45183	-0.0079683	0.40018869	-0.0199113	0.98411414	0.99287831
Rnase10	1.00127346	-0.0080202	0.18244147	-0.0439606	0.9649358	NA
Prl	1.00127346	-0.0080202	0.18244147	-0.0439606	0.9649358	NA
Ankrd63	1.55712608	-0.0080245	0.26148426	-0.0306882	0.97551817	NA
Qtrtd1	2825.73833	-0.0080408	0.19451913	-0.0413367	0.96702751	0.98766878
Rnpc3	2550.18418	-0.0080852	0.22197943	-0.036423	0.97094504	0.98881247
Mob4	4599.35758	-0.0080949	0.20055323	-0.0403628	0.96780392	0.98780003
Trrap	9964.08355	-0.0081119	0.28860699	-0.0281069	0.97757685	0.99086475
Wdr53	998.862693	-0.0081215	0.1869929	-0.0434324	0.96535687	0.9869787
Aimp2	3164.96089	-0.0081228	0.21443959	-0.0378793	0.96978393	0.98814768
Map3k2	1403.50556	-0.0081579	0.24470552	-0.0333377	0.97340525	0.98955288
Ces4a	0.67191831	-0.0081753	0.20744161	-0.0394099	0.96856356	NA
Rnu11	0.67191831	-0.0081753	0.20744161	-0.0394099	0.96856356	NA
4921513I03R	0.67191831	-0.0081753	0.20744161	-0.0394099	0.96856356	NA
Fam198a	0.67191831	-0.0081753	0.20744161	-0.0394099	0.96856356	NA
Lrrc8a	1458.84785	-0.0082976	0.24969402	-0.0332313	0.97349018	0.98955288
Gdf5	3.89527142	-0.0083064	0.36301686	-0.0228816	0.98174468	NA
Tbccd1	1829.01564	-0.0083299	0.16212076	-0.051381	0.95902192	0.98500986
Kdm5b	33055.1496	-0.0083494	0.18963871	-0.044028	0.9648821	0.98668128
1700031A10f	0.70115531	-0.0083747	0.18146099	-0.0461513	0.96318962	NA
Tmem255a	0.70115531	-0.0083747	0.18146099	-0.0461513	0.96318962	NA
Ppfia3	1006.60509	-0.0083988	0.27223227	-0.0308515	0.975388	0.99060705
Rmnd1	1.01998762	-0.008479	0.23124299	-0.0366669	0.97075059	NA
AA619741	0.95171687	-0.0084934	0.25718382	-0.0330246	0.97365499	NA
Rps28	13759.4983	-0.0085123	0.22271753	-0.0382201	0.96951217	0.98814768

Hemgn	0.63288456	-0.0086096	0.20448565	-0.0421039	0.96641589	NA
Slc28a2	0.63288456	-0.0086096	0.20448565	-0.0421039	0.96641589	NA
4930563D23I	0.63288456	-0.0086096	0.20448565	-0.0421039	0.96641589	NA
Mir3070b	0.63288456	-0.0086096	0.20448565	-0.0421039	0.96641589	NA
Sptlc1	2791.71901	-0.0086279	0.14593889	-0.05912	0.95285656	0.98295517
Cyp2a5	0.62033473	-0.0087148	0.17812367	-0.0489255	0.96097867	NA
Mir6897	0.62033473	-0.0087148	0.17812367	-0.0489255	0.96097867	NA
Pigo	2214.03772	-0.0087266	0.18844056	-0.0463095	0.96306354	0.98660086
Lag3	143.101957	-0.0087365	0.31703124	-0.0275573	0.97801521	0.99086475
Ppp1r35	1179.2817	-0.008765	0.24702167	-0.0354827	0.97169481	0.98918736
Pnmt	0.93916704	-0.0087887	0.22992642	-0.0382241	0.96950899	NA
Cul2	12977.5713	-0.0088206	0.23232109	-0.0379673	0.96971379	0.98814768
Pgap3	464.278313	-0.008834	0.22228761	-0.0397413	0.96829938	0.98780003
1700125H03I	1.0084292	-0.008851	0.20211817	-0.0437912	0.96507082	NA
Doc2a	161.536302	-0.0088792	0.34983165	-0.0253812	0.97975088	0.99131827
Lsm10	1115.90368	-0.008949	0.22418092	-0.0399185	0.9681581	0.98780003
Brpf1	3976.40167	-0.0089712	0.2285845	-0.0392466	0.96869381	0.98792827
Syt1	2.27902863	-0.0090184	0.27685856	-0.032574	0.97401434	NA
Kif7	977.326203	-0.0090333	0.2297576	-0.0393167	0.9686379	0.98792827
Gm6034	0.98095386	-0.0090714	0.23189386	-0.0391189	0.96879562	NA
Pot1a	5176.16765	-0.0091403	0.19549262	-0.0467551	0.96270838	0.98660086
Slc7a4	109.281823	-0.009211	0.33576854	-0.0274326	0.97811471	0.99086475
BC051537	2.7560435	-0.0092545	0.3371196	-0.0274516	0.97809953	NA
Csf3	1.98700738	-0.009317	0.27755397	-0.0335682	0.97322152	NA
Cand2	1932.73881	-0.0093651	0.21050168	-0.0444894	0.96451431	0.98668128
Frs3os	142.619433	-0.0093709	0.31927151	-0.0293508	0.97658478	0.99086475
Mtrr	4773.61893	-0.0093936	0.18278122	-0.0513925	0.95901272	0.98500986
Alpi	0.36024175	-0.0095019	0.17012155	-0.0558536	0.95545846	NA
4933433G08I	0.36024175	-0.0095019	0.17012155	-0.0558536	0.95545846	NA
4931429L15F	0.36024175	-0.0095019	0.17012155	-0.0558536	0.95545846	NA
Agtr1b	0.36024175	-0.0095019	0.17012155	-0.0558536	0.95545846	NA
Nxph2	0.36024175	-0.0095019	0.17012155	-0.0558536	0.95545846	NA
4921511C20F	0.36024175	-0.0095019	0.17012155	-0.0558536	0.95545846	NA
5930438M14	0.36024175	-0.0095019	0.17012155	-0.0558536	0.95545846	NA
lyd	0.36024175	-0.0095019	0.17012155	-0.0558536	0.95545846	NA
Klf11	2299.10748	-0.0095413	0.183665	-0.0519497	0.95856876	0.98484816
Bcap29	2977.51423	-0.0096609	0.1996537	-0.0483885	0.96140665	0.9860077
Pon1	1.00303512	-0.0096965	0.2018839	-0.0480303	0.96169211	NA
Figf	106.905643	-0.0098075	0.29662575	-0.0330634	0.97362403	0.98955288
Tbc1d12	711.921072	-0.0098079	0.20806789	-0.0471381	0.96240312	0.98657422
C1rb	1.34934277	-0.0098607	0.2193604	-0.0449521	0.96414546	NA

Foxs1	1.27556587	-0.0099351	0.24699936	-0.0402231	0.96791529	NA
Syndig1l	1.2185882	-0.0099421	0.21305886	-0.0466638	0.96278117	NA
Tmem50b	2187.03866	-0.0099648	0.16258715	-0.0612892	0.95112889	0.98234837
9530080O11l	0.65496581	-0.0099913	0.17863647	-0.0559309	0.95539686	NA
Rala	4819.58764	-0.0100464	0.18856729	-0.0532776	0.95751074	0.98460749
Faf2	5340.92315	-0.0100669	0.15654736	-0.0643058	0.94872673	0.98128695
Tapbp1	113.985489	-0.0100684	0.39726015	-0.0253445	0.9797802	0.99131827
Klhl15	504.455329	-0.0101219	0.27787167	-0.0364264	0.97094234	0.98881247
2310057M21	1267.88349	-0.0101415	0.17202323	-0.0589541	0.95298868	0.98295517
Ush1g	7.84429246	-0.0102273	0.3893172	-0.0262697	0.97904221	0.99104816
Mall	247.641104	-0.0102301	0.33776388	-0.0302878	0.9758375	0.99061251
Clip2	375.356361	-0.0102667	0.2475664	-0.0414707	0.96692069	0.98762454
R3hcc1l	1626.43463	-0.0103331	0.16276834	-0.0634834	0.94938157	0.98150429
Tfip11	3117.35054	-0.0103631	0.2351879	-0.0440631	0.96485411	0.98668128
Dnajc22	524.957075	-0.0103803	0.24610627	-0.042178	0.96635677	0.98743769
Mir669h	1.34394868	-0.0104016	0.21711785	-0.0479076	0.96178988	NA
Hmx2	4.72310867	-0.0104086	0.40218614	-0.02588	0.97935305	NA
9130011E15F	1555.32817	-0.0104916	0.22118957	-0.0474326	0.96216849	0.98652879
Gm3002	0.32120799	-0.010525	0.16854917	-0.0624446	0.95020879	NA
Mir3100	0.32120799	-0.010525	0.16854917	-0.0624446	0.95020879	NA
6030468B19f	0.32120799	-0.010525	0.16854917	-0.0624446	0.95020879	NA
Slc26a3	0.32120799	-0.010525	0.16854917	-0.0624446	0.95020879	NA
Nme8	0.32120799	-0.010525	0.16854917	-0.0624446	0.95020879	NA
Mir1932	0.32120799	-0.010525	0.16854917	-0.0624446	0.95020879	NA
Mir7048	0.32120799	-0.010525	0.16854917	-0.0624446	0.95020879	NA
Mir7044	0.32120799	-0.010525	0.16854917	-0.0624446	0.95020879	NA
Mir19b-1	0.32120799	-0.010525	0.16854917	-0.0624446	0.95020879	NA
Cdk7	7392.22675	-0.0105254	0.14261319	-0.0738038	0.94116649	0.97866806
Zfp646	4559.91129	-0.0105333	0.20644046	-0.0510235	0.95930677	0.98500986
Zscan21	2627.57217	-0.0105767	0.17511338	-0.0603994	0.95183755	0.98252684
Snapc3	1597.12994	-0.0106177	0.21242763	-0.0499829	0.96013602	0.98552159
Snord23	5.00720393	-0.010679	0.39916655	-0.0267533	0.97865648	NA
Zc3h10	1481.58535	-0.0107529	0.19276359	-0.0557829	0.95551474	0.98381504
Npbwr1	1.2800806	-0.0108239	0.25275144	-0.0428244	0.96584149	NA
Eif1ax	10576.1609	-0.0108396	0.1515679	-0.0715164	0.94298679	0.97951958
Tmem140	8.57113956	-0.0108816	0.41224933	-0.0263957	0.97894176	0.99104816
Crem	790.737012	-0.0109226	0.24528585	-0.0445301	0.96448183	0.98668128
Glud1	21713.5516	-0.0109679	0.19719309	-0.0556201	0.95564442	0.98381504
Bglap2	1.32952514	-0.0109896	0.21877975	-0.0502311	0.95993822	NA
Cacfd1	510.860602	-0.0109972	0.20180252	-0.054495	0.9565408	0.98405248
Rhot2	2869.97021	-0.0110006	0.19470634	-0.0564985	0.95494466	0.98369871

Sirpa	2078.44198	-0.0110116	0.20203017	-0.054505	0.95653286	0.98405248
Ugt1a6b	0.72048349	-0.0110359	0.17949492	-0.061483	0.95097454	NA
Katnal1	315.972598	-0.0111792	0.27606375	-0.0404951	0.96769843	0.98780003
Klhdc3	4722.25854	-0.0111916	0.21274628	-0.0526055	0.9580462	0.98476942
Mir7-1	51.1810473	-0.0112387	0.37925073	-0.029634	0.97635896	0.99086475
Ptp4a2	16384.9832	-0.0114469	0.18556369	-0.0616873	0.95081187	0.98220244
Mir183	0.353086	-0.0114715	0.16983871	-0.0675434	0.94614914	NA
Ppy	0.353086	-0.0114715	0.16983871	-0.0675434	0.94614914	NA
Tldc2	0.353086	-0.0114715	0.16983871	-0.0675434	0.94614914	NA
Plxna4os1	0.353086	-0.0114715	0.16983871	-0.0675434	0.94614914	NA
Prss46	0.353086	-0.0114715	0.16983871	-0.0675434	0.94614914	NA
Speer4e	0.353086	-0.0114715	0.16983871	-0.0675434	0.94614914	NA
Lrfn2	0.353086	-0.0114715	0.16983871	-0.0675434	0.94614914	NA
Cartpt	0.353086	-0.0114715	0.16983871	-0.0675434	0.94614914	NA
Gm2721	0.353086	-0.0114715	0.16983871	-0.0675434	0.94614914	NA
Pla2g2a	0.353086	-0.0114715	0.16983871	-0.0675434	0.94614914	NA
Etd	0.353086	-0.0114715	0.16983871	-0.0675434	0.94614914	NA
Mrpl38	4369.9095	-0.0114969	0.22623836	-0.0508176	0.95947089	0.98500986
Elk1	2209.43652	-0.01152	0.17136148	-0.0672264	0.94640147	0.98064294
LOC1012436	6.79457197	-0.0115742	0.42312644	-0.027354	0.97817742	0.99086475
Apoc1	3246.12849	-0.0116448	0.26454608	-0.044018	0.96489009	0.98668128
Zfp936	5608.97945	-0.0117512	0.24771085	-0.0474393	0.96216314	0.98652879
Btaf1	8263.482	-0.0117625	0.22603967	-0.0520372	0.95849909	0.98484816
Sar1b	3245.07194	-0.0117783	0.21150348	-0.0556882	0.95559019	0.98381504
Asb17os	0.63966291	-0.0117999	0.1784022	-0.066142	0.94726479	NA
Dda1	3192.08756	-0.0118244	0.19585107	-0.0603747	0.95185721	0.98252684
Wdr25	659.316347	-0.0118353	0.19505268	-0.0606773	0.95161621	0.9825112
Pkn1	3585.73453	-0.0118488	0.20296115	-0.0583798	0.95344607	0.98295517
Mcmbp	9550.73848	-0.0118888	0.17270137	-0.0688404	0.94511664	0.98022601
Tmem150b	0.96664238	-0.011907	0.23125302	-0.0514891	0.95893581	NA
AI504432	10.8127496	-0.0119227	0.39078478	-0.0305097	0.9756606	0.99061251
LOC1023085	2.63409137	-0.0120637	0.3242832	-0.037201	0.97032472	NA
Arhgef7	3270.81654	-0.0120811	0.24566381	-0.0491772	0.9607781	0.98581817
1810058I24R	3552.07247	-0.0122199	0.21500085	-0.0568365	0.95467543	0.98360661
Tank	859.362699	-0.0122425	0.2177788	-0.0562155	0.95517012	0.98369871
Prcc	4352.02995	-0.0122816	0.20620657	-0.0595595	0.95250644	0.98277785
Vamp1	209.291726	-0.012283	0.27862494	-0.0440844	0.96483711	0.98668128
Usp25	473.665247	-0.0123325	0.34881731	-0.0353551	0.97179657	0.98920315
Gm11541	0.64241598	-0.0123461	0.17845142	-0.0691845	0.94484278	NA
Dcdc2c	0.95849522	-0.0123699	0.23088571	-0.0535758	0.95727314	NA
Nxf7	207.656074	-0.0124314	0.31789374	-0.0391055	0.96880626	0.98792827

Fbxo45	2758.76446	-0.0125251	0.18620816	-0.0672639	0.94637164	0.98064294
Efcab4b	5.24896952	-0.0125289	0.38111554	-0.0328744	0.97377478	NA
Adam5	2.55167144	-0.0125539	0.34806296	-0.036068	0.97122812	NA
Fcf1	4243.59016	-0.0125653	0.19791634	-0.0634877	0.94937815	0.98150429
Gm12216	0.99852039	-0.0126116	0.23035129	-0.0547492	0.95633825	NA
Rps19bp1	1978.30111	-0.0127245	0.20084498	-0.0633549	0.94948394	0.98150429
Hist1h2aa	0.97104505	-0.0127315	0.25804792	-0.0493376	0.96065024	NA
Dyx1c1	219.959107	-0.0127622	0.25826221	-0.0494156	0.96058807	0.98577268
Acyp2	238.657478	-0.0128402	0.29777795	-0.04312	0.96560587	0.98699467
Ndufaf4	3608.7236	-0.0128508	0.19161573	-0.0670657	0.94652938	0.98071013
Mfsd9	130.359297	-0.0128671	0.27710804	-0.0464335	0.9629647	0.98660086
Mbd4	3080.20639	-0.0128901	0.17800059	-0.0724161	0.94227074	0.97906786
Pp2d1	0.69399957	-0.0128928	0.20903221	-0.0616786	0.95081876	NA
Catsper4	0.69399957	-0.0128928	0.20903221	-0.0616786	0.95081876	NA
Pi4kb	2976.24473	-0.0129852	0.17555707	-0.0739654	0.94103789	0.97866806
Plekhg2	908.949215	-0.0130094	0.3256647	-0.0399472	0.96813525	0.98780003
1700073E17F	1.01283187	-0.0130137	0.25973792	-0.0501032	0.96004017	NA
Ryk	5678.80967	-0.0130505	0.15397145	-0.084759	0.93245296	0.97430464
Neto2	424.14018	-0.0131454	0.40793683	-0.0322241	0.97429333	0.98995332
Nr2c2ap	3584.58347	-0.0131963	0.24755975	-0.0533055	0.95748848	0.98460749
8-Mar	1651.64736	-0.0132848	0.17533216	-0.0757691	0.93960276	0.97818197
Tmem81	439.199275	-0.0133849	0.28216725	-0.0474359	0.9621658	0.98652879
Stat2	4013.69177	-0.0133893	0.20298599	-0.0659616	0.94740839	0.98081963
Slc22a1	1.56214278	-0.0133908	0.26162716	-0.0511827	0.95917993	NA
Sbp	2.22288007	-0.0134048	0.28602163	-0.0468664	0.96261974	NA
Mir1898	15.9678039	-0.0134449	0.42229174	-0.031838	0.97460121	0.99007208
D630029K05I	1.26576912	-0.0134802	0.25231626	-0.0534257	0.95739273	NA
1700018L02F	1.26576912	-0.0134802	0.25231626	-0.0534257	0.95739273	NA
Mir3082	22.6164713	-0.0135091	0.41499371	-0.0325526	0.97403134	0.98975179
Cacna1f	0.70617201	-0.0135329	0.17931242	-0.0754711	0.93983986	NA
Smc2os	1.03216006	-0.0135671	0.23415688	-0.0579404	0.95379609	NA
Rpl31-ps12	0.97379812	-0.0135754	0.25815616	-0.0525861	0.95806167	NA
4930500J02R	5485.82459	-0.0136088	0.20554128	-0.0662096	0.94721098	0.98076289
Itfg2	1858.86548	-0.0137101	0.2136613	-0.0641672	0.94883706	0.9813358
Fam47e	0.95133948	-0.0138043	0.23055348	-0.0598745	0.95225556	NA
Dnajb5	844.511372	-0.0138389	0.25068656	-0.0552041	0.95597584	0.98400717
1-Sep	12057.1802	-0.0138658	0.27293923	-0.0508016	0.9594836	0.98500986
Ell	1761.46106	-0.0139082	0.22802416	-0.0609943	0.95136371	0.98235672
Gfm1	7558.07335	-0.0139278	0.17945985	-0.0776095	0.9381387	0.97735613
Nkd2	100.13647	-0.0139733	0.34734078	-0.0402295	0.96791016	0.98780003
Lpl	3528.67208	-0.0140221	0.24230676	-0.0578692	0.95385279	0.98312333

Prkar2b	230.16351	-0.0140324	0.39507329	-0.0355184	0.97166638	0.98918736
Mtch1	7176.41242	-0.0140491	0.19172122	-0.073279	0.94158411	0.97884715
Zkscan5	2182.01267	-0.014093	0.17138389	-0.0822304	0.93446349	0.97558305
Kremen1	1221.14611	-0.0141645	0.23474097	-0.060341	0.95188408	0.98252684
Cdnf	51.4240313	-0.0141749	0.36751411	-0.0385696	0.96923355	0.98810482
Arid3c	10.2027036	-0.0143277	0.43208768	-0.0331593	0.97354754	0.98955288
Prpf38a	9229.77441	-0.0143292	0.1676273	-0.0854825	0.93187781	0.97430464
Krt1	0.99587937	-0.0143444	0.23023847	-0.0623022	0.95032221	NA
Adprh	8519.41653	-0.0144288	0.21103452	-0.0683718	0.94548968	0.98027294
Elp4	1921.23036	-0.0146735	0.18652755	-0.0786668	0.93729766	0.97680712
Cdadcl1	1004.89979	-0.0147621	0.16863007	-0.0875412	0.93024131	0.97421931
Mir298	0.70077792	-0.0148822	0.18147997	-0.0820049	0.93464282	NA
Camta2	664.897157	-0.014948	0.26574155	-0.0562501	0.95514259	0.98369871
Mag	18.4698623	-0.0149756	0.42779467	-0.0350064	0.97207462	0.98936861
Sorl1	5392.76471	-0.0149768	0.24973714	-0.0599704	0.95217921	0.98262097
Mob3a	1909.07886	-0.0150717	0.183169	-0.0822832	0.93442151	0.97558305
Impdh2	20671.0938	-0.0150936	0.17747895	-0.0850445	0.932226	0.97430464
Csf1r	4.18686503	-0.0151139	0.35654139	-0.0423902	0.96618763	NA
Gm19510	0.34053617	-0.0151141	0.16931278	-0.0892671	0.92886961	NA
Mir6945	0.34053617	-0.0151141	0.16931278	-0.0892671	0.92886961	NA
Armc4	0.34053617	-0.0151141	0.16931278	-0.0892671	0.92886961	NA
Fezf2	0.34053617	-0.0151141	0.16931278	-0.0892671	0.92886961	NA
Gm136	0.34053617	-0.0151141	0.16931278	-0.0892671	0.92886961	NA
Gm5468	0.34053617	-0.0151141	0.16931278	-0.0892671	0.92886961	NA
D6Ertd474e	0.34053617	-0.0151141	0.16931278	-0.0892671	0.92886961	NA
Chodl	0.34053617	-0.0151141	0.16931278	-0.0892671	0.92886961	NA
Cnga2	0.34053617	-0.0151141	0.16931278	-0.0892671	0.92886961	NA
Mir7679	0.34053617	-0.0151141	0.16931278	-0.0892671	0.92886961	NA
Fam98a	4441.74707	-0.0151407	0.17586703	-0.0860918	0.93139347	0.97430464
Ndufs6	6036.10588	-0.0151578	0.21514722	-0.0704531	0.94383303	0.97986765
Tmem126b	988.49454	-0.0151968	0.22254973	-0.068285	0.94555877	0.98027294
Bdh2	101.51647	-0.0152125	0.37857109	-0.0401839	0.9679465	0.98780003
Dus2	1610.77943	-0.015239	0.17718883	-0.0860042	0.93146309	0.97430464
Psmc2	10100.9585	-0.0152428	0.18197337	-0.083764	0.93324407	0.97467283
Crnkl1	6022.90498	-0.0152462	0.17335853	-0.0879461	0.92991948	0.97394786
Elovl3	1.33679294	-0.0152539	0.24778862	-0.0615602	0.95091311	NA
C330006A16f	1833.39998	-0.0152895	0.19353658	-0.0790003	0.93703236	0.97680712
Hist1h2an	0.66174417	-0.0153015	0.17871726	-0.0856187	0.9317695	NA
Ago3	520.66514	-0.0153449	0.30056703	-0.0510531	0.95928322	0.98500986
AF366264	1.31471168	-0.0153716	0.27748442	-0.0553964	0.95582267	NA
9230112D13f	1.30993162	-0.0153756	0.21818882	-0.0704691	0.94382032	NA

Ppapdc1a	2.18010183	-0.0154173	0.30835589	-0.0499984	0.96012367	NA
Itgb2	16.3647839	-0.0155201	0.43178311	-0.0359443	0.97132678	0.98907169
B630005N14	2733.01508	-0.0155585	0.29337011	-0.0530337	0.95770505	0.98460749
Ddx24	7655.14165	-0.0156544	0.20403597	-0.0767239	0.9388432	0.97776256
Rufy3	3403.24774	-0.0156797	0.21959855	-0.0714016	0.94307812	0.97954902
Mon1b	826.416244	-0.0157367	0.2358116	-0.0667343	0.94679321	0.98072348
Aldh1a1	0.68144974	-0.0157492	0.20816767	-0.0756565	0.93969241	NA
Cd22	16.7120233	-0.0157745	0.43166588	-0.0365433	0.97084912	0.98881247
Slc38a7	3850.61159	-0.0157839	0.1558895	-0.1012507	0.91935144	0.96953982
Hunk	860.821492	-0.0157905	0.3497543	-0.0451475	0.96398977	0.98668128
Cdkn2aip	2153.26609	-0.0158061	0.22597801	-0.0699454	0.94423713	0.98001007
4933421I07R	1.00028204	-0.0160546	0.25926438	-0.0619235	0.95062372	NA
Nsun3	232.511163	-0.0160992	0.30770774	-0.0523199	0.95827378	0.98484816
Ddah1	5726.8436	-0.0161764	0.31800226	-0.050869	0.95942994	0.98500986
Sulf2	11973.0899	-0.016301	0.17733629	-0.0919213	0.92676057	0.97238317
Vps37a	3312.83987	-0.0163032	0.17945185	-0.0908502	0.92761165	0.97272899
Tmem178b	2.82569852	-0.016342	0.3265885	-0.0500384	0.96009181	NA
Tlk2	9424.29471	-0.0163595	0.16264102	-0.1005865	0.91987873	0.96963561
Gm14378	58.4023452	-0.0163986	0.395127	-0.0415022	0.96689554	0.98762454
Gm1322	7.33595333	-0.0164181	0.25164176	-0.0652439	0.94797981	0.98083012
Gpc1	1402.78241	-0.0164459	0.34809438	-0.0472454	0.96231763	0.98657422
Colgalt2	96.9363271	-0.0164659	0.43161797	-0.0381492	0.96956874	0.98814768
Gm15097	61.9384761	-0.0164789	0.42477344	-0.0387947	0.9690541	0.98805142
Mthfr	3374.16568	-0.0165021	0.23610316	-0.0698937	0.94427824	0.98001007
Stard3nl	4798.46716	-0.0165096	0.15054564	-0.109665	0.91267507	0.96715571
Ddrgk1	1743.23413	-0.016675	0.19650868	-0.0848565	0.9323755	0.97430464
Gba2	1170.27513	-0.0167127	0.25636179	-0.065192	0.94802111	0.98083012
Gpr152	1.0223633	-0.016724	0.23376026	-0.0715433	0.94296534	NA
Fam132b	271.614807	-0.0167399	0.36390667	-0.0460006	0.96330976	0.98665811
Trub1	2525.13696	-0.0167491	0.19387782	-0.0863898	0.93115657	0.97430464
Srpk2	5539.77142	-0.016763	0.18133419	-0.0924426	0.92634636	0.97229279
Wdr11	4314.71499	-0.0167665	0.19693677	-0.0851365	0.93215286	0.97430464
Spin4	304.202438	-0.0168701	0.30396265	-0.0555007	0.9557396	0.98382912
Fam104a	2030.46875	-0.01701	0.20827313	-0.0816715	0.93490796	0.97569448
Sat2	129.649055	-0.0170643	0.36671142	-0.0465334	0.96288511	0.98660086
Prmt10	2699.03954	-0.0170856	0.17394452	-0.0982244	0.92175413	0.97036275
Fam219a	71.4978684	-0.0170867	0.34015895	-0.0502314	0.95993798	0.98541128
Gh	3.92745079	-0.0171279	0.34535596	-0.049595	0.96044514	NA
1700020N01	44.1262686	-0.0171391	0.4030414	-0.0425243	0.96608073	0.98741514
Tmem95	5.03716092	-0.0171768	0.40748024	-0.0421538	0.96637611	NA
Tab2	6369.3517	-0.0171966	0.19066749	-0.0901913	0.92813517	0.97288637

Eef1b2	69967.1856	-0.017203	0.17359642	-0.0990978	0.92106063	0.97000537
Gtf2a1	2874.37507	-0.0173007	0.19081918	-0.0906652	0.92775866	0.97272899
Mir7092	0.674294	-0.0173537	0.20766193	-0.0835672	0.93340055	NA
3110035E14F	0.674294	-0.0173537	0.20766193	-0.0835672	0.93340055	NA
2010107E04F	7320.68892	-0.0173915	0.21756857	-0.0799356	0.93628844	0.97660618
Pcgf3	3455.22238	-0.0174043	0.2398199	-0.0725726	0.94214626	0.97906786
Zfp623	1049.38706	-0.0174572	0.19253407	-0.0906705	0.92775439	0.97272899
Sptbn4	1464.95219	-0.0175066	0.18984199	-0.0922165	0.92652606	0.97229279
Tmprss11e	1.28245628	-0.017537	0.24724939	-0.0709283	0.94345485	NA
Pex11b	2198.2111	-0.0175575	0.19902172	-0.088219	0.92970262	0.97385191
Efr3a	11543.2428	-0.0175764	0.17640634	-0.099636	0.92063334	0.96990703
Fgf16	1.94924584	-0.0175772	0.30836368	-0.0570016	0.9545439	NA
Apoa5	1.94924584	-0.0175772	0.30836368	-0.0570016	0.9545439	NA
Ccdc132	6156.77251	-0.0176029	0.18320786	-0.0960815	0.92345587	0.971175
Cacna1c	53.9153428	-0.0176187	0.38018299	-0.0463428	0.96303705	0.98660086
Syt15	1.06101967	-0.0177384	0.20446934	-0.0867532	0.93086771	NA
Metrn1	11.6329825	-0.0177842	0.42441079	-0.0419032	0.96657589	0.98759625
Sde2	6876.67791	-0.0177855	0.21638333	-0.0821946	0.93449201	0.97558305
Dohh	4455.16463	-0.0178351	0.20751867	-0.0859447	0.93151036	0.97430464
Ndst1	2788.74198	-0.0178368	0.27120771	-0.0657681	0.94756249	0.98081963
R3hdm4	2189.72646	-0.017851	0.23197923	-0.0769507	0.93866277	0.97770561
Trim41	4156.5109	-0.0178806	0.20008328	-0.0893656	0.92879138	0.97322517
Ube2v1	805.32453	-0.0179187	0.25366975	-0.0706379	0.94368591	0.97986765
Kcnk4	51.2679628	-0.0179477	0.42912502	-0.0418241	0.96663896	0.98759625
Snord42b	65.0197469	-0.0179695	0.35195744	-0.0510558	0.9592811	0.98500986
Ndufaf5	1695.40806	-0.0181017	0.18410612	-0.0983219	0.92167666	0.97034688
Tmem43	4389.63515	-0.0181523	0.22900424	-0.079266	0.93682101	0.97680712
Pdcd2l	2561.47248	-0.0181923	0.1699398	-0.1070517	0.91474794	0.96832729
Alkbh1	2521.05069	-0.0182465	0.19285502	-0.0946123	0.92462279	0.9714195
Nol10	6442.31594	-0.0182923	0.20037212	-0.0912919	0.92726067	0.97266045
Plekhg6	207.835062	-0.0183692	0.27946631	-0.0657296	0.9475931	0.98081963
Tm7sf2	1532.85327	-0.0183734	0.21910279	-0.0838573	0.93316985	0.97467283
Fat3	1.6793561	-0.0183834	0.29333772	-0.0626697	0.95002951	NA
Ifi27l2a	1.98211527	-0.0183879	0.30246895	-0.0607928	0.95152424	NA
Gm10433	17.9975895	-0.0183901	0.42098946	-0.0436831	0.965157	0.98686018
Zfp414	1362.81205	-0.0184728	0.18581082	-0.099417	0.9208072	0.96990703
Cyp2d26	1.31195861	-0.0184941	0.30360097	-0.0609158	0.95142626	NA
Theg	1.31195861	-0.0184941	0.30360097	-0.0609158	0.95142626	NA
Prmt8	820.058337	-0.0185663	0.41598933	-0.0446317	0.96440086	0.98668128
Mesp2	48.7742473	-0.0186052	0.40054533	-0.0464496	0.96295193	0.98660086
Fgd4	895.382329	-0.0186244	0.25900209	-0.0719084	0.94267482	0.97939177

Taok2	6026.54079	-0.018705	0.19564635	-0.095606	0.9238335	0.9712368
Plod3	3466.31615	-0.0188336	0.20408176	-0.0922845	0.92647198	0.97229279
Ccdc155	346.311683	-0.0188363	0.33879879	-0.0555972	0.95566266	0.98381504
Tdg	5.74475198	-0.0188727	0.40954327	-0.0460824	0.96324459	NA
Itga9	98.6095888	-0.0189025	0.38270533	-0.0493919	0.96060699	0.98577268
Fam168a	2752.80371	-0.0190138	0.27500258	-0.0691406	0.94487773	0.98017434
Krt15	3.46435455	-0.0190954	0.38788325	-0.0492298	0.96073618	NA
Gpr132	9.59186261	-0.0191448	0.42470822	-0.0450776	0.96404542	0.98668128
LOC10050460	21.5898484	-0.0191492	0.42603163	-0.0449479	0.96414882	0.98668128
Gm996	26.950078	-0.0193106	0.41931097	-0.0460531	0.96326796	0.98665811
Pigf	2120.53094	-0.0193658	0.19201062	-0.1008577	0.91966341	0.96959357
Galr3	0.98597056	-0.0194662	0.25870259	-0.0752456	0.94001928	NA
Snora43	71.3037303	-0.0196741	0.35980408	-0.0546801	0.95639332	0.98405248
Rab14	7115.80723	-0.0196859	0.17556453	-0.1121289	0.9107212	0.96611948
Tdrd5	130.621501	-0.0197456	0.36780806	-0.0536844	0.95718661	0.9845304
Mir6993	1.92276191	-0.0197488	0.33401961	-0.0591246	0.95285286	NA
Stk19	558.640937	-0.0197996	0.24652963	-0.0803133	0.93598809	0.97635838
Lcn2	1.71398718	-0.0199257	0.29381641	-0.0678168	0.94593145	NA
Crat	893.283348	-0.0199985	0.17705137	-0.1129528	0.91006797	0.96572178
Snora70	211.036696	-0.0202087	0.30452399	-0.0663617	0.94708987	0.98076289
Alkbh5	9220.24166	-0.0203236	0.18209395	-0.1116106	0.91113214	0.96617906
Kif13a	4455.40688	-0.0203695	0.21386908	-0.0952427	0.92412205	0.9713263
Med19	5612.31967	-0.0205848	0.15917772	-0.1293195	0.89710481	0.96146636
Spdef	13.9121821	-0.0206494	0.42242322	-0.0488832	0.96101234	0.9858688
Gm7120	32.9330244	-0.0206728	0.41651061	-0.0496332	0.96041466	0.98570541
Skp2	3794.4777	-0.0206792	0.21559719	-0.0959159	0.92358736	0.9711175
Gpr97	18.5350738	-0.0206832	0.42317267	-0.0488766	0.96101763	0.9858688
Kcnip4	3.21918708	-0.0207379	0.37180339	-0.0557765	0.95551988	NA
Tmem80	74.8549029	-0.0208272	0.31639829	-0.0658259	0.94751647	0.98081963
Xpnpep1	13672.6783	-0.0208881	0.18879544	-0.110639	0.91190261	0.96672055
Cyp4a30b	1.41031093	-0.0209695	0.22006383	-0.0952882	0.92408594	NA
Slc19a2	5715.37744	-0.0209867	0.20690622	-0.1014311	0.91920826	0.96953982
Ascl1	2.9115358	-0.0210199	0.32564246	-0.0645489	0.94853314	NA
Slc2a4	112.484704	-0.0210583	0.38576782	-0.0545879	0.95646674	0.98405248
Zc3h7a	4602.02531	-0.0211524	0.18256685	-0.1158609	0.90776282	0.96495598
Lpcat2	51.8235653	-0.0214496	0.36690651	-0.0584605	0.95338179	0.98295517
Ptgds	20.4909662	-0.0216399	0.41716593	-0.0518735	0.95862946	0.98484816
Mrpl1	3787.39804	-0.0216684	0.17673223	-0.1226059	0.90241916	0.96298088
Arhgap4	476.872513	-0.0216856	0.2076919	-0.1044122	0.91684226	0.96879329
Pdlim1	3969.62538	-0.0216893	0.19615032	-0.1105747	0.9119536	0.96672055
Mccc2	1673.02393	-0.0218292	0.16532126	-0.1320413	0.89495164	0.96038316

Arl6ip4	2872.34438	-0.0218549	0.21243877	-0.1028761	0.91806129	0.96891454
Gemin4	6715.28607	-0.0218828	0.2124069	-0.103023	0.91794468	0.96891454
Ap3s2	4428.09954	-0.021977	0.17375522	-0.1264827	0.89934982	0.96194986
Ndc1	5084.10073	-0.0219835	0.19034623	-0.115492	0.90805516	0.96495598
Mrpl45	9662.89963	-0.0220545	0.19159034	-0.1151131	0.90835551	0.96507731
Prune	6537.46367	-0.0220736	0.18858168	-0.1170506	0.90681992	0.96458038
Ccdc34	2582.02131	-0.0222439	0.20755221	-0.1071727	0.91465198	0.96832684
Rnf6	2120.82556	-0.0222637	0.18596385	-0.1197204	0.90470465	0.96383243
Arl6ip1	33025.8492	-0.022351	0.18439591	-0.1212122	0.90352299	0.96343157
Gm8579	1.54042277	-0.0224084	0.19196119	-0.1167343	0.90707065	NA
Hist1h4c	1.62876393	-0.0224265	0.29253098	-0.0766636	0.9388912	NA
Ppp2r2a	7732.27036	-0.0224731	0.16651902	-0.1349579	0.89264518	0.95958049
E2f1	3779.61185	-0.0224874	0.17175633	-0.1309262	0.89583368	0.96083244
Pcbd1	457.844982	-0.0225241	0.31493274	-0.0715205	0.94298354	0.97951958
B3gnt5	3141.87316	-0.0226181	0.17328582	-0.1305248	0.89615122	0.96084712
Scamp5	4553.25248	-0.0226249	0.15576961	-0.145246	0.88451667	0.95575952
Cltc	37318.9247	-0.0226706	0.21246972	-0.1067001	0.91502687	0.96836839
Cidec	26.84543	-0.022701	0.41703718	-0.054434	0.95658937	0.98405248
Trpm4	1650.13579	-0.0227916	0.22557842	-0.1010364	0.9195216	0.96959357
Adamts13	1.40732732	-0.0228007	0.25353018	-0.089933	0.92834043	NA
Nr3c1	1014.92218	-0.0228595	0.29426115	-0.0776845	0.93807901	0.97735613
2010320M18	433.218144	-0.0228739	0.25578496	-0.0894263	0.92874315	0.97322517
Pfkfb2	1929.31997	-0.0228816	0.26823705	-0.0853035	0.93202011	0.97430464
Eif4h	19626.8478	-0.0228967	0.17662018	-0.1296381	0.89685279	0.96132877
Alox5ap	223.216628	-0.0229602	0.41999525	-0.0546678	0.95640309	0.98405248
Slc7a6os	3704.93284	-0.0230114	0.21211927	-0.1084834	0.91361228	0.96775319
Cdc42	23527.4939	-0.0230142	0.18098392	-0.1271617	0.89881242	0.96168428
Ctrl	30.3586969	-0.0230239	0.42135946	-0.054642	0.9564237	0.98405248
Sumo3	10092.7589	-0.0230364	0.1807469	-0.127451	0.89858343	0.96168428
Tcn2	1985.29143	-0.0231496	0.26902581	-0.0860499	0.93142674	0.97430464
Sacm1l	4979.59685	-0.0232721	0.18736922	-0.1242044	0.90115342	0.96269291
Kcnab2	191.431757	-0.0232913	0.2843199	-0.0819194	0.9347108	0.97569448
Sema4f	471.998839	-0.0233574	0.20257943	-0.1153	0.90820732	0.96498579
Nanp	7.53444545	-0.0233865	0.41438755	-0.0564363	0.95499421	0.98369871
Gm10532	147.35203	-0.0236314	0.33389956	-0.070774	0.94357759	0.97986765
S100a14	45.3843536	-0.023716	0.43221033	-0.0548714	0.95624092	0.98405248
Rtfdc1	4423.90959	-0.0237312	0.19742583	-0.1202031	0.90432223	0.96369802
Slc2a4rg-ps	183.418618	-0.0237559	0.26854796	-0.0884605	0.92951066	0.97371643
Nabp2	1596.22194	-0.0237638	0.16556782	-0.1435289	0.88587248	0.95629154
Osbp	3153.64182	-0.0237797	0.19456219	-0.1222216	0.90272351	0.96304131
Smcr8	5493.72913	-0.0238203	0.25276913	-0.0942375	0.92492053	0.97150501

Kifap3	5757.72017	-0.0238442	0.18877768	-0.1263083	0.89948787	0.9620024
Cdk20	369.112949	-0.0238454	0.2832708	-0.0841788	0.93291426	0.9745902
Acin1	18591.4547	-0.0239192	0.18241477	-0.1311251	0.89567636	0.96083244
Ska3	3398.38771	-0.0240173	0.18401467	-0.1305184	0.8961563	0.96084712
St3gal2	1996.72986	-0.0241263	0.20513285	-0.117613	0.90637427	0.96428995
Tbc1d32	1039.5443	-0.0241465	0.24521483	-0.0984707	0.92155854	0.97033375
Hmgn5	1606.11439	-0.0241519	0.27087339	-0.0891632	0.92895221	0.97332811
Pin1rt1	1.58120563	-0.0242708	0.26042223	-0.0931977	0.9257465	NA
Marveld1	1095.27784	-0.0242866	0.29473298	-0.0824021	0.93432696	0.97558305
Nosip	3964.76468	-0.0243225	0.24336561	-0.0999424	0.92039008	0.96990703
Gad2	13.3227304	-0.0243235	0.4322715	-0.0562691	0.9551274	0.98369871
Ttc1	4941.14096	-0.0243801	0.22987617	-0.1060575	0.91553673	0.96836839
Hapln1	1.47417901	-0.0243932	0.22523644	-0.1083003	0.91375747	NA
Pidd1	1700.57133	-0.0244314	0.23178095	-0.1054075	0.9160525	0.96842504
2410004B18f	1474.96938	-0.024605	0.16856206	-0.1459701	0.88394495	0.95575952
Dgka	2524.55698	-0.0246612	0.2870294	-0.0859188	0.93153098	0.97430464
Dmrt2	72.3882747	-0.0247143	0.35665179	-0.0692954	0.94475448	0.98017434
Exd2	2789.66316	-0.0247147	0.15895411	-0.1554833	0.87644035	0.95266081
Gata6	32.8008597	-0.0247249	0.43151528	-0.0572978	0.95430795	0.98346209
Cast	4649.04224	-0.0247484	0.17115351	-0.1445975	0.88502864	0.95578308
Cxcl9	1.19950921	-0.0247621	0.1836704	-0.1348183	0.89275551	NA
Lrp5	4575.69089	-0.024813	0.21411729	-0.1158851	0.90774363	0.96495598
Usp9y	30.7136429	-0.0249096	0.25007434	-0.0996087	NA	NA
Cyp2j13	1.13326545	-0.0249975	0.20909543	-0.1195505	0.90483925	NA
Sult1c1	1.13326545	-0.0249975	0.20909543	-0.1195505	0.90483925	NA
9830132P13f	1.13326545	-0.0249975	0.20909543	-0.1195505	0.90483925	NA
2310005G13f	3.2544261	-0.0250122	0.37526761	-0.0666516	0.9468591	NA
Shc4	18.448207	-0.025022	0.42808872	-0.0584505	0.95338981	0.98295517
Tram2	380.128408	-0.0250405	0.21877597	-0.1144571	0.90887545	0.96531171
Fars2	1308.32603	-0.0250518	0.2325867	-0.1077095	0.91422612	0.96812002
Ptk6	2.69941805	-0.0250759	0.2858144	-0.0877347	0.9300875	NA
Dmrtb1	56.5957443	-0.0250841	0.41870187	-0.0599091	0.95222802	0.98262097
Sfswap	4341.44537	-0.0252113	0.20977108	-0.1201849	0.90433666	0.96369802
Lpcat3	6557.35859	-0.0253166	0.21077061	-0.1201143	0.90439258	0.96369802
D17Wsu92e	8525.30578	-0.025419	0.18058958	-0.1407554	0.88806318	0.95725292
Anapc13	2444.59041	-0.0254285	0.21408426	-0.118778	0.9054512	0.96404417
Slc25a1	9104.13263	-0.0254848	0.22435818	-0.1135897	0.90956302	0.96556861
Hyal2	2472.47141	-0.0255138	0.19977292	-0.127714	0.89837527	0.96162064
Cdh1	54535.5014	-0.0255397	0.20279709	-0.1259374	0.89978147	0.96214685
D10Wsu102e	4856.84058	-0.0255564	0.24735346	-0.1033194	0.91770947	0.96891454
Park7	13283.5648	-0.0255711	0.20714695	-0.1234444	0.90175519	0.96270877

Rnaseh1	2246.41437	-0.0256257	0.23669744	-0.1082636	0.91378664	0.96787195
Utp11l	4266.38826	-0.0256593	0.19287401	-0.1330368	0.89416426	0.96010139
Cdh26	3.66047995	-0.025749	0.34601045	-0.0744169	0.94067868	NA
Bloc1s4	872.92885	-0.0258034	0.20677194	-0.1247916	0.90068857	0.96269291
Ruvbl1	4081.60104	-0.0258669	0.1844651	-0.1402268	0.88848082	0.95732618
Hbp1	5326.59723	-0.0259266	0.19283514	-0.1344497	0.89304697	0.95969687
Klrb1c	6.18752571	-0.02593	0.41076669	-0.0631258	0.94966634	0.98154069
Cyp4a10	1.68987894	-0.0259357	0.29350334	-0.088366	0.92958579	NA
Scn2a1	29.9829081	-0.0260087	0.43180037	-0.0602332	0.95196991	0.98255021
Golga7	5521.56964	-0.0260307	0.18279481	-0.142404	0.88676089	0.95661824
Tpm1	4451.00779	-0.0260352	0.24804431	-0.1049621	0.9164059	0.96866695
Rrm1	23579.9004	-0.0261059	0.18002922	-0.1450093	0.88470356	0.95578308
Stt3a	21224.3228	-0.0261192	0.1451609	-0.1799324	0.85720562	0.94535172
Zfp46	360.237152	-0.0261353	0.30584693	-0.0854523	0.93190178	0.97430464
Nufip1	5526.09446	-0.0262352	0.17620824	-0.1488877	0.88164228	0.95498135
Rab10os	295.4282	-0.0263112	0.21624464	-0.1216731	0.90315793	0.96324484
Rars2	4013.20505	-0.0263326	0.18090627	-0.1455594	0.88426921	0.95575952
Fgf8	18.580701	-0.0263979	0.43224922	-0.0610709	0.95130272	0.98235672
Gar1	3564.70353	-0.0264125	0.18136125	-0.1456348	0.88420967	0.95575952
Adamts19	5.86452419	-0.0264375	0.40077372	-0.0659662	0.94740475	NA
Pebp4	0.7780404	-0.0264445	0.18039898	-0.1465892	0.88345625	NA
Pabpn1l	0.7780404	-0.0264445	0.18039898	-0.1465892	0.88345625	NA
Iba57	430.016683	-0.0265799	0.20923959	-0.1270308	0.898916	0.96168428
Atp1b3	8808.13073	-0.0265949	0.19833362	-0.134092	0.89332984	0.95980188
Tubgcp2	3973.58273	-0.0266206	0.16109259	-0.1652503	0.86874698	0.94932783
Zfp91	4767.15347	-0.0266673	0.16398993	-0.1626154	0.87082124	0.95028556
Serpib1b	98.375748	-0.0266896	0.3576109	-0.074633	0.94050671	0.97844661
Commd3	2724.05644	-0.0267371	0.21989619	-0.1215897	0.90322399	0.96324484
Ptcd1	2327.77655	-0.0268359	0.23217177	-0.1155862	0.90798047	0.96495598
Gmcl1	3834.01197	-0.0268686	0.21324276	-0.1260002	0.8997318	0.96214685
Crcp	2296.81764	-0.0268754	0.1669689	-0.1609606	0.8721244	0.95107339
Ccdc53	1919.08954	-0.0268851	0.27140748	-0.0990581	0.92109215	0.97000537
Akap11	4643.18173	-0.0268903	0.22453326	-0.1197608	0.90467265	0.96383243
Fam168b	8255.17593	-0.026917	0.17988668	-0.1496328	0.8810543	0.9546085
Abtb1	2098.58808	-0.0269222	0.24633271	-0.1092919	0.91297101	0.96727157
Dpm1	3206.66521	-0.026972	0.20402149	-0.1322017	0.89482479	0.96038316
Gm101	6.4094643	-0.0270599	0.41415442	-0.0653376	0.94790521	0.98083012
Lins	951.02144	-0.0271691	0.18930759	-0.1435181	0.88588103	0.95629154
Tnp2	1.44280298	-0.0271938	0.22145862	-0.1227942	0.90227006	NA
Zfp236	2390.85927	-0.0272153	0.22766373	-0.1195415	0.90484639	0.96385138
Spag17	1.66504461	-0.0272541	0.32445712	-0.0839991	0.93305714	NA

Esrra	1139.08038	-0.0272599	0.22416199	-0.1216083	0.90320927	0.96324484
Klf8	5041.24291	-0.0273525	0.23614489	-0.1158292	0.90778792	0.96495598
Gm5634	1.15259363	-0.0274964	0.20988311	-0.1310081	0.8957689	NA
Tars2	4482.54217	-0.0275017	0.17126231	-0.1605824	0.87242229	0.95113846
Ptpn1	2438.26974	-0.0275302	0.20010954	-0.1375757	0.89057575	0.9584185
Al429214	36.6609069	-0.0276656	0.42446639	-0.0651774	0.94803277	0.98083012
Timm8a2	592.910337	-0.0278236	0.30062315	-0.092553	0.92625866	0.97229279
Zfp831	1.07177305	-0.0279909	0.20600512	-0.1358748	0.89192028	NA
Supv3l1	4596.20161	-0.0280503	0.17691436	-0.1585527	0.87402128	0.95188073
Zscan2	280.47435	-0.0281304	0.26774461	-0.1050644	0.91632467	0.96864693
Tada2a	6946.98303	-0.0282115	0.1928967	-0.146252	0.88372249	0.95568774
Actn1	19049.348	-0.0282599	0.18148226	-0.155717	0.87625613	0.95264675
Arhgef12	4474.26946	-0.0282723	0.22709695	-0.1244945	0.90092376	0.96269291
Snord111	3.0358546	-0.0283011	0.3517022	-0.080469	0.93586427	NA
Pin4	532.690517	-0.0283767	0.2382041	-0.1191278	0.90517412	0.96400238
Cep85	5656.51912	-0.0284296	0.15147829	-0.1876807	0.85112693	0.94351307
Pigu	2400.44261	-0.0285324	0.16515151	-0.1727652	0.86283601	0.94679387
Cdk12	7036.14046	-0.0285842	0.31139721	-0.0917933	0.9268623	0.97238317
Dpp10	2.96705963	-0.0286099	0.29320084	-0.0975778	0.92226752	NA
Anapc11	3524.40666	-0.0286556	0.21230755	-0.1349723	0.89263378	0.95958049
Mir3068	14.4948462	-0.0286822	0.42955569	-0.0667719	0.94676329	0.98072348
Slc39a8	9.07076249	-0.0287538	0.42617156	-0.06747	0.94620751	0.98057263
Dyrk1a	4743.26859	-0.0287646	0.20142186	-0.1428079	0.88644188	0.95661824
Wnk3	1716.95067	-0.0288871	0.29051699	-0.0994334	0.92079418	0.96990703
Thoc3	4716.34816	-0.0289522	0.18899375	-0.1531915	0.87824729	0.95329223
Ptprh	2.95866646	-0.029008	0.35587415	-0.081512	0.9350348	NA
Fam126a	1154.26721	-0.029043	0.30700578	-0.0946008	0.92463195	0.9714195
Rnf10	21045.8167	-0.0290641	0.17282447	-0.1681714	0.86644842	0.94848229
Dcp2	15170.5353	-0.0290783	0.21410352	-0.135814	0.89196831	0.95913423
Gpr84	1.94006311	-0.0291247	0.30995225	-0.0939652	0.92513683	NA
Snord4a	74.8306082	-0.0291988	0.33620506	-0.0868481	0.93079225	0.97430464
Sypl2	17.9121164	-0.0292108	0.42168375	-0.0692718	0.94477329	0.98017434
Plp2	5405.41158	-0.029218	0.16339945	-0.1788132	0.85808437	0.9455234
Znhit1	1506.17379	-0.0292817	0.21723811	-0.1347907	0.89277736	0.95958049
1700102P08F	74.3384958	-0.0292832	0.36253816	-0.0807728	0.93562263	0.97617361
Uba2	42845.58	-0.0293471	0.16595697	-0.1768357	0.85963744	0.9455234
Rps6ka1	9532.93246	-0.0294324	0.20721443	-0.1420383	0.88704974	0.95675617
Vars2	2736.51478	-0.0294433	0.19513437	-0.1508871	0.88006474	0.95411927
Hivep1	1615.70139	-0.0295114	0.27668182	-0.106662	0.91505712	0.96836839
Snx16	1677.27628	-0.0295269	0.18593667	-0.1588007	0.87382587	0.95173456
Krt42	1644.62191	-0.0295542	0.43203061	-0.0684077	0.94546108	0.98027294

Rps27l	17281.2556	-0.0296494	0.18309945	-0.1619308	0.87136036	0.95068811
Rps11	50852.6454	-0.0297036	0.16376128	-0.1813837	0.85606645	0.9447654
Mylk2	5.6638937	-0.0297487	0.37967707	-0.0783526	0.93754762	NA
Alx1	4.19877214	-0.0298003	0.38026354	-0.0783676	0.93753566	NA
C530005A16f	23.9953654	-0.0298579	0.41245837	-0.07239	0.94229156	0.97906786
Tra2b	16863.5638	-0.0299298	0.18408734	-0.1625845	0.87084557	0.95028556
Treh	1.32111265	-0.0300115	0.27776385	-0.1080468	0.91395854	NA
Smyd3	2385.97162	-0.0300494	0.20404021	-0.1472717	0.88291755	0.95554672
4732471J01R	63.4950097	-0.0301448	0.34985969	-0.0861624	0.9313373	0.97430464
Cln8	2664.20532	-0.0301703	0.20912344	-0.1442702	0.88528708	0.95578308
Cdk11b	8718.69705	-0.0302163	0.17993164	-0.1679319	0.86663687	0.94861203
Cdk13	5669.91756	-0.0302363	0.19973596	-0.1513815	0.87967477	0.95385748
Prss22	1.65524786	-0.0302697	0.32047101	-0.0944538	0.92474869	NA
Phka2	2058.01638	-0.0302853	0.16861401	-0.1796134	0.85745607	0.94538792
Acp1	3062.39951	-0.0303414	0.3328309	-0.0911616	0.92736416	0.97266045
Stk11	3602.14738	-0.0303727	0.19504702	-0.1557198	0.87625392	0.95264675
Fam107a	16.1012635	-0.0304595	0.43227035	-0.0704641	0.94382431	0.97986765
Tmem179b	1089.73785	-0.0305872	0.17782428	-0.172008	0.86343121	0.94702747
Grsf1	16460.7926	-0.0307073	0.25169413	-0.1220026	0.90289698	0.96309686
C1galt1	1519.1984	-0.0307228	0.25009049	-0.1228467	0.90222851	0.96284351
4931429I11R	1.13112641	-0.0308089	0.20913193	-0.1473179	0.88288108	NA
Fmr1nb	2915.65469	-0.0308191	0.22513687	-0.1368905	0.89111736	0.95858894
Pex5	3721.41418	-0.0308583	0.20144251	-0.1531867	0.87825105	0.95329223
Rab23	2685.57092	-0.030861	0.22454828	-0.1374357	0.8906864	0.9584185
Psmg3	973.471637	-0.030866	0.21576502	-0.1430538	0.88624765	0.9565545
Kidins220	3670.54761	-0.0309143	0.20185538	-0.1531509	0.87827925	0.95329223
Prdx1	94281.3566	-0.0310145	0.17569092	-0.1765288	0.85987854	0.9455234
Cryab	190.168282	-0.0310533	0.30365399	-0.1022654	0.91854605	0.96908478
Pck1	0.76549058	-0.0310539	0.18685218	-0.1661948	0.86800363	NA
Serpina12	0.76549058	-0.0310539	0.18685218	-0.1661948	0.86800363	NA
Mup3	0.75294075	-0.03107	0.18012189	-0.1724945	0.86304875	NA
Osgin1	27.4433634	-0.0310834	0.41531185	-0.0748434	0.94033929	0.97844661
Ccdc127	3933.82739	-0.0311438	0.16845893	-0.1848746	0.8533274	0.94431772
Homer3	2553.09259	-0.0311471	0.17551397	-0.1774625	0.85914512	0.9455234
Aplp1	3832.44103	-0.0311687	0.31345055	-0.0994375	0.92079094	0.96990703
Mrpl52	3116.21987	-0.0311961	0.22496154	-0.1386729	0.88970862	0.9580332
Prkg1	7.63345595	-0.0311969	0.40798343	-0.076466	0.93904838	0.97791076
Urah	633.755177	-0.0312698	0.22853694	-0.1368261	0.89116828	0.95858894
Nde1	6757.40226	-0.0313356	0.16287438	-0.1923911	0.84743584	0.94147896
Pcdhga3	40.4802273	-0.0313622	0.38403106	-0.0816658	0.93491245	0.97569448
Josd1	2625.14145	-0.0314083	0.15465012	-0.2030927	0.83906259	0.93837763

4930525G20I	9.98377373	-0.0314382	0.42218502	-0.0744655	0.94064	0.9784723
Dmkn	10.1937546	-0.0314841	0.42726262	-0.0736879	0.94125871	0.97866806
Fbxo21	4615.18405	-0.0316476	0.21919092	-0.1443837	0.88519752	0.95578308
Gpx4	19217.9466	-0.0316519	0.32970135	-0.0960018	0.92351917	0.9711175
Olf459	0.85859565	-0.0316854	0.18117408	-0.1748895	0.86116645	NA
Dynlr2	0.85859565	-0.0316854	0.18117408	-0.1748895	0.86116645	NA
Art3	16.1556594	-0.0318344	0.43221814	-0.0736537	0.94128597	0.97866806
Trappc11	5439.43026	-0.0319645	0.21037811	-0.1519382	0.87923569	0.95385748
Trak2	3085.8197	-0.0319783	0.20632127	-0.1549928	0.87682702	0.95290135
Zbtb12	1568.30622	-0.0319892	0.22135366	-0.1445161	0.88509298	0.95578308
Zfp770	2469.54609	-0.0320175	0.22491172	-0.142356	0.88679882	0.95661824
Spns2	117.268921	-0.0320531	0.28600108	-0.1120733	0.91076533	0.96611948
Ccdc65	44.2332711	-0.0320589	0.39685785	-0.0807818	0.9356155	0.97617361
Golph3l	2963.7372	-0.0320978	0.16594801	-0.1934207	0.84662953	0.94147896
H2afy3	1.68712587	-0.0321141	0.32470895	-0.0989013	0.92121662	NA
C130083M11	1.73151892	-0.0321166	0.26655152	-0.1204893	0.90409554	NA
Rab11fip2	415.28346	-0.0321581	0.25889714	-0.1242118	0.90114754	0.96269291
Atf7	344.833701	-0.0321667	0.34839031	-0.0923294	0.92643632	0.97229279
Sdf4	7497.87635	-0.032248	0.17518028	-0.1840847	0.85394705	0.94431772
Ly6g5c	14.747294	-0.0322507	0.43021895	-0.0749634	0.9402438	0.97844661
Pmpca	11834.8446	-0.0322649	0.15709265	-0.2053878	0.83726917	0.93732437
Snord65	169.188499	-0.0322934	0.2975312	-0.1085377	0.91356917	0.96775319
Ccnj1	276.7529	-0.0324412	0.39710876	-0.0816936	0.93489039	0.97569448
Pvr	2341.54068	-0.0326406	0.18466818	-0.1767529	0.85970252	0.9455234
Cpa6	0.80012166	-0.0326994	0.19059444	-0.1715655	0.86377916	NA
Tln2	5111.92203	-0.0327791	0.26609096	-0.1231877	0.90195849	0.96270877
Ccdc43	13762.5615	-0.032829	0.18411453	-0.1783074	0.85848156	0.9455234
Pepd	3129.92879	-0.0329844	0.20468894	-0.1611442	0.87197981	0.95105611
Ifnl2	0.83376133	-0.0329961	0.19261306	-0.1713078	0.86398173	NA
Kcnj2	2.39268385	-0.033	0.33714616	-0.0978803	0.92202732	NA
Ctnnbl1	4865.80717	-0.0331861	0.1871382	-0.177335	0.8592453	0.9455234
Gm19705	197.558363	-0.033191	0.32895182	-0.1008993	0.91963039	0.96959357
Ppil1	7675.07493	-0.0332213	0.19646041	-0.1690991	0.86571866	0.94808387
Cdh6	3.88869492	-0.0333825	0.37972774	-0.0879116	0.92994691	NA
Il12b	2.36895299	-0.033429	0.34379207	-0.0972362	0.9225388	NA
Evi5	6616.02216	-0.0334632	0.23623954	-0.1416493	0.88735701	0.95687535
Mpo	0.8365144	-0.0334767	0.19278047	-0.1736521	0.86213889	NA
Katnb1	2090.00198	-0.0336092	0.23776789	-0.1413531	0.88759098	0.95694172
Rab11fip4	3664.3873	-0.0336104	0.24035413	-0.1398371	0.88878868	0.95743646
Mcts2	2248.82164	-0.0336226	0.19082184	-0.176199	0.8601376	0.9455234
Sesn2	5725.02779	-0.033669	0.23719891	-0.1419442	0.8871241	0.95677002

Arpc3	8255.31008	-0.0336746	0.19181404	-0.1755586	0.8606407	0.94567701
Zranb1	2462.05424	-0.0336895	0.17514295	-0.1923543	0.84746471	0.94147896
Nup54	5931.42826	-0.0337576	0.17992206	-0.1876235	0.85117177	0.94351307
Slc30a7	2198.02407	-0.0337707	0.19573792	-0.1725303	0.86302067	0.94692969
1700021F05F	2592.33004	-0.0338117	0.23729122	-0.1424902	0.88669278	0.95661824
Ssbp1	5496.77674	-0.0338762	0.19384351	-0.1747606	0.86126777	0.94587395
Ethe1	859.684166	-0.0339901	0.23813906	-0.1427321	0.8865018	0.95661824
Erlin1	3990.93873	-0.0340277	0.17695155	-0.1922994	0.84750768	0.94147896
Dync1h1	29152.6783	-0.0340278	0.25902891	-0.1313666	0.89548529	0.96072382
Harbi1	1585.00982	-0.0340337	0.17000081	-0.2001971	0.84132647	0.93943189
Tob1	4729.27005	-0.0340959	0.18835907	-0.1810156	0.85635534	0.9448845
Wrb	2901.05537	-0.0341148	0.18551224	-0.183895	0.85409584	0.94431772
Scfd1	5164.93502	-0.0341732	0.16578956	-0.206124	0.83669403	0.93698697
Shank3	397.546489	-0.0342376	0.3499521	-0.0978351	0.92206322	0.97043051
Gm3716	35.2592515	-0.034258	0.40460688	-0.0846699	0.93252385	0.97431325
Mrps28	2821.03813	-0.0342649	0.195535	-0.1752365	0.86089383	0.94567701
Ccdc94	643.167211	-0.0342807	0.18515199	-0.1851489	0.85311221	0.94431772
Trim26	4258.72144	-0.0343426	0.19550369	-0.175662	0.86055948	0.94567701
6330408A02f	202.956789	-0.0344165	0.27257494	-0.1262644	0.89952266	0.9620024
Tmod4	34.332604	-0.0344994	0.43213731	-0.0798344	0.93636898	0.97662468
Pex11g	148.464772	-0.034533	0.31728086	-0.1088405	0.91332898	0.96758492
Rfc5	9580.4982	-0.0346462	0.16413012	-0.2110899	0.83281709	0.93498494
9330182L06F	171.214685	-0.0346514	0.4064782	-0.085248	0.93206427	0.97430464
Tasp1	897.866305	-0.0347023	0.2176667	-0.1594287	0.87333114	0.95171748
Uchl3	7194.42804	-0.0347909	0.19057952	-0.1825534	0.85514842	0.94458789
Urgcp	1061.48321	-0.0348316	0.35042579	-0.099398	0.92082229	0.96990703
Snrpe	9851.94214	-0.0349616	0.19735133	-0.1771539	0.8593875	0.9455234
1700096K18F	122.165176	-0.0349949	0.3066713	-0.114112	0.90914898	0.96532677
Dcun1d4	2683.6005	-0.0350933	0.19088837	-0.1838422	0.85413722	0.94431772
Lpin1	4523.89083	-0.0351509	0.23067529	-0.1523827	0.87888514	0.95370475
Aurkaip1	6040.29526	-0.0351538	0.20459653	-0.1718199	0.86357912	0.94702747
4930481A15f	13.5859819	-0.0351991	0.4306822	-0.0817288	0.93486237	0.97569448
Pik3r4	5251.31889	-0.0352461	0.24093921	-0.1462863	0.8836954	0.95568774
Orc2	11422.2958	-0.0354684	0.17145351	-0.2068688	0.83611235	0.93697364
Nfkbid	343.557203	-0.035479	0.27731125	-0.1279394	0.89819692	0.96162064
Stx18	1021.6154	-0.0355167	0.17706925	-0.2005806	0.84102656	0.93940315
Arhgef18	9802.08578	-0.0355309	0.19280661	-0.1842826	0.85379179	0.94431772
Ttc39b	8224.44683	-0.0355721	0.21393378	-0.1662764	0.86793941	0.94911228
G6pdx	5512.94055	-0.0355999	0.16035959	-0.2220006	0.82431345	0.93107393
7-Sep	18766.4596	-0.0357572	0.2027014	-0.1764033	0.8599771	0.9455234
Mrpl18	6752.44274	-0.035827	0.1791804	-0.1999492	0.84152028	0.93957883

Gsdmc4	18.8302744	-0.035828	0.42742422	-0.083823	0.93319715	0.97467283
4930506C21F	0.82220291	-0.0360122	0.19201001	-0.187554	0.85122632	NA
Gm5547	0.82220291	-0.0360122	0.19201001	-0.187554	0.85122632	NA
Kdf1	299.367569	-0.0360449	0.31560646	-0.1142082	0.90907272	0.96531171
Cul9	191.812918	-0.036052	0.28339758	-0.1272137	0.89877129	0.96168428
Ascc3	4466.77446	-0.0361288	0.2329723	-0.1550776	0.87676016	0.95290135
Raf1	10732.9168	-0.0361652	0.15461485	-0.2339053	0.81505846	0.9292503
Slc6a5	3.95831833	-0.0362256	0.29635529	-0.122237	0.90271135	NA
Zfp82	927.85692	-0.0362665	0.19904162	-0.1822055	0.85542144	0.94458789
Gm20556	12.9932863	-0.0363051	0.3870461	-0.0938006	0.92526758	0.9715622
Pfdn2	4765.01802	-0.0364135	0.18246869	-0.1995601	0.84182463	0.93972068
Nphp1	1074.42444	-0.0364885	0.19577402	-0.1863809	0.85214605	0.94392216
Glo1	5812.50662	-0.0365583	0.18444693	-0.1982047	0.84288489	0.94022688
Rmdn1	322.948022	-0.0366387	0.34979802	-0.1047426	0.91658008	0.96871937
Dpyd	2.1946625	-0.0367404	0.2807995	-0.1308422	0.89590011	NA
Thap4	3580.67344	-0.0367503	0.16701076	-0.2200478	0.82583394	0.93152509
Foxn1	12.2567346	-0.0367728	0.43193283	-0.0851356	0.93215362	0.97430464
Camsap2	3281.29521	-0.0367796	0.22374321	-0.1643829	0.86942973	0.94947343
Bag1	8175.37713	-0.0368132	0.18359081	-0.2005175	0.84107589	0.93940315
Tfe3	5157.80798	-0.0368729	0.22935275	-0.1607693	0.87227511	0.95107339
Zfp870	2963.26324	-0.0368947	0.16812224	-0.2194517	0.82629824	0.93166673
Jakmip3	1.85374894	-0.0370491	0.26856543	-0.1379517	0.89027859	NA
Ino80e	3902.08895	-0.0370595	0.22691397	-0.1633198	0.87026666	0.94998715
Gm11974	1912.36936	-0.0371108	0.21640553	-0.1714874	0.86384057	0.94702747
Lgals7	49.6744359	-0.0371361	0.42924327	-0.0865153	0.93105683	0.97430464
Polr2a	25226.2854	-0.0371788	0.27648829	-0.1344681	0.89303245	0.95969687
Gcc1	1264.93614	-0.0372144	0.18923545	-0.1966567	0.84409617	0.94103803
Gpr56	1467.35085	-0.0372219	0.34796225	-0.1069712	0.91481186	0.96832729
Nudt4	12361.1887	-0.0372535	0.2713509	-0.1372889	0.89080245	0.95846933
Lyve1	0.775022	-0.0372798	0.1891345	-0.1971075	0.84374345	NA
Mok	2325.98907	-0.0373052	0.28926744	-0.1289643	0.8973859	0.96153958
Ttll4	3703.02066	-0.0373766	0.26242705	-0.1424265	0.88674313	0.95661824
lpw	2.42589588	-0.0374422	0.31496021	-0.1188792	0.90537104	NA
Ugt1a6a	1.85650201	-0.0374986	0.2686015	-0.1396068	0.88897067	NA
Zfp809	2962.82518	-0.0375306	0.1718087	-0.2184441	0.82708313	0.93195926
Cercam	1615.1777	-0.0375859	0.19142484	-0.1963482	0.84433761	0.94115145
Col4a2	842.291296	-0.037607	0.43221341	-0.0870103	0.93066332	0.97430464
Cdc42bpg	3858.33873	-0.0376136	0.20373543	-0.1846197	0.85352734	0.94431772
Mir7115	5.79603544	-0.037615	0.40918816	-0.091926	0.92675682	NA
Rbl2	915.720601	-0.0376336	0.25928681	-0.1451426	0.88459829	0.95576934
Plekhf2	13430.6153	-0.0376432	0.16010394	-0.2351173	0.81411772	0.92878688

Gm12338	28.0659553	-0.0376765	0.40063128	-0.0940429	0.9250751	0.97150501
S100pbp	3266.72572	-0.037681	0.22901171	-0.1645375	0.86930806	0.94941665
Rspo1	32.4671615	-0.0376962	0.41858238	-0.0900568	0.92824209	0.97288637
Eif4g2	94740.2877	-0.0377167	0.20590257	-0.1831775	0.85465877	0.94455253
Sprtn	1005.601	-0.0377239	0.27409977	-0.1376284	0.89053409	0.9584185
Vps51	1722.06622	-0.0377786	0.19855389	-0.190269	0.84909838	0.94242587
Dhrs9	1.7171913	-0.0378044	0.19734322	-0.1915668	0.84808158	NA
Tmtc2	96.1506398	-0.0379191	0.36378584	-0.1042347	0.91698313	0.96879329
Snrnp70	21552.7218	-0.0381636	0.16818982	-0.2269081	0.82049519	0.930536
Gm3558	46.0370896	-0.0381718	0.424091	-0.0900086	0.92828036	0.97288637
Fau	17158.4048	-0.0382191	0.22844022	-0.1673046	0.86713037	0.94870504
Ddit4l	939.982477	-0.0383465	0.26766036	-0.1432657	0.88608036	0.95644032
Srsf1	49131.6963	-0.0383828	0.18522892	-0.2072182	0.83583949	0.93687039
Dnajc18	1649.85514	-0.038409	0.15558272	-0.2468716	0.80500756	0.92429656
Nmur1	1.72937988	-0.0384197	0.2666062	-0.1441065	0.8854164	NA
Mrps33	582.808476	-0.0384413	0.21667624	-0.1774137	0.85918347	0.9455234
Tuba1b	11408.7025	-0.0385354	0.21236217	-0.1814608	0.85600593	0.9447654
Ccnk	4180.96112	-0.0385687	0.17847049	-0.2161067	0.82890461	0.93279511
Ubald2	6.75639534	-0.0385958	0.41835833	-0.0922553	0.9264952	0.97229279
Tmub1	317.08242	-0.0386193	0.22556989	-0.1712079	0.86406032	0.94713484
Polr3b	7327.70179	-0.0386482	0.1736054	-0.222621	0.82383052	0.93107393
Ndufb7	5353.44518	-0.0386522	0.23959736	-0.1613216	0.87184012	0.95103716
Muc6	0.81918451	-0.0386951	0.18079283	-0.2140299	0.83052371	NA
Cstad	1.96654704	-0.0387812	0.34033457	-0.1139501	0.90927733	NA
Fam103a1	1268.58406	-0.0388897	0.21494025	-0.1809328	0.85642036	0.9448845
Grhl3	1785.34743	-0.0389189	0.22008542	-0.1768355	0.85963757	0.9455234
3110070M22	4.92912672	-0.0389463	0.36345742	-0.1071551	0.91466595	NA
A230056J06R	5.25862262	-0.0389616	0.40536709	-0.0961144	0.92342972	NA
Dcun1d2	981.172092	-0.0389876	0.21252488	-0.1834497	0.85444521	0.94447447
BC049730	0.87517076	-0.0390059	0.19508947	-0.1999383	0.84152882	NA
Krt36	0.87517076	-0.0390059	0.19508947	-0.1999383	0.84152882	NA
Bbs4	1421.88783	-0.0391326	0.17562327	-0.2228213	0.82367457	0.93107393
Rbm4b	323.53853	-0.0391696	0.2050182	-0.1910541	0.84848317	0.94207924
Mir1983	2.00117812	-0.039193	0.33631537	-0.1165366	0.9072273	NA
Sap30l	1763.70862	-0.039203	0.27928259	-0.1403703	0.88836741	0.95731423
Ptn	3.42107073	-0.0393763	0.30397688	-0.1295371	0.8969327	NA
Tmem206	602.047879	-0.0393913	0.25713227	-0.1531947	0.8782447	0.95329223
Snord1b	35.4702252	-0.0394361	0.40607175	-0.0971161	0.92263417	0.97076346
Dvl1	2624.84898	-0.0395238	0.18004783	-0.2195186	0.82624613	0.93166673
Lsm11	1112.64738	-0.0395465	0.17550872	-0.225325	0.82172645	0.93076517
Tigd3	184.501754	-0.0395733	0.28561255	-0.138556	0.88980099	0.9580332

Samd4b	4711.73286	-0.0396387	0.21374245	-0.1854506	0.85287565	0.94423839
Dennd3	595.763307	-0.039647	0.21801443	-0.1818551	0.85569641	0.94458789
Zfp790	888.046748	-0.0396569	0.20623995	-0.1922853	0.84751875	0.94147896
Arnt2	274.772352	-0.0396606	0.27487559	-0.1442858	0.88527482	0.95578308
Knop1	14174.2007	-0.0397257	0.18344496	-0.2165538	0.82855613	0.93256314
Myh2	0.47351958	-0.0397548	0.1747357	-0.227514	0.8200241	NA
1700010I02R	0.47351958	-0.0397548	0.1747357	-0.227514	0.8200241	NA
Klk1b24	0.47351958	-0.0397548	0.1747357	-0.227514	0.8200241	NA
Scgb1b3	0.47351958	-0.0397548	0.1747357	-0.227514	0.8200241	NA
4930455D15I	0.47351958	-0.0397548	0.1747357	-0.227514	0.8200241	NA
Hpd	0.47351958	-0.0397548	0.1747357	-0.227514	0.8200241	NA
Gm5088	0.47351958	-0.0397548	0.1747357	-0.227514	0.8200241	NA
Chil3	0.47351958	-0.0397548	0.1747357	-0.227514	0.8200241	NA
4933432I03R	0.47351958	-0.0397548	0.1747357	-0.227514	0.8200241	NA
1700055N04I	0.47351958	-0.0397548	0.1747357	-0.227514	0.8200241	NA
Krtap10-10	0.47351958	-0.0397548	0.1747357	-0.227514	0.8200241	NA
Spink13	0.47351958	-0.0397548	0.1747357	-0.227514	0.8200241	NA
Gm14204	0.47351958	-0.0397548	0.1747357	-0.227514	0.8200241	NA
Tm9sf3	11764.0648	-0.0397963	0.16900516	-0.2354741	0.81384081	0.92878688
Dtl	10236.5444	-0.0398702	0.18642594	-0.2138661	0.83065146	0.9337556
Gm527	236.881963	-0.0398782	0.2629341	-0.1516663	0.87945016	0.95385748
Tnfsf13b	4.6194269	-0.0399944	0.37362375	-0.1070446	0.9147536	NA
Traf5	51.183097	-0.0400793	0.36044243	-0.1111947	0.91146198	0.96639703
Crot	4649.5274	-0.0401291	0.1718931	-0.233454	0.81540888	0.92939072
Tor1a	2468.79182	-0.0401947	0.1966086	-0.2044401	0.83800961	0.93761332
Fer1l5	1.46488423	-0.0403239	0.25404031	-0.1587303	0.87388138	NA
Slc37a4	540.844772	-0.0403876	0.26668205	-0.1514449	0.87962476	0.95385748
Rhou	883.76437	-0.0405122	0.19362826	-0.2092269	0.83427108	0.93598943
Zfp446	1027.94948	-0.0405264	0.21640738	-0.1872691	0.85144966	0.94362127
Tbck	752.869479	-0.0405735	0.24659122	-0.1645373	0.86930815	0.94941665
Frg1	5162.3529	-0.04058	0.21891127	-0.1853719	0.85293733	0.94423839
Npl	1689.27128	-0.0406366	0.31946498	-0.1272019	0.89878057	0.96168428
Aplp2	27715.2199	-0.0406431	0.15611881	-0.2603347	0.79460559	0.91975523
Vamp3	4470.76227	-0.0406626	0.17855947	-0.227726	0.81985923	0.93051161
Purb	7187.65255	-0.0407316	0.21923886	-0.1857864	0.8526123	0.94417652
C4bp	1.37627774	-0.0407471	0.18690086	-0.2180146	0.82741773	NA
Setmar	360.159507	-0.0408343	0.21929039	-0.1862111	0.85227923	0.94400244
Eif2b1	5204.50528	-0.0408483	0.17655699	-0.2313606	0.81703469	0.93016422
Spsb3	1151.32279	-0.0409228	0.21871563	-0.1871051	0.85157825	0.94369652
Atg9a	923.079824	-0.0410017	0.22427695	-0.1828171	0.85494156	0.94458789
Per1	1176.62333	-0.0410489	0.24537194	-0.1672924	0.86713995	0.94870504

Gm14379	1.3858253	-0.0410958	0.25205139	-0.1630453	0.87048276	NA
Parp6	836.201907	-0.0411479	0.19319189	-0.2129895	0.83133512	0.93397576
Smad9	358.818231	-0.0413018	0.36933344	-0.1118281	0.91095974	0.96617289
Sbds	5101.29474	-0.0413558	0.15878571	-0.2604506	0.79451622	0.91975523
Dmwd	3026.37434	-0.0413992	0.19119807	-0.216525	0.82857854	0.93256314
Tdgf1	59797.1654	-0.0414123	0.26822092	-0.1543961	0.87729743	0.95317909
Raver1	3575.17185	-0.0414865	0.19715244	-0.2104283	0.83333337	0.93527477
Grb2	7031.51127	-0.0414992	0.19748761	-0.2101356	0.83356183	0.93545802
Scaf8	6023.93963	-0.0415226	0.21049314	-0.1972632	0.84362157	0.94081023
Ii15	6.79902675	-0.041547	0.40334551	-0.103006	0.91795819	0.96891454
Sirt1	7087.54492	-0.0416668	0.22562277	-0.1846745	0.85348436	0.94431772
Mir23a	0.46636384	-0.0417461	0.17455831	-0.2391528	0.8109871	NA
Mir205	0.46636384	-0.0417461	0.17455831	-0.2391528	0.8109871	NA
Speer4a	0.46636384	-0.0417461	0.17455831	-0.2391528	0.8109871	NA
Mir3097	0.46636384	-0.0417461	0.17455831	-0.2391528	0.8109871	NA
Rbm28	9613.01912	-0.0419284	0.16338831	-0.2566181	0.79747362	0.9212691
Znrf3	1283.88767	-0.0419549	0.27688763	-0.1515231	0.87956307	0.95385748
Mss51	74.3477309	-0.0420688	0.36407122	-0.1155511	0.9080083	0.96495598
Taar2	0.89725202	-0.0421756	0.19634264	-0.2148059	0.82991865	NA
Fgf20	0.89725202	-0.0421756	0.19634264	-0.2148059	0.82991865	NA
Gtf2i	10172.4579	-0.0422527	0.22329422	-0.1892244	0.84991696	0.94277489
Irf1	2640.57176	-0.042321	0.21632352	-0.1956375	0.84489389	0.94132069
Peak1	2667.65425	-0.0423736	0.19597531	-0.216219	0.82881701	0.93276402
Cfl2	5352.03089	-0.042384	0.25097656	-0.1688762	0.86589406	0.94814241
Maged1	14474.4102	-0.0424071	0.18166255	-0.2334388	0.81542068	0.92939072
Gzmc	2.10706357	-0.0424949	0.30889422	-0.1375712	0.89057933	NA
Gpr155	52.2100385	-0.042545	0.37320644	-0.1139986	0.90923892	0.96535634
Bsg	27632.0789	-0.0426001	0.21997471	-0.1936592	0.84644271	0.94147896
1110038B12F	4908.41244	-0.0426498	0.1866115	-0.2285485	0.81921988	0.93036217
Tmem205	945.100403	-0.0426569	0.30800389	-0.1384948	0.8898494	0.9580332
Exoc7	1948.82374	-0.0426592	0.15820878	-0.2696385	0.7874384	0.91657594
Slc36a4	37.2091443	-0.042721	0.40276023	-0.1060706	0.91552637	0.96836839
Dedd	2082.8739	-0.0428284	0.15066737	-0.2842581	0.77621257	0.91080372
Churc1	1470.6427	-0.0429223	0.20129322	-0.2132325	0.83114563	0.93389781
Mlst8	2199.74185	-0.0429235	0.1716005	-0.250136	0.80248221	0.92349559
Tmem154	6.21436477	-0.0429241	0.41152521	-0.1043049	0.91692736	0.96879329
Nhlh2	0.8072774	-0.0430046	0.21987902	-0.1955829	0.84493662	NA
Pdpk1	7604.24083	-0.0430466	0.23633482	-0.1821424	0.85547097	0.94458789
Asrgl1	2204.5892	-0.0430625	0.20461321	-0.2104582	0.83331004	0.93527477
Leo1	4603.59659	-0.0430928	0.19846662	-0.2171289	0.82810787	0.93250504
Rad51ap2	2.42314281	-0.0430958	0.33275242	-0.1295131	0.8969517	NA

4930544D05I	0.49560083	-0.0431468	0.17523914	-0.2462164	0.80551472	NA
Il1f9	0.49560083	-0.0431468	0.17523914	-0.2462164	0.80551472	NA
Gm15114	0.49560083	-0.0431468	0.17523914	-0.2462164	0.80551472	NA
Defb7	0.49560083	-0.0431468	0.17523914	-0.2462164	0.80551472	NA
Slain1os	0.49560083	-0.0431468	0.17523914	-0.2462164	0.80551472	NA
Foxp2	0.49560083	-0.0431468	0.17523914	-0.2462164	0.80551472	NA
Ipo11	12318.6246	-0.0432591	0.21755762	-0.1988396	0.84238826	0.94000676
Acsf2	5910.8234	-0.0433371	0.19951672	-0.2172104	0.82804439	0.93250504
Kctd16	1.79776269	-0.0433689	0.27291006	-0.1589128	0.8737376	NA
Wdr41	1519.41926	-0.0434054	0.19252939	-0.2254482	0.82163062	0.93076517
Nobox	8.62998415	-0.0434246	0.43116159	-0.1007153	0.9197765	0.96959357
Slc30a5	4421.71768	-0.0435271	0.15591316	-0.279175	0.78011051	0.91303519
Pcgf6	6130.11623	-0.0436305	0.1810154	-0.2410321	0.80953023	0.92748171
Snora64	133.387737	-0.0436955	0.34206211	-0.1277414	0.89835359	0.96162064
Fam188a	3063.50032	-0.0437287	0.18426569	-0.2373134	0.81241369	0.92872256
Arhgdib	87.6817473	-0.043735	0.43171597	-0.1013051	0.91930831	0.96953982
Pygm	375.095746	-0.0437379	0.29495318	-0.1482877	0.88211569	0.95521071
Cdkn2b	312.05782	-0.0437635	0.27686205	-0.1580698	0.87440184	0.95209515
Tsta3	2909.9606	-0.0438546	0.18676354	-0.2348137	0.81435336	0.92878688
Ep300	6798.86625	-0.0438758	0.26596476	-0.1649685	0.86896876	0.9493616
Ppih	3438.79583	-0.0439927	0.18196396	-0.241766	0.80896149	0.92698845
Dennd1c	204.064843	-0.044002	0.33930445	-0.1296829	0.89681735	0.96132877
Pde10a	72.6700341	-0.0440168	0.41690548	-0.1055797	0.9159158	0.9684122
Zmynd19	4353.36921	-0.0441454	0.15723791	-0.2807557	0.77889781	0.9124802
Trappc2	459.120372	-0.0442585	0.21502531	-0.2058291	0.83692441	0.93707333
Spc25	6435.04924	-0.0442873	0.22454955	-0.1972271	0.84364984	0.94081023
Ggcx	946.932203	-0.0442944	0.17013004	-0.2603559	0.79458929	0.91975523
4933427G17I	2.9678205	-0.0444172	0.36381319	-0.1220879	0.90282938	NA
Mir6915	0.87716906	-0.0445609	0.18130527	-0.2457784	0.80585379	NA
Chmp3	7940.58294	-0.044561	0.16098959	-0.2767942	0.78193813	0.91366142
Stxbp1	1025.75812	-0.0446614	0.25460316	-0.1754156	0.86075309	0.94567701
Hnrnph1	36235.1202	-0.0446766	0.16433202	-0.271868	0.78572353	0.91560784
Trim37	10696.2551	-0.0446774	0.18577922	-0.2404865	0.80995314	0.92748171
Bckdk	3842.95712	-0.0446898	0.18602973	-0.2402292	0.81015257	0.9275573
Npas3	4.69501569	-0.0447306	0.38752782	-0.1154256	0.90810779	NA
Mir367	0.88294053	-0.0447356	0.1956568	-0.2286431	0.81914633	NA
Cant1	2034.19254	-0.0447545	0.16790071	-0.2665534	0.78981302	0.91796579
Gm15708	6.1214899	-0.0448096	0.40642685	-0.1102525	0.91220915	0.96685963
2-Mar	11305.8391	-0.0448106	0.27770127	-0.1613625	0.87180792	0.95103716
Trio	1401.01159	-0.044906	0.29509184	-0.1521763	0.87904791	0.95374828
Bax	13345.9708	-0.045005	0.1915128	-0.2349976	0.81421063	0.92878688

Fxyd3	14.2736261	-0.0450629	0.42589719	-0.1058071	0.9157354	0.96836839
Edem2	2219.31544	-0.0451582	0.18333797	-0.2463111	0.80544141	0.9245899
1700029M20	23.3832424	-0.0451855	0.42646584	-0.1059534	0.91561934	0.96836839
Cab39	9946.50749	-0.0452014	0.15478263	-0.2920317	0.77026237	0.90826254
Sqstm1	14016.2144	-0.0452169	0.19947599	-0.2266782	0.82067399	0.930536
Chga	987.476129	-0.0452325	0.26660771	-0.1696593	0.86527807	0.94793514
Zfp647	288.932523	-0.0453233	0.24658404	-0.1838047	0.85416667	0.94431772
Cox15	3654.50342	-0.045339	0.19986243	-0.2268508	0.82053976	0.930536
Ndufs3	3231.42602	-0.0453852	0.17795132	-0.255043	0.79868989	0.92171351
Shisa2	508.501087	-0.0453925	0.37684226	-0.120455	0.90412275	0.96369802
Tfpi2	0.45381401	-0.0454019	0.1742317	-0.2605837	0.79441354	NA
1700036G14I	0.45381401	-0.0454019	0.1742317	-0.2605837	0.79441354	NA
1700025F24F	0.45381401	-0.0454019	0.1742317	-0.2605837	0.79441354	NA
lfltd1	0.45381401	-0.0454019	0.1742317	-0.2605837	0.79441354	NA
B3glct	2485.58317	-0.0454338	0.3591422	-0.1265064	0.89933105	0.96194986
Plekha7	5183.46799	-0.045442	0.22119922	-0.2054347	0.8372325	0.93732437
Bai1	429.477196	-0.045468	0.29578867	-0.153718	0.8778321	0.95329223
Echdc3	13.2032438	-0.0455832	0.43227036	-0.1054506	0.91601827	0.96842504
Ubac1	5116.16021	-0.0456242	0.18179854	-0.2509603	0.80184483	0.92325551
Nrxn3	0.51492902	-0.0458758	0.17564204	-0.2611894	0.79394648	NA
Gm5860	0.51492902	-0.0458758	0.17564204	-0.2611894	0.79394648	NA
Mir3569	0.51492902	-0.0458758	0.17564204	-0.2611894	0.79394648	NA
Ugt1a7c	0.51492902	-0.0458758	0.17564204	-0.2611894	0.79394648	NA
Pla2g4d	5.9319931	-0.0459206	0.38673791	-0.1187383	0.9054827	0.96404417
Zc3h12a	466.7644	-0.0459413	0.25713621	-0.1786653	0.85820048	0.9455234
Hsp90aa1	284240.824	-0.0460521	0.15116753	-0.3046425	0.76063841	0.90435844
Strn3	7417.69819	-0.0460745	0.1788709	-0.2575851	0.7967271	0.92070321
Slc35f6	1793.82493	-0.0460769	0.18308758	-0.2516658	0.80129936	0.92325551
Gm14325	2797.67405	-0.0461244	0.17529178	-0.2631294	0.79245087	0.918989
Smn1	3633.22724	-0.0462171	0.19571586	-0.236144	0.81332094	0.92878688
H2afv	5640.31077	-0.0463505	0.19165647	-0.2418413	0.80890313	0.92698845
Mir92-2	4.8976261	-0.0463618	0.40059457	-0.1157325	0.90786458	NA
4930456L15F	0.51768209	-0.0463792	0.17571617	-0.2639438	0.79182326	NA
Rnase11	0.51768209	-0.0463792	0.17571617	-0.2639438	0.79182326	NA
Gm19557	0.51768209	-0.0463792	0.17571617	-0.2639438	0.79182326	NA
Rpl26	0.51768209	-0.0463792	0.17571617	-0.2639438	0.79182326	NA
F830002L21R	0.51768209	-0.0463792	0.17571617	-0.2639438	0.79182326	NA
Cadm1	5572.12582	-0.0464225	0.15962155	-0.2908283	0.77118267	0.90875167
Tex9	2491.00999	-0.04643	0.18475238	-0.2513091	0.80157511	0.92325551
Tmem230	2168.67213	-0.0465096	0.20922726	-0.222292	0.82408655	0.93107393
Sec11c	859.63815	-0.0466409	0.19446845	-0.2398377	0.81045605	0.9275573

3110040N11	917.425357	-0.0466436	0.21658887	-0.2153556	0.82949007	0.93318383
Pole3	2046.35645	-0.0466629	0.17362281	-0.2687604	0.7881141	0.91705183
Ptpn5	1.53098115	-0.0467203	0.22674981	-0.2060432	0.83675716	NA
Vps26a	11644.3259	-0.0467289	0.14905163	-0.3135084	0.75389442	0.90191816
Cox8a	15887.964	-0.0467621	0.23526228	-0.198766	0.84244577	0.94000676
Diexf	2267.68793	-0.0467699	0.19422128	-0.2408075	0.80970432	0.92748171
Rab11b	2339.39657	-0.0467803	0.18341725	-0.2550487	0.79868547	0.92171351
Ddx51	2552.70201	-0.0468928	0.22754421	-0.2060821	0.83672677	0.93698697
Map2k6	2232.7494	-0.0470077	0.18658815	-0.2519327	0.80109306	0.92325551
Eif4e3	20.5515573	-0.047018	0.43006162	-0.1093286	0.91294185	0.96727157
Ggnbp2	8945.80221	-0.0471056	0.16126883	-0.2920936	0.77021507	0.90826254
Chdh	7.06704889	-0.0473194	0.39822377	-0.1188261	0.90541316	0.96404417
Dpysl2	742.115336	-0.0474396	0.27876747	-0.1701761	0.86487163	0.94756625
Cmtm6	8248.04871	-0.0474924	0.14916061	-0.3183978	0.7501832	0.90092664
Pak1ip1	9428.93018	-0.0475017	0.1590002	-0.2987525	0.76512887	0.90610594
Shcbp1l	80.3978366	-0.0475431	0.39404076	-0.1206554	0.90396398	0.96364421
Rnft1	2940.26148	-0.0475587	0.16713699	-0.2845493	0.77598946	0.91074808
Xrcc2	1974.27769	-0.0476029	0.20667729	-0.230325	0.81783927	0.93032
Opn1sw	0.78757183	-0.0476204	0.21880277	-0.2176406	0.82770916	NA
Zfp771	571.105971	-0.0476307	0.23721718	-0.2007893	0.84086336	0.93940315
Tm9sf4	6091.71037	-0.0477109	0.19968983	-0.2389253	0.81116354	0.92788711
Flcn	3715.75921	-0.0477829	0.19036902	-0.2510014	0.80181302	0.92325551
Cd300c	4.54251311	-0.0478291	0.39202943	-0.1220039	0.90289589	NA
CK137956	0.50777328	-0.0478299	0.17548035	-0.2725658	0.78518701	NA
Lmbr1l	1307.71484	-0.0478435	0.16757053	-0.2855125	0.77525155	0.91029675
C1ql4	11.3535101	-0.047972	0.42297626	-0.1134153	0.90970134	0.96564042
Smarcd3	1218.22051	-0.0479911	0.20492487	-0.2341885	0.81483864	0.92906779
Slc24a2	2.41221389	-0.0480956	0.29014038	-0.1657666	0.86834066	NA
Mesp1	4.19895853	-0.0481233	0.38642374	-0.1245349	0.90089174	NA
Dact1	285.352862	-0.0482183	0.36314973	-0.1327781	0.89436885	0.96024637
Hist1h4a	7.32409645	-0.0482473	0.41636048	-0.1158788	0.90774861	0.96495598
Lenep	112.529214	-0.0482613	0.29174661	-0.165422	0.86861187	0.9493136
Ctbp2	12470.4786	-0.0482727	0.20836874	-0.2316695	0.81679475	0.93007067
1700063D05I	0.51052635	-0.0483312	0.17555593	-0.2753036	0.78308299	NA
Myl1	0.51052635	-0.0483312	0.17555593	-0.2753036	0.78308299	NA
Pdxk	7251.85892	-0.0483511	0.1656893	-0.291818	0.77042577	0.90826254
Ddb2	1559.55749	-0.0483826	0.22310187	-0.2168634	0.82831479	0.93256314
Zmat5	2584.70488	-0.0483832	0.2063269	-0.2344978	0.81459854	0.92896417
Mettl16	5483.03358	-0.0483913	0.18149771	-0.266622	0.78976023	0.91796579
Pak7	5.65714334	-0.0484341	0.3982067	-0.1216306	0.90319156	NA
Brwd3	2727.42782	-0.0484777	0.24921218	-0.194524	0.84576564	0.94147896

Trpc4ap	6196.2681	-0.0485257	0.17561831	-0.2763135	0.78230728	0.91381112
Nudc	15771.0451	-0.0485329	0.20800323	-0.2333274	0.81550719	0.92942121
Smarcal1	3269.32932	-0.0486553	0.18394101	-0.2645156	0.79138264	0.91841727
Psmb7	16376.4126	-0.0486801	0.17430658	-0.2792784	0.78003119	0.91301107
Gm5294	0.47589526	-0.0487356	0.17476041	-0.2788712	0.78034367	NA
Dnph1	2281.03879	-0.0487475	0.18668799	-0.2611173	0.79400208	0.91975523
Hmgn2	4486.54172	-0.0487561	0.23048922	-0.2115331	0.83247131	0.934847
Acot13	1665.94172	-0.0488263	0.312535	-0.1562266	0.87585443	0.95264675
Gas7	426.384605	-0.0488973	0.37991117	-0.1287073	0.89758926	0.96153958
Parl	6397.19864	-0.0489925	0.17057408	-0.2872213	0.77394289	0.9099256
Smarce1	3761.77174	-0.0490056	0.16641804	-0.2944729	0.76839659	0.90683277
Paccin2	6452.82944	-0.0490101	0.18752865	-0.2613473	0.79382467	0.91974128
5830411N06I	1.10877982	-0.0490277	0.24229152	-0.2023499	0.83964318	NA
N28178	1.10877982	-0.0490277	0.24229152	-0.2023499	0.83964318	NA
Mrpl51	3975.11435	-0.04904	0.19693853	-0.2490119	0.8033516	0.92355442
Bik	78.6892849	-0.0490676	0.41092246	-0.1194083	0.90495189	0.96389773
A730020M07	2.19390773	-0.0490719	0.28429515	-0.172609	0.86295881	NA
Cd163l1	12.0566515	-0.0491063	0.42992687	-0.1142201	0.90906335	0.96531171
Ssna1	2626.2315	-0.0491928	0.22938338	-0.2144566	0.830191	0.93357834
Mtg2	1455.62337	-0.0491981	0.19735698	-0.2492846	0.80314061	0.92352256
Gm4788	1.43740889	-0.0492455	0.2825252	-0.174305	0.86162579	NA
Lman2	7655.01526	-0.049263	0.18150577	-0.2714127	0.78607364	0.9157961
Enc1	4500.26038	-0.0492911	0.28235416	-0.1745718	0.86141614	0.94590329
Slc34a2	1.87667477	-0.0493059	0.26496718	-0.186083	0.85237966	NA
Ddx59	1403.63587	-0.0493801	0.20852212	-0.2368097	0.81280442	0.92878688
Olf976	1.74644444	-0.0494794	0.30211642	-0.1637758	0.86990765	NA
Rabac1	2463.25262	-0.0495461	0.25753695	-0.1923846	0.84744094	0.94147896
Armc1	6334.47568	-0.049648	0.16764272	-0.2961534	0.76711295	0.90649963
Rpsud2	1831.55443	-0.0496527	0.21322478	-0.2328656	0.81586579	0.92967334
Ergic1	6613.27258	-0.0496997	0.22062876	-0.225264	0.8217739	0.93076517
Anp32a	39501.0429	-0.0497192	0.21834787	-0.2277062	0.81987461	0.93051161
Tnfrsf12a	477.875173	-0.049721	0.30147623	-0.1649251	0.86900291	0.9493616
Hey1	185.793499	-0.0497967	0.30650907	-0.1624641	0.87094037	0.95032231
Ergic3	4525.69545	-0.0498029	0.1891614	-0.2632827	0.79233272	0.918989
Rem2	28.4034807	-0.0499305	0.43226492	-0.1155091	0.90804159	0.96495598
Slk	7465.68126	-0.049992	0.1908995	-0.2618761	0.79341695	0.91954293
Sec16b	9.37714732	-0.0500057	0.41582533	-0.1202564	0.90428003	0.96369802
Myo1b	9523.40232	-0.0500279	0.21849494	-0.2289661	0.81889523	0.93036217
Cyp2b10	1.03536418	-0.0500443	0.18263265	-0.274016	0.78407232	NA
Stard5	1091.19553	-0.0500613	0.22221272	-0.2252855	0.82175716	0.93076517
Ache	1.13801682	-0.0500853	0.2408102	-0.2079867	0.83523938	NA

Mark2	4342.36651	-0.0501477	0.22902143	-0.218965	0.82667729	0.93181174
Zcwpw1	1172.72039	-0.0502012	0.31010768	-0.1618831	0.87139787	0.95068811
lkbkap	10345.7787	-0.0502473	0.18725703	-0.2683333	0.78844277	0.91719581
Phactr3	35.2269423	-0.0503468	0.40799982	-0.123399	0.90179115	0.96270877
Mrpl40	5368.27291	-0.0503531	0.16304765	-0.3088243	0.7574552	0.90301693
Cdh9	3.88190043	-0.0503542	0.33936287	-0.1483787	0.88204391	NA
Kcnj6	1.82010927	-0.0503618	0.30461204	-0.1653309	0.8686835	NA
Ulk4	222.733873	-0.0504211	0.27118418	-0.1859294	0.8525001	0.94417652
Rita1	699.079668	-0.0504384	0.21967083	-0.2296089	0.81839571	0.93032688
Izumo2	43.4440282	-0.0504915	0.39824781	-0.1267842	0.89911121	0.96182696
Zfp334	376.32306	-0.050578	0.28274952	-0.1788791	0.85803262	0.9455234
Lzts3	561.925778	-0.0506306	0.201567	-0.2511847	0.80167129	0.92325551
LOC10166976	174.708425	-0.0506484	0.25792899	-0.1963655	0.84432409	0.94115145
Sim2	3.74689647	-0.0507085	0.35439647	-0.1430841	0.88622373	NA
Zfp637	479.251987	-0.0507546	0.22212944	-0.2284913	0.81926432	0.93036217
Snrpd2	6876.31521	-0.0507886	0.20927538	-0.2426878	0.80824724	0.92664795
Exosc1	3094.88826	-0.0508138	0.14810445	-0.3430944	0.73152744	0.89154993
Rhd	222.74584	-0.0508831	0.36150385	-0.140754	0.8880643	0.95725292
Emc7	2098.4869	-0.0509152	0.16470624	-0.3091271	0.75722484	0.90301693
Gm9376	0.52985453	-0.0509164	0.17594479	-0.2893884	0.77228413	NA
Akr1e1	1056.47049	-0.0509507	0.30678026	-0.1660821	0.86809236	0.94921278
Jade3	6912.75643	-0.0509625	0.20290675	-0.2511622	0.80168871	0.92325551
Pcbp1	26774.0247	-0.0510172	0.15980332	-0.3192497	0.74953716	0.90084943
Zbtb43	4548.22679	-0.0511391	0.20076282	-0.2547238	0.79893647	0.92171351
Capg	1137.34711	-0.0511498	0.38108488	-0.1342216	0.89322736	0.95975807
Npy4r	4.71605528	-0.0513354	0.39023293	-0.1315506	0.89533973	NA
Kcnc2	7.69419676	-0.0513816	0.41559727	-0.1236332	0.9016057	0.96270877
Ldlrad4	148.259187	-0.051391	0.31173498	-0.1648549	0.86905822	0.9493616
Wnt1	0.49522345	-0.0514106	0.17518302	-0.2934679	0.76916453	NA
Rbms2	6491.72458	-0.0514201	0.18541417	-0.2773258	0.78152995	0.91337854
Hist1h2bf	0.55633846	-0.0514864	0.17646487	-0.2917656	0.77046585	NA
C130026L21F	0.55633846	-0.0514864	0.17646487	-0.2917656	0.77046585	NA
Lcn4	0.55633846	-0.0514864	0.17646487	-0.2917656	0.77046585	NA
Fbxl12	1573.18001	-0.0515328	0.20091507	-0.2564903	0.79757224	0.9212691
1810062G17I	1.20452591	-0.0515505	0.24315429	-0.2120072	0.83210142	NA
4933405L10F	16.4239243	-0.0515633	0.43098097	-0.1196416	0.90476706	0.96383289
Ralgapa1	2843.39612	-0.0518163	0.21532181	-0.2406456	0.80982978	0.92748171
lsm2	1092.48311	-0.0518555	0.20891724	-0.2482109	0.80397127	0.92388669
Zbtb11	3359.33297	-0.0518556	0.21877452	-0.2370275	0.81263547	0.92878688
Slc13a2	85.0523304	-0.051879	0.37645833	-0.137808	0.89039213	0.9584185
Mir7662	0.49797652	-0.0519085	0.17526131	-0.296178	0.76709414	NA

Mir3070a	0.49797652	-0.0519085	0.17526131	-0.296178	0.76709414	NA
4930556C24f	0.49797652	-0.0519085	0.17526131	-0.296178	0.76709414	NA
Olf523	0.49797652	-0.0519085	0.17526131	-0.296178	0.76709414	NA
Snora47	0.49797652	-0.0519085	0.17526131	-0.296178	0.76709414	NA
6530411M01	0.49797652	-0.0519085	0.17526131	-0.296178	0.76709414	NA
1700026D11l	0.49797652	-0.0519085	0.17526131	-0.296178	0.76709414	NA
Thoc1	5889.23917	-0.0520623	0.18846424	-0.2762448	0.78236006	0.91381112
Commd5	1655.65201	-0.0521013	0.20098677	-0.2592276	0.79545966	0.92026433
Bricd5	7.19670289	-0.0521518	0.42074017	-0.1239525	0.90135292	0.96269291
Metap1	6412.16164	-0.0521549	0.14419245	-0.3617034	0.71757368	0.88521246
Arfp2	2742.35827	-0.0522599	0.19691428	-0.2653941	0.79070591	0.91829081
Pldi	0.8415311	-0.0523332	0.22203794	-0.2356951	0.81366931	NA
Ccl3	2.1489402	-0.052355	0.27564223	-0.1899384	0.84935743	NA
Gm4792	0.93988342	-0.0523815	0.19792816	-0.2646493	0.79127967	NA
Dapl1	1.02105269	-0.0523956	0.18253491	-0.2870441	0.77407854	NA
Sgk1	30180.4708	-0.0524086	0.19266464	-0.2720198	0.78560681	0.91560784
Wipf1	427.029819	-0.0524143	0.36072747	-0.1453016	0.88447274	0.95575952
lqca	604.417459	-0.0525271	0.41966243	-0.1251651	0.90039287	0.96260206
Ttc30a1	677.608967	-0.0525334	0.22809923	-0.2303095	0.81785124	0.93032
Ctr9	6394.62368	-0.0525356	0.16717992	-0.3142456	0.75333451	0.90191816
Hspd1	65723.724	-0.0525916	0.24109719	-0.2181344	0.82732437	0.93199444
Birc3	573.354799	-0.0526419	0.27536438	-0.1911719	0.84839095	0.94204411
Nploc4	6565.40022	-0.0526836	0.21041508	-0.2503796	0.80229381	0.92349342
Mboat1	93.9423349	-0.0527243	0.31669772	-0.1664816	0.86777795	0.94908142
Rc3h2	2997.10293	-0.0528223	0.22381853	-0.2360052	0.81342866	0.92878688
Pcgf2	3716.95227	-0.0528364	0.15538197	-0.340042	0.73382487	0.892514
Xirp2	9.25516014	-0.0528461	0.25803099	-0.2048053	0.83772422	0.93751696
Fam195a	488.750684	-0.0529049	0.29573356	-0.1788939	0.85802105	0.9455234
Mtpn	10527.6931	-0.0529127	0.19894887	-0.2659611	0.79026914	0.91812832
Ttc21a	68.1218922	-0.0529415	0.38651969	-0.1369698	0.8910547	0.95858894
Snora21	27.1199506	-0.0529885	0.42390079	-0.1250021	0.90052188	0.9626738
Ppp1r14b	4015.72406	-0.0530075	0.19518275	-0.2715789	0.78594583	0.91579114
Fam179b	4047.95772	-0.0530412	0.2460135	-0.2156029	0.82929729	0.93304824
Snhg7	935.010472	-0.0530635	0.26857441	-0.1975747	0.84337786	0.94064184
Magea2	12.5251148	-0.0530705	0.43108616	-0.1231088	0.90202097	0.96270877
Pum1	12850.2924	-0.0531158	0.20549919	-0.2584721	0.79604257	0.92059627
Phf6	2371.16074	-0.0531402	0.20696281	-0.2567619	0.79736261	0.92123224
Fam193b	4103.74981	-0.0532282	0.20651918	-0.2577395	0.79660793	0.92070321
Ccdc107	1168.97755	-0.05327	0.28187062	-0.1889874	0.85010273	0.94280042
Med17	6237.62628	-0.053346	0.14514573	-0.3675337	0.71322093	0.88405059
Fam71e1	29.3248999	-0.0533581	0.4304769	-0.123951	0.90135405	0.96269291

Mir191	0.54918271	-0.0534031	0.17631735	-0.3028805	0.76198091	NA
Mfsd7a	65.8084055	-0.0534034	0.35227566	-0.1515955	0.87950601	0.95385748
Mir7003	4.55204453	-0.0535428	0.39295317	-0.1362575	0.8916177	NA
Cxcr4	96.8782885	-0.0535469	0.32857595	-0.1629667	0.87054465	0.9501572
Nhej1	328.435176	-0.0536363	0.21176436	-0.2532828	0.8000497	0.92248631
Snrpa1	8702.5743	-0.0536543	0.19807057	-0.2708847	0.78647971	0.91606931
Agpat6	4368.23843	-0.053679	0.24859373	-0.2159305	0.82904193	0.93288213
Slc25a38	1176.76225	-0.0537288	0.23687389	-0.2268246	0.82056013	0.930536
Gm4944	582.583086	-0.0537425	0.21658548	-0.2481353	0.80402969	0.92388669
Tmbim6	12884.4481	-0.053775	0.18500731	-0.2906642	0.77130816	0.90875167
Kpna7	16.9381984	-0.0537852	0.43155263	-0.124632	0.90081493	0.96269291
Ppm1d	2493.4584	-0.0539612	0.19578696	-0.2756117	0.78284632	0.91399508
Nicn1	1357.10344	-0.054043	0.23499491	-0.2299752	0.81811102	0.93032296
Ahdc1	4266.2941	-0.0540591	0.24786811	-0.2180963	0.82735407	0.93199444
Ergic2	7392.71572	-0.0541144	0.17156122	-0.3154234	0.75244023	0.90182644
Gm20594	0.86801502	-0.0541257	0.22350786	-0.2421648	0.80865243	NA
6720483E21F	41.4799089	-0.0542263	0.42676594	-0.1270632	0.89889037	0.96168428
Tra2a	18872.6622	-0.0543154	0.14845404	-0.3658732	0.71445971	0.88425449
Zbtb48	895.441862	-0.0543733	0.20306791	-0.2677594	0.78888453	0.91750381
Zbtb7c	116.81068	-0.0544108	0.4088343	-0.1330876	0.89412407	0.96010139
Tssk1	0.5173047	-0.0544589	0.17566229	-0.3100206	0.75654526	NA
1700006H21I	0.5173047	-0.0544589	0.17566229	-0.3100206	0.75654526	NA
Mir7004	0.5173047	-0.0544589	0.17566229	-0.3100206	0.75654526	NA
Spata19	0.5173047	-0.0544589	0.17566229	-0.3100206	0.75654526	NA
Rnu12	0.5173047	-0.0544589	0.17566229	-0.3100206	0.75654526	NA
Gm8363	0.5173047	-0.0544589	0.17566229	-0.3100206	0.75654526	NA
Plcb4	1881.35834	-0.0546164	0.25743083	-0.2121595	0.83198259	0.93450064
Ggps1	1963.15947	-0.0546524	0.17488929	-0.3124971	0.75466279	0.90191816
Fuz	570.268142	-0.0547347	0.23243777	-0.2354812	0.81383529	0.92878688
Slc51b	0.87076809	-0.054745	0.22365891	-0.2447701	0.80663445	NA
Prrg4	1328.15552	-0.0547667	0.312558	-0.175221	0.86090601	0.94567701
Mir8103	1.42761213	-0.054924	0.28711056	-0.1912993	0.84829111	NA
Ctss	9.6934474	-0.0549401	0.41960747	-0.1309321	0.89582906	0.96083244
Cnot10	10348.0883	-0.0549516	0.18340335	-0.2996218	0.76446565	0.90596301
Dennd1b	2646.3188	-0.0549733	0.23229919	-0.2366487	0.81292931	0.92878688
Hemt1	4.04403101	-0.0550252	0.38308009	-0.1436389	0.88578563	NA
1810021B22F	2.09512777	-0.0550277	0.31448588	-0.1749766	0.86109805	NA
Foxp3	3.31275934	-0.0551094	0.38357983	-0.1436713	0.88576003	NA
Ftcd	3.02841128	-0.0552327	0.33403485	-0.1653501	0.86866844	NA
Cdc34	13467.2148	-0.0552474	0.21614978	-0.2555976	0.79826156	0.92164102
Dnajc13	11245.1542	-0.0552506	0.26513922	-0.2083833	0.83492966	0.93631091

Nat9	680.84229	-0.0552984	0.30798423	-0.1795494	0.85750633	0.94538792
Snapin	3319.33267	-0.0553063	0.20937227	-0.2641531	0.79166198	0.91860434
Cd47	516.104849	-0.0554111	0.2442551	-0.2268576	0.82053446	0.930536
Ccdc50	4707.26486	-0.0554193	0.19270593	-0.287585	0.77366442	0.9098882
Fads2	7446.6369	-0.0554202	0.18019175	-0.3075624	0.75841533	0.90307174
Fam135b	2.64140413	-0.0554302	0.2523793	-0.2196305	0.82615896	NA
Nkx3-1	31.7085151	-0.0554423	0.43090654	-0.1286642	0.89762334	0.96153958
Slc22a12	1.4523344	-0.0555006	0.28426226	-0.1952442	0.84520174	NA
Aurkc	2695.5178	-0.0555263	0.4317485	-0.1286081	0.89766778	0.96153958
Gpr180	1512.82298	-0.055613	0.18364419	-0.3028301	0.76201934	0.9048709
P4hb	47280.7108	-0.0557436	0.15787992	-0.3530759	0.72403154	0.88829071
Myzap	39.2319367	-0.0557582	0.36840898	-0.1513488	0.8797006	0.95385748
Fgf23	61.1564153	-0.0557624	0.41246373	-0.1351934	0.89245893	0.9595291
Orc4	5678.90819	-0.0558156	0.20656763	-0.2702051	0.78700249	0.9162057
Pdia5	3900.84531	-0.0558547	0.1776331	-0.3144387	0.75318784	0.90191816
Slc25a4	17526.9722	-0.0558815	0.27894387	-0.2003324	0.84122062	0.93940315
Ntn1	3606.31484	-0.0559857	0.29190285	-0.1917957	0.84790224	0.94163591
H2-DMa	166.575252	-0.0560241	0.28475775	-0.196743	0.84402868	0.94103803
Dmxl2	1808.13853	-0.0560678	0.25464819	-0.2201776	0.82573282	0.93152509
ldh3b	9932.69505	-0.0561382	0.16411033	-0.3420758	0.73229382	0.891798
Lpgat1	4384.66469	-0.056156	0.22688696	-0.2475067	0.8045161	0.92394305
Rab22a	1450.48289	-0.0562212	0.17686135	-0.3178828	0.75057385	0.90097402
Acer3	1393.07622	-0.056348	0.23585768	-0.2389069	0.81117776	0.92788711
Fam228b	96.1904246	-0.0564226	0.3417884	-0.1650804	0.86888068	0.9493616
Hspg2	14374.434	-0.0565242	0.28806842	-0.1962181	0.84443949	0.94115145
Gtf3a	2759.16253	-0.0565766	0.15836593	-0.3572526	0.72090269	0.88656328
Tmem229a	11.6611926	-0.0565874	0.42729202	-0.1324326	0.89464209	0.96034922
Papd4	3086.86561	-0.0566175	0.16852373	-0.3359613	0.73690004	0.89391803
Polr1b	7328.2583	-0.0567681	0.25373565	-0.2237293	0.82296794	0.93107393
Sarm1	768.273844	-0.0567795	0.21330554	-0.2661887	0.79009387	0.91812832
D330050I16R	74.2153857	-0.0568645	0.31001977	-0.1834223	0.85446668	0.94447447
Btd	564.621664	-0.0569665	0.22100937	-0.2577562	0.7965951	0.92070321
Tmem57	3287.72993	-0.0569865	0.16128595	-0.3533257	0.72384426	0.88829071
Snora52	96.6029984	-0.0569969	0.38741905	-0.1471196	0.8830376	0.95561014
Osbp13	850.207176	-0.057	0.29861557	-0.190881	0.84861882	0.94216258
Capn5	4674.04071	-0.0570731	0.20918427	-0.2728366	0.78497879	0.9153312
Nppb	47.6052449	-0.0570772	0.4001909	-0.1426249	0.88658642	0.95661824
B230206H07I	1.50052219	-0.0571222	0.26218973	-0.2178657	0.82753372	NA
Tollip	3637.4382	-0.0571272	0.17492359	-0.3265839	0.74398265	0.89792443
Pdpr	1154.42058	-0.0571293	0.33308998	-0.171513	0.86382043	0.94702747
Pdx1	4.9031477	-0.0571768	0.39854166	-0.1434651	0.88592284	NA

Sepp1	110.915058	-0.0571865	0.40389692	-0.1415868	0.88740636	0.95687535
Ctnna3	1.12848539	-0.0572104	0.26988823	-0.2119781	0.83212412	NA
St7l	509.571105	-0.057313	0.19250388	-0.2977241	0.76591378	0.90618168
Sec14l3	10.1183626	-0.0574255	0.4313566	-0.1331277	0.89409243	0.96010139
Snord42a	39.396727	-0.0575152	0.37665083	-0.1527016	0.8786336	0.95349833
Stx1a	283.715831	-0.0575235	0.25136345	-0.2288461	0.81898852	0.93036217
Sec31a	12965.6616	-0.0575808	0.22097033	-0.2605815	0.79441527	0.91975523
Tmem198b	803.766084	-0.0576251	0.22787506	-0.2528801	0.80036084	0.92264456
Trim28	90425.2284	-0.0577076	0.21395781	-0.2697146	0.78737979	0.91657594
Kctd7	380.703466	-0.0578098	0.2056822	-0.2810636	0.77866159	0.91243813
Mlf2	17045.9549	-0.0578793	0.18235091	-0.3174063	0.75093535	0.90106448
Atp6ap1l	2.53592476	-0.0579292	0.31185641	-0.185756	0.85263611	NA
Zfp707	708.40508	-0.0580248	0.23255002	-0.2495153	0.80296219	0.92352256
Aldh8a1	1.89990975	-0.0581096	0.27606101	-0.2104954	0.83328104	NA
Crct1	0.89009628	-0.0581357	0.22473121	-0.2586899	0.7958745	NA
Zfp536	8.75131255	-0.0581885	0.42276837	-0.1376368	0.89052747	0.9584185
Zfp329	1431.07801	-0.0582596	0.20037147	-0.2907579	0.7712365	0.90875167
LOC10003894	1.17227051	-0.0582771	0.24220096	-0.2406146	0.80985387	NA
Rbm12b2	1328.12208	-0.0584427	0.16867296	-0.3464854	0.72897799	0.89031153
Wdr5	32394.5591	-0.0585018	0.17866101	-0.327446	0.74333056	0.89745937
Mlc1	1.08741495	-0.0585372	0.18303109	-0.3198209	0.74910409	NA
Lrwd1	4921.32012	-0.0585413	0.18580738	-0.3150643	0.75271282	0.90191816
Ppp2cb	7007.19363	-0.0585651	0.17029371	-0.3439062	0.73091685	0.89127954
Ppp3r1	7548.89052	-0.0586388	0.19320814	-0.3035006	0.76150839	0.90466935
Taf3	1996.87148	-0.058645	0.20908944	-0.280478	0.77911078	0.91248318
Xpot	16618.5275	-0.0586683	0.16845029	-0.3482824	0.72762808	0.88986097
Polr3g	9420.0119	-0.0586768	0.14581299	-0.4024111	0.68738148	0.87088718
Stk32c	5.00537555	-0.058721	0.34128524	-0.1720584	0.86339164	NA
Vamp2	1127.08324	-0.0587671	0.21098426	-0.2785378	0.78059952	0.91308099
LOC10105604	4696.91663	-0.0588173	0.21368236	-0.2752555	0.78311991	0.91408074
Tmem241	344.989053	-0.0588258	0.2645782	-0.222338	0.82405073	0.93107393
Bivm	1986.4089	-0.0589005	0.17349623	-0.3394917	0.73423934	0.89274089
Ndufa12	2343.71931	-0.0589131	0.2253484	-0.2614311	0.7937601	0.91974128
Nelfa	4606.09419	-0.0589391	0.15880291	-0.3711465	0.71052841	0.88211938
Tbc1d19	1271.76458	-0.0589576	0.16422559	-0.3590039	0.71959215	0.88592422
Cyp4f41-ps	29.9685863	-0.0589985	0.40287118	-0.1464451	0.88357	0.95568774
Mrps17	3551.53259	-0.0590055	0.19827535	-0.2975937	0.76601332	0.90618168
Dctn1	5136.23425	-0.0590177	0.22358146	-0.263965	0.79180692	0.91870398
Hhla1	1.36196626	-0.059122	0.21780509	-0.2714445	0.78604919	NA
Uxs1	1929.79172	-0.0591232	0.16404923	-0.3603992	0.71854865	0.88550762
Cxcl14	415.50873	-0.0591644	0.40475743	-0.1461724	0.88378531	0.95568774

Gm438	1.15496932	-0.0591777	0.2707932	-0.2185345	0.82701265	NA
Snhg6	5695.48264	-0.0592279	0.29475826	-0.2009373	0.84074758	0.93940315
Dbr1	3102.44345	-0.0592503	0.18456055	-0.3210347	0.74818411	0.90057336
Fibp	1736.78147	-0.0592701	0.23204379	-0.2554265	0.79839369	0.92164102
Cluap1	1599.40412	-0.059274	0.20675567	-0.286686	0.77435275	0.91001261
Cldnd2	4.90451651	-0.0593614	0.41210178	-0.1440455	0.88546455	NA
Fam78a	1162.37768	-0.0593727	0.28583395	-0.2077176	0.83544949	0.93656826
Gatad2a	12636.5313	-0.0593754	0.23232141	-0.2555744	0.79827952	0.92164102
Cacna1b	37.9365683	-0.0594596	0.41200016	-0.1443193	0.88524833	0.95578308
Cnksr3	1179.51002	-0.0595401	0.23545273	-0.2528748	0.80036494	0.92264456
Ccdc42	1.72507956	-0.0595822	0.23229176	-0.2564972	0.79756691	NA
Gm11487	2.54859308	-0.0596473	0.31311167	-0.1904986	0.84891845	NA
Begain	120.780701	-0.0596838	0.27884485	-0.2140394	0.83051631	0.9337556
Smim20	1221.67338	-0.0597974	0.21743743	-0.2750099	0.78330865	0.91416382
Fam124a	31.387342	-0.0598203	0.41045163	-0.1457427	0.88412451	0.95575952
Rtf1	6328.00069	-0.0598478	0.17892686	-0.3344819	0.73801598	0.89447493
Hist1h2ac	1.51344941	-0.0600631	0.2889532	-0.2078644	0.83533487	NA
Qtrt1	3211.8085	-0.060083	0.19127268	-0.3141223	0.75342813	0.90191816
Psm2	16255.6452	-0.0601044	0.16518357	-0.3638642	0.71595941	0.88472721
Ppp2r5a	3862.71151	-0.060169	0.20231134	-0.297408	0.76615502	0.90618168
Cldn4	4242.07022	-0.0601863	0.27590842	-0.2181388	0.82732099	0.93199444
Tesk2	2597.73738	-0.0601937	0.16696368	-0.3605196	0.71845862	0.88550762
Dnajc5b	26.9941418	-0.060205	0.42831857	-0.1405612	0.88821657	0.95728435
Ppp4c	11878.8483	-0.060235	0.187971	-0.3204486	0.74862827	0.900659
Arrdc1	753.375474	-0.0602823	0.2554238	-0.2360091	0.8134256	0.92878688
Cyhr1	3031.92467	-0.0603314	0.18980619	-0.3178579	0.75059275	0.90097402
Arel1	2724.3694	-0.0603469	0.19339293	-0.3120431	0.7550078	0.90191816
Cntnap4	1.1896004	-0.0603865	0.2718701	-0.2221153	0.82422414	NA
Tmem184b	3466.0717	-0.0604188	0.19643918	-0.3075698	0.75840967	0.90307174
Dusp15	11.710784	-0.0604651	0.43219664	-0.1399018	0.88873758	0.95743646
Mief1	4714.87521	-0.0604724	0.20124153	-0.3004964	0.76379852	0.90552953
Tmtc1	555.762637	-0.0605482	0.34592558	-0.1750325	0.86105413	0.94574328
Tmem33	4509.75852	-0.0605521	0.1629385	-0.3716257	0.71017158	0.88195802
Mrvi1	15.4024648	-0.0605546	0.428683	-0.1412573	0.88766665	0.95695696
Gm11651	0.97413712	-0.0606239	0.20221004	-0.2998067	0.76432464	NA
2700060E02F	16317.0365	-0.0606572	0.21882018	-0.2772013	0.78162552	0.91337854
Zfp286	683.062928	-0.0606669	0.30044458	-0.2019237	0.83997638	0.93900315
Pyroxd1	891.823691	-0.0606796	0.16744331	-0.3623887	0.71706158	0.88488973
Pomp	8708.57956	-0.060849	0.19537626	-0.311445	0.75546232	0.90203956
Mpg	1277.64989	-0.0609209	0.25322533	-0.2405798	0.80988084	0.92748171
Atp5j	13399.8397	-0.0609262	0.16700075	-0.3648262	0.71524117	0.88470138

Sfxn3	1860.07546	-0.0609551	0.1876945	-0.324757	0.74536502	0.89871411
Pnp	4353.13125	-0.060991	0.23642125	-0.257976	0.7964254	0.92070321
Cnih1	5092.24216	-0.0610202	0.17353175	-0.3516373	0.72511028	0.88898579
Vrk3	2049.39672	-0.0610892	0.16938378	-0.3606553	0.71835717	0.88550762
Fcgr1	0.87754645	-0.0611321	0.22416308	-0.2727124	0.7850743	NA
Hist2h2ab	0.87754645	-0.0611321	0.22416308	-0.2727124	0.7850743	NA
I7Rn6	3807.72329	-0.0611678	0.26399515	-0.2317004	0.81677074	0.93007067
Coq10a	892.215578	-0.061308	0.27024177	-0.2268636	0.8205298	0.930536
Uqcrc1	18525.5305	-0.0613964	0.17417198	-0.3525045	0.72445997	0.88863204
Suv420h1	4158.03965	-0.0614372	0.17107675	-0.3591209	0.71950461	0.88592422
Hspbap1	8482.88355	-0.0615389	0.21316796	-0.2886875	0.77282051	0.90962818
Cyb5r4	4019.15916	-0.061546	0.22897727	-0.2687864	0.78809406	0.91705183
Pacrgl	785.428697	-0.0615926	0.17714704	-0.3476917	0.7280717	0.88997352
Cib2	29.866869	-0.0616813	0.42370473	-0.1455763	0.88425592	0.95575952
Desi2	3634.40512	-0.061717	0.20910496	-0.2951485	0.76788044	0.90649963
Cdh10	6.56628994	-0.061747	0.37345649	-0.1653393	0.86867695	0.94931801
Dhx30	7914.15506	-0.0617592	0.17836751	-0.3462468	0.72915723	0.89032067
Scd2	105809.953	-0.0618326	0.20092181	-0.3077447	0.75827657	0.90307174
Immt	24188.4139	-0.061902	0.16339391	-0.3788511	0.70479844	0.87942876
Spty2d1	1312.90682	-0.0619306	0.22619279	-0.2737955	0.78424177	0.91477226
Irak1	4263.1192	-0.0619478	0.16210313	-0.3821506	0.70234965	0.87879687
Cdc42ep1	187.239666	-0.0620005	0.28498863	-0.2175542	0.82777646	0.9324027
Hnrnpa2b1	68007.2126	-0.0621334	0.18396363	-0.3377481	0.73555303	0.89343006
Ythdf2	8202.53516	-0.062157	0.19447213	-0.3196193	0.74925695	0.90084943
Tgfbr1	3535.30191	-0.0621772	0.24547577	-0.2532927	0.80004207	0.92248631
Ghrh	0.97689019	-0.062277	0.20422411	-0.3049446	0.76040837	NA
Fbxo10	626.40051	-0.06232	0.21125771	-0.294995	0.76799772	0.90649963
Map4k1	2995.69471	-0.0624003	0.16658525	-0.374585	0.70796915	0.88112271
Plcl1	9.6761681	-0.0624659	0.42715484	-0.1462372	0.88373417	0.95568774
Gm5464	2.90543904	-0.0625046	0.30160339	-0.2072409	0.83582173	NA
Dnajc30	658.226416	-0.062515	0.20267152	-0.308455	0.75773615	0.90307174
Plcb3	9039.44283	-0.0626186	0.19682961	-0.3181359	0.75038184	0.90095125
Usf2	2153.28717	-0.0626341	0.17198261	-0.3641888	0.715717	0.88472721
Gm8801	48.1561314	-0.0626484	0.32308603	-0.1939064	0.84624917	0.94147896
Tagap	121.785267	-0.0626747	0.33819728	-0.1853201	0.852978	0.94423839
Vwc2	1.1915987	-0.0627532	0.24559076	-0.2555194	0.798322	NA
Lage3	3014.44304	-0.0627784	0.21834883	-0.2875141	0.77371869	0.9098882
Gabrq	0.92970927	-0.0627953	0.20007665	-0.3138562	0.75363023	NA
Gm5800	0.87039071	-0.0628135	0.22382774	-0.2806334	0.77899156	NA
Dennd2c	8987.43056	-0.0628418	0.18070036	-0.347768	0.72801445	0.88997348
Smok2a	3.20532055	-0.0628765	0.33218915	-0.1892791	0.84987404	NA

P2rx2	194.310274	-0.062952	0.35401508	-0.1778228	0.85886213	0.9455234
Sectm1a	3.39642279	-0.0629525	0.34258605	-0.1837568	0.85420426	NA
Tmem216	606.110251	-0.0630856	0.18059824	-0.3493146	0.72685311	0.88950684
Sbno2	3481.58663	-0.0631284	0.2050074	-0.3079323	0.75813387	0.90307174
Sars2	2032.05223	-0.0631536	0.18880696	-0.3344877	0.73801153	0.89447493
Selt	13045.7912	-0.0631747	0.20458749	-0.3087906	0.7574808	0.90301693
Ormdl3	1666.72068	-0.0632125	0.19170427	-0.3297399	0.74159654	0.89649936
Krtap4-13	0.62820685	-0.0632315	0.17816309	-0.354908	0.72265851	NA
Rsc1a1	0.62820685	-0.0632315	0.17816309	-0.354908	0.72265851	NA
Olf773	0.62820685	-0.0632315	0.17816309	-0.354908	0.72265851	NA
Gtpbp8	391.065333	-0.0632365	0.26661252	-0.237185	0.81251323	0.92873159
Apoa1bp	2756.04834	-0.06325	0.22495811	-0.2811635	0.77858503	0.91241717
Scn3b	168.027292	-0.0633304	0.32602466	-0.1942504	0.84597983	0.94147896
Islr	2.50955933	-0.0633416	0.3183341	-0.1989784	0.84227962	NA
Gpr50	17.4110241	-0.0633562	0.43224419	-0.146575	0.88346746	0.95568774
Cebpg	2704.71406	-0.063404	0.23249383	-0.2727126	0.78507411	0.9153312
Piwil1	110.227248	-0.0634057	0.29668046	-0.213717	0.83076775	0.9337556
Bag6	15503.6705	-0.0635075	0.20121355	-0.3156222	0.75228928	0.90182644
Polr3c	2915.83771	-0.0636645	0.19352766	-0.3289683	0.74217967	0.8968469
Cnst	1503.16876	-0.0636909	0.20045925	-0.3177249	0.75069364	0.90098301
4930426L09F	3.3894078	-0.0637231	0.37997499	-0.1677035	0.86681652	NA
Mrpl48	1320.10419	-0.0638094	0.24581205	-0.2595859	0.79518319	0.92001293
Cd300lg	1.02820844	-0.0638539	0.20241095	-0.3154665	0.75240749	NA
Recql	2881.55048	-0.0638685	0.15262343	-0.4184711	0.67560273	0.8644313
Themis2	30.2027949	-0.0639249	0.3903988	-0.1637425	0.86993385	0.94982386
Dysf	339.994237	-0.0639588	0.28188474	-0.2268969	0.82050395	0.930536
Tsc22d2	1765.11499	-0.0640125	0.21366236	-0.2995965	0.76448496	0.90596301
Cps1	27.552069	-0.064035	0.41048979	-0.1559966	0.87603571	0.95264675
Frat2	540.511673	-0.0641326	0.24765588	-0.2589584	0.79566735	0.92042659
Zc3h11a	14830.1254	-0.0641698	0.15907401	-0.4033959	0.68665702	0.87055301
Gnmt	94.4621943	-0.0641876	0.38276689	-0.1676937	0.86682423	0.94862657
Usp12	3264.96707	-0.0642161	0.20245371	-0.3171891	0.75110009	0.90112308
Dhps	2268.48047	-0.0642503	0.22635171	-0.2838518	0.77652394	0.91103159
Rprd2	3858.92478	-0.0642529	0.21672528	-0.2964716	0.76686993	0.90649963
Asah2	45.4506011	-0.0643563	0.35410525	-0.1817434	0.85578412	0.94458789
Snap23	3846.43007	-0.0643566	0.17680235	-0.364003	0.71585577	0.88472721
Usp11	2437.34369	-0.0643725	0.25253461	-0.2549058	0.79879586	0.92171351
Myl6b	285.314401	-0.0643767	0.38835829	-0.1657661	0.86834099	0.9493136
Ahsa1	20918.0196	-0.0644282	0.18417725	-0.3498162	0.72647665	0.88950597
Mir343	4.62885529	-0.0644334	0.40218412	-0.1602087	0.87271666	NA
Akirin2	5646.11901	-0.0644536	0.17197592	-0.3747825	0.7078222	0.88112271

Kmt2a	4932.68406	-0.0645551	0.29020514	-0.2224465	0.82396629	0.93107393
Golt1a	23.9062033	-0.0646027	0.42143898	-0.1532908	0.87816892	0.95329223
2310068J16R	26.1850011	-0.0646357	0.39509779	-0.1635942	0.87005059	0.94988464
Pknx1	2427.66068	-0.0646411	0.17993863	-0.3592395	0.71941589	0.88592422
Pnkd	2301.2985	-0.0646424	0.19890009	-0.3249992	0.74518166	0.89859801
Gml	1.16714176	-0.0646903	0.27127494	-0.2384676	0.81151845	NA
Aspg	232.070939	-0.0647913	0.32147708	-0.2015424	0.84027446	0.93906635
Rad23b	27589.7106	-0.0648254	0.15861733	-0.4086904	0.68276691	0.86812434
Supt5	14221.5148	-0.0648713	0.2050219	-0.3164117	0.75169001	0.90161989
Rnf181	14843.7156	-0.0648826	0.20187504	-0.3213999	0.74790738	0.90055809
Bhlhe40	2884.71234	-0.0649024	0.37736743	-0.1719874	0.86344744	0.94702747
RbmX	1221.5727	-0.0649294	0.20353935	-0.3190019	0.74972508	0.90092221
Hist2h4	1.83641905	-0.0649391	0.30900355	-0.2101564	0.83354561	NA
Csf3r	272.322906	-0.0649607	0.42430822	-0.1530979	0.87832108	0.95329223
Kcnj1	1.75861688	-0.065084	0.32461001	-0.2004992	0.84109021	NA
Stx12	5889.52163	-0.0650945	0.18283312	-0.3560324	0.72181632	0.88699847
Mamdc2	10.4025808	-0.0651846	0.40046215	-0.1627734	0.87069686	0.95025664
Zswim4	1563.07343	-0.0652134	0.24633595	-0.2647337	0.79121462	0.91829081
1810037I17R	5204.45196	-0.0652493	0.20847745	-0.31298	0.75429588	0.90191816
Srsf9	5664.69253	-0.0653197	0.14633868	-0.44636	0.65533722	0.85234189
Hspa4	68544.8122	-0.0653482	0.16872618	-0.3873032	0.69853173	0.87701346
Xpnpep3	1215.62793	-0.0653629	0.26724686	-0.2445786	0.80678272	0.92559319
Tbl2	4318.59638	-0.0653719	0.16828948	-0.3884494	0.6976835	0.87645821
Gm10406	31.4109011	-0.0654085	0.38325869	-0.1706641	0.86448792	0.94733646
Bnip3l	6042.69609	-0.0654524	0.15823608	-0.4136379	0.67913932	0.86604267
Mettl20	312.722667	-0.065483	0.29063569	-0.2253096	0.8217384	0.93076517
Timm17b	2243.8457	-0.0654976	0.23249711	-0.2817135	0.77816318	0.91216552
Dph2	1190.47035	-0.0654995	0.20176501	-0.3246328	0.74545902	0.89871411
Omt2b	2.99325915	-0.0655168	0.30004882	-0.2183538	0.82715343	NA
Ap1b1	4871.72157	-0.0655519	0.26473202	-0.247616	0.80443155	0.92394305
2810013P06F	585.351285	-0.065558	0.20286743	-0.3231568	0.74657649	0.89958244
Taf15	9712.68159	-0.0655756	0.15793105	-0.4152167	0.67798328	0.86555439
1110012L19F	1315.30792	-0.0656129	0.197789	-0.3317317	0.74009183	0.89544909
Vps28	3231.5233	-0.065618	0.23175967	-0.2831296	0.7770775	0.91147475
5730403I07R	7.87933044	-0.0656464	0.41706878	-0.1573994	0.87493012	0.95244465
Ctdp1	3297.95564	-0.0656522	0.21105279	-0.3110698	0.75574754	0.90203956
Rpia	916.739565	-0.0657532	0.19432335	-0.33837	0.73508439	0.89329078
Hsd17b13	1.19782122	-0.0657824	0.18361189	-0.3582689	0.72014205	NA
Snhg8	1974.38102	-0.0658557	0.21838054	-0.3015637	0.76298465	0.90522666
Nkain3	2.49880594	-0.0658717	0.3495261	-0.18846	0.85051608	NA
Tas1r3	2.64436073	-0.0658865	0.28701019	-0.2295617	0.81843237	NA

Crhr1	1.12810801	-0.0660415	0.27003212	-0.2445692	0.80679	NA
Swap70	5038.67089	-0.066055	0.16968445	-0.3892815	0.69706794	0.87645821
Ndufa10	7743.67622	-0.0661471	0.17951762	-0.3684712	0.71252193	0.88374769
Dnajc16	1349.47007	-0.0661913	0.21075874	-0.3140621	0.75347389	0.90191816
Cnot6	6704.04872	-0.0662109	0.24401056	-0.2713446	0.78612601	0.9157961
Efcab2	196.470564	-0.066258	0.29044228	-0.2281279	0.8195468	0.93046822
Gtf2e2	9700.96731	-0.0662973	0.19332869	-0.3429254	0.73165457	0.89154993
Smek1	11667.9309	-0.0665323	0.22811207	-0.2916648	0.77054292	0.90826951
Tug1	9312.68634	-0.0665336	0.22380494	-0.2972839	0.7662498	0.90621355
Rpf2	5864.41799	-0.0666877	0.18510437	-0.360271	0.71864447	0.88550762
Slmo2	6174.88242	-0.0666904	0.15234135	-0.4377693	0.66155352	0.85567819
Klf5	7319.28122	-0.0667114	0.19543719	-0.3413444	0.7328443	0.89216077
Epg5	1523.35723	-0.0668409	0.25067455	-0.2666442	0.78974312	0.91796579
Impa1	8124.96781	-0.0668839	0.1778104	-0.3761527	0.70680338	0.88068873
Cops7a	9271.67477	-0.0668978	0.14386476	-0.465005	0.6419279	0.84385084
Shc1	7029.88903	-0.0669203	0.22649222	-0.2954639	0.76763951	0.90649963
Mir8110	1.58670207	-0.0669933	0.26147861	-0.2562093	0.79778919	NA
Gin1	673.295472	-0.0671917	0.28767873	-0.2335651	0.81532262	0.92939072
1700017J07R	11.3518322	-0.0672274	0.43109102	-0.155947	0.87607477	0.95264675
Stac	0.65028811	-0.0672314	0.18071368	-0.3720329	0.70986837	NA
Itgb6	0.65028811	-0.0672314	0.18071368	-0.3720329	0.70986837	NA
Gm14446	0.65028811	-0.0672314	0.18071368	-0.3720329	0.70986837	NA
Nat2	348.721097	-0.0673162	0.29389578	-0.229048	0.81883159	0.93036217
Actc1	1.01554655	-0.0674062	0.20627543	-0.3267775	0.74383621	NA
Phykpl	265.527134	-0.0674775	0.27719272	-0.2434316	0.8076711	0.92614835
Cept1	3472.11959	-0.0674803	0.201752	-0.3344715	0.73802378	0.89447493
Itpr2	112.847151	-0.0675009	0.35005591	-0.1928289	0.847093	0.94147896
Trim24	13353.4012	-0.0675247	0.17731642	-0.3808148	0.70334068	0.87928906
Rabgta	3442.48585	-0.0676986	0.21335675	-0.3173025	0.75101407	0.9010894
Gmfb	8527.30933	-0.0678546	0.17669716	-0.3840165	0.70096625	0.87785127
Zbtb32	1133.8259	-0.0679067	0.24579329	-0.2762755	0.78233644	0.91381112
Ddx41	5333.24187	-0.0679708	0.18061507	-0.3763299	0.70667168	0.88063557
Zfp148	5900.7955	-0.0680051	0.19472909	-0.3492295	0.726917	0.88950684
Pla2g4e	1158.4755	-0.0680902	0.36886734	-0.1845925	0.85354865	0.94431772
Xlr3b	435.952915	-0.0680947	0.30544882	-0.2229334	0.82358736	0.93107393
Ring1	603.663887	-0.0681406	0.2048399	-0.3326531	0.73939616	0.89515154
2310040G24I	129.965319	-0.0681607	0.31031227	-0.219652	0.82614222	0.9316416
Parn	4765.91802	-0.0681805	0.15819522	-0.4309895	0.66647598	0.85861718
Mrpl3	3803.70514	-0.0682223	0.18988668	-0.3592792	0.7193862	0.88592422
Rabgap1	6671.09757	-0.0682251	0.1826145	-0.3736017	0.70870063	0.88125982
Bloc1s1	2058.46923	-0.068235	0.20851803	-0.3272377	0.74348809	0.89753014

Cluh	9016.90594	-0.0682404	0.2472903	-0.2759524	0.78258463	0.91393614
Focad	3168.54379	-0.0682612	0.22026384	-0.3099067	0.75663187	0.9027453
Rfk	3526.15395	-0.0683282	0.1684805	-0.4055556	0.68506913	0.86960331
Onecut3	13.5876014	-0.0683376	0.41595324	-0.1642915	0.86950167	0.94948532
Sumo2	51.4476605	-0.0683911	0.35851154	-0.1907639	0.84871056	0.94216329
Slc22a6	0.60850128	-0.068467	0.17783887	-0.3849944	0.70024155	NA
Olf772	0.60850128	-0.068467	0.17783887	-0.3849944	0.70024155	NA
1700001C02F	0.60850128	-0.068467	0.17783887	-0.3849944	0.70024155	NA
Ctsb	16080.2698	-0.068585	0.21662077	-0.3166135	0.75153693	0.90157762
Crebbp	1944.00761	-0.0685879	0.33003063	-0.2078228	0.83536735	0.9365437
Cox6b1	16830.4781	-0.0686597	0.23916126	-0.2870855	0.77404685	0.90992938
Timp4	1.07126747	-0.0686984	0.20687464	-0.3320774	0.7398308	NA
Khdrbs2	1.07126747	-0.0686984	0.20687464	-0.3320774	0.7398308	NA
4931414P19F	537.260025	-0.0687023	0.18776545	-0.3658944	0.71444387	0.88425449
Vsnl1	0.97387178	-0.0687702	0.20254045	-0.339538	0.73420446	NA
4930429F24F	0.64313237	-0.0688138	0.18024153	-0.3817865	0.70261971	NA
Prm1	0.64313237	-0.0688138	0.18024153	-0.3817865	0.70261971	NA
Slc10a5	15.4405403	-0.0688463	0.43204828	-0.1593485	0.87339428	0.95171748
BC004004	2359.14169	-0.0688595	0.23322055	-0.2952548	0.76779926	0.90649963
Nme6	1645.04592	-0.0688631	0.20487065	-0.3361298	0.73677296	0.89391803
Luc7l	11096.1297	-0.0689081	0.18532313	-0.371827	0.71002165	0.88195802
Pisd	4965.00656	-0.0689699	0.16206699	-0.425564	0.6704256	0.86110051
Clec4f	3.42905558	-0.0690081	0.37710085	-0.1829963	0.85480089	NA
Enthd2	1396.82747	-0.0690301	0.21137481	-0.3265769	0.74398793	0.89792443
Dbn1d2	129.944498	-0.0690696	0.3365447	-0.2052316	0.8373912	0.93739351
Lsr	1158.9006	-0.0691573	0.3103346	-0.2228474	0.82365425	0.93107393
Cinp	3451.33168	-0.0691808	0.17622543	-0.3925699	0.69463715	0.87496374
Tpte	6.30086141	-0.0692244	0.3400475	-0.2035727	0.83868741	0.93823667
Shkbp1	2600.45247	-0.0693107	0.19112066	-0.3626542	0.7168632	0.88475711
Gnrh1	9.45373363	-0.069358	0.43065517	-0.1610523	0.87205221	0.95106837
Rab3gap2	3091.06284	-0.0693709	0.20787506	-0.3337146	0.73859495	0.89470602
Kif3b	2523.62049	-0.0693737	0.17460368	-0.3973209	0.69113082	0.87369566
Vps37d	177.295905	-0.0694241	0.32301815	-0.2149233	0.82982714	0.93342798
Cyb561a3	984.673908	-0.0694745	0.18974587	-0.3661449	0.71425695	0.88425449
B3gnt9	94.2800766	-0.0694783	0.29549693	-0.2351235	0.81411286	0.92878688
Tut1	3063.36225	-0.069513	0.2254901	-0.3082752	0.75787294	0.90307174
BC027231	3296.45333	-0.0696254	0.24048708	-0.2895184	0.77218471	0.90946064
Serp1nb6e	0.69445062	-0.0696481	0.1790771	-0.3889281	0.69732935	NA
Btf3l4	1553.69339	-0.0696565	0.18633678	-0.3738206	0.70853777	0.88125982
4933439C10F	123.298123	-0.069658	0.33513082	-0.2078533	0.83534354	0.9365437
Med15	3345.64041	-0.0696983	0.19108632	-0.3647478	0.71529968	0.88470138

Map2k1	10442.827	-0.06972	0.16267214	-0.4285921	0.6682201	0.85977126
Cadm4	2794.9834	-0.0697352	0.24759809	-0.2816469	0.77821426	0.91216552
Mfap3	2984.56817	-0.0698433	0.23563399	-0.2964057	0.76692025	0.90649963
Astn2	2.56690116	-0.0698494	0.2933076	-0.2381437	0.81176961	NA
Tprgl	3961.80401	-0.0698694	0.18492307	-0.3778298	0.70555707	0.87995172
Naa38	2986.59474	-0.0699757	0.2335958	-0.2995588	0.7645137	0.90596301
Rabepk	2099.8237	-0.070063	0.2272958	-0.308246	0.75789518	0.90307174
Lhx3	6.29556389	-0.0701261	0.3565195	-0.1966963	0.84406523	0.94103803
Psm10	1718.20263	-0.0701772	0.18729438	-0.3746892	0.70789164	0.88112271
Pcdhb19	0.66961629	-0.0702154	0.18233636	-0.3850872	0.70017283	NA
Acss3	0.66961629	-0.0702154	0.18233636	-0.3850872	0.70017283	NA
Abcc9	0.66961629	-0.0702154	0.18233636	-0.3850872	0.70017283	NA
Mir5136	0.66961629	-0.0702154	0.18233636	-0.3850872	0.70017283	NA
Paxbp1	6183.66988	-0.0702209	0.17929249	-0.3916553	0.69531289	0.87541586
Dnm3	1.44694031	-0.0703268	0.31034373	-0.2266093	0.82072755	NA
1300002E11F	761.32632	-0.0703912	0.20001956	-0.3519216	0.7248971	0.88888368
Cage1	14.7742118	-0.0704079	0.43098837	-0.1633637	0.87023208	0.94998715
Fam76a	3192.30319	-0.0704171	0.14767098	-0.4768511	0.63346817	0.83888815
Zfp518b	6597.29039	-0.0704439	0.24020875	-0.2932613	0.7693224	0.90764437
Gm10785	2.11170288	-0.0704449	0.34035784	-0.206973	0.83603095	NA
4930546K05F	1.72981479	-0.0705575	0.19876913	-0.3549724	0.7226103	NA
Gm19434	0.67236936	-0.0707011	0.18256536	-0.3872644	0.69856047	NA
Dhcr24	9702.41845	-0.0708152	0.22875372	-0.3095694	0.75688841	0.90291283
Sypl	4297.25585	-0.0709008	0.17626945	-0.4022298	0.68751489	0.87088718
Mageb16-ps1	1.67540448	-0.0709325	0.26038997	-0.2724087	0.78530778	NA
AI506816	128.060291	-0.0709572	0.35009754	-0.2026784	0.8393864	0.93861349
Setdb2	1435.4044	-0.0711404	0.19410275	-0.3665092	0.71398516	0.88425449
Hspb8	7825.84473	-0.0711656	0.20881922	-0.3408	0.73325417	0.892514
Pkd1l2	309.948863	-0.0712416	0.40218182	-0.1771379	0.85940008	0.9455234
Msx1	44.1578228	-0.071255	0.38635737	-0.1844276	0.85367803	0.94431772
Med20	2627.3509	-0.0712875	0.18556316	-0.3841682	0.70085375	0.87785127
Got1	13576.8137	-0.0712915	0.19533013	-0.3649797	0.71512654	0.88470138
Nfam1	211.815006	-0.0713516	0.40169018	-0.1776285	0.85901471	0.9455234
Snord67	1.05695599	-0.0713654	0.20640078	-0.3457613	0.72952213	NA
Gjc3	1.05695599	-0.0713654	0.20640078	-0.3457613	0.72952213	NA
Psm1	17965.9398	-0.0714252	0.17966085	-0.3975557	0.6909577	0.87365931
Mir421	0.68729487	-0.0714375	0.17897629	-0.399145	0.68978634	NA
Gm3264	0.68729487	-0.0714375	0.17897629	-0.399145	0.68978634	NA
Jmjd7-pla2g4	2.42273673	-0.071477	0.32793254	-0.2179625	0.8274583	NA
Nif3l1	3781.91695	-0.0714902	0.18402974	-0.3884711	0.69766745	0.87645821
Amz2	2315.2454	-0.0715035	0.1987541	-0.3597584	0.7190278	0.88576059

Lsm1	2520.82597	-0.0715041	0.22608626	-0.3162693	0.75179813	0.90161989
Slc12a6	4939.02913	-0.0715333	0.23922194	-0.2990247	0.76492123	0.90610594
Slc35f1	21.5973464	-0.0716151	0.42891428	-0.1669683	0.86739497	0.94885053
Gstm4	746.397795	-0.071764	0.2242189	-0.3200623	0.74892111	0.90080224
Hist4h4	3.42916764	-0.0717797	0.37796684	-0.1899101	0.84937957	NA
Mir210	0.66246055	-0.0718055	0.18188563	-0.3947837	0.69300255	NA
Slc34a3	108.325031	-0.0718259	0.31059087	-0.2312557	0.81711616	0.93016422
Gpr108	1464.33017	-0.0718933	0.21899798	-0.3282828	0.74269784	0.89701854
Rfpl3s	2.87481777	-0.0719781	0.33165771	-0.2170253	0.82818863	NA
D430036J16F	2.24644794	-0.0719786	0.30954396	-0.2325311	0.8161255	NA
Msx3	16.1693684	-0.0719958	0.42150979	-0.1708045	0.86437747	0.94728217
Zfp456	389.89647	-0.072084	0.2519493	-0.2861053	0.77479746	0.91029675
Speer9-ps1	0.66521362	-0.0722921	0.18211781	-0.3969525	0.69140252	NA
2210018M11	3361.01726	-0.0723192	0.17220869	-0.4199509	0.67452135	0.86375836
Sdc2	2474.87667	-0.072357	0.38491386	-0.1879823	0.85089055	0.94333777
Mageb16	514.310031	-0.0724076	0.31121977	-0.2326575	0.81602733	0.92967334
Tmem186	1903.38993	-0.0724589	0.17985469	-0.4028747	0.68704039	0.87068415
Maz	11925.3942	-0.072505	0.17917091	-0.4046695	0.68572047	0.87013519
Fbxl21	52.85464	-0.0725079	0.36276777	-0.1998743	0.8415789	0.93957883
Catsper3	6.00892235	-0.0725252	0.41749353	-0.1737157	0.86208887	0.9462518
St6galnac4	655.974411	-0.0725638	0.20719261	-0.3502239	0.72617071	0.8894676
Rbm12	5663.11411	-0.0726128	0.18608639	-0.3902099	0.69638131	0.87602538
Tmem184a	83.7425766	-0.0726178	0.35223561	-0.2061626	0.83666389	0.93698697
Tial1	6262.18246	-0.0726595	0.1543628	-0.4707058	0.63785085	0.84137221
4930519F09F	2.17997363	-0.0726783	0.34237649	-0.2122758	0.83189184	NA
Chst3	940.291704	-0.0727824	0.30991974	-0.2348427	0.81433079	0.92878688
Mapkap1	2683.86741	-0.0728271	0.15320144	-0.475368	0.63452473	0.83934241
Vmn2r1	10.6356518	-0.072856	0.43048684	-0.1692408	0.8656072	0.94808387
Mfsd5	2253.24115	-0.0728823	0.17841488	-0.4084989	0.68290744	0.86820582
1810010D01I	4.07625162	-0.0729132	0.39669547	-0.1838013	0.8541693	NA
Pih1d1	2472.61245	-0.0729683	0.20336411	-0.3588064	0.71973994	0.88592422
Rpn1	19326.3796	-0.0730229	0.15883554	-0.459739	0.64570358	0.84644157
Bod1	3561.54622	-0.0730243	0.21180425	-0.3447728	0.73026516	0.89069439
Fbxo8	1700.05461	-0.0730423	0.19977681	-0.3656194	0.7146491	0.88441096
Abi2	3202.67087	-0.0731763	0.21663771	-0.3377821	0.73552739	0.89343006
Gm2109	1.7990931	-0.0732696	0.23822287	-0.3075673	0.7584116	NA
Ackr4	40.1758193	-0.0732818	0.4018113	-0.1823787	0.85528551	0.94458789
Nos1ap	28.8391067	-0.073286	0.42964038	-0.1705751	0.86455786	0.94734635
Abcd3	4882.40448	-0.073299	0.17917094	-0.4091007	0.68246575	0.86792811
Clec16a	1115.67001	-0.0734476	0.23751433	-0.3092346	0.75714308	0.90301693
Ccdc138	958.445788	-0.0734483	0.18560757	-0.3957183	0.69231288	0.87437323

Siva1	3959.70723	-0.0735265	0.20536111	-0.358035	0.7203171	0.88634683
Plekhg3	3867.02565	-0.0735381	0.19781514	-0.3717516	0.71007781	0.88195802
Sdf2	1757.43508	-0.0735591	0.23596762	-0.3117341	0.75524264	0.90191816
Tnxb	2.49938518	-0.073696	0.32056016	-0.2298976	0.81817135	NA
Tmem167b	2471.03547	-0.0736984	0.16745012	-0.4401217	0.65984899	0.85468197
Tmcc2	631.77784	-0.0737924	0.31261411	-0.2360496	0.81339417	0.92878688
Car14	10.2815396	-0.0738766	0.42712962	-0.1729607	0.86268236	0.94669207
Kdelr2	6022.66985	-0.074034	0.14295699	-0.5178764	0.60454452	0.8233008
Pou3f4	1.87425426	-0.0740427	0.23348428	-0.3171205	0.75115214	NA
Mir7081	1.27326385	-0.0741528	0.24737323	-0.2997609	0.76435954	NA
Cfp	783.513258	-0.0742191	0.28022361	-0.2648568	0.79111979	0.91829081
Snhg3	3239.95444	-0.0742637	0.19388728	-0.3830252	0.70170104	0.87845379
Mitd1	1885.77143	-0.0742659	0.16431659	-0.4519686	0.65129162	0.84947044
Clip4	1151.66915	-0.0743005	0.17738039	-0.4188767	0.67530624	0.86422417
Herc4	12480.9713	-0.0744176	0.17083733	-0.4356049	0.66312342	0.85645621
Arhgap35	7150.68149	-0.0744304	0.2480504	-0.3000617	0.76413012	0.90571551
Atp6v0c	0.75243517	-0.0745141	0.1797638	-0.4145113	0.67849972	NA
Hspa14	11040.5873	-0.0745376	0.1428057	-0.5219511	0.60170441	0.82168861
Chst11	493.288651	-0.0745459	0.42297826	-0.1762405	0.86010498	0.9455234
Gm14164	35.7588143	-0.0745642	0.4253049	-0.1753193	0.86082873	0.94567701
Dusp16	3288.34826	-0.074591	0.20931223	-0.3563625	0.72156911	0.88692345
Lrrc10	3.96460725	-0.0746023	0.37150132	-0.2008131	0.84084474	NA
Kif1c	3018.91369	-0.0746226	0.19967708	-0.3737163	0.70861538	0.88125982
Sub1	20548.0057	-0.0746255	0.18919481	-0.3944374	0.69325815	0.87464364
Nkx2-2os	0.64991072	-0.0746892	0.18108566	-0.4124521	0.68000805	NA
Slc8a3	19.6405695	-0.0747395	0.41889267	-0.1784217	0.85839184	0.9455234
Dnaja3	6416.8613	-0.0748189	0.16048624	-0.4662012	0.64107148	0.84343093
Zfr2	36.3177974	-0.0748452	0.42771293	-0.1749894	0.86108797	0.94574328
Zfp251	921.985748	-0.074862	0.19492927	-0.3840472	0.70094346	0.87785127
Rnasel	19.5336169	-0.0748655	0.43222287	-0.1732105	0.862486	0.94654339
Ncbp1	11440.6623	-0.0748922	0.14202323	-0.5273237	0.59796882	0.81984777
Wibg	4197.57448	-0.0749655	0.19947421	-0.3758153	0.7070542	0.88082991
Pqbp1	2704.15832	-0.0750015	0.2154839	-0.3480609	0.72779448	0.88986097
BC052688	1630.29221	-0.075022	0.40170312	-0.1867598	0.85184899	0.94377272
Pdgfd	2.12171405	-0.0750499	0.27160314	-0.2763218	0.78230094	NA
G6bos	0.65266379	-0.0751776	0.18132363	-0.4146046	0.6784314	NA
Fut2	267.090098	-0.0751931	0.39260364	-0.1915243	NA	NA
Tmem100	2.29285794	-0.0752051	0.24865511	-0.3024473	0.76231114	NA
Best2	16.8936606	-0.0752137	0.42262722	-0.177967	0.85874888	0.9455234
Adap2	506.637917	-0.0752282	0.24889502	-0.3022487	0.76246249	0.90498047
Sox10	4.30509608	-0.0752818	0.37634437	-0.2000342	0.84145382	NA

Usp6nl	1979.69303	-0.0753197	0.2311267	-0.3258807	0.7445146	0.89814184
4930425O10l	1.26786976	-0.0753445	0.24724389	-0.3047374	0.76056614	NA
Pdzk1ip1	33.1066701	-0.0753494	0.4315358	-0.1746075	0.86138802	0.94590329
Wtap	11395.6667	-0.0753735	0.15524034	-0.4855277	0.62730207	0.83506031
Plscr3	834.493414	-0.0754065	0.21072499	-0.3578433	0.72046057	0.88638309
Slc25a32	1422.55279	-0.0754631	0.1755183	-0.4299442	0.66723622	0.85915695
Cep63	1731.45778	-0.0754855	0.17485107	-0.4317129	0.66595011	0.85847983
Gm8709	4.40534144	-0.0755234	0.3883404	-0.1944774	0.84580211	NA
Erich4	1.34704074	-0.0755795	0.249567	-0.3028426	0.76200979	NA
Clec4a1	160.745012	-0.0755991	0.38785774	-0.1949144	0.84545994	0.94147896
Klhl8	2086.08235	-0.0756863	0.17613058	-0.4297172	0.6674014	0.85916281
Tmf1	3226.51967	-0.075691	0.20259231	-0.3736124	0.70869272	0.88125982
Denr	8185.4004	-0.0757058	0.18347349	-0.4126253	0.67988115	0.86642486
Smad5	2535.14251	-0.0757119	0.1925305	-0.3932461	0.69413773	0.87496374
Rnf43	42.0736744	-0.0757235	0.43126148	-0.175586	0.86061917	0.94567701
Mir1894	7.88829809	-0.0757774	0.42973822	-0.1763339	0.86003161	0.9455234
Med25	3976.7752	-0.0758395	0.21213586	-0.3575045	0.72071415	0.8865548
Coro1b	8437.77253	-0.0759134	0.22793817	-0.3330437	0.73910128	0.89494387
Haus6	5186.73435	-0.0759416	0.2164794	-0.3508027	0.72573634	0.88928462
Sav1	2198.11331	-0.0759456	0.20352876	-0.3731441	0.70904121	0.88153317
Rbm48	1696.30598	-0.0760202	0.17534064	-0.4335574	0.66460986	0.85727836
Mmadhc	3606.50904	-0.0760371	0.15628872	-0.4865168	0.62660077	0.83469537
BC065397	388.80579	-0.0760957	0.23892761	-0.3184886	0.75011435	0.90092664
Bloc1s5	685.657216	-0.0761148	0.19257005	-0.3952577	0.6926527	0.8746012
4930417O13l	1.50365265	-0.0761564	0.31133562	-0.244612	0.80675685	NA
Usp54	2771.48398	-0.0761888	0.23164624	-0.3289016	0.74223005	0.8968469
Abcd4	2488.53638	-0.0763973	0.20138143	-0.3793659	0.70441616	0.87942876
Pom121	4202.79279	-0.0764133	0.24981882	-0.305875	0.75969979	0.9039387
Mogs	3643.22722	-0.0764462	0.22012127	-0.3472913	0.72837249	0.8900505
Prss34	0.71102573	-0.0765129	0.18563076	-0.4121778	0.68020909	NA
Ptrhd1	717.962718	-0.0765386	0.20424245	-0.3747437	0.70785111	0.88112271
Myo10	22317.1097	-0.0765441	0.19817618	-0.3862424	0.69931712	0.87735184
Coq9	2792.36256	-0.0765521	0.15669783	-0.4885331	0.62517228	0.8338669
Ola1	11194.1265	-0.0767304	0.16122341	-0.4759258	0.63412724	0.83926065
Dnajc17	813.87535	-0.0767412	0.19635538	-0.3908282	0.69592422	0.87573374
Nop14	9159.16971	-0.0767634	0.16119689	-0.4762092	0.63392532	0.83920768
Edn3	1.08202086	-0.0767822	0.20596969	-0.372784	0.70930918	NA
Tbca	4470.93846	-0.076823	0.20188687	-0.3805251	0.70355564	0.87928906
Gm15408	8.25936756	-0.0768958	0.41185108	-0.1867078	0.85188976	0.94377272
Mcm3ap	16900.3798	-0.0769473	0.23031876	-0.3340905	0.73831124	0.8945646
Ces1b	0.7137788	-0.0769808	0.18584311	-0.4142247	0.67870953	NA

Bud13	1795.96874	-0.0770134	0.20992876	-0.366855	0.71372717	0.88418475
Esp8	2.24749688	-0.0771094	0.21065511	-0.3660459	0.71433085	NA
Idi2	1.85278703	-0.0771286	0.23322783	-0.3307008	0.74087048	NA
Tbk1	3185.53356	-0.0771466	0.19458513	-0.3964669	0.6917606	0.87409602
Utp20	14625.2503	-0.0775375	0.26871888	-0.2885451	0.7729295	0.90962818
Tti1	4190.97044	-0.0776332	0.1724299	-0.4502308	0.65254405	0.85045295
Tardbp	40735.0728	-0.077693	0.18404589	-0.4221391	0.67292346	0.86279388
Dcaf4	4806.00027	-0.0777516	0.23849167	-0.3260137	0.74441395	0.8980901
Slc22a16	4.11942271	-0.077789	0.39488682	-0.1969907	0.84383478	NA
Tshz3	167.735706	-0.0778339	0.3371849	-0.2308346	0.81744329	0.93024054
Grin2a	3.71299147	-0.0778965	0.39059502	-0.1994302	0.84192621	NA
Klhl29	48.2100337	-0.0779822	0.42810823	-0.1821554	0.85546076	0.94458789
R3hcc1	1873.44036	-0.078191	0.1997601	-0.3914245	0.69548351	0.87541586
Pgls	2888.01233	-0.0781952	0.25205831	-0.3102268	0.7563885	0.90259343
Prdm16	759.288301	-0.0781982	0.26234199	-0.2980774	0.76564408	0.90618168
Ftsj1	2075.02909	-0.0783092	0.17875411	-0.4380834	0.6613258	0.85550654
Rps9	61114.3519	-0.0786013	0.18284409	-0.4298817	0.66728169	0.85915695
Hmgxb3	3393.1775	-0.0787146	0.18967643	-0.4149941	0.67814623	0.86569135
Gga1	3129.60128	-0.0787914	0.18136653	-0.4344318	0.66397493	0.85695694
Gpkow	2013.74179	-0.0788086	0.17032489	-0.4626958	0.64358241	0.84499536
Adnp2	4643.83659	-0.0788088	0.21146331	-0.3726833	0.70938418	0.8816794
Creb3l4	163.221734	-0.0788713	0.38124742	-0.2068769	0.83610603	0.93697364
Atp2a3	1964.71802	-0.0789503	0.32794109	-0.2407455	0.80975238	0.92748171
Rplp2	51057.2568	-0.0789784	0.18671943	-0.4229793	0.67231038	0.86227619
Chst8	176.582021	-0.07899	0.31379976	-0.2517209	0.80125682	0.92325551
5830417110R	2022.88103	-0.0789915	0.17103673	-0.4618392	0.64419661	0.84545047
Serpine1	866.311356	-0.0789965	0.36899001	-0.2140884	0.83047816	0.9337556
Cherp	9672.36739	-0.0790477	0.27635228	-0.2860397	0.77484772	0.91029675
Ccdc176	69.9631165	-0.0790555	0.34228891	-0.2309615	0.81734473	0.93024054
Fscn1	16332.9422	-0.079134	0.30273985	-0.2613928	0.79378963	0.91974128
Dgcr14	1571.10764	-0.079168	0.1879759	-0.4211605	0.67363788	0.86321737
Rheb	6339.64751	-0.0792618	0.17420742	-0.4549854	0.64911975	0.84869184
Fam72a	633.372021	-0.079262	0.18507186	-0.4282768	0.66844964	0.85987761
Gabpa	16287.3638	-0.0792653	0.18376301	-0.4313452	0.66621741	0.8585804
Adipor1	7664.12107	-0.0792726	0.15769249	-0.5027039	0.6151725	0.82953469
Msgn1	3.87472243	-0.0792986	0.35690074	-0.2221866	0.8241686	NA
Gls	6852.64214	-0.0793902	0.25718318	-0.3086913	0.75755636	0.90301693
Mnx1	66.7436224	-0.0794866	0.41059053	-0.1935909	0.8464962	0.94147896
Smchd1	7120.95588	-0.0795223	0.23146508	-0.3435605	0.73117686	0.89152668
Gpr55	2.08268029	-0.0795569	0.27619144	-0.2880497	0.77330869	NA
Dip2b	2040.51149	-0.0795887	0.26749093	-0.2975379	0.76605585	0.90618168

Stk16	1922.89098	-0.079609	0.21301108	-0.3737316	0.70860401	0.88125982
Slc45a3	549.309849	-0.0796552	0.2441056	-0.3263145	0.74418644	0.89795494
Mirlet7e	0.94941484	-0.0796979	0.23013336	-0.3463117	0.72910848	NA
Mrrf	1287.85168	-0.0797252	0.19429671	-0.4103269	0.68156617	0.86734737
lbtck	7353.18345	-0.0797328	0.19741727	-0.4038794	0.6863014	0.87052798
Chchd10	14733.1247	-0.0797504	0.22030426	-0.3620011	0.71735121	0.88502651
Rpl36al	5276.01537	-0.0797707	0.19093445	-0.4177911	0.67609984	0.864488
C8g	161.752491	-0.0798321	0.3852091	-0.2072435	0.83581973	0.93687039
Sema3c	52.7131585	-0.079847	0.41595314	-0.1919614	0.84777243	0.94155899
Dhrs7b	2238.91479	-0.0798586	0.2430263	-0.3286005	0.74245764	0.8969825
A830080D01	6674.94291	-0.079867	0.15776057	-0.5062543	0.61267811	0.82786256
Srsf4	5192.30625	-0.0799081	0.180946	-0.441613	0.65876926	0.85401151
Zp3	757.181809	-0.0799278	0.23634132	-0.3381878	0.73522165	0.89330666
B230216N24	1.60675634	-0.0800117	0.26400365	-0.3030704	0.76183619	NA
9530077C05F	406.218475	-0.0800502	0.40796686	-0.1962174	0.84443999	0.94115145
Asxl2	6103.62184	-0.0800997	0.2202035	-0.363753	0.71604248	0.88472721
Zbtb46	289.064508	-0.0801454	0.35669541	-0.2246887	0.82222143	0.93093305
Ncoa4	2858.68032	-0.080222	0.22090745	-0.3631474	0.71649479	0.88475417
Map2k4	4915.16818	-0.0802358	0.18961013	-0.423162	0.67217705	0.86225846
1810043G02I	375.791592	-0.080354	0.25924953	-0.3099483	0.75660027	0.9027453
Dscc1	1156.96681	-0.080376	0.18138749	-0.4431179	0.65768049	0.85322343
Snora30	5.94769461	-0.0803941	0.37721267	-0.2131266	0.83122821	0.93392312
Smad4	4900.89451	-0.0804977	0.18431328	-0.436744	0.66229705	0.85619416
Vmn2r3	4.00817914	-0.0805227	0.30309817	-0.2656654	0.79049694	NA
Atg7	1062.43571	-0.0805517	0.19007318	-0.4237929	0.67171683	0.86187033
Emc4	1868.04399	-0.0805651	0.20327038	-0.3963443	0.69185104	0.87409602
Usp9x	24674.009	-0.080584	0.25695599	-0.3136103	0.75381703	0.90191816
Atraid	1718.62878	-0.0805891	0.24175982	-0.3333438	0.7388748	0.8948635
Hnrnpab	51454.5758	-0.0807457	0.16050759	-0.5030647	0.61491882	0.82951097
Fbxw8	4395.47455	-0.0807536	0.18383082	-0.4392823	0.66045696	0.85511333
Srrt	13777.6453	-0.0807965	0.19654622	-0.4110813	0.68101294	0.86700223
Stx6	1380.74315	-0.0808341	0.18325759	-0.4410953	0.65914402	0.85421847
Cdkn2c	155.424395	-0.0808672	0.33367229	-0.242355	0.80850508	0.92680691
Pink1	1063.24256	-0.0808787	0.22793838	-0.3548271	0.72271914	0.88757986
Ssr3	24011.6813	-0.0810595	0.15882571	-0.5103678	0.60979378	0.82596491
B4galnt3	2600.3919	-0.0810605	0.27009019	-0.3001239	0.76408263	0.90571551
Megf10	0.69132016	-0.0810652	0.18450972	-0.4393545	0.66040471	NA
Pja2	3290.04343	-0.0814114	0.21484889	-0.3789241	0.70474424	0.87942876
Bcas1os2	0.72595124	-0.0814465	0.18691284	-0.4357461	0.66302095	NA
Srsf3	25793.5796	-0.0815107	0.17166857	-0.4748144	0.63491929	0.83934241
Hist1h3d	2.64809912	-0.0815161	0.32525287	-0.2506238	0.80210498	NA

Mir6922	0.69407323	-0.0815358	0.18473039	-0.4413773	0.65893987	NA
Zfand2b	754.39318	-0.0816333	0.21388285	-0.3816731	0.70270389	0.87893093
Gart	26729.8593	-0.0817295	0.20054043	-0.4075465	0.68360667	0.86866869
Ubl3	3197.86021	-0.0817784	0.23041953	-0.3549107	0.72265647	0.88757986
Wdr46	3762.17472	-0.0818529	0.23358874	-0.3504146	0.72602759	0.88936235
Sart3	7218.64548	-0.0819969	0.20308564	-0.4037552	0.68639276	0.87054555
Pasma5	7233.11975	-0.0820029	0.1620945	-0.5058959	0.61292976	0.82804888
Oxr1	6120.74242	-0.0820178	0.20510332	-0.3998852	0.68924111	0.87233568
Dnajc14	3761.8976	-0.082152	0.15541322	-0.5286037	0.59708042	0.81955501
Ak3	834.939309	-0.082242	0.2533903	-0.3245666	0.7455091	0.89871411
Odf4	0.98404593	-0.0822629	0.23419083	-0.3512642	0.72539014	NA
Zfp931	228.683418	-0.0823594	0.28451324	-0.2894747	0.7722181	0.90946064
Chmp6	2152.15457	-0.0823757	0.22712111	-0.3626952	0.71683259	0.88475711
Ccdc154	6.47181313	-0.0824673	0.40876383	-0.201748	0.84011376	0.93906114
1700069L16F	2.35318407	-0.0824838	0.28715068	-0.2872492	0.77392149	NA
Gosr2	4237.64364	-0.0824985	0.21014783	-0.3925736	0.69463442	0.87496374
Galm	1299.78017	-0.0825183	0.23770476	-0.3471463	0.72848142	0.8900505
Cldn2	1.59209616	-0.0825251	0.28754055	-0.2870035	0.77410965	NA
4833439L19F	6049.48367	-0.0825458	0.16821189	-0.4907248	0.62362108	0.83265488
Rlbp1	559.152741	-0.0825624	0.22690328	-0.3638661	0.71595803	0.88472721
1810043H04I	798.540819	-0.0825945	0.25924952	-0.3185908	0.7500368	0.90092664
Caap1	1964.95518	-0.0827613	0.20972394	-0.3946204	0.69312305	0.87461511
Zfp52	657.70748	-0.0827745	0.1936623	-0.4274166	0.66907594	0.86018518
Snord93	10.5341971	-0.0827818	0.42931208	-0.1928243	0.84709655	0.94147896
Aldh1a2	564.572171	-0.0828386	0.3618972	-0.228901	0.8189459	0.93036217
Eif2ak1	4056.00376	-0.0828598	0.19023168	-0.4355733	0.66314637	0.85645621
Lrrc66	2.79121185	-0.0828745	0.25529671	-0.3246204	0.74546836	NA
Naglu	199.604621	-0.0829029	0.34591401	-0.2396634	0.81059119	0.9275573
Oaz1	5.73425255	-0.0830007	0.41658605	-0.1992401	0.84207492	NA
Psmc4	13427.3275	-0.0830189	0.20219777	-0.4105825	0.68137867	0.86734714
Plek2	300.980922	-0.0831339	0.3071483	-0.2706637	0.78664971	0.91606931
Tmc8	442.390088	-0.0831413	0.2325042	-0.3575906	0.72064972	0.88654567
Hnrnp3	4086.99824	-0.0831429	0.26455929	-0.3142695	0.75331638	0.90191816
Scg5	1.74153619	-0.0831518	0.2697415	-0.3082648	0.75788085	NA
Gabbr2	3.14762289	-0.0831844	0.36341583	-0.228896	0.81894973	NA
2310022A10f	3648.24016	-0.0832202	0.17975471	-0.4629652	0.64338928	0.84490346
Neil1	500.371794	-0.083221	0.20183219	-0.4123276	0.68009933	0.86644421
Gsdma	68.7868917	-0.0832455	0.39738424	-0.2094835	0.83407078	0.93583223
Eif4a3	9569.80981	-0.0833586	0.22135728	-0.3765795	0.70648612	0.88063557
Mir34a	0.76318855	-0.0834193	0.18011433	-0.4631462	0.64325959	NA
Eaf1	6369.5514	-0.0835201	0.19671774	-0.424568	0.67115165	0.86169074

Bcl6b	90.875303	-0.0836073	0.41911147	-0.1994871	0.84188172	0.93972068
Thtpa	1284.14192	-0.0836252	0.16113179	-0.5189862	0.60377036	0.82288924
Gm7244	2.6728214	-0.0836714	0.32628834	-0.2564339	0.79761585	NA
1700040L02F	1.54230902	-0.0836776	0.31203096	-0.2681709	0.78856778	NA
Sc5d	2521.89605	-0.0837603	0.19072372	-0.4391709	0.66053767	0.85514663
Tap2	53.5804911	-0.0839129	0.37916755	-0.2213083	0.82485242	0.9311324
Eefsec	2404.18058	-0.083951	0.21376245	-0.3927302	0.69451878	0.87496374
1700001O22I	229.686868	-0.0839659	0.36429311	-0.23049	0.817711	0.93032
Gltscr1	685.044843	-0.0839818	0.26813791	-0.3132037	0.75412592	0.90191816
Tia1	3043.4451	-0.0840131	0.21619465	-0.3885993	0.69757258	0.87645821
Snora16a	202.264813	-0.0840501	0.30000349	-0.2801639	0.77935178	0.91262797
1700017B05F	2441.51261	-0.0840878	0.19571346	-0.4296476	0.66745199	0.85916281
Fam193a	3007.01349	-0.0840938	0.23294392	-0.3610046	0.71809605	0.88550762
Clcc1	1940.844	-0.0841054	0.15699815	-0.5357097	0.5921592	0.81666085
Wnt4	6.2292171	-0.0841366	0.37897614	-0.2220104	0.82430582	0.93107393
Calm2	30531.8853	-0.084216	0.19685915	-0.4277983	0.66879796	0.8600411
Eda	491.320717	-0.0842727	0.27256125	-0.3091882	0.75717841	0.90301693
Ubqln4	13170.314	-0.0843149	0.16879523	-0.4995097	0.61742034	0.83032065
Mark1	652.19642	-0.0843411	0.30750578	-0.2742749	0.78387338	0.91455554
Mrgprg	2.39193635	-0.0843594	0.24422384	-0.3454186	0.72977973	NA
Tmem201	3481.59741	-0.0843958	0.18529753	-0.4554611	0.64877758	0.84862854
Tk2	1253.98966	-0.0844503	0.21694118	-0.3892775	0.69707088	0.87645821
Tmem222	2501.50572	-0.0844911	0.21504121	-0.3929066	0.6943885	0.87496374
Ces1a	2.48697249	-0.0845921	0.29117684	-0.2905179	0.77142004	NA
Cpsf1	8636.3775	-0.0846395	0.19308076	-0.4383634	0.66112285	0.85541281
Dedd2	990.117087	-0.084665	0.22125238	-0.3826624	0.70197009	0.87857842
Calm1	21012.0331	-0.0847604	0.14038218	-0.603783	0.54598791	0.78719247
Mrps15	3967.13777	-0.0847689	0.17555148	-0.4828722	0.62918649	0.83631803
Epm2aip1	3642.39156	-0.0848109	0.24181402	-0.3507278	0.72579258	0.88928462
Srrm4	94.1461039	-0.0849114	0.29757215	-0.2853471	0.77537822	0.91030389
Ctif	882.509414	-0.0849712	0.29212674	-0.2908711	0.77114987	0.90875167
Pycrl	1523.06999	-0.0854404	0.22229512	-0.3843559	0.70071466	0.87785127
Saal1	5185.93703	-0.0854593	0.20571403	-0.4154276	0.67782894	0.86555439
Tmem91	47.1512989	-0.0855996	0.41583816	-0.2058482	0.83690946	0.93707333
Kctd21	219.426223	-0.0856594	0.29784443	-0.2875978	0.77365461	0.9098882
A330049N07	1.08439655	-0.0857548	0.20930556	-0.4097112	0.68201783	NA
Atp5o	18984.0779	-0.0857774	0.18747851	-0.4575322	0.64728859	0.84773328
Slc9a9	1.59170263	-0.0858547	0.23056705	-0.3723634	0.70962232	NA
Zbtb6	1703.87948	-0.0858718	0.20394126	-0.4210613	0.67371032	0.86321737
Cyb5r2	157.649777	-0.0858859	0.33849847	-0.2537261	0.79970714	0.92229648
Edem3	4378.31773	-0.085899	0.22770685	-0.377235	0.70599896	0.88029104

Atp5sl	2051.7327	-0.0859095	0.18794984	-0.4570873	0.64760832	0.84806214
Wdr12	8289.00441	-0.0859384	0.15253392	-0.563405	0.57315916	0.80618651
Gm10863	66.3759077	-0.0860102	0.42298988	-0.2033387	0.83887028	0.93836543
2810001G20I	235.301979	-0.086088	0.26214698	-0.3283959	0.74261237	0.89701854
Tpgs2	1793.09561	-0.0861084	0.18441491	-0.4669276	0.64055171	0.84302806
Atp1a2	177.911582	-0.0861601	0.38545587	-0.2235278	0.82312477	0.93107393
Kif13b	3244.02497	-0.0861952	0.26995416	-0.3192956	0.74950236	0.90084943
Senp2	7296.15548	-0.0862612	0.17607766	-0.4899041	0.62420179	0.83307261
Apobec1	1357.17453	-0.0862655	0.29139144	-0.2960469	0.76719426	0.90649963
Jazf1	19.1606106	-0.0863859	0.42189009	-0.2047592	0.83776024	0.93751696
Mir7647	1.62760593	-0.0864206	0.22793769	-0.3791415	0.70458277	NA
R3hdml	9.9393136	-0.0865383	0.43004231	-0.201232	0.84051717	0.93927008
Papln	39.6611266	-0.0865395	0.36823234	-0.2350134	0.81419834	0.92878688
Znfx1	2203.12874	-0.0865405	0.23631418	-0.3662096	0.71420866	0.88425449
Gbp3	2.34078108	-0.0865476	0.30456554	-0.2841673	0.77628218	NA
BC017643	1464.48383	-0.08662	0.19402714	-0.4464324	0.65528492	0.85234189
Ids	1085.28397	-0.0866268	0.26178501	-0.3309081	0.74071389	0.89591987
Rnf8	3180.97426	-0.0866974	0.17524464	-0.4947224	0.62079612	0.83166786
Nckap1	14497.6236	-0.0867807	0.17782194	-0.4880199	0.62553572	0.83406551
lldr1	4555.39455	-0.0868022	0.25530154	-0.3399988	0.7338574	0.892514
Lrrc25	6.86698441	-0.0868221	0.39724348	-0.2185613	0.82699179	0.93192387
2410089E03F	2747.13625	-0.0868856	0.24264928	-0.3580706	0.72029051	0.88634683
Cad	28431.9913	-0.0868876	0.22991841	-0.3779064	0.70550009	0.87995123
Spem1	1.94077949	-0.0869668	0.30404986	-0.2860281	0.77485663	NA
Chadl	196.18592	-0.0870291	0.32428749	-0.2683702	0.78841441	0.91719581
Setd4	746.989231	-0.0870365	0.25709256	-0.3385415	0.73495513	0.89326199
Dnal4	862.481512	-0.0870419	0.22054088	-0.3946749	0.69308284	0.87461511
Galnt2	7682.84112	-0.0871537	0.20254011	-0.4303034	0.66697495	0.85904649
Spatc1l	0.99621837	-0.0871999	0.23491674	-0.3711949	0.7104924	NA
A630077J23R	1.44976705	-0.0872455	0.22704557	-0.3842642	0.70078264	NA
Ly6g6f	1.20497696	-0.0872696	0.21107703	-0.4134488	0.6792778	NA
Smim8	1418.68527	-0.0872898	0.24790102	-0.3521155	0.72475166	0.88879488
Tulp3	5450.84026	-0.0872928	0.20278748	-0.4304646	0.66685769	0.85903777
1700019L03F	10.974481	-0.0873106	0.41891871	-0.2084191	0.83490178	0.93631091
Shoc2	4688.53724	-0.0873318	0.19564669	-0.4463752	0.65532628	0.85234189
Foxn4	183.857943	-0.0876426	0.42469239	-0.2063674	0.83650396	0.93698697
Aldh1a7	2.30002982	-0.0876603	0.31863872	-0.2751088	0.78323267	NA
Traf7	7843.85003	-0.0876673	0.17571123	-0.4989282	0.61782994	0.83032275
9-Mar	620.494117	-0.0876804	0.22315438	-0.3929135	0.69438339	0.87496374
Tbl3	6709.24513	-0.0876866	0.17913135	-0.4895102	0.62448051	0.8333359
Klhl21	1977.86809	-0.0876977	0.19705987	-0.4450309	0.65629745	0.85271673

Mtrf1	884.641075	-0.0877657	0.18686651	-0.4696704	0.6385905	0.84187189
Tet2	8575.43505	-0.0878009	0.20898167	-0.4201369	0.67438544	0.86375836
Ypel1	391.693846	-0.0878746	0.27800404	-0.3160911	0.75193339	0.90163592
Synpo2	28.7031874	-0.0878904	0.42028698	-0.2091201	0.83435451	0.93601076
Nlk	3936.9152	-0.087896	0.20049814	-0.4383882	0.66110488	0.85541281
Ppp1r16a	1549.08505	-0.0880098	0.22543459	-0.3904006	0.69624034	0.87598977
Klhdc8b	270.775947	-0.0880245	0.23840944	-0.3692157	0.71196696	0.88334116
Ttc7b	3860.96214	-0.0881046	0.15889325	-0.554489	0.57924426	0.80819076
Etv3	1720.08557	-0.0881612	0.20786897	-0.4241191	0.67147897	0.86170733
Coq6	2086.61148	-0.0881782	0.16319868	-0.5403119	0.58898193	0.81437343
Prdm8	5.82810561	-0.0882035	0.39463754	-0.223505	0.8231425	NA
Rbbp7	18756.9915	-0.0882397	0.20590668	-0.4285422	0.6682564	0.85977126
Poldip2	6909.8355	-0.0884088	0.17332624	-0.5100719	0.61000112	0.82596711
Rnf166	786.160531	-0.0884178	0.23298025	-0.3795078	0.70431081	0.87942876
Zfp963	278.520427	-0.0884574	0.25344159	-0.3490248	0.7270707	0.88958902
Slc8a1	29.1748106	-0.0884994	0.432011	-0.2048546	0.83768572	0.93751696
Wasl	5004.44226	-0.088564	0.21485103	-0.4122112	0.68018461	0.86644421
Nphp3	1337.49123	-0.088603	0.19084323	-0.464271	0.64245361	0.84424506
Ube2q1	8012.80221	-0.0888138	0.15041105	-0.5904739	0.55487298	0.7941128
Pls3	6700.83339	-0.0888415	0.23123971	-0.3841964	0.70083292	0.87785127
Mir301b	0.98642161	-0.0888425	0.23215773	-0.3826818	0.70195569	NA
C330013F16F	301.373705	-0.0889164	0.23684463	-0.3754207	0.70734761	0.88105428
Lingo1	220.897274	-0.0890256	0.36421954	-0.2444284	0.80689901	0.92559319
Becn1	5471.71679	-0.0890812	0.18261628	-0.4878052	0.62568781	0.83419677
Scaf1	5341.87245	-0.0891076	0.20108999	-0.4431232	0.65767662	0.85322343
Aen	5053.68599	-0.0891455	0.1745293	-0.5107764	0.6095076	0.82596491
Atp13a5	0.85151357	-0.0891824	0.1809783	-0.4927798	0.62216822	NA
Dnah5	14.5211751	-0.0891869	0.43175393	-0.2065689	0.83634656	0.93698697
Ogfod2	348.210388	-0.0892804	0.3012455	-0.296371	0.76694675	0.90649963
Styx	361.702845	-0.0892952	0.20036234	-0.4456684	0.6558368	0.85260978
Slc40a1	43.8980084	-0.0893203	0.43225224	-0.2066393	0.83629159	0.93698697
Sltm	9047.27766	-0.0893799	0.18650859	-0.4792266	0.63177741	0.8377965
Xpo6	8417.33384	-0.0894197	0.21616045	-0.4136727	0.67911379	0.86604267
Prpf18	3871.3588	-0.0894374	0.16183007	-0.5526622	0.58049475	0.80865954
Kirrel	4639.49383	-0.0894502	0.27966491	-0.3198479	0.74908361	0.90084943
L2hgdh	4426.19922	-0.0894827	0.17118104	-0.5227372	0.60115712	0.82154763
Efna4	1011.69098	-0.0894884	0.25980267	-0.3444477	0.73050965	0.89091255
Prkar2a	6804.92675	-0.0896302	0.20347818	-0.4404903	0.65958203	0.854457
4930527F14F	1.19242713	-0.0896823	0.21079197	-0.4254539	0.67050581	NA
Atp5a1	103072.159	-0.0896871	0.17129977	-0.5235679	0.60057915	0.82128089
Zfp454	563.250827	-0.0897445	0.25693799	-0.3492846	0.72687563	0.88950684

Mib2	2756.07391	-0.0897815	0.21158117	-0.424336	0.67132081	0.86169525
Ptcd3	11557.7327	-0.0897908	0.16317781	-0.5502637	0.58213853	0.81000763
Sox13	2347.35923	-0.0897992	0.23656098	-0.3796027	0.70424035	0.87942876
Spata20	14.853177	-0.0898223	0.42623796	-0.2107328	0.83309577	0.93520508
Kcnk10	2.01830663	-0.0898669	0.2442216	-0.3679729	0.71289347	NA
Senp5	2705.77753	-0.0899039	0.19827453	-0.4534314	0.65023816	0.84900546
Vangl1	5197.96353	-0.0899549	0.1619027	-0.555611	0.57847682	0.80782085
Polb	2228.67152	-0.089956	0.20470231	-0.4394477	0.66033721	0.85504245
Pom121l2	8.93511832	-0.0899667	0.43151702	-0.2084893	0.83484693	0.93631091
Rd3	2.26650221	-0.090009	0.31847934	-0.282621	0.77746737	NA
Med31	1169.11332	-0.0900834	0.22222099	-0.4053774	0.68520011	0.86969857
Cdc42bpa	2389.44725	-0.0901305	0.18953889	-0.4755253	0.63441262	0.83928202
Nrm	2149.34029	-0.0902473	0.18694715	-0.4827425	0.62927857	0.83633117
Exoc2	2726.87739	-0.09025	0.19119822	-0.4720235	0.63691005	0.84086834
Lrcol1	93.5099709	-0.0902507	0.39979091	-0.2257448	0.82139988	0.93076517
Cldn25	2671.47224	-0.0902559	0.18342914	-0.4920478	0.62268555	0.83247791
Prr12	4105.3899	-0.0903232	0.25725874	-0.3510986	0.72551436	0.88922398
R3hdm1	6356.00025	-0.0905144	0.1553446	-0.5826688	0.5601163	0.79814554
Lamb2	4606.7741	-0.0905168	0.1939113	-0.466795	0.64064657	0.84308156
Tmem55a	4100.42862	-0.0905421	0.151097	-0.5992316	0.54901848	0.78951233
Zwint	7517.6074	-0.0906178	0.15477663	-0.5854749	0.55822844	0.79658335
Dhx40	5677.7815	-0.0906537	0.1665324	-0.5443607	0.58619327	0.8126129
Abca17	18.0179607	-0.0907164	0.40956981	-0.221492	0.8247094	0.93107393
Large	1392.93474	-0.0907182	0.18953597	-0.4786332	0.6321996	0.83806461
Cyp2c69	7.09616061	-0.0908535	0.4226215	-0.214976	0.82978603	0.93342798
Calhm1	2.03011139	-0.0908725	0.27643108	-0.3287347	0.74235624	NA
Tmem108	311.400751	-0.091014	0.38280236	-0.2377572	0.81206943	0.92863385
Zfp444	1713.22113	-0.091035	0.22429314	-0.4058749	0.68483453	0.86944308
Foxp1	435.827404	-0.0910855	0.31031192	-0.2935289	0.7691179	0.90747742
Ado	3321.91903	-0.0910966	0.21003616	-0.4337188	0.66449263	0.85719825
Plekhh1	7882.8177	-0.0911022	0.21125805	-0.4312365	0.66629638	0.8585804
Polr3k	3090.92013	-0.0911113	0.2271137	-0.4011704	0.6882947	0.8714925
C1ra	5.7941977	-0.0911257	0.38397288	-0.2373231	0.81240611	NA
Eno3	837.626637	-0.0911493	0.26103028	-0.3491904	0.72694634	0.88950684
Col18a1	7699.21762	-0.091226	0.32383738	-0.2817032	0.77817108	0.91216552
Ctps	13501.1163	-0.091282	0.14412689	-0.6333447	0.52650859	0.77418069
4930504O13l	2.58319548	-0.091293	0.32898826	-0.2774963	0.78139902	NA
Pld2	423.03467	-0.0913739	0.30948343	-0.2952466	0.76780552	0.90649963
Il17re	30.2985644	-0.0913857	0.38790672	-0.2355868	0.8137533	0.92878688
Bag5	1549.34115	-0.0914625	0.19264225	-0.4747788	0.63494464	0.83934241
Tmem259	4791.88909	-0.0915493	0.18891705	-0.4846003	0.62795992	0.83543543

Anp32b	22942.9188	-0.0915555	0.18073781	-0.5065651	0.61245997	0.82770184
Bcl10	2779.70906	-0.0916587	0.14845193	-0.61743	0.53695114	0.78108804
Slc16a11	20.7085967	-0.0916853	0.43162039	-0.2124212	0.83177842	0.93433879
Dhx38	5466.36991	-0.0917481	0.292668	-0.3134888	0.75390937	0.90191816
Myl3	1.28041959	-0.0917674	0.27383478	-0.3351195	0.73753496	NA
Pgd	18437.081	-0.0918206	0.22072597	-0.4159938	0.67741457	0.8654678
Snrk	536.232496	-0.0918447	0.22376339	-0.4104546	0.68147249	0.86734737
Nup62-il4i1	20.5325301	-0.0918794	0.41811615	-0.2197462	0.8260688	0.93162637
Mrps22	2861.61373	-0.0918821	0.15084162	-0.6091299	0.54243835	0.78520513
Slain1	1034.89348	-0.0919239	0.26588023	-0.3457343	0.72954243	0.89040454
Snapc5	1733.27824	-0.0919267	0.18621857	-0.4936493	0.62155391	0.83196874
Gm15612	1.6488085	-0.0920691	0.2956636	-0.3113982	0.75549795	NA
Gm15413	1.6488085	-0.0920691	0.2956636	-0.3113982	0.75549795	NA
Cd320	2327.02787	-0.0921081	0.1984626	-0.4641079	0.64257046	0.84425594
Epgn	1.31165489	-0.0921184	0.25288278	-0.3642729	0.71565421	NA
Tex36	1.70728249	-0.0921744	0.29162965	-0.3160667	0.75195186	NA
Spag1	515.768209	-0.0922881	0.1971134	-0.4681979	0.63964305	0.84238903
Cdca8	8423.43252	-0.0922966	0.17667772	-0.5224009	0.60139119	0.82154763
Ppap2a	2395.51628	-0.0923337	0.2204485	-0.4188446	0.67532969	0.86422417
Zcchc2	2807.25782	-0.0924868	0.20422796	-0.4528606	0.65064914	0.84904399
Vps72	3705.33863	-0.0924928	0.17512051	-0.5281667	0.59738365	0.81957769
Rabep1	6118.7928	-0.092521	0.17873193	-0.5176526	0.6047007	0.82336928
Snx8	2096.70641	-0.0928409	0.16674586	-0.5567806	0.57767734	0.80754389
Fanca	5654.25087	-0.0929655	0.22711642	-0.4093295	0.68229787	0.86782626
4933422H20I	6.04204388	-0.092975	0.41448955	-0.2243121	0.82251446	0.93107393
Mxi1	3247.99743	-0.0930051	0.18758009	-0.4958156	0.62002455	0.83138912
Trim38	8.33099387	-0.0931158	0.42041851	-0.2214836	0.82471587	0.93107393
Mir182	1.06411173	-0.0931203	0.23557397	-0.395291	0.69262812	NA
Mkks	2681.52455	-0.0931477	0.16149731	-0.5767756	0.56409107	0.80062448
Ndufs4	7753.82822	-0.0931601	0.21830613	-0.4267407	0.66956819	0.86052797
Snora2b	27.4278401	-0.0931868	0.41150455	-0.2264539	0.82084841	0.93066591
Ggt7	352.623372	-0.0932809	0.35524588	-0.2625813	0.79287329	0.91924101
Snx4	7584.93119	-0.0933118	0.15227324	-0.6127916	0.54001418	0.78381188
Gm11944	83.2647557	-0.0933239	0.30554039	-0.305439	0.76003183	0.90409661
Ttc9c	7035.76471	-0.0933933	0.17120423	-0.5455083	0.58540395	0.81209791
Rbp2	9.12711115	-0.0935469	0.41154179	-0.2273084	0.82018398	0.930536
Tmem30a	5063.91856	-0.0936187	0.20639445	-0.4535911	0.65012315	0.84900546
Add2	6.35420989	-0.0936478	0.42244048	-0.2216827	0.82456088	0.93107393
Endov	575.077953	-0.0937348	0.23264955	-0.4029014	0.68702079	0.87068415
Fkbp2	1117.57331	-0.093741	0.24085314	-0.3892038	0.69712541	0.87645821
Ankmy2	3590.37353	-0.0937958	0.16902081	-0.5549364	0.57893814	0.80810223

Rnf126	3126.77906	-0.0938162	0.20144147	-0.4657244	0.64141278	0.84346082
Slc39a3	411.073068	-0.0938475	0.222333	-0.4221033	0.67294959	0.86279388
Irf4	0.91787583	-0.0939334	0.1816851	-0.5170122	0.60514766	NA
Actr3	10619.6603	-0.0939655	0.1599538	-0.587454	0.55689882	0.7957956
Tsr1	16018.0482	-0.0940546	0.19042004	-0.4939323	0.621354	0.83196874
Dlat	7138.65965	-0.0940895	0.20595891	-0.4568362	0.64778878	0.84806214
Shank1	67.4154303	-0.0941835	0.40071009	-0.2350415	0.81417649	0.92878688
5-Sep	94.9637407	-0.0942527	0.35902971	-0.2625207	0.79292	0.91924101
Abca5	311.076941	-0.0942727	0.29364149	-0.3210469	0.74817484	0.90057336
Mrps14	4366.18955	-0.0943593	0.16418251	-0.574722	0.56547934	0.80155685
Cmtr1	5937.23191	-0.0943831	0.1557482	-0.6059979	0.54451612	0.78623679
Arl1	3638.19958	-0.0943884	0.14677489	-0.6430825	0.52017058	0.76986886
Ly6f	6.418692	-0.0944516	0.41532784	-0.2274146	0.82010135	0.930536
Gm3258	6.59602891	-0.09446	0.41397694	-0.2281769	0.81950873	0.93046822
Pctp	422.123769	-0.0944667	0.32724364	-0.2886739	0.77283096	0.90962818
2310007L24F	1.55135828	-0.0945096	0.1953049	-0.4839081	0.6284511	NA
Haus1	4811.58027	-0.0945466	0.24590547	-0.3844834	0.70062017	0.87785127
Hnrnpul2	22136.7292	-0.0948174	0.20963862	-0.4522897	0.65106032	0.84938247
3010026O09I	1152.73666	-0.0948536	0.24898963	-0.3809539	0.70323744	0.87926282
Apold1	113.261221	-0.0949279	0.4201936	-0.2259146	0.82126785	0.93076517
Pan2	6073.67622	-0.0949942	0.17438018	-0.5447537	0.58592296	0.8125279
Zswim1	3501.17328	-0.0950251	0.17966239	-0.5289092	0.59686844	0.81955304
Ppp1r32	15.1885168	-0.0950573	0.42647169	-0.2228923	0.82361933	0.93107393
Kctd13	597.430719	-0.0950743	0.2409759	-0.3945386	0.69318341	0.8746203
Kdm3a	21919.0452	-0.0951005	0.18916559	-0.5027369	0.61514924	0.82953469
Mink1	3246.53335	-0.0951083	0.21396913	-0.4444955	0.65668437	0.85275541
Sdhaf1	894.293773	-0.0952182	0.20097685	-0.473777	0.63565892	0.83971559
Api5	15210.0834	-0.0953299	0.17517396	-0.544201	0.58630313	0.81262032
Mir27a	0.79781964	-0.0953381	0.19363936	-0.492349	0.62247264	NA
Gpr142	0.79781964	-0.0953381	0.19363936	-0.492349	0.62247264	NA
Klf2	13662.1195	-0.0953677	0.18625318	-0.5120328	0.60862808	0.82562526
Agbl5	1031.49293	-0.095382	0.19638779	-0.485682	0.62719268	0.83498616
Plekha1	5032.01948	-0.0953891	0.14647094	-0.6512496	0.51488541	0.76651865
Pars2	1222.91454	-0.0953905	0.19343395	-0.4931424	0.62191197	0.83196874
E130215H24I	1.69297101	-0.0954588	0.29150668	-0.327467	0.74331468	NA
Pmm1	11807.062	-0.0954607	0.18488637	-0.5163211	0.60563013	0.82418428
Taco1	1096.13127	-0.0954802	0.19557802	-0.4881952	0.6254116	0.83404303
Cenph	5023.39755	-0.0955492	0.19830535	-0.4818287	0.62992763	0.83655035
Rprm	54.9495662	-0.0956145	0.38314806	-0.2495497	0.80293558	0.92352256
Speer4b	3.45962959	-0.0956374	0.22875712	-0.418074	0.675893	NA
Mcur1	990.764499	-0.0957055	0.18433317	-0.5191985	0.60362231	0.82288924

Rpl22l1	13045.5655	-0.0958956	0.23706685	-0.4045087	0.68583871	0.87014375
Wbp4	3690.76771	-0.0958958	0.1449431	-0.6616102	0.50822105	0.76323954
Fbxo18	5254.12597	-0.0959097	0.17411632	-0.5508368	0.58174554	0.80984021
4930430A15f	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Gm5127	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
4930593C16f	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Dnah9	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Gm16617	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Gm12718	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Musk	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
4930414N06l	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
G630071F17f	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Neurod2	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Klk1b27	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Pabpc5	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Pcdhb2	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Il27	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Tectb	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Lilrb4	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Gm2837	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
4921508D12l	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Zdhhc11	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Glyat	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Taar1	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
1700121N20l	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Mir1195	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Klre1	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Gm17746	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Gm20187	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Gucy2d	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
4933415F23F	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Stap1	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Scnn1g	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Cml5	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Gdf6	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Olf1107	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Lgi4	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
H2-L	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Mir7021	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Pcp4	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Hottip	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA

Ambn	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Tmbim7	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Neto1	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
D530049I02R	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
4833411C07F	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Olfm3	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
D730048I06R	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Gm10445	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Rxfp1	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
BC049352	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
4931440J10R	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Kcnj5	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
4930556N09I	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Glp2r	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
4930520P13F	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
F13a1	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
ERCC-00004	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Slc17a1	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
H2-M1	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
1700018G05I	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
1700027A15f	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Gzmn	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Slc17a2	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Mir3473g	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Mug-ps1	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Scgb1b27	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Mir1947	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Ostn	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Hyal4	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Nlrp9a	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Gm14436	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Apoa4	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Gm7616	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Svs5	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Olf1510	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Sstr4	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Mir7069	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Rcvrn	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Mir101b	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Hcar2	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Mrgprx2	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA

Ugt2b35	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Mir6916	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Ccr2	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Ldb2	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Gm4759	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
C230024C17F	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Gm10142	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Gm4432	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Slx	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Zfp957	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Mir7034	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Ofcc1	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
2310020H05I	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Bpifb3	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
1500017E21F	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Clrn1	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Mir8093	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Krt34	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Cd163	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Gm4884	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Lyz1	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Clec1a	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
1700006E09F	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Nrl	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Olfr979	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Antxrl	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Cntnap5b	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Il1rapl2	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Mir692-1	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Gm9268	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
1700027J07R	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Fcnb	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Dear1	0.15468727	-0.0959636	0.15181388	-0.6321134	0.5273128	NA
Ccdc159	74.6177775	-0.0960181	0.31544998	-0.3043845	0.76083499	0.90436024
Chrna10	9.17614352	-0.0961631	0.40084213	-0.2399028	0.81040563	0.9275573
Drd1a	1.0515619	-0.0962429	0.23519322	-0.4092077	0.68238721	NA
Il4ra	91.8935853	-0.0962446	0.37747806	-0.2549674	0.79874824	0.92171351
Eif2ak3	2426.27488	-0.0962689	0.20931317	-0.4599276	0.64556821	0.84633547
Erlec1	1764.08718	-0.0962856	0.20867268	-0.4614195	0.64449765	0.84561062
Snora44	90.360956	-0.0963605	0.30804074	-0.3128173	0.75441945	0.90191816
Ifitm6	33.1722418	-0.0964311	0.43224422	-0.223094	0.82346238	0.93107393

Nell1	4.15651928	-0.0964518	0.37482007	-0.2573284	0.7969253	NA
Cldn14	8.85729215	-0.0964619	0.37440602	-0.2576399	0.79668483	0.92070321
Ndufb3	2798.59684	-0.0964793	0.20457471	-0.4716091	0.63720583	0.84104463
Trmt10a	2539.45015	-0.0964917	0.17264655	-0.5588975	0.57623168	0.80734073
Erap1	336.513604	-0.0965027	0.27700886	-0.348374	0.7275593	0.88986097
Luc7l2	10639.9138	-0.0965722	0.19024274	-0.5076264	0.61171539	0.8270499
Inpp5e	793.552155	-0.0965996	0.2160595	-0.4470973	0.65480484	0.85212302
Mettl14	3211.56567	-0.0966024	0.14620864	-0.6607159	0.50879454	0.76362746
Rnase6	7.9929247	-0.0966184	0.36885278	-0.2619429	0.79336544	0.91954293
Ing3	2348.88776	-0.0966382	0.17977259	-0.5375579	0.59088227	0.8159154
Lipe	810.101858	-0.0966799	0.21461456	-0.4504814	0.65236333	0.85029773
Ogt	17680.8701	-0.0967291	0.16659221	-0.5806342	0.56148699	0.79905798
Kcns2	23.9312575	-0.096905	0.42504745	-0.2279863	0.81965688	0.93046822
Aggf1	5046.20516	-0.0969264	0.19655384	-0.4931288	0.62192159	0.83196874
Dpy19l1	6659.91949	-0.0969747	0.16841448	-0.57581	0.56474365	0.8012435
Cog3	3734.2609	-0.0969829	0.15268632	-0.6351774	0.5253127	0.77308014
Sipa1	762.279602	-0.0970113	0.21756135	-0.4459034	0.65566702	0.8525124
Tmem60	1433.14153	-0.0970296	0.2384371	-0.4069399	0.6840521	0.86895068
Cntnap1	26.0212584	-0.0972034	0.43079943	-0.2256349	0.82148541	0.93076517
Rfesd	541.387121	-0.0972049	0.22637271	-0.4294021	0.66763064	0.85924293
Clic5	1.30965659	-0.0974951	0.27909481	-0.3493262	0.72684442	NA
Coq5	2643.24347	-0.0975426	0.17322204	-0.5631076	0.57336162	0.80635813
Hcn2	625.199873	-0.0976079	0.18576785	-0.5254294	0.59928473	0.8201599
Gm13752	12.2758468	-0.0977002	0.39228974	-0.249051	0.80332132	0.92355442
Eya3	5769.02786	-0.0978085	0.188003	-0.5202497	0.60288956	0.82248755
Tmem44	519.762385	-0.0978392	0.26571612	-0.3682095	0.71271706	0.88384872
Cldn20	10.1670362	-0.0978491	0.43153253	-0.2267479	0.8206198	0.930536
Flrt3	239.449861	-0.0978602	0.35228516	-0.2777869	0.78117595	0.91331984
Tmprss3	1.96149194	-0.0979201	0.30601766	-0.3199818	0.74898211	NA
Cdh19	2.90680784	-0.0979299	0.36599517	-0.2675716	0.78902907	NA
Sgip1	1.04440616	-0.0979953	0.23496517	-0.4170631	0.67663224	NA
Gm14085	0.81714782	-0.0980597	0.19498834	-0.5029001	0.61503452	NA
Ndufs7	3252.34673	-0.0980768	0.21529889	-0.455538	0.64872224	0.84862854
Ndufa11	4909.91089	-0.0981717	0.22603167	-0.4343274	0.66405071	0.85698362
Atp7a	3230.23568	-0.0981734	0.23129986	-0.424442	0.67124346	0.86169074
Ppif	3235.33659	-0.0982572	0.1681954	-0.5841846	0.55909614	0.79722208
Rab3c	0.78526981	-0.0983601	0.19307549	-0.5094384	0.61044499	NA
Slc3a2	16813.7921	-0.0983783	0.15337961	-0.6414038	0.5212604	0.77003139
Rnmtl1	785.739416	-0.0983878	0.19916208	-0.4940088	0.62129997	0.83196874
Dpy30	13633.7298	-0.0983927	0.21288676	-0.4621832	0.64394997	0.84524411
Anapc4	6182.58005	-0.098427	0.16389278	-0.6005572	0.54813493	0.78882531

Kansl3	4574.97184	-0.0985237	0.16278164	-0.6052509	0.54501231	0.78651585
Camsap1	3729.88237	-0.0985967	0.20929919	-0.4710802	0.63758344	0.84125743
Tmem41a	772.39237	-0.0986477	0.20054248	-0.4919042	0.62278707	0.83253766
Tox4	7575.05585	-0.0986791	0.15443357	-0.6389742	0.52283972	0.77126546
Entpd1	1.19204975	-0.0987012	0.21421635	-0.4607547	0.64497462	NA
Snapc2	1405.15594	-0.0987737	0.18425035	-0.5360841	0.59190046	0.81637641
Syap1	2554.89515	-0.0988598	0.16453692	-0.6008366	0.54794884	0.78881129
Kdm3b	14852.4035	-0.0988982	0.22182053	-0.445848	0.65570708	0.8525124
Mir423	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Mir7031	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Mir1963	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
4930428O21I	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Gm9962	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
4930442L01F	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Slc7a13	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Gm7134	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Gm3985	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Aqp12	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Mir874	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Hist1h4n	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Cxcl15	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Cntn4	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Pih1d3	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
A430090L17F	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Adamdec1	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Cyp2c54	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Olf160	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Cyp4a31	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Actrt2	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Mir7663	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Ppbp	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
H2-M10.3	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Grxcr2	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
A730046J19R	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Olf131	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Mir297b	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Il1bos	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
1810065E05F	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
1700031M16	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Naip7	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
LOC1010562	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA

Taar3	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Pcdhb8	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Olf857	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Gm9866	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Scgb2b27	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Tbc1d22bos	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
1700018A04f	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Myoz2	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Mir6934	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Adam28	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Vmn1r224	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
1700025B11f	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
2810404M03	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
St6galnac1	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
9230009I02R	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Otol1	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Dsg4	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Sst	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Mir1938	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Prl4a1	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Mir6968	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Mir7020	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Itk	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Has2os	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Kcnk18	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Mir1191b	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
E330012B07f	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
C5ar1	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Pcdha3	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
E030025P04f	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Rpe65	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
St6galnac5	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Speer4f	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
1700011L22f	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
A530046M15	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Tsga13	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Mir6931	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Vmn2r23	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
9530052E02f	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Serpnb6d	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Olf984	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA

Olfr1444	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
4833423E24F	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Gm5071	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Gm9994	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Gsdma2	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Adam7	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
4930417O22I	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
9430019J16R	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Myf6	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
2010002M12	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Gm826	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
4933417O13I	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Gje1	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Mir3066	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
4930447J18R	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Atp10b	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Mir192	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
5730460C07F	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Spata31d1c	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Gm829	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Helt	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Cpa3	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
4930502A04F	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Oprm1	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Clec4b1	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Tbx19	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Trat1	0.17676853	-0.0989254	0.15405265	-0.642153	0.52077382	NA
Atp2b1	7985.66689	-0.0989825	0.22695807	-0.4361267	0.66274483	0.85628715
Gemin6	2511.89988	-0.09899	0.16651629	-0.5944763	0.55219359	0.79179683
Fam32a	5581.78653	-0.0990077	0.17865574	-0.5541812	0.57945483	0.80819901
Mir6992	1.05431497	-0.0990219	0.23780657	-0.4163967	0.67711973	NA
Mospd1	671.131223	-0.0990595	0.23311017	-0.4249473	0.67087512	0.86150116
Taf7	16620.0308	-0.0991077	0.14785331	-0.6703109	0.5026596	0.75933521
Hexdc	629.846172	-0.0991556	0.18584552	-0.5335375	0.59366154	0.81735552
Mpv17l2	1274.09575	-0.0992086	0.2221618	-0.4465603	0.6551926	0.85234189
Cyb5b	20623.2345	-0.0992287	0.20588904	-0.4819524	0.62983975	0.83650508
Casc4	5495.60634	-0.0993409	0.18064343	-0.5499283	0.58236856	0.81000763
Rrad	4.87037126	-0.0995288	0.40437483	-0.2461301	0.80558155	NA
Fam150a	2.93539242	-0.099651	0.29867147	-0.3336475	0.73864558	NA
Rbmxl1	3805.76059	-0.0997276	0.17976889	-0.5547546	0.57906255	0.80813229
Vps16	5043.22717	-0.0997545	0.17765726	-0.5614995	0.57445704	0.806724

Pus1	4282.0952	-0.0997831	0.16933682	-0.5892584	0.55568792	0.79491334
Pip4k2a	1739.92054	-0.0998058	0.24998823	-0.399242	0.6897149	0.87272225
Dmgdh	3489.61516	-0.0999181	0.43193185	-0.2313283	0.81705976	0.93016422
Nnt	2655.0728	-0.1000221	0.19147569	-0.5223748	0.60140937	0.82154763
Mir93	10.5318731	-0.1000275	0.4259486	-0.2348346	0.81433712	0.92878688
Ankrd55	3.42184891	-0.1000646	0.3411094	-0.2933504	0.76925433	NA
Taf9b	456.43939	-0.10019	0.32881738	-0.304698	0.76059616	0.90435844
Wash	2282.27362	-0.1001942	0.17114001	-0.5854517	0.55824405	0.79658335
Nos3	125.017593	-0.1002266	0.35704584	-0.2807108	0.7789322	0.9124802
Ece1	1705.85269	-0.1002468	0.28194363	-0.3555561	0.72217305	0.8872265
Qk	19211.5395	-0.1002974	0.21738563	-0.4613801	0.64452593	0.84561062
Dusp28	286.476966	-0.1003084	0.22480955	-0.446193	0.65545785	0.85234189
Vwa9	2604.36032	-0.100321	0.1805953	-0.5555016	0.5785516	0.80785274
Bbs12	321.9685	-0.1003345	0.22314438	-0.4496394	0.65297048	0.85087514
Tmem120b	643.676748	-0.1003562	0.18052602	-0.55591	0.57827238	0.80771125
Zfp110	6682.35979	-0.1005301	0.1474397	-0.6818389	0.49534082	0.75533199
Crabp2	197.010807	-0.1005592	0.3187786	-0.3154515	0.75241889	0.90182644
Ufsp2	2298.4004	-0.1005767	0.1937675	-0.5190585	0.60371992	0.82288924
Orc1	7507.02348	-0.1006011	0.19747926	-0.5094261	0.61045358	0.82628285
Prss36	558.665197	-0.1006728	0.27175287	-0.3704571	0.71104192	0.88254552
Kdm5a	7331.77122	-0.1006858	0.22305841	-0.4513876	0.65171023	0.84981368
5730480H06l	91.625417	-0.1007409	0.3166399	-0.3181561	0.7503665	0.90095125
Abca7	1850.89159	-0.1008253	0.26645176	-0.3783997	0.70513367	0.87969669
Tbc1d13	14380.9725	-0.1008432	0.24374287	-0.4137276	0.6790736	0.86604267
Ikzf1	66.7488184	-0.1008653	0.42054149	-0.2398462	0.81044946	0.9275573
Psm3	11653.9247	-0.1009094	0.19332453	-0.5219689	0.60169201	0.82168861
1700109G14l	0.69169754	-0.1009264	0.21293582	-0.4739758	0.63551719	NA
5430416O09l	0.69169754	-0.1009264	0.21293582	-0.4739758	0.63551719	NA
Dcst1	4.05473347	-0.1009315	0.35790922	-0.2820029	0.77794126	NA
Isca2	1899.3675	-0.1010195	0.22275368	-0.4535031	0.65018649	0.84900546
Atp2c1	7495.62573	-0.1010207	0.18764407	-0.5383634	0.59032619	0.8154987
Vwa1	19.6156968	-0.1011016	0.42609963	-0.2372722	0.81244562	0.92872256
Hnrnpm	27990.419	-0.1011453	0.18909215	-0.5348993	0.59271952	0.81699887
Gm11747	1.86258379	-0.1011542	0.26655106	-0.3794929	0.70432189	NA
Il31	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
4930430F21F	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
8030443G20l	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Slc22a27	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Defb3	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Ankrd7	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Ppp2r2cos	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA

AY761184	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
1700010B08F	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Rs1	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Pcdha11	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Chia1	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Prn	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Gm9199	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Tcp10a	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
1810053B23F	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Vmn2r50	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
4931419H13I	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Gm8765	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Gpr171	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Olfm4	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Mir7006	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
4930465M20	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Olf1392	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Mir6911	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Mir8120	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Pcdhb4	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Olf419	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
2610316D01I	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Mir7025	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
4931420L22F	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Defa26	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Mir7578	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Kcne4	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Mir5103	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Gm5766	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Mir6538	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Pik3cg	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Kcnk9	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Grpr	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Pcdhac1	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Mir654	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Ifi203	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Gm5901	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Mir709	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Il22	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Xkr4	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
1700123O12I	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA

Ceacam-ps1	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Mir1956	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Rgs1	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Mir5128	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Vip	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Lce3b	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Mir5622	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Uts2b	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Mir376c	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Gm10536	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Gm17821	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Mir7045	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
4930583K01F	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Aqp2	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
5730412P04F	0.19609671	-0.1012097	0.15575191	-0.6498133	0.51581281	NA
Psmc3ip	1987.04989	-0.1012874	0.20368077	-0.4972852	0.61898794	0.83090659
Cacna1e	6.09373952	-0.101486	0.4225737	-0.2401617	0.81020493	0.9275573
Naa15	16239.943	-0.1015315	0.20339788	-0.4991769	0.61765477	0.83032065
Gtf2b	3953.32343	-0.1015708	0.20586667	-0.4933813	0.62174323	0.83196874
Cdc26	1366.40813	-0.1015823	0.17254491	-0.5887296	0.55604266	0.79522766
Olf920	0.84198215	-0.1015933	0.19666795	-0.5165729	0.60545432	NA
Il1rap	117.109217	-0.1016382	0.29383285	-0.3459049	0.7294142	0.89040454
Napepld	3593.32091	-0.1016855	0.20287591	-0.5012204	0.61621604	0.83025261
Sin3a	14600.2113	-0.1018922	0.19887787	-0.5123356	0.60841618	0.82562526
Pde6b	32.0011085	-0.101952	0.43214425	-0.2359213	0.81349373	0.92878688
Irs2	335.784734	-0.1020201	0.33707791	-0.3026604	0.76214869	0.90488428
Tmem236	2.34205329	-0.1020383	0.32005898	-0.318811	0.7498698	NA
Plxnb3	62.3429771	-0.1021159	0.38959614	-0.2621072	0.79323882	0.91954208
Sun2	1765.79943	-0.1021819	0.2170733	-0.4707251	0.63783704	0.84137221
Trnau1ap	3388.89365	-0.1022727	0.30526713	-0.335027	0.73760475	0.89417614
H2-K1	2494.71582	-0.1023136	0.27175487	-0.3764921	0.70655112	0.88063557
Morc1	18886.9416	-0.1023465	0.2068241	-0.4948479	0.62070751	0.83162079
Sgsh	361.47328	-0.1023686	0.34345193	-0.2980579	0.765659	0.90618168
Rnase4	101.14624	-0.1023692	0.42735438	-0.2395418	0.8106855	0.92759696
Zbtb33	1421.26993	-0.1024691	0.22645048	-0.4525011	0.65090804	0.84925505
Casp2	2467.8168	-0.1025556	0.16849392	-0.6086606	0.5427494	0.78543607
Zfp786	258.436531	-0.1025603	0.24186416	-0.4240408	0.67153603	0.86170945
Runx1	28.7057555	-0.1026955	0.41402396	-0.2480425	0.80410155	0.92388669
Gpt	318.023333	-0.1027512	0.2619629	-0.3922357	0.69488406	0.87513298
Prkacb	3301.96576	-0.1027693	0.21643945	-0.4748176	0.63491696	0.83934241
Szrd1	6037.30724	-0.1028031	0.20362146	-0.5048737	0.61364752	0.82850171

Sympk	8988.0486	-0.1028172	0.18414495	-0.5583493	0.5766059	0.80734073
Med6	3210.50629	-0.102856	0.17758638	-0.5791888	0.56246177	0.79942162
Myadm	9167.65469	-0.1028644	0.18254619	-0.563498	0.57309579	0.80618651
Nip7	10271.066	-0.1029187	0.21983059	-0.4681727	0.63966106	0.84238903
Tcf23	4.70917505	-0.1029355	0.35378552	-0.2909545	0.77108609	NA
Trap1a	14868.3553	-0.1029492	0.16823375	-0.6119413	0.54057662	0.7844818
Smarca5	25859.8765	-0.1030089	0.20934101	-0.4920629	0.62267489	0.83247791
Phb	3960.93909	-0.1030133	0.20529315	-0.5017865	0.61581769	0.82990514
3930402G23I	0.6845418	-0.1030267	0.21251001	-0.4848087	0.62781202	NA
Itgad	0.6845418	-0.1030267	0.21251001	-0.4848087	0.62781202	NA
Chaf1b	8479.15837	-0.1031624	0.18155543	-0.5682144	0.56988936	0.80449796
Tcf25	13093.2418	-0.1033288	0.20874333	-0.4950038	0.62059741	0.83154492
Elp5	4397.73457	-0.1033882	0.21342862	-0.4844159	0.62809073	0.83553798
Pla2g12b	24.0469749	-0.1035426	0.43203139	-0.2396644	0.81059042	0.9275573
Efcab9	0.80735106	-0.1035461	0.19641863	-0.5271702	0.59807537	NA
Hist2h3b	0.80735106	-0.1035461	0.19641863	-0.5271702	0.59807537	NA
Ppp1cc	8409.77882	-0.1036031	0.14693183	-0.7051096	0.48074201	0.74425276
Exosc6	2339.53435	-0.1036295	0.22118086	-0.4685282	0.63940691	0.84236323
Cxcl16	99.0074869	-0.1037619	0.36165145	-0.2869114	0.77418016	0.90992938
Pde12	2919.86072	-0.103796	0.16220556	-0.6399041	0.52223494	0.77084692
Dgkb	4.14624563	-0.1038811	0.35574168	-0.2920126	0.77027696	NA
Avl9	3964.50223	-0.1039089	0.17906693	-0.5802798	0.56172594	0.79905798
Siah1b	2227.62269	-0.1039094	0.20778954	-0.5000704	0.61702551	0.83032065
1700044C05F	1.72767575	-0.1039834	0.23190558	-0.4483868	0.65387408	NA
Cep78	3369.11614	-0.1040308	0.18007485	-0.5777085	0.56346095	0.79999829
Otud5	4920.58051	-0.1042024	0.16088418	-0.6476861	0.51718799	0.76794869
Dram2	1580.64557	-0.1042044	0.25224131	-0.4131141	0.67952303	0.86624007
Rgs12	1066.35043	-0.1042611	0.21300647	-0.4894739	0.62450625	0.8333359
Mrm1	1405.59443	-0.1043694	0.16922826	-0.6167376	0.53740785	0.78126853
Gltscr1l	6429.80909	-0.1044608	0.24000669	-0.435241	0.66338749	0.85662533
Tsc2	6054.07669	-0.1044991	0.24360894	-0.4289626	0.66795045	0.85951986
Ugp2	3971.68264	-0.1045852	0.1857399	-0.5630734	0.57338488	0.80635813
Pcnxl4	1163.52764	-0.1045943	0.20336131	-0.5143272	0.60702325	0.82472642
Shisa6	3.03705974	-0.1046209	0.32957533	-0.3174414	0.7509087	NA
Clk4	2860.18943	-0.1046658	0.18012846	-0.5810619	0.56119874	0.79905798
Gpr110	4.48056724	-0.1046838	0.35495643	-0.2949201	0.7680549	NA
Sftpd	6.96933792	-0.1047422	0.41337577	-0.2533825	0.79997268	0.92248631
Tsx	271.268713	-0.1047435	0.40443682	-0.258986	NA	NA
B3galnt2	3222.25602	-0.1048007	0.22279258	-0.4703959	0.63807219	0.84154531
Inca1	104.227485	-0.104862	0.41739734	-0.2512282	0.8016377	0.92325551
Clec4e	1.2247562	-0.1050476	0.18544566	-0.5664601	0.57108105	NA

Eogt	1107.76363	-0.1050539	0.34020091	-0.3087997	0.75747389	0.90301693
Tada1	739.578822	-0.1051924	0.23883631	-0.4404374	0.65962036	0.854457
Cd80	714.350694	-0.1052069	0.26997677	-0.3896887	0.69676672	0.87643932
Trpm7	13498.3032	-0.1054277	0.21810818	-0.4833732	0.62883076	0.83602181
Tbc1d20	1741.48551	-0.10544	0.19724327	-0.5345681	0.59294855	0.81705522
Zfp709	430.051315	-0.1054409	0.26060221	-0.4046049	0.68576792	0.87013519
Gtdc1	1070.13127	-0.1054631	0.19830999	-0.5318092	0.59485817	0.81794822
Olfr288	0.89054733	-0.1055249	0.19958899	-0.5287109	0.59700604	NA
Clec2h	0.89054733	-0.1055249	0.19958899	-0.5287109	0.59700604	NA
Mrpl39	6370.19238	-0.1055604	0.16600026	-0.6359049	0.5248384	0.77262188
St13	29105.1614	-0.1055646	0.16997915	-0.6210446	0.53457025	0.77984269
Rap1a	2089.52005	-0.1056273	0.21408592	-0.4933873	0.62173894	0.83196874
Qrsl1	2087.50977	-0.1057552	0.17099853	-0.6184568	0.53627424	0.78076585
Cep250	3874.14241	-0.1058381	0.1933763	-0.5473167	0.58416119	0.81141028
Grip2	35.3329076	-0.1058874	0.43019988	-0.2461353	0.80557751	0.92460963
Pdik1l	1474.8232	-0.1059259	0.22711488	-0.466398	0.64093061	0.84338398
Prkrir	4450.35084	-0.1059586	0.20747757	-0.5106988	0.60956195	0.82596491
Asb10	14.4577803	-0.1060145	0.43059921	-0.2462022	0.80552575	0.92460963
B230119M05	1.72898636	-0.1061474	0.2957463	-0.3589135	0.71965977	NA
Cdc25b	2001.34171	-0.1061628	0.24069314	-0.441071	0.65916157	0.85421847
Pip4k2b	7056.11395	-0.1061843	0.20471677	-0.5186889	0.60397774	0.82288924
Epb4.1l4a	3750.76809	-0.1064825	0.27406152	-0.388535	0.69762019	0.87645821
Shmt1	12693.0669	-0.1065156	0.23461425	-0.4540031	0.64982658	0.84900546
Gm12359	11.618641	-0.106669	0.43227023	-0.2467646	0.80509039	0.92432342
Naa30	4452.27557	-0.1067407	0.20188352	-0.5287242	0.59699677	0.81955304
Mir6924	1.52618495	-0.1067483	0.25181704	-0.4239121	0.67162995	NA
Rnf5	2834.81247	-0.106797	0.22925224	-0.4658493	0.64132337	0.84346082
Rpl39	18751.1064	-0.1068068	0.2458228	-0.4344871	0.66393478	0.85695694
Sgcz	119.826738	-0.1068202	0.1903246	-0.5612527	NA	NA
Rbbp9	2374.19918	-0.1068468	0.15930814	-0.6706926	0.50241638	0.75924357
Gm7977	0.67199197	-0.1068688	0.21175951	-0.5046706	0.61379021	NA
Mir1192	0.67199197	-0.1068688	0.21175951	-0.5046706	0.61379021	NA
Swi5	13695.6978	-0.1069152	0.21431415	-0.4988713	0.61787008	0.83032275
Nhsl1	2204.60127	-0.1069333	0.18101574	-0.5907406	0.55469424	0.79393007
Mir6948	3.27206629	-0.1070238	0.37604317	-0.2846051	0.77594668	NA
Otub2	411.833767	-0.1070363	0.26191868	-0.4086623	0.68278753	0.86812434
Ranbp6	1688.20411	-0.1071422	0.21224186	-0.5048116	0.61369116	0.82850171
2900026A02f	932.416545	-0.1071765	0.20936796	-0.5119051	0.60871741	0.82562526
Cxcl3	0.88339158	-0.1072364	0.19933144	-0.5379801	0.59059077	NA
Dclre1a	1471.48421	-0.1073342	0.20639374	-0.5200458	0.60303168	0.82253711
Cml2	24.0686687	-0.1074959	0.42902054	-0.2505613	0.80215334	0.92349342

Taf2	6417.59298	-0.1076128	0.19725341	-0.545556	0.58537116	0.81209791
Eif4g1	57401.022	-0.1076799	0.21880364	-0.4921303	0.62262726	0.83247791
Apobec3	14338.5821	-0.1076977	0.2266896	-0.4750889	0.63472362	0.83934241
Ppp6c	5257.06516	-0.1077282	0.1655088	-0.6508909	0.51511695	0.76651865
Col8a2	3.627026	-0.1077307	0.37853854	-0.2845965	0.77595333	NA
Gm6812	1.35106603	-0.1077784	0.28369992	-0.3799027	0.70401761	NA
Taldo1	20534.0433	-0.10781	0.20502426	-0.5258402	0.59899927	0.8200579
Arl5a	3793.81333	-0.1078608	0.23673855	-0.4556115	0.6486694	0.84862854
Zfp11	1554.65929	-0.1078988	0.20249043	-0.5328587	0.59413141	0.81764049
Gm5083	3.62515229	-0.107918	0.38086901	-0.2833468	0.77691102	NA
Slc16a10	289.981463	-0.1079261	0.33674335	-0.3204996	0.74858962	0.900659
Psph	4469.51633	-0.1079679	0.19757973	-0.5464524	0.58475498	0.81170442
Eftud1	2865.31818	-0.1080047	0.20215163	-0.5342755	0.59315096	0.81705522
Arhgap39	1466.71166	-0.108118	0.26203894	-0.4126028	0.67989765	0.86642486
Angel1	1394.7865	-0.108121	0.2047722	-0.5280064	0.59749493	0.81965805
Ankk1	20.5399819	-0.1082813	0.41929277	-0.2582475	0.79621591	0.92066778
Rfwd2	1813.84363	-0.1083388	0.17726122	-0.6111818	0.54107923	0.7846986
Zc3h13	5761.60663	-0.1084463	0.19371792	-0.5598155	0.5756053	0.80714793
Rap1gap2	1114.46007	-0.1084934	0.34866601	-0.3111671	0.7556736	0.90203956
Cabp1	1020.04961	-0.1086046	0.2747013	-0.3953551	0.69258082	0.8746012
Gabbrb3	1184.68514	-0.1086559	0.21929811	-0.495471	0.62026769	0.83138967
Mir142	3.53539208	-0.1086728	0.34106598	-0.318627	0.75000941	NA
Zic2	3034.17381	-0.1087748	0.35979674	-0.3023229	0.7624059	0.90498047
Bcas3	4971.34066	-0.1088196	0.28591702	-0.3805986	0.70350108	0.87928906
Cpd	2630.12844	-0.1089008	0.20938209	-0.5201057	0.60298987	0.82253711
Zfr	11518.1021	-0.1089641	0.17823726	-0.6113429	0.54097258	0.7846986
Gdf10	0.84600743	-0.1090423	0.19909404	-0.5476923	0.5839032	NA
Tm7sf3	9317.16909	-0.1091556	0.20127818	-0.5423121	0.58760355	0.81340776
Psm4	14042.844	-0.1091597	0.16121876	-0.6770907	0.49834838	0.75670871
Hey2	27.611679	-0.1091631	0.42724931	-0.255502	0.79833536	0.92164102
A730008H23	1.00337411	-0.1091742	0.26190194	-0.4168514	0.67678713	NA
Sugt1	15782.6226	-0.1091941	0.18330845	-0.5956848	0.55138581	0.79108781
Trim27	7344.32382	-0.1092283	0.18144272	-0.6019987	0.54717498	0.78821846
Dmap1	2466.47857	-0.1092905	0.18660982	-0.5856634	0.55810174	0.79653452
Anks6	53.0545699	-0.1093035	0.39730438	-0.2751128	0.78322958	0.91414013
Hp1bp3	3208.09352	-0.1093983	0.17055097	-0.6414406	0.52123648	0.77003139
Mir5619	1.10410212	-0.1094375	0.23912998	-0.4576486	0.64720491	NA
Ndfip1	3205.32935	-0.109486	0.19918342	-0.5496741	0.58254295	0.81000763
1700109H08I	49.5848183	-0.1094879	0.39030149	-0.2805214	0.7790775	0.91248318
Nmi	247.173982	-0.1095186	0.36378352	-0.3010544	0.76337301	0.90530857
Odf3b	9.92272418	-0.1095791	0.41259296	-0.2655864	0.79055779	0.91821377

Prpsap1	5121.70247	-0.1096283	0.23406944	-0.468358	0.63952862	0.84238903
Rps29	51908.9129	-0.109655	0.20635493	-0.5313901	0.59514851	0.81809904
Nucks1	42171.1508	-0.1096886	0.1796795	-0.610468	0.54155183	0.78492088
Dazap2	6646.87924	-0.1096962	0.16696906	-0.6569851	0.51119048	0.76501865
Garnl3	1389.84918	-0.1097188	0.19758357	-0.5553034	0.57868718	0.80792967
Tram1	8009.78888	-0.1097614	0.15459295	-0.7100024	0.47770268	0.7424775
C1galt1c1	660.68139	-0.1097627	0.17783227	-0.6172261	0.5370856	0.78110674
Slc52a2	1061.04517	-0.109774	0.21595163	-0.5083268	0.61122418	0.82675021
Ermard	513.975815	-0.1098873	0.19362882	-0.5675153	0.57036414	0.80487644
Ube2i	4737.7851	-0.1098913	0.1564862	-0.7022428	0.48252778	0.74514925
1110004F10F	6103.25501	-0.1099333	0.15961017	-0.6887611	0.49097363	0.75185702
Polr3e	4435.46706	-0.110055	0.16412936	-0.6705379	0.50251496	0.7592526
Hist1h4i	27.9320247	-0.1101178	0.42796752	-0.2573042	0.79694396	0.92088538
Acadsb	2672.97757	-0.1101436	0.1762325	-0.6249904	0.53197736	0.77840121
9030619P08F	1.37854137	-0.1101968	0.2843831	-0.3874941	0.69839046	NA
Slamf6	64.8821632	-0.1102144	0.35280088	-0.3123983	0.75473784	0.90191816
14-Sep	0.90987551	-0.1102732	0.20263615	-0.5441932	0.58630852	NA
Mon2	4200.76876	-0.1102878	0.20917487	-0.5272514	0.598019	0.81984777
Bicd2	2340.006	-0.1103455	0.1544616	-0.7143881	0.47498724	0.7406365
Mir7041	0.87084176	-0.1103474	0.19888371	-0.5548336	0.57900848	NA
C87977	0.87084176	-0.1103474	0.19888371	-0.5548336	0.57900848	NA
Atp5f1	22232.7337	-0.1103619	0.16255182	-0.6789339	0.49717977	0.75614418
Coil	5545.13702	-0.1104217	0.17586128	-0.627891	0.53007534	0.7772206
Spast	4616.58021	-0.1104881	0.2146588	-0.5147149	0.60675226	0.82457436
Col10a1	2.45295544	-0.1105031	0.316108	-0.349574	0.72665846	NA
Ccdc77	3772.92438	-0.1105049	0.16957995	-0.6516387	0.51463425	0.76641122
Bag3	1563.64478	-0.1105185	0.4315299	-0.2561087	0.79786693	0.92147261
4932418E24F	0.92920369	-0.1105794	0.20190866	-0.5476703	0.5839183	NA
Gm19424	0.92920369	-0.1105794	0.20190866	-0.5476703	0.5839183	NA
Tnip3	0.92920369	-0.1105794	0.20190866	-0.5476703	0.5839183	NA
Mir7037	0.92920369	-0.1105794	0.20190866	-0.5476703	0.5839183	NA
Capn7	4301.66403	-0.1105995	0.17743068	-0.6233389	0.53306181	0.77898001
Nme1	12879.6568	-0.1106111	0.21048669	-0.5255018	0.59923438	0.8201599
Mt4	27.598767	-0.1107384	0.41435348	-0.2672558	0.78927224	0.91766475
Grwd1	4623.74055	-0.1107516	0.23849317	-0.4643804	0.64237524	0.84421342
Hars	7337.9994	-0.1107621	0.16963026	-0.652962	0.51378075	0.76592775
Psemb10	726.781018	-0.110822	0.35083704	-0.3158787	0.75209456	0.90175963
Socs6	2052.80385	-0.1108786	0.15804087	-0.7015817	0.48294004	0.74557735
Rad17	4085.67943	-0.1108832	0.15105126	-0.7340764	0.46290217	0.73275933
Zfc3h1	4313.01318	-0.1109473	0.19730252	-0.5623208	0.57389748	0.80652888
Tmem218	529.537646	-0.1110183	0.22554742	-0.492217	0.62256595	0.83247791

Mrpl10	5627.10944	-0.1110933	0.20174887	-0.5506515	0.58187257	0.80994453
Pa2g4	39585.4049	-0.1111138	0.19939207	-0.557263	0.57734774	0.80734073
Camk1g	2.01281019	-0.1111294	0.31629613	-0.3513461	0.72532869	NA
Mir5119	1.30834599	-0.1111695	0.2238237	-0.4966834	0.6194123	NA
Fam178a	6344.02201	-0.1111915	0.24335049	-0.4569192	0.64772911	0.84806214
Reep4	1716.99435	-0.1112043	0.2310998	-0.4811959	0.63037728	0.83693308
Adipor2	13063.1607	-0.111214	0.1916365	-0.5803385	0.56168634	0.79905798
Mir126	1.09694637	-0.11122	0.23893134	-0.4654893	0.64158111	NA
Katna1	4094.87854	-0.1112644	0.16804531	-0.6621097	0.50790089	0.76297979
Llgl1	6639.80105	-0.1112841	0.22689547	-0.4904643	0.62380538	0.83275796
Clec2g	1.85080059	-0.1113683	0.23309662	-0.4777772	0.63280879	NA
Grb10	4604.74829	-0.111394	0.30919263	-0.3602737	0.71864245	0.88550762
Hspa13	2273.6155	-0.1114692	0.17442206	-0.6390773	0.52277265	0.77123968
Etohi1	1386.06835	-0.1115367	0.30188867	-0.3694631	0.71178256	0.88328896
Eif3g	13479.9359	-0.1115675	0.18010545	-0.6194564	0.53561573	0.7803571
Dolpp1	2639.06235	-0.1115774	0.1984353	-0.562286	0.5739212	0.80652888
Prpf4	6961.59302	-0.1116167	0.19250653	-0.5798073	0.56204454	0.79915468
Bet1	1583.48968	-0.1117606	0.20012931	-0.5584421	0.5765425	0.80734073
Tctex1d2	1367.48009	-0.1117751	0.28026418	-0.3988207	0.69002536	0.87290201
Rab37	116.750488	-0.1118045	0.38900908	-0.2874084	0.77379963	0.9098882
Dnmt3aos	0.90271977	-0.1120238	0.2023888	-0.5535081	0.57991556	NA
Msrb1	1801.15352	-0.112047	0.21415358	-0.5232084	0.60082922	0.82140617
D930015E06f	2455.94131	-0.1120886	0.21344931	-0.5251299	0.59949288	0.8202282
Med9	1887.00949	-0.1121419	0.22551245	-0.4972757	0.61899465	0.83090659
Cd2bp2	9097.16347	-0.1122058	0.17060753	-0.6576838	0.51074134	0.76473508
Pccb	2534.24945	-0.1122487	0.202579	-0.5540983	0.57951157	0.80819901
Tfb2m	512.007913	-0.1122557	0.23462198	-0.4784533	0.6323276	0.8380914
Nsmce1	3922.72113	-0.1122662	0.23156976	-0.4848053	0.62781447	0.83543543
Gm14499	6.06437766	-0.1122731	0.29010857	-0.3870037	0.69875347	0.87709381
Polr2m	17059.6301	-0.1123044	0.18169751	-0.6180843	0.53651977	0.78079716
Tac4	0.92204795	-0.1123108	0.2016765	-0.5568858	0.57760548	NA
Fam13b	1796.3803	-0.1123496	0.29067171	-0.3865173	0.69911362	0.87733343
Svil	2202.96651	-0.1124022	0.2411046	-0.4661966	0.64107476	0.84343093
Ap3b1	13179.398	-0.1125151	0.17134132	-0.6566723	0.51139168	0.76501865
Epn1	3206.30592	-0.1125418	0.23140159	-0.4863485	0.62672008	0.83469537
Htr5b	17.609203	-0.112644	0.42993202	-0.2620042	0.79331818	0.91954293
Oas1e	7.22344411	-0.1127312	0.32734295	-0.3443826	0.7305586	0.89091255
Retn	1.33042724	-0.1127581	0.22384929	-0.5037232	0.61445593	NA
Usp32	4362.44864	-0.1127996	0.23684699	-0.4762551	0.63389262	0.83920768
Cenpt	4771.22133	-0.1128799	0.20021029	-0.5638069	0.57288557	0.80618651
Pcx	1913.32884	-0.1128939	0.22545437	-0.5007394	0.61655452	0.83032065

A530064D06	1.79617705	-0.113102	0.24030838	-0.4706537	0.63788806	NA
Gm10069	481.982476	-0.1131601	0.25194887	-0.4491391	0.65333129	0.85120266
Siglec1	16.3061638	-0.1131652	0.42581964	-0.2657585	0.79042518	0.91812832
Gm11127	1.33136046	-0.1131766	0.28336766	-0.3993984	0.68959964	NA
Cd46	3.41396709	-0.113191	0.36496306	-0.3101438	0.75645159	NA
Capza1	2975.21463	-0.1132274	0.25486737	-0.4442601	0.65685453	0.85275541
Fscn2	8.22020561	-0.1132787	0.42045188	-0.2694214	0.78760544	0.91670176
Chtf8	8298.53548	-0.1133651	0.17880929	-0.634	0.5260808	0.77391756
Tsen54	1951.59799	-0.1134137	0.20297488	-0.5587571	0.57632752	0.80734073
Mblac1	120.792908	-0.1134498	0.33274127	-0.3409551	0.73313738	0.8924477
Mllt1	2355.08174	-0.1136311	0.17302955	-0.6567151	0.51136415	0.76501865
Agpat1	4155.22211	-0.1136944	0.2109896	-0.5388624	0.58998184	0.81524858
Ahcyl1	8503.88047	-0.1138001	0.20416486	-0.5573932	0.57725879	0.80734073
1810012K16F	4.57921005	-0.1139023	0.38718503	-0.2941805	0.76862002	NA
Tspan17	591.981612	-0.113938	0.20249359	-0.5626746	0.57365649	0.8065213
Dusp18	274.363719	-0.1139933	0.27478711	-0.4148422	0.67825744	0.86571263
Lrrc15	1162.45749	-0.1140338	0.37447729	-0.3045146	0.76073587	0.90435844
1700009P17F	68.7314867	-0.1140747	0.39933697	-0.2856602	0.7751384	0.91029675
Galr1	2.69893521	-0.1141106	0.25796092	-0.4423561	0.65823153	NA
Pex5l	2.68785896	-0.1141592	0.35686617	-0.3198935	0.7490491	NA
D19Bwg1357	13341.4239	-0.1143974	0.15992659	-0.7153117	0.47441644	0.74043056
Gm5113	342.498865	-0.1144225	0.26254733	-0.4358168	0.66296966	0.85644136
Abca8a	1.16521712	-0.1144953	0.24506267	-0.4672083	0.64035083	NA
Poldip3	13536.4149	-0.1145308	0.15880679	-0.7211956	0.47078918	0.73825174
Zscan18	1018.93252	-0.1145819	0.24321478	-0.4711139	0.63755938	0.84125743
Ran	38486.9321	-0.1146023	0.17481216	-0.6555741	0.51209819	0.76528308
Chrd	263.401976	-0.114619	0.30210654	-0.3793994	0.70439132	0.87942876
Klhl2	3578.33999	-0.1147258	0.19230375	-0.5965864	0.55078352	0.79097822
Pxmp4	641.230228	-0.114737	0.23573509	-0.4867202	0.62645664	0.83466421
Tnfsf4	1.92392935	-0.1147524	0.27661072	-0.4148515	0.67825065	NA
Hist1h2bb	10.320298	-0.1149645	0.42967379	-0.2675622	0.78903636	0.91761175
1700001J03R	2.40450232	-0.1149956	0.32306013	-0.3559571	0.72187266	NA
Ddost	12181.5846	-0.1150813	0.18943324	-0.6075035	0.54351684	0.78603486
Ppip5k1	2202.58989	-0.1151054	0.18420282	-0.624884	0.53204722	0.77842377
Noc3l	6152.70056	-0.1151303	0.17705482	-0.6502521	0.5155294	0.76688328
Aire	605.654337	-0.1151313	0.39362619	-0.2924889	0.76991286	0.90807091
Mettl8	1151.01805	-0.1151991	0.16997755	-0.6777314	0.49794202	0.75642242
Mir3060	6.88200265	-0.1153386	0.40372795	-0.285684	0.77512016	0.91029675
Plekhm1	4147.68167	-0.1154382	0.24203992	-0.4769389	0.63340566	0.8388768
Rce1	1552.35745	-0.1154939	0.18031746	-0.6405033	0.52184546	0.77067604
Pikfyve	5160.09287	-0.1155286	0.18754487	-0.6160051	0.53789113	0.78149754

Cep164	4139.74556	-0.1155361	0.1917119	-0.6026547	0.54673843	0.7879093
Fam49a	659.323227	-0.1155441	0.36011579	-0.3208528	0.74832197	0.90063888
Baat	3.24696663	-0.1156537	0.37952777	-0.3047306	0.76057133	NA
Cbl	2021.58454	-0.1156578	0.35681593	-0.3241387	0.74583305	0.89889559
Pnlnc1	1312.32539	-0.1156674	0.20143778	-0.5742092	0.56582622	0.80174611
Smarcc1	25256.6684	-0.1156677	0.2032947	-0.5689655	0.56937956	0.80418512
Usp37	8722.78589	-0.1157817	0.18304244	-0.6325401	0.52703398	0.7745763
Gapvd1	5140.80041	-0.1158217	0.2207432	-0.5246899	0.59979879	0.82035805
Stap2	377.475004	-0.1158294	0.33322767	-0.3475982	0.72814193	0.8899894
Ccdc124	3609.93191	-0.1158401	0.21318224	-0.5433855	0.58686438	0.81289106
Tmub2	1390.26246	-0.1158818	0.24929166	-0.4648441	0.64204311	0.84385084
Pms2	2490.05491	-0.115897	0.15315632	-0.7567234	0.44921558	0.7220415
Eif2b3	5316.41084	-0.1159591	0.20859419	-0.5559077	0.57827395	0.80771125
Armc12	5.84952868	-0.1159917	0.41676659	-0.2783134	0.78077179	NA
Camk2g	1510.24832	-0.1160013	0.19178672	-0.6048452	0.54528184	0.78661205
Ssfa2	2763.27944	-0.1160035	0.2086165	-0.5560611	0.5781691	0.80771125
Ginm1	1557.61691	-0.1160661	0.18768652	-0.6184041	0.53630897	0.78076585
Kndc1	124.397807	-0.1160941	0.41867029	-0.2772925	0.7815555	0.91337854
Sipa1l1	5597.11982	-0.1161232	0.20921193	-0.5550505	0.57886012	0.80806586
Vezf1	2439.55472	-0.1161532	0.22401537	-0.5185053	0.60410576	0.82299156
Ppp1ca	21598.3687	-0.1161542	0.17256574	-0.6731011	0.500883	0.75813841
Zfand2a	1210.06359	-0.1162357	0.2355224	-0.4935231	0.62164305	0.83196874
Acss2	1889.56845	-0.1164039	0.22321074	-0.5214977	0.60202012	0.82195039
Tdrkh	120.672352	-0.116454	0.37316333	-0.3120724	0.75498548	0.90191816
Hexim2	455.222293	-0.1165052	0.28187556	-0.4133212	0.67937126	0.86613179
Lonp2	4185.83309	-0.1165161	0.20556905	-0.5667978	0.57085155	0.80505969
Pmf1	4040.45993	-0.1165204	0.21059473	-0.553292	0.58006346	0.80843941
Ccdc174	1411.72946	-0.1165291	0.17281402	-0.6743033	0.5001185	0.7577302
Gstz1	1760.69984	-0.1165365	0.23345627	-0.4991793	0.61765307	0.83032065
Mov10	10570.5713	-0.1165613	0.17332928	-0.6724845	0.5012753	0.75822704
Ppp2r5d	8654.70411	-0.1166294	0.19474353	-0.5988871	0.54924816	0.78969658
Morf4l2	28550.4081	-0.1167429	0.16613669	-0.7026917	0.48224792	0.74506649
Foxo6	325.166916	-0.1168426	0.26516157	-0.4406469	0.65946866	0.854457
Hif1an	4085.53087	-0.1169595	0.18983811	-0.6161013	0.53782764	0.78149754
Gm5126	6.58525803	-0.1169671	0.39637108	-0.2950949	0.7679214	0.90649963
Tnfaip3	68.3011387	-0.1170801	0.4027707	-0.2906866	0.771291	0.90875167
Mir7030	4.67538378	-0.117139	0.39651711	-0.2954197	0.7676733	NA
Gm6277	4.93327777	-0.1172484	0.35834902	-0.3271906	0.74352373	NA
Lrrc75b	31.2918586	-0.1172611	0.42189811	-0.277937	0.78106069	0.91325374
Hnrnpd	24442.7881	-0.1173533	0.18935517	-0.6197525	0.53542074	0.7803571
Atp1a1	31813.3312	-0.1173546	0.14615418	-0.8029505	0.42200337	0.70127884

Chchd2	13346.8872	-0.1175188	0.20240705	-0.5806063	0.5615058	0.79905798
C87436	688.070419	-0.1175269	0.17922288	-0.6557582	0.51197971	0.76528308
Ppp1r1b	119.059321	-0.1175583	0.34278553	-0.3429499	0.73163616	0.89154993
Whsc1l1	2405.40789	-0.1175917	0.23076395	-0.5095757	0.61034877	0.82628285
Ric3	1115.3661	-0.1176912	0.21295377	-0.5526606	0.58049583	0.80865954
Gm10825	2.39195249	-0.1177559	0.32308397	-0.3644748	0.71550353	NA
Ppifos	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
4930482G09I	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
Gm21276	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
Cyp4a29	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
Camp	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
Gm20356	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
Olfr1504	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
Tnni3k	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
1700021N21I	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
Rp1	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
D830046C22I	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
4930404I05R	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
4921530L21F	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
Olfr166	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
Angpt4	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
Slc22a28	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
Redrum	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
Slc34a1	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
4930515B02F	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
Pglyrp4	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
Tmem132cos	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
Mir708	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
Lect2	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
Gm1979	0.30937454	-0.1178898	0.16749769	-0.7038291	0.48153918	NA
Uba52	39648.7513	-0.1178981	0.23598489	-0.4996003	0.61735658	0.83032065
Pus10	4844.92306	-0.1179146	0.21673162	-0.5440583	0.58640134	0.81268401
Surf6	3854.20971	-0.1179784	0.21109545	-0.5588864	0.57623924	0.80734073
Nhlrc4	9.83336176	-0.1179826	0.43197947	-0.2731209	0.78476027	0.91523977
Gpr161	207.311882	-0.1180919	0.38456367	-0.3070802	0.75878235	0.90331943
Ddx42	10863.2012	-0.1182405	0.20861431	-0.5667902	0.57085674	0.80505969
Mars2	1349.99775	-0.118438	0.21010686	-0.5637037	0.57295581	0.80618651
Amt	8073.91942	-0.1184549	0.18738749	-0.6321388	0.5272962	0.77475275
Arid5b	6623.48258	-0.1184623	0.34132142	-0.3470697	0.72853895	0.8900505
Mir7053	1.11902763	-0.118523	0.24355239	-0.4866428	0.62651147	NA
Tef	2975.27634	-0.1185503	0.18174462	-0.6522908	0.51421359	0.76610648

Cnot4	3035.09193	-0.1185509	0.19909416	-0.5954515	0.55154174	0.79123853
Bcl11a	9.27338117	-0.1185972	0.43024346	-0.2756514	0.78281582	0.91399508
Mex3c	4310.20596	-0.1186085	0.20519883	-0.5780176	0.56325223	0.79992105
Snhg1	11317.5017	-0.118757	0.21853883	-0.5434137	0.58684502	0.81289106
Kcnp2	224.630863	-0.1187927	0.34095617	-0.3484104	0.727532	0.88986097
Gm13315	1.98934467	-0.1188803	0.33759964	-0.352134	0.72473774	NA
0610030E20F	1695.35923	-0.1189006	0.22921885	-0.5187208	0.60395545	0.82288924
Tax1bp1	11876.8261	-0.1189093	0.15575681	-0.763429	0.44520761	0.71864475
Slfn8	557.706375	-0.1189607	0.38024826	-0.3128502	0.7543945	0.90191816
Shc3	8.36881043	-0.1189697	0.42112039	-0.2825075	0.77755439	0.91189655
Csnk1d	7295.2032	-0.1189866	0.22523978	-0.5282664	0.59731441	0.81955501
Mir1949	62.0715712	-0.1189915	0.36125259	-0.3293858	0.74186411	0.89665148
Zbtb44	11430.5935	-0.1190208	0.20846637	-0.5709351	0.56804362	0.80306738
Gbbp1	17922.5308	-0.1190983	0.14946173	-0.7968478	0.42553944	0.70377154
Fam63b	906.940192	-0.1192143	0.29201046	-0.4082535	0.68308757	0.86824483
Rev1	5929.31258	-0.1192494	0.1916587	-0.6221967	0.53381253	0.77957624
Cblc	251.216955	-0.1193024	0.28331595	-0.421093	0.67368719	0.86321737
Gm14461	0.3314558	-0.1193182	0.16845444	-0.7083115	0.47875185	NA
Nmrk2	0.3314558	-0.1193182	0.16845444	-0.7083115	0.47875185	NA
Gm10754	0.3314558	-0.1193182	0.16845444	-0.7083115	0.47875185	NA
Gm8096	0.3314558	-0.1193182	0.16845444	-0.7083115	0.47875185	NA
Gpx5	0.3314558	-0.1193182	0.16845444	-0.7083115	0.47875185	NA
Klhl38	0.3314558	-0.1193182	0.16845444	-0.7083115	0.47875185	NA
Gm6904	0.3314558	-0.1193182	0.16845444	-0.7083115	0.47875185	NA
Plac8l1	0.3314558	-0.1193182	0.16845444	-0.7083115	0.47875185	NA
Mir3473c	0.3314558	-0.1193182	0.16845444	-0.7083115	0.47875185	NA
Mir106a	0.3314558	-0.1193182	0.16845444	-0.7083115	0.47875185	NA
Gm5150	0.3314558	-0.1193182	0.16845444	-0.7083115	0.47875185	NA
Ccr10	0.3314558	-0.1193182	0.16845444	-0.7083115	0.47875185	NA
Gp9	0.3314558	-0.1193182	0.16845444	-0.7083115	0.47875185	NA
Tmprss11bnl	0.3314558	-0.1193182	0.16845444	-0.7083115	0.47875185	NA
2610100L16F	0.3314558	-0.1193182	0.16845444	-0.7083115	0.47875185	NA
4930402F06F	0.3314558	-0.1193182	0.16845444	-0.7083115	0.47875185	NA
1700047A11F	0.3314558	-0.1193182	0.16845444	-0.7083115	0.47875185	NA
Recql4	2670.26091	-0.1193243	0.2221945	-0.5370262	0.59124949	0.81611679
Alkbh7	901.403341	-0.1193642	0.2324927	-0.5134105	0.60766417	0.82522557
Stxbp4	710.817914	-0.1194721	0.21980493	-0.5435371	0.58676007	0.81289106
Tsen2	1870.5436	-0.11949	0.18172462	-0.6575336	0.51083785	0.76480595
Mir6941	1.00574979	-0.1195379	0.26228288	-0.4557596	0.64856285	NA
Gimap5	1.00574979	-0.1195379	0.26228288	-0.4557596	0.64856285	NA
Tiprl	3821.71221	-0.1195847	0.16689328	-0.7165338	0.47366182	0.73992114

Siglece	4.10226952	-0.1195965	0.36450419	-0.3281074	0.74283049	NA
Bbs5	845.907781	-0.1196445	0.21758997	-0.5498624	0.58241379	0.81000763
Hif1a	11204.3134	-0.1196615	0.18778776	-0.6372166	0.52398379	0.77176852
Usp5	11525.756	-0.1196918	0.19090193	-0.6269807	0.53067192	0.77760181
1810032O08I	1837.73516	-0.1197295	0.21780091	-0.5497201	0.58251139	0.81000763
Mir684-2	1.30250085	-0.1200561	0.30176832	-0.3978418	0.69074679	NA
Hars2	1602.12541	-0.120077	0.1605894	-0.7477269	0.4546249	0.72518943
Dhtkd1	2131.18093	-0.1200853	0.2450588	-0.4900266	0.6241151	0.8330284
Grin1os	1.14826463	-0.1201026	0.24471379	-0.490788	0.62357639	NA
Xpo5	10575.5452	-0.1201088	0.22805409	-0.5266682	0.59842403	0.81984777
Eif5a	58108.0319	-0.1201596	0.17106527	-0.7024197	0.48241749	0.74506649
2610044O15I	770.145626	-0.1202106	0.18489694	-0.6501494	0.5155957	0.76690853
Slc30a9	4361.15069	-0.1202143	0.21258848	-0.5654787	0.57174821	0.80538015
Csrnp3	271.207359	-0.1202276	0.38480215	-0.3124399	0.75470622	0.90191816
Patz1	6941.06432	-0.1202454	0.21266444	-0.5654231	0.571786	0.80538015
Pop1	8771.31953	-0.1202959	0.16032155	-0.7503417	0.45304893	0.72431158
Sar1a	7747.74369	-0.1203225	0.14300895	-0.8413633	0.40014442	0.68523795
Klk1b3	1.40152472	-0.1203527	0.19318089	-0.6230053	0.53328106	NA
Snx22	159.361654	-0.1203856	0.30633318	-0.3929891	0.69432755	0.87496374
Fbrsl1	3035.98389	-0.1204326	0.19880579	-0.6057801	0.54466078	0.78637265
A930006I01R	0.35078398	-0.1204473	0.16920358	-0.7118485	0.47655858	NA
BC035044	0.35078398	-0.1204473	0.16920358	-0.7118485	0.47655858	NA
Ugt2b34	0.35078398	-0.1204473	0.16920358	-0.7118485	0.47655858	NA
Amd1	0.35078398	-0.1204473	0.16920358	-0.7118485	0.47655858	NA
Ptgdr	0.35078398	-0.1204473	0.16920358	-0.7118485	0.47655858	NA
Pabpc2	0.35078398	-0.1204473	0.16920358	-0.7118485	0.47655858	NA
Gm16548	0.35078398	-0.1204473	0.16920358	-0.7118485	0.47655858	NA
Klk1b4	0.35078398	-0.1204473	0.16920358	-0.7118485	0.47655858	NA
Prss30	0.35078398	-0.1204473	0.16920358	-0.7118485	0.47655858	NA
Col11a1	371.54018	-0.1205678	0.41905124	-0.287716	0.77356411	0.9098882
Rtbdn	6.23603108	-0.1206528	0.35283028	-0.3419571	0.73238318	0.89180885
Chmp5	7143.20946	-0.1206544	0.18374962	-0.6566241	0.51142267	0.76501865
Ctxn3	0.35353705	-0.1206741	0.16935372	-0.7125566	0.47612015	NA
Smgc	0.35353705	-0.1206741	0.16935372	-0.7125566	0.47612015	NA
4931402G19I	0.35353705	-0.1206741	0.16935372	-0.7125566	0.47612015	NA
Tmem210	0.35353705	-0.1206741	0.16935372	-0.7125566	0.47612015	NA
Glipr1l1	0.35353705	-0.1206741	0.16935372	-0.7125566	0.47612015	NA
Mir6953	0.35353705	-0.1206741	0.16935372	-0.7125566	0.47612015	NA
Rag2	0.35353705	-0.1206741	0.16935372	-0.7125566	0.47612015	NA
1700047G03I	0.35353705	-0.1206741	0.16935372	-0.7125566	0.47612015	NA
Ptprc	0.35353705	-0.1206741	0.16935372	-0.7125566	0.47612015	NA

1700041C23f	0.35353705	-0.1206741	0.16935372	-0.7125566	0.47612015	NA
A430107P09f	0.35353705	-0.1206741	0.16935372	-0.7125566	0.47612015	NA
Cml3	0.35353705	-0.1206741	0.16935372	-0.7125566	0.47612015	NA
Lgi1	0.35353705	-0.1206741	0.16935372	-0.7125566	0.47612015	NA
Scarna2	0.35353705	-0.1206741	0.16935372	-0.7125566	0.47612015	NA
Psg21	0.35353705	-0.1206741	0.16935372	-0.7125566	0.47612015	NA
Mir7074	0.35353705	-0.1206741	0.16935372	-0.7125566	0.47612015	NA
Ntsr2	0.35353705	-0.1206741	0.16935372	-0.7125566	0.47612015	NA
Skint2	0.35353705	-0.1206741	0.16935372	-0.7125566	0.47612015	NA
Mocs2	1478.31307	-0.1206757	0.18092939	-0.6669766	0.50478711	0.76065469
Txndc2	8.63470967	-0.1206908	0.43063186	-0.2802645	0.77927456	0.91260627
Pdgfa	3822.90584	-0.120706	0.22809607	-0.5291895	0.59667401	0.81955304
Bop1	7739.56677	-0.1208187	0.19129915	-0.6315695	0.52766825	0.77506906
Slc25a48	69.7704597	-0.1208289	0.39871176	-0.3030483	0.76185303	0.9048709
Gm12409	1.36881827	-0.1208684	0.22231931	-0.5436702	0.58666844	NA
Mtap	7760.10647	-0.1210424	0.18311105	-0.6610329	0.50859121	0.76357423
Lypd4	1.62370884	-0.121134	0.32168896	-0.3765563	0.70650335	NA
Myg1	2201.89015	-0.1212356	0.23370324	-0.5187589	0.60392891	0.82288924
Dpp9	2261.41005	-0.121262	0.23909257	-0.5071758	0.61203148	0.82733845
Dcaf13	7083.83752	-0.1213363	0.17177101	-0.7063838	0.4799495	0.74398871
Gmppa	1959.27495	-0.1213556	0.17933796	-0.6766868	0.49860469	0.75683128
Slc2a1	15890.5523	-0.1213677	0.27428998	-0.4424795	0.65814227	0.85360887
Zbtb8b	551.123195	-0.1213891	0.23987717	-0.5060471	0.6128236	0.8279774
Tube1	1497.00974	-0.1214452	0.22637877	-0.5364693	0.59163428	0.81634852
Psmc2	14447.984	-0.1214821	0.18421858	-0.6594453	0.50960989	0.76413825
Pik3r6	41.909584	-0.1215662	0.37915508	-0.3206239	0.74849541	0.900659
Ndufc2	5534.9228	-0.1215726	0.24625129	-0.4936933	0.62152282	0.83196874
lfrd1	6255.62809	-0.1216416	0.18411819	-0.6606714	0.50882308	0.76362746
Olah	2.98962672	-0.121717	0.37746427	-0.3224596	0.74710451	NA
Eid2	1627.16814	-0.1217315	0.20988131	-0.5800017	0.56191345	0.79905798
Mir331	0.37286524	-0.1217431	0.17005888	-0.7158877	0.47406068	NA
Gp49a	0.37286524	-0.1217431	0.17005888	-0.7158877	0.47406068	NA
Nox1	0.37286524	-0.1217431	0.17005888	-0.7158877	0.47406068	NA
Cyp2j8	0.37286524	-0.1217431	0.17005888	-0.7158877	0.47406068	NA
Tnfsf10	0.37286524	-0.1217431	0.17005888	-0.7158877	0.47406068	NA
Mir6910	0.37286524	-0.1217431	0.17005888	-0.7158877	0.47406068	NA
Mir6979	0.37286524	-0.1217431	0.17005888	-0.7158877	0.47406068	NA
Tmprss9	6.62469752	-0.121761	0.41540389	-0.2931147	0.76943449	0.90764437
BC030336	1882.2737	-0.1219597	0.21496175	-0.5673553	0.57047279	0.80487644
Galk2	2741.09257	-0.1219909	0.16308673	-0.7480125	0.45445262	0.72518943
Ankrd66	1.44688578	-0.1220145	0.228727	-0.5334505	0.59372177	NA

Mir19b-2	1.6387367	-0.1220291	0.26233641	-0.4651625	0.64181506	NA
Srm	10792.1713	-0.1220869	0.20975858	-0.5820351	0.56054306	0.79840677
2010308F09F	3.10389597	-0.1222027	0.3538263	-0.3453749	0.72981257	NA
Trim17	14.8270066	-0.1222203	0.43134981	-0.2833437	0.77691338	0.91141973
Zfp407	2179.8658	-0.1222458	0.2175712	-0.5618658	0.57420748	0.80656675
Psm1	25625.9706	-0.1223601	0.15352271	-0.7970163	0.42544158	0.70377154
Clec4g	0.93995708	-0.122396	0.20432183	-0.5990352	0.54914941	NA
Timm23	2376.22893	-0.1224087	0.21725842	-0.5634246	0.57314577	0.80618651
Klc1	2764.98538	-0.1224224	0.16339852	-0.7492256	0.45372123	0.72463991
Brd4	13011.8843	-0.1225191	0.24681318	-0.4964042	0.61960924	0.83116939
Ccdc158	75.3701517	-0.1225288	0.35332666	-0.3467863	0.72875187	0.89017519
Sf3a1	12076.8816	-0.1225684	0.23950536	-0.5117565	0.60882147	0.82562526
Manea	1731.50606	-0.1226055	0.20878522	-0.5872326	0.55704749	0.7958333
Ppan	8910.14959	-0.1226168	0.21275746	-0.5763221	0.56439748	0.80088924
Ociad1	9908.06386	-0.1226451	0.16869801	-0.7270096	0.46722005	0.73569653
Snrpf	4113.27073	-0.1227484	0.17568517	-0.6986838	0.48474964	0.747183
Mir125a	0.39219342	-0.1227666	0.1707303	-0.7190675	0.47209933	NA
Gpr139	0.39219342	-0.1227666	0.1707303	-0.7190675	0.47209933	NA
Mir376b	0.39219342	-0.1227666	0.1707303	-0.7190675	0.47209933	NA
Jakmip2	0.39219342	-0.1227666	0.1707303	-0.7190675	0.47209933	NA
Cytl1	0.39219342	-0.1227666	0.1707303	-0.7190675	0.47209933	NA
Gm20755	0.39219342	-0.1227666	0.1707303	-0.7190675	0.47209933	NA
Gm4907	0.39219342	-0.1227666	0.1707303	-0.7190675	0.47209933	NA
Hpk2	684.436941	-0.1227911	0.27209202	-0.4512852	0.65178401	0.84981368
Cryz	4574.39451	-0.1228705	0.2560757	-0.4798211	0.63135462	0.83751629
Cep170	3334.68191	-0.1229262	0.24458814	-0.5025845	0.61525645	0.82953469
Hyou1	16172.7148	-0.1229428	0.16909155	-0.7270786	0.46717783	0.73569653
B4galt6	11339.6802	-0.122983	0.18762051	-0.6554882	0.51215346	0.76528308
Mir703	1504.91512	-0.1230398	0.23263219	-0.5289027	0.59687297	0.81955304
Armc6	1413.59618	-0.123079	0.25073793	-0.4908669	0.62352057	0.83265488
6030407O03I	12.0676785	-0.1231369	0.43085955	-0.2857935	0.77503626	0.91029675
Eid3	28.0038799	-0.1232951	0.4062599	-0.3034883	0.76151776	0.90466935
Tcf20	10287.4439	-0.12334	0.20288343	-0.6079351	0.5432305	0.78596222
Ahi1	786.611045	-0.1233674	0.27936768	-0.4415951	0.6587822	0.85401151
Klf9	9441.32967	-0.1233867	0.19820363	-0.6225251	0.53359665	0.77945629
Pyy	2.63176066	-0.123398	0.36217681	-0.340712	0.73332044	NA
Cep162	2093.24549	-0.1234804	0.18211184	-0.6780473	0.49774173	0.75633981
Ninl	5483.18708	-0.1234909	0.22442903	-0.5502446	0.58215162	0.81000763
Usp3	1809.39438	-0.1235621	0.20797088	-0.5941317	0.55242402	0.79183545
Snx21	278.936293	-0.1236363	0.30953974	-0.39942	0.6895838	0.87262736
Lypd3	2.88908443	-0.1236749	0.32537641	-0.380098	0.7038727	NA

Fancf	533.526536	-0.1236816	0.18597456	-0.6650458	0.5060212	0.76151896
Armc8	5500.45543	-0.1237289	0.15200656	-0.8139709	0.4156616	0.69777304
Stk4	7610.44565	-0.1237519	0.18155048	-0.6816392	0.49546715	0.75533199
Pde4d	808.747778	-0.1237688	0.27266717	-0.4539189	0.64988717	0.84900546
Tmem97	4358.85105	-0.1238024	0.18379947	-0.673573	0.50058284	0.75785125
Gm10512	0.98174391	-0.1239109	0.20892347	-0.5930921	0.55311954	NA
Ptgdr2	0.98174391	-0.1239109	0.20892347	-0.5930921	0.55311954	NA
2310002F09F	0.98174391	-0.1239109	0.20892347	-0.5930921	0.55311954	NA
Plet1os	10.1159838	-0.123971	0.39881866	-0.3108455	0.75591804	0.90213384
Gpn2	1748.73556	-0.123988	0.20809678	-0.5958188	0.55129631	0.79108781
A430005L14F	3063.26498	-0.1240354	0.19098813	-0.6494402	0.5160539	0.76714981
Tex15	1452.08743	-0.1240584	0.24056157	-0.5157031	0.60606178	0.82418428
Scaf11	13239.9392	-0.1241643	0.19796801	-0.6271937	0.53053229	0.77760181
Acap3	708.348704	-0.124191	0.26152367	-0.4748748	0.63487622	0.83934241
Nvl	10847.6266	-0.1242944	0.16154993	-0.7693871	0.44166352	0.71556426
Derl2	3075.24317	-0.1243184	0.19363327	-0.6420304	0.52085347	0.76986886
Fbxo34	1906.63261	-0.124332	0.17283377	-0.719373	0.4719111	0.73859646
Thumpd2	917.911083	-0.1244135	0.18485407	-0.6730363	0.50092419	0.75813841
PsmA6	14707.417	-0.1244546	0.17336967	-0.717857	0.47284548	0.73930088
Zfp473	2036.72601	-0.1245238	0.2199972	-0.5660244	0.57137719	0.80538015
Clps	30.6039909	-0.1245442	0.41368685	-0.301059	0.7633695	0.90530857
Cetn3	9015.81599	-0.1246222	0.21829867	-0.5708792	0.5680815	0.80306738
Tmem234	2191.30994	-0.1246249	0.18022304	-0.6915035	0.4892492	0.75032686
Sdccag8	279.808469	-0.124637	0.22349022	-0.5576846	0.57705979	0.80734073
Aprt	7753.91076	-0.1246377	0.22747472	-0.5479188	0.58374764	0.81110253
Ppat	15299.7486	-0.1246948	0.17192694	-0.7252779	0.46828156	0.73621136
Ddi2	1781.36298	-0.1247867	0.27448478	-0.4546217	0.64938145	0.84883003
lqsec3	4.74507835	-0.1249267	0.37390631	-0.3341123	0.73829481	NA
Leng9	59.2602788	-0.1249543	0.33468162	-0.3733528	0.70888592	0.8814172
Pet2	68.0417792	-0.1249786	0.36481893	-0.3425769	0.73191675	0.89172966
Sdr9c7	59.3044545	-0.1250058	0.3730073	-0.3351296	0.73752733	0.89415198
Gm17762	92.7949411	-0.1250479	0.29373703	-0.4257137	0.67031645	0.86106816
Sap30bp	4423.58068	-0.1250492	0.17563175	-0.7119964	0.47646703	0.74161007
Tub	248.255225	-0.1251114	0.25926116	-0.4825692	0.62940166	0.83642328
Npc2	23272.3505	-0.1251205	0.1884152	-0.6640681	0.50664671	0.76203338
Tcof1	17185.5517	-0.1252031	0.23199697	-0.5396756	0.58942079	0.81476291
Krt40	1.21175532	-0.1252897	0.24365978	-0.5141995	0.60711254	NA
Polg2	634.326335	-0.1253079	0.21152223	-0.5924103	0.55357588	0.79262117
Fbxo6	4519.88221	-0.1253197	0.25763422	-0.486425	0.62666585	0.83469537
Cfl1	55487.0552	-0.1253751	0.18839523	-0.66549	0.50573714	0.76134737
B9d2	384.957494	-0.1253773	0.25029706	-0.5009139	0.61643174	0.83032065

1110004E09F	2527.50275	-0.1254159	0.18771963	-0.6681024	0.50406825	0.76025581
Gtf2ird1	5136.77502	-0.1256123	0.1826034	-0.6878967	0.49151783	0.75186608
Adi1	5294.48395	-0.1256748	0.23169888	-0.5424059	0.58753891	0.81340776
Epb4.1l2	10987.0577	-0.1256906	0.1918349	-0.6552021	0.51233761	0.76528308
Il17rd	3117.92316	-0.1256985	0.27148323	-0.4630064	0.64335976	0.84490346
Zfp692	2156.39725	-0.1257393	0.20396862	-0.6164638	0.53758848	0.78132829
Ifitm3	10113.28	-0.1257872	0.24409088	-0.5153293	0.60632295	0.82427906
Aagab	3385.74206	-0.1259493	0.15836572	-0.7953067	0.4264351	0.70402942
Mief2	1440.33374	-0.1260088	0.21404512	-0.5887022	0.55606106	0.79522766
Tgfbrap1	876.14224	-0.1260273	0.1877222	-0.6713501	0.50199754	0.75895097
Mtcl1	4873.80594	-0.1261208	0.24272287	-0.5196084	0.60333654	0.82274997
Timm17a	5857.7174	-0.1263071	0.17911793	-0.7051618	0.48070956	0.74425276
2810047C21F	35.4466325	-0.1264367	0.41385441	-0.30551	0.75997776	0.90409661
Fam122b	3669.13188	-0.1264708	0.23764099	-0.5321929	0.59459242	0.81784068
Zfp746	1401.3125	-0.1265836	0.17592571	-0.7195285	0.47181534	0.73859646
Usp22	9273.83893	-0.1266073	0.18545738	-0.682676	0.49481161	0.75483769
Tsfm	2722.87058	-0.1266131	0.17379753	-0.7285094	0.46630181	0.73499487
Omt2a	3.71787998	-0.1266203	0.38826235	-0.3261203	0.74433331	NA
Wasf2	7046.24218	-0.1266386	0.25775659	-0.4913107	0.62320674	0.83265488
Ndufa9	9462.36365	-0.1266485	0.19582397	-0.6467465	0.51779605	0.76807775
Usp24	9970.04025	-0.1267791	0.2548294	-0.4975056	0.61883256	0.83090659
Tro	1292.72439	-0.1268322	0.26288848	-0.4824564	0.62948174	0.83645821
Tmem41b	3109.95779	-0.1268544	0.14935749	-0.849334	0.39569548	0.68269664
Mtmr4	4392.70594	-0.1268885	0.24495473	-0.5180078	0.60445285	0.82324805
Bai2	489.680143	-0.1269215	0.3929644	-0.3229847	0.74670687	0.89966983
5730408K05F	470.601604	-0.1270265	0.24661676	-0.5150765	0.60649958	0.82430301
Prdm4	3745.84066	-0.1270326	0.20004225	-0.6350291	0.52540946	0.77314936
Arsk	442.414571	-0.1270965	0.29015585	-0.4380283	0.6613658	0.85550654
Myh6	64.5165383	-0.1271477	0.32374356	-0.3927422	0.69450993	0.87496374
Cdk17	2605.86102	-0.1271741	0.22972951	-0.5535819	0.57986505	0.80831465
Hax1	4336.77644	-0.127177	0.19226972	-0.6614508	0.50832325	0.76331932
Rpn2	20211.6985	-0.1272207	0.15776918	-0.8063722	0.42002826	0.70035672
Ddx46	15024.2795	-0.1272947	0.18916376	-0.6729336	0.50098953	0.7581635
Thsd7a	21.6619344	-0.1273057	0.4320959	-0.2946236	0.76828141	0.90676565
Dlc1	9117.4079	-0.1273365	0.24330544	-0.5233608	0.6007232	0.82133343
Gm12992	252.314103	-0.1273598	0.22360867	-0.5695656	0.56897235	0.80393322
Abhd17c	4303.52258	-0.1273715	0.1583564	-0.8043342	0.42120398	0.70099991
Mcat	1489.91111	-0.1274125	0.1934489	-0.6586366	0.51012916	0.76433741
Pura	900.166568	-0.127522	0.24212385	-0.5266808	0.59841527	0.81984777
Tbx1	16.3281629	-0.1275392	0.43225804	-0.2950535	0.76795303	0.90649963
Srp19	4946.19615	-0.1276704	0.17375962	-0.7347529	0.46249	0.73262524

Lad1	732.563991	-0.1276718	0.378729	-0.337106	0.73603696	0.89366887
Gjc2	1.77564304	-0.1276968	0.29879349	-0.4273749	0.66910629	NA
Usp47	5869.83254	-0.1277199	0.19092923	-0.6689386	0.50353464	0.75979694
Scyl1	2693.86131	-0.1278378	0.18342724	-0.69694	0.48584035	0.74775368
Ifnar1	2895.78345	-0.1278572	0.19099168	-0.6694387	0.50321565	0.75952071
Ctdsp2	8028.5384	-0.1278649	0.19888645	-0.6429041	0.52028633	0.76986886
Hira	5605.93163	-0.1278884	0.20440435	-0.6256638	0.5315355	0.7782358
Atic	14438.8218	-0.1279077	0.19848082	-0.6444337	0.51929424	0.76934346
Mir6947	0.46406182	-0.1279131	0.17405146	-0.7349156	0.46239087	NA
Bmp10	0.46406182	-0.1279131	0.17405146	-0.7349156	0.46239087	NA
AW046200	0.46406182	-0.1279131	0.17405146	-0.7349156	0.46239087	NA
Atoh7	0.46406182	-0.1279131	0.17405146	-0.7349156	0.46239087	NA
Igfbp1	0.46406182	-0.1279131	0.17405146	-0.7349156	0.46239087	NA
Fam46d	0.46406182	-0.1279131	0.17405146	-0.7349156	0.46239087	NA
1700006F04F	0.46406182	-0.1279131	0.17405146	-0.7349156	0.46239087	NA
Mir6975	0.46406182	-0.1279131	0.17405146	-0.7349156	0.46239087	NA
Mir7019	0.46406182	-0.1279131	0.17405146	-0.7349156	0.46239087	NA
Lrrtm3	0.46406182	-0.1279131	0.17405146	-0.7349156	0.46239087	NA
Esp36	0.46406182	-0.1279131	0.17405146	-0.7349156	0.46239087	NA
Gria1	0.46406182	-0.1279131	0.17405146	-0.7349156	0.46239087	NA
Nudt9	2484.29338	-0.12792	0.18975837	-0.6741205	0.50023473	0.75774583
Atg12	4905.85764	-0.1279496	0.15862891	-0.8065972	0.41989857	0.70031666
Tamm41	2420.0092	-0.128019	0.23121592	-0.5536772	0.57979979	0.80831465
Stx8	1662.84363	-0.1281473	0.25850518	-0.4957245	0.62008882	0.83138912
Dbt	5589.37426	-0.1281637	0.14667281	-0.8738069	0.38222342	0.67117846
Dr1	5688.92535	-0.1282492	0.20876846	-0.614313	0.53900851	0.78286367
Ep400	9046.18046	-0.1282808	0.27245286	-0.4708366	0.63775743	0.84137221
Ropn1	3.83769953	-0.1282886	0.37778479	-0.3395812	0.73417194	NA
Usp8	7712.25276	-0.128426	0.17429916	-0.7368137	0.46123566	0.73153246
Atf6b	2679.88638	-0.1284841	0.1987562	-0.646441	0.51799382	0.76808698
Il11	8.38257501	-0.1285109	0.37800881	-0.3399681	0.73388056	0.892514
Reps2	202.114401	-0.1285116	0.40982597	-0.313576	0.7538431	0.90191816
Wdr45b	7328.51788	-0.1285688	0.19692022	-0.6528981	0.51382195	0.76592775
Atpif1	12674.6886	-0.1285943	0.21993762	-0.5846854	0.55875927	0.79688788
Tmtc3	4017.73817	-0.1286234	0.27384146	-0.4697002	0.63856921	0.84187189
Cd33	0.99666942	-0.128653	0.21001263	-0.6125966	0.54014313	NA
Tctn3	652.059391	-0.1286644	0.23065212	-0.5578286	0.57696141	0.80734073
B4galt1	3368.03094	-0.1286828	0.16772412	-0.7672291	0.44294531	0.71655493
4921504A21f	3.39249986	-0.1287022	0.37607714	-0.342223	0.7321831	NA
Rab2a	6429.06135	-0.1287046	0.1842714	-0.6984512	0.48489507	0.74726025
Gen1	1433.90119	-0.1287108	0.2405239	-0.5351267	0.59256225	0.81685504

Tbx22	0.48614307	-0.1287436	0.17458104	-0.7374429	0.46085305	NA
Mir140	0.48614307	-0.1287436	0.17458104	-0.7374429	0.46085305	NA
Gm4981	0.48614307	-0.1287436	0.17458104	-0.7374429	0.46085305	NA
Mir7011	0.48614307	-0.1287436	0.17458104	-0.7374429	0.46085305	NA
Gja5	3.96955077	-0.1287855	0.3484053	-0.3696428	0.71164866	NA
Retsat	1562.01161	-0.1288676	0.23509513	-0.5481509	0.58358828	0.81095356
Al854703	170.769431	-0.1288799	0.28823816	-0.4471298	0.65478136	0.85212302
Odc1	22593.7689	-0.1289095	0.26257067	-0.4909518	0.62346053	0.83265488
Cyp19a1	1.02040027	-0.1289443	0.21113272	-0.6107262	0.54138083	NA
Gins4	5853.97957	-0.1289715	0.23169357	-0.556647	0.57776865	0.8075571
Fcrla	2.69012259	-0.1289834	0.36641922	-0.3520104	0.72483043	NA
Adamts8	174.245196	-0.1289907	0.25831587	-0.4993527	0.61753092	0.83032065
Prps2	5550.83634	-0.1289958	0.29400778	-0.4387495	0.66084302	0.85535191
Rnf31	2591.58949	-0.1290611	0.19362635	-0.6665475	0.50506123	0.7607897
Gabrr1	88.9195171	-0.1290658	0.35971652	-0.3587986	0.71974578	0.88592422
C330013E15F	23.8313888	-0.1290964	0.42134497	-0.3063912	0.75930682	0.90371807
Kcnk16	5.58227635	-0.1292121	0.3868337	-0.334025	0.73836069	NA
Dennd5a	5654.97905	-0.1292367	0.20891625	-0.6186055	0.53617627	0.78076585
Akap10	2678.59417	-0.1292525	0.24497859	-0.5276072	0.59777198	0.81972425
Pgs1	3094.92217	-0.1293417	0.20419453	-0.633424	0.52645682	0.77417778
Hcrtr2	4.88181894	-0.1293505	0.27846478	-0.464513	0.64228024	NA
Uba1	49621.5054	-0.1293791	0.20170683	-0.6414216	0.52124881	0.77003139
C3ar1	0.50547126	-0.1294169	0.17500499	-0.739504	0.45960101	NA
4932435O22I	0.50547126	-0.1294169	0.17500499	-0.739504	0.45960101	NA
Gp6	0.50547126	-0.1294169	0.17500499	-0.739504	0.45960101	NA
Lalba	0.50547126	-0.1294169	0.17500499	-0.739504	0.45960101	NA
Chrm1	0.50547126	-0.1294169	0.17500499	-0.739504	0.45960101	NA
Gxy1t1	3156.54471	-0.1294288	0.23818111	-0.5434048	0.58685113	0.81289106
Rbm7	4895.17822	-0.1294643	0.1575163	-0.8219104	0.41112791	0.69365847
Hook3	3334.04413	-0.1295273	0.21114043	-0.6134652	0.5395688	0.78345793
Tcl1b1	0.50822433	-0.129541	0.17508336	-0.7398819	0.45937167	NA
Galnt10	656.555736	-0.1296496	0.24611173	-0.5267916	0.5983383	0.81984777
Mms22l	4903.36637	-0.1297221	0.17312325	-0.7493049	0.45367343	0.72463799
Filip1	50.3414036	-0.1297265	0.29186657	-0.4444719	NA	NA
Cbwd1	2965.65943	-0.1297364	0.20298924	-0.6391294	0.52273875	0.77123968
Zap70	382.460769	-0.1299332	0.3364465	-0.3861927	0.69935396	0.87735184
Cops3	12092.1246	-0.1299774	0.16944123	-0.7670945	0.44302535	0.71660986
Snora15	8.37397397	-0.1300043	0.42930092	-0.3028279	0.76202099	0.9048709
Slc44a5	30.3628979	-0.1300231	0.43144626	-0.3013658	0.76313558	0.90522666
1110059E24F	3163.85253	-0.1300236	0.18201419	-0.7143598	0.47500473	0.7406365
Kctd20	4823.06553	-0.1301299	0.17696262	-0.7353523	0.46212495	0.73227074

Ccdc13	99.6957292	-0.1302022	0.39178158	-0.3323337	0.73963733	0.89521445
Rsl24d1	4981.71631	-0.1302683	0.17772749	-0.7329667	0.46357871	0.73330409
Psmc5	6902.44717	-0.1302929	0.1574817	-0.8273524	0.40803733	0.69189712
Gm10845	0.53030558	-0.1302976	0.17555997	-0.7421826	0.45797668	NA
9530059O14I	0.53030558	-0.1302976	0.17555997	-0.7421826	0.45797668	NA
D7Ertd443e	0.53030558	-0.1302976	0.17555997	-0.7421826	0.45797668	NA
Olfrc697	0.53030558	-0.1302976	0.17555997	-0.7421826	0.45797668	NA
Tex33	0.53030558	-0.1302976	0.17555997	-0.7421826	0.45797668	NA
Scn1a	0.53030558	-0.1302976	0.17555997	-0.7421826	0.45797668	NA
Epo	0.53030558	-0.1302976	0.17555997	-0.7421826	0.45797668	NA
Smg7	11881.434	-0.1303473	0.20871562	-0.624521	0.53228549	0.77862587
Nudt3	4788.65828	-0.130371	0.18233679	-0.715001	0.47460844	0.74052205
Il17c	4.53341659	-0.1304139	0.38275369	-0.3407253	0.73331041	NA
Dpp4	6412.56605	-0.1305845	0.41603465	-0.3138788	0.75361306	0.90191816
BB287469	3.93173898	-0.1306069	0.34466301	-0.3789409	0.70473179	NA
Mir7682	0.54688069	-0.1307948	0.17587222	-0.7436924	0.45706261	NA
Adcy8	0.54688069	-0.1307948	0.17587222	-0.7436924	0.45706261	NA
Fli1	0.54688069	-0.1307948	0.17587222	-0.7436924	0.45706261	NA
Otof	1.21439633	-0.1309446	0.25017619	-0.5234095	0.60068928	NA
A130010J15R	1027.55276	-0.1309603	0.18343549	-0.7139312	0.47526973	0.74079579
Zfp609	4743.38451	-0.1309751	0.24565492	-0.5331669	0.59391805	0.81756392
4930547E08F	1.00620084	-0.1309796	0.2081738	-0.6291841	0.52922856	NA
Gtf2h3	4393.93991	-0.1310705	0.15875763	-0.8256011	0.40903039	0.69259925
Kcnk3	1.62717829	-0.1311566	0.26719159	-0.4908709	0.62351776	NA
Wdr8	1199.80183	-0.1311743	0.18702889	-0.7013586	0.48307926	0.74571824
Serpinb8	18.5443182	-0.1312052	0.41030928	-0.3197714	0.74914166	0.90084943
Plxna4	59.7939122	-0.1313429	0.42693944	-0.3076382	0.75835764	0.90307174
lpp	956.415161	-0.1313667	0.21643807	-0.6069481	0.54388534	0.78623679
Kansl1	7835.29092	-0.1314001	0.23574578	-0.5573806	0.57726739	0.80734073
Chmp2a	6291.39789	-0.131404	0.24444737	-0.5375552	0.59088414	0.8159154
Mto1	1619.37633	-0.1314128	0.22347903	-0.5880317	0.556511	0.7956143
Sepw1	5511.14059	-0.1314521	0.22664763	-0.5799844	0.56192515	0.79905798
Mir6407	0.56896195	-0.1314936	0.17630963	-0.7458106	0.45578186	NA
Chrn3	0.56896195	-0.1314936	0.17630963	-0.7458106	0.45578186	NA
Polm	893.883251	-0.1315175	0.25513348	-0.5154849	0.60621422	0.8242033
Vmo1	6.72870927	-0.1315514	0.41807347	-0.314661	0.75301905	0.90191816
Mrs2	1221.85159	-0.1315639	0.25318781	-0.5196298	0.60332162	0.82274997
Cpne1	4390.83196	-0.1315818	0.24709446	-0.5325163	0.59436847	0.81778194
Slc39a13	638.482123	-0.131626	0.19125853	-0.6882098	0.4913207	0.75186608
Tcp10b	1.26296151	-0.131713	0.24906301	-0.5288339	0.59692064	NA
Agt	1.47960837	-0.1317371	0.23056839	-0.571358	0.56775701	NA

Cd86	2.90641431	-0.131913	0.34446757	-0.3829475	0.70175866	NA
Tbcd	6599.01549	-0.1319597	0.1671079	-0.7896678	0.4297218	0.70558586
Prss33	10.9024812	-0.1319686	0.42424602	-0.3110662	0.75575033	0.90203956
9330175E14F	1.57999738	-0.1320297	0.26446012	-0.4992424	0.61760866	NA
Spink5	0.58829013	-0.1320579	0.17666165	-0.7475187	0.45475053	NA
Glr3	2557.03701	-0.1321254	0.20199828	-0.6540918	0.51305266	0.76583624
Ndufa13	7925.41656	-0.1321966	0.23629348	-0.5594592	0.57584835	0.80726744
2810008D09I	1300.35471	-0.1322179	0.2866659	-0.4612263	0.64463624	0.84568401
Dync1li1	7226.07551	-0.132231	0.17232838	-0.7673197	0.44289149	0.7165424
Cabp2	2.77368126	-0.1322724	0.26299944	-0.5029379	0.61500792	NA
Pi15	1.65641529	-0.1323765	0.26783752	-0.494242	0.6211353	NA
Tktl1	54.6732624	-0.1324755	0.33323561	-0.3975432	0.69096697	0.87365931
Fbxw10	172.018679	-0.1325139	0.41899483	-0.3162663	0.75180041	0.90161989
Vps4b	7822.60259	-0.1325287	0.15812472	-0.8381279	0.40195885	0.68675204
Mis12	3512.16307	-0.1326397	0.18154066	-0.7306333	0.46500314	0.73410475
Hist1h3h	2.0586805	-0.1326829	0.27700147	-0.4789971	0.63194068	NA
Zcchc10	4750.07243	-0.1326856	0.155622	-0.8526145	0.39387313	0.68150459
Bdh1	4617.8237	-0.1327167	0.23736178	-0.5591324	0.57607137	0.80734073
Kctd9	2101.2669	-0.1327214	0.1921329	-0.6907792	0.48970431	0.75080269
Raph1	3843.69217	-0.13275	0.19781213	-0.6710914	0.50216228	0.75905187
Agap3	2426.33178	-0.132812	0.19082051	-0.6960049	0.48642579	0.7479826
Camk2n1	1252.4485	-0.1328555	0.32359606	-0.4105597	0.68139541	0.86734714
Rnf135	900.774821	-0.132942	0.19991122	-0.6650055	0.50604701	0.76151896
1700016G22I	2.08769699	-0.1329526	0.33180838	-0.4006909	0.68864768	NA
Efhc1	278.955274	-0.1329707	0.35137388	-0.3784307	0.70511064	0.87969669
Mir1188	2.00565445	-0.133002	0.33792572	-0.3935837	0.69388845	NA
Ms4a6d	16.0090981	-0.1330397	0.32670689	-0.4072141	0.68385073	0.86885207
Foxe1	4.75586653	-0.1330461	0.38313741	-0.3472542	0.72840032	NA
Gm14420	840.853297	-0.1330597	0.21345514	-0.6233614	0.53304708	0.77898001
Polr3h	1584.67328	-0.1331101	0.20656171	-0.6444085	0.51931055	0.76934346
Ccng1	35081.8319	-0.1331474	0.22405583	-0.59426	0.55233825	0.79179683
Arid4a	3277.35724	-0.1331522	0.21412154	-0.6218531	0.53403844	0.77964999
Emx1	19.1854991	-0.1331538	0.43223582	-0.3080582	0.75803803	0.90307174
Dsel	579.356187	-0.1332721	0.25390407	-0.5248914	0.59965871	0.82031074
Gm13124	2.7888523	-0.1332754	0.35923706	-0.3709957	0.71064074	NA
Trappc10	1915.50495	-0.1332934	0.20875767	-0.638508	0.52314306	0.77134708
Adcy6	182.493972	-0.1334082	0.28454292	-0.468851	0.63917613	0.84223427
Rtnn	2452.64932	-0.1335267	0.20040906	-0.6662708	0.50523804	0.76089065
Cd274	34.3172496	-0.1336646	0.3972376	-0.3364853	0.73650495	0.89381837
Cwc25	2604.89242	-0.1336724	0.21507992	-0.621501	0.53427002	0.77984166
Ube3c	8332.17585	-0.1336748	0.18976442	-0.7044247	0.4811683	0.7445399

Edn2	0.61874909	-0.1336903	0.17767455	-0.7524451	0.45178343	NA
Mir1960	0.61874909	-0.1336903	0.17767455	-0.7524451	0.45178343	NA
Gm1966	0.61874909	-0.1336903	0.17767455	-0.7524451	0.45178343	NA
Dhdds	1643.39816	-0.1337008	0.18200717	-0.734591	0.46258861	0.73263219
Taf5	2744.78399	-0.1337831	0.17044585	-0.7849008	0.43251172	0.70786735
Wnt8b	5.3171869	-0.1338593	0.35604512	-0.3759616	0.70694545	NA
Snw1	11056.7361	-0.1338998	0.15397436	-0.8696243	0.38450576	0.67381667
Rnf20	4441.98806	-0.1339026	0.16495325	-0.811761	0.4169288	0.69852668
Fbxl8	131.999252	-0.1339245	0.32085865	-0.4173942	0.67639008	0.864488
Cox18	1591.30671	-0.1339354	0.18751877	-0.7142505	0.47507229	0.7406365
Psmb6	17292.6975	-0.1339572	0.23531722	-0.5692624	0.56917809	0.80415085
Mir301	2.12571064	-0.1339821	0.31137587	-0.4302904	0.66698437	NA
Tm2d2	1479.03856	-0.1342733	0.20348828	-0.6598578	0.50934509	0.7640422
Sik2	1045.58903	-0.1342861	0.25802024	-0.520448	0.60275139	0.82244335
Agps	11836.78	-0.1343382	0.18073322	-0.7432957	0.45730266	0.7278929
Hsf1	2104.48434	-0.1343606	0.16890532	-0.795479	0.42633494	0.70402942
Gm6251	30.280154	-0.1345121	0.40781545	-0.3298356	0.74152417	0.89648156
Arf5	4668.34498	-0.1345943	0.2009007	-0.6699544	0.50288685	0.75933521
Rnps1	6089.22023	-0.1346041	0.25133148	-0.5355639	0.59225995	0.81672736
Ptger3	8.58207472	-0.1346257	0.42114373	-0.3196669	0.74922085	0.90084943
Klhl13	12080.1414	-0.1346301	0.23805787	-0.5655352	0.57170981	0.80538015
Apoc3	0.66015853	-0.1346793	0.178284	-0.7554199	0.44999705	NA
Ctla4	0.66015853	-0.1346793	0.178284	-0.7554199	0.44999705	NA
Rbpjl	0.6629116	-0.1347575	0.17833208	-0.755655	0.44985609	NA
Rcc1	9256.82444	-0.1349049	0.17379519	-0.776229	0.43761379	0.7115571
Fam98b	3695.50006	-0.1350332	0.1743134	-0.7746574	0.43854216	0.71220104
Akap8	14517.2573	-0.1350816	0.19876763	-0.6795953	0.49676072	0.7560535
Eif3f	15395.4108	-0.1351167	0.15990574	-0.8449774	0.39812344	0.68403686
Dnajc10	8341.27112	-0.1351335	0.16754545	-0.8065481	0.41992688	0.70031666
Ssh3	213.922032	-0.1351938	0.31685757	-0.4266706	0.66961925	0.86052797
Thop1	6543.24342	-0.1352206	0.1965238	-0.6880624	0.49141348	0.75186608
Zfp524	179.524874	-0.1353167	0.26969559	-0.5017386	0.61585142	0.82990514
Wdr62	5023.06426	-0.1354068	0.18360205	-0.7375016	0.4608174	0.73116428
Hrct1	5.74008155	-0.1355372	0.38623755	-0.3509168	0.72565077	NA
Tomm40	9996.96277	-0.1355764	0.20657492	-0.6563064	0.51162699	0.76525068
S1pr1	520.661478	-0.1355956	0.34675318	-0.3910435	0.69576505	0.8756043
Trappc1	2560.29671	-0.1356368	0.23980388	-0.5656154	0.57165522	0.80538015
Eapp	2748.46492	-0.1356414	0.19935539	-0.6804001	0.49625113	0.75578268
Rasa1	4748.56531	-0.1356495	0.21280312	-0.6374412	0.5238375	0.77171248
Poc1b	1164.6866	-0.1356851	0.19724903	-0.6878871	0.4915239	0.75186608
Gm7361	0.70707411	-0.1357384	0.17893328	-0.7585978	0.4480932	NA

Fbxw21	0.70707411	-0.1357384	0.17893328	-0.7585978	0.4480932	NA
Olf703	0.70707411	-0.1357384	0.17893328	-0.7585978	0.4480932	NA
Ppp1r13l	640.202519	-0.1357512	0.22391816	-0.6062536	0.5443464	0.78623679
Ccdc184	8.08397258	-0.1357545	0.41753851	-0.3251306	0.74508223	0.89857636
Tesk1	594.983396	-0.1357782	0.25122752	-0.5404593	0.58888033	0.8143171
Aacs	3578.7009	-0.1357957	0.20247992	-0.6706625	0.50243557	0.75924357
Napg	3109.23936	-0.1359009	0.15286508	-0.8890248	0.37398974	0.66357547
Rab9	4234.85501	-0.1359707	0.15257408	-0.8911783	0.37283354	0.66269681
Mettl23	1012.10372	-0.1360469	0.20918675	-0.6503609	0.51545911	0.76685206
Vsig10l	132.17427	-0.1360797	0.35439348	-0.3839791	0.70099396	0.87785127
Gm5475	0.72640229	-0.1361309	0.17917303	-0.7597735	0.44739001	NA
Mir130b	3.24141566	-0.1361449	0.33493135	-0.406486	0.68438553	NA
Edc4	7608.54924	-0.1361792	0.24327196	-0.5597816	0.5756284	0.80714793
Nek9	4375.01634	-0.1362027	0.18075348	-0.7535277	0.4511329	0.72303079
Gps2	1367.72805	-0.1363149	0.24426161	-0.5580693	0.57679703	0.80734073
Tmem64	6247.58587	-0.1363781	0.3467573	-0.3932956	0.69410119	0.87496374
Telo2	1411.56284	-0.1364288	0.17711012	-0.7703049	0.44111906	0.71516289
Hcrt	2.55454072	-0.1364995	0.22000804	-0.6204297	0.5349749	NA
Gm14405	0.74573047	-0.1365104	0.17940437	-0.7609091	0.44671139	NA
Rrn3	15226.9352	-0.1365505	0.18600443	-0.7341252	0.46287244	0.73275933
Pot1b	1402.71038	-0.1366617	0.23611364	-0.5787964	0.56272655	0.79946653
S100a3	1.89082937	-0.1366997	0.30268448	-0.4516245	0.65153952	NA
Bicd1	696.911871	-0.1367198	0.21157062	-0.6462135	0.51814112	0.76808698
1700007B14f	0.52755251	-0.1368419	0.17954572	-0.7621565	0.44596663	NA
Mir543	0.52755251	-0.1368419	0.17954572	-0.7621565	0.44596663	NA
Mirlet7g	0.52755251	-0.1368419	0.17954572	-0.7621565	0.44596663	NA
2300005B03f	0.52755251	-0.1368419	0.17954572	-0.7621565	0.44596663	NA
Mir5133	25.1626833	-0.1368655	0.42635773	-0.321011	0.74820204	0.90057336
Gnat2	39.5109486	-0.1370261	0.37612283	-0.3643121	0.71562493	0.88472721
Crls1	2746.53919	-0.1370402	0.1729103	-0.7925506	0.4280397	0.70472095
Lair1	6.68732784	-0.1370471	0.40808724	-0.3358279	0.73700067	0.89391803
LOC1008616	2.54113362	-0.1371668	0.32043706	-0.4280615	0.66860636	NA
Eif3c	46173.128	-0.1372224	0.15133785	-0.9067292	0.36455003	0.65463251
Gm5795	0.78438684	-0.1372325	0.17984323	-0.7630676	0.44542307	NA
Klrb1f	0.78438684	-0.1372325	0.17984323	-0.7630676	0.44542307	NA
Zfp191	3769.88868	-0.1372639	0.1862469	-0.7369998	0.46112247	0.73142754
Ascc2	3832.46218	-0.137287	0.21953648	-0.6253493	0.53174182	0.7783431
Ppp1r36	25.6437367	-0.1372897	0.40789256	-0.3365831	0.73643123	0.89379865
Nop2	13636.9454	-0.1373295	0.20497632	-0.6699773	0.50287228	0.75933521
Mir1929	1.4379336	-0.1373361	0.23107649	-0.5943316	0.55229038	NA
Ndufs2	14067.2545	-0.1373972	0.1668241	-0.823605	0.41016404	0.69309338

Arhgap20	69.9518075	-0.13741	0.40491346	-0.3393566	0.73434114	0.89276431
BC048602	0.77343636	-0.1374552	0.17997841	-0.7637319	0.44502704	NA
Nhp2l1	2719.57854	-0.1374677	0.18773626	-0.7322384	0.46402309	0.7336339
Phf20l1	1602.88075	-0.1374876	0.21965231	-0.6259328	0.53135904	0.7782358
Hpcal4	24.5558599	-0.1375191	0.42300642	-0.3250993	0.74510592	0.89857636
Dner	261.171544	-0.1375935	0.39135051	-0.3515863	0.72514853	0.88898579
Edc3	3932.1332	-0.1376027	0.19090567	-0.7207892	0.47103925	0.73829186
Hspa9	74431.281	-0.1376309	0.18967753	-0.7256046	0.4680812	0.7360836
Fam71f1	5.40242303	-0.1376451	0.37856924	-0.3635928	0.71616209	NA
Gm5129	2.91392519	-0.1377525	0.33513727	-0.411033	0.68104831	NA
Pfdn5	5215.39204	-0.1377614	0.21089663	-0.6532175	0.51361606	0.76592775
Lsm5	3329.45663	-0.1377659	0.20028994	-0.6878325	0.49155825	0.75186608
Tslp	0.79551762	-0.1378327	0.1802108	-0.7648417	0.44436579	NA
Vdac3	5924.282	-0.137845	0.19223571	-0.7170625	0.47333555	0.73971926
Taf5l	7823.55373	-0.1378719	0.19442335	-0.7091323	0.47824241	0.74289758
Zfp84	1654.82642	-0.1380231	0.18395804	-0.7502966	0.45307608	0.72431158
Heatr6	2277.81336	-0.1380677	0.2265813	-0.6093519	0.54229124	0.78513836
Ankrd32	2422.96314	-0.1381364	0.22161623	-0.6233134	0.5330786	0.77898001
E130102H24I	294.553889	-0.1381831	0.22637875	-0.6104069	0.5415923	0.78492088
4930518P08F	0.81759887	-0.1382087	0.18043421	-0.7659785	0.44368909	NA
Srrm1	24183.9644	-0.1382122	0.19791651	-0.6983361	0.48496705	0.74729712
Prkar1a	11624.4316	-0.1383011	0.1736339	-0.7965096	0.42573591	0.70394674
Snx15	652.911756	-0.1383026	0.20459878	-0.67597	0.4990597	0.75701106
Apeh	3433.83585	-0.1383542	0.18971763	-0.729264	0.46584017	0.73478857
Plagl2	1449.22949	-0.1383625	0.21288213	-0.6499488	0.51572532	0.76698137
Rnf223	6.30538832	-0.1383712	0.40779729	-0.3393137	0.73437342	0.89276431
C2	323.663654	-0.1384084	0.37556466	-0.3685341	0.71247505	0.88374769
Flot2	5098.04382	-0.1385409	0.26214228	-0.528495	0.59715582	0.81955501
Mrpl55	1471.08813	-0.1385599	0.23883126	-0.580158	0.56180808	0.79905798
Zfp654	2910.2143	-0.138561	0.21907742	-0.6324751	0.52707648	0.7745763
Mpp5	3539.37678	-0.1386584	0.22318092	-0.6212824	0.53441381	0.77984269
Hgd	2.66374102	-0.138699	0.32643186	-0.4248941	0.67091388	NA
Hes5	4.19177695	-0.1387094	0.39058614	-0.3551315	0.72249107	NA
Ahnak	10849.5003	-0.1387259	0.27179886	-0.510399	0.60977194	0.82596491
Zcchc6	3528.3834	-0.1387483	0.18381635	-0.7548201	0.45035694	0.7229269
Gpr98	625.945358	-0.1388045	0.23976172	-0.5789267	0.56263862	0.79946653
Vmn2r2	0.86176138	-0.1389084	0.18085591	-0.7680611	0.44245089	NA
Poc1a	1500.50931	-0.1389114	0.23668424	-0.5869059	0.55726692	0.79587849
Hist1h2bh	2.25884089	-0.1389563	0.31530232	-0.4407081	0.65942437	NA
Gmeb1	3052.02838	-0.1390587	0.179383	-0.7752056	0.4382182	0.71194435
Upk2	42.9306922	-0.1392269	0.42774969	-0.3254868	0.74481268	0.89836205

Defb46	0.88384263	-0.1392395	0.18105499	-0.7690456	0.44186622	NA
Olf901	0.88384263	-0.1392395	0.18105499	-0.7690456	0.44186622	NA
Got2	7596.38912	-0.1392729	0.20720062	-0.6721644	0.50147906	0.75846147
Sp2	3939.49089	-0.1393124	0.20501462	-0.6795242	0.49680577	0.7560535
Rbm6	8565.58269	-0.1393657	0.15033369	-0.9270426	0.35390441	0.64535266
Fdps	10659.002	-0.1393928	0.22453239	-0.6208139	0.53472205	0.77984269
Ccrl2	1.04210414	-0.1394339	0.21296254	-0.6547346	0.51263863	NA
Herc2	6665.30101	-0.1394422	0.25389525	-0.5492115	0.5828603	0.81037645
Phrf1	7371.85429	-0.1396493	0.20308982	-0.6876231	0.49169013	0.75199382
Zfp653	481.837022	-0.1396494	0.22364673	-0.6244196	0.53235205	0.77863648
Ankmy1	22.3978509	-0.1396921	0.43215225	-0.3232475	0.74650783	0.89956941
Eccscr	148.672658	-0.139771	0.41403917	-0.3375791	0.73568043	0.89351502
Enkd1	1247.40256	-0.1399574	0.19724859	-0.7095482	0.47798436	0.74273443
Dhx16	18109.9019	-0.140014	0.1541952	-0.9080311	0.36386177	0.65400074
Ly6a	1292.12127	-0.1400849	0.19039028	-0.7357776	NA	NA
BC030500	0.92812363	-0.1401055	0.181574	-0.7716165	0.4403416	NA
Mrgprf	34.0354884	-0.1401879	0.42235332	-0.331921	0.73994892	0.89541247
Erc2	716.357041	-0.1402324	0.2264031	-0.6193925	0.53565785	0.7803571
Mzb1	24.2837357	-0.1402659	0.42943368	-0.3266301	0.7439477	0.89792443
Tubb4b	21959.491	-0.1402784	0.21986828	-0.6380111	0.52346643	0.77157293
Gna13	9365.03057	-0.1403295	0.22562619	-0.6219556	0.53397105	0.77962481
Ago4	191.611631	-0.1403398	0.30942824	-0.4535456	0.65015591	0.84900546
Ehd2	67.1781041	-0.1403602	0.40041951	-0.3505329	0.72593884	0.88936235
Vps8	2578.5939	-0.1403763	0.16554037	-0.8479886	0.39644435	0.68311424
Psm6	9526.88519	-0.1404009	0.16063184	-0.8740541	0.38208877	0.67101778
Glt1d1	1287.80858	-0.1404329	0.17452622	-0.8046523	0.42102032	0.70091929
Apbb2	2347.79097	-0.1405658	0.22110892	-0.6357312	0.52495163	0.77262188
Klk1b21	0.83922908	-0.1405951	0.22817385	-0.6161752	0.53777888	NA
Hrasls5	0.83922908	-0.1405951	0.22817385	-0.6161752	0.53777888	NA
Pdcd7	2750.10657	-0.140738	0.16798153	-0.8378186	0.4021326	0.68675204
Smad6	521.783776	-0.140856	0.31645617	-0.4451042	0.65624443	0.85271673
Taf1	11270.8639	-0.1409336	0.20767512	-0.6786255	0.49737521	0.75628114
Zfand6	7401.87512	-0.1409962	0.18653923	-0.7558528	0.44973746	0.72243232
Gng4	1.73230897	-0.1410012	0.26386896	-0.5343605	0.59309213	NA
Vps13a	3634.75227	-0.1410197	0.21431685	-0.6579964	0.51054042	0.76464545
Appbp2	5635.35449	-0.1410513	0.23963256	-0.5886148	0.55611968	0.7952367
Cacnb3	941.991991	-0.1410619	0.31153145	-0.4528015	0.65069167	0.84904399
Mei1	15.8055377	-0.1410874	0.43212993	-0.3264931	0.7440513	0.89793122
Foxred1	3375.81529	-0.1411507	0.16958349	-0.8323375	0.40521848	0.68916712
Sap130	5762.9538	-0.1411847	0.20876591	-0.6762822	0.49886149	0.75696826
Txn14b	523.126157	-0.1412118	0.26128707	-0.540447	0.58888883	0.8143171

Chchd4	6478.97109	-0.1413276	0.16337516	-0.8650495	0.38701161	0.67599882
4930555G01I	0.85625524	-0.141353	0.18229791	-0.7753956	0.43810592	NA
Slc8b1	2534.37205	-0.1414095	0.2111189	-0.6698099	0.50297896	0.75940056
Cd59a	694.011552	-0.1414395	0.25597295	-0.5525564	0.58056718	0.80865954
Snora33	245.220724	-0.1415066	0.27334388	-0.5176873	0.60467647	0.82336928
E330034G19I	1.09881648	-0.1415835	0.21550775	-0.6569765	0.51119604	NA
Gcn1l1	11223.1674	-0.1416391	0.23165656	-0.6114185	0.54092257	0.7846986
Mrps30	5282.34296	-0.1416436	0.17027437	-0.8318549	0.40549085	0.68938321
Gm15987	1.06061116	-0.1416823	0.18251325	-0.7762848	0.43758087	NA
Otub1	5146.84029	-0.1416949	0.19503702	-0.7265027	0.46753066	0.735927
Zbed3	617.664198	-0.1417661	0.24750086	-0.5727902	0.56678673	0.80244906
Cwf19l1	2052.07011	-0.1417911	0.17876976	-0.7931495	0.42769075	0.70467677
Mapk9	4675.29181	-0.1417974	0.16662104	-0.8510173	0.39475972	0.68226374
Tmem237	925.753559	-0.1418813	0.19912047	-0.71254	0.47613043	0.74146849
Gatad1	5387.79816	-0.1419155	0.20939499	-0.6777408	0.49793606	0.75642242
Naalad2	359.079915	-0.1419226	0.40666353	-0.3489927	NA	NA
Ccdc85b	703.283992	-0.1419348	0.25249873	-0.562121	0.57403356	0.80656634
Lta	2.10262251	-0.1419865	0.33524101	-0.4235355	0.67190461	NA
Rcn1	17330.7353	-0.1420404	0.21746957	-0.6531509	0.51365902	0.76592775
Pramel1	93.6548743	-0.1421628	0.31247215	-0.4549615	0.64913691	0.84869184
Cipc	2599.56763	-0.1421961	0.21928438	-0.6484552	0.51669058	0.767621
Gpc5	0.86846607	-0.1422128	0.22987165	-0.6186619	0.53613911	NA
Sema6c	1354.72466	-0.1422577	0.27178809	-0.523414	0.60068619	0.82133343
Gnal	517.155614	-0.1423694	0.29209994	-0.4873997	0.62597507	0.83432634
4933406J10R	3.08555853	-0.1423725	0.32562557	-0.4372276	0.6619463	NA
Hint1	19454.6715	-0.1423803	0.22293351	-0.638667	0.52303959	0.77134419
Dnajc8	17487.2742	-0.142403	0.17989668	-0.791582	0.42860442	0.7047819
Snora61	465.306925	-0.1424739	0.24266376	-0.5871247	0.55711999	0.79586293
Adk	3107.40852	-0.1426507	0.17925311	-0.795806	0.42614479	0.70402942
Pth1r	14.9777778	-0.1426662	0.42960109	-0.3320899	0.73982138	0.89532781
N6amt1	1019.07116	-0.1429462	0.20432587	-0.6995992	0.48417765	0.74704303
Odf3l1	2.39504455	-0.1429678	0.29308301	-0.4878064	0.62568698	NA
lpo8	6380.22185	-0.1430323	0.21567207	-0.6631933	0.50720675	0.76252632
Txnrd2	401.606136	-0.1431645	0.23454356	-0.6103964	0.54159925	0.78492088
1700109G15I	0.90317082	-0.1431658	0.18336312	-0.7807778	0.43493321	NA
Vstm2b	2.51176843	-0.1431664	0.29400465	-0.4869529	0.6262917	NA
Fam114a2	6093.83031	-0.1432454	0.23632104	-0.6061475	0.54441678	0.78623679
Ints7	5384.38747	-0.1432664	0.2215282	-0.6467186	0.5178141	0.76807775
Zcchc11	5120.70187	-0.1432785	0.23110881	-0.6199611	0.5352834	0.78029548
Dnajb6	4739.31346	-0.1433645	0.24503251	-0.5850834	0.55849162	0.79677132
Heatr2	3281.11961	-0.1433789	0.21055843	-0.6809459	0.49590571	0.75561726

2610005L07F	145.891604	-0.1434214	0.32211581	-0.445248	0.65614055	0.85271673
Olf147	1.23737969	-0.1434838	0.18357739	-0.7815984	0.43445062	NA
Spata16	1.23737969	-0.1434838	0.18357739	-0.7815984	0.43445062	NA
B3gnt1	631.365269	-0.1436086	0.19991205	-0.7183587	0.47253615	0.73916179
Kng2	103.901624	-0.1436435	0.34418324	-0.417346	0.67642531	0.864488
Fbxw11	6856.7072	-0.1436475	0.24562287	-0.5848293	0.55866249	0.79686909
Pld6	518.100327	-0.1436914	0.23887711	-0.6015287	0.54748791	0.7884049
Gal3st1	115.066934	-0.1438437	0.39599402	-0.3632472	0.7164202	0.88475417
Mrpl23	419.453423	-0.1438456	0.23841469	-0.603342	0.54628122	0.78754234
Hes6	690.454672	-0.1439111	0.25652047	-0.5610122	0.57478919	0.80673793
Eri2	2292.37168	-0.1440264	0.17742622	-0.8117537	0.41693297	0.69852668
Cnot2	9480.8486	-0.1440375	0.14646545	-0.9834231	0.32539923	0.61902113
Ptcra	6.7532463	-0.1441313	0.38525618	-0.374118	0.70831649	0.88125982
Cdc37	16256.5319	-0.1442009	0.18449502	-0.781598	0.43445088	0.70860901
Blmh	9381.52651	-0.1442984	0.16656396	-0.8663241	0.38631247	0.6752479
Eif2ak4	3188.50951	-0.1443457	0.14652659	-0.9851163	0.32456693	0.61877141
Hist1h2bn	1.09464435	-0.1443742	0.21388654	-0.6750035	0.49967355	NA
Zfp652os	2.35206445	-0.1444622	0.31531636	-0.4581501	0.64684458	NA
Galnt12	651.345432	-0.1444839	0.33373189	-0.432934	0.66506275	0.85764912
4933429K18F	1.66006318	-0.1444998	0.26852504	-0.5381243	0.59049127	NA
Smoc2	3.2382475	-0.1445277	0.32181195	-0.4491059	0.65335525	NA
Dync1li2	4832.06472	-0.1445402	0.18108383	-0.7981951	0.42475728	0.70307615
Fuom	492.132161	-0.1445533	0.29328503	-0.4928765	0.62209984	0.83212408
Wdr19	1219.83323	-0.1445928	0.16618393	-0.8700769	0.38425836	0.673459
BC037034	1407.37633	-0.1446355	0.20969281	-0.6897497	0.49035163	0.75122526
Ctag2	0.82667925	-0.1447058	0.22767779	-0.6355727	0.52505499	NA
Prdm14	5336.54196	-0.1447389	0.20805191	-0.6956864	0.48662522	0.74804065
Aaas	9359.62808	-0.144791	0.16129378	-0.8976848	0.36935363	0.65967648
Ly6i	1.41414821	-0.1448675	0.18438826	-0.7856654	0.43206354	NA
Gm15217	1.41414821	-0.1448675	0.18438826	-0.7856654	0.43206354	NA
Ss18l1	555.397929	-0.1449053	0.26701267	-0.5426906	0.58734284	0.81340776
Sox5	2.51693557	-0.1449087	0.34665634	-0.4180184	0.67593369	NA
Klf15	1620.74649	-0.144966	0.2551727	-0.5681094	0.56996065	0.80452556
D17Wsu104e	3305.71866	-0.1449979	0.200403	-0.7235317	0.46935326	0.73704055
Itga8	26.987733	-0.145023	0.42237045	-0.3433551	0.73133136	0.89152719
Mroh1	2639.31331	-0.1450342	0.22282914	-0.6508763	0.51512634	0.76651865
Zscan20	783.395549	-0.1451184	0.21427248	-0.6772611	0.49824029	0.75670871
Fbxo22	7797.62937	-0.1451697	0.18755648	-0.7740051	0.43892776	0.712576
Rptor	4251.27851	-0.1452724	0.25899601	-0.5609059	0.5748617	0.80673793
Xkr8	689.476711	-0.1453298	0.25386991	-0.5724576	0.56701199	0.80254878
Tnfaip8	1154.13215	-0.145551	0.2516748	-0.5783297	0.56304156	0.79976792

Rasgrp3	17.9805196	-0.1456118	0.39998961	-0.3640391	0.71582884	0.88472721
Guf1	2524.42562	-0.1456259	0.24044033	-0.6056636	0.54473819	0.78639569
Lypd2	4.98447393	-0.1456729	0.35107855	-0.4149295	0.67819349	NA
Duoxa1	13.4302058	-0.1457094	0.40332416	-0.3612712	0.71789674	0.88547913
Emd	5326.70821	-0.1457733	0.16507895	-0.883052	0.37720817	0.66718742
Prkcd	2868.14637	-0.145784	0.18066721	-0.80692	0.41971256	0.7002414
Rpl36	23509.3172	-0.1458207	0.25725794	-0.5668267	0.57083192	0.80505969
Mad2l1bp	702.494452	-0.1458252	0.25185576	-0.5790029	0.56258723	0.79946653
Eml5	2189.48805	-0.1460556	0.21274034	-0.6865438	0.49237023	0.75266386
Ccdc88b	159.96345	-0.1460727	0.38989462	-0.3746467	0.70792325	0.88112271
Gm15284	6.48142583	-0.1460837	0.36067785	-0.4050254	0.68545882	0.86995594
Dnmt1	26241.474	-0.1461199	0.21098765	-0.6925519	0.48859081	0.74961283
Cdk18	2058.48045	-0.1461477	0.21753472	-0.6718363	0.50168794	0.75870361
Scrn2	796.082966	-0.1461823	0.25691299	-0.5689953	0.56935934	0.80418512
BC053749	520.416773	-0.1462217	0.23549389	-0.620915	0.53465558	0.77984269
Echs1	7610.06824	-0.1462218	0.18677203	-0.7828893	0.43369213	0.70858066
Tmem170	1243.03884	-0.1462233	0.23039191	-0.6346721	0.52564229	0.77341879
Smug1	1810.92352	-0.1463144	0.18897448	-0.7742548	0.43878015	0.71241075
Zdhhc23	151.091711	-0.1464108	0.35053852	-0.417674	0.67618545	0.864488
Slc4a10	125.164777	-0.146434	0.33815435	-0.4330389	0.6649865	0.85762192
Capn1	5168.84504	-0.1464715	0.26706749	-0.5484437	0.58338727	0.81074669
Fam92b	0.89766468	-0.1464949	0.18528661	-0.7906397	0.4291543	NA
Tmem143	1223.79238	-0.1465261	0.21035584	-0.696563	0.48607635	0.7479571
Timm50	4625.34975	-0.1465289	0.18724597	-0.7825477	0.43389279	0.70858066
Mettl1	1402.77153	-0.1465328	0.21130714	-0.6934589	0.4880216	0.749183
Stard3	1117.36472	-0.1466499	0.26546578	-0.5524247	0.58065741	0.80868739
Pold4	288.585667	-0.1467461	0.30664887	-0.4785477	0.6322604	0.83807377
Dek	27626.5592	-0.1467622	0.20582458	-0.713045	0.47581788	0.74133857
C030037D09I	15.390146	-0.1467836	0.42865027	-0.3424321	0.73202573	0.89179257
Svop	79.527838	-0.1468186	0.34190629	-0.4294119	0.66762349	0.85924293
Gemin2	3894.69066	-0.1468481	0.17264721	-0.8505675	0.39500965	0.68236944
Bms1	11385.3327	-0.1469402	0.21640419	-0.6790083	0.49713263	0.75614418
Best1	34.5007527	-0.1470125	0.39547534	-0.3717362	0.71008926	0.88195802
Flad1	1702.49608	-0.1471241	0.19162658	-0.7677645	0.44262712	0.71626371
Lekr1	155.415186	-0.1474098	0.33167731	-0.4444374	0.65672638	0.85275541
Cd300a	51.7163393	-0.1474302	0.38346423	-0.3844693	0.70063063	0.87785127
Rabggb	12379.7296	-0.1474996	0.18120549	-0.8139908	0.4156502	0.69777304
Cpped1	2672.28636	-0.1475025	0.17720881	-0.8323654	0.40520275	0.68916712
Ndel1	3015.35574	-0.1475457	0.20966175	-0.7037319	0.48159974	0.74482882
Thsd7b	1.33758298	-0.1475894	0.25382317	-0.5814655	0.56092678	NA
Piezo1	6900.12391	-0.147709	0.25340934	-0.5828872	0.55996927	0.79814554

Copb2	17526.7141	-0.1477139	0.1381141	-1.0695062	0.28484163	0.57774517
Ttc23l	0.88063851	-0.1477339	0.23080559	-0.6400795	0.52212089	NA
Coq7	2312.82244	-0.1478599	0.21979209	-0.6727261	0.50112159	0.75821324
Tmx2	4277.73447	-0.1480228	0.15784166	-0.9377929	0.34835087	0.6406706
Nap1l3	201.349525	-0.148386	0.31762163	-0.4671786	0.64037207	0.84294424
Nmt2	11114.7724	-0.1484366	0.1619676	-0.9164583	0.35942657	0.65018613
Npm3-ps1	556.037539	-0.1484537	0.24939781	-0.5952484	0.55167744	0.79136019
Fkbp15	2879.85905	-0.1484702	0.24336573	-0.6100702	0.54181532	0.78503401
Mlh1	3747.2142	-0.1484768	0.17291853	-0.8586515	0.3905328	0.6789464
Slc35c2	2098.95609	-0.1484819	0.23088393	-0.6431021	0.52015788	0.76986886
Bclaf1	27697.2855	-0.1485018	0.17262127	-0.8602751	0.38963742	0.67799188
Gdi1	6533.71699	-0.1485459	0.17045337	-0.871475	0.38349484	0.67248981
Myh10	8914.43691	-0.1485658	0.22819233	-0.6510552	0.51501084	0.76651865
Eif2s1	21435.2351	-0.1485976	0.16138799	-0.9207477	0.35718214	0.64828893
Snord69	114.195999	-0.1486276	0.34757888	-0.4276082	0.66893637	0.86007685
Olfm1	642.157802	-0.1486844	0.31841661	-0.4669492	0.64053624	0.84302806
Kat6b	22976.795	-0.1486861	0.21600645	-0.6883409	0.49123811	0.75186608
2310002J15R	49.6011769	-0.1487487	0.4301644	-0.3457951	0.72949673	0.89040454
Mterfd3	783.297323	-0.1487608	0.17403519	-0.8547741	0.39267622	0.68061835
Scyl2	2859.78751	-0.1487628	0.20114716	-0.7395719	0.45955982	0.73006586
Pirb	1.12927544	-0.148799	0.21859434	-0.6807083	0.49605611	NA
Hmgb1-rs17	2.07752285	-0.1488075	0.33528447	-0.4438245	0.65716946	NA
Atmin	9422.88877	-0.1488562	0.18254419	-0.815453	0.41481307	0.69715315
Snord123	2.56121657	-0.1489473	0.34057789	-0.4373368	0.66186709	NA
Fam109a	700.709495	-0.148958	0.24362308	-0.6114282	0.54091616	0.7846986
Pmvk	3408.28897	-0.14907	0.25772535	-0.5784064	0.56298981	0.79976747
Snord22	1088.34493	-0.1491097	0.26642903	-0.5596603	0.5757112	0.80714793
Simc1	1279.39747	-0.1491205	0.26231424	-0.5684804	0.56970884	0.8044622
Coro1a	121.556379	-0.1491496	0.34551948	-0.4316677	0.66598294	0.85847983
Ddx58	1676.65247	-0.1491719	0.37067531	-0.4024329	0.68736548	0.87088718
Pik3r5	12.2377614	-0.149175	0.4297874	-0.3470901	0.72852363	0.8900505
Ncoa1	2273.55427	-0.1492116	0.28660311	-0.5206209	0.60263089	0.82236318
Bag4	5068.80092	-0.1493104	0.22397804	-0.6666296	0.50500874	0.7607897
Ggta1	3923.21868	-0.1494252	0.21186351	-0.7052899	0.48062984	0.74425276
4931408C20F	13.8746612	-0.1494446	0.2015615	-0.7414344	NA	NA
Olf1371	0.922499	-0.1495108	0.18700817	-0.7994879	0.42400758	NA
Snord68	66.1410773	-0.1495557	0.39384119	-0.3797359	0.70414143	0.87942876
Ubxn7	7382.63875	-0.1495649	0.17775676	-0.8414023	0.40012259	0.68523795
Elavl1	10209.6029	-0.1496992	0.16310988	-0.9177814	0.35873332	0.64978295
Btc	15.1192703	-0.1497306	0.19792972	-0.7564834	NA	NA
Zfhx4	5.00375479	-0.1497981	0.35161353	-0.4260306	0.67008553	NA

Vta1	3406.34747	-0.1498245	0.17754475	-0.8438692	0.39874249	0.68457103
Mrpl15	13065.9078	-0.1498493	0.17691835	-0.8469972	0.39699669	0.68315763
Lsm14a	12059.9896	-0.1499073	0.15225179	-0.9846014	0.32481992	0.6188465
Snrpa	7326.38627	-0.1499316	0.20571936	-0.7288162	0.46611412	0.73498824
Gap43	26.0889796	-0.1499649	0.4270683	-0.3511497	0.72547602	0.88922398
lqcf5	16.7897237	-0.1499667	0.43063543	-0.3482452	0.72765604	0.88986097
Aga	1236.17945	-0.1499717	0.26250617	-0.5713074	0.56779127	0.80306738
Sppl2b	852.420061	-0.1500006	0.22798872	-0.65793	0.51058314	0.76464545
Dpep3	185.493326	-0.150043	0.38353034	-0.3912155	0.69563798	0.87551523
Ube2d1	1567.69672	-0.1500783	0.17323175	-0.8663442	0.38630145	0.6752479
Tmem233	7.54632311	-0.1500826	0.42611496	-0.3522116	0.72467959	0.88879488
Trim59	8274.63554	-0.1500975	0.25176553	-0.5961798	0.55105511	0.79097822
Rnf186	1.31952701	-0.1501507	0.25346133	-0.592401	0.5535821	NA
Arid1a	11920.9231	-0.1501702	0.25752322	-0.5831325	0.5598041	0.79801207
Apol7d	77.0072541	-0.1504217	0.33155288	-0.4536883	0.65005316	0.84900546
Mak16	14234.5332	-0.1505408	0.21706073	-0.6935421	0.48796942	0.74917686
Abl2	4776.46704	-0.1505545	0.24969113	-0.6029629	0.54653334	0.78775654
Vmn2r29	4.43041817	-0.1505822	0.39300312	-0.3831578	0.70160279	NA
Klc4	1079.23547	-0.1505868	0.19947753	-0.7549063	0.45030519	0.7229269
Rcc2	44769.735	-0.1506805	0.19863737	-0.7585705	0.44810951	0.7210835
Wdr37	2742.25316	-0.1506922	0.17657242	-0.8534302	0.39342078	0.68107388
Elp3	9345.66004	-0.1508584	0.18307098	-0.824043	0.40991514	0.69296557
Cabin1	5101.05859	-0.1508585	0.26478262	-0.5697448	0.56885079	0.8038345
Tex40	329.643735	-0.1508757	0.35748632	-0.422046	0.67299144	0.86279388
Nap1l1	59205.712	-0.15094	0.17143241	-0.8804638	0.37860808	0.66771292
Smc6	11288.2952	-0.1510011	0.18425709	-0.8195132	0.41249367	0.69505787
F2rl1	2209.81075	-0.151056	0.25819968	-0.5850355	0.55852384	0.79677132
Cnn3	39447.4373	-0.1512119	0.21812674	-0.6932294	0.4881656	0.74925614
Herc1	4432.2176	-0.151253	0.22665362	-0.6673313	0.50456056	0.76045952
Ttc7	825.484706	-0.1512999	0.30653182	-0.4935864	0.62159833	0.83196874
Uqcc2	2888.63702	-0.1513151	0.30861924	-0.4902971	0.62392365	0.83284435
Ap1g2	1154.3695	-0.1513189	0.20450212	-0.7399381	0.45933754	0.72986186
Slc29a1	8795.08517	-0.1513562	0.18255125	-0.8291164	0.40703852	0.69103232
Ppp2r2d	7310.54986	-0.1513995	0.18995545	-0.7970263	0.42543574	0.70377154
Pgf	39.3795532	-0.1515078	0.38527813	-0.3932426	0.69414032	0.87496374
Cux1	2410.08237	-0.151748	0.19290607	-0.7866417	0.43149166	0.70688509
Psmb3	9638.9764	-0.1517698	0.21422234	-0.7084686	0.47865432	0.74302874
Gmpr2	1513.86151	-0.1518333	0.16048186	-0.9461085	0.34409325	0.63732661
Gm13490	0.86808868	-0.1518965	0.23036343	-0.6593778	0.50965321	NA
Dlx3	48.9659358	-0.1519039	0.42741575	-0.3554009	0.72228931	0.88729924
Gm15760	29.0942757	-0.1519647	0.43159687	-0.3520988	0.72476419	0.88879488

2010107G12I	65.4090775	-0.1520461	0.377267	-0.40302	0.68693353	0.87068415
Rngtt	3800.77802	-0.1521413	0.15485032	-0.9825053	0.32585096	0.61926293
Colec11	2.79624469	-0.1521416	0.36334207	-0.4187283	0.67541474	NA
Slc7a7	982.38564	-0.1522089	0.27888611	-0.5457746	0.58522092	0.81209791
Efcab10	138.151011	-0.1522715	0.40553629	-0.3754817	0.70730226	0.88105428
Slc25a13	12785.4807	-0.1523563	0.15310633	-0.995101	0.31968716	0.61338124
Tprkb	2461.83594	-0.1525865	0.19429542	-0.7853323	0.43225879	0.70765938
Ghr	31.8605471	-0.1525985	0.43217133	-0.3530972	0.72401559	0.88829071
Ppp1r12a	5820.1959	-0.1527945	0.21607168	-0.7071472	0.479475	0.74369795
Slc4a1ap	2930.81716	-0.1528044	0.14821511	-1.0309636	0.30255789	0.59790613
Fbrs	1372.42428	-0.152953	0.23159248	-0.6604401	0.50897144	0.7637764
Ctbs	837.04769	-0.1530298	0.23651908	-0.6470083	0.51762656	0.76807205
Tecr	13243.5771	-0.1530885	0.22536214	-0.6793	0.4969478	0.7560535
U2af1	14138.3238	-0.1531611	0.18870048	-0.8116623	0.41698543	0.69853931
Pcbp2	40231.2585	-0.1531992	0.17833968	-0.8590302	0.39032387	0.67865904
Enho	43.5761562	-0.1532394	0.4162659	-0.3681285	0.71277739	0.88385306
2810032G03I	5.14768256	-0.153262	0.35822274	-0.4278399	0.66876766	NA
Gnao1	26.5967907	-0.153271	0.42928081	-0.3570414	0.72106078	0.88656328
Trmt13	1125.48037	-0.1533318	0.18618828	-0.8235308	0.41020624	0.69309338
Lrsam1	1094.79351	-0.1533329	0.18868387	-0.8126444	0.41642198	0.69837863
Zbtb9	1584.81289	-0.1533716	0.1790279	-0.8566913	0.39161554	0.67961313
Pcdhga11	105.501488	-0.1534115	0.35585657	-0.4311047	0.66639222	0.8585804
2510002D24I	986.473688	-0.1534241	0.23977938	-0.6398552	0.52226676	0.77084692
Mpz	10.3160272	-0.1534272	0.4118452	-0.3725362	0.70949367	0.8816794
Pnpla7	743.521342	-0.1534453	0.19297365	-0.7951619	0.42651935	0.70402942
Fabp3	7303.48261	-0.1534474	0.30088532	-0.5099864	0.61006098	0.82596711
Klk1b9	2.67740618	-0.1535132	0.29093419	-0.5276561	0.59773806	NA
9530036O11I	1.36131383	-0.1535135	0.25868733	-0.5934325	0.55289172	NA
Sf3b3	33975.3468	-0.153744	0.20826908	-0.7381989	0.46039357	0.73086774
Srrm3	14.4228103	-0.1538157	0.42698014	-0.3602408	0.71866707	0.88550762
Lin9	2425.01723	-0.1539971	0.16865803	-0.9130733	0.361204	0.65193633
Slc2a3	104067.734	-0.154015	0.19574211	-0.7868261	0.43138369	0.70688509
Zc3h8	1312.11419	-0.154023	0.17443568	-0.8829788	0.3772477	0.66718742
Fam3a	612.317768	-0.1541085	0.19305985	-0.7982422	0.42472997	0.70307615
Utp3	9026.22951	-0.1541187	0.17561638	-0.8775874	0.38016767	0.66904058
Mcu	1234.66699	-0.1541809	0.1850385	-0.833237	0.40471111	0.68911875
Fut7	1.17343795	-0.15421	0.22078592	-0.6984593	0.48489001	NA
Zfp395	1873.54478	-0.1542517	0.19149131	-0.8055285	0.42051476	0.70082789
Eml1	133.282624	-0.1542651	0.28407177	-0.5430499	0.58709546	0.81313872
Zan	54.5063969	-0.1543285	0.40207946	-0.383826	0.70110742	0.87792265
Gdf9	16.614553	-0.1543335	0.42017431	-0.3673082	0.71338914	0.88418475

Myo16	2.10005515	-0.1543785	0.28234623	-0.5467702	0.5845366	NA
Gm5779	1.8761405	-0.1544873	0.30832667	-0.5010508	0.61633534	NA
Alg9	1928.18779	-0.1545883	0.21897697	-0.7059567	0.48021505	0.74407463
Mum111	292.335935	-0.1546752	0.32584779	-0.4746853	0.63501127	0.83935914
Traf1	70.3652365	-0.1546874	0.37290318	-0.4148192	0.67827424	0.86571263
Car5a	151.70918	-0.154691	0.33276264	-0.4648689	0.64202536	0.84385084
Unkl	493.364422	-0.154713	0.25788187	-0.5999373	0.54854799	0.78905465
Mir7035	1.53285125	-0.1547481	0.29264244	-0.5287959	0.59694701	NA
Rpl35a	22301.5882	-0.1547662	0.23345164	-0.6629475	0.50736418	0.76261673
1700067G17I	5.6015098	-0.1548088	0.37199178	-0.4161618	0.67729158	NA
Farp2	199.046198	-0.1548226	0.27584095	-0.5612749	0.57461016	0.806724
Imp3	3702.79716	-0.1549041	0.2118088	-0.7313394	0.46457185	0.73397175
Map9	912.28895	-0.1550282	0.24726956	-0.6269602	0.53068536	0.77760181
Gpi1	38936.6585	-0.1550768	0.18111751	-0.8562221	0.39187494	0.67991155
Shroom1	24.4593366	-0.155151	0.43225945	-0.3589303	0.7196472	0.88592422
Cdkn1a	12900.9831	-0.1551744	0.14350248	-1.0813361	0.27954762	0.57200243
Zfp341	483.532984	-0.1551764	0.20199862	-0.7682052	0.44236529	0.7159317
Fn3k	3.51229072	-0.1552935	0.3691017	-0.4207335	0.67394969	NA
Ick	1158.0672	-0.1554009	0.20698122	-0.7507972	0.45277472	0.72423137
Syp	52.5130502	-0.1554677	0.34799295	-0.4467553	0.65505173	0.85234189
Dnaja2	21623.6183	-0.1554937	0.17679804	-0.8794992	0.37913068	0.66834881
Gpr125	4686.66521	-0.15564	0.24724409	-0.6294995	0.52902208	0.77604138
A530072M11	16.6636945	-0.1556765	0.42963852	-0.3623431	0.71709567	0.88488973
Adcy1	535.290128	-0.1556848	0.38255959	-0.4069556	0.68404062	0.86895068
Cope	4201.43087	-0.1556849	0.19164316	-0.8123687	0.41658011	0.69846225
Ubxn2a	13899.5598	-0.1557728	0.20091105	-0.7753323	0.43814334	0.71192377
Rbm34	4435.25701	-0.1558877	0.26146945	-0.5961986	0.55104254	0.79097822
Mrfap1	15146.7	-0.1559071	0.16219749	-0.9612176	0.33644278	0.6291874
Gm1968	1.97927288	-0.1559805	0.30629271	-0.509253	0.61057492	NA
Tlr7	5.95959811	-0.1559935	0.40562051	-0.38458	0.70054865	0.87785127
Acadm	14754.5695	-0.1560453	0.22706533	-0.6872266	0.49193994	0.75208002
Uggt1	16580.9261	-0.1561277	0.17658315	-0.8841595	0.37661011	0.66655796
4833420G17I	2406.91481	-0.1561422	0.18470171	-0.8453751	0.39790142	0.68393999
Herc6	87.5033335	-0.1561554	0.38348781	-0.4071978	0.68386273	0.86885207
Pigq	3846.01694	-0.1561749	0.16701225	-0.9351105	0.34973138	0.64198366
Tradd	857.955007	-0.1562755	0.23726163	-0.6586632	0.51011208	0.76433741
Dock1	5756.2077	-0.1564147	0.18767849	-0.8334183	0.40460884	0.68911875
Alkbh3	946.485599	-0.1564445	0.2317149	-0.6751593	0.49957455	0.75725268
Trps1	3290.14665	-0.1564779	0.19469592	-0.8037038	0.42156805	0.70108061
Setd1a	6656.82945	-0.1565407	0.24708276	-0.6335556	0.5263709	0.77414646
Kansl2	2867.32643	-0.1566148	0.18184265	-0.8612657	0.38909174	0.67794934

Abhd16b	3.79652673	-0.1567564	0.39431156	-0.3975446	0.69096591	NA
Eftud2	19303.3391	-0.156793	0.20739435	-0.7560138	0.44964091	0.72235184
Mmp24	56.4234727	-0.1568191	0.39156662	-0.4004915	0.68879454	0.87198339
Rbm43	610.40717	-0.1568195	0.30410733	-0.5156717	0.60608374	0.82418428
Pex10	915.729498	-0.1568482	0.18847098	-0.8322142	0.40528805	0.68918911
Mapk10	9.69379215	-0.1569275	0.43216327	-0.3631208	0.71651465	0.88475417
Zfp706	12422.3764	-0.1569581	0.16651544	-0.9426036	0.34588368	0.63798328
AA543186	20.4053341	-0.1569919	0.41437372	-0.3788654	0.70478784	0.87942876
Tmem192	3120.80219	-0.1569985	0.18388075	-0.8538058	0.3932126	0.6808762
Lonp1	11651.1567	-0.1571281	0.19096448	-0.8228133	0.41061415	0.69316769
Gm16532	13.1869428	-0.1571327	0.43213939	-0.3636159	0.71614488	0.88475132
Rsph9	72.9135425	-0.1572184	0.41056515	-0.3829316	0.7017705	0.87847002
Pde6g	7.24027118	-0.1572675	0.42443873	-0.3705306	0.71098721	0.88254552
Zfp691	315.25927	-0.157407	0.25806528	-0.6099505	0.54189461	0.78505055
Slc15a3	2.04650806	-0.1574193	0.30071955	-0.5234753	0.60064352	NA
Ywhaq	8648.05212	-0.1574503	0.21476254	-0.7331368	0.46347503	0.73321466
Fam53b	3211.19423	-0.1575417	0.21321768	-0.7388771	0.45998161	0.73058666
4933433G15l	18.4702217	-0.1575518	0.42974054	-0.3666208	0.71390189	0.88425449
Arl14ep	3914.7537	-0.1576103	0.16478397	-0.9564662	0.33883675	0.63247406
Btbd8	89.2939554	-0.1576894	0.32778979	-0.4810686	0.63046771	0.83698167
Ccdc130	1053.46134	-0.1577543	0.21974442	-0.7178991	0.47281953	0.73930088
Sult6b1	1704.87026	-0.1578534	0.30563297	-0.5164803	0.60551896	0.82418428
Ddx28	1437.72535	-0.1578645	0.1916235	-0.8238263	0.41003828	0.69303275
Npy1r	4.82052349	-0.1579964	0.38334541	-0.4121517	0.68022826	NA
Xylt2	2233.50147	-0.1580246	0.19475272	-0.8114115	0.41712939	0.69868745
Tusc5	3.18032934	-0.1580372	0.37514662	-0.4212678	0.67355952	NA
Chd9	4801.36256	-0.1580674	0.31223552	-0.506244	0.61268537	0.82786256
Gpn1	5327.26311	-0.1584521	0.19294363	-0.8212352	0.4115123	0.69415639
Hmbox1	862.682489	-0.1586285	0.28072432	-0.5650686	0.57202711	0.80545169
Tppp3	176.422922	-0.158673	0.40403862	-0.3927174	0.69452819	0.87496374
Rasa3	1498.34004	-0.1587007	0.21314836	-0.7445553	0.45654061	0.72705202
Acvrl1	29.646279	-0.1587077	0.40850977	-0.3885041	0.69764301	0.87645821
Mir6912	1.44413271	-0.1587112	0.25722523	-0.6170127	0.53722636	NA
Gm15787	6.06431085	-0.1587262	0.41506456	-0.3824133	0.70215483	0.87871973
Ddx5	70681.4356	-0.1588837	0.1741551	-0.9123116	0.3616047	0.6523567
Coa5	7131.26921	-0.1589928	0.18813742	-0.8450889	0.39806121	0.6840055
Abcb6	1358.75991	-0.1589955	0.1650337	-0.9634126	0.33534052	0.62800397
Fiz1	6196.82445	-0.1590043	0.19610199	-0.8108245	0.41746644	0.69868745
Ctsp2	1881.04513	-0.1590797	0.21820753	-0.7290292	0.46598383	0.73494062
Dnase2b	1.2690372	-0.1591144	0.22221086	-0.7160512	0.47395973	NA
2310043L19F	1.2690372	-0.1591144	0.22221086	-0.7160512	0.47395973	NA

Adck1	1542.12316	-0.1591423	0.21172787	-0.7516362	0.45226987	0.72418129
Epc2	3326.24313	-0.159163	0.20755172	-0.7668595	0.44316504	0.71664974
Tmem235	12.1850495	-0.1591843	0.4322577	-0.3682625	0.71267748	0.88384872
Ift81	1280.49423	-0.1591859	0.20646627	-0.7710019	0.4407058	0.71471643
Bphl	590.475885	-0.159236	0.26459991	-0.6017993	0.54730776	0.78821846
Themis	1.22437881	-0.1593511	0.22003681	-0.724202	0.46894171	NA
E330009J07R	126.430584	-0.1594062	0.32067666	-0.4970932	0.61912336	0.83092413
Hist1h1e	6.9296694	-0.159409	0.41177953	-0.3871223	0.69866567	0.87705439
Ptchd3	94.4947256	-0.1594182	0.41472326	-0.3843965	0.7006846	0.87785127
Tsacc	327.334368	-0.1594266	0.29851429	-0.5340668	0.59329531	0.81706831
Glrp1	37.4662638	-0.1594606	0.4149675	-0.3842724	0.70077655	0.87785127
Prkrip1	1635.5348	-0.1594735	0.18216055	-0.8754557	0.381326	0.67035955
Hes7	3.19563224	-0.1595055	0.37812531	-0.4218323	0.67314742	NA
2210420H20I	3.19563224	-0.1595055	0.37812531	-0.4218323	0.67314742	NA
Hdac10	360.884942	-0.1595368	0.23030189	-0.6927291	0.48847959	0.74951614
Wnt7a	19.8799337	-0.1596378	0.42969319	-0.3715157	0.71025345	0.88198926
Cep120	4987.41152	-0.1596549	0.16814628	-0.9495003	0.34236623	0.63602165
Cnp	1798.88338	-0.1596748	0.18377642	-0.8688538	0.38492708	0.67409922
Zg16	2.91705565	-0.1597792	0.35901692	-0.4450464	0.65628625	NA
Dhx33	4233.89973	-0.1597797	0.20217247	-0.7903139	0.42934446	0.70526416
Lrch3	2223.33661	-0.1597868	0.21487636	-0.7436222	0.45710507	0.72765288
Met	198.443377	-0.1598823	0.29272063	-0.5461941	0.58493255	0.81187844
Dcaf15	3842.96879	-0.1598919	0.19498306	-0.8200295	0.41219931	0.69478771
Fhl3	534.23908	-0.1599026	0.30396794	-0.526051	0.59885275	0.82005546
Abhd3	110.078525	-0.1599135	0.3057076	-0.523093	0.60090954	0.82144376
Asxl1	7976.87792	-0.1599854	0.23057656	-0.6938492	0.48777677	0.74917686
Mpi	3186.18052	-0.16005	0.21159725	-0.7563897	0.44941559	0.72228832
Ech1	4675.61982	-0.1601968	0.21294642	-0.7522869	0.45187855	0.7239274
Mms19	7785.50831	-0.1602603	0.16289519	-0.9838245	0.32520182	0.6188465
Rrp1b	9070.6777	-0.1602722	0.20694209	-0.7744783	0.43864799	0.71227054
Marf1	5961.69317	-0.1603006	0.1763795	-0.9088395	0.36343488	0.65367309
Wdr83	1134.38129	-0.1603373	0.20095396	-0.7978805	0.42493983	0.70330346
Vac14	4701.6697	-0.1603688	0.268735	-0.5967543	0.55067147	0.79097822
Ppfia1	4351.65363	-0.1603744	0.22589441	-0.709953	0.47773326	0.7424775
Trim12c	1303.90645	-0.1603798	0.26996902	-0.5940674	0.55246702	0.79183545
Al467606	971.822178	-0.1603974	0.20026735	-0.8009165	0.42318002	0.70209373
Rccd1	755.218915	-0.1604142	0.20561708	-0.7801597	0.43529689	0.70957043
Gga2	14699.4042	-0.1604626	0.1954256	-0.8210932	0.41159316	0.69421748
Mpnd	4749.74564	-0.1604649	0.22674247	-0.7076967	0.47913365	0.7432908
Pole	12173.9108	-0.16049	0.21926918	-0.7319316	0.46421033	0.73383462
Ngrn	3040.34458	-0.1605907	0.19849513	-0.8090412	0.41849147	0.69931842

Polr2c	5566.89808	-0.1606735	0.17532404	-0.9164374	0.35943753	0.65018613
Lama1	6788.42762	-0.1607755	0.28901559	-0.5562866	0.57801494	0.80768356
Rps2	74309.3182	-0.1607924	0.20409331	-0.7878378	0.43079159	0.70667088
Muc19	3.23584313	-0.1608553	0.32482762	-0.495202	0.62045752	NA
5430416N02I	983.016706	-0.1608702	0.20292658	-0.7927506	0.42792317	0.70472095
Ntn5	30.3859395	-0.1610063	0.42587521	-0.3780598	0.70538615	0.87987969
Cdc45	6089.95185	-0.1610543	0.16411378	-0.9813576	0.32641642	0.61957682
Mir6942	4.01821254	-0.1610674	0.38085542	-0.4229094	0.67236133	NA
Tyw5	1451.62463	-0.1610869	0.1810599	-0.8896886	0.37363314	0.66335985
Rrp1	11534.476	-0.1610966	0.20016894	-0.8048033	0.42093322	0.70091929
Pcdh1	42.5216713	-0.1611467	0.43133604	-0.373599	0.70870268	0.88125982
Ranbp1	25424.3773	-0.1611753	0.16823644	-0.9580284	0.33804846	0.63124298
Arhgap21	5535.56581	-0.1612326	0.23580623	-0.6837502	0.49413293	0.75428042
Kctd10	2177.00945	-0.161244	0.21350004	-0.7552412	0.45010427	0.72275987
Actl10	2.06851614	-0.1613048	0.25153047	-0.6412934	0.5213321	NA
Gm13251	4396.885	-0.1613619	0.23040523	-0.7003398	0.48371515	0.74647754
Alms1-ps2	6.78331057	-0.1613623	0.41529035	-0.3885529	0.69760693	0.87645821
Trip13	5656.48553	-0.1614218	0.15582936	-1.0358882	0.30025431	0.59518862
Rfx2	4533.04525	-0.1614631	0.20502656	-0.7875228	0.4309759	0.70682412
Prodh2	4.93793934	-0.161594	0.40380668	-0.4001766	0.68902647	NA
Rasa4	3395.51007	-0.161599	0.3429348	-0.4712237	0.63748099	0.84125743
Ddx47	6275.15378	-0.161605	0.20405936	-0.791951	0.42838925	0.7047819
2010109I03R	0.9943674	-0.1616642	0.19372601	-0.834499	0.40399988	NA
Notch2	1950.22605	-0.1617687	0.25286977	-0.6397313	0.52234727	0.77084692
Ajap1	3.16337684	-0.1618384	0.37414351	-0.4325569	0.66533667	NA
Zfp568	12728.2479	-0.1619391	0.225062	-0.7195312	0.4718137	0.73859646
Gm16907	9.99227617	-0.1620001	0.43197434	-0.3750224	0.7076438	0.88112271
Fam45a	3723.74132	-0.1620088	0.23058651	-0.7025946	0.48230841	0.74506649
Phactr1	47.6564327	-0.162027	0.34164608	-0.4742541	0.63531875	0.83955149
Polr2e	13783.3556	-0.1621306	0.23704282	-0.6839718	0.49399299	0.75418074
Rbm3	10665.7753	-0.1622871	0.17980571	-0.9025695	0.36675443	0.65694132
Tanc1	7134.10451	-0.1623648	0.26416657	-0.6146302	0.53879896	0.78263241
Zfp276	748.858572	-0.1624376	0.22366941	-0.7262396	0.4676919	0.735927
1700028P14F	2.45984585	-0.1624516	0.35769206	-0.454166	0.64970935	NA
Ecd	5929.98715	-0.1625362	0.17151506	-0.9476498	0.34330779	0.63670595
A230050P20f	958.849959	-0.1628142	0.28435123	-0.5725812	0.5669283	0.80254878
Orc5	9188.70452	-0.1629013	0.15478165	-1.0524585	0.29258926	0.58640437
Ttc13	4414.51563	-0.1629014	0.18501209	-0.8804908	0.37859347	0.66771292
Sugp1	3083.27884	-0.1629706	0.18488038	-0.8814919	0.37805166	0.66762223
Top3a	2658.93829	-0.1630186	0.26256625	-0.6208665	0.53468749	0.77984269
Rnf214	1365.33533	-0.1630381	0.24002137	-0.6792651	0.4969699	0.7560535

2810006K23F	1247.3402	-0.1631404	0.18455876	-0.8839484	0.37672406	0.66660394
Dpm3	642.148112	-0.1631528	0.31115024	-0.5243536	0.60003262	0.82060569
Psm12	16711.2459	-0.1631585	0.16232599	-1.0051284	0.31483504	0.6093449
Ndufv1	8805.75987	-0.1634556	0.17733566	-0.9217303	0.35666929	0.64788348
Mir6362	1.18692099	-0.1634835	0.27619048	-0.5919229	0.55390223	NA
Mapkapk5	4038.89019	-0.1634902	0.15120375	-1.0812573	0.27958269	0.57200243
Rbm17	9797.04234	-0.1636129	0.15069888	-1.0856945	0.27761419	0.56992453
Eif3b	26150.8915	-0.1636896	0.19850376	-0.8246172	0.40958896	0.69284177
Tuba1c	7112.74743	-0.1636963	0.20393039	-0.8027066	0.42214434	0.70127884
Cgn1	634.768292	-0.1637531	0.42265696	-0.3874375	0.69843237	0.87699868
Tsc1	3405.24764	-0.1637684	0.18992836	-0.8622641	0.38854223	0.67760684
Ppp2r3a	904.955321	-0.1638155	0.33773486	-0.4850419	0.62764666	0.8353812
Trit1	2562.97444	-0.1639592	0.17285144	-0.9485558	0.34284659	0.63654819
Stam2	4096.52869	-0.1639839	0.16788639	-0.9767552	0.32869034	0.62222868
2310009A05f	311.843032	-0.1640169	0.29836305	-0.5497224	0.58250978	0.81000763
Skiv2l	2703.11292	-0.1640459	0.24381651	-0.6728253	0.50105846	0.75819404
Rbm15	1815.61487	-0.164052	0.23537489	-0.6969816	0.4858143	0.74775368
Serpinb6a	6078.97697	-0.1641163	0.19074135	-0.860413	0.38956142	0.67794934
Tmem132b	24.6872509	-0.1641331	0.4267589	-0.3846038	0.70053095	0.87785127
Srl	1608.10565	-0.1641524	0.21083195	-0.7785934	0.43621924	0.7101063
Oxtr	4.91611019	-0.1641688	0.39165533	-0.4191665	0.67509443	NA
Aff4	12990.4734	-0.1643187	0.24521165	-0.6701098	0.50278781	0.75933521
Atxn2l	13869.3581	-0.1644013	0.23065809	-0.7127487	0.47600125	0.74134156
Olf1316	2.64859916	-0.1644465	0.22423059	-0.7333812	0.46332598	NA
Atf4	23629.0406	-0.1644796	0.17404149	-0.9450595	0.34462851	0.63773152
Ssb	30119.8396	-0.1645834	0.18019899	-0.9133424	0.36106248	0.65183221
Pdap1	11528.1458	-0.1646137	0.18520182	-0.8888341	0.37409224	0.66364459
Mir6904	3.22136139	-0.1646827	0.37003295	-0.4450488	0.65628449	NA
Gnb2	6936.23802	-0.1647107	0.18916934	-0.8707049	0.38391529	0.67307378
Smg9	1158.6604	-0.164809	0.21715752	-0.7589375	0.44788997	0.72087942
Yrdc	2792.01893	-0.164868	0.17935077	-0.9192488	0.35796543	0.64918023
Raver2	852.544489	-0.1649249	0.32245185	-0.5114713	0.60902106	0.82570937
Snx13	2365.25551	-0.1649862	0.19925545	-0.8280136	0.40766279	0.69149849
Dtwd1	820.831328	-0.1649911	0.22076016	-0.7473773	0.45483584	0.72537711
Clk3	3991.02016	-0.1650201	0.18929367	-0.8717676	0.38333515	0.67244726
Celf1	23727.1802	-0.1650536	0.1928482	-0.8558732	0.39206793	0.6800532
9930014A18f	36.289282	-0.1651064	0.41259423	-0.4001666	0.68903378	0.87214425
Gk2	1.36908361	-0.1652064	0.2625102	-0.6293333	0.5291309	NA
Rab8b	1973.461	-0.1652411	0.18077138	-0.9140891	0.36067003	0.65157755
Osbp18	2155.26986	-0.1652513	0.25738524	-0.6420387	0.52084808	0.76986886
Sox11	609.229927	-0.1652891	0.38681106	-0.4273124	0.66915184	0.86021164

Stk25	5690.74799	-0.165411	0.18427629	-0.8976248	0.36938559	0.65967648
Pgr	55.1137836	-0.1654151	0.42822624	-0.3862796	0.69928958	0.87735184
Slc9b2	6.37861957	-0.1654642	0.35292925	-0.4688311	0.63919033	0.84223427
BC029722	450.649169	-0.1655708	0.20672509	-0.8009227	0.42317637	0.70209373
Gja3	7.04334652	-0.1656061	0.40382069	-0.4100981	0.68173398	0.86734737
Gas2	745.168228	-0.1656306	0.24924635	-0.6645255	0.50635403	0.7617875
Mir762	3.27014165	-0.1656678	0.37187617	-0.4454918	0.65596441	NA
Eri3	2268.6964	-0.1656711	0.16792523	-0.9865769	0.32385012	0.618534
Csnk1a1	21106.0237	-0.1658469	0.17204272	-0.9639865	0.33505268	0.62800397
Psmc5	16380.3465	-0.1659929	0.19422539	-0.8546408	0.39275004	0.68067044
Cbr4	924.040521	-0.1660294	0.26025721	-0.6379435	0.52351046	0.77157293
Cacnb1	705.146562	-0.1660413	0.42718708	-0.3886852	NA	NA
D930016D06	1019.03194	-0.1660836	0.19309326	-0.8601213	0.38972217	0.67799188
Sbk2	35.0968617	-0.1660851	0.42734	-0.3886487	0.69753607	0.87645821
Snrpb	13480.2219	-0.1661069	0.18750999	-0.8858562	0.37569502	0.6654252
1700056E22F	11.6453821	-0.166121	0.43226371	-0.3843047	0.70075262	0.87785127
Stxbp3a	1710.32168	-0.1661283	0.15909834	-1.0441862	0.29639927	0.59122008
Wdr3	9143.34517	-0.1661284	0.17238453	-0.9637081	0.33519229	0.62800397
Vps52	2564.44205	-0.1661547	0.24612935	-0.6750707	0.49963084	0.75725268
Gnai3	11326.8036	-0.166213	0.16648633	-0.9983581	0.31810574	0.61200821
Noxa1	3.69012433	-0.1663267	0.31701557	-0.5246642	0.59981668	NA
Mir7067	2.23269596	-0.1664164	0.28983841	-0.5741696	0.56585305	NA
Upf1	8235.46006	-0.1664231	0.25544325	-0.651507	0.51471924	0.76641122
Pus7	4904.56265	-0.1664795	0.17982977	-0.9257615	0.35456995	0.64618462
Tubgcp3	3277.70792	-0.1665857	0.19868245	-0.8384521	0.40177683	0.68675204
Fam213a	2101.93916	-0.166661	0.32530613	-0.5123204	0.6084268	0.82562526
Det1	707.208473	-0.1667436	0.17682171	-0.9430043	0.34567871	0.63790477
Taf1b	2629.45152	-0.1667583	0.19726607	-0.8453472	0.39791702	0.68393999
Nhp2	12783.7899	-0.1668244	0.23146717	-0.7207262	0.47107801	0.73829186
Brix1	14598.5014	-0.1668845	0.16977835	-0.982955	0.32562957	0.61915114
Pdlim4	246.914039	-0.1668861	0.41581425	-0.4013478	NA	NA
Srsf2	34125.4362	-0.1670727	0.19521546	-0.8558373	0.39208777	0.6800532
Nrbp1	6052.98356	-0.1670956	0.14948645	-1.1177976	0.26365343	0.55541671
Celf4	307.315727	-0.1670966	0.37034778	-0.4511883	0.65185381	0.84981368
BC051142	2.07464158	-0.1671185	0.30984904	-0.5393545	0.5896423	NA
Ddx39	14878.7733	-0.1671348	0.24491935	-0.6824075	0.49498134	0.75502254
Fam174a	459.591846	-0.167171	0.28161704	-0.5936111	0.55277223	0.79205389
Man2c1	3134.95143	-0.1672504	0.17998418	-0.9292505	0.3527593	0.64439796
Proca1	230.181571	-0.1672799	0.26447068	-0.6325084	0.52705473	0.7745763
Rdh9	1.92592764	-0.1672913	0.30985958	-0.5398938	0.58927029	NA
Wwp2	7449.44633	-0.1673055	0.18433491	-0.9076173	0.36408047	0.65406636

4930444P10F	2.49685262	-0.1673893	0.35472682	-0.4718824	0.63701072	NA
Ube2o	5451.27809	-0.1673898	0.18304289	-0.9144839	0.36046264	0.65135423
Psm1	16104.9334	-0.1673981	0.1649569	-1.0147991	0.31020161	0.60486516
Sirt6	1689.5048	-0.1674531	0.21074562	-0.7945745	0.42686107	0.70402942
Gtf2h4	2315.68921	-0.1674583	0.21969214	-0.7622405	0.44591646	0.71907897
Acap2	4380.31356	-0.1675264	0.2310564	-0.7250457	0.468424	0.73622497
Csnk2a2	3791.94726	-0.1675446	0.22265917	-0.7524714	0.45176764	0.72382429
Zfp703	192.116642	-0.1675739	0.39153284	-0.4279946	0.66865505	0.8600411
Rhpn2	2482.1656	-0.1676292	0.27595961	-0.6074409	0.54355836	0.78603486
Ccdc120	791.904347	-0.1677312	0.26265988	-0.6385872	0.52309149	0.77134419
Ncoa6	6767.97468	-0.1678625	0.19323296	-0.8687054	0.38500831	0.67416554
Nup214	7332.44307	-0.1679507	0.26755535	-0.6277233	0.53018522	0.77730841
Mapk1	22573.4133	-0.1680461	0.15587018	-1.0781161	0.28098196	0.5730558
Srd5a3	1041.84112	-0.1680644	0.22113045	-0.7600236	0.44724045	0.72045935
Larp4b	6537.74802	-0.1680883	0.21920489	-0.766809	0.44319509	0.71664974
5830418P13F	101.624612	-0.1680938	0.30623419	-0.548906	0.58306995	0.81058367
Rpl37a	25262.4887	-0.1681634	0.23115228	-0.7275005	0.46691942	0.73559557
2410018L13F	111.984109	-0.1683487	0.41881679	-0.4019627	0.68771148	0.87089586
Pcid2	3431.01797	-0.1684021	0.20777256	-0.8105118	0.41764609	0.69868745
Mif	18266.5998	-0.16842	0.23300262	-0.7228246	0.46978763	0.73764816
Ednra	7.00613146	-0.1684451	0.42088316	-0.4002182	0.68899584	0.87214425
Timm8a1	396.610069	-0.1685163	0.20489138	-0.8224665	0.41081145	0.69330421
Ift74	2490.78836	-0.1685515	0.18119244	-0.9302348	0.35224955	0.64439796
Arid5a	313.724331	-0.1685844	0.27144138	-0.621071	0.53455292	0.77984269
Mast1	280.079672	-0.1686113	0.31668829	-0.5324205	0.59443482	0.81778194
Cbln4	2.60879643	-0.1686385	0.34717622	-0.4857433	0.62714919	NA
Amacr	1007.30867	-0.1686828	0.19271343	-0.8753037	0.3814087	0.67042915
Slc44a3	134.58342	-0.1687395	0.38074194	-0.443186	0.65763122	0.85322343
Gm10782	1.10489216	-0.1687439	0.19748945	-0.854445	0.39285847	NA
Larp1	16149.5181	-0.1688494	0.24028926	-0.7026924	0.48224745	0.74506649
Rnf152	153.477688	-0.1688549	0.35157692	-0.4802788	0.63102915	0.8373696
Clca5	3.05342162	-0.1689095	0.33999675	-0.4967974	0.61933194	NA
Syf2	3821.9416	-0.168967	0.1999051	-0.845236	0.3979791	0.68393999
Lactb2	11181.7083	-0.1689974	0.19949663	-0.8471189	0.39692887	0.68311652
Tspan14	6542.96668	-0.1690121	0.26086346	-0.6478949	0.51705293	0.76793048
Ppil4	4859.35077	-0.1690952	0.15631203	-1.0817799	0.27935034	0.57190325
Prss16	273.596787	-0.1691248	0.31368966	-0.5391467	0.58978562	0.8151223
Pafah1b3	2347.83286	-0.16916	0.25565661	-0.6616687	0.50818359	0.76323954
Ip6k3	3.13309457	-0.1692621	0.33758112	-0.5013968	0.61609192	NA
Mterfd1	2973.76617	-0.1692876	0.15472256	-1.0941365	0.27389513	0.56683453
Yipf6	2410.77533	-0.1693082	0.16223425	-1.0436035	0.29666887	0.59122008

Fgfr1op	4997.84322	-0.1693141	0.15520885	-1.0908794	0.27532595	0.56762479
Lrrc40	7580.9204	-0.169346	0.16537243	-1.0240279	0.30582211	0.60010595
Mettl21e	4.00674726	-0.1694733	0.2723435	-0.6222779	0.53375915	NA
Carf	563.47129	-0.1695052	0.23554536	-0.7196288	0.4717536	0.73859646
Tfdp1	10889.0263	-0.1695109	0.20474481	-0.827913	0.40771976	0.69150943
Aifm3	316.790456	-0.1695875	0.38165733	-0.4443449	0.65679322	0.85275541
Snord72	131.569376	-0.1696048	0.2843622	-0.5964395	0.55088168	0.79097822
Pnpla6	6197.74147	-0.1696284	0.28773021	-0.5895398	0.55549925	0.79471654
Nelfe	3797.20254	-0.1697859	0.18475261	-0.9189903	0.35810064	0.64926373
Cln5	3311.18124	-0.1698764	0.16407542	-1.0353556	0.30050289	0.59541367
Clic4	14562.9046	-0.1698955	0.17458969	-0.9731129	0.33049719	0.62369343
Lias	3316.94872	-0.1699024	0.16495509	-1.0299918	0.30301385	0.59829461
Tnfaip1	3187.03501	-0.1699793	0.20956513	-0.8111051	0.4173053	0.69868745
Mybl2	25969.1568	-0.1702025	0.18450742	-0.9224699	0.35628351	0.64764054
Mrpl21	3437.89721	-0.1702221	0.19058634	-0.8931495	0.37177712	0.66180243
Enpep	3.9615002	-0.1702426	0.38969997	-0.4368557	0.66221601	NA
Xpc	2439.66956	-0.170283	0.17069999	-0.997557	0.31849424	0.61238106
Ltbp3	131.042079	-0.1702963	0.4015276	-0.424121	0.67147759	0.86170733
Txndc9	5838.82618	-0.170313	0.17433895	-0.9769074	0.328615	0.62221988
Zfp239	924.122795	-0.1703767	0.19740124	-0.8630982	0.38808347	0.67726249
Cdk2ap2	1492.1919	-0.1703816	0.24376026	-0.6989719	0.4845696	0.74712338
Rffl	2307.1054	-0.1703834	0.18406203	-0.9256845	0.35460996	0.64618462
Rfx3	550.150743	-0.1704471	0.24282757	-0.7019266	0.48272496	0.74531928
Kcnk12	16.337048	-0.1704534	0.43175401	-0.3947928	0.69299579	0.87461511
Gabpb2	6119.63475	-0.1705593	0.21252014	-0.8025561	0.42223137	0.70128378
Tbc1d10a	2303.34743	-0.1705637	0.20420243	-0.8352678	0.40356694	0.68791729
1110017D15I	2.09947591	-0.1705659	0.31016891	-0.549913	0.58237906	NA
Mphosph9	2458.79488	-0.1706382	0.21601307	-0.7899437	0.42956064	0.70542013
Prx	2536.43345	-0.1706567	0.22737368	-0.750556	0.45291992	0.72429938
Sp3os	278.226453	-0.1706842	0.28416681	-0.600648	0.54807446	0.78881129
Nol7	5757.79732	-0.1707033	0.16010665	-1.0661848	0.28634011	0.57949961
Gm5177	13.0666464	-0.1707379	0.43118933	-0.3959697	0.69212737	0.87435197
lpcef1	1.37944347	-0.1707853	0.22666662	-0.7534648	0.45117064	NA
Gtf3c2	10341.205	-0.1707882	0.21428306	-0.7970213	0.42543866	0.70377154
Podxl2	79.619816	-0.1707999	0.34445737	-0.4958522	0.61999869	0.83138912
Tmc4	336.302656	-0.1708422	0.37669904	-0.4535243	0.65017122	0.84900546
Nup98	13111.1974	-0.1708806	0.23233331	-0.7354978	0.46203641	0.73220505
Actr5	735.737989	-0.1708878	0.23652152	-0.7225041	0.46998463	0.73765956
Ddx54	8482.58471	-0.1709612	0.20718623	-0.8251572	0.40928233	0.69272416
Wrnip1	3062.62427	-0.1709908	0.15070576	-1.1346003	0.25654284	0.54959329
Rnf139	2384.22885	-0.1710236	0.17661169	-0.9683596	0.33286481	0.6260741

Klf12	139.015539	-0.1710649	0.38522134	-0.444069	0.65699269	0.85282916
Pwp2	6168.71835	-0.1712264	0.21703411	-0.7889379	0.43014828	0.70591345
Zfp747	448.694356	-0.1713746	0.20590102	-0.8323157	0.4052308	0.68916712
2410003L11F	1273.59914	-0.1713935	0.19385898	-0.8841141	0.37663461	0.66655796
Rgs16	21.5032453	-0.1714644	0.42472344	-0.4037083	0.68642721	0.87054555
Krt83	4.4752816	-0.1715043	0.37597339	-0.4561608	0.64827433	NA
Rtcb	13825.6958	-0.1716526	0.2025806	-0.8473297	0.39681137	0.68311652
Ubn2	3061.11745	-0.1716882	0.23804654	-0.7212379	0.47076314	0.73825174
Tmem17	328.528958	-0.1716945	0.27797086	-0.6176707	0.53679243	0.78097821
Tmem138	778.054347	-0.1717429	0.20108883	-0.8540648	0.39306908	0.6808735
Tas2r137	0.68223978	-0.1717858	0.19906053	-0.8629826	0.38814705	NA
Ppp6r3	20744.2823	-0.1718237	0.16340324	-1.0515319	0.29301439	0.58676317
Esr1	2.07299198	-0.171849	0.31137044	-0.5519117	0.58100885	NA
Pus3	1716.11257	-0.1718505	0.18228312	-0.942767	0.34580009	0.63790477
1110002L01F	1109.93226	-0.1718694	0.25511509	-0.6736935	0.50050621	0.75785125
9430020K01F	1352.14313	-0.1719492	0.29277862	-0.5873011	0.55700153	0.7958333
Gskip	496.852319	-0.1719858	0.22932867	-0.7499534	0.45328276	0.72431158
Arhgef11	2407.42443	-0.1720145	0.21226212	-0.8103872	0.41771769	0.69871225
Hid1	286.558193	-0.1720753	0.24220163	-0.7104632	0.47741696	0.74228266
Myo9a	3844.41725	-0.1721233	0.22824574	-0.754114	0.4507808	0.7229937
Il17f	36.5874486	-0.1721866	0.4316139	-0.3989368	0.68993981	0.87286479
Pgbd1	248.371384	-0.1721938	0.2745926	-0.6270884	0.53060128	0.77760181
Kpna3	14390.5282	-0.1723176	0.18927698	-0.9103991	0.36261206	0.65337545
Hnf1a	432.350988	-0.1724279	0.20911304	-0.8245677	0.40961704	0.69284177
4930503E24F	9.18618553	-0.1724338	0.4189068	-0.411628	0.68061212	0.86680489
Samsn1	5.43744697	-0.1724464	0.40123221	-0.4297921	0.66734688	NA
Cdr2	1957.67022	-0.1725417	0.1618987	-1.0657388	0.28654175	0.57968137
Cpvl	324.818821	-0.1726959	0.41373787	-0.4174042	0.67638277	0.864488
Rad1	3463.05263	-0.1727445	0.1966562	-0.8784085	0.37972209	0.66881593
Sos1	4091.34715	-0.1728209	0.23300182	-0.741715	0.45826005	0.72889455
Ppp2r2c	5757.57567	-0.1728363	0.19395947	-0.8910947	0.37287835	0.6627007
Slc29a2	962.941521	-0.1729579	0.21751011	-0.795172	0.42651347	0.70402942
4932412D23I	52.6459467	-0.1729677	0.40600073	-0.4260281	0.67008739	0.86084502
Wdr73	2979.30333	-0.1730089	0.17635161	-0.9810452	0.32657048	0.61970683
Zfp607	950.393867	-0.1731001	0.19053985	-0.9084721	0.36362885	0.6537332
Trp53bp1	6795.59055	-0.1731475	0.21405669	-0.8088861	0.41858065	0.69932829
Chaf1a	6985.39075	-0.1732785	0.20197378	-0.8579258	0.39093342	0.67903559
Mif4gd	3758.08758	-0.1733032	0.24797108	-0.6988846	0.48462416	0.74712338
Hcfc1	24267.3725	-0.1734383	0.25671991	-0.6755934	0.4992988	0.75708397
Ckmt2	0.99391635	-0.1735141	0.24015994	-0.7224939	0.46999087	NA
Dusp19	573.597525	-0.1735291	0.21573885	-0.804348	0.42119603	0.70099991

Pnpla8	3165.67843	-0.1735906	0.19574791	-0.8868068	0.37518295	0.66497265
Mrps27	4577.66862	-0.1736547	0.18572724	-0.9349988	0.34978894	0.64198366
Gpt2	9744.43445	-0.1736705	0.17300851	-1.0038265	0.31546224	0.6098649
Ctnnb1	59280.431	-0.1736851	0.14376628	-1.2081076	0.22700587	0.51714743
Zfp146	2377.48838	-0.1736901	0.16614682	-1.0454012	0.29583756	0.59051371
Zcchc7	2092.44548	-0.1738035	0.22308761	-0.7790817	0.43593162	0.70993534
Mvp	3385.06639	-0.1738297	0.25177564	-0.6904151	0.48993316	0.75093147
Ppp2ca	22126.9286	-0.1738472	0.1607475	-1.0814926	0.27947807	0.57200243
Sfxn1	6626.77637	-0.1738903	0.20649667	-0.8420974	0.39973343	0.68491125
Pigt	4370.19927	-0.173931	0.1792237	-0.9704688	0.33181285	0.62515407
Lrrc34	4522.17297	-0.1739324	0.24873289	-0.6992738	0.48438095	0.74712338
Wdr20	1240.68322	-0.1739634	0.18826859	-0.9240169	0.3554775	0.64710105
D030028A08	117.339333	-0.1739654	0.30038158	-0.579148	0.56248932	0.79942162
Mettl9	3153.9575	-0.1741942	0.1777337	-0.9800856	0.32704386	0.62039456
Slc26a11	851.563621	-0.1741962	0.28115598	-0.6195713	0.53554009	0.7803571
Ikzf4	80.2081511	-0.1742192	0.35156919	-0.4955473	0.62021383	0.83138912
Osbpl10	1559.20133	-0.1743079	0.22366889	-0.7793124	0.43579571	0.70987111
Atp6ap2	8159.45196	-0.1743615	0.17289977	-1.008454	0.31323658	0.60787966
Smarca4	16859.2716	-0.1744536	0.22766848	-0.7662617	0.44352063	0.71689626
Zfp772	482.909914	-0.1746899	0.21958896	-0.7955314	0.42630444	0.70402942
Phb2	17232.222	-0.1747604	0.20856308	-0.837926	0.40207226	0.68675204
Arcn1	19913.0506	-0.1747728	0.25872602	-0.675513	0.49934988	0.75708397
Lig3	7770.26847	-0.1747813	0.19214234	-0.9096451	0.3630097	0.65337545
Ctnnbip1	1337.14227	-0.1747951	0.1739624	-1.0047869	0.31499948	0.6093449
Cep89	2273.2309	-0.1749098	0.18355085	-0.9529228	0.3406292	0.63407735
Zfp830	2366.54013	-0.174932	0.18144196	-0.9641209	0.33498529	0.62800397
2700062C07f	1275.4331	-0.1750387	0.19836895	-0.8823894	0.37756625	0.6672936
Mettl3	2574.18158	-0.1751223	0.16971235	-1.0318772	0.30212964	0.59723123
Ncoa2	4209.70679	-0.1751635	0.24779945	-0.7068762	0.4796434	0.74381078
Esco1	3035.00083	-0.1752127	0.20901523	-0.8382774	0.40187494	0.68675204
Ccdc142	237.335267	-0.1752608	0.27115643	-0.6463456	0.51805557	0.76808698
Plgrkt	1173.03567	-0.1754265	0.21626634	-0.8111594	0.41727416	0.69868745
Nsa2	8163.06372	-0.1754863	0.18163808	-0.9661318	0.33397822	0.62718213
Lamb3	72.1408061	-0.1755095	0.40973	-0.428354	0.66839343	0.85987643
Champ1	5270.45192	-0.1755407	0.25161683	-0.6976511	0.48539544	0.74773497
Gm5640	0.70432104	-0.1756715	0.20106397	-0.8737093	0.38227657	NA
Hist1h2ad	0.70432104	-0.1756715	0.20106397	-0.8737093	0.38227657	NA
Cd248	32.5592028	-0.1757208	0.41837571	-0.4200072	0.67448021	0.86375836
Fga	9.27844637	-0.1757348	0.42460399	-0.4138792	0.67896258	0.86604267
Pex11a	199.902815	-0.1757493	0.27186419	-0.64646	0.5179815	0.76808698
Mcm2	31274.9715	-0.1757579	0.19260199	-0.9125448	0.36148202	0.65221104

Vps37c	769.030944	-0.1757613	0.22246045	-0.7900791	0.4294816	0.70541491
Pik3c3	3272.67825	-0.1758573	0.17840352	-0.9857277	0.32426673	0.618534
Csrnp2	1722.44897	-0.1758692	0.24915411	-0.7058652	0.48027195	0.74407463
Idua	661.16778	-0.1758873	0.23332428	-0.7538319	0.45095019	0.7229937
Alg8	974.179927	-0.1758893	0.30500617	-0.5766744	0.56415941	0.80062448
Pttg1ip	7339.52739	-0.1759058	0.18379143	-0.9570948	0.33851943	0.63197066
Rrp36	2409.73432	-0.17596	0.18417855	-0.9553771	0.33938705	0.63290658
Gtpbp10	2325.08556	-0.1761974	0.21407161	-0.823077	0.41046422	0.69313511
Rpl13a	114555.373	-0.1762195	0.2473708	-0.71237	0.47623568	0.74148389
Abcf2	14700.0369	-0.1763221	0.17196249	-1.0253523	0.30519698	0.59971168
Cog4	7891.33357	-0.1763253	0.14950671	-1.1793802	0.23824681	0.53019122
Serpina1b	1.3597379	-0.1763593	0.22669088	-0.7779724	0.43658528	NA
Las1l	9614.03375	-0.1764816	0.15304819	-1.1531115	0.2488646	0.54210582
Wdr70	3001.32139	-0.1765104	0.21240789	-0.8309973	0.40597517	0.68991262
Cpsf7	5511.72199	-0.1765351	0.21171765	-0.8338231	0.40438066	0.68892678
BC089597	10.7238804	-0.1765778	0.42810868	-0.4124602	0.68000212	0.86642486
Cep97	1722.3697	-0.1766251	0.21409223	-0.8249955	0.40937414	0.69272876
BC052040	2641.93382	-0.1767185	0.19364249	-0.9126019	0.36145196	0.65221104
AI837181	1180.37525	-0.1767844	0.19225077	-0.9195513	0.35780731	0.64904484
Ganc	383.218582	-0.1768116	0.21177158	-0.8349167	0.40376461	0.68810339
Tsnaxip1	15.5970791	-0.176822	0.42907314	-0.4121023	0.68026445	0.86647494
Tmem104	718.72689	-0.1768226	0.2931332	-0.6032157	0.54636518	0.78759037
Sult2b1	166.712998	-0.1768917	0.33621147	-0.5261323	0.59879628	0.82005546
Bcl2l2	1997.3688	-0.1768951	0.25781853	-0.6861227	0.49263575	0.75285423
9230112J17R	1.69782473	-0.1768978	0.2987433	-0.5921398	0.55375698	NA
2410004N09I	1867.79446	-0.1769482	0.24601076	-0.71927	0.47197459	0.73859646
Bach1	5220.32565	-0.1769636	0.17293282	-1.0233086	0.30616197	0.60046978
Rgs14	43.536261	-0.1770264	0.40016955	-0.4423785	0.65821535	0.85363246
Mettl4	1954.63106	-0.1772069	0.19499549	-0.9087742	0.36346931	0.65367309
Trabd2b	2.36397156	-0.177211	0.33069005	-0.5358824	0.59203983	NA
Recql5	2106.99827	-0.1772263	0.1963903	-0.9024186	0.36683452	0.65698994
Mir7674	3.19194595	-0.1773019	0.34656289	-0.5116009	0.60893034	NA
Fchsd1	410.401714	-0.1773113	0.24947777	-0.7107298	0.47725167	0.74223918
Naa16	3824.15551	-0.1773157	0.20096833	-0.8823068	0.3776109	0.6672936
Adrb2	250.074213	-0.1773178	0.2331346	-0.7605814	0.44690713	0.72034128
Nolc1	23186.2224	-0.1774335	0.22293706	-0.7958904	0.42609576	0.70402942
Ptprt0s	338.515384	-0.1774909	0.38924264	-0.4559904	0.64839691	0.84847024
Surf2	2005.41579	-0.1775232	0.16213082	-1.0949378	0.27354391	0.56657339
Ptbp1	39707.6112	-0.1775938	0.20954646	-0.8475149	0.39670817	0.68311652
Gdap1	17.8082082	-0.1776536	0.43213906	-0.411103	0.68099704	0.86700223
Abcf1	11918.8693	-0.1776847	0.20129368	-0.8827137	0.377391	0.66728175

Ndufb11	5918.94236	-0.1776994	0.20182904	-0.8804451	0.37861826	0.66771292
Gars	30984.4428	-0.1777447	0.1683411	-1.0558603	0.29103203	0.58476633
Ifitm2	15164.5814	-0.1778026	0.24428178	-0.7278586	0.46670015	0.73543831
Trmt61a	1636.39571	-0.1779534	0.20706284	-0.8594172	0.39011038	0.67839532
Hnmt	2.7636383	-0.1780104	0.22708627	-0.7838889	0.43310529	NA
Btnl6	1.45048343	-0.1781052	0.26152833	-0.6810167	0.49586091	NA
Akap17b	1162.75555	-0.1781079	0.21993794	-0.8098097	0.41804955	0.69896008
Ctu1	823.666107	-0.1781266	0.19408591	-0.9177719	0.35873827	0.64978295
Fpgs	5231.11572	-0.1782128	0.19440358	-0.9167154	0.35929177	0.65018613
Trmt1	6234.29799	-0.1782206	0.21132493	-0.8433486	0.39903349	0.68473712
Tceb3	3876.9521	-0.1782381	0.18850591	-0.9455306	0.34438805	0.63755825
Vmn2r-ps54	2.26446552	-0.1782405	0.34247785	-0.5204437	0.60275433	NA
Slc9a5	408.431588	-0.1783408	0.25039173	-0.7122474	0.47631162	0.74152787
Rbm27	7741.6654	-0.1788006	0.2305336	-0.7755947	0.43798834	0.7119144
Hist1h4k	3.64707057	-0.1788115	0.38603924	-0.4631952	0.64322445	NA
Ndst2	568.484055	-0.1788174	0.22490641	-0.7950749	0.42656995	0.70402942
Id1	112.125972	-0.1788184	0.3223387	-0.554753	0.5790636	0.80813229
Npr2	85.3147333	-0.1788232	0.36435481	-0.490794	0.62357213	0.83265488
Ago2	9808.96667	-0.1789281	0.33893762	-0.5279085	0.59756283	0.81967888
Fnbp1	4028.00872	-0.1789859	0.18595133	-0.9625417	0.33577757	0.62836064
Prss21	0.72364922	-0.1789872	0.20275041	-0.8827959	0.37734657	NA
Aadacl3	2.29174919	-0.1791547	0.28582709	-0.6267939	0.53079437	NA
Npsr1	3.1994059	-0.1792176	0.30615847	-0.5853751	0.55829551	NA
Cbln3	17.1576325	-0.1792848	0.43172983	-0.4152709	0.67794361	0.86555439
Tead2	9628.00739	-0.1793709	0.19327108	-0.9280796	0.35336627	0.6449764
Rab3gap1	3241.34894	-0.1794474	0.16575609	-1.0825992	0.27898635	0.5713085
Hectd3	1957.59961	-0.1794866	0.2007814	-0.8939402	0.37135387	0.66164325
Drap1	3964.79457	-0.1797337	0.19577184	-0.9180776	0.35857825	0.64968546
Tnk2os	2.39667801	-0.1797843	0.2940879	-0.6113285	0.54098211	NA
Anxa11	4663.61564	-0.1799019	0.19048867	-0.9444232	0.34495341	0.63773152
Ctu2	2182.12323	-0.1799784	0.18986657	-0.9479202	0.34317006	0.63670595
Gm3604	1608.02754	-0.1800124	0.28839876	-0.6241787	0.53251021	0.7787064
Dgkd	5694.15922	-0.1801189	0.23046146	-0.7815575	0.43447469	0.70860901
Ptges3	23385.1321	-0.1801837	0.17805855	-1.0119349	0.31156916	0.60623388
Gpr19	1261.91537	-0.1802396	0.21841101	-0.8252312	0.40924037	0.69272416
Clasrp	2643.4584	-0.1802729	0.17961492	-1.0036635	0.31554082	0.60989929
Smyd5	6591.16484	-0.1803108	0.18369806	-0.9815609	0.32631621	0.61957682
1700052N19I	3671.304	-0.1803159	0.15792627	-1.1417727	0.25354852	0.54626394
Csde1	33899.2801	-0.1804062	0.16018501	-1.1262366	0.26006539	0.55222808
Arhgef15	526.839052	-0.1804523	0.28208699	-0.6397045	0.52236472	0.77084692
Tns3	11165.4668	-0.1804808	0.29826401	-0.6051042	0.54510979	0.78658275

Cers2	4471.5538	-0.1805686	0.22464268	-0.8038035	0.42151049	0.70108061
Gm6559	4.00513848	-0.1806684	0.37984504	-0.4756372	0.63433289	NA
Ttc28	1883.13577	-0.180719	0.32402754	-0.5577273	0.57703059	0.80734073
Lztf1	1446.47745	-0.1807849	0.19792951	-0.91338	0.36104271	0.65183221
Csnk1g2	6282.02105	-0.1807894	0.18402664	-0.9824088	0.32589852	0.61926293
Mcm7	30982.6475	-0.1807951	0.17832549	-1.0138489	0.31065486	0.60523599
Casp9	3092.43936	-0.1808059	0.17658454	-1.0239056	0.30587988	0.60014357
Polr3f	3254.99113	-0.180809	0.20485737	-0.8826092	0.37744744	0.66728175
Lmtk2	4811.03972	-0.1808372	0.224993	-0.803746	0.4215437	0.70108061
Pfkfb4	316.342741	-0.1809135	0.29352945	-0.6163384	0.5376712	0.7813592
Pvt1	721.202422	-0.1809136	0.19101548	-0.9471149	0.34358021	0.63690736
Bnip1	813.676153	-0.1811063	0.19897537	-0.9101947	0.36271982	0.65337545
Setd8	7415.38403	-0.1811223	0.21103104	-0.8582734	0.3907415	0.67903559
Ceacam18	9.69465538	-0.1812064	0.43159977	-0.4198482	0.67459637	0.8637833
Matn2	94.688532	-0.1813177	0.29368764	-0.6173827	0.53698233	0.78108804
Mettl18	1154.65694	-0.1813638	0.19388383	-0.935425	0.34956933	0.64196418
Cyld	1884.50437	-0.1814332	0.20707631	-0.8761659	0.38093984	0.66990789
Zfp426	1286.92051	-0.1816342	0.170699	-1.0640612	0.28730099	0.58077783
Hmg20b	2523.36572	-0.1816408	0.20231763	-0.8978004	0.36929199	0.65967648
Ccdc12	1589.86928	-0.1816417	0.20975124	-0.8659862	0.38649773	0.67532879
Rybp	4542.59138	-0.1816439	0.2247959	-0.8080394	0.41906791	0.69973018
Gm6890	1.0159976	-0.1817486	0.24413812	-0.7444498	0.45660439	NA
Cldn23	1.0159976	-0.1817486	0.24413812	-0.7444498	0.45660439	NA
Grid1	117.306702	-0.1817839	0.41909689	-0.4337514	0.66446898	0.85719825
Nbeal1	2153.32317	-0.1818239	0.30211209	-0.6018424	0.54727905	0.78821846
Gm11992	51.4035045	-0.1819267	0.35550659	-0.5117393	0.60883347	0.82562526
Ccdc147	2.89371404	-0.1820415	0.33091989	-0.5501075	0.58224565	NA
Prdx2	17432.3291	-0.1820559	0.21153185	-0.860655	0.38942808	0.67794934
Anxa4	4621.84116	-0.182069	0.26528635	-0.6863111	0.49251692	0.7528141
Glb1	10476.6101	-0.1822098	0.25558738	-0.7129059	0.47590399	0.74133857
Sipa1l3	3110.84266	-0.1822574	0.24546749	-0.7424911	0.45778985	0.72851923
Rpf1	5216.50426	-0.1823116	0.1562769	-1.1665931	0.24337472	0.53577799
Ppip5k2	6228.32995	-0.1824298	0.23368898	-0.7806519	0.43500724	0.70924697
Cacna2d1	386.502293	-0.1825285	0.36547142	-0.4994331	0.61747432	0.83032065
Pafah1b2	5639.03797	-0.1826584	0.16169902	-1.1296195	0.2586366	0.55112352
Rasal2	1836.05934	-0.1826641	0.20745419	-0.8805035	0.37858664	0.66771292
Vmn2r90	2.28536736	-0.1826741	0.22082805	-0.8272233	0.40811051	NA
Slc26a4	6.02365259	-0.1828032	0.41215393	-0.4435314	0.6573814	0.85307902
Uhrf1	45395.3564	-0.1828307	0.1666058	-1.0973852	0.27247305	0.56572838
Picalm	15240.0234	-0.1828567	0.15664964	-1.1672971	0.24309039	0.5356048
Ap3m1	5243.96073	-0.182972	0.17539134	-1.0432217	0.29684563	0.59122008

Man2a2	1680.01646	-0.1829966	0.22304883	-0.8204329	0.41196937	0.69453398
Lsm12	3735.17965	-0.1832043	0.18393264	-0.9960403	0.31923057	0.61303091
Mcm3	38256.2095	-0.1832188	0.17744112	-1.032561	0.30180937	0.59697807
Serpinc1	42.1394473	-0.1832871	0.4121407	-0.4447198	0.65652224	0.85271673
Utp6	12650.6924	-0.1834463	0.19497805	-0.9408563	0.34677851	0.63902745
Hrsp12	1947.87507	-0.1836483	0.20681105	-0.8880005	0.37454047	0.66421244
Rint1	1339.30927	-0.1837004	0.22877401	-0.8029776	0.42198768	0.70127884
Slitrk4	3.73088086	-0.1838046	0.3813774	-0.4819494	0.62984187	NA
Dlst	7886.68314	-0.183806	0.14184217	-1.2958487	0.19502761	0.47791907
Sfn10-ps	185.484174	-0.183887	0.41357202	-0.4446313	0.65658625	0.85272865
Msh3	3539.99189	-0.1839114	0.19240136	-0.9558737	0.33913605	0.63270101
Zc3h12c	533.628701	-0.1839544	0.31355683	-0.5866701	0.55742528	0.7960074
Msantd4	4263.44679	-0.1839612	0.16694066	-1.1019553	0.27048109	0.5637571
Stxbp5	588.415864	-0.1839645	0.28042744	-0.6560146	0.5118147	0.76528308
Rnf4	22939.0701	-0.18403	0.14152963	-1.3002931	0.19350054	0.47612768
Cnpy3	3595.83522	-0.1841256	0.18828747	-0.977896	0.32812574	0.6217477
Espn	235.879361	-0.1841353	0.2455246	-0.749967	0.45327458	0.72431158
Tmem134	1510.00682	-0.184187	0.22374404	-0.8232042	0.41039186	0.69309338
Pibf1	1480.60998	-0.1842168	0.1787494	-1.0305868	0.30273464	0.59790613
Jmjd8	713.901197	-0.1842649	0.23058542	-0.7991176	0.42422223	0.70280233
Cbln2	3.34858703	-0.1842722	0.30170696	-0.6107656	0.54135474	NA
Zfp811	848.35686	-0.1842913	0.19019897	-0.9689397	0.33257529	0.62583232
Ar	4.29864059	-0.1842958	0.39277212	-0.4692182	0.63891368	NA
Cpsf2	9585.43435	-0.1843033	0.176515	-1.0441227	0.29642862	0.59122008
Rad50	6317.3951	-0.1843237	0.21276919	-0.8663082	0.38632117	0.6752479
Ankrd11	16784.603	-0.1843279	0.29147564	-0.6323957	0.52712837	0.77457935
Eed	14869.5209	-0.1843327	0.16129561	-1.142825	0.25311124	0.54607863
3300002I08R	45.5657956	-0.1843602	0.35711045	-0.5162553	0.60567608	0.82418428
Usp39	6764.34778	-0.1844867	0.15929312	-1.1581588	0.24679924	0.53964777
Itgb1	20419.7945	-0.1845522	0.21104597	-0.8744646	0.38186526	0.67077677
Nek8	1046.80298	-0.1845608	0.26244033	-0.7032487	0.4819008	0.74500838
Srd5a1	556.572024	-0.1845846	0.2359973	-0.782147	0.43412817	0.70858066
Gm9079	48.7326788	-0.1846108	0.37028989	-0.4985576	0.61809107	0.83039356
Dscr3	4039.2173	-0.1846262	0.18291	-1.0093828	0.31279107	0.60734349
C77080	8734.83795	-0.1846422	0.25255345	-0.7311014	0.46471721	0.73405965
Ccdc153	2.0027966	-0.1846765	0.27914115	-0.6615884	0.50823507	NA
Polr1c	8064.21565	-0.1847631	0.18460915	-1.0008338	0.31690718	0.611518
Pfkfb1	880.4437	-0.1847722	0.27328896	-0.6761057	0.49897355	0.75696826
Athl1	1335.65239	-0.1848336	0.25511953	-0.7244981	0.46876	0.73662962
2510009E07F	1339.8004	-0.1848485	0.36335717	-0.5087239	0.6109458	0.82651745
Alg10b	3326.72569	-0.1849489	0.28564656	-0.6474745	0.5173249	0.76797266

Scrib	6551.41841	-0.1849602	0.20039112	-0.9229961	0.35600924	0.64764054
Stk40	3145.07254	-0.1850418	0.20510585	-0.9021773	0.36696269	0.6571438
Nhlrc2	2576.12525	-0.1851498	0.17983355	-1.0295622	0.30321557	0.59849162
Decr1	1216.24151	-0.185317	0.25561148	-0.7249949	0.46845515	0.73622497
Ugcg	5596.24558	-0.1853203	0.1826578	-1.0145762	0.31030788	0.60486516
Lsg1	7290.57437	-0.1853652	0.16654946	-1.1129737	0.26571973	0.55776375
Afg3l1	6415.54215	-0.1853872	0.1734042	-1.0691042	0.28502273	0.57788637
Bbs10	498.086477	-0.1854188	0.21542262	-0.860721	0.38939173	0.67794934
Creb1	3951.00242	-0.185549	0.19583351	-0.9474835	0.34339244	0.63671108
Barx2	5.39034615	-0.1856667	0.37312022	-0.4976057	0.618762	NA
Tmem66	2515.34005	-0.1858372	0.20877295	-0.8901401	0.37339068	0.66321123
Htr4	2.41613439	-0.185864	0.32448523	-0.5727965	0.56678247	NA
Rp9	2089.37283	-0.1859072	0.18059215	-1.0294314	0.303277	0.59849162
E030044B06F	4.81198464	-0.1859352	0.35498909	-0.5237773	0.60043345	NA
Creld1	1833.24662	-0.1860966	0.19728997	-0.9432644	0.34554571	0.63779826
Gm12070	234.599339	-0.1862581	0.25301591	-0.7361518	0.46163831	0.73179789
Eci2	2840.98065	-0.1863376	0.20226321	-0.9212628	0.35691325	0.64802778
Lrrc55	1.07673522	-0.1863421	0.24443493	-0.7623384	0.44585806	NA
Trim34b	51.5754145	-0.186396	0.42857485	-0.4349205	0.66362013	0.85671232
Mgea5	15216.3866	-0.1865486	0.20040058	-0.9308784	0.35191646	0.64414464
Nfxl1	2651.80444	-0.186588	0.18531638	-1.0068621	0.31400105	0.60841899
Pcdhb22	8.39570125	-0.1866033	0.42734391	-0.4366584	0.66235914	0.85619416
Slc22a4	3.86442737	-0.1867443	0.3368846	-0.5543273	0.57935484	NA
Rexo4	3315.06467	-0.1867987	0.15948632	-1.1712519	0.24149753	0.53406259
Lsm7	1899.21666	-0.1870559	0.21433162	-0.8727405	0.38280454	0.6718196
Ide	17494.2048	-0.1870825	0.16295237	-1.1480811	0.25093507	0.54455641
Prss38	102.100829	-0.1870996	0.36608338	-0.5110845	0.60929186	0.82590648
Txn2	6606.33012	-0.1871321	0.19774306	-0.9463395	0.34397543	0.63732661
Nps	2.7455632	-0.1871676	0.29639945	-0.6314707	0.52773278	NA
Ahcy	5032.10378	-0.1871725	0.1790549	-1.045336	0.29586772	0.59051371
Rfxap	712.086885	-0.1871895	0.23874049	-0.784071	0.43299845	0.70818326
Slc19a1	1062.05927	-0.1872825	0.17939654	-1.0439581	0.29650476	0.59122008
Trim32	1590.85737	-0.1873107	0.16382679	-1.1433461	0.25289494	0.54598821
Lamp3	14.0432784	-0.1873686	0.42944082	-0.4363082	0.66261312	0.85619416
Tjap1	3315.23911	-0.187531	0.22156218	-0.8464033	0.3973278	0.68347116
Kdelr1	4819.38917	-0.1875428	0.17628353	-1.0638701	0.28738757	0.58086354
Snora17	36.9391093	-0.1875529	0.39300748	-0.4772248	0.63320205	0.83875001
Relb	2094.95353	-0.1877497	0.23991602	-0.7825644	0.43388296	0.70858066
Ccdc151	154.677704	-0.1877873	0.29029831	-0.6468771	0.51771148	0.76807205
Hpgds	3.89963042	-0.187837	0.39318971	-0.4777261	0.63284513	NA
lws1	7245.42673	-0.187868	0.19075656	-0.9848576	0.32469404	0.61878886

Cmah	1.55741055	-0.1878972	0.2687236	-0.6992209	0.48441397	NA
Npr3	928.982441	-0.1880094	0.34380268	-0.5468528	0.58447988	0.81153987
Pomt1	2057.65169	-0.1882511	0.18484356	-1.0184347	0.30847141	0.60292433
Bzrap1	51.699416	-0.1882777	0.39321427	-0.4788169	0.63206886	0.83803418
Slc36a1os	2.11249293	-0.1884484	0.3103567	-0.6071995	0.54371854	NA
9530026P05F	11.9565811	-0.1884609	0.43073214	-0.4375362	0.66172252	0.85575442
Nadk	9265.19145	-0.1885271	0.14579599	-1.2930885	0.19598047	0.47904626
Oscar	19.9666156	-0.1885276	0.4214895	-0.4472889	0.65466645	0.85212302
Tomm34	5212.74292	-0.1885636	0.17358534	-1.0862875	0.27735182	0.56958658
St8sia2	16.8718399	-0.188598	0.42960541	-0.4390028	0.66065953	0.8552332
S100g	16.5555814	-0.1886274	0.35649415	-0.5291177	0.59672377	0.81955304
Wdr61	6742.41461	-0.1886843	0.16874779	-1.118144	0.26350552	0.55541671
Rbbp8nl	1.99619669	-0.1886898	0.31544522	-0.5981699	0.54972658	NA
Gm19583	12.9653249	-0.1887264	0.43226473	-0.4365992	0.66240203	0.85619416
Fopnl	2621.16817	-0.1887529	0.18043542	-1.0460968	0.29551635	0.59015984
Mphosph8	14417.3078	-0.188837	0.17884877	-1.0558471	0.29103807	0.58476633
Tekt1	725.06858	-0.1888887	0.43054063	-0.4387244	0.66086124	0.85535191
Cenpl	1711.9396	-0.188898	0.16727783	-1.1292469	0.2587937	0.55112352
Nfil3	393.016262	-0.1889103	0.28703015	-0.6581549	0.51043858	0.76464545
Pop4	1881.89168	-0.1889724	0.21202621	-0.8912692	0.37278475	0.66269681
Upk3bl	46.761819	-0.1889957	0.41395109	-0.4565654	0.64798346	0.84807194
Dpy19l3	930.392842	-0.189109	0.27459368	-0.6886866	0.49102051	0.75185702
Gapdh	89106.7071	-0.1892007	0.19411887	-0.9746639	0.32972698	0.62303576
Exosc3	2112.61934	-0.1892052	0.17696414	-1.0691726	0.28499191	0.57788637
Rdh8	1.02277596	-0.189291	0.24489597	-0.7729445	0.43955525	NA
Krt5	3.2450036	-0.1893565	0.33774027	-0.5606572	0.57503122	NA
Esyt3	744.325264	-0.1894792	0.19633994	-0.9650567	0.33451641	0.62758652
Il17rc	444.474035	-0.1895231	0.23952954	-0.7912307	0.42880937	0.7048133
Sap30	5497.04494	-0.1895387	0.16063477	-1.1799356	0.23802585	0.53000285
Umodl1	4.61846431	-0.1897411	0.40416011	-0.46947	0.63873371	NA
Sirt5	259.228417	-0.1897598	0.28533216	-0.6650487	0.50601932	0.76151896
Zfp563	650.976489	-0.189765	0.19860312	-0.9554984	0.33932571	0.63286809
Tbc1d16	1360.45818	-0.189802	0.19857997	-0.9557962	0.33917523	0.63270101
Ndufs1	12808.9024	-0.1898344	0.16442976	-1.1545014	0.24829467	0.54162653
Zbed5	1034.81974	-0.1898413	0.19490605	-0.9740143	0.33004944	0.62344049
Slc16a5	257.822847	-0.1898703	0.21222255	-0.8946756	0.37096051	0.6613329
Kif3c	934.874983	-0.189881	0.22653509	-0.838197	0.40192006	0.68675204
Clint1	6076.10517	-0.1898882	0.21422972	-0.8863767	0.37541456	0.66530733
Krit1	3672.70506	-0.1899696	0.20479639	-0.9276023	0.35361392	0.64520848
Hist1h4j	1.75140661	-0.1900269	0.30145562	-0.6303643	0.52845626	NA
Pitpnb	8121.21916	-0.1901544	0.16219139	-1.1724074	0.24103353	0.53349166

Pwwp2a	3829.80011	-0.1901817	0.1662932	-1.1436529	0.2527676	0.54598821
Tmem232	1.95278895	-0.1906457	0.33162396	-0.5748852	0.56536891	NA
Rdx	16593.8961	-0.1906512	0.19706219	-0.9674672	0.33331055	0.62653359
Chchd5	2365.94793	-0.1906888	0.19311541	-0.9874342	0.3234298	0.61804582
Rpl28	26658.4599	-0.1907359	0.19791623	-0.9637204	0.33518611	0.62800397
Gabarap	6026.56923	-0.1907604	0.2454449	-0.7772027	0.43703921	0.71102725
Srpk1	10063.5902	-0.1907621	0.15004835	-1.2713378	0.20360852	0.48825228
Lrpprc	12630.2012	-0.1909689	0.19488482	-0.9799063	0.32713236	0.62039456
Arl3	3021.96885	-0.1910189	0.24150884	-0.7909394	0.42897935	0.7048133
Atg4c	875.949129	-0.1910213	0.21119327	-0.9044855	0.36573802	0.6560083
Sall4	13871.4356	-0.1911378	0.24159926	-0.7911357	0.42886479	0.7048133
Hist1h4f	5.34658938	-0.1912393	0.38981236	-0.4905931	0.62371427	NA
Ankrd17	14804.8758	-0.191249	0.21448333	-0.8916732	0.3725681	0.66269681
Sec11a	6088.90934	-0.191315	0.23942473	-0.7990612	0.42425492	0.70280233
Zbtb14	1157.34071	-0.191335	0.19861961	-0.9633238	0.33538505	0.62800397
L3mbtl2	10771.0698	-0.1914045	0.24019269	-0.796879	0.4255213	0.70377154
LOC106740	537.093758	-0.1914934	0.26289238	-0.72841	0.46636267	0.7350163
2610301B20F	1714.72802	-0.1915148	0.16905325	-1.1328665	0.25727034	0.55006377
Pex3	3235.55413	-0.1915426	0.21179726	-0.9043678	0.3658004	0.65604452
Txndc17	8245.46486	-0.1915736	0.20506225	-0.9342214	0.35018967	0.64204193
Emg1	10415.9223	-0.1916065	0.17808781	-1.07591	0.28196749	0.5743878
Snora28	119.439598	-0.1916166	0.33864013	-0.5658414	0.57150162	0.80538015
Kat8	2167.15158	-0.1916656	0.17965267	-1.0668677	0.28603159	0.57916346
Wwox	760.665874	-0.1917542	0.31713476	-0.6046457	0.54541445	0.78666331
Srgap3	721.135119	-0.191793	0.29510208	-0.6499209	0.51574331	0.76698137
Slc41a3	343.749501	-0.1918738	0.28723706	-0.667998	0.50413489	0.76026005
D7Ertd143e	2503.82356	-0.192063	0.34731905	-0.5529871	0.58027221	0.80858541
Fam172a	1349.90269	-0.1920825	0.22207316	-0.8649515	0.38706541	0.67601687
Patl1	5307.94682	-0.1922473	0.222776	-0.8629622	0.38815824	0.67731697
Cttnbp2nl	1659.21962	-0.1922679	0.21651175	-0.8880252	0.37452718	0.66421244
Polrmt	2294.70207	-0.1923311	0.21835156	-0.8808321	0.3784087	0.66771292
Dhrs7	726.350602	-0.1923463	0.43185533	-0.4453952	0.65603416	0.85271673
Poc5	1839.26347	-0.1923737	0.15374054	-1.2512877	0.21082954	0.49778092
Faf1	11214.5289	-0.1925285	0.15774173	-1.22053	0.22226401	0.51090346
Ccdc112	1101.4577	-0.1926614	0.26530437	-0.7261902	0.46772215	0.735927
Crebl2	708.774814	-0.1926734	0.22851875	-0.8431404	0.39914995	0.6847754
Rps23	39569.5195	-0.1927142	0.19550074	-0.9857469	0.32425732	0.618534
Tubb5	113239.981	-0.1927728	0.20063459	-0.9608152	0.3366451	0.62930255
Ppp1r8	7426.57315	-0.1929776	0.16719968	-1.1541746	0.24842858	0.5418391
1700016K19F	46.5092043	-0.1930148	0.41703428	-0.4628272	0.64348826	0.84496208
Pgam1	6450.08165	-0.1930525	0.24315695	-0.7939421	0.42722914	0.70423083

Gpr25	3.42069207	-0.1930737	0.29759988	-0.6487695	0.51648737	NA
Ranbp10	3002.97569	-0.1931653	0.27048391	-0.7141471	0.4751362	0.74066189
Cpeb2	352.406887	-0.1932556	0.37277754	-0.5184208	0.60416471	0.82299978
Slc9a6	1656.10324	-0.1933122	0.19266626	-1.0033525	0.31569083	0.6100793
Dhfr	6925.90333	-0.1933349	0.1782074	-1.0848868	0.27797178	0.57035746
Lhfp12	1172.2583	-0.1933498	0.30649333	-0.6308451	0.52814178	0.77548229
Crisp3	6.15844789	-0.1934184	0.41194912	-0.4695202	0.63869788	0.84194208
Trappc6b	2233.82723	-0.1934963	0.16280804	-1.1884936	0.23463901	0.5263048
Srsf6	28188.3392	-0.1935705	0.18144974	-1.0667997	0.28606228	0.57916346
Aimp1	7806.75469	-0.1936491	0.18581377	-1.0421675	0.29733402	0.59166236
9930012K11F	230.525975	-0.1936589	0.37455797	-0.5170333	0.60513292	0.82379634
Zfp617	802.11739	-0.1936743	0.26303454	-0.7363076	0.46154349	0.73179789
Hydin	676.850917	-0.1937082	0.29150749	-0.6645049	0.50636719	0.7617875
Aco1	6370.84488	-0.1937386	0.16299836	-1.1885926	0.23460002	0.5263048
Enox2	959.178268	-0.1937908	0.19026584	-1.0185268	0.30842768	0.60292433
Pecam1	14505.8934	-0.1937976	0.19498143	-0.9939286	0.32025763	0.61412854
Zp3r	15.7753145	-0.1939847	0.40522321	-0.4787108	0.63214435	0.83806282
Zfp868	2265.01036	-0.1940179	0.23432026	-0.8280029	0.40766884	0.69149849
Mier1	5826.24962	-0.1941071	0.19216656	-1.0100983	0.31244821	0.60690508
Nelfb	4261.04026	-0.1942203	0.18908628	-1.0271517	0.30434904	0.59933289
Wnt5b	124.105091	-0.1942671	0.36509142	-0.5321052	0.59465311	0.81785181
Etv6	2898.09235	-0.194295	0.27363724	-0.710046	0.47767559	0.7424775
Rell1	5499.73339	-0.1943192	0.24380514	-0.7970268	0.42543549	0.70377154
Arhgap26	472.312745	-0.1944722	0.25022726	-0.7771824	0.43705117	0.71102725
Hsd17b7	1838.77918	-0.1945174	0.23454601	-0.829336	0.40691431	0.69089687
Bcat2	5352.11446	-0.1945656	0.21481701	-0.9057271	0.36508032	0.65505527
Oard1	6304.67955	-0.194608	0.1810544	-1.074859	0.28243784	0.57481886
Nek2	6148.8967	-0.1946293	0.19369309	-1.0048333	0.31497711	0.6093449
Ipo9	11339.8799	-0.1946358	0.22576622	-0.8621123	0.38862572	0.6776332
Cyp2j6	279.699428	-0.1948644	0.30077971	-0.6478641	0.51707286	0.76793048
Aldh3a2	4252.54829	-0.1949063	0.2196958	-0.8871646	0.3749903	0.66478273
Itgav	5638.22081	-0.1949261	0.26117845	-0.746333	0.45546628	0.72593585
Phf11b	35.4559964	-0.1950325	0.40978334	-0.4759406	0.63411669	0.83926065
Nbas	2125.25101	-0.1950464	0.23477699	-0.8307733	0.40610173	0.68991262
Dctd	3825.44708	-0.1950483	0.28808523	-0.6770507	0.49837378	0.75670871
Car13	3106.47322	-0.1951548	0.22891623	-0.8525163	0.39392757	0.68150459
Ube2b	5973.96267	-0.1952759	0.20738619	-0.9416051	0.34639487	0.63847181
Dusp7	939.268854	-0.1953091	0.24673826	-0.791564	0.42861496	0.7047819
Ranbp3	7023.83129	-0.1953409	0.20519194	-0.9519911	0.34110148	0.63465177
Ppp1r3f	95.1900779	-0.1953608	0.32519768	-0.6007447	0.54801001	0.78881129
Glis3	369.17009	-0.195483	0.34859524	-0.5607736	0.57495186	0.80673793

Klhl26	1276.75379	-0.1955992	0.19530751	-1.0014935	0.31658829	0.61108396
Slc12a2	5928.78654	-0.1956328	0.23020137	-0.8498333	0.39541778	0.68263121
Leprot	5514.89451	-0.1956483	0.19775559	-0.989344	0.32249484	0.6168656
Seh1l	16722.6562	-0.195746	0.15965844	-1.2260299	0.22018742	0.50877701
Acvr2b	574.205202	-0.1957525	0.22132111	-0.8844728	0.37644105	0.66644294
Crkl	6449.8773	-0.1958366	0.2030683	-0.9643876	0.33485163	0.62791242
Dgkq	1459.91345	-0.1959991	0.19014896	-1.030766	0.30265055	0.59790613
Snrnp40	10084.0827	-0.1960487	0.16853905	-1.1632241	0.2447386	0.53748482
Mrpl50	5004.8644	-0.1961209	0.15965522	-1.2284026	0.21929588	0.50770735
Myh11	16.7214465	-0.1961322	0.42969503	-0.4564452	0.6480699	0.8481137
Mfsd6l	1.53650642	-0.1961873	0.23405399	-0.8382138	0.40191063	NA
Xpo7	8134.10718	-0.1963539	0.20910605	-0.9390159	0.3477226	0.63986259
Prrc2a	20302.3999	-0.1963552	0.23307872	-0.8424414	0.39954094	0.68486983
Zfp366	1.28166069	-0.1963961	0.21123744	-0.9297411	0.35250513	NA
Cfdp1	17263.1582	-0.1965023	0.2309274	-0.8509267	0.39481007	0.68226374
Mir7237	2.15604141	-0.1965519	0.3176838	-0.6187028	0.53611217	NA
Rims4	23.2753576	-0.1966005	0.40782879	-0.4820663	0.62975887	0.83650508
Sptlc3	1.36644259	-0.1968399	0.28146687	-0.6993361	0.48434202	NA
D630041G03	1.36644259	-0.1968399	0.28146687	-0.6993361	0.48434202	NA
Exoc3	3917.53965	-0.1968819	0.15455226	-1.2738856	0.20270397	0.48733798
Rps24	92972.6218	-0.1968956	0.22868556	-0.8609883	0.38924451	0.67794934
Tmem145	15.2932265	-0.1969005	0.42837431	-0.4596459	0.64577037	0.84645778
Mir1907	1.35691116	-0.1969022	0.28564933	-0.6893143	0.49062547	NA
Bcl7a	1673.09779	-0.1970174	0.1987272	-0.991396	0.32149225	0.61570518
Ctbp1	4246.75158	-0.1970994	0.1678743	-1.1740894	0.24035923	0.53260564
Sgpp1	1599.13026	-0.1971013	0.23524381	-0.8378595	0.40210963	0.68675204
Pmpcb	6228.6917	-0.197143	0.15009338	-1.3134691	0.18902494	0.47055017
Mmgt1	2395.53922	-0.1973105	0.192115	-1.0270438	0.30439983	0.59935702
Golga2	3316.99329	-0.1973868	0.1816211	-1.0868056	0.27712272	0.56954016
Layn	87.6833211	-0.1974033	0.35368625	-0.558131	0.57675494	0.80734073
Apba3	1598.59686	-0.1974686	0.20945108	-0.9427911	0.34578777	0.63790477
Slc1a5	6994.29917	-0.1974687	0.18426541	-1.0716539	0.28387552	0.57623655
Apol10b	1.46475652	-0.1976939	0.2360307	-0.8375769	0.40226839	NA
Rsf1	7412.42978	-0.1976955	0.16452586	-1.2016076	0.22951561	0.52051878
Magoh	7448.76789	-0.1977346	0.18052447	-1.0953342	0.27337027	0.56629559
Golph3	7180.37413	-0.1977543	0.15533078	-1.273117	0.20297653	0.48733798
Maml1	1818.6362	-0.1977546	0.24398668	-0.8105138	0.41764496	0.69868745
Phf10	4735.7592	-0.1977812	0.16859318	-1.1731269	0.24074491	0.53300457
Kdm5c	13425.5847	-0.197824	0.19615527	-1.008507	0.31321114	0.60787966
Nsun5	1166.06054	-0.1978367	0.18070966	-1.0947767	0.27361447	0.56657505
Pdp2	4572.00577	-0.1979177	0.28046408	-0.7056795	0.48038747	0.74407463

6720489N17I	510.090556	-0.1979337	0.23965302	-0.8259177	0.40885077	0.6924459
Qrich1	10729.0575	-0.1979455	0.18537358	-1.0678195	0.28560194	0.57853274
Spg21	5645.42064	-0.1981057	0.18698581	-1.0594692	0.28938614	0.58263126
Tvp23b	3011.30011	-0.1982129	0.19302279	-1.0268885	0.30447296	0.59938614
Fkbp7	272.218138	-0.198364	0.29804799	-0.6655439	0.5057027	0.76134737
5031426D15I	1.29536424	-0.1983695	0.21216698	-0.9349685	0.34980451	NA
Mob1a	4071.32931	-0.1983706	0.25153379	-0.7886438	0.43032023	0.70612112
Dlg1	10052.1776	-0.198388	0.17149656	-1.1568047	0.24735214	0.54032493
Ehmt1	4416.41947	-0.198393	0.22303827	-0.8895019	0.37373343	0.6634462
Zfp462	4669.86862	-0.1984025	0.2990624	-0.663415	0.50706479	0.76238659
Ppp4r2	5929.12034	-0.198416	0.18109575	-1.0956412	0.27323583	0.56626801
Agpat5	7165.99188	-0.1984579	0.22899676	-0.8666407	0.38613889	0.67521226
Fuk	2409.57359	-0.1985435	0.23425913	-0.8475381	0.39669524	0.68311652
Atp8b5	45.0000405	-0.1985903	0.39033194	-0.5087729	0.61091139	0.82651745
Scnn1a	57.0404062	-0.19861	0.42646695	-0.4657103	0.64142291	0.84346082
Chchd3	8160.18775	-0.1986626	0.1884503	-1.0541911	0.29179542	0.5855866
Zfp599	1940.49511	-0.198696	0.17362945	-1.1443682	0.25247096	0.54598821
Sucla2	10862.6496	-0.1987333	0.19544535	-1.016823	0.30923763	0.60406412
Tbc1d1	5368.32723	-0.1987956	0.18396426	-1.0806207	0.27986585	0.57228058
Dnmt3a	3543.55642	-0.1988755	0.31872111	-0.6239796	0.53264099	0.7787064
Adrbk1	4605.081	-0.1988839	0.17049542	-1.1665056	0.24341007	0.53577799
Zcchc3	2518.84954	-0.1988858	0.22035999	-0.9025493	0.36676513	0.65694132
Rasip1	612.027193	-0.1989144	0.33241195	-0.5983971	0.549575	0.79002041
Mir7673	14.2673553	-0.1989181	0.43182015	-0.4606504	0.64504948	0.84608337
Mrpl22	2356.17213	-0.1989249	0.24478478	-0.8126523	0.41641745	0.69837863
Cdip1	2797.91686	-0.1989519	0.17772459	-1.1194392	0.26295283	0.55517933
Stxbp6	120.728555	-0.1991012	0.40837617	-0.4875436	0.62587312	0.83430078
Pno1	9894.91046	-0.1991269	0.18903744	-1.053373	0.29217007	0.58603595
Mir6935	26.6635048	-0.1991443	0.41128393	-0.4842015	0.62824288	0.83566889
Tmem87a	6523.11791	-0.1991679	0.17076596	-1.1663211	0.24348464	0.53577799
LOC10050502	1.35928685	-0.1991888	0.28138834	-0.7078788	0.4790205	NA
Gdi2	35698.3462	-0.1992236	0.15094815	-1.3198146	0.18689694	0.46787416
Zc3h18	7299.35421	-0.1993937	0.24470764	-0.8148243	0.41517291	0.69753175
Acot7	5027.83079	-0.199573	0.19326037	-1.0326637	0.30176129	0.59697807
Ell2	6023.80218	-0.1995913	0.23462081	-0.8506973	0.39493754	0.68233238
Rplp0	95047.0963	-0.199659	0.19656693	-1.0157306	0.30975769	0.60461696
Bloc1s3	1039.68124	-0.1997135	0.21669024	-0.9216546	0.35670879	0.64788348
Mcm6	36025.8142	-0.1997641	0.14770727	-1.3524323	0.17623705	0.45380054
Ahr	940.392312	-0.1997735	0.22044694	-0.9062203	0.36481928	0.6548307
Cstf1	4633.97904	-0.1997859	0.18002444	-1.1097709	0.26709774	0.55963851
Fam89b	511.228093	-0.1997867	0.20271907	-0.9855348	0.32436144	0.618534

Snora65	686.087673	-0.1999508	0.21079835	-0.9485406	0.34285432	0.63654819
Gnptab	3777.86941	-0.1999671	0.19752952	-1.0123405	0.31137527	0.60603215
Tmed7	8208.23396	-0.2000698	0.15928018	-1.2560871	0.20908441	0.49516588
Vps9d1	516.107241	-0.2001219	0.28219231	-0.7091685	0.47821993	0.74289758
Hccs	3691.22397	-0.2001827	0.18873265	-1.0606682	0.28884074	0.58216601
Fasn	43605.9804	-0.2002021	0.27194732	-0.7361798	0.46162126	0.73179789
Cby1	1177.92807	-0.2002744	0.21323861	-0.9392033	0.34762637	0.63983166
Pkmyt1	2853.55912	-0.2003172	0.1999765	-1.0017037	0.31648672	0.61108396
Wdr74	4966.90276	-0.2003602	0.18922878	-1.058825	0.28967948	0.58307087
Spryd4	2745.76106	-0.2003807	0.18357698	-1.0915352	0.27503746	0.5675013
Cpb1	1.55870617	-0.2004371	0.23563428	-0.8506281	0.39497599	NA
Smg8	3552.28512	-0.2005101	0.2221299	-0.9026705	0.3667008	0.65694132
Rapgef2	1767.74935	-0.200535	0.24813961	-0.808154	0.41900196	0.69973018
Cmas	4022.17185	-0.2005514	0.18349324	-1.0929635	0.27440981	0.56715903
Pbdc1	5731.99389	-0.2006091	0.17929752	-1.1188615	0.26319923	0.5553611
Cldn5	121.349136	-0.2006573	0.37050685	-0.5415752	0.58811115	0.81382065
Adap1	3254.48691	-0.200669	0.31182888	-0.6435228	0.51988494	0.76982772
Lancl2	1394.77059	-0.2007239	0.25118321	-0.7991135	0.42422459	0.70280233
Aox4	90.366635	-0.200733	0.39194627	-0.5121442	0.60855006	0.82562526
Pask	3284.90961	-0.2007565	0.16173222	-1.2412895	0.21449883	0.50160471
Cwc22	5023.82236	-0.2008108	0.19503972	-1.0295894	0.30320277	0.59849162
Lym9	783.66782	-0.2008944	0.27765393	-0.7235424	0.46934669	0.73704055
BC005624	2194.46109	-0.2009266	0.17752777	-1.131804	0.25771685	0.5502471
Plxna1	8183.04469	-0.2009731	0.25587676	-0.7854292	0.43220196	0.70764083
Smarcd2	5635.17808	-0.2010457	0.18008232	-1.1164101	0.26424661	0.55583648
Mrpl9	3406.51475	-0.20121	0.15617033	-1.2884007	0.19760653	0.48086773
Syt3	266.972236	-0.2012231	0.36292635	-0.5544462	0.57927352	0.80819076
Ankrd61	2.78594235	-0.2013326	0.35495831	-0.5672007	0.57057784	NA
Cep135	2170.56881	-0.2013725	0.20562215	-0.9793325	0.32741571	0.62070482
lkbkg	2366.45762	-0.2015364	0.17852996	-1.1288662	0.25895427	0.55124631
Znf512b	1917.18978	-0.20155	0.26016949	-0.7746875	0.43852436	0.71220104
Rnh1	5579.7958	-0.2015985	0.22162035	-0.909657	0.36300341	0.65337545
Jmjd6	4152.71235	-0.20162	0.17706212	-1.1386965	0.25482975	0.54795202
Fam160b1	3124.54343	-0.2016686	0.20154831	-1.000597	0.31702168	0.6115864
Mir8112	31.0727431	-0.201733	0.39685374	-0.5083309	0.61122132	0.82675021
Bhlhe23	7.26908596	-0.2017989	0.41864981	-0.4820232	0.62978949	0.83650508
Sh3bp5l	1789.63352	-0.2018239	0.2500464	-0.8071456	0.41958257	0.70015213
Cse1l	29456.8598	-0.2019572	0.16234364	-1.2440106	0.21349568	0.50028431
2900008C10F	4.61227706	-0.2019912	0.36730042	-0.5499345	0.58236432	NA
Mamdc4	115.325068	-0.2021246	0.32585384	-0.6202921	0.53506551	0.78005097
Kcng3	15.494886	-0.2021672	0.43192521	-0.4680608	0.63974114	0.84238903

Gcsh	11635.868	-0.2022544	0.18288342	-1.1059196	0.2687613	0.56176169
Tacc3	8772.65625	-0.2023209	0.17459524	-1.1587999	0.24653775	0.53953931
Rab19	74.4181582	-0.2023353	0.41837245	-0.4836247	0.62865224	0.83585593
P2ry4	1.41426671	-0.2023775	0.21402921	-0.9455601	0.34437298	NA
Muc4	3.11332837	-0.2025818	0.30252106	-0.6696453	0.50308395	NA
Rpl39l	4735.03218	-0.2027504	0.24155152	-0.839367	0.40126338	0.6864738
Cxadr	3325.10172	-0.2028114	0.23559424	-0.8608504	0.38932044	0.67794934
Zfp74	2135.81294	-0.2028341	0.22315396	-0.9089426	0.36338041	0.65367309
Rnf125	972.850505	-0.2028503	0.28492971	-0.711931	0.47650748	0.74161007
Alg3	1633.3144	-0.2028807	0.22635899	-0.8962785	0.37010403	0.66041168
Prpf39	4252.44055	-0.2030319	0.23200059	-0.8751353	0.38150028	0.67051434
Gigyf2	12564.928	-0.2030841	0.16232902	-1.2510645	0.21091095	0.49778092
Slc35g1	4460.84894	-0.2031046	0.29072749	-0.6986082	0.48479689	0.747183
Tmem35	79.8265202	-0.2031601	0.33366732	-0.6088702	0.54261048	0.78538119
Ngly1	667.77962	-0.2031666	0.28469315	-0.7136336	0.47545376	0.74093411
Tmem183a	7238.73084	-0.2031712	0.15486999	-1.3118823	0.18955984	0.47129813
Mrps9	5131.73594	-0.2032551	0.17952614	-1.1321756	0.25756061	0.55010645
Rpl7l1	19440.6782	-0.2032814	0.17327266	-1.173188	0.24072042	0.53300457
St8sia6	1240.1519	-0.2034562	0.28823203	-0.7058764	0.480265	0.74407463
Lap3	38368.2515	-0.2034901	0.1496391	-1.3598723	0.17387032	0.45108931
Morn1	179.487037	-0.2036129	0.3545776	-0.5742407	0.56580496	0.80174611
Aox3	673.958893	-0.2036726	0.42690304	-0.4770933	0.63329571	0.83880262
Zfp113	610.719678	-0.2036822	0.18223137	-1.1177123	0.2636899	0.55541671
Med24	5890.13292	-0.2037229	0.22087103	-0.9223613	0.35634017	0.64764337
Slc24a1	370.047776	-0.2037847	0.25350147	-0.8038798	0.42146639	0.70108061
Zfp704	3889.0017	-0.2037864	0.25247164	-0.8071657	0.41957102	0.70015213
Plekha2	7106.29655	-0.2038333	0.17632631	-1.1560006	0.2476809	0.54081517
Svopl	2.17812266	-0.2039032	0.32069607	-0.6358145	0.52489735	NA
Mapkapk3	1994.89543	-0.2039516	0.27899802	-0.7310145	0.46477028	0.73406893
Ak1	6137.49101	-0.2042035	0.21625593	-0.9442678	0.34503282	0.63773152
Gata4	252.573596	-0.2042641	0.25215045	-0.8100882	0.41788948	0.69881121
Wsb1	17794.4372	-0.2043744	0.21565914	-0.9476731	0.34329591	0.63670595
Fzd2	361.793196	-0.2044372	0.25412506	-0.8044748	0.4211228	0.70099991
Hsd17b12	8702.66894	-0.204459	0.17801958	-1.1485196	0.25075411	0.54423965
Fgfr4	148.146837	-0.2045031	0.3509073	-0.5827837	0.56003892	0.79814554
Fam63a	6557.60922	-0.2045192	0.17372968	-1.1772268	0.239105	0.53111297
Rassf3	842.484836	-0.2045455	0.20462206	-0.999626	0.31749153	0.61159656
Mea1	2715.84455	-0.2045773	0.23207121	-0.8815283	0.37803194	0.66762223
Mrpl11	4584.85368	-0.2046073	0.20955323	-0.9763978	0.32886738	0.62222868
Cdk5rap2	5229.76839	-0.2046301	0.17832244	-1.1475288	0.25116313	0.5446713
Otud6b	5602.05665	-0.2046457	0.19015746	-1.0761909	0.2818419	0.57420719

Xbp1	5679.21583	-0.2046768	0.23279722	-0.8792063	0.37928943	0.66834881
Gemin8	392.46479	-0.2046948	0.21701698	-0.9432202	0.34556826	0.63779826
Nr2f6	1059.98205	-0.2047731	0.23615871	-0.8670995	0.38588748	0.67503876
Psmg4	1346.03405	-0.2047842	0.26273051	-0.7794459	0.43571707	0.70987111
Thap3	676.457257	-0.2048266	0.30426728	-0.6731799	0.50083285	0.75813841
Pts	766.14331	-0.2048664	0.28375594	-0.7219811	0.47030608	0.73786621
Son	24453.6634	-0.2048807	0.22812304	-0.8981151	0.36912419	0.65949566
Gcc2	3024.7987	-0.2049211	0.21093801	-0.9714755	0.33131154	0.62451222
Itch	7560.91907	-0.2049982	0.19142328	-1.0709159	0.28420724	0.5768346
Ash1l	2214.80294	-0.2051336	0.26036224	-0.7878777	0.43076823	0.70667088
Plaur	346.889377	-0.2051824	0.33261111	-0.6168838	0.53731138	0.78120132
Vsig10	998.329359	-0.2051965	0.21186442	-0.9685275	0.33278097	0.62603606
Cxxc5	3273.55813	-0.2052191	0.21116402	-0.9718467	0.3311268	0.62431533
Acot10	25.2856232	-0.2052844	0.40053913	-0.5125202	0.60828695	0.82562526
Lrrc47	4865.63345	-0.2053552	0.21067559	-0.9747461	0.32968622	0.62303576
Supt20	4861.51309	-0.2053975	0.24062797	-0.8535895	0.39333249	0.68099684
Tox	4.14780015	-0.2054044	0.39039038	-0.5261513	0.59878309	NA
Rdh13	2321.00663	-0.2054567	0.16795878	-1.2232569	0.22123269	0.50961184
Glt25d1	18565.685	-0.2056098	0.18112439	-1.1351858	0.25629749	0.54923505
Neur13	18.5094504	-0.2057523	0.42790399	-0.4808376	0.63063194	0.83705678
Taf6	4612.20746	-0.2057844	0.15620631	-1.3173884	0.18770848	0.46907513
Nebi	15.4289303	-0.205859	0.42768728	-0.4813306	0.63028152	0.83687739
Polr3a	3996.61871	-0.2059927	0.20615591	-0.9992082	0.31769384	0.61159656
Cdca5	5043.87996	-0.2060121	0.20064589	-1.0267446	0.30454074	0.59940679
Apof	103.081215	-0.206116	0.39224112	-0.5254829	0.5992475	0.8201599
Ssx2ip	1564.69748	-0.2062104	0.25372042	-0.8127464	0.41636348	0.69837863
Eya2	25.0382737	-0.2063178	0.42701486	-0.483163	0.62897998	0.83614872
Ubap2	12717.3552	-0.2064283	0.24112767	-0.8560955	0.39194493	0.67995712
2310039H08I	373.950111	-0.2064455	0.29339537	-0.7036426	0.48165537	0.74482882
Klf3	3374.43962	-0.2064501	0.22468523	-0.9188415	0.35817848	0.64926373
Rara	2597.95902	-0.2064711	0.25933223	-0.7961646	0.4259364	0.70402942
Fam220a	811.077682	-0.2066724	0.20758684	-0.9955948	0.31944705	0.61307183
Tbc1d2	643.400499	-0.2067112	0.24024886	-0.8604045	0.38956611	0.67794934
Map2k3os	197.61352	-0.2068289	0.26127986	-0.7915992	0.42859443	0.7047819
Dus1l	5362.43748	-0.2068982	0.21769414	-0.9504076	0.34190517	0.63539283
Nck2	1090.50245	-0.2069689	0.19400358	-1.0668304	0.28604842	0.57916346
Nup153	15424.1251	-0.2069898	0.24518523	-0.844218	0.39854757	0.6844631
Adm	18.5732687	-0.2070492	0.42483389	-0.4873651	0.6259996	0.83432634
Selplg	102.398249	-0.2070872	0.35356031	-0.5857197	0.55806392	0.79653452
Mtmr6	2213.47093	-0.2070977	0.17126911	-1.2091946	0.2265881	0.51681895
Npy	6.99601551	-0.2071113	0.41452233	-0.4996385	0.61732967	0.83032065

Taf9	3133.17847	-0.2071717	0.19484666	-1.0632551	0.2876663	0.58112478
Mfsd6	214.711359	-0.2071728	0.29918327	-0.6924613	0.48864768	0.74962613
6330416G13I	879.303424	-0.2072099	0.22678097	-0.9137007	0.36087415	0.65179488
Atp5h	13004.3064	-0.2073479	0.22399004	-0.9257015	0.35460114	0.64618462
Upf3a	2910.22482	-0.2074129	0.21134456	-0.9813968	0.32639713	0.61957682
Fam92a	2789.57164	-0.2074417	0.23714485	-0.874747	0.38171159	0.67065405
Aass	196.035173	-0.2074906	0.41086067	-0.5050145	0.61354868	0.82850171
Ptpn2	7245.0085	-0.2074934	0.16343737	-1.2695588	0.20424183	0.48937571
Pde4dip	2166.29222	-0.2075152	0.2017601	-1.0285243	0.30370325	0.5985887
Dsg2	10359.8391	-0.2075537	0.22026445	-0.942293	0.34604263	0.63804944
Zfp954	983.261842	-0.2076044	0.18504466	-1.121915	0.26189858	0.5542712
Tle4	6121.54037	-0.2076156	0.26890842	-0.7720682	0.44007405	0.71413874
Nt5dc2	4478.94831	-0.2077401	0.23086287	-0.8998421	0.36820429	0.6586088
I730030J21Ri	1.38577077	-0.2078159	0.28679363	-0.7246183	0.46868625	NA
Pstpip1	289.686757	-0.2079248	0.22868172	-0.9092322	0.36322759	0.65361632
Usp21	3015.58663	-0.2079526	0.22129427	-0.9397108	0.34736593	0.63973089
Ccar2	2882.91202	-0.2080016	0.24076071	-0.8639348	0.38762372	0.67661202
Ndufv3	4772.10035	-0.2080442	0.23209183	-0.8963875	0.37004584	0.66038362
Nudt14	831.187114	-0.2082173	0.26651562	-0.7812575	0.43465104	0.70881484
Ceacam9	9.84313993	-0.2082375	0.42221592	-0.4932014	0.62187027	0.83196874
Srsf7	32228.9822	-0.2082416	0.17739087	-1.173914	0.24042947	0.53268538
Arl13b	1676.42376	-0.2082833	0.18858402	-1.1044588	0.26939416	0.5624056
Pigb	541.110461	-0.2083576	0.26832479	-0.7765125	0.43744643	0.71150815
Mtmr9	2896.16486	-0.2084719	0.22268626	-0.9361685	0.34918645	0.64162941
Lhfpl5	19.533801	-0.2084776	0.43226652	-0.4822895	0.62960033	0.83647285
1110037F02F	5859.26394	-0.2084845	0.19989385	-1.042976	0.29695942	0.59129526
Impad1	7088.1875	-0.208504	0.23644973	-0.8818113	0.37787885	0.66753344
Vprbp	10034.0511	-0.2085214	0.21468514	-0.9712892	0.33140427	0.6245356
Hspbp1	2819.12909	-0.2086451	0.18993814	-1.09849	0.2719906	0.56547137
Fastkd1	2301.47508	-0.2087585	0.18384968	-1.1354845	0.25617238	0.54910222
Mcm9	946.96278	-0.2088178	0.19401871	-1.0762765	0.2818036	0.57420438
Syce3	24.0170838	-0.2088888	0.42715265	-0.489026	0.6248233	0.8335444
Thoc7	3850.05519	-0.2089088	0.17644193	-1.184009	0.2364095	0.52810283
Gucd1	1101.82669	-0.2089572	0.17698366	-1.1806579	0.23773866	0.52993576
Prpf40a	17010.3088	-0.2091247	0.19032295	-1.0987887	0.27186023	0.56527591
Dhrs2	2.40097833	-0.2091833	0.346865	-0.6030684	0.54646316	NA
Fstl5	7.57984006	-0.2092236	0.29059554	-0.719982	NA	NA
Slc5a10	13.4910137	-0.2092716	0.43226833	-0.4841242	0.62829772	0.83567036
Ostm1	4234.24274	-0.2093794	0.22234141	-0.9417023	0.34634509	0.63845572
Nfrkb	2968.03443	-0.2094051	0.21793635	-0.9608546	0.33662528	0.62930255
Pmis2	13.6723128	-0.2094849	0.43217559	-0.4847218	0.6278737	0.83543543

Tmem39a	8639.04548	-0.209485	0.19567948	-1.0705518	0.28437102	0.57703758
Snrnp25	2037.24111	-0.2094952	0.23640806	-0.8861592	0.37553174	0.66536335
Cenpp	2079.65889	-0.2095499	0.1837754	-1.1402501	0.25418213	0.54726985
Rdh1	0.88108956	-0.2096801	0.21743311	-0.964343	0.33487398	NA
Mcidas	2.74676175	-0.2097742	0.34977031	-0.5997483	0.54867397	NA
Tcaim	767.209359	-0.2097995	0.19127774	-1.0968316	0.272715	0.56606275
Ppp1r15b	11108.6541	-0.2098139	0.17210719	-1.2190883	0.22281067	0.51187866
Dctn2	9351.25593	-0.2098784	0.19234052	-1.0911814	0.27519306	0.5675013
Sox2	33524.3319	-0.2100199	0.14652165	-1.4333712	0.15175178	0.41871751
Fbxw2	5124.66804	-0.2101542	0.1494313	-1.4063598	0.15961731	0.43063997
Bzw2	12233.894	-0.210367	0.16989052	-1.2382504	0.21562322	0.5027617
Fech	2184.8043	-0.2104965	0.18005873	-1.1690438	0.24238598	0.53472044
Ccdc9	1784.2775	-0.2105029	0.1852092	-1.1365684	0.25571877	0.54856501
Ddx21	31017.0916	-0.2105114	0.22315575	-0.9433383	0.34550791	0.63779826
5530601H04I	363.722026	-0.2105388	0.20909649	-1.0068977	0.31398396	0.60841899
9030625G05I	50.8551311	-0.2105667	0.41850325	-0.5031423	0.61486421	0.82951097
Zdhhc7	837.551581	-0.2105969	0.20923093	-1.0065287	0.31416133	0.60856039
Ap2b1	12211.9943	-0.2107696	0.1962253	-1.0741202	0.28276883	0.57511615
Rhno1	2460.87593	-0.210896	0.17922961	-1.1766804	0.23932309	0.5313496
Trap1	17692.5708	-0.2110257	0.14352523	-1.4703035	0.14147956	0.40192705
Fam162a	4158.90303	-0.211033	0.30450981	-0.6930254	0.48829362	0.74937867
Rbm8a	16250.1446	-0.2110331	0.18788128	-1.1232259	0.26134158	0.5536198
Dnajc27	1385.74247	-0.2110738	0.19716788	-1.0705286	0.28438146	0.57703758
Gmeb2	1902.70831	-0.2110753	0.16243037	-1.2994816	0.19377872	0.47646674
ldh3g	9732.4068	-0.2111462	0.18094033	-1.1669381	0.24323538	0.53577799
Lrrc6	11.0558166	-0.2111687	0.43040987	-0.4906224	0.62369351	0.8326801
2700029M09	5208.98067	-0.2111987	0.20848686	-1.0130074	0.31105665	0.6056394
Osgin2	1594.08874	-0.2112105	0.18230423	-1.1585606	0.24663535	0.53953931
Paox	736.816302	-0.2113013	0.25889304	-0.8161722	0.41440168	0.69676294
Tbc1d2b	1321.41171	-0.2113561	0.20752377	-1.0184669	0.30845614	0.60292433
Arhgap22	205.220024	-0.2114344	0.24820905	-0.8518402	0.39430281	0.6819176
Ankfy1	6675.14888	-0.2114655	0.22682237	-0.9322955	0.35118383	0.64318216
Rpl14-ps1	619.867679	-0.2115006	0.21961573	-0.9630485	0.33552317	0.62818695
Git1	5093.94926	-0.2115473	0.21159883	-0.9997566	0.3174283	0.61159656
Syne4	1152.62456	-0.2116193	0.2524024	-0.8384204	0.40179465	0.68675204
Zfpm1	500.849909	-0.2117481	0.27246098	-0.7771686	0.43705932	0.71102725
BC030870	1.17784062	-0.2117948	0.25526549	-0.8297039	0.40670619	NA
Med16	1661.96599	-0.2118066	0.19325045	-1.096021	0.27306958	0.56626801
Ntn4	9.43270039	-0.2118075	0.39652706	-0.5341565	0.59323326	0.81705522
Tab3	2722.29393	-0.2119804	0.20072436	-1.0560769	0.29093309	0.58476633
Aldoa	116036.978	-0.2120693	0.27319719	-0.7762501	0.43760134	0.7115571

Eif4ebp1	23419.318	-0.2121	0.21296276	-0.9959487	0.31927506	0.61303091
Fam96b	2286.75893	-0.2121119	0.1989393	-1.066214	0.2863269	0.57949961
Tmed1	2557.04743	-0.2121364	0.20816294	-1.0190882	0.3081611	0.60283181
Myo1c	8456.75032	-0.2121488	0.25991843	-0.816213	0.41437834	0.69676294
Sec16a	5065.18671	-0.2121958	0.28474106	-0.7452238	0.45613642	0.72648274
Mecr	868.723849	-0.2122018	0.17349668	-1.2230884	0.22129632	0.50968293
Ash2l	33978.5765	-0.2122878	0.17391403	-1.2206482	0.22221926	0.51090346
Gm14393	327.026104	-0.2122929	0.23119097	-0.9182579	0.35848385	0.64959011
Polr2h	4212.00222	-0.2123512	0.18954275	-1.1203341	0.2625714	0.5549512
2610318N02l	1219.0685	-0.212364	0.23013267	-0.9227893	0.35611703	0.64764054
Dsn1	2441.54906	-0.2125563	0.16721169	-1.271181	0.20366425	0.48831063
Vps4a	2600.99508	-0.2127252	0.1559504	-1.3640568	0.17254969	0.44946737
Wwp1	6261.1584	-0.2127436	0.20040753	-1.0615549	0.28843778	0.58207837
Vrk2	1474.84502	-0.2127699	0.24117212	-0.8822326	0.37765102	0.6672936
Tceal3	2.77186141	-0.2128511	0.35550192	-0.5987341	0.54935018	NA
Agr2	1.35653378	-0.2129967	0.28966869	-0.7353114	0.46214989	NA
Wdr75	12598.0436	-0.2130023	0.15852926	-1.3436148	0.17907298	0.45711817
Uncx	2.2671802	-0.2133017	0.3138973	-0.6795272	0.49680389	NA
Lsm3	8438.87529	-0.2133292	0.20189974	-1.0566097	0.29068975	0.58465032
Ppp1r2	3466.78031	-0.2133677	0.21640662	-0.9859575	0.32415397	0.618534
Trim40	67.035	-0.213384	0.38884293	-0.5487665	0.58316572	0.81058367
Dpf2	5582.11063	-0.2133969	0.19583219	-1.0896927	0.27584852	0.56820011
Pola2	6185.4589	-0.2135084	0.16481409	-1.2954501	0.195165	0.47806832
Med13	4351.59162	-0.2136115	0.27318611	-0.7819267	0.43425767	0.70860901
Dse	6553.58708	-0.2136548	0.19605596	-1.0897642	0.27581704	0.56820011
Dph7	1594.53849	-0.2138308	0.16096466	-1.328433	0.18403512	0.46444825
Adora1	4.22597118	-0.2139536	0.33055639	-0.647253	0.51746822	NA
Tspan13	3690.09402	-0.2139989	0.20533585	-1.0421898	0.29732371	0.59166236
Pdcd10	3043.05778	-0.2140504	0.17298914	-1.2373635	0.21595217	0.50296124
Ube2ql1	119.278329	-0.2143396	0.43180049	-0.4963857	0.61962232	0.83116939
Src	4933.7165	-0.214379	0.19899822	-1.077291	0.28135028	0.57358132
Rps8	78126.0423	-0.2143902	0.21131051	-1.014574	0.31030893	0.60486516
Clec2f	3.42739033	-0.2144029	0.33969924	-0.631155	0.52793921	NA
Plp1	307.54274	-0.2144492	0.28634393	-0.7489218	0.45390435	0.72485793
Ddx10	9601.59665	-0.2146456	0.15583307	-1.377407	0.16838645	0.44330077
D930028M14	8.46283984	-0.2146687	0.43033314	-0.498843	0.61788999	0.83032275
Unc13d	618.740251	-0.2147201	0.28702879	-0.7480785	0.4544128	0.72518943
Gpr62	16.6278359	-0.2147812	0.43017686	-0.4992858	0.61757808	0.83032065
Psme4	27204.1049	-0.2148133	0.25720903	-0.83517	0.40362202	0.68793578
Zfp740	8268.99876	-0.2150152	0.22871631	-0.9400955	0.34716858	0.63965147
Zfp217	6781.86313	-0.2153677	0.17907403	-1.2026739	0.22910255	0.52003704

Cebpa	78.9970497	-0.2154435	0.40834123	-0.5276064	0.59777254	0.81972425
Tapt1	1782.69605	-0.2154888	0.16557578	-1.3014514	0.193104	0.47575417
Igsf9b	451.273429	-0.2155328	0.37434121	-0.5757655	0.5647737	0.8012435
Il17ra	366.05251	-0.2155573	0.27136694	-0.7943388	0.42699821	0.70407759
Hsd17b14	4592.34129	-0.2155925	0.32831545	-0.6566626	0.5113979	0.76501865
Trim75	0.91974593	-0.2156374	0.22010668	-0.9796947	0.32723683	NA
Tdp2	5589.8857	-0.2156569	0.18028605	-1.1961928	0.23162134	0.52302118
2610507B11f	24876.3266	-0.2157702	0.23387234	-0.9225984	0.35621654	0.64764054
Urb1	5433.41452	-0.2157807	0.25451729	-0.8478035	0.3965474	0.68311652
Cib4	4.40756425	-0.2159981	0.34954329	-0.6179439	0.53661231	NA
A330093E20f	1.56883549	-0.2160109	0.22018783	-0.9810301	0.32657789	NA
Fmn1	1035.43237	-0.2160304	0.24177187	-0.8935301	0.37157338	0.66164325
Exo1	5571.42011	-0.2160715	0.17450091	-1.2382257	0.21563238	0.5027617
Malsu1	1669.41946	-0.2161203	0.21206012	-1.0191462	0.30813358	0.60283181
Hnrnpdl	24207.5984	-0.2161528	0.18988087	-1.1383602	0.25497009	0.54796018
Mier3	4569.01438	-0.2162878	0.18217221	-1.1872709	0.23512079	0.52698982
Sf3a3	11449.357	-0.2163299	0.17586137	-1.2301159	0.21865371	0.50697538
Gnl2	7881.77361	-0.2163311	0.14443418	-1.4977832	0.13418959	0.39146902
Cyb561d1	347.299518	-0.2165125	0.25040271	-0.8646573	0.38722689	0.67614702
Pgm3	3922.68572	-0.2165673	0.17701558	-1.2234365	0.22116486	0.50953108
Tom1l1	2309.16412	-0.2165694	0.31693492	-0.6833244	0.49440188	0.7544987
Numa1	12137.4191	-0.2165768	0.20363101	-1.0635749	0.28752134	0.5809829
Has2	6.56995764	-0.2166078	0.42172508	-0.5136233	0.60751537	0.82510669
Nbr1	15314.2447	-0.2166237	0.15019938	-1.4422411	0.14923438	0.41471476
Afg3l2	8143.3857	-0.2166751	0.16367192	-1.3238377	0.18555695	0.46609532
Crispld1	66.6108109	-0.2167632	0.43154392	-0.5022969	0.61545868	0.82965647
Helb	7423.75572	-0.2167691	0.18341828	-1.1818293	0.23727345	0.52931278
Maff	522.449841	-0.2169841	0.39537136	-0.548811	0.58313516	0.81058367
H6pd	2458.87805	-0.2169896	0.19147384	-1.1332596	0.25710525	0.5500404
Krt78	1.19001306	-0.2171973	0.25604498	-0.8482777	0.39628332	NA
Igsf1	40.8605331	-0.2173049	0.40374721	-0.5382202	0.59042504	0.8154987
Mmp16	5.44205149	-0.2175221	0.41227974	-0.527608	0.59777142	NA
Kri1	3532.90399	-0.2177333	0.19838054	-1.0975539	0.27239935	0.56572838
Cdyl2	9389.69127	-0.2177714	0.22658589	-0.9610986	0.33650258	0.6291874
1700034F02f	16.4317687	-0.2177854	0.43224055	-0.5038522	0.61436521	0.82912379
Opa3	1522.52761	-0.2178277	0.23056936	-0.9447382	0.34479256	0.63773152
Rin2	479.896064	-0.2179062	0.36242663	-0.6012423	0.54767864	0.78860653
Sarnp	7379.46634	-0.2179242	0.18368037	-1.1864316	0.23545191	0.52736751
Mtfr1	8960.9025	-0.2179866	0.14600197	-1.4930387	0.13542706	0.39321069
Kpnb1	69019.2998	-0.2180088	0.1925303	-1.1323351	0.25749358	0.55010645
Tmc6	2345.5352	-0.218158	0.18017129	-1.2108368	0.22595794	0.51577873

1700012D14I	12.6754861	-0.2182108	0.43170219	-0.5054661	0.61323147	0.82831257
Slc35a5	1023.61447	-0.218221	0.2377913	-0.9176995	0.35877622	0.64978295
Gm15698	920.430959	-0.2183728	0.38253983	-0.5708499	0.56810136	0.80306738
Ptges2	1377.95803	-0.2183972	0.19529791	-1.1182773	0.2634486	0.55541671
Vmn2r57	9.67447768	-0.2184493	0.4292852	-0.5088675	0.6108451	0.82651745
Timm9	1986.92001	-0.218478	0.18700153	-1.1683222	0.24267682	0.53484513
Zfp345	1001.85872	-0.2185282	0.22419343	-0.9747305	0.32969398	0.62303576
Mxd3	475.667442	-0.2185786	0.28856997	-0.7574544	0.44877766	0.72156136
Mob1b	1128.36317	-0.2186079	0.32078768	-0.6814722	0.49557278	0.75533199
Snord47	571.781002	-0.2186079	0.24859327	-0.87938	0.37919528	0.66834881
Zc3h7b	7248.29656	-0.2186162	0.2133047	-1.0249009	0.30540994	0.59990273
Kdr	133.025369	-0.2186388	0.32003049	-0.6831812	0.49449236	0.7544987
Cox7a2l	5152.65759	-0.2188199	0.21099865	-1.0370679	0.29970419	0.59454027
Riok3	8230.85249	-0.2188612	0.19366189	-1.1301201	0.2584256	0.55101675
Hnrnpu	83192.2872	-0.2188869	0.16448232	-1.3307624	0.1832672	0.46341272
Cbx5	34688.728	-0.2189037	0.1980306	-1.1054035	0.26898479	0.56201096
Pck2	4365.61582	-0.2189136	0.2382133	-0.9189814	0.3581053	0.64926373
2310035C23F	3605.68914	-0.2189207	0.23673537	-0.9247487	0.35509663	0.64691984
Evi5l	205.190111	-0.2189388	0.30568379	-0.7162263	0.4738516	0.74014326
Yy2	787.384578	-0.2189495	0.2323402	-0.9423662	0.34600521	0.63804944
Anapc15	3052.48306	-0.218993	0.19115799	-1.1456126	0.25195546	0.54567942
Tnk2	6567.95011	-0.2189958	0.20066787	-1.0913349	0.27512556	0.5675013
lfrd2	3195.49048	-0.2190129	0.19991486	-1.0955309	0.27328412	0.56626801
lst1	7660.63497	-0.2192411	0.24392457	-0.8988071	0.36875539	0.65913197
Tkt	42396.2601	-0.2192721	0.17528236	-1.2509649	0.21094727	0.49778092
8030423F21F	2.43368478	-0.2192963	0.31503365	-0.6961043	0.48636352	NA
Pnpo	2805.24912	-0.2193435	0.21163355	-1.0364308	0.30000121	0.59491442
Nsdhl	3815.50858	-0.2193623	0.18525378	-1.1841179	0.2363664	0.52810283
Eif1a	22224.9576	-0.2194166	0.16287092	-1.3471811	0.17792191	0.45556244
Pcnp	4660.56227	-0.2194453	0.24949305	-0.8795648	0.37909511	0.66834881
Dtnb	2773.24594	-0.2194567	0.15593797	-1.4073331	0.15932864	0.43014212
Pdxk-ps	7.02262403	-0.2195489	0.41556659	-0.5283123	0.5972826	0.81955501
Bambi-ps1	4.33198976	-0.2195742	0.38922742	-0.5641283	0.5726668	NA
Snd1	14212.2021	-0.2196193	0.15381158	-1.4278466	0.153336	0.42114592
Nup210	10637.1909	-0.2196453	0.21154322	-1.0383001	0.29913038	0.59386908
Polq	1346.7301	-0.2197652	0.22328051	-0.9842559	0.32498969	0.6188465
2810468N07I	34.6273327	-0.2198754	0.42739636	-0.5144532	0.60693519	0.82467883
Abcb8	1720.65394	-0.2199602	0.17794896	-1.2360861	0.21642655	0.50376429
Ccng2	1227.28288	-0.2199619	0.29976239	-0.7337877	0.46307815	0.73295963
Azi2	2898.3101	-0.2199695	0.15014487	-1.4650484	0.14290771	0.40406505
Tnp1	2.18837047	-0.2199709	0.29327613	-0.7500469	0.45322643	NA

Tmem5	1765.69196	-0.2199964	0.20035772	-1.098018	0.27219665	0.56560113
Wdr76	10965.4789	-0.219997	0.2088824	-1.0532099	0.29224481	0.58609887
Adamtsl5	94.7545744	-0.220316	0.30824013	-0.7147545	0.47476078	0.74052205
Mup6	156.989197	-0.2204027	0.39008632	-0.5650099	0.572067	0.80545169
Fhod1	899.650592	-0.220419	0.28306862	-0.778677	0.43616999	0.7101063
Ccser2	3733.31115	-0.2204565	0.24655	-0.8941656	0.37123328	0.66151584
Mup20	1.45842921	-0.2205168	0.22217553	-0.9925343	0.32093697	NA
Sncg	275.561307	-0.2205571	0.29372336	-0.7509007	0.45271241	0.72421877
Lrr1	1695.80316	-0.2205817	0.26202475	-0.8418355	0.39988006	0.68508701
Plekhg4	56.6767315	-0.22065	0.42245778	-0.5223007	0.60146099	0.82154763
Hn1l	17245.8096	-0.2206623	0.20516703	-1.0755252	0.28213967	0.574588
Fam49b	13938.4043	-0.2206884	0.18166327	-1.2148211	0.22443434	0.51368924
Khdc1b	11.7074604	-0.2207974	0.37264302	-0.5925173	0.55350426	0.79259159
Rprd1a	3160.14225	-0.2209607	0.23664321	-0.9337293	0.35044355	0.64235593
Zcchc18	131.160372	-0.2210035	0.31147767	-0.7095325	0.4779941	0.74273443
Leng8	6283.09406	-0.221062	0.1879047	-1.1764578	0.23941197	0.53140707
Mtpap	3298.37984	-0.2211157	0.17480853	-1.2649023	0.20590636	0.49075903
Mest	3096.43115	-0.2211912	0.33767678	-0.6550383	0.51244313	0.76532398
Pkn2	10235.5676	-0.2212259	0.19457075	-1.1369948	0.25554048	0.54856501
Med23	3648.63601	-0.2212337	0.23645671	-0.9356202	0.34946877	0.6418553
Nup210l	245.426528	-0.2213873	0.36323632	-0.6094855	0.54220265	0.78508319
Lsm8	4381.20233	-0.2214792	0.22521893	-0.9833951	0.32541301	0.61902113
Cd4	105.823931	-0.2215095	0.42358928	-0.5229346	0.60101979	0.82152226
Xrcc5	18132.1086	-0.221612	0.15130946	-1.4646277	0.14302252	0.40424269
Tgm5	2.76718371	-0.2216313	0.32600753	-0.6798349	0.49660898	NA
Chac1	1004.67587	-0.2217259	0.26328666	-0.8421464	0.39970601	0.68491125
Birc7	375.520033	-0.221767	0.39741928	-0.5580176	0.57683236	0.80734073
Eif3h	16621.5494	-0.2217749	0.18062008	-1.2278531	0.21950211	0.50803353
Rbm10	5471.54733	-0.2217837	0.19468363	-1.1392007	0.25461944	0.54788804
Fgfr1op2	3196.25477	-0.2218196	0.15292226	-1.4505384	0.14690844	0.41138842
Mad2l2	1779.74069	-0.221876	0.20470502	-1.0838815	0.27841736	0.57075699
Arfgef1	4974.35079	-0.2220333	0.24686426	-0.8994144	0.36843198	0.65878874
Zfp229	9813.63947	-0.2220919	0.23754384	-0.9349513	0.34981341	0.64198366
Mkl2	1564.84969	-0.2222255	0.22358195	-0.993933	0.32025548	0.61412854
D630032N06	43.3433437	-0.2222277	0.36646922	-0.6064021	0.54424775	0.78623679
Rbm39	31418.297	-0.2223166	0.17533643	-1.2679433	0.2048182	0.49017049
Rassf5	82.2387635	-0.2224148	0.4192824	-0.5304653	0.59578933	0.81869046
Ercc6l	5726.05307	-0.2224538	0.17781973	-1.2510074	0.2109318	0.49778092
Tmed10	6324.53187	-0.2226305	0.1756925	-1.2671602	0.205098	0.4903111
Wdr59	3136.97412	-0.222772	0.21176051	-1.0519995	0.29279978	0.5865425
Klhl12	3623.40507	-0.2227914	0.16539465	-1.3470292	0.17797082	0.45557599

Myo18b	377.231296	-0.2228058	0.37953501	-0.5870493	0.55717058	0.79586293
Ccdc162	51.1400226	-0.222933	0.36164191	-0.6164468	0.53759969	0.78132829
Akap12	64858.8095	-0.2232596	0.22621851	-0.9869203	0.32368171	0.61837521
Cables2	1033.46808	-0.2233232	0.18298111	-1.2204714	0.22228621	0.51090346
Etv1	362.274589	-0.2233458	0.39933602	-0.5592929	0.57596182	0.80734073
Proz	5.4415021	-0.2234804	0.3934482	-0.5680048	0.57003174	NA
Zfp429	359.85131	-0.2235018	0.424268	-0.5267939	0.59833671	0.81984777
Eif2s2	81565.7051	-0.2236938	0.19834113	-1.1278238	0.25939435	0.55144791
Shmt2	13622.4879	-0.2237797	0.21036939	-1.0637467	0.28744345	0.58090099
Magea4	140.738578	-0.2238171	0.34811722	-0.6429362	0.52026553	0.76986886
Rnaseh2a	6100.21354	-0.224121	0.2206922	-1.0155365	0.30985016	0.60461696
Sult1a1	87.9308676	-0.2241852	0.40482225	-0.5537868	0.57972474	0.80831465
Lrch1	2182.52447	-0.2242937	0.20012708	-1.1207565	0.26239154	0.55478597
Rbm25	21456.0753	-0.2242952	0.18739226	-1.1969286	0.23133437	0.52296566
Tssk3	3.50060411	-0.2243269	0.38248068	-0.5865052	0.55753608	NA
Zpr1	5387.20438	-0.2243891	0.16021897	-1.400515	0.16135917	0.43228454
Lyz2	1.21925005	-0.2243967	0.26034671	-0.861915	0.38873428	NA
Esy2	4960.94286	-0.2244101	0.20562087	-1.0913781	0.27510653	0.5675013
Gkap1	1843.49498	-0.2246515	0.19053941	-1.1790291	0.23838659	0.53042636
Fnbp4	8184.63576	-0.2246641	0.1745841	-1.2868533	0.19814541	0.4811611
Pomk	1582.14627	-0.2246975	0.23289959	-0.9647827	0.33465368	0.6276926
Tcerg1	12889.3957	-0.2247264	0.2361551	-0.9516052	0.34129724	0.63466932
Wbscr16	1870.12922	-0.2247794	0.16713512	-1.3448962	0.17865875	0.45666046
Negr1	6.13562558	-0.2248145	0.37907588	-0.5930595	0.55314135	0.79221782
Cwc15	6560.72992	-0.2249922	0.16029154	-1.4036439	0.16042492	0.43177016
Mrpl2	4430.33363	-0.2250714	0.19364339	-1.1622985	0.24511422	0.537854
Celf5	740.816593	-0.2251367	0.22092584	-1.0190602	0.30817437	0.60283181
Rsl1d1	29543.0293	-0.2251669	0.17543494	-1.2834779	0.19932471	0.48250548
4933427D14I	1331.26662	-0.2252007	0.24287433	-0.9272312	0.35380652	0.64527848
Prap1	41.4101488	-0.2252221	0.41627116	-0.5410465	0.58847554	0.81419144
Myh9	29073.8443	-0.2252445	0.20414898	-1.1033339	0.26988219	0.56289403
Cpsf3	10061.4133	-0.2252487	0.16890136	-1.3336109	0.18233141	0.46179736
Sowaha	48.840079	-0.2252821	0.42298659	-0.5325987	0.59431141	0.81778194
Agtr1a	2.81344686	-0.2253525	0.29716696	-0.7583362	0.44824971	NA
Tor1b	3084.0943	-0.2254189	0.16567343	-1.3606218	0.17363325	0.45100512
Tmpo	21647.2727	-0.2255534	0.17345657	-1.3003449	0.19348278	0.47612768
Nedd4	114253.359	-0.2255752	0.20511554	-1.0997471	0.27144232	0.56501132
Usp15	9226.07374	-0.2255759	0.15792253	-1.4283959	0.15317794	0.42100922
Nkiras2	2634.21125	-0.2256334	0.20176579	-1.1182937	0.26344158	0.55541671
Fermt2	9198.52755	-0.2256658	0.16817778	-1.341829	0.17965145	0.45797246
Cap1	13684.4675	-0.2256742	0.16891451	-1.3360261	0.18154073	0.46060561

Ak2	16256.3425	-0.2256968	0.16816706	-1.3420989	0.17956393	0.45784532
Metrn	1017.73509	-0.2257088	0.31651668	-0.7131025	0.47578232	0.74133857
Snapc4	2392.52712	-0.2258064	0.19198776	-1.1761502	0.23953487	0.53153636
Dctn4	4138.70292	-0.2260035	0.1918806	-1.177834	0.23886278	0.53094189
Nkap	2497.7485	-0.2260215	0.18297599	-1.2352525	0.21673655	0.50410859
Erich1	1820.90736	-0.2262571	0.17636747	-1.2828731	0.19953654	0.48250548
Baiap2	1295.60664	-0.2264003	0.26841845	-0.8434604	0.398971	0.68473657
N4bp2l2	6702.55646	-0.2264396	0.15049706	-1.5046118	0.13242391	0.38877972
Rhoa	19126.6724	-0.2264877	0.14978684	-1.5120668	0.13051688	0.38645621
Tsku	702.419251	-0.2264885	0.19971167	-1.1340774	0.25676209	0.54991148
Napb	436.775974	-0.2265147	0.30609453	-0.7400154	0.45929067	0.72986186
Tonsl	3176.2176	-0.2266363	0.20912175	-1.0837527	0.27847447	0.57075699
Fbxo11	4786.58549	-0.2268238	0.18269578	-1.241538	0.21440705	0.50150668
Enoph1	5425.39378	-0.2268328	0.19833222	-1.1437012	0.25274757	0.54598821
Cct2	54104.5962	-0.2268656	0.15864242	-1.4300436	0.1527045	0.42030588
Erc8	1270.78402	-0.2269305	0.19264857	-1.1779506	0.23881632	0.53094189
Mir684-1	17.243045	-0.2269529	0.42677256	-0.5317889	0.59487221	0.81794822
Cenpo	1626.272	-0.2270761	0.17914132	-1.267581	0.20494762	0.49027741
Cep170b	3350.3706	-0.2272418	0.20739014	-1.0957215	0.27320067	0.56626801
Actr3b	1090.47129	-0.2272599	0.32886182	-0.6910497	0.48953432	0.75067166
Hiatl1	4634.55723	-0.2274644	0.17259847	-1.3178816	0.18754328	0.46888835
Gmps	11545.0426	-0.2274791	0.15855241	-1.434725	0.15136547	0.41846833
Rab5b	3000.0599	-0.2274838	0.18726205	-1.2147885	0.22444676	0.51368924
Mthfd2	9349.35314	-0.2275213	0.19347985	-1.1759433	0.23961754	0.53163981
Ranbp17	5222.03276	-0.2275612	0.22926023	-0.992589	0.32091031	0.61489356
Zfp960	1441.42687	-0.227697	0.19287025	-1.1805709	0.23777322	0.52993576
Nme7	3415.83312	-0.2277027	0.22643347	-1.0056051	0.31460556	0.60919325
Pcsk2	4.61218726	-0.2278222	0.39497801	-0.5767972	0.56407649	NA
Ttbk2	1828.72891	-0.2278349	0.24512677	-0.9294577	0.35265196	0.64439796
Herc3	2126.08262	-0.2278674	0.18529472	-1.2297568	0.2187882	0.50706041
Socs7	2830.45348	-0.2278729	0.23324829	-0.9769541	0.32859189	0.62221988
Siglecg	12.3082184	-0.2278739	0.40399793	-0.5640472	0.57272198	0.80615492
Cxxc1	2432.48602	-0.2279435	0.19319725	-1.1798484	0.23806052	0.53000416
Tal2	14.9786911	-0.2279588	0.40537432	-0.5623415	0.57388336	0.80652888
Tagap1	1064.56671	-0.2282026	0.43139697	-0.5289851	0.59681577	0.81955304
lqcc	1175.66212	-0.2283003	0.18777123	-1.2158431	0.22404471	0.51323805
Zmynd11	2612.7542	-0.2284331	0.19832342	-1.1518213	0.24939453	0.54295595
Lace1	1503.68878	-0.2285006	0.16311546	-1.4008516	0.16125847	0.43227306
Oxsr1	10778.657	-0.228535	0.15784595	-1.4478357	0.14766301	0.41238389
Nek7	2041.51543	-0.2285514	0.22723121	-1.0058097	0.31450713	0.60909583
Armcx4	2274.95401	-0.2286348	0.23961046	-0.9541938	0.33998553	0.633415

Rps17	34643.2867	-0.2287997	0.21083373	-1.0852138	0.27782697	0.5702108
lsg20l2	7241.07705	-0.228835	0.19295431	-1.1859542	0.23564037	0.52749347
Fem1b	20378.4618	-0.2288681	0.24294208	-0.9420684	0.34615761	0.63818578
Vps39	3541.99456	-0.22901	0.22254905	-1.0290316	0.30346482	0.59850576
Efna2	470.367701	-0.2291246	0.22562876	-1.0154937	0.30987056	0.60461696
Reep6	828.452577	-0.2292217	0.22025299	-1.0407199	0.29800555	0.59246795
Sowahb	352.360636	-0.2292306	0.23763472	-0.9646343	0.33472801	0.62775631
Susd2	2467.13678	-0.2294201	0.31783321	-0.7218254	0.47040182	0.73788201
Adnp	9885.10866	-0.229429	0.20977975	-1.0936662	0.2741014	0.56692432
Glg1	8910.69281	-0.2294697	0.28026709	-0.8187535	0.41292706	0.69515344
Zfp420	683.323872	-0.2295289	0.21302191	-1.0774897	0.28126155	0.5734756
Nr2c2	3233.82089	-0.2295375	0.24105628	-0.9522156	0.34098767	0.63459781
Ppargc1b	417.602003	-0.2295539	0.25173867	-0.9118739	0.36183512	0.65254528
Ccdc93	3876.88718	-0.2299386	0.24963433	-0.9211018	0.35699729	0.64810471
Csgalnact2	1043.89725	-0.2299625	0.22350066	-1.0289121	0.30352099	0.59850576
Tbc1d31	2798.38593	-0.229976	0.15903374	-1.4460831	0.14815391	0.41304077
Mlxip	1715.00904	-0.2299764	0.22709583	-1.0126845	0.3112109	0.60586388
Cyp2c44	37.9885181	-0.230008	0.42597918	-0.5399513	0.5892306	0.81457242
Nlgn2	1953.00535	-0.2300694	0.2308541	-0.996601	0.31895822	0.61284294
Ppp1r26	1044.84791	-0.2301037	0.27944763	-0.8234232	0.41026735	0.69309338
Wipf2	2823.66965	-0.2301831	0.20700805	-1.1119525	0.26615857	0.55842308
Mtcp1	353.70693	-0.2302357	0.26191919	-0.8790334	0.37938319	0.66837974
1700123M08	13.4665956	-0.2303655	0.43121144	-0.5342286	0.59318339	0.81705522
Glod4	6842.39533	-0.2304133	0.15904721	-1.4487098	0.14741865	0.41204462
Xpo1	53224.7343	-0.2304835	0.16279513	-1.4157884	0.15683746	0.42609701
Als2cr12	5.74715441	-0.2305669	0.38913471	-0.5925118	0.55350794	NA
Wfdc8	0.99161433	-0.2307149	0.22664405	-1.0179613	0.30869636	NA
lisy1	3956.93724	-0.2307312	0.1852424	-1.2455638	0.2129246	0.4996189
Mvd	3232.84728	-0.2307615	0.18636071	-1.2382521	0.21562261	0.5027617
Ube2t	3331.96602	-0.2308864	0.23179553	-0.9960781	0.31921221	0.61303091
Sema3e	65.6960286	-0.2308944	0.41719403	-0.5534462	0.57995792	0.80836476
Morc2a	8945.13415	-0.2309564	0.2362836	-0.9774543	0.32834427	0.62193444
Snx24	396.153986	-0.2310854	0.24883757	-0.9286594	0.35306561	0.64466039
Arfgap3	1693.48613	-0.2311259	0.17821966	-1.2968595	0.19467952	0.4775284
Hsf2	4503.58129	-0.2311587	0.14894781	-1.5519445	0.1206755	0.36940975
lft52	4983.4157	-0.2311964	0.16843742	-1.372595	0.16987828	0.44511837
Xlr3a	3365.79641	-0.2312708	0.33200469	-0.6965889	0.48606012	0.7479571
Rpl14	65984.9665	-0.2313167	0.18510349	-1.2496614	0.21142328	0.49812885
Gtf2a1l	7.76431585	-0.2314665	0.42285053	-0.5473956	0.58410698	0.81141028
Luzp1	8550.15123	-0.2315259	0.21265134	-1.0887584	0.27626046	0.56872206
Ears2	1352.81552	-0.2315264	0.19337858	-1.1972703	0.2312012	0.52281662

Cyp4f15	2.56478852	-0.2316018	0.25707964	-0.9008951	0.36764409	NA
Btnl5-ps	2.33992728	-0.2316143	0.28963474	-0.7996771	0.42389793	NA
Ap1g1	10881.3528	-0.2316493	0.24311265	-0.9528477	0.34066724	0.63407735
Ate1	3829.44849	-0.2316508	0.16787999	-1.3798595	0.1676299	0.44250765
Cxcl10	5.43434568	-0.2319516	0.37531602	-0.6180169	0.53656421	NA
Brinp3	81.4941216	-0.2319622	0.36360869	-0.6379447	NA	NA
Snord71	2.4558397	-0.2321383	0.28623195	-0.8110146	0.41735729	NA
St8sia5	100.031511	-0.23214	0.34721618	-0.6685748	NA	NA
Lmnb2	5562.72024	-0.2322786	0.2120167	-1.0955676	0.27326804	0.56626801
Hrg	4.42876614	-0.2322833	0.35707394	-0.6505189	0.51535711	NA
Cd44	35.1094404	-0.2323796	0.42877499	-0.5419616	0.58784498	0.81353146
Git2	3995.29153	-0.2324652	0.20791261	-1.1180909	0.26352818	0.55541671
Scaf4	3810.32172	-0.2325029	0.23538597	-0.9877518	0.32327421	0.61782442
Cul4a	4590.71065	-0.232508	0.19319914	-1.2034629	0.22879724	0.51962142
Zzz3	6332.61119	-0.2325304	0.18941802	-1.2276045	0.21959549	0.50805484
Fgl2	94.3299442	-0.2325951	0.34358226	-0.6769706	0.49842463	0.75671204
Gsc2	21.0941951	-0.232601	0.42876369	-0.5424922	0.58747948	0.81340776
Ero1lb	301.560933	-0.2326046	0.27411187	-0.8485754	0.39611759	0.68292956
Nus1	7521.43893	-0.2326858	0.17096815	-1.3609894	0.17351704	0.45092973
Myef2	12275.4314	-0.2327262	0.14761994	-1.5765229	0.11490535	0.359753
Frs3	798.56404	-0.2328225	0.20083005	-1.159301	0.24633353	0.53945517
Ssu2	2.80632951	-0.232861	0.33273825	-0.6998323	0.48403204	NA
Cyc1	13116.514	-0.2328669	0.15450036	-1.5072253	0.13175292	0.38823237
Mnat1	4372.08138	-0.2329691	0.18953502	-1.2291611	0.21901142	0.50750211
Mrps35	3314.50354	-0.2330405	0.17050799	-1.3667423	0.17170608	0.4479452
Ddx1	18050.823	-0.2331308	0.1458231	-1.5987234	0.10988209	0.35030265
Abcc5	14377.7661	-0.2331354	0.16625821	-1.4022491	0.16084089	0.43208565
Kdm6a	4838.93834	-0.233156	0.22731556	-1.025693	0.30503631	0.59969907
Calb1	2.55841867	-0.2332809	0.34607661	-0.6740731	0.50026486	NA
Calm3	15089.0246	-0.2332916	0.17892734	-1.303834	0.19229018	0.4751259
Greb1l	183.493686	-0.2333215	0.39644101	-0.5885404	0.55616966	0.7952367
Iscu	1485.0264	-0.233388	0.16614024	-1.4047649	0.16009119	0.43144633
4833403115R	24.4732182	-0.2336608	0.40612943	-0.5753359	0.56506417	0.80125038
Idh3a	13320.0064	-0.2336677	0.1663255	-1.404882	0.16005638	0.43144633
Pstk	1975.83472	-0.2337021	0.20925084	-1.1168513	0.2640579	0.55578402
Scamp4	2799.1755	-0.2337133	0.20450122	-1.1428454	0.2531028	0.54607863
Gfi1b	3.03036232	-0.2337991	0.31391332	-0.7447886	0.45639951	NA
Fam83c	2.06673834	-0.2339805	0.2723549	-0.8591015	0.39028453	NA
Serpina7	21.8054781	-0.234191	0.41841216	-0.5597136	0.57567481	0.80714793
Hykk	499.387108	-0.234227	0.2282679	-1.0261057	0.30484175	0.59961979
Sctr	3.23283116	-0.2343715	0.36687948	-0.6388241	0.52293735	NA

Trmt112	1095.25749	-0.2344846	0.21099477	-1.1113292	0.26642667	0.55868408
Nat8	2.78139284	-0.23463	0.36423279	-0.6441759	0.51946138	NA
Vcpip1	2986.30561	-0.2346333	0.23009406	-1.0197279	0.30785751	0.60273097
Zfp58	901.522198	-0.2346474	0.21272948	-1.1030319	0.2700133	0.56309198
Upk1a	221.010064	-0.2347134	0.30074036	-0.7804521	0.43512483	0.70936432
Cnbp	51913.5872	-0.2348379	0.19362822	-1.2128289	0.22519524	0.51458839
Slc31a2	721.519793	-0.2348497	0.22521466	-1.0427816	0.29704946	0.59139882
Vdac2	22931.3401	-0.234906	0.15336127	-1.5317166	0.12559238	0.37885621
Dvl2	5572.77961	-0.2350699	0.19671882	-1.1949538	0.23210509	0.52371825
Tead1	12186.385	-0.2351138	0.24001296	-0.9795881	0.32728949	0.6205412
Zbtb39	1850.32602	-0.2351847	0.25031799	-0.9395438	0.34745161	0.63979142
Orc3	7988.7814	-0.2352253	0.20285578	-1.159569	0.24622434	0.53945262
Slc2a12	12.6555484	-0.2352482	0.40378181	-0.5826122	0.56015436	0.79814554
Mir6991	3.23738067	-0.2352705	0.37594886	-0.6258045	0.5314432	NA
Mgst1	14.2267671	-0.2353222	0.42754785	-0.5503997	0.58204528	0.81000763
Camsap3	4622.21476	-0.2353981	0.29254232	-0.8046633	0.42101401	0.70091929
Pqlc3	2518.52024	-0.2354337	0.20126826	-1.1697509	0.24210124	0.53454646
Aco2	26077.4232	-0.2355367	0.15971023	-1.474775	0.14027304	0.40038397
Zfp11	404.495186	-0.2356082	0.20827711	-1.1312247	0.25796051	0.55043138
Scarna8	4.83364896	-0.2356085	0.39212257	-0.6008542	0.54793711	NA
Rps5	91662.9456	-0.2358677	0.20606723	-1.1446153	0.25236854	0.54598821
Fam43b	28.244868	-0.2358897	0.42679603	-0.552699	0.58046953	0.80865954
Tmem176a	12.4724959	-0.2358973	0.4197892	-0.5619423	0.57415532	0.80656634
Gm13139	561.150181	-0.2359992	0.27633468	-0.854034	0.39308612	0.6808735
Grid2	70.0373985	-0.2363375	0.3298122	-0.716582	0.47363206	0.73992114
Unc5d	7.2170708	-0.236352	0.39833771	-0.5933457	0.55294983	0.79208943
Prkab2	1552.30404	-0.2363637	0.21106369	-1.1198689	0.26276965	0.55510278
Rps15a-ps4	16.4976744	-0.2363659	0.4248283	-0.5563797	0.5779513	0.80768356
Ints8	7983.26297	-0.2363722	0.15098785	-1.5655047	0.11746462	0.36401527
Dhx9	48608.3899	-0.2363804	0.20737998	-1.1398418	0.25435221	0.54746454
Zbtb8a	3209.18375	-0.2364704	0.17812884	-1.3275244	0.18433528	0.4644599
Hnrnp11	7369.48085	-0.2364985	0.20860474	-1.1337161	0.25691365	0.54993313
Dnah2	256.22401	-0.2365523	0.30763278	-0.7689437	0.44192675	0.71572619
Cd96	2.75953209	-0.2366001	0.33106986	-0.714653	0.47482346	NA
Rab8a	6314.27987	-0.2366305	0.22403784	-1.0562076	0.29087337	0.58476633
Tmem161a	2090.71084	-0.2366422	0.21766495	-1.0871857	0.27695477	0.56941395
4932438H23I	2.2794647	-0.2366505	0.32351676	-0.7314937	0.46447766	NA
Fancd2os	30.563358	-0.2366784	0.41770091	-0.5666216	0.57097127	0.80514818
Zkscan1	1799.43923	-0.2366789	0.1760343	-1.3445046	0.17878526	0.45690873
Mir17hg	3290.75979	-0.2366838	0.27899332	-0.8483493	0.39624348	0.6829437
Rps6kb1	4963.8516	-0.2367196	0.20668109	-1.1453377	0.25206931	0.5457992

Hyal3	98.2151411	-0.23673	0.36870726	-0.642054	0.52083813	0.76986886
Cyyr1	10.0129028	-0.2368045	0.42811325	-0.5531351	0.58017087	0.80851664
Lig4	1256.27227	-0.2371185	0.20468588	-1.1584505	0.24668025	0.53953931
Dot1l	5233.70862	-0.2371608	0.25773338	-0.9201789	0.35747927	0.64865412
Ddx23	9101.27046	-0.2372298	0.20688352	-1.1466829	0.25151272	0.5450894
Sspo	27.9693759	-0.2374151	0.4177932	-0.5682599	0.56985847	0.80449796
Slc22a21	110.757494	-0.2374251	0.30855749	-0.769468	0.44161553	0.71556426
Bmpr1b	11.2313062	-0.2374357	0.42723834	-0.5557452	0.57838502	0.8077652
Pax5	2.68624463	-0.2374576	0.33303612	-0.7130085	0.47584049	NA
Tti2	1720.15693	-0.237458	0.16930199	-1.4025706	0.16074493	0.43208565
Cd9	26368.7033	-0.2375937	0.22276948	-1.0665453	0.28617722	0.57932075
Mbtps1	12023.1309	-0.2376994	0.23484848	-1.0121394	0.3114714	0.60614337
Dennd6a	3768.64872	-0.237889	0.19421388	-1.2248817	0.2206198	0.50895393
Metap2	19104.6761	-0.2379726	0.15735871	-1.5122935	0.13045921	0.3864326
Zfp819	1769.86426	-0.2380562	0.25649432	-0.928115	0.35334794	0.6449764
Mrgbp	875.17138	-0.2381283	0.20595813	-1.1561974	0.24760042	0.5407913
Fbl	7445.05176	-0.2381887	0.169987	-1.401217	0.1611492	0.43222339
Clk2	3819.75512	-0.2383956	0.17010321	-1.4014762	0.16107171	0.43209007
Ccdc47	7548.05966	-0.2384304	0.20977194	-1.1366173	0.25569828	0.54856501
1700026L06F	19.7347502	-0.2384805	0.42711561	-0.5583512	0.57660458	0.80734073
Gucy1b3	14.9957045	-0.2384831	0.42715	-0.5583123	0.57663116	0.80734073
Hn1	7023.4024	-0.2385978	0.20950727	-1.138852	0.25476489	0.54792838
Arl2	1403.24347	-0.2386081	0.22133749	-1.0780285	0.28102102	0.57306031
Suv39h2	3162.49014	-0.2386484	0.16429731	-1.45254	0.14635151	0.41037007
Hsd17b6	2.89657917	-0.2386951	0.36393328	-0.655876	0.51190392	NA
Ctnna2	10.8996323	-0.2387175	0.43204447	-0.5525298	0.58058541	0.80865954
Hist1h2bg	3.00469956	-0.2387458	0.34572112	-0.6905735	0.4898336	NA
Rwdd1	2916.71403	-0.2388413	0.16908674	-1.4125373	0.15779181	0.42767192
Mtmr3	5578.30511	-0.2389796	0.19343691	-1.2354395	0.21666699	0.5040222
Aftph	4226.83645	-0.2391632	0.17712209	-1.3502731	0.17692838	0.45462404
Fam210b	740.600639	-0.239224	0.19674447	-1.2159122	0.22401839	0.51323805
Skiv2l2	13896.1794	-0.2393538	0.1750911	-1.3670242	0.17161772	0.4479452
Ppie	3765.60449	-0.2394832	0.21614618	-1.1079687	0.26787532	0.5606634
Agfg1	9932.81849	-0.239742	0.18828821	-1.2732714	0.20292174	0.48733798
Zfp935	980.457957	-0.2398338	0.24831494	-0.9658452	0.33412165	0.62729999
Fam122c	3.96940116	-0.2401662	0.33335136	-0.7204597	0.47124201	NA
Dcun1d1	1263.93965	-0.2401885	0.19738169	-1.216873	0.22365253	0.51290671
Gm7788	2.16105811	-0.2402309	0.33926921	-0.7080834	0.47889348	NA
6030408B16F	1.05785809	-0.240255	0.230622	-1.0417696	0.29751851	NA
Parg	7082.70974	-0.2402969	0.16087974	-1.4936427	0.13526903	0.39297005
Cd207	2.45501126	-0.2403057	0.31783869	-0.7560619	0.44961207	NA

Haus5	1757.92526	-0.2403778	0.19321909	-1.2440684	0.2134744	0.50028431
Sart1	6045.60793	-0.2404566	0.21002383	-1.1449016	0.25224993	0.54598821
Ctso	11.8205589	-0.2404983	0.43163676	-0.5571775	0.57740619	0.80734073
Gata1	31.8969805	-0.2407712	0.43198543	-0.5573595	0.57728185	0.80734073
Has3	169.575843	-0.2407878	0.42420052	-0.5676273	0.57028803	0.80487644
Tor2a	1547.62661	-0.240811	0.20529866	-1.172979	0.24080424	0.53306004
Dak	1746.95459	-0.2408506	0.19807334	-1.2159669	0.22399753	0.51323805
Hist1h2bm	2.00719927	-0.2409504	0.31247378	-0.7711061	0.44064407	NA
Tgds	1642.78871	-0.2410972	0.24873553	-0.9692912	0.33239991	0.62580521
Uhrf2	3450.0523	-0.2412282	0.2126778	-1.1342424	0.25669287	0.54983895
Chchd6	758.307749	-0.2412341	0.22934603	-1.0518347	0.2928754	0.5866184
Cops2	15793.3365	-0.2413454	0.17881151	-1.3497195	0.17710597	0.45462566
Ei24	14472.1178	-0.2413551	0.18870653	-1.2789971	0.20089809	0.48466741
Ntrk3	262.396561	-0.2414804	0.26848465	-0.8994199	0.36842905	0.65878874
Pnck	243.842894	-0.2415174	0.33272191	-0.7258837	0.46791009	0.73603782
Ppp1r12c	3109.74641	-0.2415608	0.17914365	-1.3484195	0.17752351	0.45503018
Gnpnat1	4125.29731	-0.2415955	0.17328599	-1.3942009	0.16325695	0.43524923
Clasp2	7285.82691	-0.2416093	0.21189562	-1.1402279	0.25419138	0.54726985
Wbscr27	1048.54383	-0.2416558	0.22380651	-1.0797533	0.28025206	0.57238395
Dtx2	1615.92109	-0.2416859	0.17983127	-1.3439592	0.17896159	0.45698386
Usp38	4621.61103	-0.2417838	0.22339905	-1.0822955	0.27912125	0.57150949
Bmpr1a	7738.03603	-0.2418158	0.20492102	-1.1800437	0.23798283	0.52998296
Cyp2c53-ps	12.1010417	-0.2420494	0.3840692	-0.6302233	0.52854851	0.77562901
Lig1	22972.7113	-0.2420828	0.19873426	-1.2181234	0.22317708	0.51226511
N4bp1	12347.8433	-0.2421715	0.22825138	-1.0609861	0.2886962	0.58216601
Usp36	3388.11576	-0.2423422	0.19949359	-1.2147867	0.22444745	0.51368924
Akp3	3.19295283	-0.2423528	0.37755121	-0.6419071	0.52093353	NA
Snn	929.594431	-0.2424056	0.27267657	-0.888986	0.37401061	0.66357547
Mprip	7813.40886	-0.2424359	0.18221787	-1.3304725	0.18336263	0.46357864
Ofd1	2850.8374	-0.2424895	0.17775745	-1.3641594	0.17251742	0.44946602
Exosc9	6555.32945	-0.2424914	0.20785968	-1.1666112	0.24336743	0.53577799
Snord70	10.8069327	-0.2425295	0.43109869	-0.5625847	0.57371775	0.80652888
9430008C03F	2695.0517	-0.24253	0.18998212	-1.276594	0.20174563	0.48618414
Axin1	4711.07224	-0.2425894	0.1706898	-1.4212298	0.15524996	0.4237087
Tnks1bp1	3065.50986	-0.2427418	0.23428442	-1.036099	0.30015596	0.59506952
Sigmar1	2892.21971	-0.2427569	0.17834995	-1.3611266	0.1734737	0.45091813
Chd5	420.392562	-0.2427609	0.213596	-1.1365424	0.25572964	0.54856501
Irgm1	192.755762	-0.2428457	0.42904064	-0.5660203	0.57137998	0.80538015
Pcbd2	735.867822	-0.2429342	0.23376791	-1.0392109	0.29870666	0.59342417
Tfam	6742.36154	-0.2430008	0.15829917	-1.5350734	0.12476579	0.37740378
Hsp90b1	79381.0098	-0.2431931	0.20771106	-1.1708241	0.24166948	0.53421167

Slu7	4775.35502	-0.2432223	0.21197609	-1.1474042	0.25121459	0.54470693
Eef1d	19483.7275	-0.2433077	0.20760317	-1.1719847	0.2412032	0.53379122
Slc12a3	13.827939	-0.2433292	0.42977454	-0.5661787	0.57127234	0.80538015
Gimap8	8.13040633	-0.2434478	0.42603445	-0.5714276	0.56770985	0.80306738
Hnrnp1	32800.7259	-0.2435849	0.18007536	-1.352683	0.17615693	0.45380054
Cep128	2033.23125	-0.2437053	0.17317696	-1.4072617	0.1593498	0.43014212
Gm6815	1.32537215	-0.2437464	0.26422121	-0.922509	0.35626315	NA
Zfp526	502.324256	-0.2438497	0.25202477	-0.9675625	0.33326291	0.62651977
Wdr36	11873.1685	-0.2438815	0.15315395	-1.5923947	0.11129605	0.35271344
Hgs	3324.99497	-0.2439865	0.22461727	-1.0862321	0.27737632	0.56958658
Rps12	96350.6711	-0.2440503	0.21524803	-1.1338096	0.25687442	0.54993313
Elof1	1856.4788	-0.2440872	0.20596169	-1.1851096	0.23597411	0.52775314
Msi1	1606.44001	-0.2442317	0.20010518	-1.2205165	0.22226913	0.51090346
Htt	4757.81668	-0.2442757	0.2218567	-1.1010517	0.27087416	0.56428186
Zfp365	1082.89196	-0.2443335	0.33671612	-0.7256364	0.46806167	0.7360836
Nsfl1c	6822.39832	-0.2443732	0.1716485	-1.4236841	0.15453793	0.42295308
Med12	3478.85371	-0.2444748	0.28587743	-0.8551735	0.3924551	0.68031092
Fzd5	6542.3228	-0.2445503	0.23923205	-1.0222307	0.30667174	0.60112463
Rplp1	121772.452	-0.2445521	0.20999094	-1.1645843	0.24418731	0.53667346
Rps15a	54957.6357	-0.2446056	0.21847716	-1.1195936	0.26288698	0.55517933
Pik3r2	2294.71215	-0.2447246	0.2240441	-1.0923055	0.27469885	0.56715903
Crebzf	3628.23979	-0.2447536	0.2364046	-1.0353168	0.30052099	0.59541367
Rnf180	22.7190946	-0.2447746	0.42876796	-0.5708789	0.56808175	0.80306738
Gstp1	2694.13612	-0.2448127	0.25929186	-0.9441589	0.34508844	0.63773152
1700125H20I	43.9144949	-0.2448705	0.43167986	-0.5672503	0.57054412	0.80487644
Gm3696	5.59618986	-0.2448821	0.34539852	-0.7089841	0.47833432	NA
Pcp4l1	50.744881	-0.2449657	0.40078019	-0.6112222	0.54105251	0.7846986
Fam35a	1591.27909	-0.244978	0.21036074	-1.1645613	0.2441966	0.53667346
Foxp4	3830.17016	-0.2450051	0.28094472	-0.872076	0.38316694	0.67230385
Rpl9	67734.7025	-0.2450302	0.19641222	-1.2475302	0.21220316	0.49892572
Fank1	538.813677	-0.2451817	0.3066063	-0.7996629	0.42390613	0.70263955
Pggt1b	1529.06425	-0.2452148	0.2334514	-1.0503891	0.29353923	0.58737844
Lsm14b	4694.07591	-0.2453011	0.20538809	-1.1943299	0.23234893	0.52411636
Lcor	284.17439	-0.2453376	0.34613281	-0.7087961	0.47845103	0.74302874
Surf4	8211.84278	-0.2453547	0.15885894	-1.5444815	0.12247173	0.37300389
Mdfi	193.210977	-0.2453695	0.30430365	-0.8063312	0.4200519	0.70035672
BC048403	1438.9911	-0.2454002	0.21451605	-1.143971	0.25263565	0.54598821
Coq3	2569.04227	-0.2454992	0.19381496	-1.2666677	0.20527413	0.4903111
Nabp1	3255.86543	-0.2455113	0.25981198	-0.9449576	0.3446805	0.63773152
Yars2	2998.53219	-0.2455316	0.17508504	-1.4023563	0.16080887	0.43208565
Gpsm1	333.334596	-0.245578	0.37319252	-0.6580465	0.51050823	0.76464545

Trove2	2572.0201	-0.2456009	0.20781259	-1.1818385	0.23726979	0.52931278
Spdyb	21.2993402	-0.2456078	0.42528108	-0.5775188	0.56358906	0.80003409
Elk4	541.209264	-0.2456685	0.304965	-0.8055629	0.42049491	0.70082789
0610037L13F	2172.29669	-0.2456791	0.21692516	-1.1325524	0.25740227	0.55010645
Acox1	284.761655	-0.2457401	0.33685993	-0.7295022	0.46569451	0.73463332
Cebpz	14977.2878	-0.2457823	0.16498324	-1.4897408	0.13629241	0.39419575
Wdr90	1346.29287	-0.2458483	0.18887248	-1.3016631	0.19303157	0.47565108
Snx30	2918.31976	-0.2459552	0.18216371	-1.3501877	0.17695578	0.45462404
Rbm26	6795.75241	-0.2461071	0.24158702	-1.0187099	0.30834073	0.60291798
Brd7	6848.19141	-0.2461208	0.20463576	-1.2027263	0.22908227	0.52003704
Rspo4	4.48886748	-0.2461491	0.35539601	-0.6926052	0.48855735	NA
Ccdc30	507.611499	-0.2461545	0.28595751	-0.8608078	0.38934388	0.67794934
5430435G22I	2.50716438	-0.246317	0.29311719	-0.8403364	0.40071978	NA
Prim2	4635.06338	-0.2463884	0.21631642	-1.1390183	0.25469552	0.5479142
1110059G10I	846.132085	-0.2464352	0.22412582	-1.0995397	0.27153275	0.56508022
Tubb2b	21812.5569	-0.2464601	0.21219034	-1.1615047	0.24543671	0.53833375
Ndufs8	4502.83015	-0.2465064	0.18800763	-1.311151	0.18980674	0.47143981
Hinfp	1486.42224	-0.2465722	0.19874238	-1.2406623	0.21473052	0.50176924
Gm6249	3.26899335	-0.2466503	0.37708345	-0.6541001	0.5130473	NA
D430041D05	109.570718	-0.2467003	0.31359351	-0.7866881	0.43146449	0.70688509
Sfxn5	324.164563	-0.2467677	0.28761943	-0.8579662	0.39091114	0.67903559
Ccnt1	1912.8909	-0.2467709	0.31376945	-0.7864721	0.43159097	0.70693819
Chd1l	3114.9708	-0.2469851	0.17305549	-1.4272019	0.1535217	0.42141036
Lrrc58	3340.69114	-0.2470211	0.24242335	-1.018966	0.30821913	0.60283181
Itga6	10157.7187	-0.2471731	0.17781106	-1.3900883	0.16450206	0.43755954
Egln3	1287.7904	-0.2473361	0.42730375	-0.5788296	0.56270415	0.79946653
Prss50	42.0291371	-0.2473976	0.42399692	-0.583489	0.55956414	0.79774311
Mapk8ip2	450.708877	-0.2474356	0.32792022	-0.7545603	0.45051288	0.72293741
Man1b1	5795.49993	-0.2474784	0.17423482	-1.4203731	0.15549909	0.42401655
Lrrc59	24904.689	-0.2479054	0.18308353	-1.3540563	0.17571841	0.45331736
Rab4b	2666.20211	-0.248012	0.21011657	-1.1803541	0.2378594	0.52993576
Nradd	954.023059	-0.2480919	0.21563748	-1.1505045	0.24993613	0.54345033
Puf60	8916.8372	-0.2481728	0.19218434	-1.2913267	0.19659042	0.47963252
Srbd1	3335.35104	-0.2482394	0.16423631	-1.5114771	0.13066694	0.38666893
Crisp1	420.857481	-0.2483129	0.25136996	-0.9878385	0.32323176	0.61781921
Anxa7	9837.5478	-0.2483371	0.17047975	-1.4566954	0.14520048	0.40839439
Rpusd4	2100.14924	-0.2483673	0.17351877	-1.431357	0.15232792	0.41993468
Nup85	11250.1686	-0.2485485	0.19884807	-1.249942	0.21132075	0.49799197
Ncl	201850.842	-0.2485983	0.18337641	-1.355672	0.17520356	0.45309298
Pofut2	1704.72071	-0.2488413	0.21690424	-1.1472406	0.25128221	0.54477758
Ptpn4	1005.36281	-0.2489959	0.29732086	-0.8374654	0.40233104	0.68694005

Exo5	1090.4216	-0.2490054	0.16151398	-1.5416954	0.12314764	0.37454897
Tmem256	3840.83795	-0.2492592	0.2933109	-0.8498122	0.39542949	0.68263121
Snap25	3.57452833	-0.2492983	0.32724132	-0.761818	0.44616864	NA
Nop58	34464.0923	-0.2495654	0.17702464	-1.4097776	0.15860538	0.4288771
4930511E03F	1.98033796	-0.24968	0.31264149	-0.7986143	0.42451411	NA
Gm1821	13.541854	-0.2497342	0.43222827	-0.5777831	0.5634106	0.79999829
Pcna	18661.7713	-0.2498316	0.16832474	-1.484224	0.1377495	0.39657388
Rtn4r	8.92236177	-0.2498456	0.41939994	-0.5957217	0.55136117	0.79108781
Socs4	974.545137	-0.2498459	0.26593884	-0.9394864	0.34748108	0.63979142
Mlx	3288.825	-0.2498706	0.18386167	-1.3590139	0.17414219	0.45149803
Rbp7	43.5960214	-0.2498751	0.3903979	-0.6400523	0.52213859	0.77084692
Zcchc8	8132.22554	-0.2499563	0.1851943	-1.3496978	0.17711294	0.45462566
Stat6	3365.28665	-0.2499788	0.15947903	-1.5674711	0.11700462	0.36332646
Smg1	11506.7399	-0.2500001	0.26626054	-0.9389301	0.34776661	0.63986259
Map3k14	168.692233	-0.250023	0.27348457	-0.9142124	0.36060524	0.6515362
Rpl15	23598.7361	-0.2500901	0.16145205	-1.5490052	0.12138046	0.37084235
Apopt1	1526.0764	-0.250098	0.22753302	-1.0991722	0.27169295	0.56523668
Srsf10	14217.3058	-0.2502793	0.17071885	-1.4660322	0.14263952	0.40382072
Rps10	23620.2305	-0.2502809	0.21017434	-1.1908254	0.23372212	0.52530896
Rnf222	4.32943854	-0.2503396	0.39090079	-0.6404173	0.52190132	NA
Gas1	211.349665	-0.2503571	0.3497572	-0.7158025	0.47411331	0.7401725
Wbp2	6118.8957	-0.2503743	0.17142945	-1.4605096	0.14415008	0.40602751
Btbd3	1407.78671	-0.2504389	0.22692054	-1.1036414	0.26974872	0.56269113
Mylk3	8.03520109	-0.2504421	0.408461	-0.6131359	0.53978651	0.78370087
Anapc2	5426.35973	-0.2505193	0.20022749	-1.2511734	0.21087122	0.49778092
Prdm15	1518.57317	-0.2506115	0.17628413	-1.4216342	0.15513249	0.4237087
Spata18	1.51122105	-0.2506442	0.29875329	-0.838967	0.40148783	NA
Krcc1	2361.40224	-0.2506672	0.21481075	-1.1669209	0.2432423	0.53577799
Rbbp8	4520.53586	-0.250677	0.16849561	-1.487736	0.13682054	0.39489535
Rps6ka5	1218.72235	-0.2507135	0.22141321	-1.132333	0.25749445	0.55010645
3110057012I	233.356216	-0.2507458	0.28547731	-0.878339	0.3797598	0.66881593
Zbtb20	65.1882162	-0.250862	0.33712759	-0.744116	0.45680632	0.72740069
Trim33	8499.55827	-0.2508721	0.1926098	-1.3024889	0.19274933	0.47556451
Hist1h2bp	11.2475703	-0.2508778	0.43217348	-0.5805024	0.56157584	0.79905798
Pald1	8050.50424	-0.2509435	0.18599179	-1.3492183	0.17726686	0.45473338
Trip11	1350.30428	-0.2509569	0.27551528	-0.9108637	0.36236722	0.65327607
Foxk1	1131.73614	-0.2509715	0.2583056	-0.971607	0.3312461	0.62446456
Tm2d3	1578.77972	-0.2511527	0.2522118	-0.9958009	0.31934688	0.61303091
Ada	982.21975	-0.251156	0.25005985	-1.0043834	0.31519387	0.60949429
Apol6	207.434236	-0.2512494	0.40920848	-0.6139888	0.5392227	0.78302849
Zfp207	24381.7524	-0.251299	0.15106716	-1.6634916	0.09621408	0.32400358

Cit	3061.48082	-0.2515455	0.27094875	-0.9283877	0.35320649	0.64483612
Mir2861	2.93485814	-0.251673	0.36418481	-0.6910586	0.48952873	NA
Cpox	2855.30847	-0.2517157	0.23230536	-1.0835555	0.27856194	0.57081523
Tada3	5832.56646	-0.2517572	0.21748812	-1.1575675	0.2470406	0.54002366
Ric8b	1669.45562	-0.2517959	0.20125702	-1.2511163	0.21089205	0.49778092
Kdm2b	5816.663	-0.2518284	0.24936515	-1.0098779	0.31255379	0.60703435
Fbxl14	3558.53739	-0.25195	0.20454004	-1.2317883	0.21802819	0.50605318
Six4	2933.72972	-0.2520593	0.21984079	-1.146554	0.25156601	0.5450894
4930430F08F	1413.60073	-0.2522321	0.19912096	-1.2667278	0.20525263	0.4903111
Kifc1	5911.94038	-0.2522484	0.20588926	-1.2251654	0.22051292	0.50895393
AW209491	1129.01577	-0.2522575	0.18512694	-1.3626192	0.17300256	0.45019458
2900097C17F	1016.05523	-0.2523108	0.22465623	-1.1230972	0.2613962	0.55366009
Zfp518a	6373.25873	-0.2523153	0.24239789	-1.0409138	0.29791558	0.59236481
Clpx	3576.45226	-0.25233	0.1662585	-1.517697	0.12909079	0.38406178
Golga3	2859.39241	-0.2523512	0.19071956	-1.3231532	0.18578442	0.46651464
Fkbp3	38163.8899	-0.2524503	0.21647861	-1.1661674	0.24354678	0.53577799
Gmnn	7991.31284	-0.2524607	0.19143015	-1.3188139	0.18723135	0.46836678
11-Sep	17332.031	-0.2525423	0.2050495	-1.2316165	0.21809239	0.50612666
Scarna10	5.95108084	-0.2525767	0.4037263	-0.6256136	0.53156843	0.7782358
Cyp2t4	9.08008007	-0.2527171	0.42517787	-0.5943798	0.55225815	0.79179683
Ddx26b	2114.62107	-0.2527179	0.20934569	-1.2071796	0.22736298	0.51753644
Sptbn1	21566.2909	-0.2528043	0.23837461	-1.0605338	0.28890182	0.58216601
Hmg20a	2034.67534	-0.2528542	0.16784011	-1.5065183	0.13193417	0.38843399
Aes	11496.3687	-0.2528656	0.18363263	-1.3770186	0.16850649	0.44336524
Brsk2	176.09509	-0.2529019	0.2953033	-0.856414	0.3917688	0.67980324
Olf153	42.0072882	-0.2529346	0.40459356	-0.6251572	0.53186787	0.77840121
Cops7b	2275.6832	-0.2530129	0.21517718	-1.1758351	0.23966077	0.53163981
Limd1	1213.13811	-0.253046	0.21262768	-1.1900898	0.23401112	0.52565461
Rnf123	1121.74355	-0.2530861	0.19959463	-1.2680008	0.20479767	0.49017049
Rpl21	53658.1648	-0.2531035	0.19833794	-1.2761223	0.2019123	0.48641802
Ssu72	6294.39262	-0.2531583	0.21360449	-1.185173	0.23594904	0.52775314
Smad2	4490.80963	-0.2531594	0.18180767	-1.3924574	0.16378393	0.43630265
H2-BI	546.637267	-0.2531666	0.25870905	-0.9785763	0.32778937	0.62118602
Tbl1xr1	5725.51311	-0.2531989	0.18594644	-1.3616764	0.17330004	0.45071973
Tmem86a	133.520974	-0.2532228	0.33247213	-0.7616363	0.4462771	0.71954953
Zfp955b	1861.41831	-0.2532477	0.1902166	-1.331365	0.18306894	0.46313732
Timeless	8353.8535	-0.2532613	0.2093509	-1.2097456	0.22637651	0.51656362
Tmed5	3457.19697	-0.2532651	0.21636094	-1.1705674	0.24177272	0.53421167
Vcl	8329.68197	-0.2533802	0.18658239	-1.358007	0.17446145	0.45187376
Tbc1d9b	2811.38968	-0.2534496	0.19439369	-1.3037956	0.19230327	0.4751259
Dgcr2	4669.93791	-0.2535208	0.18429749	-1.3756066	0.16894345	0.44386545

Bcl2l11	1048.52805	-0.253524	0.28446742	-0.8912232	0.37280944	0.66269681
Uqcrfs1	7777.16034	-0.2535483	0.15258705	-1.6616631	0.09658035	0.32466947
Ndufaf6	1359.08896	-0.2536642	0.20692631	-1.2258672	0.22024866	0.50877701
Golgb1	8174.17214	-0.2537618	0.18128748	-1.3997757	0.16158051	0.43255956
Rock1	6198.02481	-0.2538636	0.22203434	-1.1433528	0.25289213	0.54598821
Nfkbia	2783.49563	-0.2538867	0.1611283	-1.5756803	0.1150995	0.36004695
Zfp69	354.250331	-0.25391	0.24561311	-1.0337804	0.30123883	0.59607648
Hsf4	28.6575601	-0.2539902	0.41980042	-0.605026	0.54516173	0.78658472
Dhx29	5158.94123	-0.2541656	0.17347915	-1.4651073	0.14289166	0.40406505
Pnn	12452.9943	-0.2542978	0.16143103	-1.575272	0.11519367	0.36014812
Setd5	13895.2265	-0.2544957	0.23206574	-1.0966536	0.27279284	0.56606275
Ttc4	4435.11981	-0.2545366	0.17191536	-1.4805923	0.13871524	0.39807358
Rbm33	5855.40034	-0.2545902	0.23058868	-1.1040881	0.26955491	0.56260264
Mphosph6	5302.81069	-0.2546172	0.19996903	-1.2732833	0.20291752	0.48733798
Hs3st5	1.43467495	-0.254668	0.26801107	-0.9502144	0.34200334	NA
Rpl10a	26547.7419	-0.2546854	0.21627664	-1.177591	0.2389597	0.53094189
Fhit	34.3771368	-0.2547034	0.42736417	-0.5959868	0.55118404	0.7910861
Mmachc	2438.29648	-0.2547969	0.16673427	-1.5281614	0.12647248	0.37981113
Dctpp1	7808.64519	-0.2549341	0.215737	-1.1816894	0.23732895	0.52936065
Bhlhb9	2540.13543	-0.254959	0.23862473	-1.0684517	0.28531679	0.5782564
Nid2	26248.6608	-0.254979	0.22386165	-1.1390026	0.25470206	0.5479142
Trh	5147.86656	-0.2550389	0.38433495	-0.6635849	0.50695605	0.7622968
Gm15915	9.30811909	-0.255093	0.40655652	-0.6274479	0.53036569	0.77749971
1700001P01F	193.111904	-0.2552251	0.39752819	-0.6420303	0.5208535	0.76986886
Ccnc	4892.68797	-0.2552727	0.17134934	-1.4897791	0.13628234	0.39419575
Gigyf1	5190.45974	-0.2552875	0.19529774	-1.3071708	0.19115471	0.47328664
Btf3	24409.1074	-0.2555456	0.17488582	-1.4612142	0.14395667	0.40567894
4930594C11F	5.05006887	-0.2556899	0.41015854	-0.6233928	0.53302642	NA
Gli1	553.820564	-0.2558263	0.33611049	-0.7611375	0.44657493	0.71995509
4931440L10F	56.8919859	-0.2559231	0.40559427	-0.630983	0.52805165	0.77542315
Sostdc1	1.89938919	-0.2560116	0.28677558	-0.8927246	0.37200467	NA
Mkln1	6283.05384	-0.2560394	0.170568	-1.5010989	0.13332998	0.39033562
Cbx2	2432.2712	-0.256076	0.2380628	-1.0756657	0.2820768	0.5745352
A830082N09	87.1448906	-0.2561729	0.34897492	-0.7340726	0.46290449	0.73275933
Gnl1	5786.58554	-0.2561813	0.20930351	-1.2239702	0.22096347	0.50916681
Hip1r	1199.92214	-0.2564164	0.22816292	-1.1238302	0.26108508	0.55322715
Exosc2	5428.65104	-0.2565844	0.17060048	-1.5040073	0.13257949	0.38909721
Gnb1	28924.7592	-0.2565918	0.15026895	-1.7075506	0.08771977	0.30834767
Tbx5	11.3025666	-0.2565933	0.42935899	-0.5976195	0.55009386	0.79054705
Nmd3	10338.4562	-0.2566732	0.16821706	-1.5258454	0.12704837	0.38082677
Usp1	11864.5541	-0.2568071	0.18317157	-1.4020028	0.16091442	0.43209007

Uhmk1	825.502133	-0.2568167	0.3299938	-0.778247	0.43642339	0.71028991
Ssrp1	28389.775	-0.25683	0.18370474	-1.3980587	0.16209545	0.43334131
Slc20a1	12950.2839	-0.2571391	0.18499946	-1.389945	0.16454557	0.43755954
Med4	3505.56435	-0.2572152	0.15899968	-1.6177091	0.1057253	0.34245662
Cep5711	3543.8592	-0.2572575	0.25724841	-1.0000352	0.31729346	0.61159656
Pold3	7344.39078	-0.2572888	0.20549674	-1.2520334	0.2105577	0.49747535
Fancb	1115.8602	-0.2573795	0.17832176	-1.4433431	0.14892385	0.41399978
Itpripl2	297.721684	-0.25738	0.42227353	-0.6095101	NA	NA
Sv2b	3.31525651	-0.257435	0.34718683	-0.7414885	0.45839729	NA
Mir6921	2.94145806	-0.257437	0.3395848	-0.7580935	0.44839501	NA
Mcee	1202.68933	-0.2574837	0.21654246	-1.1890679	0.23441295	0.5263048
Rexo1	3551.96902	-0.2575278	0.22156271	-1.1623245	0.24510368	0.537854
Hps1	1393.81378	-0.2576079	0.2147481	-1.1995816	0.23030189	0.52169334
Zfp820	1459.4549	-0.2578604	0.32537651	-0.7924984	0.42807011	0.70472095
Gpr3	23.8711183	-0.257868	0.41818769	-0.6166322	0.53747734	0.78129651
Trmt2b	989.136901	-0.2580113	0.21820685	-1.1824161	0.23704065	0.52909706
Kdelr3	1307.49395	-0.2580279	0.22081092	-1.1685466	0.24258634	0.53481431
Xkrx	5.82344127	-0.2580397	0.41028906	-0.6289217	0.52940034	NA
Ddx17	37341.1595	-0.258118	0.19076504	-1.3530677	0.17603402	0.45375831
Col23a1	31.2372099	-0.2583668	0.39320449	-0.6570798	0.51112957	0.76501865
Npat	5534.04409	-0.2584663	0.22120028	-1.1684717	0.24261657	0.53481431
Commd8	4236.84697	-0.2585313	0.16934087	-1.5266918	0.12683768	0.38060552
Zfp511	1037.54282	-0.2585829	0.21209582	-1.2191797	0.22277601	0.51187791
Ptbp2	3349.16067	-0.2586398	0.20757093	-1.2460311	0.21275296	0.49939945
Impact	13009.5782	-0.2586757	0.14595159	-1.7723387	0.07633835	0.28346171
Ilkap	3350.23217	-0.2586782	0.1798475	-1.4383199	0.15034331	0.41660527
Fkbp4	52097.8462	-0.2587009	0.19961115	-1.2960241	0.19496718	0.47789096
Tmem161b	2281.93442	-0.2588375	0.18087246	-1.4310496	0.152416	0.42002857
Igsf23	235.686336	-0.2588524	0.42855429	-0.6040131	NA	NA
Tubgcp6	2555.51728	-0.2589444	0.21040963	-1.2306679	0.21844709	0.50664737
Rrp15	5630.60423	-0.2589578	0.17863601	-1.4496397	0.14715902	0.41166934
Ndufb8	9372.16072	-0.2590812	0.19681124	-1.3163945	0.18804167	0.46937977
Zdhhc14	137.923408	-0.2590882	0.3681577	-0.7037425	0.48159318	0.74482882
Dmpk	348.59035	-0.2593496	0.21969198	-1.1805148	0.23779551	0.52993576
Zfp940	1520.62252	-0.2594273	0.19892493	-1.3041466	0.19218362	0.4751259
Tcp1	57101.1768	-0.2597909	0.15524345	-1.6734422	0.09424028	0.31998486
Trp53	20394.1229	-0.2598663	0.21106174	-1.2312334	0.21823559	0.50630788
Gsg2	2499.97276	-0.2598736	0.20835767	-1.2472477	0.21230667	0.49895437
Ppm1a	8187.55939	-0.2599365	0.2242329	-1.1592256	0.24636426	0.53945517
Arl6ip6	3930.14795	-0.2599655	0.1798396	-1.4455411	0.14830597	0.41339058
Sf3a2	3406.45267	-0.2599707	0.21665104	-1.1999514	0.23015822	0.52144384

Usp42	1819.46158	-0.260051	0.21827928	-1.1913682	0.23350907	0.52506228
Zdhhc21	2317.04481	-0.2600782	0.23463968	-1.1084152	0.26768253	0.56056168
Lin28a	2688.38347	-0.2601555	0.4319631	-0.6022632	0.54699898	0.78806569
Lemd2	1985.43715	-0.2602283	0.22602271	-1.1513368	0.24959372	0.54310658
Gpam	1004.45647	-0.2602505	0.2688062	-0.9681715	0.33295872	0.626175
Eprs	44265.3633	-0.2603593	0.14151539	-1.8397951	0.06579832	0.25983486
Mfsd12	1118.67052	-0.26041	0.24268045	-1.0730571	0.28324551	0.57570918
Neur14	4206.38208	-0.2604235	0.22983464	-1.1330907	0.25717615	0.55006377
Gm15421	74.126251	-0.2604271	0.34345494	-0.758257	0.44829713	0.72108696
Lrrc29	65.476207	-0.2604939	0.39498919	-0.6594963	0.5095771	0.76413825
Mre11a	6145.79363	-0.2605748	0.17868432	-1.4582968	0.14475874	0.40736725
Gbe1	227.378221	-0.2605798	0.29944708	-0.8702031	0.38418943	0.6734141
Xrcc6	7574.1886	-0.2605957	0.17460518	-1.4924856	0.13557188	0.39328705
Stag2	7142.76635	-0.260606	0.20165758	-1.2923195	0.19624652	0.47933634
Npepps	15410.149	-0.260661	0.18549026	-1.4052544	0.15994564	0.43124038
Atp11b	9988.68787	-0.2607077	0.20350839	-1.2810659	0.20017051	0.48358734
Myt1	3.4167106	-0.2607118	0.33700659	-0.7736105	0.43916114	NA
Il6	1.39601858	-0.2607367	0.27152104	-0.9602819	0.33691336	NA
P4ha1	4869.39497	-0.2608832	0.29165561	-0.8944907	0.37105942	0.6614334
Orai2	164.313578	-0.2611853	0.30769241	-0.8488518	0.39596376	0.68281575
Slc25a12	2676.30068	-0.2612654	0.17288654	-1.5111957	0.13073859	0.38666893
Clstn1	12057.4285	-0.2613243	0.19464148	-1.3425933	0.1794037	0.4575904
Polr2b	18502.5099	-0.261336	0.1679867	-1.5556948	0.11978068	0.36826994
Snx6	8000.05302	-0.2613463	0.19792373	-1.3204397	0.18668826	0.46780361
Ncs1	840.277275	-0.2614843	0.23006115	-1.1365859	0.25571143	0.54856501
Asph	4589.15175	-0.2615808	0.19310366	-1.3546136	0.17554069	0.45314528
Hint2	1345.99457	-0.2616137	0.25486276	-1.0264884	0.30466144	0.59956683
Hes2	10.5097569	-0.2617348	0.43189376	-0.6060166	0.5445037	0.78623679
Chd8	10346.1699	-0.2618376	0.23857642	-1.0974999	0.27242291	0.56572838
Crlf3	7048.02302	-0.2618616	0.16579539	-1.5794262	0.11423834	0.35809723
Cacna1h	69.7474826	-0.2618817	0.41101779	-0.6371542	0.52402442	0.77176852
Vps54	13969.2003	-0.2620735	0.19982899	-1.3114889	0.18969265	0.4714053
Slc6a19	4.9536549	-0.2620938	0.39403013	-0.6651617	0.50594705	NA
5031434C07F	1.94065178	-0.2621428	0.28346563	-0.924778	0.35508141	NA
Fv1	47.8730886	-0.262203	0.43213569	-0.6067608	0.54400967	0.78623679
Zfp451	4815.09176	-0.2622206	0.17137156	-1.5301292	0.12598475	0.37888006
Rab18	12891.376	-0.2623085	0.17657646	-1.4855238	0.13740512	0.39592125
Scrt2	2.77193507	-0.2623449	0.33983467	-0.7719781	0.44012738	NA
Pebp1	5510.93738	-0.2623809	0.23236141	-1.1291929	0.25881648	0.55112352
Hipk1	4142.39793	-0.2625338	0.23543116	-1.1151193	0.2647993	0.5564253
Atp5b	156150.56	-0.2625926	0.15891172	-1.652443	0.09844427	0.32816868

Dnmbp	2488.86451	-0.2626047	0.23649701	-1.1103932	0.26682962	0.55937819
Heatr5a	4585.88226	-0.2626081	0.2379167	-1.1037818	0.26968778	0.56263948
Cenpq	1852.50648	-0.2626616	0.19677561	-1.334828	0.18193265	0.46108779
Tspan18	25.8158441	-0.2626965	0.42292074	-0.6211484	NA	NA
Brwd1	10224.6984	-0.2627467	0.17637385	-1.4897145	0.13629931	0.39419575
Dnm1	336.853248	-0.2627613	0.38805029	-0.677132	0.49832219	0.75670871
Tep1	1198.99193	-0.2627692	0.30954756	-0.8488815	0.39594721	0.68281575
Fam120a	12156.7078	-0.2628386	0.18657108	-1.4087854	0.15889864	0.42944608
Gulo	228.997274	-0.2628578	0.29006528	-0.9062022	0.36482883	0.6548307
Repin1	1126.73237	-0.2631839	0.20693881	-1.2717959	0.20344564	0.4880122
E330013P04F	1.41534676	-0.2633584	0.27222074	-0.9674444	0.33332193	NA
H2-K2	115.44003	-0.2635962	0.30327012	-0.8691797	0.38474884	0.67393886
Supt16	38918.0191	-0.2637926	0.18472085	-1.4280605	0.15327444	0.4210512
Tbc1d10c	130.789165	-0.2639642	0.31921769	-0.8269098	0.40828821	0.69198369
2310008N11I	5.26656889	-0.2640042	0.39515272	-0.6681068	0.50406542	NA
Cyp51	10802.3138	-0.2640133	0.2083002	-1.2674652	0.20498899	0.49027741
Ttc23	1172.45829	-0.2640743	0.27339901	-0.9658934	0.33409754	0.62729999
Exosc10	9281.2116	-0.2641023	0.17257681	-1.5303466	0.12593095	0.37885621
Mcm5	32305.3808	-0.264141	0.23536274	-1.1222721	0.26174678	0.55406701
Tmem2	3528.599	-0.2642306	0.27268137	-0.9690085	0.33254094	0.62583232
Paxip1	7905.90719	-0.2644476	0.20281788	-1.3038673	0.19227882	0.4751259
Rpl36a	33447.596	-0.2646107	0.22464091	-1.1779276	0.23882547	0.53094189
Mir18	3.85589922	-0.2648393	0.35287784	-0.7505128	0.45294595	NA
Atp6v0a1	2938.77684	-0.2648603	0.1847783	-1.433395	0.15174498	0.41871751
Uspl1	6277.74838	-0.2648838	0.19633473	-1.3491439	0.17729075	0.45473338
Vrk1	6954.52741	-0.2649154	0.16000103	-1.6557108	0.09778039	0.32672602
Zfp948	1522.48476	-0.264959	0.2833085	-0.9352315	0.349669	0.64198366
Mir6998	2.21080042	-0.2650626	0.30669892	-0.8642435	0.38745412	NA
Foxk2	5493.19094	-0.2651393	0.17909565	-1.4804342	0.13875742	0.39807902
Uxt	1151.09052	-0.2653726	0.20848819	-1.2728425	0.20307395	0.48749661
Kcnt1	12.1177757	-0.265401	0.42620434	-0.6227084	0.53347618	0.77941451
Qars	20661.2475	-0.2656267	0.19602117	-1.355092	0.17538824	0.45309298
9330159F19F	23.5376059	-0.2656473	0.38616124	-0.6879181	NA	NA
Wbp11	10915.8386	-0.2659304	0.20482094	-1.2983554	0.19416523	0.47685777
G3bp1	40768.1722	-0.2659533	0.1590169	-1.6724847	0.09442877	0.32034509
Gspt1	21326.2008	-0.2660632	0.18290487	-1.4546534	0.14576524	0.40939052
Cops4	7491.52525	-0.2661135	0.16611152	-1.6020171	0.10915182	0.34910823
Hdgf	37197.9634	-0.2661235	0.17068199	-1.5591771	0.11895447	0.36681756
Serpina9	3.46479361	-0.2662019	0.29653611	-0.8977049	0.36934291	NA
Gcnt2	7157.19778	-0.2662231	0.15486554	-1.7190595	0.08560353	0.30351586
Srek1ip1	1460.91218	-0.2662395	0.1938909	-1.373141	0.16970852	0.44511837

Pygl	232.382982	-0.2662783	0.36879423	-0.7220241	0.47027964	0.73786621
Farsb	14451.7382	-0.2662794	0.14728112	-1.8079672	0.0706116	0.27033013
Pafah1b1	18979.259	-0.2663027	0.1673191	-1.5915858	0.11147781	0.35314554
Ddx11	3284.39818	-0.2663806	0.18562808	-1.4350234	0.15128042	0.41838967
Gja1	2843.14861	-0.2664441	0.32547534	-0.8186307	0.41299712	0.69515344
Rfc4	3935.5057	-0.2665493	0.16971364	-1.5705828	0.11627958	0.36215977
Zfp644	3692.75819	-0.266571	0.21538973	-1.2376216	0.21585641	0.50281353
Car9	52.1847729	-0.2667462	0.39927345	-0.668079	0.50408319	0.76025581
Papd5	4133.92011	-0.2668822	0.25540777	-1.044926	0.29605718	0.5907089
Foxn2	6195.86779	-0.266997	0.2240504	-1.1916826	0.23338572	0.52500816
Tmem8	3915.34763	-0.267004	0.15754449	-1.6947845	0.09011631	0.31260289
Jsrp1	28.6540523	-0.2670117	0.43221344	-0.6177775	0.53672201	0.78097821
Aim1	25.615446	-0.2670669	0.40862461	-0.6535751	0.51338562	0.76592775
Rtn4	27913.5173	-0.2672873	0.16915983	-1.5800873	0.11408688	0.35801802
Mical3	3767.75576	-0.2673004	0.18635476	-1.4343632	0.15146865	0.41867917
Rad18	2246.96392	-0.2674513	0.17998611	-1.485955	0.13729102	0.39568649
Hnrnpc	46404.7602	-0.2674706	0.17695112	-1.5115506	0.13064822	0.38666893
Txlng	3369.02679	-0.2674861	0.1677276	-1.5947651	0.11076477	0.35177853
Fam189b	533.722693	-0.2675229	0.27524119	-0.9719583	0.33107132	0.62428641
Fras1	21.3332062	-0.2675587	0.42736691	-0.6260633	0.53127343	0.7782358
Mtl5	117.519286	-0.2675652	0.29769304	-0.8987958	0.36876145	0.65913197
Fezf1	4.40988173	-0.2676137	0.39715271	-0.6738308	0.50041887	NA
Trmt10c	3839.20495	-0.2676267	0.16511379	-1.6208623	0.10504718	0.34118393
Zscan12	1368.94566	-0.2676338	0.18305016	-1.4620793	0.14371949	0.40532857
AU040320	941.920247	-0.2676864	0.21743235	-1.2311249	0.21827615	0.50632643
Cyp4f13	946.828781	-0.2676865	0.23962747	-1.1170945	0.26395392	0.555747
4930404A10f	34.0507373	-0.2676906	0.4231913	-0.6325523	0.52702602	0.7745763
4921529L05F	3.20564028	-0.2678531	0.30570563	-0.8761799	0.38093223	NA
Cplx2	58.9094848	-0.2678575	0.3735933	-0.7169763	0.47338874	0.73971926
Atxn7l3	6878.54464	-0.2678907	0.23135678	-1.1579116	0.24690011	0.53979243
Cdk16	8003.25404	-0.2681729	0.16482017	-1.6270639	0.10372353	0.33917927
Adprhl2	2060.75161	-0.2681744	0.17963083	-1.4929195	0.13545826	0.39321069
Wdr48	4925.97346	-0.2683052	0.15998192	-1.6770973	0.09352346	0.3186469
Zfp946	538.737483	-0.2683373	0.22213229	-1.2080068	0.22704464	0.51714743
Tbcel	2600.87512	-0.2684005	0.23057171	-1.1640653	0.24439756	0.53699054
Slc28a1	2280.55449	-0.2684746	0.28326509	-0.9477856	0.34323863	0.63670595
Ccnl2	8272.9028	-0.2687098	0.16198221	-1.6588845	0.09713906	0.32584331
Fam134b	1877.55464	-0.2688024	0.21676637	-1.2400556	0.21495483	0.50221793
Rassf1	756.496367	-0.2688374	0.19588695	-1.3724109	0.16993555	0.44511837
Tnfrsf23	41.3483933	-0.2688583	0.40373541	-0.6659271	0.5054577	0.76107404
Vps36	4045.40165	-0.2688813	0.1696293	-1.585111	0.11294111	0.35604039

Dpagt1	1506.44952	-0.2688875	0.16988272	-1.5827832	0.11347088	0.35705903
Sf3b2	25100.0516	-0.2689737	0.17979286	-1.4960196	0.13464854	0.3921628
Ap4e1	2473.3517	-0.2690272	0.2166575	-1.2417166	0.21434114	0.50148986
Ndufv2	14779.3748	-0.2690535	0.20017882	-1.3440659	0.17892707	0.45698386
Hist1h3a	7.82442772	-0.269054	0.41284987	-0.6516994	0.51459511	0.76641122
Tfap4	2015.43239	-0.2691275	0.1836467	-1.4654634	0.14279452	0.40396535
Sephs2	9277.7834	-0.2691307	0.16673122	-1.6141593	0.10649288	0.34401139
Glt8d1	1381.78938	-0.2692218	0.23338139	-1.1535702	0.24867641	0.54187974
Htr1d	4.68421621	-0.2692625	0.36615205	-0.7353843	0.46210547	NA
Nom1	4115.98927	-0.2694358	0.18648625	-1.4448027	0.14851331	0.41357758
Sdccag3	3975.70754	-0.2694453	0.16365717	-1.6464007	0.09968129	0.33009875
1190002N15I	2243.37725	-0.2694707	0.2266076	-1.1891514	0.23438011	0.5263048
Ccdc15	388.588658	-0.2696077	0.27440627	-0.9825129	0.32584723	0.61926293
Mettl7a2	4.90319025	-0.2696838	0.38966513	-0.6920911	0.48888014	NA
Sc1t1	766.157696	-0.2696955	0.24090426	-1.1195134	0.26292117	0.55517933
Rad54l	4840.54497	-0.2697634	0.16177236	-1.6675493	0.09540523	0.32274239
Mapkbp1	1442.32792	-0.2697977	0.18358435	-1.4696117	0.14166694	0.40234221
Dstn	22862.516	-0.2698147	0.15286915	-1.7650043	0.07756305	0.28602868
Wdr4	2075.76859	-0.2699056	0.23323577	-1.1572221	0.24718164	0.54012689
Mtmr12	8738.99398	-0.2700014	0.22307693	-1.2103511	0.2261442	0.51610925
Rpl24	19252.2749	-0.2700094	0.20640283	-1.3081671	0.19081663	0.47300711
Rps16	22603.9463	-0.2700471	0.21339128	-1.2655021	0.20569138	0.49055804
Il6st	6933.42438	-0.2701432	0.24282144	-1.1125177	0.2659156	0.55798861
Foxn3	962.630429	-0.2701569	0.26601203	-1.0155814	0.30982879	0.60461696
Cirbp	2228.46512	-0.2703093	0.20204422	-1.3378719	0.1809382	0.45954106
Lrrc3b	11.9662322	-0.2705454	0.43212027	-0.6260881	0.53125715	0.7782358
Klf16	2934.99512	-0.2705867	0.19172244	-1.411346	0.15814262	0.42829606
Pcolce2	2151.58171	-0.2706361	0.27957093	-0.9680408	0.33302401	0.62622205
Kat7	15485.3058	-0.2708992	0.19765933	-1.3705358	0.17051972	0.44607049
Aoc2	169.256534	-0.2709462	0.24261537	-1.1167725	0.26409159	0.55578402
Tmsb4x	7021.00858	-0.2709643	0.29506033	-0.9183354	0.35844331	0.64959011
Ccnf	15620.5517	-0.2710206	0.19802838	-1.3685948	0.17112597	0.44725713
Kcnn2	215.832388	-0.2710483	0.31898605	-0.8497183	0.39548171	0.68263121
Fundc1	1608.93871	-0.2710708	0.20409062	-1.3281884	0.18411589	0.4644599
Hist2h2bb	4.37539749	-0.2711126	0.40393606	-0.6711769	0.50210782	NA
Pten	4945.78473	-0.2712293	0.24937761	-1.0876249	0.27676073	0.56928593
Ncapd3	7155.09667	-0.2713017	0.19400863	-1.3983999	0.16199301	0.43326619
Rph3al	169.253367	-0.2714054	0.33708556	-0.8051527	0.42073155	0.70091929
Kif24	1425.62592	-0.2714067	0.21577293	-1.2578348	0.2084515	0.4943015
Chtf18	5522.7884	-0.2714259	0.21004432	-1.2922315	0.19627698	0.47933634
Hdac4	908.090592	-0.2715489	0.27936829	-0.9720106	0.33104527	0.62428641

Emp1	1426.42784	-0.2715968	0.24510379	-1.1080891	0.26782333	0.56063005
Phactr4	2803.14654	-0.2717117	0.23365818	-1.1628599	0.24488634	0.53773334
4932416H05I	84.4922625	-0.2717749	0.33673384	-0.807091	0.41961403	0.70015213
Dhx15	27974.8281	-0.2718366	0.17680244	-1.5375161	0.12416699	0.37632446
B4galnt2	504.500794	-0.2719085	0.30607898	-0.8883605	0.37434688	0.66402058
Net1	4647.85147	-0.2719336	0.16397726	-1.6583614	0.09724455	0.32598491
Vars	14231.4258	-0.2719852	0.20570848	-1.3221875	0.18610573	0.46671992
Ripk3	1180.06989	-0.2719954	0.17546132	-1.550173	0.12110001	0.37042216
Lemd1	7.53203076	-0.2719985	0.41875026	-0.6495482	0.5159841	0.76711938
Ict1	2542.10978	-0.2720696	0.21575992	-1.2609832	0.20731489	0.4927277
Pign	2538.99991	-0.2721072	0.18972166	-1.4342442	0.15150258	0.41869854
4933406C10F	5.10826255	-0.2722215	0.36259414	-0.750761	0.4527965	NA
Zranb3	4707.838	-0.2725255	0.15334421	-1.7772141	0.07553302	0.28120995
Ttc27	5376.80571	-0.2725811	0.16759904	-1.6263879	0.10386717	0.33919327
Snord12	478.140518	-0.2727231	0.25363789	-1.0752457	0.28226474	0.57469219
Trim43c	3.17984717	-0.2727376	0.36193819	-0.7535473	0.4511211	NA
Mks1	2438.70551	-0.2729679	0.18149621	-1.5039867	0.13258479	0.38909721
Zfp385b	34.0570957	-0.272972	0.43087267	-0.6335328	0.52638574	0.77414646
Slc18b1	1033.09966	-0.272986	0.24156592	-1.1300683	0.25844744	0.55101675
Hsp90ab1	372102.434	-0.2730394	0.19811207	-1.378207	0.16813938	0.44308872
Usp33	7675.70464	-0.2731324	0.16688055	-1.6366938	0.10169446	0.33491118
Prkd3	4809.86999	-0.2731472	0.20710603	-1.3188761	0.18721053	0.46836678
Pim3	6275.56219	-0.2734567	0.20600327	-1.3274384	0.18436371	0.4644599
Ppt1	4440.95159	-0.2736312	0.1483591	-1.8443843	0.06512716	0.2584176
Senp6	7952.56515	-0.2739362	0.17800149	-1.5389546	0.12381539	0.37568579
Sec24a	2632.19238	-0.2739559	0.2748966	-0.9965779	0.31896945	0.61284294
Maob	1.61982118	-0.2739978	0.27147923	-1.0092772	0.3128417	NA
Them6	502.960445	-0.2740764	0.27896396	-0.9824796	0.32586363	0.61926293
Gne	893.338459	-0.2742179	0.19826371	-1.3830969	0.16663515	0.44115479
Zfp61	1171.24241	-0.2742258	0.21075706	-1.3011467	0.19320826	0.47593318
Agpat9	814.764346	-0.2742613	0.26643623	-1.0293695	0.30330606	0.59849162
5031439G07I	2250.15418	-0.2743792	0.15913273	-1.7242159	0.08466887	0.30178446
C2cd5	3744.30318	-0.2744614	0.20214755	-1.3577283	0.17454991	0.45195232
Hist1h2ak	4.45162373	-0.2746114	0.37348314	-0.7352711	0.46217442	NA
Hiat1	9627.57041	-0.2746175	0.16949097	-1.6202489	0.10517883	0.34146388
A630089N07	443.500141	-0.2746245	0.36552107	-0.7513233	0.45245812	0.72418447
Acot11	663.856525	-0.2747045	0.26800009	-1.0250166	0.30535536	0.5998713
Rae1	7101.88237	-0.2747227	0.16041614	-1.7125625	0.08679305	0.30640337
Nop56	24818.1413	-0.2747409	0.18275159	-1.503357	0.13274702	0.38949979
Oat	9580.46216	-0.2748966	0.17057347	-1.6116024	0.10704848	0.34516082
Uprt	64.8384289	-0.2749284	0.36362256	-0.7560817	0.44960021	0.72235184

Slc25a26	742.407256	-0.2749761	0.1956231	-1.405642	0.15983044	0.43106542
Blnk	244.988653	-0.2749824	0.37738025	-0.7286612	0.46620891	0.73498824
Fkrp	558.184206	-0.2749893	0.22409373	-1.2271175	0.21977844	0.50829485
Suco	5157.23287	-0.2749991	0.17794792	-1.5453908	0.12225175	0.37269888
Cdc7	5284.95421	-0.2751602	0.18235026	-1.5089653	0.13130766	0.38745025
Myo18a	4969.82504	-0.2751861	0.1751803	-1.5708736	0.11621201	0.36215582
Ube3b	4322.04435	-0.2752036	0.23331026	-1.1795606	0.23817502	0.53018318
Cep83	5482.404	-0.2753345	0.17427887	-1.5798503	0.11414116	0.35801802
Pef1	2278.83599	-0.2753513	0.19417234	-1.4180767	0.15616838	0.42502178
Spred2	2006.47544	-0.2754273	0.28257792	-0.9746951	0.32971153	0.62303576
Arhgap32	3475.35761	-0.2754899	0.34032934	-0.8094802	0.418239	0.6990579
Ankrd28	7624.35311	-0.2755402	0.18986359	-1.4512536	0.14670925	0.41107668
Agk	2135.15304	-0.2756565	0.19782913	-1.3934073	0.16349667	0.43566427
Palm3	3812.29185	-0.275723	0.18215138	-1.5137024	0.13010135	0.38573995
Lztr1	1986.60673	-0.2757462	0.18680202	-1.4761412	0.13990598	0.39979382
Arid1b	3047.83288	-0.2757805	0.24008695	-1.1486694	0.25069232	0.54423089
Gtse1	10319.019	-0.2758256	0.25096771	-1.0990481	0.27174711	0.56526742
Mal2	8.81118819	-0.2758956	0.42795632	-0.6446816	0.51913353	0.76930108
B130006D01I	3.41510583	-0.2759893	0.37426878	-0.7374094	0.4608734	NA
Otop2	2.11339503	-0.2760801	0.28688606	-0.9623335	0.33588213	NA
Ppp2r5c	16017.2057	-0.276101	0.16104544	-1.7144291	0.08644995	0.30564466
G530011O06	3.88351821	-0.2762036	0.3707461	-0.7449941	0.4562753	NA
Hells	33136.8061	-0.276258	0.191319	-1.4439654	0.14874871	0.41375216
Arid3b	4105.26184	-0.2763655	0.213784	-1.2927324	0.19610363	0.47919666
Galnt1	9535.03444	-0.2763704	0.21294156	-1.2978699	0.19433204	0.47696616
Set	62216.735	-0.2764124	0.186135	-1.4850101	0.13754114	0.39616638
Slc4a7	3645.19929	-0.2764756	0.28856358	-0.95811	0.33800731	0.63124194
Gcgr	21.3550551	-0.276488	0.43123112	-0.6411597	0.52141891	0.77019239
Ntan1	2899.82587	-0.2764902	0.19067087	-1.4500912	0.14703309	0.41153915
Ppp1cb	26515.5308	-0.2764931	0.20167332	-1.3709948	0.17037658	0.44589804
Ubr7	12509.4588	-0.2766477	0.19611981	-1.4106054	0.15836099	0.42858888
Pygo1	173.145536	-0.2768245	0.31545189	-0.877549	0.38018851	0.66904058
Pptc7	2754.29662	-0.2768635	0.18946272	-1.4613083	0.14393085	0.40567894
Vmn1r210	1.31193935	-0.276913	0.24488649	-1.130781	0.25814729	NA
Mpp7	2631.70831	-0.2769568	0.17996428	-1.5389543	0.12381546	0.37568579
Klf13	3920.03911	-0.2770771	0.22463024	-1.2334806	0.2173965	0.50511474
Senp1	4912.11495	-0.2770792	0.21991721	-1.2599249	0.20769644	0.49332568
Zmiz2	5427.39946	-0.2771393	0.2485347	-1.115093	0.26481059	0.5564253
4931428L18F	2.05373746	-0.2773121	0.3236919	-0.8567161	0.39160182	NA
Tusc3	2509.93029	-0.2773126	0.28026031	-0.9894824	0.32242719	0.61681205
Zfp955a	1558.20952	-0.2773874	0.21110677	-1.3139672	0.18885724	0.47028325

Ncor2	4757.93186	-0.2774327	0.25094729	-1.1055419	0.26892485	0.56201096
Ctsz	2358.95951	-0.2774604	0.23395713	-1.1859455	0.23564383	0.52749347
Cecr2	5553.94329	-0.2775076	0.22697867	-1.2226153	0.22147503	0.50971707
2700097009l	1703.46304	-0.2777847	0.21498338	-1.2921218	0.19631496	0.47933634
Ddx6	20014.8505	-0.2778245	0.21221577	-1.3091604	0.19048003	0.47243998
Ceacam2	20.6463597	-0.2779158	0.43059302	-0.6454256	0.51865143	0.76873317
Gosr1	3020.8829	-0.2781314	0.20236341	-1.3744155	0.16931274	0.44438521
Tepp	23.653924	-0.2782613	0.42223797	-0.6590153	0.50988597	0.76423377
Ap5b1	97.6050845	-0.2783939	0.32330753	-0.8610807	0.3891936	0.67794934
Rgn	11.3257133	-0.2784912	0.42644011	-0.6530606	0.51371724	0.76592775
Erlin2	5793.96239	-0.2785325	0.20790862	-1.3396873	0.18034702	0.45896455
Cmss1	1408.00556	-0.2785369	0.20598448	-1.3522226	0.17630411	0.45380054
Sco1	2441.00508	-0.2785982	0.18121577	-1.5373837	0.12419937	0.37634926
Nln	4281.2015	-0.2787092	0.20145491	-1.3834817	0.1665172	0.44106779
Nipal3	2178.08367	-0.2789262	0.17027158	-1.6381252	0.10139559	0.33428086
Clec10a	12.887526	-0.279089	0.43041704	-0.6484153	0.51671639	0.767621
Syncrip	22475.9519	-0.2792802	0.19341256	-1.4439609	0.14874996	0.41375216
F5	16.5264042	-0.2793292	0.42663657	-0.6547239	0.51264554	0.76537546
L3mbtl3	537.012006	-0.279374	0.30595214	-0.9131296	0.36117437	0.65193633
Rdh7	26.4927152	-0.2795591	0.43193952	-0.6472183	0.51749069	0.76803758
Mapk13	470.274428	-0.2797665	0.30745598	-0.9099401	0.3628541	0.65337545
Tmem72	3.14551241	-0.2798038	0.27524066	-1.0165789	0.3093538	NA
Gstk1	71.7528781	-0.2798225	0.35527556	-0.7876211	0.43091835	0.70680426
Cyp4f40	6.08561877	-0.2798285	0.38985495	-0.7177758	0.47289553	0.73930088
Prpf3	6769.38274	-0.2798434	0.20712131	-1.3511087	0.17666063	0.45416588
Actr6	2308.53969	-0.2799332	0.18034486	-1.5522105	0.12061186	0.36940975
Cct6b	293.475066	-0.2800497	0.40988769	-0.6832352	NA	NA
Car8	1665.17732	-0.2801555	0.33104495	-0.8462763	0.39739864	0.68347116
Dbf4	13811.7107	-0.2802104	0.15179914	-1.8459288	0.06490254	0.25812811
Mapk8ip3	2699.00902	-0.2803345	0.20358632	-1.3769809	0.16851816	0.44336524
Gpatch4	2819.19865	-0.2804208	0.20943779	-1.3389219	0.18059609	0.45932388
Tpm4	10207.028	-0.2804713	0.17431854	-1.6089584	0.10762544	0.34644655
Gm10778	22.0344648	-0.2804792	0.42619081	-0.658107	0.51046937	0.76464545
Wdr34	1695.89273	-0.2804904	0.19544242	-1.4351564	0.15124255	0.41838967
Slc25a35	391.990988	-0.2805512	0.28651492	-0.9791854	0.3274884	0.62076695
Rcn2	3433.13938	-0.2807144	0.18558799	-1.5125676	0.13038954	0.38629982
Igfbp6	6.2492808	-0.2807688	0.40137437	-0.6995185	0.48422803	0.74704664
Akap9	2962.46719	-0.2808446	0.25440993	-1.1039059	0.26963395	0.56260264
BC030499	18.7360604	-0.2808759	0.42394627	-0.6625271	0.50763344	0.76279908
1500015A07f	311.812915	-0.2808887	0.37516942	-0.7486984	0.45403901	0.72499853
Spink2	11.1615445	-0.2811531	0.42938064	-0.6547876	0.51260452	0.76537546

Tyro3	6952.01615	-0.2812322	0.19839117	-1.417564	0.15631808	0.42521829
Alpl2	14.4834342	-0.2815912	0.42594028	-0.6611048	0.50854508	0.76357423
9430015G10l	3118.07111	-0.2816315	0.2118429	-1.3294355	0.18370433	0.46398992
Ddx52	6008.04	-0.281805	0.20806662	-1.3543979	0.17560947	0.45318667
Prdm10	1098.21662	-0.2818773	0.25821397	-1.0916423	0.27499038	0.5675013
Xab2	7046.04321	-0.2818825	0.1736841	-1.6229607	0.1045978	0.33994888
Ccr7	12.0845946	-0.2818843	0.4314072	-0.6534065	0.51349428	0.76592775
Haus7	2557.9683	-0.2820026	0.19002368	-1.4840392	0.13779853	0.39657388
Utp15	5682.90011	-0.2820027	0.17572693	-1.6047779	0.1085427	0.34810219
Kifc5b	1940.9978	-0.2820086	0.17840942	-1.580682	0.11395076	0.35784496
Trim21	359.902835	-0.2820463	0.2157513	-1.3072751	0.1911193	0.47328664
Cul5	9369.03619	-0.2821107	0.19175693	-1.4711891	0.14123997	0.40171844
Jrk	1226.83803	-0.2821547	0.22633018	-1.2466509	0.21252551	0.49916693
Gm12250	22.554524	-0.2822279	0.4319514	-0.6533789	0.51351202	0.76592775
Mff	5106.63354	-0.2822396	0.16550689	-1.7053044	0.08813767	0.30911795
Wac	5529.05007	-0.2825757	0.18042886	-1.5661336	0.11731733	0.36378901
Csnk1e	7770.86773	-0.282678	0.24400887	-1.1584742	0.24667057	0.53953931
Gm14139	976.482214	-0.2826952	0.27175919	-1.0402414	0.29822777	0.59275818
Lin7c	11634.1477	-0.2827383	0.17656282	-1.6013466	0.10930017	0.34930682
Fra10ac1	1664.53086	-0.2827493	0.23395992	-1.2085374	0.22684062	0.51708161
Evc2	930.128651	-0.2827916	0.22198415	-1.273927	0.20268929	0.48733798
Narg2	2306.73664	-0.2829019	0.17822679	-1.587314	0.11244154	0.35490311
Mrps24	5529.21458	-0.2829279	0.23936796	-1.1819788	0.23721412	0.52931278
Yod1	400.227644	-0.2829541	0.32670722	-0.8660784	0.38644717	0.67531632
Sppl2a	2673.28381	-0.2831331	0.2075411	-1.3642268	0.17249621	0.44946602
Gpsm2	1902.33423	-0.2831878	0.18069734	-1.5671939	0.11706937	0.36345495
Oas1b	45.4207155	-0.283431	0.38476488	-0.7366343	0.46134477	0.7316309
Fam3c	3812.72933	-0.283439	0.17094879	-1.6580343	0.09731055	0.32600663
Zic5	516.800416	-0.2835101	0.34177354	-0.8295263	0.40680665	0.6907895
Arsi	3.16572784	-0.2835221	0.33232302	-0.853152	0.393575	NA
Abl1	8149.61698	-0.2835232	0.19918572	-1.4234115	0.1546169	0.42309473
Hist1h2af	2.92547404	-0.2835739	0.3134203	-0.9047721	0.36558616	NA
Nf1	1703.41923	-0.2836215	0.30519436	-0.9293143	0.35272624	0.64439796
Grik3	3892.50307	-0.2836619	0.26126941	-1.0857066	0.27760881	0.56992453
Ywhaz	19189.0189	-0.2837811	0.15108837	-1.8782459	0.06034753	0.24702934
Pramel7	1452.32293	-0.2839322	0.32965153	-0.8613101	0.38906729	0.67794934
Clcn2	2976.66297	-0.2839683	0.17859424	-1.5900194	0.11183043	0.35361429
Ptgr1	4007.1205	-0.2839798	0.2980205	-0.9528868	0.34064742	0.63407735
Pkm	161506.883	-0.2840061	0.24969084	-1.1374311	0.25535812	0.54833943
Zfp951	2932.27114	-0.284109	0.23814451	-1.1930108	0.23286513	0.52452319
Rpl27	14936.9034	-0.2841172	0.22582395	-1.2581358	0.20834264	0.49426948

Erg	4.5592097	-0.2842692	0.4001123	-0.7104736	0.47741052	NA
Dgcr6	1471.14095	-0.2842785	0.21747827	-1.3071582	0.19115899	0.47328664
Cacna2d2	334.422937	-0.2845276	0.2652634	-1.0726229	0.28344036	0.57580419
Slc25a17	4061.82634	-0.2846099	0.14942181	-1.904741	0.05681374	0.23756811
Slc9b1	1196.78213	-0.2846297	0.3195506	-0.8907188	0.37308006	0.66290767
5430421N21	2.71367549	-0.2846629	0.32624208	-0.872551	0.38290784	NA
Crabp1	994.353207	-0.2846805	0.30057583	-0.947117	0.34357916	0.63690736
Slc26a2	1150.61296	-0.2847364	0.2323615	-1.2254027	0.22042353	0.50895393
Uap1	3870.73888	-0.2847679	0.17701023	-1.6087654	0.10766764	0.34651065
Pcgf1	880.488018	-0.2848496	0.2380385	-1.1966535	0.23144162	0.52302118
Firre	6869.15937	-0.2850493	0.18936363	-1.505301	0.13224671	0.38856271
Cnbd2	103.477488	-0.2851781	0.33401266	-0.8537942	0.39321903	0.6808762
Zfp275	2319.77327	-0.2852044	0.20679311	-1.3791776	0.16784	0.44283675
Rbm41	1148.00807	-0.2853116	0.22815599	-1.2505113	0.21111284	0.49780377
Slc48a1	1333.5887	-0.2853351	0.19969576	-1.4288493	0.15304755	0.42075345
Edil3	27.5057836	-0.2853802	0.42761517	-0.6673763	0.50453181	0.76045952
Naa20	3523.06291	-0.2854242	0.21757235	-1.3118586	0.18956786	0.47129813
Vkorc1l1	6585.87852	-0.2855873	0.15141588	-1.8861118	0.05927989	0.24420176
Dusp27	3178.48351	-0.2857311	0.27235538	-1.0491113	0.29412691	0.58836733
Parp1	45479.9731	-0.2857951	0.22760234	-1.2556774	0.20923294	0.49539912
Hist1h2bj	8.28163752	-0.2858483	0.41931549	-0.6817022	0.49542725	0.75533199
Mdh1	17051.2063	-0.2858954	0.16394072	-1.743895	0.0811774	0.29446925
Copb1	12920.3623	-0.2859225	0.14481517	-1.9743958	0.04833676	0.21519751
Tmem50a	3668.79087	-0.2859246	0.19300083	-1.4814681	0.13848189	0.39777094
Ribc1	466.476481	-0.2859447	0.24307138	-1.1763816	0.23944244	0.53140707
Trmt5	2213.9671	-0.2861969	0.14923121	-1.9178087	0.05513528	0.23325384
Usp31	2257.5199	-0.286385	0.24828922	-1.1534329	0.24873274	0.54189448
Slc1a4	3235.24154	-0.2863943	0.30348526	-0.9436843	0.34533101	0.63779826
Fam118a	2553.01805	-0.2864977	0.16407229	-1.7461675	0.08078185	0.29365092
Mmp17	1623.59354	-0.2866508	0.25400329	-1.128532	0.25909529	0.55126432
Pkd1	1889.02428	-0.2866918	0.22659304	-1.2652278	0.20578967	0.49060786
Rgmb	416.23063	-0.2867061	0.2422004	-1.1837557	0.23650977	0.52813949
Srrm2	39850.9264	-0.2867135	0.23261263	-1.2325795	0.2177327	0.50559374
Fbxo38	6746.97473	-0.2867165	0.16058118	-1.7854926	0.07418145	0.27831019
Casq2	109.015648	-0.2870058	0.33961204	-0.8450992	NA	NA
Endod1	283.918263	-0.287074	0.28356917	-1.0123596	0.31136617	0.60603215
Guca1a	96.5808951	-0.2871202	0.3638597	-0.789096	0.4300559	0.70591084
Pkp4	9422.11237	-0.2872363	0.19306647	-1.4877588	0.13681452	0.39489535
Ankrd52	2203.57194	-0.2872414	0.2518699	-1.1404358	0.2541048	0.54723498
Star	98.6200578	-0.2873115	0.33046895	-0.8694054	0.38462544	0.67387452
Zfp94	164.611715	-0.2873213	0.26276142	-1.0934684	0.2741882	0.56699234

Zfp277	4441.25127	-0.2873267	0.18287978	-1.5711235	0.11615396	0.36215582
Cdk10	1444.93671	-0.2874279	0.21208844	-1.3552264	0.17534543	0.45309298
B930041F14F	635.691321	-0.2876419	0.22765866	-1.2634791	0.20641707	0.49117443
Rpain	1524.84568	-0.2876801	0.23278545	-1.2358167	0.21652671	0.50379974
Cbr1	1980.22987	-0.2877613	0.216395	-1.3297963	0.18358538	0.46376482
Ly6g6d	104.449763	-0.2878396	0.36201125	-0.7951123	0.4265482	0.70402942
Riok2	9242.38507	-0.2878451	0.16421212	-1.752886	0.07962158	0.291203
Tmem219	428.939644	-0.2879317	0.29211503	-0.9856792	0.32429055	0.618534
Hist1h2be	7.47423769	-0.2883641	0.39500421	-0.730028	0.46537305	0.73442422
Dppa4	4167.61539	-0.2884081	0.25097564	-1.1491476	0.25049511	0.54405045
Lclat1	1194.23801	-0.2884405	0.21559206	-1.3378997	0.18092915	0.45954106
Khdc1c	20.2636704	-0.2884436	0.40951736	-0.7043501	0.48121475	0.7445399
Gtf3c4	5391.48931	-0.2884924	0.20243313	-1.4251244	0.15412124	0.42233293
Tenm4	2312.81131	-0.2885957	0.29655125	-0.9731729	0.33046736	0.62369343
Cog2	2855.10195	-0.2886313	0.20059344	-1.4388869	0.15018256	0.41633446
Irf2bp2	2832.38851	-0.2888791	0.17355962	-1.664437	0.09602513	0.32385312
Gm766	7.42174382	-0.2888948	0.39974507	-0.7226976	0.46986571	0.73765956
Cd302	595.9169	-0.2891506	0.30937526	-0.9346275	0.34998028	0.64198366
Apol7a	5.66449866	-0.289165	0.38375242	-0.7535197	0.4511377	NA
Barhl1	5.2232696	-0.2892152	0.39235246	-0.7371312	0.46104258	NA
Psrc1	9759.56921	-0.2892797	0.14874871	-1.9447541	0.05180458	0.22427977
Prrc2b	28201.084	-0.2892835	0.24398177	-1.1856767	0.23575	0.52758273
Rpp30	2545.7642	-0.2892967	0.19014335	-1.5214663	0.12814287	0.38211884
Dynlt1a	559.757986	-0.2893236	0.2637735	-1.0968637	0.27270096	0.56606275
Zfp882	791.086363	-0.2895955	0.29658413	-0.9764363	0.32884828	0.62222868
Znf41-ps	301.88249	-0.2896213	0.27310636	-1.0604709	0.28893044	0.58216601
Apod	1455.51082	-0.2896389	0.38306776	-0.7561036	0.4495871	0.72235184
Iqgap2	2541.4562	-0.289697	0.21684669	-1.3359529	0.18156468	0.46060561
Ap1ar	3035.79369	-0.2897586	0.19286432	-1.5023963	0.13299479	0.38977816
Cldn9	42.0337775	-0.2899276	0.41587899	-0.6971442	0.48571257	0.74775368
Rnf112	7.4235564	-0.2902117	0.41396744	-0.7010496	0.48327204	0.74594178
AI597479	3215.96751	-0.2902768	0.16322596	-1.7783742	0.07534242	0.28071011
Jak2	1231.26637	-0.2902865	0.21089641	-1.376441	0.16868513	0.44348648
Stard8	974.29717	-0.2903888	0.23939701	-1.213001	0.22512943	0.51458839
Abcc6	28.255666	-0.290437	0.42259977	-0.6872625	0.49191733	0.75208002
Klhl25	1154.95787	-0.2904856	0.21423175	-1.355941	0.17511794	0.45309298
Bambi	789.25334	-0.2906043	0.21184757	-1.3717616	0.17013768	0.44557275
Cd276	887.285901	-0.2906158	0.27852872	-1.0433962	0.29676483	0.59122008
Cntln	168.483893	-0.2908325	0.36494224	-0.7969275	0.42549316	0.70377154
Mecp2	1531.52408	-0.2908361	0.1776319	-1.6372966	0.10156851	0.33476283
Serinc1	5804.79394	-0.2912266	0.17911492	-1.6259203	0.10396662	0.33930559

Gucy2e	21.0502674	-0.2912391	0.4246849	-0.6857769	0.49285379	0.75295896
C77370	5287.10748	-0.2912537	0.24183894	-1.2043291	0.22846242	0.51911442
Oprk1	2.34071733	-0.2912843	0.26884723	-1.0834564	0.27860588	NA
Mapk8	3484.44504	-0.2914204	0.21420299	-1.3604869	0.1736759	0.45100512
Rtn2	492.337157	-0.2914454	0.26889815	-1.0838505	0.2784311	0.57075699
Vdac1	60198.2308	-0.2915024	0.17031927	-1.7115058	0.08698778	0.30681806
Murc	102.455985	-0.2916265	0.34763111	-0.8388964	0.40152743	0.68662338
Cstb	11121.3534	-0.2916546	0.25144464	-1.1599157	0.24608314	0.53921924
Gtpbp1	5513.25768	-0.2917572	0.1969371	-1.4814738	0.13848035	0.39777094
Baz2b	7104.9418	-0.2917972	0.22811179	-1.2791852	0.20083186	0.48458281
1700030M09	5.22613473	-0.2918097	0.39254628	-0.7433766	0.45725371	NA
Mr1	31.2067283	-0.2918486	0.43030807	-0.6782317	0.49762481	0.75633679
Snhg4	1985.029	-0.2918778	0.17884256	-1.6320375	0.10267158	0.33684508
Gzmm	64.6667157	-0.2919721	0.32942917	-0.886297	0.37545752	0.66530764
Gpatch1	1878.55773	-0.2920654	0.1791025	-1.6307164	0.10295018	0.33719106
C4a	70.1650532	-0.2920892	0.33958431	-0.8601374	0.38971333	0.67799188
Papolg	3768.107	-0.2920928	0.22220738	-1.3145053	0.18867622	0.47005829
Sec24c	5857.69844	-0.2921922	0.25590638	-1.1417935	0.25353987	0.54626394
Pcmt2	1938.19222	-0.2922971	0.19097078	-1.5305852	0.12587194	0.37885621
Zfp111	1542.80642	-0.2923948	0.25866877	-1.1303832	0.2583148	0.55088501
Srp68	7297.38262	-0.2924772	0.16835938	-1.7372195	0.08234844	0.29691219
C2cd2l	713.184746	-0.2924879	0.19304471	-1.5151303	0.12973941	0.38510738
Dip2c	1510.83214	-0.2925357	0.20992818	-1.3935037	0.16346753	0.43566129
Bcl7c	709.015591	-0.2925405	0.18624987	-1.5706885	0.11625502	0.36215582
Nt5c3b	2457.05071	-0.2926346	0.22048292	-1.3272439	0.184428	0.4644599
Proser1	2201.69563	-0.2926811	0.24644561	-1.1876092	0.2349874	0.52693426
Dhx35	2943.05429	-0.2927226	0.17242863	-1.6976451	0.08957476	0.31135715
Synj2	377.299946	-0.2927327	0.29271784	-1.0000508	0.31728591	0.61159656
Ptprg	4711.98332	-0.2927788	0.26779478	-1.0932954	0.27426412	0.56699234
Atp13a3	15033.1681	-0.2928129	0.22550148	-1.2984965	0.19411676	0.47681405
Prdx4	4366.9449	-0.2931914	0.19169883	-1.5294375	0.12615602	0.37917514
Lin52	901.737393	-0.2931932	0.18867819	-1.5539325	0.12020051	0.36901616
Snord45b	43.4336854	-0.2932185	0.38559304	-0.7604352	0.44699451	0.72037167
Rex2	4.68779044	-0.2932202	0.397867	-0.7369805	0.46113422	NA
Usp7	41027.2374	-0.2932949	0.16405465	-1.7877877	0.07381026	0.27731901
Pram1	39.0562424	-0.2934455	0.42152846	-0.6961464	0.48633715	0.7479826
Pdcl3	4062.62229	-0.2935328	0.16408412	-1.7889166	0.07362826	0.27716036
Hnrnpf	10514.9258	-0.2935621	0.14081087	-2.0847971	0.03708772	0.18257395
Gorab	1115.73328	-0.2936763	0.18312457	-1.603697	0.10878086	0.34857843
Vwa5a	2167.86834	-0.2936907	0.26118777	-1.1244429	0.26082516	0.55289719
Card10	601.661239	-0.2937825	0.28286704	-1.0385886	0.29899612	0.59367833

Znhit6	2887.56775	-0.2938348	0.17767681	-1.6537602	0.09817624	0.32769667
9130221H12I	323.518331	-0.293864	0.20748455	-1.4163174	0.15668261	0.4258251
Gpd2	7891.75604	-0.2940299	0.26775904	-1.0981139	0.27215477	0.56560113
Stc1	5.67449285	-0.2940864	0.39340128	-0.7475481	0.45473276	NA
Fbxl5	8393.24462	-0.2941005	0.17764067	-1.6555921	0.09780446	0.32673623
Atpaf1	676.975998	-0.2941517	0.21055291	-1.3970441	0.16240032	0.43385798
Vps41	10680.0028	-0.2941851	0.16442453	-1.7891799	0.07358585	0.27714546
Mkrn2	3179.15272	-0.2942279	0.17697353	-1.6625533	0.09640188	0.32434998
Birc6	11007.5221	-0.294231	0.27686813	-1.0627118	0.28791269	0.58147146
Ruvbl2	13088.3032	-0.2942362	0.23807928	-1.2358748	0.21650509	0.50379974
Kcnk1	1437.08068	-0.2942561	0.19654099	-1.4971742	0.13434794	0.39168943
Yme1l1	21045.5186	-0.2942805	0.16879132	-1.7434577	0.0812537	0.29463847
Ctc1	9461.9946	-0.2943347	0.20410382	-1.4420833	0.14927888	0.41476433
Gabre	14.3322562	-0.294383	0.43000504	-0.6846037	0.49359402	0.75389732
2410007B07F	4220.65696	-0.2943959	0.19209259	-1.5325728	0.12538115	0.37863766
Arf1	20483.6415	-0.2944355	0.15238227	-1.9322164	0.0533328	0.22885717
Fastkd2	4184.14392	-0.2944576	0.15723261	-1.8727518	0.06110267	0.24894096
Rps19	32842.7636	-0.2945046	0.22446078	-1.3120536	0.18950207	0.47128524
Rb1cc1	2930.69011	-0.2945478	0.2249394	-1.3094541	0.19038058	0.47233702
Lrrc38	10.721663	-0.2946505	0.39061667	-0.7543214	0.45065624	0.72293741
Exosc7	3091.52782	-0.2946516	0.17986794	-1.6381552	0.10138933	0.33428086
Kras	6103.34647	-0.2947446	0.18868984	-1.5620588	0.11827415	0.36545911
Tbc1d14	3783.27337	-0.2947543	0.18156641	-1.6233969	0.10450458	0.3398475
Clic1	6021.97198	-0.294755	0.20994344	-1.4039732	0.16032682	0.43166
Klhdc4	3468.79824	-0.2947718	0.33529376	-0.879145	0.37932265	0.66834881
Rsl1	444.05084	-0.2948215	0.26441697	-1.1149869	0.26485604	0.55644099
E030011O05I	146.63338	-0.2948277	0.30229652	-0.975293	0.32941492	0.6228245
Epn2	8737.25556	-0.2948971	0.22983458	-1.2830839	0.19946267	0.48250548
Msl1	4057.09557	-0.2949678	0.17003438	-1.7347539	0.08278441	0.29800471
Ewsr1	25841.8686	-0.2951251	0.16958169	-1.7403123	0.0818042	0.29577705
Fut1	10.0827503	-0.2953153	0.43225097	-0.6832034	0.49447832	0.7544987
Mir6392	3.07342135	-0.2954083	0.34291152	-0.861471	0.38897866	NA
Copg1	12506.4587	-0.2955072	0.18277978	-1.6167388	0.10593468	0.34270652
Scn3a	498.446909	-0.2956564	0.41897851	-0.7056601	NA	NA
Zfp418	613.822726	-0.2956812	0.20940404	-1.4120129	0.15794617	0.42791306
Magohb	1280.01585	-0.2957053	0.22605393	-1.3081184	0.19083317	0.47300711
4930558C23F	38.5573019	-0.2957152	0.41903688	-0.7057021	0.48037341	0.74407463
Zfp961	11509.9525	-0.295746	0.21591158	-1.3697554	0.17076328	0.44653435
Thoc5	5839.89609	-0.295814	0.17930746	-1.6497586	0.09899231	0.32906946
Tmem214	3408.06588	-0.2958386	0.1747311	-1.6931078	0.09043496	0.31328893
Ttc26	1163.96643	-0.2959404	0.18101262	-1.6349159	0.10206668	0.33556847

Rpl23a	41348.8945	-0.296148	0.24883244	-1.1901503	0.2339873	0.52565461
Myo9b	6734.89575	-0.296298	0.21917215	-1.3518961	0.17640856	0.45396269
Nfatc3	7358.42149	-0.2964609	0.23875699	-1.2416845	0.21435297	0.50148986
Braf	2994.94181	-0.2964856	0.21464024	-1.3813141	0.16718241	0.44179059
Cops5	9908.72464	-0.2966244	0.15824569	-1.874455	0.06086774	0.24837426
Tmem11	2973.60825	-0.2967655	0.20984056	-1.414243	0.15729058	0.42688059
Aptx	1098.41404	-0.2967724	0.19936269	-1.4886056	0.13659125	0.39481981
Nfe2l1	21673.8922	-0.2968117	0.19724058	-1.5048204	0.13237025	0.38876105
Ing5	5395.28712	-0.2968894	0.15879072	-1.8696896	0.06152693	0.24981862
Srgn	396.324837	-0.2968943	0.35521398	-0.8358181	0.40325725	0.68761552
Hebp2	212.021269	-0.2972364	0.35004869	-0.8491287	0.39580968	0.68276647
Nadsyn1	617.298811	-0.2972863	0.22737752	-1.3074567	0.19105766	0.47327941
Ppp1r9a	790.270543	-0.2973108	0.27110805	-1.0966505	0.2727942	0.56606275
Tex14	4928.82224	-0.2973479	0.20526597	-1.4485982	0.14744982	0.41204462
Hsd17b11	1668.71343	-0.2973973	0.18868539	-1.5761541	0.11499028	0.35980159
Wdr89	1222.07913	-0.2974418	0.22992481	-1.293648	0.19578704	0.47884164
Ubl4	1078.52281	-0.2974745	0.17741774	-1.6766894	0.09360323	0.3186567
Cbr2	7.33422569	-0.2975858	0.29173464	-1.0200564	NA	NA
Gins2	3611.88043	-0.2976059	0.16850928	-1.7661098	0.07737743	0.28561324
Lgi2	398.358382	-0.2976524	0.4064523	-0.7323183	0.46397433	0.73363141
Fam71f2	14.6397905	-0.2977795	0.43222799	-0.6889408	0.49086055	0.75176014
Nsmce2	3462.68232	-0.2978445	0.16224594	-1.8357592	0.06639329	0.26121826
Ift88	1104.16213	-0.2979295	0.22519672	-1.3229744	0.18584388	0.46651464
Zc3h14	10725.8304	-0.2981743	0.16303772	-1.8288668	0.06741957	0.26349376
Mbtd1	8983.68613	-0.298313	0.21689285	-1.3753936	0.16900945	0.44394407
Pak4	5432.97846	-0.2986136	0.1770036	-1.6870483	0.09159406	0.31522522
Tmem52	15.4857312	-0.2986651	0.42514933	-0.7024946	0.48237077	0.74506649
Ccdc36	160.736577	-0.2986763	0.32757833	-0.9117707	0.36188942	0.65256752
Kctd3	3907.22721	-0.2986838	0.15626709	-1.9113673	0.05595739	0.23556941
Mzt1	6421.86027	-0.2989456	0.18725675	-1.5964478	0.11038886	0.35105463
Mnd1-ps	9.04874901	-0.2989517	0.42034201	-0.7112107	0.47695368	0.7420212
Dnajc2	14282.3817	-0.2990089	0.15387184	-1.9432332	0.05198799	0.2249486
Rnf19a	2166.06084	-0.2990728	0.20917705	-1.4297591	0.15278618	0.42037826
Mrpl12	6413.12766	-0.2990892	0.20398581	-1.4662256	0.14258683	0.40374504
Mical1	2416.83988	-0.2990977	0.18315392	-1.6330403	0.10246052	0.3363451
Slc25a23	1267.90163	-0.2991434	0.23457633	-1.2752498	0.20222083	0.48692251
Atp6v1g1	5000.21434	-0.2994089	0.26181446	-1.1435919	0.25279293	0.54598821
Gatc	1108.40511	-0.2994115	0.20024633	-1.4952161	0.13485806	0.39242882
Gabpb1	3835.02569	-0.2994293	0.14452568	-2.0718071	0.03828343	0.18657026
Smg6	4299.80642	-0.2994967	0.24603549	-1.2172905	0.22349371	0.51276935
Sdha	21966.8714	-0.2995234	0.15307594	-1.9566983	0.05038296	0.2207437

Rpap1	9659.41149	-0.2995281	0.22820891	-1.3125171	0.18934573	0.47112247
Pld1	518.289494	-0.2996141	0.23529069	-1.2733784	0.20288379	0.48733798
Calu	31551.2809	-0.2996213	0.18362951	-1.6316623	0.10275065	0.33693244
Srsf5	23913.5642	-0.2996525	0.19092305	-1.5694935	0.11653299	0.3624409
Rpl18	49969.3039	-0.299696	0.22780026	-1.3156086	0.18830546	0.46953088
Dis3	7772.49622	-0.2998149	0.20597783	-1.4555688	0.14551186	0.4089048
Rxb	2696.85985	-0.299826	0.19285275	-1.5546887	0.12002023	0.36873132
Slc22a18	265.396919	-0.299858	0.41294054	-0.726153	0.467745	0.735927
Ptcd2	3818.06148	-0.3000222	0.16522996	-1.8157855	0.06940328	0.26821331
Tmem170b	800.859876	-0.3000725	0.23602245	-1.2713727	0.20359608	0.48825228
Prrc1	12951.6085	-0.3001101	0.16872473	-1.7786966	0.07528952	0.28064941
Gss	8181.67464	-0.3001246	0.16701426	-1.7969998	0.07233565	0.27429691
Cacna1i	11.2769205	-0.3003027	0.43125542	-0.6963454	0.48621256	0.7479571
Cog6	2300.32125	-0.3003251	0.19017191	-1.5792298	0.11428336	0.35816616
Rnf145	4072.01576	-0.3004344	0.17868677	-1.6813468	0.09269558	0.31709391
Prss8	812.408681	-0.3006888	0.37277705	-0.8066183	0.41988645	0.70031666
Cct8	59848.1604	-0.3007274	0.14788436	-2.033531	0.0419989	0.19696891
Acap1	1161.4827	-0.3008333	0.43022938	-0.6992392	0.48440255	0.74712338
Uba3	10425.838	-0.3008518	0.17824178	-1.6878858	0.09143315	0.31492289
Ddx27	8882.96995	-0.3008602	0.18710403	-1.6079838	0.10783874	0.34684596
Cntrob	2684.08557	-0.3010252	0.18273343	-1.6473463	0.09948689	0.32999971
Tomm20	11150.5729	-0.3011588	0.20278278	-1.48513	0.13750939	0.39614831
Dnah7a	7.56091068	-0.3011665	0.36252206	-0.8307537	0.4061128	0.68991262
Syne2	4889.784	-0.3011737	0.33438604	-0.9006768	0.3677602	0.65810136
Sae1	23665.6473	-0.3012037	0.17055178	-1.7660544	0.07738672	0.28561324
Med26	2047.54784	-0.3012646	0.27795816	-1.0838486	0.27843194	0.57075699
Gpatch8	5387.67823	-0.3013524	0.22874416	-1.317421	0.18769756	0.46907513
Dsc3	3.87429779	-0.3013888	0.36733877	-0.8204655	0.41195079	NA
Mta3	5227.403	-0.3015509	0.14418913	-2.0913565	0.03649612	0.18115263
Armc9	802.419661	-0.3015768	0.22894508	-1.317245	0.18775652	0.4691198
Prok2	7.72286656	-0.3015968	0.33635327	-0.8966667	0.36989677	0.66024881
Drg1	11677.616	-0.3015976	0.19267444	-1.5653224	0.11750734	0.36401527
Ralgapb	4556.76312	-0.301604	0.21798395	-1.3836063	0.16647905	0.44104185
Dhrs7c	3.8358972	-0.3016662	0.30438032	-0.9910833	0.32164492	NA
Acat1	2673.64653	-0.3017045	0.26773929	-1.1268591	0.25980205	0.55186199
Lrriq1	21.5626929	-0.3018252	0.42335734	-0.7129325	0.47588753	0.74133857
Gpr162	86.6150957	-0.3018754	0.38852703	-0.776974	0.43717408	0.71113955
Gm17066	3502.3622	-0.302011	0.17968352	-1.680794	0.09280293	0.31711237
Fan1	698.333098	-0.3020784	0.26106321	-1.1571084	0.24722806	0.54012976
10-Sep	2838.74771	-0.3021639	0.20082656	-1.5046013	0.13242661	0.38877972
Pik3c2a	4108.24925	-0.3022471	0.22366446	-1.3513416	0.17658604	0.45416588

Slc38a3	130.088831	-0.3022888	0.40339144	-0.7493683	0.45363523	0.72463799
Uhrf1bp1l	3511.69076	-0.3024289	0.21318599	-1.4186152	0.15601123	0.42474275
Igj	3.27782211	-0.3025639	0.36655607	-0.8254233	0.40913132	NA
Wdhd1	8575.71406	-0.3026105	0.2059996	-1.468986	0.14183659	0.40253636
Tlhc1	712.308605	-0.3026141	0.24415154	-1.2394519	0.2151782	0.50251332
Etnk2	400.099074	-0.3026924	0.28010838	-1.080626	0.27986351	0.57228058
Bai3	12.3905145	-0.3027631	0.42977578	-0.7044675	0.48114168	0.7445399
Pou2f2	16.7495529	-0.3027647	0.43117823	-0.70218	0.48256691	0.74514925
H2-Ke6	1101.35672	-0.3030303	0.25677672	-1.1801315	0.23794792	0.52998296
Triml2	5586.67949	-0.3031282	0.43180999	-0.7019945	NA	NA
Zfp808	2084.26542	-0.3031479	0.1927534	-1.5727243	0.11578268	0.36140835
Mmd	850.985595	-0.3032449	0.24907458	-1.2174863	0.22341923	0.51267412
Aars2	2979.64018	-0.3032775	0.20066652	-1.511351	0.13069905	0.38666893
Magi2	55.1256121	-0.3033572	0.4044582	-0.7500336	0.4532345	0.72431158
Wnk1	20118.2059	-0.3034053	0.24909267	-1.2180419	0.22320805	0.51226511
Nfya	4803.00731	-0.3035739	0.23474415	-1.2932116	0.19593788	0.47901745
Vps25	5988.02255	-0.3036123	0.1960846	-1.548374	0.12153227	0.37123324
Col22a1	129.41502	-0.3036458	0.36103609	-0.8410399	0.40032557	0.68539722
Tcf7	4133.14257	-0.3036712	0.18482089	-1.6430568	0.10037119	0.33188867
Bfsp1	64.6402665	-0.3038071	0.38753652	-0.7839444	0.43307273	0.70818326
2810417H13l	3873.53303	-0.3040736	0.20399913	-1.4905633	0.13607619	0.39391677
Mir704	2.45788282	-0.3041185	0.34601374	-0.8789203	0.37944449	NA
Rabep2	1574.81869	-0.3042055	0.18784458	-1.619453	0.10534982	0.34173866
Hvcn1	1905.83128	-0.3042991	0.23050264	-1.3201545	0.18678344	0.46781595
Ankhd1	9114.05524	-0.3043386	0.22374968	-1.3601745	0.1737747	0.45100512
Ii2	3.11322602	-0.3043489	0.37551692	-0.8104798	0.41766448	NA
Krba1	1539.11938	-0.3043549	0.22916798	-1.3280864	0.18414957	0.4644599
Trim71	4728.64089	-0.304394	0.28949044	-1.0514819	0.29303731	0.58676317
Pddc1	1944.05792	-0.3046732	0.17402037	-1.7507905	0.07998201	0.29183488
Nxph4	27.7726286	-0.3047195	0.43199939	-0.7053703	0.48057982	0.74425276
Cdr2l	1791.89158	-0.3047466	0.22040546	-1.3826637	0.16676801	0.44135625
Prss40	4.13940747	-0.3047999	0.37458201	-0.8137068	0.41581296	NA
Nacc1	12857.7192	-0.3049689	0.23832597	-1.2796295	0.20067548	0.48443098
Bri3bp	6842.22155	-0.3050543	0.17505667	-1.742603	0.08140299	0.29480621
Nek4	1368.95703	-0.3050604	0.19291648	-1.5813079	0.11380764	0.35761218
Slc5a3	632.686844	-0.305114	0.28330369	-1.0769856	0.2814867	0.5737239
Utp18	9616.54192	-0.305138	0.16717244	-1.8252892	0.06795741	0.26474569
Zbtb7a	2443.87408	-0.3052567	0.21461165	-1.4223677	0.15491953	0.42364842
Vegfa	5476.55074	-0.3054801	0.35179343	-0.8683507	0.3852024	0.67435354
Zfp318	3709.05816	-0.305574	0.18895094	-1.6172135	0.10583221	0.34251753
Hao	19.8851639	-0.3056265	0.43136859	-0.7085042	0.47863221	0.74302874

Zbtb26	1803.46067	-0.3056378	0.2380116	-1.2841299	0.19909652	0.48241663
Ube3a	6042.03956	-0.3057648	0.24026875	-1.2725948	0.20316187	0.48758743
Crk	12346.3386	-0.3059041	0.19238569	-1.5900564	0.1118221	0.35361429
Tlk1	7329.56135	-0.3059299	0.20977751	-1.4583543	0.14474292	0.40736725
1700019E08F	6.35313282	-0.3059513	0.40683562	-0.7520268	0.45203492	0.72396798
Zmym4	10290.5489	-0.3059657	0.19532273	-1.5664625	0.11724039	0.36363535
Prkci	16365.5911	-0.30607	0.17386217	-1.7604175	0.07833705	0.28826774
Snord37	12.6079	-0.306135	0.42412108	-0.7218104	0.47041105	0.73788201
Lrp6	4905.11262	-0.3061727	0.22055714	-1.3881787	0.16508263	0.43853774
Rab7	4532.672	-0.306554	0.1913037	-1.6024467	0.10905686	0.34903212
Ltn1	7216.92585	-0.3065968	0.20889446	-1.4677117	0.14218255	0.40296716
Sez6	29.9263853	-0.3066789	0.42970071	-0.7137035	0.47541054	0.74093411
Smardc1	12371.9512	-0.3068085	0.22068874	-1.3902317	0.16445854	0.43755257
Rest	10565.0853	-0.3068476	0.30018531	-1.0221939	0.30668914	0.60112463
Slc44a1	4275.39119	-0.3068855	0.27444753	-1.1181938	0.26348423	0.55541671
A930016O22	12.2680833	-0.3069881	0.43119785	-0.7119426	0.47650033	0.74161007
Cd99l2	847.7981	-0.3070539	0.22390967	-1.3713292	0.17027235	0.44577531
D930048N14	399.074514	-0.3070792	0.25677019	-1.1959301	0.23172386	0.52302118
Dph6	2500.39182	-0.3072015	0.18847994	-1.6298897	0.10312482	0.33766428
A830018L16F	694.87866	-0.307256	0.29110129	-1.055495	0.29119898	0.58491802
Gemin7	2016.50992	-0.3073502	0.21800507	-1.4098306	0.1585897	0.4288771
Nsun2	22820.2349	-0.307357	0.18011898	-1.7064112	0.08793154	0.30877503
Grasp	1017.19741	-0.3073763	0.22710185	-1.3534733	0.17590448	0.4537221
Stk3	4714.66815	-0.3074169	0.23586003	-1.3033868	0.19244273	0.47517894
Prmt3	6559.20779	-0.3074395	0.17143542	-1.7933255	0.07292089	0.27537088
Spesp1	76.3161985	-0.3075207	0.38714276	-0.7943341	0.42700097	0.70407759
Prdx3	6040.58518	-0.3076249	0.15397765	-1.9978539	0.0457325	0.20779516
Cnep1r1	2799.65533	-0.3077267	0.18690003	-1.6464778	0.09966542	0.33009875
Poglut1	10404.2539	-0.3078301	0.20490465	-1.5023089	0.13301734	0.38977816
Apool	1992.26918	-0.3078662	0.2179063	-1.4128377	0.15770346	0.42767192
Smurf2	3763.79353	-0.3079066	0.20512518	-1.5010667	0.1333383	0.39033562
Rpl8	102094.832	-0.307926	0.20496399	-1.502342	0.1330088	0.38977816
Klk8	614.776137	-0.3079858	0.34350081	-0.8966085	0.36992785	0.66024881
Eif3l	31058.8575	-0.3081796	0.2043123	-1.5083753	0.13145851	0.38762065
Tgs1	5309.86834	-0.3082352	0.17990351	-1.7133362	0.08665071	0.30611204
Ankle2	5484.36601	-0.3082698	0.14845565	-2.0765114	0.03784668	0.1850873
Ppia	93546.3702	-0.3083866	0.17963065	-1.7167815	0.0860191	0.304642
Rps6ka4	793.679185	-0.3084301	0.2910736	-1.0596293	0.28931327	0.58255996
Cep44	2107.63727	-0.3085417	0.2057669	-1.4994718	0.13375128	0.39097108
Armcx5	729.163594	-0.308608	0.24153822	-1.2776777	0.20136309	0.48541272
Trak1	3899.25134	-0.3087166	0.16164693	-1.9098204	0.05615634	0.2360874

Tpr	23382.9762	-0.3087224	0.24603071	-1.2548126	0.20954679	0.49577373
Dimt1	2697.46009	-0.30877	0.15782694	-1.9563833	0.05042001	0.2207437
Elovl6	22110.9172	-0.3087979	0.23546087	-1.3114615	0.18970191	0.4714053
Gtf2h2	3319.655	-0.3088395	0.15639193	-1.9747791	0.04829323	0.21506529
Rps3	129645.147	-0.3088614	0.21650614	-1.426571	0.15370358	0.42148552
Cysltr2	5.47982433	-0.3089101	0.25570695	-1.2080628	NA	NA
Secisbp2l	2286.89088	-0.3089163	0.23994225	-1.287461	0.19793365	0.48094783
Adam23	804.21702	-0.3090003	0.32954957	-0.9376444	NA	NA
Gypa	4.93466503	-0.3090287	0.37296411	-0.8285749	0.40734502	NA
Cds1	519.726267	-0.3090923	0.25599138	-1.2074326	0.22726559	0.51745348
Kazn	3961.69792	-0.3090937	0.16964946	-1.8219549	0.06846182	0.26602944
Drg2	5360.68383	-0.3092557	0.24621113	-1.2560588	0.20909465	0.49516588
Gm12530	28.6391075	-0.3093563	0.42590291	-0.726354	0.46762179	0.735927
Aaed1	977.607888	-0.3094208	0.25973874	-1.1912771	0.23354484	0.52506228
Gpalpp1	4238.67675	-0.3095381	0.18210575	-1.699771	0.08917401	0.31092939
Pnlsr	10052.2153	-0.3096454	0.15026529	-2.0606584	0.03933565	0.18954651
Xrcc3	781.454797	-0.309649	0.21520536	-1.4388535	0.15019203	0.41633446
Pttg1	3149.29076	-0.3098048	0.43175712	-0.7175442	0.47303837	0.73939288
Dennd4b	1382.9066	-0.3098239	0.1837091	-1.6864917	0.09170113	0.3153569
Ppl	217.494331	-0.3098498	0.29950232	-1.0345488	0.30087968	0.59559316
Tdrd7	182.573431	-0.3098856	0.38665907	-0.801444	0.42287464	0.70197732
Aldoc	2502.5966	-0.310031	0.24434321	-1.268834	0.20450028	0.48978652
6330549D23l	45.2047663	-0.3104262	0.37895233	-0.8191694	0.41268976	0.69515344
Ttf1	3033.59547	-0.3104574	0.20707875	-1.499224	0.13381552	0.39101
Fbxo43	9.51111625	-0.3105014	0.42612226	-0.7286675	0.4662051	0.73498824
Ptch2	806.511687	-0.3105857	0.27123984	-1.1450594	0.25218455	0.54597271
Cltb	3471.12	-0.3107014	0.22815541	-1.3617973	0.17326186	0.45071973
Sema7a	360.002802	-0.3108415	0.26184581	-1.1871166	0.23518162	0.52698982
Sdc4	8544.27119	-0.3110334	0.31144076	-0.998692	0.31794391	0.61184825
Actr2	29714.7299	-0.311106	0.1657881	-1.8765279	0.06058283	0.24771956
Zbtb49	345.498072	-0.31119	0.21880214	-1.4222439	0.15495545	0.42364842
Snrnp27	4653.74631	-0.3113619	0.20764702	-1.499477	0.13374993	0.39097108
Arpp21	4.70981223	-0.311383	0.34112768	-0.9128048	0.36134521	NA
C2cd4c	34.2786875	-0.3114603	0.40164102	-0.7754692	0.43806243	0.7119144
Zbtb16	34.8242642	-0.3115067	0.42628585	-0.7307461	0.46493422	0.73410475
Tbc1d15	7642.17686	-0.3115565	0.16253479	-1.9168602	0.0552557	0.23353996
Aif1l	481.456819	-0.3115659	0.33180579	-0.9390007	0.34773037	0.63986259
Smpd1	609.27072	-0.3116631	0.23198436	-1.3434659	0.17912117	0.45716614
Zfp119b	623.296189	-0.311673	0.19789244	-1.5749618	0.11526525	0.3601547
Zfp874a	1643.38477	-0.3117414	0.30837372	-1.0109206	0.31205442	0.60659478
Cdk19	2503.14807	-0.3117431	0.18406379	-1.693669	0.0903282	0.31312835

Klf1	44.4546552	-0.3117849	0.3828528	-0.8143728	0.41543144	0.69773996
B020014A21I	3.27493772	-0.3118404	0.28470019	-1.0953292	0.27337245	NA
Brd8	10899.0189	-0.3118491	0.18092014	-1.7236839	0.08476493	0.3019884
Ghdc	807.030575	-0.3119458	0.24483463	-1.2741082	0.20262506	0.48732173
Zfp316	177.247622	-0.3119724	0.30360829	-1.027549	0.30416205	0.59904052
Atcay	27.3125819	-0.3121867	0.41111135	-0.7593686	0.4476321	0.72071395
Slc38a10	8807.57109	-0.3123136	0.2021171	-1.545211	0.12229524	0.37275837
9130409I23R	5.01826452	-0.312315	0.40507011	-0.7710146	0.44069826	NA
Slc25a15	4053.29221	-0.3123318	0.23391879	-1.3352146	0.18180613	0.46099022
1700007L15F	155.152747	-0.3123842	0.30910632	-1.0106045	0.31220578	0.60664161
Xiap	7016.79202	-0.3126552	0.21859519	-1.4302929	0.15263297	0.42030588
Pmel	2179.73406	-0.312666	0.29602326	-1.0562211	0.2908672	0.58476633
D15Ertd621e	10872.0372	-0.3126989	0.17913422	-1.7456126	0.0808783	0.29393279
Pigv	690.938083	-0.3127364	0.19044041	-1.6421744	0.10055386	0.33235136
Fads1	9828.75798	-0.3127467	0.18772255	-1.6660052	0.09571237	0.32323331
2610528A11f	10.0496407	-0.3127702	0.43186061	-0.7242388	0.46891916	0.73673084
Pgm1	6946.37551	-0.3128101	0.1716302	-1.8225822	0.0683667	0.26579263
Prtn3	6.55375186	-0.3128588	0.37891258	-0.8256755	0.4089882	0.69259925
Eya4	4.65591243	-0.3128913	0.40451353	-0.7735003	0.43922636	NA
Tab1	884.499718	-0.3128967	0.18868985	-1.6582594	0.09726513	0.32598491
4930519F16F	163.813361	-0.3129184	0.33853866	-0.924321	0.3553192	0.64696432
Ltv1	8178.18726	-0.3129307	0.15758787	-1.9857536	0.04706069	0.21114854
Ankrd10	8697.34439	-0.3133116	0.24882308	-1.2591741	0.20796744	0.49345463
Arhgef38	2.58166736	-0.3133519	0.32013524	-0.9788112	0.3276733	NA
Rps26	44108.3745	-0.3134988	0.23704044	-1.322554	0.18598374	0.46656448
Rufy1	1140.39795	-0.3135967	0.20708728	-1.5143212	0.12994439	0.38549508
Mtg1	1780.51951	-0.3136399	0.21633496	-1.4497883	0.14711756	0.41165516
Hrh3	7.48730563	-0.3136462	0.41326858	-0.7589403	0.44788829	0.72087942
Rnf168	5097.62603	-0.3137153	0.19738296	-1.5893735	0.11197608	0.35385899
Nprl2	1110.27112	-0.3137406	0.22035739	-1.4237808	0.15450994	0.42295308
Rtn4ip1	1678.93973	-0.3138349	0.15761083	-1.9912012	0.04645877	0.20973362
2900056M20	791.462195	-0.3139308	0.24469724	-1.2829357	0.1995146	0.48250548
Dnajc28	217.548583	-0.3139579	0.25545819	-1.2289992	0.21907209	0.50756705
Nlrp9b	163.472504	-0.3140489	0.40722649	-0.7711898	0.44059445	0.71461037
Arid4b	3557.14131	-0.3140741	0.20587153	-1.5255832	0.12711371	0.38087577
Emp3	96.6048048	-0.3141146	0.39796602	-0.7893	0.4299367	0.70586418
Ostc	7685.35119	-0.3142173	0.18360928	-1.7113368	0.08701896	0.30681806
Hist1h1t	1.99338909	-0.3142683	0.30784445	-1.0208673	0.30731729	NA
Cct3	55091.6902	-0.3143212	0.17359994	-1.8106068	0.07020173	0.26975714
Asna1	16360.7427	-0.3143681	0.18666576	-1.684123	0.09215789	0.3161216
A230001M1C	1.96415209	-0.3144355	0.30752527	-1.0224705	0.30655824	NA

Frem1	1.9298984	-0.3145709	0.30973292	-1.0156198	0.30981049	NA
Tnrc6a	6804.45479	-0.314602	0.19077108	-1.6491072	0.09912567	0.32938105
Kcnn3	20.3180855	-0.3146781	0.4265244	-0.7377728	0.46065251	0.73112954
Crocc	3322.46512	-0.3147101	0.21721491	-1.4488419	0.14738173	0.41204462
Ralb	8523.95707	-0.3150423	0.19902441	-1.5829328	0.11343679	0.35702398
Ncaph2	12490.3827	-0.3150562	0.18281862	-1.7233268	0.08482945	0.30207154
2810428115R	2093.84413	-0.3152237	0.29013626	-1.0864679	0.27727202	0.56955371
Dph1	1430.11789	-0.3153642	0.18808448	-1.6767159	0.09359806	0.3186567
Gprc5d	1.66635937	-0.3154009	0.28351074	-1.1124829	0.26593057	NA
Cdt1	9240.63443	-0.3154214	0.23510028	-1.3416461	0.17971077	0.45799446
Chrna7	91.9952744	-0.3154306	0.37454277	-0.8421751	0.39968993	0.68491125
Nol4	13.7720846	-0.3155724	0.43075493	-0.7326031	0.46380053	0.73350575
Lrriq4	512.945286	-0.3156206	0.34724995	-0.9089147	0.36339515	0.65367309
Brip1	1975.87512	-0.3156224	0.20140835	-1.567077	0.11709668	0.36346717
Klk14	5.27824545	-0.3157445	0.41154925	-0.7672095	0.44295699	NA
Ccdc51	699.391304	-0.3157848	0.21105103	-1.4962485	0.13458891	0.3921626
Dlg5	7709.86305	-0.3158669	0.22098289	-1.4293726	0.15289718	0.42060925
Cenpv	3735.04339	-0.3159124	0.23965387	-1.3182028	0.18743578	0.46869494
Prrx2	86.6298336	-0.315919	0.42247813	-0.7477761	0.45459523	0.72518943
Rilpl2	635.046041	-0.3159795	0.25338117	-1.2470519	0.21237849	0.49904772
Acn9	472.426659	-0.3161167	0.22234244	-1.4217558	0.15509716	0.4237087
Pitrm1	11597.2442	-0.3162385	0.15855731	-1.9944744	0.04610024	0.20870592
Mllt10	9312.86884	-0.3162964	0.19460197	-1.6253504	0.10408792	0.33939891
Frmd5	331.498157	-0.3163812	0.37428758	-0.845289	0.39794952	0.68393999
Exosc8	7701.32748	-0.3164276	0.21508027	-1.4712072	0.14123508	0.40171844
Fktn	1249.0551	-0.3164589	0.2770135	-1.1423953	0.25328975	0.54616042
Snora23	20.3296859	-0.3164605	0.43206522	-0.7324368	0.46390198	0.73359159
Atxn7l2	481.407782	-0.3165427	0.2897429	-1.092495	0.27461559	0.56715903
Oit1	10.4876397	-0.3166005	0.42743771	-0.7406938	0.45887909	0.72943154
Rapgef1	6823.45384	-0.316922	0.21821387	-1.452346	0.14640542	0.41044722
Nexn	64.0014581	-0.3169745	0.39083258	-0.8110237	0.41735204	0.69868745
Snrpd3	9577.75101	-0.316989	0.17483007	-1.8131261	0.06981237	0.26899213
Rbm44	2400.03261	-0.3170724	0.43227156	-0.7335029	0.46325175	0.73297798
Zbtb37	330.1946	-0.3171554	0.31854879	-0.9956257	0.31943206	0.61307183
Hbs1l	4934.33117	-0.3171975	0.14828517	-2.1391045	0.03242721	0.16786802
LOC10050289	4.91825739	-0.3172518	0.31171046	-1.0177771	0.30878391	NA
Ftsj3	22112.5936	-0.3172962	0.19380198	-1.6372184	0.10158484	0.33476283
Prps1	15042.3774	-0.3172986	0.20035344	-1.5836942	0.11326332	0.35655018
Myo7b	4.97634096	-0.3173633	0.35050585	-0.9054436	0.36523041	NA
BC024139	3.25405286	-0.3174088	0.3435328	-0.9239549	0.35550978	NA
Lamtor5	2641.55219	-0.3175138	0.17659894	-1.7979373	0.07218695	0.27400029

Tmem194b	1168.0641	-0.3175354	0.24043912	-1.320648	0.18661877	0.46774613
Gm15446	80.386781	-0.3176182	0.34255597	-0.9272009	0.35382224	0.64527848
Tenm3	3845.2231	-0.3176517	0.29631349	-1.0720124	0.28371445	0.57613521
4933430I17R	84.1488333	-0.317671	0.36838187	-0.8623417	0.38849952	0.67760684
Skp1a	31167.5162	-0.3178867	0.18441826	-1.7237265	0.08475722	0.3019884
Wfikkn2	36.8169403	-0.3179861	0.39796728	-0.7990257	0.4242755	0.70280233
Mrps5	6769.07977	-0.3180687	0.16915503	-1.8803384	0.06006197	0.24644423
Mrpl30	4032.57934	-0.3181366	0.21200911	-1.50058	0.13346424	0.39042557
Rnmt	9632.9826	-0.3185992	0.17694054	-1.8006001	0.07176593	0.2729352
Cspg4	12.5050301	-0.3186551	0.43189912	-0.7377998	0.46063612	0.73112954
Rps25	44631.0013	-0.31868	0.19654926	-1.6213745	0.10493735	0.34096964
Snord87	105.281597	-0.3187031	0.34289396	-0.929451	0.35265542	0.64439796
Pifo	17.5961305	-0.3187509	0.4292773	-0.7425292	0.45776676	0.72851923
Nhlrc3	508.058053	-0.3187991	0.19636924	-1.6234675	0.1044895	0.3398475
A830010M2C	435.564468	-0.3189086	0.23473143	-1.3586107	0.17426999	0.45152826
Gatad2b	1365.18389	-0.3189588	0.32085495	-0.9940902	0.32017896	0.61412854
Hist1h3f	4.66435375	-0.3190267	0.36358692	-0.8774428	0.3802462	NA
Rab6b	416.454474	-0.3192827	0.23927263	-1.3343888	0.18207646	0.46137707
Fam110a	497.570392	-0.3193808	0.27906138	-1.1444822	0.2524237	0.54598821
Hnf4a	97.5571743	-0.3194693	0.42785579	-0.7466751	0.45525969	0.72574357
Rasgef1b	52.4195805	-0.3194946	0.41039417	-0.7785067	0.43627034	0.71011515
1700020I14R	2675.24249	-0.31952	0.1733903	-1.8427788	0.06536132	0.25903004
Nmral1	2060.66824	-0.3195576	0.21323164	-1.4986404	0.13396695	0.3912338
Avpr1b	10.5083766	-0.3195595	0.42625389	-0.7496928	0.45343973	0.72448795
Hpn	96.9811853	-0.3197314	0.41563193	-0.7692657	0.44173561	0.71556426
Baz2a	31916.0527	-0.3199168	0.25372062	-1.2609018	0.20734423	0.4927277
Ppig	12966.2555	-0.3199762	0.18708512	-1.7103244	0.0872059	0.30723583
B4galnt4	4307.42166	-0.3200522	0.27412491	-1.1675415	0.24299176	0.53546335
Tbc1d22b	1910.30675	-0.3201117	0.16765827	-1.9093103	0.05622208	0.23617221
Hnrnpr	6598.96437	-0.3201561	0.18531877	-1.7275968	0.08406054	0.30042186
Slc35e4	198.863083	-0.3201823	0.29671783	-1.07908	0.28055205	0.57255444
E130006D01f	32.8195162	-0.3202312	0.39934216	-0.8018969	0.4226126	0.70176706
Zfp605	846.861855	-0.3202699	0.1694144	-1.8904524	0.05869748	0.24244475
Gm5607	3.3199031	-0.3202848	0.32399845	-0.9885382	0.32288914	NA
Fam175b	2871.0929	-0.3203636	0.15559081	-2.0590138	0.03949292	0.1899055
Bcl2l13	4294.58863	-0.3203957	0.19240639	-1.6652032	0.09587222	0.32354794
Zbbx	28.4495483	-0.320482	0.26087088	-1.2285082	0.21925624	0.50770735
Cyct	2107.53838	-0.3207314	0.43112025	-0.7439489	0.45690737	0.72746933
Nlrp6	11.9030801	-0.3207968	0.43219893	-0.7422433	0.45793992	0.72868348
Guca1b	5.83178816	-0.3211352	0.36158688	-0.8881274	0.37447224	NA
Ccdc167	560.543987	-0.3211531	0.25761056	-1.2466612	0.21252175	0.49916693

Zbtb22	1525.96913	-0.3211743	0.20987886	-1.5302844	0.12594636	0.37885621
Megf9	124.084346	-0.3212691	0.35273845	-0.9107855	0.36240838	0.65327607
Ssbp4	3970.35522	-0.3213273	0.20025914	-1.6045574	0.10859125	0.34811431
Zfp846	1095.525	-0.321444	0.27450194	-1.1710081	0.24159553	0.53420333
Cdhr3	2.20842474	-0.3215301	0.33428985	-0.9618304	0.33613482	NA
Tceal1	105.747522	-0.3215676	0.29357862	-1.0953373	0.2733689	0.56629559
4833419F23F	7.91308237	-0.3216821	0.40668733	-0.7909814	0.42895483	0.7048133
Rbbp6	8436.19682	-0.3217136	0.17858898	-1.8014191	0.07163685	0.2726443
Nup188	17626.2457	-0.3217237	0.20203715	-1.5923989	0.11129511	0.35271344
E2f5	3904.19507	-0.3217734	0.22543605	-1.4273377	0.15348257	0.42139963
Rpp40	2422.62451	-0.3219573	0.19429446	-1.6570585	0.09750765	0.32644461
Hspa1b	188.624953	-0.3219608	0.25792708	-1.2482629	0.2119348	0.49860788
Adam17	4398.9394	-0.3219748	0.15229356	-2.1141722	0.03450056	0.17459102
E330021D16f	5.94024609	-0.3221023	0.37949415	-0.8487674	0.39601072	0.68282101
Tmem116	179.543469	-0.3221308	0.42263139	-0.7622027	0.44593901	0.71907897
Gm9833	477.25555	-0.3222992	0.2118793	-1.5211452	0.1282234	0.38228568
Eif4g3	1798.27108	-0.3223704	0.26773109	-1.2040829	0.22855753	0.51925467
Rnf215	596.305388	-0.3226526	0.21426468	-1.5058602	0.13210307	0.38856271
Caprin1	56609.6993	-0.3228507	0.18352975	-1.7591194	0.07855722	0.2888991
Zfp639	3048.97571	-0.3230713	0.19328051	-1.6715153	0.09461995	0.32092362
Paics	60886.8636	-0.3230928	0.15648844	-2.0646431	0.03895679	0.18833006
2410012E07F	59.3088067	-0.3232178	0.41895651	-0.7714829	0.44042076	0.71440317
Zfp60	3213.46304	-0.3234251	0.17594879	-1.8381773	0.06603629	0.26037786
Psmg1	4895.80541	-0.3234999	0.19445844	-1.6635942	0.09619354	0.32400358
Wdr65	12.515788	-0.3235524	0.43063739	-0.7513338	0.45245179	0.72418447
Phf3	12511.5603	-0.3235545	0.2318242	-1.3956892	0.1628081	0.43457411
Smok2b	4.01266606	-0.32361	0.31330607	-1.0328878	0.30165642	NA
Ddx49	4144.82762	-0.3236534	0.24361999	-1.3285175	0.1840072	0.46444825
Cnksr1	44.8199748	-0.3236955	0.38368574	-0.8436476	0.39886636	0.68470812
Ralgps2	3112.05588	-0.3237009	0.15926621	-2.0324519	0.04210792	0.19725327
Sntg2	2.34543342	-0.3237657	0.33030014	-0.9802167	0.32697915	NA
Plec	4390.24075	-0.3238492	0.31038383	-1.0433828	0.29677103	0.59122008
Cyp2c29	12.1327244	-0.3239581	0.39735851	-0.8152792	0.41491249	0.69724488
Slc17a7	69.1941275	-0.3240029	0.32480415	-0.9975332	0.31850575	0.61238106
C230037L18F	25.4113711	-0.3240382	0.42690611	-0.7590386	0.44782945	0.72087942
Rnf2	13139.9231	-0.3240753	0.16795694	-1.9295143	0.05366704	0.22973636
Cd300lb	5.78833517	-0.3241422	0.28499028	-1.1373797	NA	NA
Scpep1	18548.2142	-0.3241593	0.17037245	-1.9026512	0.05708607	0.23825696
Mdn1	18807.4403	-0.3243736	0.28214691	-1.149662	0.2502831	0.54397659
Ttc37	5136.05259	-0.3244087	0.2371737	-1.3678105	0.1713714	0.44770759
Gpr157	137.794555	-0.3244238	0.33228825	-0.9763325	0.32889973	0.62222868

Gm15104	1.76575336	-0.3245436	0.28542571	-1.1370512	0.25551688	NA
Galnt15	3.85453769	-0.3246071	0.33519299	-0.9684184	0.33283544	NA
Actrt3	7.84816225	-0.3246733	0.39453293	-0.8229308	0.41054732	0.69313511
Rbmx2	1905.09402	-0.3247056	0.18119739	-1.7919994	0.07313305	0.27584092
Rasl2-9	11.3665496	-0.3247816	0.43222177	-0.7514236	0.45239775	0.72418447
Cacybp	31737.3635	-0.3248109	0.20343639	-1.5966215	0.11035009	0.35105463
Tango6	1730.69241	-0.3248153	0.2525207	-1.2862918	0.19834125	0.48126148
Rhot1	6612.96221	-0.3248497	0.16123741	-2.0147289	0.04393306	0.20237057
Msh2	34212.6241	-0.3249846	0.18628118	-1.7445915	0.081056	0.29437221
Nol9	8375.87817	-0.3250065	0.23835379	-1.3635468	0.17271025	0.44977111
Nlrp14	173.488143	-0.3251438	0.32790828	-0.9915694	0.32140765	0.61561896
Lnp	2795.52357	-0.3252348	0.20428835	-1.592038	0.11137617	0.35289544
1600014C23F	8.80467204	-0.3254046	0.40844791	-0.7966856	0.42563363	0.70385246
Phc3	1539.55428	-0.3254097	0.22525326	-1.4446393	0.14855921	0.41357758
Rrp9	6617.66878	-0.3254965	0.1950834	-1.6684993	0.09521665	0.32231479
Acan	303.033537	-0.3254982	0.29845256	-1.0906194	0.27544039	0.56766083
Nup107	15050.9676	-0.3255334	0.14203055	-2.2919959	0.02190588	0.13107286
Pfas	12556.7131	-0.3255403	0.22783959	-1.4288136	0.15305783	0.42075345
Nsmf	171.788202	-0.3256163	0.36099982	-0.9019846	0.36706507	0.65717579
Zfp661	810.210278	-0.3256487	0.19231463	-1.6933124	0.09039602	0.31328893
Zfp512	3651.04135	-0.325657	0.17005987	-1.914955	0.05549824	0.23446159
Cdo1	3849.52329	-0.3257159	0.24550298	-1.326729	0.18459835	0.46455672
Aasdhpt	5775.92091	-0.3261059	0.17925304	-1.819249	0.06887346	0.26700698
Ldha	74038.2999	-0.3261141	0.26105058	-1.2492371	0.21157838	0.49812885
12-Sep	14.2703811	-0.3262492	0.43022513	-0.758322	0.44825822	0.72108696
Mtdh	11522.6862	-0.3263908	0.18179133	-1.7954145	0.07258768	0.27469319
Spag9	5793.59936	-0.3263985	0.2607444	-1.2517949	0.21064459	0.49752947
Leprotl1	1514.11969	-0.3265032	0.25721921	-1.2693579	0.20431344	0.48941441
Fbxl4	1456.32248	-0.3265615	0.24423641	-1.3370713	0.18119938	0.45992672
Casc3	5606.84762	-0.3265684	0.2043148	-1.5983588	0.10996315	0.35043706
Ppp3cb	5436.06172	-0.3267642	0.1924822	-1.6976333	0.089577	0.31135715
Mir6403	1.96311043	-0.3268641	0.31247865	-1.0460364	0.29554421	NA
Lrrc20	496.068169	-0.3270451	0.22255874	-1.4694775	0.14170332	0.40234221
Rars	16709.5842	-0.3270624	0.18154853	-1.8015149	0.07162176	0.2726443
Gprc5a	2142.05676	-0.3271543	0.3219324	-1.0162205	0.30952438	0.60444616
Zfp40	721.245339	-0.3272808	0.2282552	-1.433837	0.15161878	0.41871751
Prrc2c	25668.231	-0.3273882	0.27643916	-1.1843047	0.23629246	0.52810283
Kcnd3	47.5862428	-0.3274079	0.41246442	-0.7937846	0.42732082	0.70423083
Gstm2	2323.29869	-0.3275191	0.28628452	-1.1440337	0.25260965	0.54598821
2010300C02F	60.2765233	-0.327547	0.35701223	-0.9174671	0.35889792	0.64988607
Trp53cor1	197.162436	-0.3276204	0.2606109	-1.2571247	0.20870849	0.4946846

Serac1	1997.57993	-0.3276933	0.18905076	-1.7333616	0.08303142	0.29854836
Zfp869	1608.1925	-0.3279362	0.35131015	-0.9334665	0.35057917	0.64252877
Zfp598	6616.77106	-0.327976	0.20422082	-1.6059872	0.10827672	0.34760762
Rimbp2	35.5287743	-0.3279776	0.42840975	-0.7655699	0.44393228	0.71725619
Chsy1	2086.1996	-0.3279811	0.2233066	-1.4687481	0.14190112	0.40253636
Tbp	3179.71883	-0.3281023	0.15037479	-2.181897	0.02911713	0.15640778
Ebi3	46.9953223	-0.328149	0.43041001	-0.7624103	0.44581515	0.71902836
Dcaf11	2298.19733	-0.328318	0.17625908	-1.8627014	0.06250429	0.25214118
2510049J12R	2.87758998	-0.3283725	0.36973532	-0.8881286	0.37447157	NA
Zfp397	2568.62094	-0.3285537	0.2340118	-1.4040049	0.1603174	0.43166
Otud4	15257.4232	-0.3285602	0.26474259	-1.2410553	0.21458533	0.50166747
Snhg5	9045.11901	-0.3286481	0.20651643	-1.5913898	0.11152188	0.35321319
Nudt7	102.697434	-0.3286699	0.27545826	-1.1931751	0.2328008	0.52452319
Sorcs3	5.69082327	-0.3286889	0.34130285	-0.9630419	NA	NA
Sephs1	5711.48509	-0.3287036	0.16856258	-1.9500389	0.05117148	0.22271695
Hnrnpk	62496.4567	-0.3287225	0.16395087	-2.0050064	0.04496237	0.20548551
Tbc1d25	1422.46021	-0.3289013	0.20168254	-1.6307872	0.10293523	0.33719106
Cblb	1535.29553	-0.3289613	0.18305351	-1.7970773	0.07232335	0.27429691
Rpl31	29020.8663	-0.3290712	0.21963825	-1.4982418	0.13407045	0.39131561
Prpf8	46366.0292	-0.3291817	0.27516486	-1.1963073	0.23157667	0.52302118
Rsrc1	3932.43548	-0.3292832	0.1964982	-1.675757	0.09378579	0.3190125
Ncapg2	5797.86923	-0.3294142	0.19681736	-1.6737049	0.09418862	0.31987928
Eef1g	47260.9568	-0.3295087	0.19166072	-1.7192294	0.08557261	0.30351181
Pds5b	6566.50475	-0.3295564	0.21378741	-1.5415147	0.12319157	0.37460933
Tfb1m	1590.83664	-0.3295603	0.17878613	-1.8433213	0.06528212	0.25884808
Lpcat1	2421.10396	-0.3295654	0.2142333	-1.5383479	0.12396357	0.37578118
Ankra2	1605.99116	-0.3297228	0.22368488	-1.4740505	0.14046799	0.40066355
Akap1	17308.4871	-0.3297984	0.25050907	-1.3165126	0.18800204	0.46937977
Trappc8	6724.9575	-0.3298131	0.19319639	-1.7071391	0.08779621	0.30847691
Ppp4r1l-ps	228.360838	-0.3298567	0.26436053	-1.2477532	0.21212147	0.49882065
Zfp658	313.712101	-0.3299566	0.34679204	-0.9514537	0.34137409	0.63470928
2610020C07F	59.2909021	-0.3300042	0.34953659	-0.9441193	0.34510871	0.63773152
Cep57	7391.18715	-0.330155	0.16637034	-1.984458	0.0472048	0.21149979
Prune2	2391.60972	-0.3301737	0.25421348	-1.2988047	0.19401095	0.47678006
Snord1c	31.1315953	-0.3302762	0.40850294	-0.8085037	0.41880065	0.69954553
Ccdc117	6355.92944	-0.3302896	0.19650147	-1.6808505	0.09279195	0.31711237
Bap1	5203.25464	-0.3304245	0.20342383	-1.6243159	0.10430841	0.33956461
Gm13544	1.72031864	-0.3305063	0.29014272	-1.1391163	0.25465464	NA
Abca8b	15.7199181	-0.3305554	0.41523319	-0.7960718	0.42599031	0.70402942
Btbd7	1786.67258	-0.3305843	0.28875633	-1.1448557	0.25226895	0.54598821
1500009C09F	172.289642	-0.3306348	0.41174106	-0.8030164	0.42196526	0.70127884

Alg14	599.562124	-0.3307733	0.18132053	-1.8242465	0.06811482	0.26501216
E2f2	1053.68022	-0.3308012	0.25781077	-1.2831165	0.19945127	0.48250548
Grtp1	3334.82021	-0.3309565	0.21317469	-1.5525129	0.12053954	0.36940975
Asb1	1026.91881	-0.3310952	0.20605387	-1.606838	0.10808992	0.34731645
Cox7b2	297.229367	-0.3312084	0.27257123	-1.2151261	0.22431799	0.51368924
Nfatc4	676.512333	-0.3313181	0.26098493	-1.2694915	0.20426582	0.48937571
2810004N23I	6347.79326	-0.3317083	0.19485667	-1.7023195	0.0886955	0.30995588
Haus8	3617.8281	-0.3317508	0.19165418	-1.7309863	0.0834542	0.29916365
Ap5m1	1859.17801	-0.3317674	0.2160307	-1.5357419	0.12460171	0.37712751
Sycp1-ps1	13.4691067	-0.3318114	0.37135059	-0.893526	0.37157558	0.66164325
Snora3	127.165659	-0.3318991	0.33673384	-0.9856423	0.32430865	0.618534
Rassf10	105.043449	-0.3320764	0.39418417	-0.8424398	0.3995418	0.68486983
2700049A03f	3524.29956	-0.3320921	0.17880536	-1.8572827	0.06327094	0.25427286
Panx2	4.31832148	-0.3321513	0.37972113	-0.8747242	0.38172396	NA
Zfp62	3533.61535	-0.332201	0.19634765	-1.6919023	0.0906646	0.31345603
Scn8a	341.701444	-0.3322727	0.2320469	-1.4319205	0.15216656	0.41956422
Brcc3	2791.12049	-0.3323101	0.15957442	-2.082477	0.03729892	0.18314982
Papola	24613.929	-0.3324641	0.17549384	-1.8944488	0.05816546	0.24103255
Defb5	2.70951245	-0.3324707	0.26363332	-1.2611103	0.20726913	NA
0610010K14f	2329.60172	-0.3325948	0.22526813	-1.4764399	0.13982584	0.39971171
Rsrc2	11550.0126	-0.332634	0.16650457	-1.9977467	0.04574413	0.20779516
Slc36a1	1387.5049	-0.3327138	0.1807377	-1.8408657	0.06564124	0.25941219
Eme1	3230.38729	-0.3327664	0.20193389	-1.6478978	0.09937364	0.32992302
1200014J11R	12035.3985	-0.3329401	0.17905871	-1.8593906	0.06297179	0.25350099
A330050F15f	1.84075221	-0.3330379	0.28994126	-1.1486392	0.25070477	NA
Wdr93	127.608722	-0.3331081	0.38823121	-0.8580147	0.39088434	0.67903559
Ddx18	7283.84562	-0.333188	0.1563398	-2.1311781	0.03307448	0.16974956
Abhd16a	918.31672	-0.3332963	0.25557606	-1.3040985	0.19220002	0.4751259
Mak	186.152395	-0.3333137	0.26324161	-1.2661893	0.20544531	0.49038835
3110052M02	210.083615	-0.3333571	0.28592434	-1.1658928	0.24365781	0.535868
Slc7a2	365.858564	-0.3335974	0.42137172	-0.7916939	0.4285392	0.7047819
Hmgb3	1247.32761	-0.3336599	0.19368334	-1.7227085	0.08494126	0.30220122
Nipbl	7103.70667	-0.3337126	0.25490742	-1.3091521	0.19048284	0.47243998
Ctcf	12492.5514	-0.3339743	0.20898977	-1.5980414	0.11003376	0.35049876
Arhgap6	4.14948502	-0.3340557	0.38552449	-0.8664967	0.38621782	NA
U2surp	23412.4072	-0.3341553	0.16522009	-2.0224857	0.0431262	0.20019567
Abcc4	5009.28593	-0.3342017	0.21836267	-1.5304894	0.12589564	0.37885621
Psm11	10679.7278	-0.3343173	0.20676595	-1.6168877	0.10590252	0.34267377
Tert	1152.6732	-0.3343483	0.23889952	-1.3995353	0.16165251	0.43260337
Pex26	1252.83564	-0.3344021	0.22767037	-1.4687996	0.14188716	0.40253636
Map3k4	3469.28467	-0.3345035	0.21322883	-1.5687539	0.11670531	0.36261569

Pdia6	28415.5325	-0.3345735	0.1965349	-1.702362	0.08868752	0.30995588
Rft1	841.959517	-0.3348698	0.16874788	-1.9844385	0.04720698	0.21149979
Ppp6r2	868.103236	-0.3349179	0.1990084	-1.6829335	0.09238796	0.31658914
Snrpd1	8859.51774	-0.3350281	0.20070802	-1.6692313	0.09507154	0.32196376
Ccdc8	628.613621	-0.3350919	0.26678504	-1.2560369	0.20910259	0.49516588
Ptgir	7.3321641	-0.3351272	0.32879523	-1.019258	0.30808051	0.60283181
Actb	117448.818	-0.3352371	0.24884229	-1.3471872	0.17791995	0.45556244
Sergef	520.580939	-0.3352548	0.28115665	-1.1924127	0.23309946	0.5247835
Capn12	53.8206284	-0.3353164	0.42318873	-0.7923566	0.42815276	0.70472095
Arsg	80.3213854	-0.3353509	0.38930618	-0.8614067	0.38901411	0.67794934
Atp5g2	2075.62837	-0.3354313	0.21101674	-1.5895955	0.111926	0.35384454
Stam	5106.80575	-0.3354432	0.16244023	-2.0650254	0.0389206	0.18833006
Ythdf3	8428.59256	-0.3355186	0.21460421	-1.5634297	0.11795155	0.36473744
Cpsf3l	5513.61963	-0.335807	0.14222897	-2.3610311	0.0182242	0.11619705
Hdac2	20462.6214	-0.3359398	0.17091562	-1.9655299	0.04935294	0.21783943
Rad51d	1691.69707	-0.3365625	0.26233265	-1.2829607	0.19950586	0.48250548
Rorc	11.2952677	-0.3368326	0.42506082	-0.792434	0.42810769	0.70472095
Fmr1	9817.78713	-0.3368331	0.19400913	-1.7361716	0.0825335	0.29737683
Rps15	56474.6619	-0.3368971	0.23974394	-1.4052371	0.15995077	0.43124038
Dpp8	2999.62812	-0.3371699	0.16297626	-2.0688281	0.03856222	0.18757618
Taf8	2768.44038	-0.3372206	0.19298228	-1.7474175	0.08056494	0.2929309
Ano10	260.079399	-0.3372357	0.30523824	-1.1048279	0.26923418	0.56222112
Xrcc6bp1	729.887434	-0.3372574	0.19227522	-1.7540347	0.07942456	0.29073126
Gjc1	4865.45006	-0.3373373	0.25013538	-1.3486188	0.17745944	0.45494095
Wapal	17630.2416	-0.3373427	0.20273164	-1.6639867	0.09611509	0.32399322
Nup160	11793.1272	-0.337411	0.21264355	-1.5867444	0.11257055	0.35516021
Heatr1	12615.7396	-0.33752	0.25490077	-1.3241231	0.18546215	0.46600774
4930465K10F	2.52137352	-0.3376194	0.35644514	-0.9471847	0.34354469	NA
Dnm1l	16633.8903	-0.3376229	0.1732116	-1.9491936	0.05127231	0.22283815
Rprml	6.13171235	-0.3378152	0.42185931	-0.8007769	0.4232608	0.70209373
Tpd52l2	7265.66752	-0.3379666	0.17711543	-1.9081713	0.05636908	0.23659797
1300002K09F	82.2065706	-0.3379901	0.37200631	-0.9085601	0.36358237	0.6537332
Fam175a	2162.8721	-0.3380872	0.19555856	-1.7288283	0.08383983	0.2998942
Gm16702	2.81962456	-0.3380915	0.30108986	-1.1228923	0.26148325	NA
Slc5a9	2.62161935	-0.3381348	0.30071543	-1.1244346	0.2608287	NA
Wdr92	4267.33184	-0.338165	0.1710669	-1.9767999	0.04806425	0.21441399
Zfp938	992.878079	-0.3384092	0.18338216	-1.8453771	0.0649827	0.25826729
Fabp5	862.60386	-0.3384995	0.34146796	-0.9913068	0.32153577	0.6157127
E330017A01F	5.1504459	-0.3387101	0.34262955	-0.9885607	0.32287813	NA
Kif6	13.7699513	-0.3388763	0.43193489	-0.7845541	0.43271504	0.70789874
Fam181b	96.0516606	-0.3388837	0.40512648	-0.8364886	0.40288006	0.68740218

Gipc3	8.18744083	-0.3389748	0.42181079	-0.803618	0.42161761	0.70108805
Syng3	131.637262	-0.3390461	0.32902811	-1.0304472	0.30280015	0.59794858
Golt1b	5741.67583	-0.3391634	0.15603654	-2.1736151	0.02973405	0.15846274
Ncaph	6252.40866	-0.3394106	0.1830106	-1.8545951	0.06365407	0.25512485
Snai3	71.4693831	-0.3395169	0.39976484	-0.8492915	0.39571909	0.68269664
Eif4e	11726.0189	-0.3395386	0.15402492	-2.204439	0.02749348	0.15103366
Dock6	8728.43406	-0.3396606	0.27111207	-1.2528419	0.21026324	0.49693065
AU041133	102.166296	-0.3397426	0.31457107	-1.0800185	0.28013395	0.57238012
Ppp1r21	2358.28864	-0.3397753	0.21452397	-1.5838571	0.11322624	0.35655018
H2afz	28258.1769	-0.3397827	0.18697042	-1.8173071	0.0691701	0.26764473
Nup133	11292.4665	-0.3398013	0.22669089	-1.4989632	0.13388317	0.39106257
Bace2	5.09717661	-0.3403199	0.41092601	-0.828178	0.4075697	NA
Dnttip2	12791.4727	-0.3404781	0.19265782	-1.7672684	0.07718329	0.28544051
Slc7a1	10905.5552	-0.3405379	0.2272845	-1.4982892	0.13405814	0.39131561
Mir7061	2.11504463	-0.3407395	0.31302776	-1.088528	0.2763621	NA
Miox	2.11504463	-0.3407395	0.31302776	-1.088528	0.2763621	NA
Ktn1	9785.19718	-0.3407458	0.29685373	-1.1478576	0.25102737	0.54460318
Bnip2	3094.48783	-0.3407989	0.17923135	-1.9014468	0.05724351	0.23865959
Zfp507	3601.51718	-0.3408203	0.20296189	-1.6792332	0.09310661	0.31752214
Mtif2	4988.58829	-0.3410259	0.18787057	-1.815217	0.06949057	0.26821738
Cct7	46816.7106	-0.3411099	0.15962967	-2.1368829	0.03260752	0.16846496
Setbp1	63.9468638	-0.34121	0.3759075	-0.9076966	0.36403852	0.65406636
Oxa1l	5275.60314	-0.3412652	0.19783478	-1.7250009	0.08452732	0.30148722
Traf3ip1	1312.83635	-0.3413044	0.2065781	-1.6521809	0.09849767	0.32827632
Lamc3	28.1810753	-0.3413255	0.41021156	-0.8320719	0.40536838	0.68925034
Itpripl1	528.87949	-0.3414925	0.30481647	-1.1203216	0.26257674	0.5549512
Akna	830.573206	-0.3417975	0.24758038	-1.3805515	0.16741692	0.44231821
Ccdc137	1482.10801	-0.3419916	0.17157171	-1.9932864	0.0462301	0.20896764
Tom1	355.423769	-0.3419967	0.22251486	-1.5369613	0.12430279	0.3765159
Gm7008	6.95254646	-0.3422538	0.42340183	-0.8083428	0.41889324	0.69962505
Fdft1	10594.7971	-0.342482	0.19695881	-1.738851	0.08206098	0.29629216
Klhl24	3994.89243	-0.3425363	0.23985016	-1.4281264	0.15325548	0.4210512
Swsap1	709.855984	-0.3425387	0.24497465	-1.3982618	0.16203447	0.43326619
Cstf2t	5084.61794	-0.3427554	0.15986182	-2.1440729	0.03202704	0.1664297
Csrp2	6794.88936	-0.3427973	0.30378928	-1.1284049	0.25914897	0.55130309
Grb14	61.845278	-0.3429029	0.39459469	-0.8690003	0.38484696	0.67403481
Chd6	4294.1959	-0.3430116	0.21565498	-1.5905572	0.11170926	0.35356943
Haus2	5942.73997	-0.3432474	0.23695275	-1.4485899	0.14745214	0.41204462
Fbxo3	3618.27396	-0.3434923	0.16062274	-2.1385037	0.03247588	0.16800813
4930479D17I	3.1656596	-0.3435229	0.35769938	-0.9603675	0.33687031	NA
Brinp2	13.772485	-0.3435724	0.42901106	-0.8008475	0.42321997	0.70209373

Pias1	2476.82769	-0.3436785	0.1727263	-1.9897291	0.04662078	0.20988317
Eya1	756.265986	-0.3438103	0.3218707	-1.0681628	0.2854471	0.57844513
Pms1	3149.48631	-0.3441003	0.16952178	-2.0298295	0.04237387	0.19800363
Sass6	1896.09028	-0.3441985	0.18389067	-1.8717563	0.06124032	0.24924059
Nrip1	758.008068	-0.3442896	0.32414256	-1.0621549	0.28816538	0.58175514
Rab38	703.182783	-0.344442	0.30604837	-1.1254494	0.26039863	0.5523497
Timm44	6353.56138	-0.3444986	0.18512336	-1.8609138	0.06275636	0.25283008
Dgkh	500.262567	-0.344507	0.21675252	-1.5894025	0.11196955	0.35385899
Atxn7l1	392.830183	-0.3445719	0.28609695	-1.2043886	0.2284394	0.51911442
Cd59b	144.364028	-0.3447642	0.26206886	-1.3155481	0.18832577	0.46953088
Vangl2	1646.34108	-0.3448177	0.23205551	-1.4859279	0.1372982	0.39568649
Zfp810	626.844931	-0.3448324	0.18771611	-1.8369889	0.06621153	0.26073829
Spo11	3.66516181	-0.3449172	0.38954888	-0.8854272	0.37592624	NA
4930520004l	85.8924693	-0.3449566	0.39687433	-0.8691834	0.38474685	0.67393886
Fndc3c1	6.72406615	-0.3450101	0.41980731	-0.8218296	0.4111739	0.69366081
Twf2	4380.5027	-0.3450764	0.26585711	-1.2979769	0.19429526	0.47695117
Aatf	4282.34282	-0.3451896	0.21615246	-1.5969727	0.11027179	0.35104127
Fh1	9791.05415	-0.3452382	0.19108997	-1.8066788	0.07081238	0.27074168
Huwe1	32552.6652	-0.3454361	0.2666749	-1.2953454	0.1952011	0.47806832
Preli1	11071.5279	-0.3455758	0.19913958	-1.7353448	0.08267975	0.29783481
Pnrc2	6244.76191	-0.3457663	0.17147443	-2.0164304	0.04375499	0.20199689
Zfp383	2454.73807	-0.3457997	0.16403063	-2.1081411	0.03501878	0.17675336
Nudt13	362.473387	-0.3458028	0.22857122	-1.5128886	0.13030796	0.38615039
Usp34	12737.7306	-0.3460063	0.28668576	-1.2069184	0.22746356	0.51767684
Litaf	2893.49638	-0.3460102	0.22489787	-1.5385217	0.12392111	0.37572572
Sike1	2869.74075	-0.3460809	0.15504994	-2.2320608	0.02561094	0.1446172
Exoc6b	6879.50361	-0.3461196	0.23049201	-1.5016554	0.13318612	0.39019921
Clspn	4436.6779	-0.3461932	0.18859988	-1.8355962	0.0664174	0.26121826
Epha10	109.021052	-0.3462056	0.31830784	-1.0876441	0.27675227	0.56928593
Ndufa6	7897.51715	-0.3463182	0.24111472	-1.4363212	0.15091097	0.41773167
Myl2	36.0176346	-0.3466446	0.42598327	-0.8137517	0.4157872	0.69783135
Mir8094	9.54243049	-0.3467507	0.43166731	-0.8032823	0.42181157	0.7012606
Sync	426.736639	-0.346827	0.24170492	-1.4349193	0.15131011	0.41838967
Meox1	6.57127455	-0.3468413	0.37114835	-0.9345085	0.35004168	0.64198366
Atf1	4289.04351	-0.3469291	0.19285253	-1.7989344	0.07202906	0.27371972
AU021063	3.92570584	-0.3469725	0.37414009	-0.9273865	0.35372588	NA
Atxn3	7074.29273	-0.3470433	0.2137673	-1.6234631	0.10449045	0.3398475
Cbx7	8151.50291	-0.3470769	0.20033389	-1.732492	0.08318601	0.2988278
Slc25a46	2947.77808	-0.3470814	0.19138895	-1.8134872	0.06975671	0.26889366
2010107G23l	582.359428	-0.3471033	0.25997782	-1.3351268	0.18183487	0.46099022
Rnf26	1281.58476	-0.3471649	0.24895444	-1.3944915	0.16316922	0.43516456

Cpq	26.1930545	-0.3476365	0.43049959	-0.8075188	0.41936764	0.70003741
Xrn2	17027.4677	-0.3477685	0.1879206	-1.8506143	0.06422506	0.25666076
Acy1	3779.646	-0.3478667	0.23574964	-1.475577	0.14005748	0.40007969
Plrg1	7286.03042	-0.3478936	0.16990398	-2.0475895	0.04060024	0.19303026
Slc31a1	6967.3239	-0.347903	0.17010766	-2.0451929	0.04083584	0.19366826
Dazap1	9134.8676	-0.3479038	0.17560686	-1.9811517	0.04757426	0.21289995
Prrg3	417.177838	-0.3479974	0.33913377	-1.026136	0.30482748	0.59961979
Cst3	6613.49566	-0.3480943	0.23825963	-1.4609875	0.14401888	0.40573145
Aars	42743.3777	-0.3481077	0.16694684	-2.0851413	0.03705647	0.18253571
4933417D19I	11.5299471	-0.3482067	0.43002378	-0.8097383	0.41809058	0.69896008
Gm10416	702.114009	-0.3484109	0.25712052	-1.3550488	0.17540201	0.45309298
Fance	1628.56512	-0.3484185	0.1997645	-1.7441463	0.08113359	0.2944477
Lrrc61	310.698734	-0.3484701	0.22383525	-1.556815	0.11951442	0.3678877
Ncor1	19831.1582	-0.3484901	0.22350901	-1.5591771	0.11895446	0.36681756
Krt16	40.215242	-0.3486108	0.43022759	-0.810294	0.41777124	0.69872666
Nupl1	4892.24281	-0.3486127	0.22458828	-1.5522302	0.12060715	0.36940975
Foxa3	97.441473	-0.3486325	0.37297367	-0.9347376	0.34992355	0.64198366
Cdc16	7494.41296	-0.3486339	0.18080279	-1.9282553	0.05382338	0.23001027
Dhx36	10856.5673	-0.3486666	0.19548741	-1.7835758	0.07449263	0.27900647
Efna1	160.692658	-0.3486731	0.30924807	-1.1274868	0.25953673	0.55161456
6430571L13F	52.982996	-0.3488392	0.34975204	-0.9973901	0.31857519	0.61238106
Kbtbd3	172.689664	-0.3490723	0.26559557	-1.3143	0.18874528	0.47007972
Prpf19	16267.4224	-0.3492099	0.20370505	-1.7142921	0.08647509	0.30564466
Flrt1	45.7699918	-0.349246	0.35920644	-0.9722709	0.33091582	0.62414456
Rab34	1535.46663	-0.3495086	0.21568831	-1.6204336	0.10513917	0.34141141
Tcerg1l	8.19353945	-0.3495251	0.42579594	-0.8208746	0.41171771	0.69427696
Tipin	13847.2984	-0.3497033	0.19862449	-1.7606252	0.07830186	0.28826774
Gm5803	21.4317136	-0.3497868	0.41328815	-0.8463508	0.39735707	0.68347116
Hist1h3c	30.2366271	-0.3498618	0.43085166	-0.8120237	0.41677802	0.69852668
Egfl7	1539.25331	-0.3498945	0.21596379	-1.6201538	0.10519924	0.34146388
Cyp20a1	1698.35679	-0.3499048	0.19344362	-1.8088207	0.07047886	0.2702211
Rpl35	17022.5646	-0.3499913	0.20990665	-1.6673666	0.09544153	0.32279496
Bbs9	1806.1889	-0.3501769	0.19976253	-1.7529658	0.07960788	0.291203
Cep41	796.175825	-0.350214	0.19078753	-1.8356233	0.06641339	0.26121826
4930548H24I	2.53475178	-0.3502521	0.33519907	-1.0449078	0.29606557	NA
Nras	11466.546	-0.3504137	0.14364273	-2.4394808	0.01470838	0.10027622
Zfp182	1106.31489	-0.3504352	0.18069761	-1.9393462	0.0524592	0.22660917
Pelp1	10662.4748	-0.3505204	0.22533328	-1.5555643	0.11981174	0.36829263
H2afx	14087.8955	-0.3506857	0.2350731	-1.4918154	0.13574754	0.39340478
Fert2	2504.24267	-0.3507094	0.16676451	-2.1030216	0.03546388	0.17836314
1700019D03I	1097.57985	-0.3507485	0.22669356	-1.5472364	0.12180625	0.37177801

Fem1c	2999.34633	-0.3507909	0.23240743	-1.5093793	0.13120189	0.38740968
Necap1	7018.00911	-0.350891	0.16051142	-2.186081	0.02880968	0.1556163
Fgf15	69.240773	-0.3509564	0.39369074	-0.8914519	0.37268677	0.66269681
Lgi3	8.93940388	-0.3510224	0.40781024	-0.8607494	0.38937606	0.67794934
Slc20a2	5489.72697	-0.3510728	0.20573831	-1.7064046	0.08793278	0.30877503
Ankrd50	676.812089	-0.3510988	0.2197736	-1.5975477	0.11014368	0.35077707
Sil1	1200.42062	-0.3511361	0.24818661	-1.4148069	0.15712513	0.42655183
Msantd2	2354.00515	-0.3511447	0.18050232	-1.9453751	0.05172985	0.224078
Samd7	160.439795	-0.3512549	0.39359725	-0.8924221	0.37216672	0.66226853
Ldlr	10880.476	-0.3513685	0.1939088	-1.8120299	0.06998158	0.26937713
Trmt10b	1129.88214	-0.351388	0.19148246	-1.8350921	0.06649204	0.26137959
Cd151	3922.81118	-0.3514965	0.17392752	-2.0209366	0.04328632	0.20057975
Txn1	25220.4611	-0.3517471	0.19623308	-1.7924967	0.07305344	0.27560749
Ifngr1	386.868385	-0.3518718	0.27025805	-1.3019846	0.19292166	0.47560633
Slc5a11	714.993697	-0.3518781	0.30090894	-1.1693841	0.24224893	0.53458396
Smg5	11749.6255	-0.3518888	0.20327713	-1.7310794	0.08343761	0.29916365
Eml4	10262.2049	-0.3520638	0.21934454	-1.6050722	0.10847792	0.348038
Tmem130	104.58774	-0.3520958	0.42098852	-0.8363548	0.40295533	0.68740218
Angptl4	1512.81967	-0.3523255	0.1942816	-1.8134784	0.06975806	0.26889366
Rps27a	67993.5331	-0.3524075	0.23262994	-1.5148847	0.1298016	0.38521845
Arhgdia	21063.529	-0.352897	0.21871887	-1.6134729	0.1066418	0.34442091
Gm608	2658.03177	-0.3529075	0.20169111	-1.7497427	0.08016273	0.29199838
Mvb12a	2354.57008	-0.3529848	0.24592381	-1.4353421	0.15118965	0.41838967
Gtl3	3591.50045	-0.3530718	0.20729917	-1.7031991	0.08853081	0.30976524
Sned1	30.7960224	-0.3531663	0.42964981	-0.8219863	0.41108467	0.69365847
L1td1	23714.5668	-0.3532302	0.24862779	-1.4207191	0.15539844	0.4238164
Mrpl42	7835.03966	-0.3532498	0.20753491	-1.7021225	0.0887324	0.31001518
Mir186	32.9916067	-0.3533079	0.38805518	-0.9104578	0.36258111	0.65337545
Mboat2	1991.09164	-0.3534424	0.16690745	-2.117595	0.03420938	0.17358019
Pik3ca	3543.9872	-0.353538	0.18865111	-1.8740311	0.06092613	0.2485473
Nod2	172.016349	-0.3535932	0.42830941	-0.8255556	NA	NA
Clec2i	4.1048906	-0.3536203	0.35345482	-1.0004683	0.31708394	NA
Cpsf6	11692.536	-0.3537655	0.19318516	-1.8312252	0.06706694	0.26304109
Insr	1481.0219	-0.353875	0.27501134	-1.2867653	0.19817612	0.4811611
Ubiad1	1314.26475	-0.3538928	0.17519839	-2.0199548	0.04338808	0.20081191
Mtus1	3310.56507	-0.353901	0.27652937	-1.2797954	0.20061711	0.48436526
Zfp189	541.158553	-0.3539297	0.19936906	-1.7752489	0.0758568	0.28207774
Abhd14a	1385.90139	-0.3539419	0.19046094	-1.8583436	0.06312023	0.25390138
Klhdc9	74.1689204	-0.354004	0.39060911	-0.9062871	0.36478391	0.6548307
Pcmdt1	4800.84879	-0.3543026	0.19606543	-1.8070631	0.07075245	0.27060288
Lif	747.99947	-0.3543461	0.28291966	-1.2524619	0.21040162	0.49718212

Aldoart1	49.4465089	-0.3543851	0.38127297	-0.9294788	0.352641	0.64439796
Pde8a	2301.94418	-0.3544957	0.22424601	-1.5808338	0.11391605	0.35780823
Nmu	7.40962806	-0.3545778	0.42006607	-0.8441001	0.39861345	0.68450064
Lrfn4	895.738486	-0.3546817	0.22009745	-1.6114757	0.10707608	0.34516082
Ptma	91962.5374	-0.3547225	0.16065079	-2.2080347	0.02724186	0.15011981
Zfp263	3432.93331	-0.3547718	0.14558135	-2.4369319	0.01481247	0.10067689
Twistnb	3495.6015	-0.3548117	0.15641734	-2.2683653	0.02330695	0.13636812
Mcrs1	4262.96767	-0.3549299	0.17303597	-2.0511914	0.04024831	0.19194171
Setd2	8619.59485	-0.354957	0.25592213	-1.3869725	0.16545013	0.43892642
Prkdc	4610.35602	-0.3550838	0.22726	-1.5624562	0.11818056	0.36537293
Cenpk	1242.92057	-0.3553017	0.21537762	-1.6496686	0.09901074	0.32906946
2310022B05f	1320.64371	-0.3553703	0.2486571	-1.4291581	0.15295881	0.42063558
Wdr17	17.875936	-0.3554471	0.43218811	-0.822436	0.41082877	0.69330421
Hk2	23208.1321	-0.3555155	0.16963654	-2.0957484	0.03610451	0.1803602
Ngef	55.8922953	-0.3555757	0.41569742	-0.8553713	0.3923456	0.68027277
Sec13	7680.77995	-0.3555798	0.19031654	-1.8683601	0.06171189	0.25017768
Kcnj16	1.94170072	-0.3556002	0.27105418	-1.3119157	0.18954859	NA
Pfdn4	3749.992	-0.3559565	0.17526208	-2.0309954	0.04225546	0.19756905
Tubgcp5	3137.56855	-0.355987	0.1733599	-2.0534565	0.04002833	0.19132821
Pdk1	3641.08668	-0.3560409	0.24652115	-1.444261	0.14866558	0.41372557
Il22ra1	10.2243377	-0.3560782	0.42987973	-0.8283206	0.40748896	0.69134419
Smarcd1	7997.35977	-0.3562612	0.23390148	-1.5231252	0.12772738	0.38170982
Stat5b	979.37988	-0.356388	0.2107052	-1.6914059	0.09075931	0.313644
Yif1b	3077.44964	-0.3564088	0.18714001	-1.9045035	0.05684464	0.23756811
Ccdc14	2817.23633	-0.3565053	0.18150497	-1.9641629	0.0495112	0.21836322
Gid4	5898.63068	-0.3566494	0.16707339	-2.134687	0.03278659	0.16899709
Dnajc4	740.340855	-0.3566828	0.24186771	-1.4747018	0.14029273	0.40038397
Cpne7	48.8489883	-0.3566996	0.41564432	-0.8581848	0.39079045	0.67903559
Syngap1	262.778133	-0.3568259	0.26830584	-1.3299222	0.18354392	0.46376482
Impdh1	2985.84764	-0.3568315	0.20718925	-1.7222491	0.08502441	0.30228957
Cyfp2	1106.93158	-0.3569396	0.2861471	-1.2473988	0.2122513	0.49892572
Cela1	46.3559252	-0.35709	0.42026637	-0.8496754	0.39550558	0.68263121
Mib1	2069.16796	-0.3571581	0.31223348	-1.1438814	0.25267283	0.54598821
Scube2	32.8085556	-0.3571581	0.43154916	-0.8276185	0.40788658	0.69171692
Zcchc9	1458.54536	-0.35723	0.16624843	-2.148772	0.03165247	0.16545467
2700046A07f	42.7942303	-0.3572719	0.40541116	-0.8812581	0.37817815	0.66769396
Fetub	1352.99954	-0.3574604	0.28281281	-1.2639469	0.2062491	0.49102568
Mobp	265.154197	-0.3574928	0.32677821	-1.093992	0.27395848	0.56683453
Pik3c2b	1149.7228	-0.3576242	0.25949975	-1.3781291	0.16816344	0.44308872
4921536K21f	44.9515933	-0.3576387	0.35299406	-1.013158	0.31098471	0.60557516
Ska2	2809.05621	-0.3577268	0.20086436	-1.780937	0.07492275	0.2800778

Ckap2	9947.62154	-0.3577513	0.21283921	-1.6808526	0.09279155	0.31711237
BC003331	2054.6963	-0.3578473	0.18533494	-1.9308138	0.05350608	0.22915812
Whsc1	5098.66288	-0.3578648	0.24372329	-1.4683241	0.1420162	0.40278933
Nudcd1	6370.40024	-0.3578912	0.2006041	-1.7840671	0.07441276	0.27887373
Cdyl	4288.56383	-0.3579126	0.24911732	-1.4367232	0.15079665	0.41763825
Ano9	3658.52044	-0.357973	0.2513011	-1.4244786	0.15430798	0.42262123
Gpr137b	859.996731	-0.3581338	0.25958635	-1.3796328	0.16769974	0.44260371
Zmym2	8328.00717	-0.3582975	0.19102796	-1.8756285	0.06070631	0.2479758
Gnl3l	11388.5857	-0.3587752	0.17793513	-2.0163259	0.04376591	0.20199689
Triml1	3734.89099	-0.3589017	0.43225555	-0.8302998	NA	NA
Tcf15	246.84574	-0.3589649	0.31966859	-1.1229282	0.26146798	0.55368559
Ovol1	6.30027986	-0.3589934	0.40892441	-0.8778968	0.37999974	0.66893546
Lifr	3944.07035	-0.3590014	0.24994493	-1.4363218	0.15091078	0.41773167
Rps7	43210.0651	-0.359037	0.19439417	-1.8469537	0.06475385	0.25783728
Efcab14	2581.3162	-0.3591013	0.18823084	-1.9077707	0.05642086	0.23662822
Gnpat	9019.35582	-0.3592561	0.17366735	-2.068645	0.03857941	0.18760113
Bpnt1	7473.01417	-0.3593253	0.25281198	-1.4213142	0.15522542	0.4237087
Ankrd13b	430.819714	-0.359343	0.23692804	-1.5166756	0.12934861	0.38455938
Cd81	18688.212	-0.3593685	0.16963911	-2.1184294	0.03413872	0.17343717
Lpar1	5256.45956	-0.3594615	0.19675879	-1.8269145	0.06771262	0.26417435
Hmbs	4927.50342	-0.3595454	0.2007202	-1.7912765	0.07324894	0.27621102
Tet1	18226.092	-0.3596022	0.24692337	-1.4563314	0.14530104	0.40852947
Gsg1l	5.25484389	-0.359662	0.39385182	-0.9131912	0.361142	NA
Nudt2	1477.26079	-0.3597804	0.20883686	-1.722782	0.08492796	0.30220122
Gm4961	297.374134	-0.3599379	0.25880691	-1.3907585	0.16429866	0.43721913
Thumpd3	7632.42295	-0.3600209	0.15140201	-2.3779134	0.01741092	0.11253414
Nmt1	12733.3937	-0.360099	0.22177703	-1.6236986	0.10444015	0.3398475
P2rx7	632.804995	-0.3601501	0.22097468	-1.6298254	0.1031384	0.33766428
Trim56	179.303296	-0.3602277	0.33941656	-1.0613144	0.28854702	0.5820921
Tet3	808.766127	-0.3603613	0.28823902	-1.2502171	0.21122026	0.4978306
E130309F12F	4.03373858	-0.3604153	0.34183583	-1.0543521	0.29172176	NA
Pik3cb	2832.91355	-0.3604241	0.20710099	-1.74033	0.08180109	0.29577705
Sepsecs	562.599943	-0.3605056	0.2241104	-1.6086073	0.10770225	0.34655031
Celsr3	509.975752	-0.3605298	0.35640611	-1.0115703	0.31174357	0.60634544
Sgsm1	1430.76875	-0.3605348	0.19698173	-1.8302957	0.06720574	0.2633085
Pcf11	8368.58186	-0.3606848	0.16790707	-2.1481218	0.03170408	0.16561307
2410002F23F	5861.00229	-0.3607056	0.1650554	-2.1853609	0.02886239	0.15582582
Ankrd40	3563.9305	-0.3608019	0.16759782	-2.1527837	0.03133568	0.16418502
Ireb2	18457.1716	-0.3608661	0.20206206	-1.7859172	0.07411267	0.27818637
Mpp6	7328.89605	-0.3608982	0.17615112	-2.0487985	0.04048182	0.19271892
Lsm4	6943.62638	-0.360979	0.23700407	-1.5230919	0.1277357	0.38170982

Tbce	2730.25957	-0.361189	0.17823797	-2.0264426	0.04271944	0.1991746
Kmt2e	2167.92928	-0.3611891	0.23621624	-1.5290613	0.12624924	0.3792699
Nsd1	20733.745	-0.3612077	0.21504805	-1.6796603	0.09302342	0.31749931
Ror1	23.096367	-0.3612789	0.41989496	-0.860403	0.38956693	0.67794934
Bola3	1176.41521	-0.3613245	0.19650284	-1.838775	0.06594828	0.26019024
Fnta	8009.46998	-0.3613648	0.24616269	-1.4679916	0.14210651	0.40296716
Gppbp1l1	8654.55742	-0.3615162	0.15751991	-2.2950509	0.02173021	0.13047353
Prickle1	408.217626	-0.3615197	0.34347823	-1.0525259	0.29255832	0.58640437
Sft2d3	289.231752	-0.3615663	0.25379451	-1.4246419	0.15426073	0.42256626
Rpl7a	70828.8224	-0.3615759	0.17466412	-2.070121	0.03844101	0.18720125
Usp45	4752.90164	-0.3616263	0.20895748	-1.7306215	0.08351929	0.29919569
Fam83d	2364.53026	-0.3617876	0.21701708	-1.6670927	0.09549598	0.32290888
Map3k1	3012.98889	-0.3617993	0.21396818	-1.6909023	0.09085547	0.31378
Arhgap11a	5060.35202	-0.3618476	0.23314335	-1.5520393	0.12065282	0.36940975
Yeats4	4923.32956	-0.3619815	0.15722548	-2.3023079	0.02131781	0.12914425
D130017N08	18.4051449	-0.3620823	0.43225508	-0.8376588	0.40222235	0.68682988
Macf1	18944.2904	-0.3621848	0.2842234	-1.274296	0.20255852	0.487284
Psip1	22478.0604	-0.3622354	0.15924515	-2.2747027	0.02292377	0.13503318
Hist1h1a	40.0872976	-0.3624143	0.4255446	-0.8516482	0.39440935	0.682026
Pamr1	29.763339	-0.3624541	0.35838581	-1.0113516	0.31184817	0.60634544
Pwp1	8534.42451	-0.3625384	0.15359665	-2.3603272	0.01825882	0.1163224
Aldh18a1	6911.2257	-0.3625442	0.17084135	-2.1221106	0.03382845	0.17248075
BC048679	26.8421211	-0.3628762	0.42644552	-0.8509321	0.39480705	0.68226374
Tmco6	1151.6381	-0.3628929	0.29269463	-1.2398346	0.21503656	0.50233341
Tnfrsf19	2992.06529	-0.3630416	0.27083751	-1.3404407	0.18010211	0.4586911
Armxc2	1048.73564	-0.3631035	0.24591687	-1.4765294	0.13980182	0.39971171
Rfc1	15161.5363	-0.3633295	0.16808828	-2.1615396	0.03065368	0.16170129
Chst1	3.47869575	-0.36333	0.31416829	-1.1564821	0.24748401	NA
Gtpbp3	1837.87455	-0.3633869	0.19507155	-1.8628389	0.06248494	0.25214118
Il23a	168.219226	-0.3634704	0.34546736	-1.0521121	0.29274814	0.58651459
Tnrc6c	4075.50074	-0.3634899	0.2300908	-1.5797672	0.11416018	0.35801802
Rapgef6	3792.36748	-0.3635567	0.24721317	-1.4706203	0.14139382	0.40183728
Ilf3	19637.7599	-0.3636174	0.1704686	-2.1330464	0.03292092	0.16940874
Spcs3	12483.2835	-0.3637387	0.21010143	-1.7312526	0.08340672	0.29913696
Rnpepl1	1143.06825	-0.3637737	0.18606132	-1.9551278	0.05056799	0.22108034
Canx	70515.5214	-0.3638621	0.160367	-2.2689336	0.02327237	0.13631207
Zfp97	1137.28694	-0.3639036	0.19444858	-1.8714647	0.0612807	0.24933966
Nxph3	204.506021	-0.3640088	0.31275601	-1.1638747	0.24447477	0.53699054
Fam195b	1287.35986	-0.3641428	0.22191142	-1.6409377	0.10081036	0.33279315
Stom	821.94968	-0.3642501	0.32566154	-1.1184928	0.26335656	0.55541671
Eea1	2364.86821	-0.364323	0.22795597	-1.5982164	0.10999482	0.35044651

Dcps	4116.59356	-0.3643832	0.23374875	-1.5588668	0.11902791	0.36689611
Psme3	14634.6572	-0.3645455	0.17498442	-2.0833025	0.03722366	0.18289576
Klhl11	1122.85803	-0.364578	0.28028596	-1.3007359	0.19334888	0.47605581
Adh5	19915.5799	-0.3648262	0.18307061	-1.9928167	0.04628153	0.20910052
Mpl	4.01248577	-0.3649644	0.32844181	-1.1111996	0.26648246	NA
Plekhm3	1782.87756	-0.3650792	0.22812183	-1.6003694	0.10951665	0.34969305
Ccdc55	4264.96052	-0.3651932	0.21613574	-1.6896475	0.0910954	0.31424681
Snord104	222.584887	-0.3652384	0.27090779	-1.348202	0.17759343	0.45508222
Bin3	902.764211	-0.365273	0.22609744	-1.6155556	0.10619043	0.34339101
Gltpd2	15.7421352	-0.3654612	0.4261299	-0.8576286	0.39109756	0.67916942
Fam84b	427.755478	-0.3655196	0.28974741	-1.2615111	0.20712477	0.49250722
Trdmt1	792.494058	-0.3656082	0.18293715	-1.9985456	0.04565754	0.20760832
Gfpt2	3601.78031	-0.3656595	0.28470589	-1.2843411	0.19902264	0.48231277
Zfx	3517.85569	-0.365795	0.21760451	-1.6810082	0.09276132	0.31711237
Arid2	4820.1094	-0.3659887	0.2111362	-1.7334245	0.08302025	0.29854836
Fbxl13	4.88401106	-0.3661532	0.39197269	-0.9341293	0.35023718	NA
Rpl27a	32011.2541	-0.3662452	0.19848715	-1.8451833	0.06501088	0.25826729
Ywhae	84790.4502	-0.3662929	0.16149056	-2.2682001	0.02331701	0.13636812
Gm5523	106.424397	-0.3663248	0.3018378	-1.2136479	0.22488221	0.51436142
Zranb2	16698.5455	-0.3664995	0.18254654	-2.0077047	0.04467468	0.20475567
Gnb1l	869.102528	-0.3665039	0.19650199	-1.8651409	0.06216165	0.25121514
Gpa33	5661.80485	-0.3665982	0.17101697	-2.1436364	0.03206203	0.16647633
Tnfrsf1a	760.939755	-0.3666425	0.21147418	-1.7337461	0.08296315	0.29844087
Gdf15	534.192699	-0.3666891	0.2177963	-1.6836331	0.09225261	0.31634405
Sbf1	4324.38418	-0.3668288	0.21126121	-1.7363758	0.08249741	0.2973157
Sbno1	16925.6924	-0.3668685	0.19540155	-1.8775109	0.0604481	0.2473759
Mat2b	7678.2775	-0.366936	0.16170625	-2.2691518	0.0232591	0.1362857
Sln9	2339.04621	-0.3671303	0.33749396	-1.0878128	0.27667774	0.56928593
Fam58b	1092.68771	-0.3671702	0.20988512	-1.7493863	0.08022427	0.29210199
Sdr39u1	525.397706	-0.3673199	0.27894358	-1.316825	0.18789728	0.46932702
Ppapdc2	342.062345	-0.3674334	0.2540248	-1.446447	0.14805186	0.41292308
Odf2	20450.975	-0.3678117	0.18895395	-1.946568	0.05158655	0.22364716
Emc2	6068.43612	-0.3678546	0.22900828	-1.6062939	0.10820934	0.3475348
Trip10	3576.75847	-0.3679704	0.20565352	-1.7892736	0.07357076	0.27714546
Zfp821	585.913136	-0.3680368	0.24338881	-1.5121354	0.13049941	0.38645621
D5Erttd579e	2968.63082	-0.3681177	0.18546987	-1.9847843	0.04716847	0.21144909
2810408I11R	479.448922	-0.3681878	0.22212733	-1.657553	0.09740772	0.32618162
Ephb3	1781.62404	-0.36822	0.24157865	-1.5242242	0.12745272	0.38145058
Ifnlr1	764.434845	-0.368315	0.27168126	-1.3556881	0.17519844	0.45309298
Syk	2867.42281	-0.3683414	0.16105753	-2.2870176	0.0221948	0.1320934
Zfp42	14411.5363	-0.3683601	0.43226726	-0.8521583	0.39412622	0.681688

Pprc1	14633.7626	-0.3684255	0.22976576	-1.6034831	0.10882804	0.34865779
Hfe2	20.2704377	-0.3684372	0.43078909	-0.8552613	0.39240651	0.68030252
Anapc1	10362.6922	-0.3684386	0.23497193	-1.5680112	0.11687853	0.36300738
Dynlt3	1947.47653	-0.3685537	0.30419095	-1.2115867	0.22567062	0.51533095
Anapc5	26126.2215	-0.3686036	0.17205445	-2.1423662	0.03216403	0.16689449
Snord38a	10.4954742	-0.3688694	0.42913767	-0.8595596	0.39003187	0.67839532
Tmem168	3253.10235	-0.369078	0.16852151	-2.1900942	0.02851741	0.15484434
4833417C18f	187.909844	-0.3691574	0.29120028	-1.2677095	0.2049017	0.49027741
Zfp866	2067.44673	-0.3691603	0.23122458	-1.5965442	0.11036735	0.35105463
Tead4	3418.88848	-0.3692394	0.20779524	-1.7769387	0.07557832	0.28131126
Ankzf1	1888.53057	-0.3692432	0.23519336	-1.569956	0.11642535	0.36239604
Cdc42ep2	127.70044	-0.3694151	0.35472369	-1.0414164	0.29768233	0.59197672
Rock2	7294.56536	-0.3696066	0.22185488	-1.6659838	0.09571663	0.32323331
2610507I01R	95.6937997	-0.3697166	0.37929166	-0.9747553	NA	NA
ler5	522.849269	-0.3697365	0.28680901	-1.2891382	0.19735003	0.48043055
Gm3336	120.42238	-0.3697535	0.27185799	-1.3600981	0.17379887	0.45100512
Eif2s3x	4772.83557	-0.3699717	0.19227717	-1.9241582	0.05433475	0.23090918
Mybbp1a	46593.8171	-0.370201	0.23817516	-1.5543223	0.12010756	0.36891028
Sf3b6	5310.16411	-0.370207	0.17926307	-2.0651602	0.03890784	0.18833006
Lrrc36	5.4960533	-0.3702827	0.38646538	-0.9581266	0.33799894	NA
Morn4	819.071304	-0.3704165	0.21385648	-1.7320801	0.0832593	0.298953
Dmxl1	8035.03529	-0.3705162	0.25150267	-1.4732097	0.14069451	0.40101546
Rarg	3024.54059	-0.3705434	0.34540687	-1.0727736	0.28337272	0.57580419
Pycr2	4238.38688	-0.3706397	0.24782047	-1.4955975	0.13475858	0.39236673
Rab28	1793.56225	-0.3707071	0.16497289	-2.2470791	0.02463497	0.14132374
Bptf	13003.3921	-0.3707669	0.27938194	-1.327097	0.1844766	0.46450707
Syt14	247.226077	-0.3708672	0.28805801	-1.2874741	0.19792908	0.48094783
Gna11	4582.19643	-0.3711444	0.19148046	-1.9382886	0.05258802	0.22676332
Ddx50	7196.73878	-0.3711831	0.16099871	-2.3055033	0.0211384	0.12859479
Rhbdf2	2587.8727	-0.3712723	0.25142941	-1.4766463	0.13977047	0.39970037
Vwf	1642.33657	-0.3713303	0.2168403	-1.7124597	0.08681199	0.30640337
Figl1	13202.8434	-0.3714409	0.15807446	-2.3497845	0.01878428	0.11844095
Dst	20090.3845	-0.3715059	0.34389295	-1.0802951	0.2800108	0.5723512
Epcam	3762.6075	-0.371579	0.28221465	-1.3166539	0.18795466	0.46937977
Gm711	6.95352173	-0.3716272	0.42137674	-0.8819358	0.37781154	0.6675014
Rslan18	185.365885	-0.3716367	0.27989373	-1.3277777	0.18425155	0.4644599
Zfp688	586.124794	-0.3716569	0.22618159	-1.6431794	0.10034582	0.33187534
Usp35	341.136883	-0.3717128	0.2584069	-1.4384787	0.15029828	0.41655473
Mta1	5702.85039	-0.3718095	0.19716455	-1.8857825	0.05932427	0.24431984
Unc50	2042.30842	-0.3718338	0.16733415	-2.2221034	0.02627632	0.14661752
Nae1	7919.15479	-0.3718698	0.21890451	-1.6987763	0.08936134	0.31116396

Tfcp2	1302.21326	-0.372038	0.20582949	-1.807506	0.07068342	0.27052496
Ing1	4507.48515	-0.3721842	0.19321628	-1.9262567	0.05407233	0.2304409
Mplkip	1213.98649	-0.3721966	0.19307451	-1.9277354	0.05388804	0.23016012
Ik	11331.5414	-0.3722036	0.1522343	-2.4449392	0.01448766	0.09929377
Cep350	1891.54492	-0.3722301	0.27273204	-1.3648198	0.1723097	0.44929378
2900041M22	184.225537	-0.372286	0.31672685	-1.1754166	0.2398281	0.53178192
Ralgapa2	2206.56759	-0.3726398	0.19530367	-1.908002	0.05639096	0.23662597
Pum2	15722.5941	-0.3726529	0.18105096	-2.0582763	0.03956362	0.18991988
Fastk	4436.96293	-0.3729693	0.20552299	-1.8147329	0.06956497	0.26843792
Zfp54	285.809102	-0.3729868	0.21272311	-1.7533912	0.07953488	0.2910228
Etv2	69.5780532	-0.3729997	0.37120933	-1.0048231	0.31498206	0.6093449
Zfand1	1873.37832	-0.3730967	0.21584676	-1.7285257	0.08389403	0.29991632
AW146154	506.707991	-0.3734767	0.21936788	-1.7025133	0.08865919	0.30995588
St3gal3	1533.8672	-0.3734907	0.26394131	-1.4150522	0.1570532	0.42653412
Ccdc58	5331.28678	-0.3734926	0.19873062	-1.8793911	0.06019111	0.2467788
Gm16712	18.514329	-0.3736794	0.41924597	-0.891313	0.3727613	0.66269681
Kat5	2759.09397	-0.3737961	0.17427644	-2.1448461	0.03196516	0.16636216
Ubr5	41229.9495	-0.3740157	0.22100877	-1.6923114	0.09058661	0.31332569
Mum1	6056.77374	-0.3741134	0.17121496	-2.1850506	0.02888514	0.15582582
Ino80	5157.62541	-0.3744136	0.23373539	-1.6018694	0.10918449	0.34910823
Haus3	4106.58495	-0.3744869	0.17833203	-2.0999419	0.03573395	0.17908433
Riok1	2966.15251	-0.3745615	0.18815782	-1.9906772	0.04651639	0.2098568
Nol8	6788.51797	-0.3745694	0.17914559	-2.0908658	0.03654009	0.18129403
Hbq1b	3.92460237	-0.3745815	0.38424963	-0.974839	0.32964012	NA
Tnpo3	16825.9049	-0.374649	0.17166604	-2.1824291	0.02907788	0.15634584
lfit1	5.70016898	-0.3748983	0.37270248	-1.0058915	0.31446778	NA
Snord85	3.46363262	-0.3750413	0.38037918	-0.985967	0.3241493	NA
Glyctk	369.018993	-0.3750796	0.23192116	-1.617272	0.10581959	0.34251753
2010010A06f	15.6128205	-0.375081	0.43081175	-0.8706377	0.383952	0.67307378
Plin4	7.11262782	-0.3750914	0.42598366	-0.8805299	0.37857229	0.66771292
Cox10	1776.75124	-0.3751678	0.23728761	-1.581068	0.11386249	0.35771224
Rpl3	98851.549	-0.375256	0.18540722	-2.0239557	0.04297471	0.19991016
Palm2	50.1145594	-0.3753876	0.37904951	-0.9903393	0.3220083	0.61638983
Acly	55967.497	-0.3755728	0.17735422	-2.1176421	0.03420539	0.17358019
Ggh	1026.22997	-0.37561	0.22757366	-1.6504983	0.09884105	0.32887155
Mipep	2330.10626	-0.3756717	0.21537278	-1.7442857	0.08110929	0.29442822
Mir1968	11.9794763	-0.3758692	0.42927507	-0.8755906	0.38125266	0.67030641
Eral1	1973.82245	-0.3758712	0.19710376	-1.906971	0.05652434	0.23692994
Tex10	11580.4591	-0.375988	0.16657902	-2.2571152	0.02400088	0.13875005
Mettl10	1292.8678	-0.3760664	0.20336434	-1.8492248	0.06442536	0.256892
Atrip	1518.02207	-0.3761681	0.16341911	-2.3018611	0.02134301	0.12924655

Ogfod1	3793.64266	-0.3761962	0.2230416	-1.6866636	0.09166805	0.31531296
Ccdc171	377.830549	-0.3762809	0.20136052	-1.8686923	0.06166564	0.25012059
Kars	22839.0382	-0.3764473	0.22165508	-1.6983473	0.08944224	0.31119611
Ptpre	12.322433	-0.3765131	0.43202338	-0.8715108	0.3834753	0.67248981
Clcn3	11023.5424	-0.3765223	0.28047359	-1.3424519	0.17944951	0.45762863
Cnot7	7542.58287	-0.3769433	0.21790125	-1.7298814	0.08365146	0.29953116
Sgca	6.24256967	-0.3770961	0.41443087	-0.9099132	0.3628683	0.65337545
0610009O20l	2973.20213	-0.3772126	0.17102654	-2.2055794	0.02741346	0.15079829
Acsf3	633.525086	-0.3773948	0.21991338	-1.7161068	0.08614251	0.30489812
Tmx3	6821.66838	-0.3774716	0.19585014	-1.9273494	0.0539361	0.2301623
Cct6a	62427.757	-0.3774972	0.16031565	-2.3547118	0.01853708	0.11733675
Opa1	6299.76474	-0.3775148	0.18170172	-2.0776623	0.03774047	0.18485106
Naf1	2989.46359	-0.3775962	0.24102102	-1.5666527	0.11719589	0.36362993
Hist1h3e	7.95999761	-0.3777202	0.4187446	-0.9020301	0.36704089	0.65717579
Atp5c1	31572.0077	-0.3778381	0.17308807	-2.1829241	0.0290414	0.15629656
Gpbar1	5.66772786	-0.3779225	0.38903603	-0.9714331	0.33133265	NA
Zfp296	2910.80465	-0.3783365	0.26993658	-1.4015754	0.16104207	0.43209007
Usp48	24483.5876	-0.3783376	0.1561072	-2.4235755	0.01536856	0.10323821
Mgme1	3326.87107	-0.3786865	0.15847194	-2.3896121	0.01686617	0.10998951
Tnip1	5665.69856	-0.3787358	0.29902521	-1.266568	0.20530981	0.4903111
Pla2r1	35.2533107	-0.3790156	0.40731451	-0.9305231	0.3521003	0.64425364
Krr1	7729.80067	-0.3790566	0.16437975	-2.3059813	0.02111168	0.12859479
Aqr	12017.9657	-0.3791364	0.23301192	-1.6271116	0.10371339	0.33917927
Dld	8508.51884	-0.3791453	0.16352038	-2.3186426	0.02041442	0.12559556
Meis1	64.0116569	-0.3792742	0.33374458	-1.1364204	0.25578065	0.54856501
Ankle1	567.074598	-0.3792873	0.23903087	-1.5867714	0.11256444	0.35516021
Loxl2	173.172539	-0.3798831	0.38413549	-0.98893	0.3226974	0.61717713
4932438A13f	2976.12865	-0.3798984	0.26760398	-1.4196292	0.15571565	0.42438381
Tdp1	2715.12451	-0.3799142	0.17048228	-2.2284674	0.02584936	0.14538871
Rnf138	7877.79974	-0.3800604	0.16918825	-2.2463757	0.02467995	0.1415184
8030462N17l	3536.98788	-0.3801825	0.21868457	-1.7384973	0.08212322	0.29639063
Eps15l1	5760.67683	-0.3801873	0.20373815	-1.8660585	0.06203319	0.25096937
Irf2	42.2544546	-0.3802104	0.42488387	-0.8948573	0.37086339	0.66123557
Zcchc24	1633.58863	-0.3804781	0.3181058	-1.196074	0.23166768	0.52302118
Sox1	184.759506	-0.3805291	0.29375578	-1.2953927	0.1951848	0.47806832
Tomm70a	23602.3444	-0.3806424	0.16858931	-2.2578087	0.02395759	0.13873104
Zfp551	245.982077	-0.3806802	0.26311898	-1.4467987	0.14795331	0.41286456
Slco5a1	401.760203	-0.3806814	0.23072574	-1.6499305	0.09895714	0.32903197
Kcng1	51.5823813	-0.380826	0.43226153	-0.8810082	0.37831337	0.66771292
H60b	20.8604936	-0.3808447	0.41429042	-0.9192699	0.3579544	0.64918023
Cela2a	248.820433	-0.3809142	0.34917482	-1.0908982	0.27531766	0.56762479

1500011K16F	886.04665	-0.3809242	0.24268819	-1.5696033	0.11650743	0.3624409
Map10	1170.09439	-0.3810383	0.22121576	-1.7224737	0.08498374	0.30227639
Txnrd1	23175.5144	-0.3811718	0.25449651	-1.4977488	0.13419853	0.39146902
Glul	4953.67308	-0.3813969	0.19945594	-1.9121861	0.05585233	0.23532473
Enkur	3.96065978	-0.3814234	0.3515675	-1.0849222	0.2779561	NA
Rictor	3257.36229	-0.3814587	0.26615801	-1.4332039	0.15179957	0.418749
Khdc1a	72.5957335	-0.3814641	0.42776352	-0.8917641	0.37251941	0.66269681
Atxn1l	1210.43624	-0.381478	0.25717864	-1.4833191	0.13798965	0.3969436
Trim45	358.073543	-0.3815206	0.27959118	-1.3645659	0.17238952	0.44942656
Ptbp3	15488.8438	-0.3816585	0.19876518	-1.9201478	0.05483924	0.23230863
Snord49a	228.626107	-0.3817286	0.25818947	-1.4784826	0.13927864	0.39902765
D7Erttd715e	3005.56146	-0.3817535	0.21827136	-1.7489857	0.0802935	0.29214885
Tecta	15.3230199	-0.3819127	0.42835684	-0.891576	0.37262024	0.66269681
Fam73a	5261.23554	-0.3819146	0.22013812	-1.7348864	0.08276093	0.29798916
Slc6a9	531.539224	-0.3819304	0.24187816	-1.5790198	0.11433151	0.35824487
Zfp873	782.841274	-0.3819527	0.19354059	-1.9735017	0.04843844	0.21546514
Zfp317	4055.79405	-0.3819583	0.18034225	-2.1179638	0.03417813	0.17358019
6330419J24R	347.240113	-0.3819761	0.20166806	-1.8940831	0.05821398	0.24108803
Gabarapl1	2071.44805	-0.3820084	0.27320561	-1.398245	0.16203949	0.43326619
Tmem63a	859.822084	-0.3825408	0.3164452	-1.208869	0.22671316	0.51695254
Gm6498	11.0736824	-0.3826624	0.43195184	-0.8858912	0.37567614	0.6654252
Zfp445	8175.42632	-0.3830293	0.18249524	-2.0988455	0.03583052	0.17945264
Frs2	2779.72397	-0.3830439	0.25731062	-1.488644	0.13658114	0.39481981
Suz12	37542.4792	-0.3832072	0.19532036	-1.9619418	0.04976926	0.21905936
Dtwd2	1514.68183	-0.3832077	0.16446323	-2.3300508	0.01980347	0.12298871
Nfic	1205.605	-0.3833121	0.23778988	-1.6119782	0.10696669	0.34516082
Abce1	39537.846	-0.3833229	0.2312144	-1.6578679	0.09734413	0.3260389
9030624G23I	728.140249	-0.3837317	0.22311847	-1.7198565	0.08545853	0.30334471
Eno2	370.39148	-0.3839625	0.3239059	-1.1854136	0.23585395	0.52766001
Dpp3	10064.2285	-0.3839849	0.17199415	-2.2325461	0.02557889	0.14454118
Coq2	1646.96156	-0.3842258	0.2072217	-1.8541772	0.06371381	0.25529851
Wdr82	16906.4507	-0.3842265	0.15683187	-2.4499263	0.01428854	0.0983191
Hand1	14.8989869	-0.3843836	0.43227099	-0.8892191	0.37388532	0.66350457
Hist1h3i	2.38244019	-0.3847412	0.34948328	-1.1008858	0.27094638	NA
Fam160a1	93.764213	-0.3847614	0.32410046	-1.1871671	0.2351617	0.52698982
Caly	23.2330334	-0.3850044	0.42523255	-0.9053973	0.36525495	0.65529301
Cdc40	4716.30411	-0.3850242	0.16397942	-2.3480029	0.01887438	0.11888029
Cradd	766.201677	-0.3853337	0.31888567	-1.2083757	0.22690277	0.51708161
Magea8	83.9675154	-0.3854323	0.29415326	-1.3103112	0.19009059	0.47176806
Myom2	432.137091	-0.3854929	0.41133005	-0.9371863	0.34866272	0.64088124
Oas3	194.85224	-0.3855021	0.34139444	-1.1291986	0.25881407	0.55112352

Zfp1	1540.25794	-0.385635	0.31794042	-1.2129159	0.22516196	0.51458839
Rps14	55325.7267	-0.3857397	0.22882731	-1.6857239	0.09184899	0.3154469
Wwc1	3199.38866	-0.3857915	0.22015866	-1.7523339	0.0797164	0.29132599
Gck	73.3085939	-0.3859021	0.41951957	-0.9198667	0.35764244	0.64882146
Pgm5	7.24238356	-0.3859709	0.37110466	-1.0400595	0.29831227	0.59285036
Cdk1	17047.4264	-0.3860955	0.20318423	-1.900224	0.05740373	0.23881336
Phf20	11661.6768	-0.3861225	0.16018497	-2.4104787	0.0159316	0.10575075
Vps13d	3954.64089	-0.3861388	0.20380084	-1.894687	0.05813388	0.24101305
Axin2	1985.581	-0.3862399	0.37167334	-1.0391919	0.29871548	0.59342417
Fcho2	4656.14872	-0.3862601	0.20723177	-1.8639041	0.06233517	0.25178552
Rundc3b	646.214712	-0.3863227	0.22996122	-1.6799472	0.09296759	0.31739604
Kmt2d	5598.7432	-0.3863404	0.28117803	-1.3740063	0.16943974	0.44456849
Lmna	1893.28012	-0.3864174	0.27259695	-1.4175411	0.1563248	0.42521829
Smo	1175.63389	-0.3865837	0.25857885	-1.495032	0.13490608	0.39242882
Rfx4	31.9072702	-0.3868725	0.39322121	-0.9838547	0.32518695	0.6188465
Zfyve21	2255.1951	-0.3869378	0.2148289	-1.801144	0.07168019	0.27267578
Carkd	1264.21568	-0.3872366	0.24051886	-1.6100051	0.10739675	0.34592519
Pias4	2658.19776	-0.3872577	0.19355217	-2.0007925	0.04541476	0.20680672
Mrpl19	4068.26654	-0.3873348	0.17252207	-2.2451322	0.02475965	0.1416891
Slc7a11	51.8371538	-0.3873719	0.41069933	-0.9432006	0.3455783	0.63779826
Gipr	49.5083355	-0.3877531	0.35791846	-1.0833561	0.27865039	0.57092124
Tmem221	21.5779967	-0.3879448	0.431946	-0.8981327	0.3691148	0.65949566
Gucy1a2	306.047747	-0.3880598	0.30654922	-1.2658973	0.20554985	0.4904873
Cdkn2aipnl	6505.73851	-0.3880672	0.20986785	-1.8491027	0.06444299	0.25689641
Gm14326	646.688872	-0.3881905	0.2034133	-1.9083832	0.05634171	0.23654696
Pvrl3	3183.52852	-0.3882366	0.1980446	-1.9603496	0.04995494	0.21956082
Gm9899	3.73113054	-0.3882896	0.38032711	-1.0209358	0.30728487	NA
Fbxw17	380.500898	-0.3883311	0.23389408	-1.6602862	0.09685689	0.32510718
Vps35	29185.836	-0.3883695	0.19186538	-2.0241773	0.04295191	0.19986389
Fxyd1	2.02969318	-0.3889913	0.30435262	-1.278094	0.20121629	NA
Pou2f1	4464.74329	-0.3890193	0.27938168	-1.3924296	0.16379235	0.43630265
Aip	1988.64555	-0.3890333	0.19217586	-2.0243609	0.04293304	0.19986389
Fxyd5	200.454842	-0.3892694	0.38963441	-0.9990632	0.31776408	0.61159656
Bub3	8868.47691	-0.3894017	0.17106465	-2.2763425	0.02282552	0.13491433
Snrnp200	29332.9104	-0.389473	0.22653598	-1.7192544	0.08556806	0.30351181
Zfp68	1783.93733	-0.3894739	0.15996359	-2.4347657	0.01490144	0.10106267
Ube2v2	1504.3662	-0.3897256	0.20713525	-1.8815028	0.05990356	0.24598896
Vmac	1277.53125	-0.3899053	0.19312826	-2.0188932	0.04349833	0.2012024
Ubxn10	322.056199	-0.3900283	0.24353741	-1.6015127	0.10926341	0.34926109
Ptk7	8168.70006	-0.3900744	0.23526528	-1.6580195	0.09731353	0.32600663
Far1	9687.42018	-0.390193	0.16628514	-2.3465296	0.01894916	0.11916009

Rufy2	3535.08982	-0.3904354	0.17740512	-2.2008122	0.02774932	0.15193025
Khdrbs3	1751.28968	-0.3905749	0.18728741	-2.0854308	0.03703021	0.18252191
Parp16	627.621368	-0.3906551	0.20287432	-1.9256017	0.05415413	0.23059991
Mgat5	773.622128	-0.3907996	0.3619705	-1.0796449	0.28030036	0.57238395
Mkx	334.429288	-0.3908579	0.22093622	-1.7690983	0.07687748	0.28464801
Zfhx3	1542.00554	-0.3910956	0.30317738	-1.2899894	0.19705432	0.48021826
Prpf4b	8770.71229	-0.3912007	0.2206939	-1.7725943	0.07629596	0.28337199
Rpl10	42905.5849	-0.3912191	0.17391343	-2.2495046	0.02448041	0.14073748
Cyth4	43.6370954	-0.3914111	0.38828078	-1.0080619	0.31342476	0.60787966
Map1s	3020.3065	-0.391543	0.27536218	-1.4219202	0.15504943	0.4237087
Zeb2	14.856525	-0.3917561	0.42827424	-0.9147319	0.3603324	0.65127023
Gnpda2	1561.1068	-0.3919212	0.24765305	-1.5825413	0.11352605	0.35708809
Dph5	1614.1208	-0.3921492	0.19175982	-2.0450019	0.04085467	0.19369391
Ppfia4	2652.30582	-0.3922782	0.2010821	-1.9508361	0.05107654	0.2224908
Etv5	17398.5037	-0.3923376	0.2099085	-1.8690886	0.0616105	0.24999972
Lrfn1	634.614558	-0.3924701	0.23187062	-1.6926256	0.09052676	0.31332569
Nipsnap1	8261.54841	-0.3926666	0.21515035	-1.8250802	0.06798893	0.26474569
BC021891	21.4472469	-0.392714	0.43227223	-0.9084876	0.36362066	0.6537332
Armc10	4982.69625	-0.392738	0.16637136	-2.3606105	0.01824488	0.11628122
Aarsd1	5584.59119	-0.3927568	0.18838677	-2.0848428	0.03708357	0.18257395
Txndc16	960.458442	-0.3928092	0.27665909	-1.4198313	0.1556568	0.42429778
2310001H17I	4.99709181	-0.3928482	0.39245889	-1.0009919	0.31683074	NA
Rnf157	433.754672	-0.3929925	0.35094314	-1.1198182	0.26279125	0.55510278
4921524J17R	1780.35789	-0.393201	0.22439725	-1.752254	0.07973014	0.29132599
Arl11	134.316678	-0.3932316	0.39265764	-1.0014617	0.31660366	0.61108396
Aldh3b1	147.037831	-0.3935334	0.36687068	-1.0726761	0.28341647	0.57580419
Rasl11b	227.048197	-0.3935888	0.2567987	-1.5326744	0.12535609	0.37863766
Rnf220	7716.76017	-0.3940299	0.17248394	-2.2844438	0.02234546	0.13268206
Frem2	402.39026	-0.3942068	0.29449057	-1.338606	0.18069897	0.4593448
Pla2g2d	17.3081196	-0.3947667	0.42844421	-0.9213958	0.35684381	0.64797736
Mblac2	210.822554	-0.3948055	0.29197469	-1.3521909	0.17631425	0.45380054
Ehf	41.7725489	-0.3950482	0.40622699	-0.9724815	0.33081104	0.62402262
Ldlrad3	1121.04572	-0.3952021	0.29761884	-1.3278801	0.18421772	0.4644599
Cdca7	11351.6748	-0.3954808	0.14652489	-2.6990689	0.00695338	0.05974142
Mettl2	3512.72465	-0.3954878	0.20476701	-1.9314038	0.05343313	0.22909805
Fsd2	90.4002176	-0.3956118	0.42274426	-0.9358183	0.34936677	0.64174375
Smek2	7960.19106	-0.3956209	0.22545019	-1.754804	0.07929285	0.29047893
Rad21	28337.906	-0.3956405	0.16341658	-2.4210548	0.01547554	0.10350975
Gm1045	5.6885618	-0.3956414	0.34238106	-1.1555585	0.24786178	NA
Eif3e	26190.1448	-0.3957152	0.17293157	-2.2882763	0.02212143	0.13185527
Coasy	1925.8978	-0.3958978	0.2326333	-1.7018105	0.08879089	0.31002115

2-Sep	28265.1743	-0.3960001	0.14606585	-2.7111063	0.00670591	0.05833265
Mir3061	9.76684711	-0.3960391	0.43224588	-0.9162356	0.35954332	0.65029754
Zfp558	221.206816	-0.3961542	0.29040364	-1.3641503	0.17252027	0.44946602
4930415O20l	7.28271507	-0.3962615	0.40269051	-0.9840348	0.32509842	0.6188465
Bccip	8920.92964	-0.3963432	0.15485901	-2.5593812	0.01048587	0.07998991
Eif5a2	2500.18944	-0.3963567	0.21136902	-1.8751885	0.06076679	0.24810416
Nktr	5996.9762	-0.396406	0.24373195	-1.6264016	0.10386426	0.33919327
Spryd7	1465.65596	-0.3964684	0.22083538	-1.7953119	0.07260403	0.27469319
Zfp839	1245.70497	-0.3965228	0.18478164	-2.1458991	0.03188103	0.16620246
Ccdc90b	1687.33153	-0.3965937	0.20888976	-1.8985787	0.05761989	0.2392794
Lrrc2	4608.52045	-0.3966202	0.28378688	-1.3975989	0.16223355	0.43363595
Itpkb	168.430823	-0.3966799	0.32084096	-1.2363755	0.216319	0.50358934
9-Sep	9602.85506	-0.3969034	0.24049308	-1.6503733	0.0988666	0.32887155
Plekha4	613.715868	-0.3970353	0.27048241	-1.4678785	0.14213723	0.40296716
Ercc6l2	4248.24807	-0.3970552	0.19839098	-2.0013773	0.04535175	0.2066408
Cmtm4	6121.48051	-0.3970916	0.24027073	-1.6526841	0.09839518	0.32810942
Rims3	261.615133	-0.3971064	0.27821291	-1.4273471	0.15347987	0.42139963
Gpr18	2.096388	-0.3971375	0.28305052	-1.4030624	0.16059823	NA
Clybl	2634.59228	-0.3972321	0.23546002	-1.6870468	0.09159436	0.31522522
Serpine3	3.12067593	-0.3973037	0.35384785	-1.1228095	0.26151842	NA
Fbxo40	2.04902137	-0.3973215	0.30663717	-1.2957381	0.19506572	NA
Tymp	10.8814038	-0.3974713	0.43114246	-0.9219024	0.35657949	0.64779997
Kat2a	7249.09162	-0.3975692	0.20652673	-1.9250252	0.0542262	0.23071728
Lca5	602.861162	-0.3978296	0.23597935	-1.685866	0.09182161	0.31542255
Slc8a2	198.348713	-0.3978529	0.2967532	-1.3406863	0.18002234	0.45863256
Snord64	8.55980167	-0.3978715	0.40305276	-0.987145	0.32357156	0.61824073
Arhgef4	386.577385	-0.3981044	0.24492319	-1.6254254	0.10407194	0.33939891
Nr5a2	5935.84283	-0.3982135	0.23631945	-1.6850644	0.09197616	0.31581391
Nt5c3	1533.1187	-0.3983284	0.19705605	-2.0213966	0.04323873	0.20047866
Ppwd1	4135.37561	-0.3983523	0.19800481	-2.0118316	0.04423769	0.20335215
Kdm4c	6945.26737	-0.3984165	0.21901524	-1.8191266	0.06889211	0.26700698
Wrn	1839.14013	-0.3985069	0.22974656	-1.7345499	0.08282056	0.29806586
Cep131	1655.5009	-0.3987178	0.2127881	-1.8737787	0.06096094	0.24855888
Carns1	135.722485	-0.3987885	0.30832827	-1.2933895	0.19587638	0.47894238
Itgb3	572.77366	-0.399045	0.27187123	-1.4677721	0.14216613	0.40296716
Emr4	2.96105206	-0.3990487	0.33532794	-1.1900252	0.23403647	NA
Cdcp2	18.4522837	-0.3991935	0.41847355	-0.9539276	0.34012027	0.63351423
Dclre1c	2064.52282	-0.3992477	0.21026628	-1.8987718	0.05759449	0.2392794
Lmnb1	31983.9579	-0.3994052	0.19899558	-2.0071059	0.04473839	0.20486653
Prex2	380.621379	-0.3994855	0.36595545	-1.0916233	0.27499872	0.5675013
Tnfrsf14	6.51328785	-0.3995016	0.41226323	-0.9690449	0.33252281	0.62583232

Fbxw5	1538.77934	-0.3995555	0.17442953	-2.2906414	0.02198416	0.13131136
Fgd2	88.92355	-0.3996559	0.43049138	-0.9283714	NA	NA
Slc7a5	13914.7045	-0.3996587	0.22552772	-1.7721046	0.0763772	0.28353829
B330016D10l	38.6925716	-0.3999497	0.37907061	-1.0550797	0.29138888	0.58507276
Hnrnp2	4333.46896	-0.4000693	0.17723273	-2.2573107	0.02398867	0.13873104
Wwc2	6245.57356	-0.4000971	0.29885451	-1.3387689	0.18064593	0.45932388
Eda2r	4423.29888	-0.4002158	0.23563527	-1.6984545	0.08942201	0.31119611
Zbtb41	1626.40412	-0.4002216	0.21216732	-1.8863488	0.05924796	0.24413488
Slc38a5	28.4794068	-0.4002686	0.42529371	-0.9411579	0.34662392	0.63881828
Slc35f5	723.53783	-0.400304	0.34439244	-1.1623483	0.24509403	0.537854
Fzr1	5492.89824	-0.4003463	0.2124206	-1.8846867	0.05947215	0.24466969
Snora68	232.565991	-0.4009891	0.33852802	-1.1845078	0.2362121	0.52810283
Mapk6	9226.39552	-0.4012108	0.16357016	-2.4528362	0.01417349	0.09774363
Rad51ap1	3037.98811	-0.4012298	0.15440556	-2.5985451	0.00936198	0.07382763
Grpel2	2959.91556	-0.4015906	0.15767833	-2.5468977	0.01086853	0.08148388
Sars	18708.5344	-0.4016995	0.20779715	-1.933133	0.05321981	0.22884208
Bcl9	1567.34782	-0.4017243	0.20133365	-1.9953163	0.04600839	0.20850713
Lims1	6767.93189	-0.4019357	0.19533741	-2.0576483	0.03962391	0.19012386
Gm11517	13.1734021	-0.4019758	0.43222055	-0.9300247	0.35235831	0.64439796
Mospd2	1968.57748	-0.4020984	0.18498824	-2.1736431	0.02973195	0.15846274
Lnpep	2867.02261	-0.4021707	0.35001329	-1.1490156	0.25054954	0.54405045
Ablim2	780.933899	-0.4025638	0.34391549	-1.170531	0.24178733	0.53421167
Zfp874b	1173.46595	-0.4026994	0.20419481	-1.9721336	0.04859436	0.21577978
Kif18b	5185.35796	-0.4027011	0.21365847	-1.8847887	0.05945837	0.24466969
Golga4	9344.95181	-0.4027174	0.15808595	-2.5474584	0.01085108	0.08140944
Deaf1	2033.33333	-0.402867	0.20281175	-1.9864087	0.04698796	0.21094394
Tcea1	5391.83076	-0.4029298	0.16694944	-2.4134842	0.01580081	0.10527783
Map6d1	382.824474	-0.4030016	0.28351553	-1.4214445	0.15518759	0.4237087
Bpgm	1072.31	-0.4031572	0.19512742	-2.0661228	0.03881689	0.18832092
Kat6a	5686.77785	-0.4031843	0.29086606	-1.3861511	0.16570077	0.43935424
Atad3a	5388.30768	-0.403322	0.16978719	-2.3754563	0.01752727	0.11309816
Mef2d	1241.87529	-0.4034473	0.27425951	-1.471042	0.14127975	0.40171844
Ebna1bp2	8204.52356	-0.4036582	0.16143456	-2.500445	0.01240374	0.08917065
St6galnac6	1374.27025	-0.4037096	0.22860069	-1.7660033	0.07739529	0.28561324
Lyar	9006.54274	-0.4037369	0.17120889	-2.3581541	0.01836607	0.11671872
Clock	3475.84326	-0.4037824	0.19478655	-2.0729481	0.03817711	0.18618201
Atrx	22861.5086	-0.4038183	0.24929176	-1.6198624	0.10526183	0.34152447
Tbl1x	3586.71637	-0.4038893	0.26251005	-1.5385669	0.12391006	0.37572572
Glrx	2247.0694	-0.403926	0.3352461	-1.2048641	0.22825578	0.51887234
Gm13212	895.448396	-0.4039896	0.29104723	-1.3880551	0.16512026	0.43856279
Zfp106	37231.725	-0.4040081	0.19821366	-2.0382457	0.04152537	0.19544824

Nyap1	525.452375	-0.4040487	0.2106973	-1.917674	0.05515236	0.23325384
Trappc6a	1169.76945	-0.4041368	0.29278255	-1.380331	0.16748476	0.44231821
Rps6	43919.7123	-0.4046065	0.20741441	-1.9507154	0.0510909	0.2224908
Dusp11	6648.29401	-0.4047174	0.16679059	-2.4265002	0.01524524	0.10263148
Wdr55	2286.60073	-0.4047592	0.17383929	-2.3283527	0.01989338	0.12344853
Zbtb38	1644.73567	-0.4048543	0.22471511	-1.8016336	0.07160307	0.2726443
Birc5	9106.20495	-0.404889	0.17184408	-2.3561417	0.01846587	0.11711369
Gm16880	21.3551032	-0.4051823	0.42425588	-0.9550424	0.33955626	0.63307031
Mtmr14	3344.83761	-0.4052165	0.19542684	-2.0734948	0.03812625	0.18603746
Atp2b3	39.5991694	-0.4053603	0.43226692	-0.9377546	0.34837056	0.6406706
Gatsl2	305.242509	-0.4054473	0.30867711	-1.3134998	0.1890146	0.47055017
Stxbp2	5605.1029	-0.4054611	0.25790316	-1.5721446	0.11591701	0.36168247
Smu1	15569.3688	-0.4054831	0.15161567	-2.6744145	0.00748599	0.06313154
Spin1	5264.50433	-0.4056248	0.21333782	-1.9013264	0.05725927	0.23865959
Plekhh3	349.435423	-0.4056449	0.29913084	-1.3560785	0.1750742	0.45308351
Nol11	11216.2218	-0.4057814	0.18446839	-2.1997341	0.02782576	0.15220487
Cables1	670.252238	-0.4057894	0.32367765	-1.2536838	0.20995697	0.49635769
Lrrc17	6.02433717	-0.4058622	0.40254203	-1.0082481	0.31333538	0.60787966
Slc36a3	23.0421169	-0.4061857	0.42663478	-0.9520689	0.34106203	0.63465177
Trim3	1031.27586	-0.4063041	0.19497354	-2.0838936	0.03716985	0.18280466
Epha1	44.9964639	-0.406377	0.43019287	-0.9446391	0.34484318	0.63773152
2610524H06l	1494.78167	-0.4064184	0.2166391	-1.8760157	0.06065312	0.24782988
Ccdc39	201.12511	-0.4065014	0.29343971	-1.3852978	0.16596142	0.43974546
Cyp3a13	17.5572315	-0.4068409	0.42998607	-0.9461722	0.34406076	0.63732661
Fam185a	1463.66318	-0.4068871	0.21612859	-1.882616	0.05975242	0.24543315
Zfp367	2871.51624	-0.4070013	0.19822913	-2.0531862	0.04005452	0.19132821
Tmem55b	4207.35166	-0.4071394	0.16946195	-2.4025415	0.01628159	0.10742776
C1d	3441.87802	-0.4071642	0.20833043	-1.9544153	0.05065213	0.22126158
Cks1brt	3.15504812	-0.4072362	0.35449365	-1.1487829	0.25064551	NA
Rev3l	5811.97813	-0.4072933	0.26457153	-1.5394449	0.12369572	0.37555488
Nup205	18813.9071	-0.4076116	0.18870661	-2.1600282	0.03077049	0.16198777
Yae1d1	998.707757	-0.4076207	0.22710095	-1.7948878	0.07267158	0.27476678
Trappc9	1831.57174	-0.4077051	0.19986561	-2.0398963	0.04136066	0.19532548
Papd7	2285.06258	-0.4078309	0.18877549	-2.1604018	0.03074158	0.1618904
Zfp941	1300.41204	-0.408695	0.1824022	-2.2406253	0.02505035	0.14269526
Dexi	323.198184	-0.4090191	0.23611179	-1.7323112	0.08321816	0.29887429
Casp3	7527.73449	-0.4090459	0.22946471	-1.7826094	0.07464992	0.27936486
Phex	11.9304403	-0.4091094	0.43018763	-0.9510022	0.34160326	0.63498354
Sfrp1	13639.2154	-0.4091279	0.20931565	-1.9545978	0.05063056	0.2212295
Grin2c	85.9860807	-0.4094981	0.42062304	-0.9735513	0.33027939	0.62369343
Syn3	40.9221475	-0.4095275	0.37477136	-1.0927397	0.27450811	0.56715903

Ndufb5	8934.24649	-0.4096025	0.19447926	-2.10615	0.03519133	0.17733647
Kdm4b	2789.69263	-0.4101451	0.24796763	-1.6540268	0.09812208	0.3276452
Sgms1	2914.34049	-0.4102347	0.20927644	-1.9602525	0.04996629	0.21956082
Msmo1	15737.6633	-0.4104022	0.20625621	-1.9897691	0.04661638	0.20988317
Bdkrb1	5.0137144	-0.4109476	0.35478833	-1.1582895	0.24674591	NA
Gm12298	4.67014069	-0.4110848	0.39271327	-1.046781	0.29520061	NA
Naaladl1	168.958464	-0.411129	0.26458872	-1.5538419	0.12022214	0.36901616
Nrgn	58.8630695	-0.4112678	0.40152397	-1.0242671	0.30570913	0.60009099
BC055324	6495.52767	-0.4115402	0.15343039	-2.6822602	0.00731265	0.06196749
Zbtb25	900.242943	-0.4116622	0.20842381	-1.9751206	0.04825446	0.21501579
Gm5089	7.24755005	-0.4117424	0.39523117	-1.0417762	0.29751545	0.59189285
Lfng	87.8383371	-0.4119007	0.39906219	-1.0321716	0.30199174	0.59705597
Hist1h2ai	4.4850627	-0.4121497	0.39841507	-1.0344731	0.30091504	NA
Vps13b	3457.46087	-0.4121898	0.21631955	-1.9054672	0.05671937	0.23749134
Pdzd7	314.370668	-0.4124027	0.33651225	-1.2255205	0.22037918	0.50895393
Kdm7a	1598.17126	-0.412445	0.293923	-1.4032417	0.16054477	0.4319432
Gjb5	1868.36395	-0.4124678	0.31678302	-1.3020514	0.19289882	0.47560633
Dlgap1	293.144109	-0.4125477	0.38215043	-1.0795426	0.28034591	0.57238395
Fzd10	2634.53915	-0.4125975	0.2335759	-1.7664388	0.07732226	0.28561324
Wdr16	90.2529943	-0.4127929	0.39637261	-1.0414265	0.29767766	0.59197672
Tex26	24.4438586	-0.4128178	0.41884678	-0.9856058	0.32432657	0.618534
4930414L22F	54.2223849	-0.412907	0.33670861	-1.2263037	0.22008442	0.50864133
2610015P09F	931.143372	-0.4130275	0.22853688	-1.8072686	0.07072041	0.27054687
Unc93b1	328.328912	-0.4130573	0.33585939	-1.2298517	0.21875263	0.50706041
Osbp15	124.925232	-0.4138132	0.35137694	-1.1776904	0.23892006	0.53094189
Eif3d	23647.3229	-0.4139609	0.18237778	-2.269799	0.02321978	0.13620929
Dusp13	29.1803327	-0.4141117	0.43200179	-0.9585879	0.33776638	0.63097804
Rpl22	45046.7249	-0.4141646	0.21720179	-1.9068193	0.05654399	0.23694843
Efhb	220.910361	-0.414303	0.28334121	-1.4622051	0.14368502	0.40532857
D230025D16	11530.1583	-0.4143147	0.23924633	-1.7317494	0.0833182	0.29895739
Sft2d1	357.895029	-0.414358	0.22468548	-1.8441691	0.0651585	0.25842385
Wdr43	19096.1999	-0.4144192	0.16757745	-2.4730007	0.01339839	0.09393974
Zgrf1	2447.21946	-0.4144955	0.20559028	-2.0161242	0.04378699	0.20199689
Snord91a	21.842139	-0.4149808	0.41842608	-0.991766	0.32131168	0.61558678
Rnf32	321.93228	-0.4151546	0.27077537	-1.5332066	0.12522497	0.37835116
Setdb1	10105.7223	-0.4154209	0.23467939	-1.7701634	0.07669992	0.28426131
1700025G04I	1213.96203	-0.4154288	0.22898902	-1.8141867	0.06964899	0.26869547
Tnks2	33210.5715	-0.4155116	0.162276	-2.5605238	0.01045145	0.07982835
Hist1h2ag	4.99558905	-0.4157891	0.40100525	-1.0368669	0.29979788	NA
B3gntl1	1120.06416	-0.4158589	0.20050098	-2.074099	0.03807011	0.18588017
Ntmt1	1559.05172	-0.4161528	0.22200607	-1.874511	0.06086003	0.24837426

Tmem106b	3377.07308	-0.4163186	0.19629301	-2.1209039	0.03392989	0.17282793
Ppid	14960.7693	-0.4164308	0.18575646	-2.2418108	0.0249736	0.14236991
C1s1	354.040525	-0.4167033	0.39410956	-1.0573287	0.2903616	0.584217
Gps1	6397.36776	-0.4168545	0.15802979	-2.637822	0.00834404	0.06836572
Eif3i	16342.9095	-0.4168933	0.19218567	-2.1692215	0.03006587	0.15962936
Zfp428	4030.3658	-0.4169105	0.23818492	-1.7503646	0.08005542	0.29191981
Gm884	8.85561374	-0.4169879	0.4122393	-1.011519	0.31176808	0.60634544
Psmc6	19084.5886	-0.4171525	0.16802815	-2.4826348	0.01304147	0.09222734
Lrig3	2088.68777	-0.4172357	0.22800073	-1.8299752	0.06725364	0.2633085
Fam208a	11876.5467	-0.4174262	0.21537954	-1.9380958	0.05261154	0.22676332
Hist1h1b	7.12502076	-0.4175548	0.42393193	-0.9849572	0.3246451	0.61877141
Agfg2	1764.38472	-0.4176105	0.20772049	-2.0104446	0.04438415	0.2037243
Aim2	6254.96142	-0.4177426	0.21459113	-1.9466909	0.05157181	0.22364716
Gm2382	80.0922026	-0.4180665	0.34609837	-1.2079411	0.22706991	0.51714743
Pskh1	1722.30808	-0.418257	0.2180665	-1.9180248	0.05510786	0.23325384
Acsl1	3503.8679	-0.4185973	0.20022415	-2.0906432	0.03656006	0.18129641
Mis18a	1991.26787	-0.4187838	0.16314451	-2.56695	0.01025974	0.07876795
Itpr1	3631.68541	-0.418988	0.20548601	-2.0390098	0.04144905	0.19532548
Oxld1	186.419368	-0.4192383	0.32445685	-1.2921234	0.19631443	0.47933634
Slc25a41	20.7068056	-0.4192587	0.42034945	-0.9974052	0.31856788	0.61238106
Cars	13004.968	-0.4192641	0.15818886	-2.6504023	0.0080396	0.06678621
Actr8	3136.54408	-0.4195641	0.16196641	-2.5904391	0.00958536	0.07501857
Tmem178	31.6438728	-0.4196208	0.42550551	-0.9861701	0.32404966	0.618534
Fbxo5	6676.90425	-0.4197235	0.19885003	-2.110754	0.03479346	0.17581822
Spata7	1090.5526	-0.4197296	0.16774948	-2.5021214	0.01234516	0.08892059
Lrrcc1	2555.55867	-0.4197643	0.20959667	-2.0027243	0.04520689	0.20622717
Pnpt1	9212.03782	-0.4197764	0.1584483	-2.6492958	0.00806597	0.06696951
Baiap2l1	229.859577	-0.4197841	0.24672517	-1.7014239	0.08886342	0.31019417
Rhebl1	1295.4247	-0.4199553	0.19575703	-2.1452884	0.0319298	0.1663151
Hdac5	3139.73757	-0.4200157	0.26429115	-1.5892159	0.11201167	0.35389952
Bcas1	309.948889	-0.420121	0.31768961	-1.3224258	0.18602639	0.46659618
4933402E13F	410.545711	-0.4201508	0.35057	-1.198479	0.23073058	0.52243612
Cox4i2	48.9642677	-0.4201553	0.41522278	-1.0118791	0.31159587	0.60623388
Sptan1	27638.8168	-0.4202293	0.22494938	-1.8681061	0.06174729	0.25019074
Cdca4	4210.71255	-0.420248	0.19428527	-2.1630463	0.03053762	0.16125314
Zfp330	4436.48296	-0.420427	0.23958348	-1.7548245	0.07928933	0.29047893
D630045J12F	1076.28322	-0.4205351	0.24051837	-1.7484532	0.08038559	0.29234712
Fam204a	1723.68775	-0.4205987	0.20465742	-2.0551354	0.03986592	0.19098069
Rpl37	34340.6519	-0.4207522	0.22003867	-1.912174	0.05585387	0.23532473
Tbc1d22a	1423.49799	-0.4208063	0.20772333	-2.0258019	0.04278509	0.19938596
Top1mt	456.089252	-0.4208067	0.22999636	-1.8296233	0.06730628	0.26331573

Etaa1	5935.87205	-0.4210336	0.19039049	-2.2114212	0.02700668	0.14914095
Oas1h	4.71596422	-0.4211228	0.29916851	-1.407644	NA	NA
Fam81a	3159.08461	-0.4211454	0.26744622	-1.574692	0.11532756	0.36027701
Pkn3	1174.42289	-0.4213302	0.18663439	-2.2575161	0.02397584	0.13873104
Cxcl11	6.76367603	-0.4213684	0.39395985	-1.069572	0.28481199	0.57774517
Plekhn1	198.677484	-0.4214319	0.28267831	-1.4908533	0.13600001	0.39384286
Nup43	7337.37718	-0.4214804	0.16999405	-2.4793834	0.01316098	0.09262695
Ccdc85a	103.151413	-0.4214852	0.41183394	-1.0234347	0.30610234	0.60042854
Tnfaip6	166.945751	-0.4215036	0.39029888	-1.0799508	0.28016411	0.57238012
Olfm2	91.0372304	-0.4215844	0.34481713	-1.2226319	0.22146878	0.50971707
Arhgef3	1595.18627	-0.4216067	0.26188454	-1.6098955	0.10742067	0.34593061
Fgf3	328.783685	-0.4217148	0.25233415	-1.6712553	0.09467127	0.32102766
Gm5595	2579.93133	-0.4217672	0.21773075	-1.9371046	0.05273256	0.22703322
BC025920	99.8977935	-0.4219565	0.32486178	-1.29888	0.1939851	0.47678006
Elmo2	3130.48462	-0.422075	0.227168	-1.8579861	0.06317099	0.25397417
Abhd2	2108.80201	-0.4221566	0.29180914	-1.4466874	0.14798451	0.41286456
Robo1	2768.00039	-0.4222771	0.25388278	-1.6632757	0.09625725	0.32400358
Cog5	2459.53898	-0.4224382	0.18817545	-2.2449164	0.0247735	0.1416891
Lin54	2603.54802	-0.4225008	0.21424769	-1.9720204	0.04860727	0.21577978
Zfp763	1517.57618	-0.422655	0.19573488	-2.1593238	0.03082506	0.16216525
1700030K09F	1059.91198	-0.4226849	0.25118881	-1.6827378	0.09242587	0.31658914
Bard1	3839.25388	-0.4228426	0.20812004	-2.0317244	0.04218156	0.1974016
Sdad1	9780.54595	-0.4230219	0.15569234	-2.7170376	0.00658691	0.05748209
Zcchc14	2038.48408	-0.4230622	0.21935684	-1.9286481	0.05377456	0.229928
Gnl3	21734.9542	-0.4231758	0.17705312	-2.3901063	0.0168435	0.10996357
A630010A05I	12.0796073	-0.4232233	0.40812297	-1.0369995	0.29973607	0.59454027
Gpatch11	1198.00358	-0.4232609	0.20137819	-2.1018208	0.03556897	0.17860945
Osbpl6	409.303762	-0.4233414	0.40226417	-1.0523964	0.2926177	0.58640437
Sh2b3	608.028745	-0.4233721	0.20875969	-2.0280357	0.0425566	0.19862566
Atoh1	5.77474839	-0.4234097	0.40795748	-1.0378771	0.29932726	NA
Dars	20671.8999	-0.4234154	0.17367802	-2.4379333	0.0147715	0.10047016
Cct5	50607.8443	-0.4234936	0.16715201	-2.5335833	0.01129029	0.083927
Snord19	85.5101442	-0.4235777	0.31653719	-1.3381608	0.18084403	0.45952704
Arsj	7.27947867	-0.4237143	0.40493496	-1.0463762	0.29538738	0.59006926
Gemin5	7600.61453	-0.4237457	0.23209883	-1.8257121	0.06789364	0.26468135
Stk38	14302.4376	-0.4237939	0.21298857	-1.9897495	0.04661854	0.20988317
Hook2	2836.56839	-0.4239839	0.25745047	-1.646856	0.09958764	0.33006978
Phc1	14369.0652	-0.4240957	0.23825677	-1.7799945	0.07507685	0.28025934
Zfp354b	44.7365722	-0.4241121	0.34994815	-1.2119284	0.22553981	0.51510788
Espl1	9878.9116	-0.4241202	0.23149295	-1.8321084	0.06693527	0.26278979
Gm8580	3.39523367	-0.4243836	0.37762994	-1.123808	0.26109447	NA

Ddhd2	3825.15935	-0.424418	0.23314584	-1.8203971	0.06869855	0.26648321
Gltscr2	12477.2694	-0.4244244	0.1735511	-2.4455301	0.01446394	0.09926242
Stag3	4850.78966	-0.4244892	0.30835703	-1.3766158	0.16863105	0.44348648
A730056A06l	6.43315054	-0.4245123	0.41128994	-1.0321484	0.30200259	0.59705597
Ints4	7307.35492	-0.4245733	0.14619108	-2.9042352	0.00368151	0.03768843
Prima1	16.5189898	-0.4246694	0.43204322	-0.9829326	0.32564061	0.61915114
Slc10a7	3377.55672	-0.4249713	0.18774305	-2.2635795	0.02359999	0.13750599
9130019O22l	165.526896	-0.4249995	0.24545572	-1.7314712	0.08336776	0.2990662
Oxct1	7984.13075	-0.425046	0.1754611	-2.4224516	0.01541618	0.10337948
Tgfb1	280.313385	-0.4251108	0.36281826	-1.1716907	0.24132125	0.53389786
Zdhhc17	1640.77673	-0.4252085	0.17552371	-2.4225135	0.01541355	0.10337948
Gm20605	75.9749227	-0.4253341	0.3783165	-1.1242811	0.2608938	0.55289719
Cdkl5	325.174851	-0.42536	0.27796527	-1.5302631	0.12595163	0.37885621
Zfp174	217.164826	-0.4254299	0.29751491	-1.4299448	0.15273285	0.42030588
5730405O15l	62.8525786	-0.4254329	0.39009396	-1.0905909	0.27545294	0.56766083
Aldh6a1	3156.31554	-0.4254665	0.16330653	-2.6053244	0.00917873	0.07289331
Ttc38	522.228891	-0.4256278	0.19299996	-2.2053259	0.02743123	0.15081954
Rnf7	10045.9386	-0.4256527	0.33591883	-1.2671295	0.20510898	0.4903111
Paqr3	363.877469	-0.4256629	0.25174006	-1.6908828	0.0908592	0.31378
Alyref	9838.85649	-0.4257273	0.20045104	-2.1238466	0.03368297	0.17190807
Slc11a1	406.276356	-0.4260815	0.41427554	-1.0284978	0.30371573	0.5985887
Fahd1	671.895504	-0.4262557	0.2263322	-1.8833189	0.05965717	0.24522196
Odf1	3.12911759	-0.4266316	0.32424758	-1.3157588	0.18825502	NA
Abcb11	11.1237937	-0.4268033	0.29424696	-1.4504935	NA	NA
Evc	756.153132	-0.4268202	0.23885395	-1.7869505	0.07394549	0.27769291
Dars2	3357.59484	-0.4268483	0.17497007	-2.4395504	0.01470555	0.10027622
Cmtr2	1396.00148	-0.426955	0.25266325	-1.6898185	0.09106268	0.31420362
BC048546	2.85592138	-0.4270426	0.34692126	-1.2309496	0.21834173	NA
Sec14l2	702.720918	-0.4270786	0.2259023	-1.8905457	0.05868502	0.24244475
Zfp825	1018.50819	-0.4271021	0.16727728	-2.5532582	0.01067203	0.08075951
Sbsn	74.1880272	-0.427107	0.36013093	-1.1859769	0.23563143	0.52749347
Ago1	7309.15459	-0.427631	0.25676403	-1.665463	0.09582042	0.32344952
Slc12a1	9.83194985	-0.4277389	0.42163338	-1.0144807	0.31035343	0.60487608
Zfp101	961.184749	-0.4281101	0.21537575	-1.987736	0.04684089	0.21046596
Olfml1	216.617796	-0.4281522	0.28335674	-1.5110007	0.13078827	0.38666893
Banf1	14701.5846	-0.4283706	0.20463193	-2.0933713	0.03631602	0.18077801
Baiap3	205.560154	-0.428422	0.37609899	-1.1391204	NA	NA
Rabif	4943.05014	-0.4285873	0.17556982	-2.4411214	0.01464173	0.09999717
Uevld	1610.38918	-0.4286068	0.2007539	-2.1349863	0.03276213	0.16898306
Crmp1	548.674675	-0.428974	0.38492033	-1.1144488	0.26508668	0.55685032
2810021J22R	1161.52414	-0.4290441	0.23595814	-1.818306	0.06901738	0.26716458

Apc	9470.44043	-0.4290492	0.27252774	-1.5743324	0.11541063	0.3603537
Siae	1095.29163	-0.4292712	0.21533851	-1.9934717	0.04620982	0.20895868
Mtmr2	5504.64763	-0.4293743	0.14830244	-2.8952613	0.00378843	0.03838038
Stc2	843.979343	-0.4294854	0.32747681	-1.3114988	0.18968931	0.4714053
Zkscan2	201.012448	-0.4295159	0.25789722	-1.6654538	0.09582226	0.32344952
Ttc14	8178.31795	-0.429582	0.18840598	-2.2800867	0.02260254	0.13372895
Cdc27	8433.01451	-0.4296831	0.22017081	-1.9515898	0.05098692	0.22228697
Gbgt1	265.744934	-0.4297118	0.30005377	-1.4321162	0.15211058	0.41948425
Unk	1763.85066	-0.429932	0.21090915	-2.0384702	0.04150293	0.19544364
Edrf1	3970.95296	-0.4304541	0.18817802	-2.2874836	0.02216761	0.1320799
St3gal6	91.1755791	-0.4305288	0.40141434	-1.0725298	0.28348216	0.57581387
Ahctf1	15513.5643	-0.4306649	0.22048318	-1.9532779	0.05078668	0.22164643
Igln5	9.40080092	-0.4308317	0.42494574	-1.0138511	0.3106538	0.60523599
Bmp7	939.799867	-0.4308996	0.34218144	-1.2592722	0.20793202	0.49345463
Pdzd4	1414.19436	-0.4309034	0.22136454	-1.9465783	0.05158532	0.22364716
5730409E04F	285.734947	-0.4309669	0.23253015	-1.8533808	0.0638278	0.25555771
Strn4	5091.88393	-0.4310963	0.18669637	-2.3090769	0.02093932	0.12779721
4933440M02	6.30084297	-0.4311715	0.41259864	-1.0450143	0.29601636	0.59070325
Sfi1	397.762454	-0.4314426	0.39916612	-1.0808598	0.27975949	0.57221358
Zwilch	9209.67882	-0.4316946	0.15380865	-2.8066993	0.00500519	0.04703796
St3gal4	1849.93151	-0.4320442	0.21932971	-1.969839	0.04885682	0.21621299
Kat2b	7439.31707	-0.4320886	0.19240469	-2.2457279	0.02472144	0.1416315
Abcb7	7144.25371	-0.4321686	0.18783065	-2.3008415	0.02140059	0.12925061
Zim1	22.5491552	-0.4322025	0.4223987	-1.0232099	0.30620862	0.60048553
Srebf1	6793.82629	-0.4323231	0.27558409	-1.5687518	0.11670578	0.36261569
Csrp2bp	3977.27583	-0.4323257	0.20447077	-2.1143644	0.03448415	0.1745648
Lypd5	2.21511017	-0.4324442	0.29244054	-1.4787423	0.13920921	NA
Nr1d1	519.799777	-0.4328387	0.2891237	-1.4970708	0.13437484	0.39168943
Slc9a8	2295.96237	-0.4330054	0.16184291	-2.6754673	0.00746251	0.06303616
Fam169a	8392.23699	-0.4331482	0.20011938	-2.1644491	0.0304299	0.16079352
Crx	10.7080575	-0.4333531	0.4125512	-1.0504225	0.29352389	0.58737844
Atp4a	13.5385532	-0.4334895	0.43220919	-1.0029624	0.31587902	0.61021548
Acot9	8606.00452	-0.4334996	0.17150717	-2.5275887	0.01148488	0.08472551
Ctage5	5985.70421	-0.4336059	0.1999803	-2.1682431	0.0301402	0.15991477
Lcp2	3.41117334	-0.4336399	0.33743458	-1.2851079	0.19875457	NA
Mbip	1907.63321	-0.4337334	0.1785972	-2.4285564	0.01515907	0.10231712
Fam114a1	257.214896	-0.4337646	0.37587439	-1.1540148	0.24849411	0.54187974
Tulp1	111.710679	-0.4337734	0.32051723	-1.3533546	0.17594239	0.45374462
Zfp629	182.09072	-0.433827	0.34453182	-1.2591783	0.20796596	0.49345463
Babam1	3366.07009	-0.433849	0.21276159	-2.0391322	0.04143684	0.19532548
Rpl13	34039.0553	-0.433923	0.22552246	-1.9240789	0.0543447	0.23090918

Gal3st3	186.365248	-0.4340368	0.41383393	-1.0488188	0.2942615	0.58856085
9930021J03R	3063.92283	-0.4343574	0.22574905	-1.9240721	0.05434555	0.23090918
Stk35	6206.18455	-0.4344812	0.229093	-1.8965276	0.05789031	0.24019536
1500012F01F	5212.5975	-0.4346003	0.21594912	-2.0125124	0.04416595	0.20308242
Snx2	11662.6876	-0.4346255	0.25263834	-1.7203467	0.08536945	0.30316973
Enthd1	29.9088825	-0.4346564	0.43172059	-1.0068002	0.31403078	0.60841899
Micu1	865.938678	-0.4347304	0.18203421	-2.38818	0.01693205	0.11021778
Ppp1r12b	159.57741	-0.4348848	0.33425421	-1.3010601	0.19323787	0.47593318
Pes1	15927.3508	-0.4351272	0.19288826	-2.2558511	0.02407996	0.13915549
Kank2	12313.1371	-0.4352332	0.17058144	-2.5514689	0.01072699	0.08098075
Vwa8	1938.47865	-0.4352943	0.17944307	-2.425807	0.01527439	0.10269633
Snord100	325.619128	-0.4354439	0.33768758	-1.2894874	0.19722869	0.48031705
Tpmt	1084.43386	-0.4354931	0.23847207	-1.8261808	0.06782303	0.26447241
Sdhc	6644.26709	-0.435749	0.17253984	-2.5254979	0.01155345	0.08502965
Intu	924.980315	-0.4357841	0.22863868	-1.9059948	0.05665088	0.23726846
Rp2h	2930.44271	-0.4364009	0.23092891	-1.8897628	0.05878969	0.2426967
Gcnt1	1997.61697	-0.4364519	0.21020851	-2.0762807	0.03786799	0.1850873
Foxa2	10.4011763	-0.437176	0.42788831	-1.0217059	0.30692011	0.60142636
Rad9a	2879.09507	-0.4373549	0.17273986	-2.5318704	0.01134559	0.08418971
Zfp689	527.915645	-0.43739	0.20042377	-2.1823258	0.02908549	0.15634584
Larp4	13171.8712	-0.4376517	0.17759503	-2.464324	0.0137272	0.09547055
Strbp	7120.35354	-0.4378106	0.1909531	-2.2927651	0.02186153	0.13090824
Nle1	2126.3377	-0.437947	0.28793197	-1.5210085	0.12825771	0.38231469
Hist1h1d	6.53514499	-0.4380235	0.42046752	-1.0417535	0.29752598	0.59189285
Serpine2	798.300031	-0.4380349	0.35366396	-1.2385625	0.21550756	0.50275397
Mir290	61.5130048	-0.4382967	0.42638576	-1.0279347	0.30398056	0.59883476
Zufsp	846.399093	-0.4384518	0.19460705	-2.2530109	0.02425846	0.13982331
Foxred2	1375.5692	-0.4385128	0.20761415	-2.1121525	0.03467337	0.17535139
Trp53i11	1020.10449	-0.4390742	0.21524783	-2.0398541	0.04136486	0.19532548
Pisd-ps2	733.085919	-0.4391041	0.1775266	-2.4734552	0.01338136	0.09386265
Cd5	11.9498967	-0.4391226	0.43214359	-1.0161498	0.30955805	0.60444616
Syt5	59.7862489	-0.4391435	0.42784486	-1.0264083	0.30469916	0.59956683
Bcor	4285.70307	-0.4392214	0.23099581	-1.9014257	0.05724628	0.23865959
Med30	2257.08797	-0.4392488	0.20113595	-2.1838403	0.02897398	0.15607012
Gm10324	661.979897	-0.4392772	0.27652844	-1.5885426	0.11216371	0.3543079
Foxh1	1890.58764	-0.4397792	0.2599905	-1.6915203	0.09073748	0.31363827
Wee1	5368.65742	-0.4397907	0.20063187	-2.1920283	0.02837746	0.15440794
Sms	2437.42102	-0.4398885	0.19307951	-2.2782766	0.0227101	0.13428318
Lilra5	3.91031729	-0.439907	0.31885947	-1.3796265	0.16770168	NA
Hirip3	6340.47798	-0.4399469	0.21775049	-2.0204174	0.04334011	0.20074101
Arnt	7196.29735	-0.4400375	0.19189255	-2.2931455	0.02183963	0.13082744

Phyh	5190.72955	-0.4400895	0.22054755	-1.9954404	0.04599487	0.20850713
Acaa2	3401.21426	-0.4401493	0.23950264	-1.8377637	0.06609723	0.26043013
Kcnq1	8.17842593	-0.4404908	0.40818394	-1.0791478	0.28052185	0.57255444
Gclm	3597.98468	-0.4405107	0.25158904	-1.7509136	0.07996079	0.29182592
Insig1	11881.0714	-0.4406787	0.25750875	-1.7113154	0.0870229	0.30681806
Satb1	178.366497	-0.4408089	0.3746408	-1.1766175	0.23934821	0.5313496
Tsks	174.375395	-0.4409997	0.34430214	-1.280851	0.20024601	0.48369458
Adssl1	378.187492	-0.4412915	0.39838772	-1.1076935	0.26799422	0.56067606
Inpp1	6615.76488	-0.4413103	0.27278873	-1.617773	0.10571152	0.34245662
Gm12504	44.2074948	-0.4413891	0.36720227	-1.2020327	0.22935085	0.52030092
Rpl19	62018.8085	-0.4414897	0.24426552	-1.807417	0.07069728	0.27052496
Rfng	1544.61761	-0.4416095	0.20195349	-2.1866892	0.02876522	0.15543015
Dis3l	1634.41399	-0.4416784	0.18738321	-2.3570864	0.01841896	0.11695928
Iars2	9771.84618	-0.4418414	0.20293035	-2.1773058	0.02945776	0.15731373
Ccdc24	41.5724838	-0.441903	0.38141475	-1.1585891	0.24662373	0.53953931
Mcm8	2699.39169	-0.4419184	0.18495405	-2.3893413	0.01687861	0.10998951
Rpsa	92105.2888	-0.4419332	0.20761185	-2.128651	0.03328315	0.17053911
Slc41a2	56.5556909	-0.442038	0.35669612	-1.2392565	0.21525053	0.50260677
Lmx1b	43.1853518	-0.4420409	0.40978333	-1.0787186	0.2807132	0.5727301
Adamts14	624.448437	-0.4421154	0.31787399	-1.390851	0.16427062	0.43721913
Hif3a	530.261684	-0.4421376	0.23111757	-1.9130418	0.0557427	0.23498367
Ptpn13	1599.98926	-0.4421574	0.26302873	-1.6810234	0.09275838	0.31711237
Cdkal1	1848.25883	-0.4422118	0.16337747	-2.7066875	0.00679582	0.05874465
Chd1	9573.42443	-0.4424585	0.21890489	-2.0212362	0.04325532	0.20049584
Clec11a	56.9045997	-0.4432744	0.34574334	-1.2820909	0.19981075	0.48279318
M1ap	2285.18957	-0.443397	0.31747557	-1.3966335	0.16252383	0.43388979
Kcnh3	772.246131	-0.4436339	0.28254599	-1.57013	0.11638488	0.3623426
Efcab11	354.024984	-0.4437284	0.30701667	-1.4452908	0.14837623	0.41351231
2610008E11F	417.169426	-0.4437615	0.20784012	-2.1351097	0.03275205	0.16898306
Aym1	9.59309748	-0.4438313	0.42997045	-1.0322368	0.30196119	0.59705597
Kifc3	586.724403	-0.4438837	0.41555638	-1.0681671	NA	NA
Rpl38	11339.3981	-0.443899	0.23626906	-1.8787862	0.06027369	0.24692207
Ints2	7799.17775	-0.4439384	0.23462464	-1.892122	0.05847473	0.24189476
Atg9b	594.076069	-0.4439769	0.32965207	-1.3468046	0.17804318	0.4556391
Igbp1	6308.50093	-0.444161	0.18811256	-2.3611448	0.01821862	0.11619705
C1rl	238.436495	-0.4447117	0.30101129	-1.4773922	0.13957055	0.39955955
Hus1	5054.23675	-0.4447336	0.18569548	-2.3949622	0.01662208	0.10902149
Katnbl1	2940.13486	-0.4450175	0.19239995	-2.3129813	0.02072366	0.12677959
Polk	2255.84865	-0.445165	0.22163161	-2.008581	0.04458159	0.20438924
Hyls1	2329.78377	-0.4452175	0.19030699	-2.3394702	0.01931111	0.12075076
BC018242	210.276234	-0.4455335	0.29854341	-1.4923574	0.13560548	0.39328705

Srfbp1	3514.45203	-0.4455648	0.16107466	-2.7662006	0.00567136	0.05169718
Mapk3	3118.83672	-0.4455691	0.19774614	-2.253238	0.02424415	0.13982331
Dennd4c	2226.09785	-0.44573	0.26358629	-1.691021	0.09083279	0.31378
Hnrnpa3	3568.09863	-0.4457317	0.23523235	-1.8948569	0.05811136	0.24098394
Usp30	1410.91745	-0.4457526	0.24531517	-1.8170608	0.06920781	0.26772403
Glt28d2	11.4793385	-0.4457814	0.43227169	-1.0312528	0.30242227	0.5977337
Fndc4	185.845979	-0.4457949	0.28908464	-1.5420913	0.12305141	0.37447602
Rlim	6218.75748	-0.4458644	0.27748472	-1.6068071	0.10809669	0.34731645
Lgals8	724.525068	-0.4459406	0.24565311	-1.8153266	0.06947373	0.26821738
Ly6g6e	1710.0391	-0.4459706	0.36032164	-1.2377014	0.21582679	0.50281353
Pm20d2	694.845057	-0.4459998	0.26067573	-1.7109371	0.08709273	0.30690664
Fanci	9151.69746	-0.4460571	0.18660575	-2.3903715	0.01683134	0.10993033
Them7	4.15984128	-0.4465233	0.38171298	-1.1697881	0.24208626	NA
Cep192	12355.0256	-0.4466016	0.20289823	-2.2011115	0.02772813	0.15193025
Nup155	15191.3883	-0.4468143	0.1652929	-2.703167	0.00686822	0.05917376
Mylip	1130.13733	-0.4470207	0.20098609	-2.2241376	0.02613919	0.14621961
Sgtb	517.289164	-0.4473794	0.29368909	-1.5233094	0.1276813	0.38169396
Slc22a5	697.598623	-0.4474182	0.24111776	-1.8556006	0.06351051	0.25481218
Peg3	2969.66032	-0.4475711	0.42811422	-1.045448	0.29581597	0.59051371
Sash1	5936.53342	-0.4476139	0.26654366	-1.6793267	0.09308839	0.31752214
Zp1	4.74622375	-0.4478265	0.3403895	-1.3156296	0.18829841	NA
Eif4a1	112193.369	-0.4479585	0.15979804	-2.8032788	0.00505859	0.04743073
Chic1	1617.30465	-0.447968	0.24637575	-1.8182311	0.06902883	0.26716458
Clip3	405.211389	-0.448167	0.30724971	-1.458641	0.14466393	0.40736725
Ehbp1	1700.26868	-0.4484213	0.1587256	-2.8251354	0.00472606	0.04510592
Prr14l	6484.7296	-0.448692	0.21532775	-2.083763	0.03718173	0.18280529
Rgs17	7.0915858	-0.4487024	0.4144473	-1.0826525	0.27896269	0.5713085
Ythdc2	2177.71886	-0.4490909	0.25793207	-1.7411209	0.08166238	0.29540165
Nipsnap3b	2612.052	-0.4491125	0.1776661	-2.527846	0.01147647	0.08472551
Malt1	1508.03578	-0.4492705	0.17558626	-2.5586883	0.01050679	0.07998991
Hnrnpul1	11506.3942	-0.44936	0.19608852	-2.2916183	0.02192768	0.13110241
Gpd1l	4327.59437	-0.4493952	0.18074133	-2.4863998	0.01290429	0.09142351
Arsa	1239.28285	-0.4494238	0.25248136	-1.7800277	0.07507143	0.28025934
Znrd1as	855.542884	-0.4495624	0.22933863	-1.9602559	0.04996588	0.21956082
Dhodh	2634.96761	-0.4496673	0.20635256	-2.1791213	0.02932266	0.15701257
Tcf3	9356.44011	-0.4496703	0.19347292	-2.3242027	0.02011463	0.12457295
1700008I05R	63.278135	-0.4498148	0.42714929	-1.0530622	NA	NA
Ybx3	20005.2827	-0.4500283	0.19675043	-2.287305	0.02217802	0.13209133
Mtm1	2458.73389	-0.4500332	0.20266856	-2.2205381	0.02638227	0.14678734
Hdac11	618.494356	-0.4500904	0.26723029	-1.6842793	0.0921277	0.3161216
Chd2	8123.05712	-0.4502015	0.20035236	-2.2470487	0.02463691	0.14132374

Exoc1	3170.38736	-0.4502314	0.17809004	-2.528111	0.01146781	0.08472551
Ncapd2	17704.6244	-0.4502549	0.22544106	-1.9972181	0.0458015	0.20789817
Zfp932	953.957462	-0.4503861	0.19928809	-2.2599749	0.02382281	0.13828612
Pnpla3	1763.86574	-0.450556	0.23106411	-1.9499175	0.05118595	0.2227176
Inpp5d	10357.2579	-0.4505797	0.2296726	-1.9618347	0.04978174	0.21905936
Cflar	148.463889	-0.4505973	0.34611685	-1.3018647	0.19296265	0.47563199
Rasa2	1165.9597	-0.4506406	0.2303087	-1.9566806	0.05038503	0.2207437
Ces2b	7.88580286	-0.4506964	0.39932834	-1.1286361	0.25905138	0.55124631
Slc13a3	2.53482544	-0.451044	0.33795635	-1.334622	0.18200008	NA
Ints10	7258.47263	-0.4511849	0.16196193	-2.7857466	0.00534046	0.04952265
5830415F09F	989.834734	-0.451476	0.17995301	-2.5088548	0.01211233	0.08797702
Arhgap12	6239.69342	-0.4515274	0.18756831	-2.4072692	0.01607232	0.10644831
Got1l1	1085.27937	-0.4516172	0.32335331	-1.3966679	0.16251348	0.43388979
Nrros	241.440658	-0.451715	0.27235003	-1.6585826	0.09719993	0.32597718
Fam221b	2.98588638	-0.4517582	0.35006495	-1.2904981	0.19687776	NA
Ufl1	4282.28981	-0.4517932	0.18213785	-2.4805013	0.01311978	0.09256078
Tmem98	214.701399	-0.4518584	0.24951893	-1.8109182	0.07015352	0.26968196
Kcnn4	6.58356333	-0.4519057	0.42053994	-1.0745845	0.28256078	0.57490302
Tcf4	3455.97194	-0.4520174	0.25272103	-1.7886021	0.07367892	0.27716036
Mitf	5146.94008	-0.4520631	0.26902037	-1.6804048	0.09287857	0.31723143
Stk24	5650.15619	-0.4520938	0.2292814	-1.9717859	0.04863405	0.21577978
Mafg	2276.86085	-0.4523931	0.22719956	-1.9911708	0.04646211	0.20973362
Emc10	4240.44085	-0.4524934	0.17374569	-2.6043434	0.00920505	0.07303454
Sqle	9666.2138	-0.4526582	0.15773638	-2.8697133	0.00410844	0.04053958
Zfp114	27.6786633	-0.4528861	0.40516399	-1.1177847	0.26365894	0.55541671
Dguok	1073.1699	-0.4529202	0.20786701	-2.1788939	0.02933955	0.15701257
Psca	5.95717633	-0.4529457	0.41221769	-1.0988022	0.27185434	0.56527591
Fhl4	132.349847	-0.4529935	0.35762583	-1.2666688	0.20527374	0.4903111
Mau2	4577.02412	-0.4531258	0.20361909	-2.2253601	0.02605707	0.14612821
Ccsap	665.228857	-0.4532956	0.17447578	-2.5980429	0.00937568	0.0738794
Med1	6415.52895	-0.4533478	0.27933668	-1.6229442	0.10460134	0.33994888
Fam135a	2064.39116	-0.453404	0.21950074	-2.0656149	0.03886486	0.18832092
Mast3	1359.99922	-0.4534167	0.24844229	-1.8250382	0.06799526	0.26474569
Il20ra	10.2269556	-0.4534306	0.35302423	-1.2844178	NA	NA
Qser1	3670.58143	-0.4535121	0.27512036	-1.6484135	0.09926786	0.32971261
Rnaseh2b	8616.12902	-0.4537225	0.20763183	-2.1852259	0.02887229	0.15582582
Hcn3	175.117138	-0.453832	0.26349169	-1.7223769	0.08500126	0.30227639
Zfp934	572.567001	-0.4539097	0.34160577	-1.328753	0.18392948	0.46440776
Zfp952	1128.11929	-0.4539121	0.17988265	-2.5233791	0.0116233	0.08534182
Aurka	9304.28386	-0.4539993	0.21764385	-2.0859734	0.03698104	0.18247163
Cyp2f2	6.52553762	-0.4541255	0.37864851	-1.1993325	0.23039867	0.52183654

Aqp11	249.287947	-0.4541269	0.29306517	-1.5495765	0.1212432	0.37070775
Gm11426	7.69458094	-0.4541382	0.41359126	-1.0980363	0.27218866	0.56560113
Batf2	31.394885	-0.4543368	0.39150971	-1.1604739	0.24585592	0.53902516
Pdyn	9.26699309	-0.4543802	0.41823084	-1.0864339	0.27728706	0.56955371
Slc11a2	2312.23066	-0.4545774	0.24673891	-1.8423418	0.06542517	0.25921701
Ranbp2	18947.9325	-0.4548048	0.22526291	-2.0189954	0.04348769	0.2012024
Kcnh4	21.7578151	-0.4548158	0.43190017	-1.0530578	0.29231451	0.58609887
Stk39	272.336987	-0.4549021	0.35132785	-1.2948081	0.19538644	0.47812031
Ptprj	2168.40897	-0.4551112	0.21561733	-2.1107357	0.03479503	0.17581822
Grm4	62.4767482	-0.4551551	0.38464541	-1.1833109	0.23668595	0.52845704
Atp8b2	5669.28577	-0.4554572	0.30963332	-1.4709568	0.1413028	0.40171844
Pcbp3	707.358474	-0.4555471	0.19162696	-2.37726	0.01744179	0.11268684
Sec23a	12134.973	-0.4555664	0.15430276	-2.9524193	0.00315294	0.03390833
Mars	15117.6324	-0.4556684	0.17983316	-2.53384	0.01128202	0.083927
Plin5	58.7873501	-0.4556854	0.34479402	-1.3216163	0.18629594	0.46712159
Fgfr11	844.149416	-0.4558412	0.27845468	-1.6370389	0.10162233	0.33481545
Gk5	1411.81452	-0.4558809	0.26064643	-1.7490393	0.08028422	0.29214885
Fam60a	1755.40019	-0.4561847	0.15061052	-3.0289032	0.00245443	0.0282618
Tjp1	10442.9948	-0.456864	0.23708486	-1.9270062	0.05397886	0.23016871
Mier2	2106.83776	-0.4569342	0.16754066	-2.7273035	0.00638543	0.05613328
Bdkrb2	47.4074313	-0.4571464	0.3824267	-1.1953832	0.23193736	0.52341574
Nob1	5497.90407	-0.4573673	0.23159048	-1.9748969	0.04827985	0.21506529
Spidr	4564.88327	-0.4574288	0.21803474	-2.0979627	0.03590844	0.17978499
Dnaaf1	48.6104999	-0.4575497	0.38693618	-1.182494	0.23700976	0.52909706
1700066M21	1242.63981	-0.4576922	0.16549701	-2.7655619	0.00568248	0.05173787
4632434111R	4676.75012	-0.4577958	0.19439379	-2.3549917	0.01852312	0.11733675
Slc47a2	129.794776	-0.4579429	0.29270973	-1.5644949	0.11770139	0.3642587
Gm5086	17.12916	-0.4580689	0.43205596	-1.0602074	0.28905024	0.58221217
Spata24	369.196987	-0.4581203	0.27590068	-1.6604537	0.09682321	0.32510718
Tmtc4	1961.27022	-0.45836	0.18395844	-2.4916497	0.01271514	0.09048042
Lsm6	3380.40219	-0.4584545	0.21796204	-2.1033686	0.03543356	0.1782683
BC005764	44.3007895	-0.4587923	0.36001824	-1.2743586	0.20253635	0.487284
Pon3	132.834132	-0.459059	0.4304122	-1.0665566	NA	NA
Rpl11	37491.3732	-0.4592385	0.21691486	-2.117137	0.03424822	0.17370974
D3Ertd254e	2491.60049	-0.4592996	0.19624924	-2.3403894	0.01926365	0.12064798
Gm572	6.86709023	-0.4593556	0.41838438	-1.0979273	0.27223623	0.56560396
Dync1i2	9082.17351	-0.459392	0.14092659	-3.2597966	0.00111492	0.01584839
Nudt21	1191.52442	-0.460045	0.21624459	-2.127429	0.03338445	0.17094555
Srebf2	16275.172	-0.4601859	0.19652674	-2.3415942	0.01920158	0.12040476
Rpl12	114485.776	-0.4603499	0.21006784	-2.1914345	0.02842037	0.15447924
Mgrn1	4959.6824	-0.4604631	0.21717213	-2.1202678	0.03398347	0.17298753

Cntnap2	399.725026	-0.4609759	0.35851841	-1.2857802	0.19851978	0.48154439
Zfp788	1324.5005	-0.4610035	0.1832553	-2.5156354	0.0118818	0.08670295
Zfp280d	3551.32275	-0.4610521	0.21083165	-2.1868257	0.02875525	0.15543015
Zscan26	4042.8716	-0.461058	0.16127953	-2.8587507	0.00425313	0.04157159
A4galt	4630.17229	-0.4611978	0.25461661	-1.811342	0.07008793	0.26958628
Yars	11444.786	-0.4612089	0.17070117	-2.7018495	0.0068955	0.05934248
Ptpn6	2540.56639	-0.4612876	0.19941097	-2.3132508	0.02070886	0.12673885
Zfp608	20.0260469	-0.461423	0.43210899	-1.0678394	0.28559298	0.57853274
Tnik	364.719861	-0.4617724	0.28039118	-1.6468863	0.09958141	0.33006978
B230219D22l	6132.99614	-0.4618253	0.21091948	-2.1895809	0.02855464	0.1549824
Actl6a	18143.8899	-0.462131	0.15886244	-2.909001	0.00362586	0.03735909
Gm13032	29.7916312	-0.4621949	0.41146328	-1.1232956	0.26131197	0.5536198
Usp10	11556.3181	-0.4622317	0.22695766	-2.0366427	0.04168586	0.19578884
Zfp7	6278.34445	-0.4622318	0.18035965	-2.5628336	0.01038218	0.07945536
Myh7b	2186.94189	-0.4622489	0.20211952	-2.2870079	0.02219536	0.1320934
Mynn	3637.04744	-0.4622611	0.16889888	-2.7369102	0.00620192	0.05486126
Ubtf	19681.2002	-0.4625408	0.16235014	-2.8490325	0.00438524	0.04251551
Mpc1	739.024387	-0.462663	0.23843651	-1.9404033	0.0523307	0.22611689
Abhd13	2790.12788	-0.4628973	0.21451516	-2.1578767	0.03093742	0.1626463
Npas2	91.1034933	-0.4632181	0.35952936	-1.2884013	0.19760631	0.48086773
Hmgxb4	5104.28762	-0.4640939	0.26928768	-1.723413	0.08481387	0.30207154
Gm15091	33.9511694	-0.4641055	0.43176785	-1.074896	0.28242129	0.57481886
Klhl17	881.522639	-0.4641861	0.22345743	-2.0772908	0.03777472	0.18496056
Sv2c	41.7893151	-0.4642219	0.432238	-1.0739959	NA	NA
2610034M16	28.3959412	-0.4644715	0.41265347	-1.1255727	0.26034645	0.5523497
Slc2a7	127.168465	-0.4648446	0.33721983	-1.3784617	0.16806079	0.44308872
Taok3	737.414736	-0.4649455	0.28335029	-1.6408859	0.1008211	0.33279315
Zfp235	446.39957	-0.4649688	0.22958191	-2.025285	0.04283811	0.19951344
Plag1	608.16086	-0.4651071	0.27372018	-1.6992066	0.08928026	0.31102091
Clec12a	4.82886467	-0.4651852	0.30895052	-1.505695	0.1321455	NA
Aox2	14.0122073	-0.465246	0.4309768	-1.0795153	0.28035808	0.57238395
Zfp322a	3446.31488	-0.4655682	0.19492539	-2.3884432	0.01691992	0.11018498
Gzf1	2696.50994	-0.4656167	0.17535035	-2.6553507	0.0079226	0.06595522
Zfp930	3558.05281	-0.4656196	0.2002686	-2.3249758	0.02007325	0.1243662
Lonrf1	2682.93708	-0.4656487	0.2562868	-1.8169049	0.06923168	0.26774978
Rpl3l	166.083713	-0.465748	0.31206737	-1.4924598	0.13557865	0.39328705
Stil	2310.51441	-0.4657933	0.16148643	-2.8844112	0.00392146	0.03944545
Btbd2	3709.4181	-0.4663339	0.24409667	-1.9104475	0.05607562	0.23581177
Fam221a	373.307826	-0.4670443	0.3347409	-1.3952411	0.16294314	0.43463615
Pou3f1	105.840853	-0.4671192	0.41729493	-1.1193982	0.26297029	0.55517933
Pcbp4	3527.37888	-0.4672305	0.22300974	-2.0951123	0.03616101	0.18049079

Oas1f	22.8622529	-0.4672839	0.39158383	-1.1933178	NA	NA
Dnd1	502.340813	-0.4674643	0.20680554	-2.2604052	0.02379611	0.13819502
Gngt2	155.465643	-0.4675995	0.3288302	-1.4220091	0.1550236	0.4237087
Adam32	78.4578567	-0.4676039	0.38054128	-1.2287863	0.21915192	0.50767638
Slc7a14	7.22112317	-0.4676833	0.41413113	-1.1293122	0.25876618	0.55112352
Asnsd1	7884.03524	-0.4677001	0.16334566	-2.863254	0.00419314	0.0410627
Igsf8	1577.58243	-0.4678781	0.22014647	-2.1253039	0.03356126	0.17145573
A730090N16	14.4935844	-0.4679976	0.42757144	-1.0945483	0.27371456	0.56667239
Rwdd3	253.964326	-0.4680703	0.34725559	-1.347913	0.17768638	0.45514757
Dnaic1	74.7291565	-0.4686491	0.34565704	-1.3558211	0.17515611	0.45309298
Sipa1l2	4948.50982	-0.4687033	0.27052031	-1.7325993	0.08316691	0.2988278
Mpp3	32.7967233	-0.4688466	0.41471303	-1.1305327	0.25825183	0.55088501
Slco2b1	9.5118142	-0.4690199	0.40198096	-1.1667714	0.24330271	0.53577799
Anp32e	19038.0485	-0.4690504	0.14806606	-3.1678455	0.00153573	0.01986868
Gga3	3374.63966	-0.4691154	0.20923759	-2.2420227	0.02495991	0.14236991
Rgs7	6.90148398	-0.4691995	0.415462	-1.1293439	0.2587528	0.55112352
Terf1	15200.8122	-0.4693171	0.18591321	-2.5243883	0.01158998	0.08517762
Pkp2	2039.82874	-0.4694058	0.28165014	-1.6666273	0.09558854	0.32308136
A330069E16f	44.3606959	-0.4695772	0.37734069	-1.2444382	0.21333832	0.5002449
Sp1	16927.0818	-0.4695986	0.1883694	-2.4929663	0.01266809	0.09038692
Oplah	507.993453	-0.4697114	0.39897894	-1.1772837	0.23908229	0.53111297
Atf7ip2	1231.91117	-0.4697732	0.2226253	-2.1101519	0.03484527	0.17599183
Zdhhc20	4086.89184	-0.4698683	0.1894554	-2.4800996	0.01313457	0.09256078
S1pr4	45.3487459	-0.4698893	0.3806961	-1.2342897	0.21709498	0.50464037
Flna	24683.9152	-0.4700518	0.26551418	-1.7703454	0.07666962	0.28423856
Fbxo31	1811.65138	-0.4702692	0.22387942	-2.1005469	0.03568076	0.17900288
Zfyve20	2681.39732	-0.47032	0.22848105	-2.0584638	0.03954563	0.18991988
Pex7	2435.66449	-0.4706833	0.2408717	-1.954083	0.0506914	0.22137095
Zkscan8	1878.74368	-0.4707705	0.22240695	-2.1167076	0.03428467	0.17378125
Usp43	553.584183	-0.4708525	0.33158789	-1.419993	0.15560973	0.42424385
Nasp	64875.8715	-0.4708724	0.17612765	-2.6734721	0.00750705	0.06327488
Sf3b1	38811.2013	-0.4710078	0.16528223	-2.8497185	0.00437579	0.04245039
E130008D07f	15.6234092	-0.4712668	0.43060869	-1.09442	0.2737708	0.56667239
Ankrd24	903.803558	-0.4716581	0.18605967	-2.5349829	0.01124528	0.08375258
Snord95	57.9017048	-0.4717594	0.37760969	-1.2493307	0.21154415	0.49812885
Tnfrsf17	4.37897588	-0.4719235	0.37945012	-1.2437038	0.21360861	NA
Enah	23719.5364	-0.4720097	0.17427992	-2.7083424	0.00676202	0.05862142
Dmtf1	6304.29678	-0.4720539	0.17468599	-2.7022998	0.00688616	0.05929497
Atad2	14756.1855	-0.4721037	0.20679161	-2.2829926	0.02243081	0.13303641
Rpl32	70545.6651	-0.4721976	0.20825377	-2.2674147	0.02336491	0.13649424
Klhl33	2.70206254	-0.4722309	0.34199932	-1.380795	0.16734201	NA

Dennd4a	1340.5267	-0.472233	0.22065422	-2.1401493	0.03234271	0.16754211
Glod5	307.36707	-0.472306	0.40205372	-1.1747336	0.24010131	0.53226165
Eif2a	15267.4831	-0.4723273	0.15250503	-3.097126	0.00195407	0.02402191
Fancl	3422.87836	-0.4723283	0.23704514	-1.9925669	0.04630889	0.20916339
Nubp1	3972.19954	-0.4724232	0.23569008	-2.0044257	0.04502448	0.20563163
St8sia1	1662.99753	-0.4725959	0.42965103	-1.0999528	0.27135269	0.56490036
Nup62	13995.1009	-0.4726827	0.19753021	-2.3929642	0.01671287	0.10943237
Pacs2	2330.49245	-0.4729341	0.18922548	-2.4993153	0.01244335	0.08933823
Fam129b	4471.44176	-0.4730676	0.22084399	-2.1420894	0.03218629	0.16695431
Kbtbd8	3869.9309	-0.4732347	0.19304203	-2.4514593	0.01422783	0.09803143
Sstr2	256.352476	-0.4732784	0.40078785	-1.1808701	0.23765431	0.52993576
Slc35f3	25.3565741	-0.4733069	0.40098234	-1.1803685	0.23785367	0.52993576
Smc2	18848.7521	-0.4737231	0.1901321	-2.4915472	0.01271881	0.09048042
Nfyb	7280.57927	-0.474111	0.21392421	-2.2162568	0.02667392	0.1479865
Cep68	3312.81341	-0.4741373	0.16374053	-2.8956622	0.00378359	0.03835929
Rit2	13.1803828	-0.4744839	0.41502571	-1.143264	0.25292901	0.54598821
Smc1b	2655.01202	-0.4745857	0.35608807	-1.3327762	0.18260527	0.46234038
Gm21283	1212.50592	-0.4746998	0.28375657	-1.672912	0.09434462	0.32012942
Eif3a	55699.4796	-0.4752043	0.16851393	-2.8199704	0.00480281	0.04562521
Knstrn	3425.42905	-0.4753901	0.16320732	-2.9127988	0.00358205	0.03704217
Hrh2	17.3393021	-0.4755791	0.4322565	-1.1002244	0.27123437	0.56486131
Asb16	104.257487	-0.4756949	0.28162736	-1.6890933	0.09120154	0.31447343
Tmem87b	2260.78043	-0.4757196	0.18823921	-2.5272076	0.01149735	0.08475907
Serpinb9b	447.629327	-0.4757709	0.40816068	-1.165646	0.24375759	0.53593585
Scarb2	3184.22588	-0.4758956	0.24429869	-1.9480071	0.05141411	0.22314843
Kpna2	14526.9411	-0.4759053	0.14523348	-3.2768287	0.0010498	0.01513016
Snord16a	146.155737	-0.475991	0.32127579	-1.4815651	0.13845606	0.39777094
1810007D17I	5.86660453	-0.4764273	0.32741642	-1.4551113	0.14563846	NA
Nf2	11034.9986	-0.476507	0.23460982	-2.0310616	0.04224875	0.19756905
4930447K03F	10.6553776	-0.4770294	0.42553924	-1.1209998	0.26228793	0.55478597
Prim1	7580.92789	-0.4771564	0.15698601	-3.0394836	0.00236984	0.02760554
Dkc1	26048.4881	-0.4771959	0.14890374	-3.2047273	0.00135191	0.01817068
Bend6	26.6501606	-0.4773559	0.42228007	-1.1304249	0.25829723	0.55088501
Mrpl47	3715.53928	-0.4774117	0.18083005	-2.6401126	0.00828785	0.06826501
Clic3	10.4034193	-0.4774164	0.40845795	-1.1688263	0.24247361	0.53472044
Nars	33127.0106	-0.4775179	0.14852827	-3.2149966	0.00130446	0.01772972
Gm10033	427.301271	-0.4777301	0.2885258	-1.6557621	0.09777001	0.32672602
Reck	679.602238	-0.4779266	0.25956772	-1.8412406	0.0655863	0.25939598
Gse1	4023.97206	-0.4779846	0.25011042	-1.9110943	0.05599247	0.23562434
Nsl1	2297.43325	-0.4780027	0.15967282	-2.9936386	0.00275672	0.03075308
Asic2	4.56554116	-0.4784638	0.37825489	-1.2649243	0.20589848	NA

Adam19	10654.7948	-0.4790838	0.31222059	-1.53444	0.12492143	0.37772763
Inpp5j	156.567158	-0.4792901	0.39748005	-1.2058217	0.22788624	0.51833537
Atl3	7045.05608	-0.4793256	0.20679932	-2.3178299	0.02045857	0.12575418
Rad54b	3869.80912	-0.4793707	0.18392189	-2.606382	0.00915044	0.0727497
Prc1	14056.4675	-0.47955	0.20000849	-2.3976484	0.0165007	0.10847658
Nsmce4a	12501.842	-0.4797604	0.17513554	-2.7393663	0.00615577	0.05460836
Mertk	158.744916	-0.4798201	0.35190257	-1.3635027	0.17272414	0.44977111
Crebrf	2033.8192	-0.4799456	0.2840912	-1.6894067	0.09114152	0.31433615
D430019H16	118.234407	-0.4801532	0.38758312	-1.2388394	0.21540498	0.50266549
Gnaz	108.027624	-0.4805256	0.36217809	-1.326766	0.18458609	0.46455672
Senp8	1111.66037	-0.4805876	0.20808926	-2.309526	0.02091441	0.12769534
Slc14a1	6.53637965	-0.4807164	0.39572831	-1.2147638	0.2244562	0.51368924
Arl4a	2130.3828	-0.480743	0.2901586	-1.6568284	0.09755417	0.32646114
Ccdc60	21.7396477	-0.4809965	0.42712878	-1.126116	0.26011644	0.55222808
Optn	553.064925	-0.4812396	0.30985304	-1.5531221	0.12039396	0.36920655
Kctd2	1353.83023	-0.4813388	0.24521438	-1.9629305	0.04965425	0.21880795
Thap2	233.929639	-0.4814006	0.33509498	-1.4366093	0.15082903	0.41765353
Pou6f2	4.23907671	-0.4814788	0.32727607	-1.4711703	0.14124506	NA
Gstcd	1801.36762	-0.4815483	0.19201668	-2.5078463	0.01214695	0.08814616
Ccnb1ip1	637.868235	-0.4815616	0.40502076	-1.1889801	NA	NA
Akr1b7	21.9986701	-0.4819083	0.43085612	-1.1184901	0.26335773	0.55541671
Mroh7	68.2047963	-0.4821218	0.41825575	-1.1526962	0.24903512	0.54240128
Rangrf	1113.54549	-0.4821413	0.21888478	-2.2027174	0.02761467	0.15152991
Crbn	3541.70621	-0.4821487	0.16072165	-2.999899	0.00270069	0.03028006
Map2k7	4375.0887	-0.4824368	0.23437157	-2.0584271	0.03954916	0.18991988
Atl2	5978.72072	-0.4827656	0.16459602	-2.9330335	0.00335668	0.03536564
Hoxc4	310.018637	-0.4828513	0.25409022	-1.9003144	0.05739187	0.23881336
9330102E08F	105.939327	-0.4828846	0.38610375	-1.2506602	0.21105848	0.49780377
Pcolce	7045.19535	-0.4830273	0.20987666	-2.3014817	0.02136442	0.12925061
Grm2	93.9789178	-0.4832449	0.42544534	-1.1358567	0.25601656	0.54884387
Mvk	1548.82826	-0.4832587	0.22008743	-2.1957579	0.02810928	0.15332423
Ap1m1	4014.08697	-0.4833564	0.21351455	-2.26381	0.0235858	0.13747482
Exoc4	9052.73136	-0.4833925	0.20967847	-2.305399	0.02114423	0.12859479
Wdr24	1508.03179	-0.4834404	0.18639925	-2.5935749	0.00949839	0.07456304
Lysmd4	535.051484	-0.4834689	0.23634018	-2.0456482	0.04079099	0.1936198
Fpgt	1366.27814	-0.4835833	0.20870627	-2.317052	0.0205009	0.12577215
Tmed6	41.3512926	-0.483603	0.4311272	-1.1217177	0.26198251	0.55435932
Tmem63c	122.21905	-0.4836354	0.34235545	-1.4126703	0.15775268	0.42767192
Cldn3	245.522289	-0.484022	0.30282962	-1.5983311	0.10996932	0.35043706
Ppm1k	660.827759	-0.4842995	0.23689178	-2.0443916	0.04091488	0.19380667
Zfp12	1303.09384	-0.4843005	0.2046664	-2.3662924	0.01796725	0.11512514

Sun1	12929.9302	-0.4843769	0.16830101	-2.8780393	0.00400155	0.03991543
1700016D06l	230.485627	-0.4844228	0.3676374	-1.3176645	0.18761597	0.46899469
Lrrc45	1201.89065	-0.4845089	0.25608156	-1.8920101	0.05848964	0.24189476
Gnat1	38.5025192	-0.4847992	0.42167317	-1.1497036	0.25026598	0.54397659
Ube2c	12482.5394	-0.4850619	0.17808391	-2.7237828	0.00645389	0.05647975
Hist1h3g	11.2221411	-0.4852411	0.43098628	-1.1258852	0.26021411	0.55228465
Zfp266	4192.90206	-0.4853806	0.1598671	-3.0361504	0.0023962	0.02786066
Nme4	3556.53705	-0.4853876	0.15677233	-3.0961307	0.00196064	0.02408365
Cdc25c	2013.43559	-0.4855486	0.17504526	-2.7738461	0.00553979	0.05094574
Mlph	53.506788	-0.4858839	0.43203592	-1.1246377	0.26074257	0.55280269
Ramp3	30.309973	-0.4860534	0.42198299	-1.1518317	0.24939023	0.54295595
BC002163	1147.14408	-0.4862183	0.27785193	-1.7499189	0.08013231	0.29197223
Gpx2-ps1	14.3684277	-0.4862391	0.4266827	-1.13958	0.25446133	0.5476236
Mgat4a	895.344386	-0.4865048	0.26206253	-1.8564454	0.0633901	0.25452606
Lamp2	11648.2239	-0.4865283	0.23878671	-2.0375017	0.04159979	0.19562866
Tmem242	2110.78295	-0.486606	0.22237872	-2.1881858	0.02865607	0.15527195
Lman1	12880.0913	-0.4866892	0.1699287	-2.8640786	0.00418224	0.0410076
Fam69c	5.89518285	-0.4868594	0.35030865	-1.3898013	0.16458923	NA
Lrig1	2422.98361	-0.4871263	0.18434538	-2.6424656	0.00823048	0.0679215
Stoml2	11015.4105	-0.4876375	0.18717986	-2.6051815	0.00918256	0.07289331
Rad51b	594.178493	-0.4877334	0.25526539	-1.9106916	0.05604422	0.2357435
Snora81	380.700891	-0.4879258	0.32108915	-1.519596	0.12861254	0.38300529
Taok1	7303.74911	-0.487954	0.2568192	-1.8999904	0.05743437	0.23881336
Slc35a3	1952.52344	-0.4880227	0.24702405	-1.9756079	0.04819921	0.21483115
Cnr2	4.08040254	-0.4884897	0.34636766	-1.4103213	0.15844483	NA
Tmem209	7251.24318	-0.4886049	0.18124007	-2.6958989	0.0070199	0.06014678
Cyp1a1	80.1415821	-0.4886091	0.43128547	-1.1329135	0.25725057	0.55006377
Rps18	50780.7618	-0.4886127	0.22130273	-2.2078927	0.02725175	0.15012116
Abca2	1620.24774	-0.4886302	0.2120687	-2.304113	0.0212163	0.12888076
Flt1	31.174759	-0.4888456	0.43116097	-1.133789	0.25688308	0.54993313
Herpud1	1523.94171	-0.4891283	0.18249648	-2.6802064	0.00735768	0.06221818
Lars	24343.1555	-0.4893894	0.17060077	-2.8686237	0.00412262	0.04060219
Esf1	7770.25334	-0.4898677	0.18741185	-2.6138564	0.00895266	0.07161671
Fam210a	3596.63694	-0.4900401	0.19130024	-2.5616283	0.01041827	0.07965319
Prss45	47.3666283	-0.4900475	0.43031243	-1.1388179	0.25477912	0.54792838
Cep55	11369.9024	-0.4901318	0.16108638	-3.0426644	0.00234494	0.02735642
Trmt11	1980.49128	-0.4906684	0.18960885	-2.5877926	0.00965931	0.07552918
Ccl25	1616.16389	-0.4909716	0.43158677	-1.1375965	NA	NA
Igf1	6.19391884	-0.4912003	0.38282168	-1.2831047	0.19945541	0.48250548
Blvrb	3065.46499	-0.4914052	0.27567597	-1.7825464	0.07466017	0.27936486
Aasdh	1019.78957	-0.4915281	0.21549449	-2.280931	0.02255253	0.13360548

D2Wsu81e	3791.54724	-0.4915695	0.23069756	-2.1307963	0.03310592	0.16985491
Pla2g3	22.0796721	-0.4915767	0.42992405	-1.1434035	0.25287109	0.54598821
Nek1	2060.89113	-0.4917062	0.23090589	-2.1294658	0.03321574	0.17024982
Map3k8	260.159033	-0.4917111	0.32054908	-1.533965	0.12503826	0.3779339
Eif3m	15554.1425	-0.4918218	0.17141568	-2.8691765	0.00411542	0.04055697
Prkra	1092.50779	-0.4918948	0.25901671	-1.8990852	0.05755328	0.23924379
Sgcb	266.046686	-0.4920313	0.25881585	-1.9010866	0.05729067	0.23872648
Pole2	3665.98764	-0.4922447	0.16786736	-2.9323432	0.00336415	0.03539638
Tnfrsf1b	1552.4228	-0.4925425	0.22154787	-2.2231876	0.02620315	0.14641014
Sestd1	1543.82532	-0.4927346	0.2578372	-1.9110299	0.05600074	0.23562434
Miip	738.113907	-0.4928097	0.33818767	-1.4572076	0.14505907	0.40807048
Cd2ap	9947.00933	-0.492842	0.18668746	-2.6399311	0.00829229	0.06826543
Flii	6505.5491	-0.4929096	0.25687049	-1.9189031	0.0549966	0.23284838
Chrac1	1133.80363	-0.4932195	0.18692532	-2.6385911	0.00832513	0.0682911
Ly6c2	15.8575474	-0.4935917	0.429728	-1.1486143	0.25071507	0.54423089
Gpat2	2819.55407	-0.4935936	0.28467822	-1.733865	0.08294204	0.29843399
Cenpn	2910.58446	-0.493717	0.18863453	-2.6173206	0.00886231	0.07126008
Nono	21091.885	-0.4941307	0.15343953	-3.2203613	0.00128029	0.01752184
Clhc1	1939.44975	-0.4942926	0.194783	-2.5376578	0.01115971	0.08323481
Msi2	5570.47116	-0.4942979	0.24098247	-2.0511779	0.04024963	0.19194171
Dok7	8.62757293	-0.4943384	0.41577119	-1.1889674	0.2344525	0.5263048
Lphn1	6018.18796	-0.4943663	0.25101998	-1.96943	0.04890373	0.21635902
Gm2848	7.18349524	-0.4944353	0.41438196	-1.1931873	0.23279601	0.52452319
Rpl7	109130.883	-0.4944517	0.18901492	-2.6159404	0.00889821	0.07140804
Sp7	8.76813145	-0.4944548	0.42960663	-1.1509479	0.24975367	0.54328149
Gtpbp4	17157.8375	-0.4946385	0.15735255	-3.1435049	0.00166938	0.02117493
Rbp4	95.9490911	-0.4948187	0.39777896	-1.243954	0.21351648	0.50028431
Hfe	29.2194084	-0.4948654	0.42435303	-1.1661644	0.24354798	0.53577799
Zbtb3	473.804882	-0.494924	0.22674643	-2.1827203	0.02905642	0.1562976
Zfp180	2466.14396	-0.4952424	0.17810473	-2.7806245	0.00542545	0.05010161
Smpdl3b	914.277326	-0.4953128	0.38415364	-1.2893613	0.19727252	0.48031705
Thns12	149.760818	-0.495402	0.39676375	-1.248607	0.21180884	0.49838694
Dopey2	2127.94025	-0.4954405	0.2230819	-2.2208906	0.02635837	0.14675943
8-Sep	2769.27369	-0.4955299	0.24487078	-2.0236385	0.04300736	0.19994243
Misp	352.179988	-0.4957939	0.40973368	-1.2100395	NA	NA
Smc5	8323.92135	-0.49585	0.16100036	-3.0798067	0.00207135	0.02500897
Phka1	1803.81272	-0.496081	0.22210009	-2.2335921	0.02550993	0.14431011
Cyp4f18	7.27015553	-0.4961449	0.41619787	-1.1920889	0.23322637	0.52480152
Kcnab3	258.888734	-0.4961866	0.2724556	-1.821165	0.06858179	0.26629597
Tiam1	2481.73124	-0.4962587	0.31002501	-1.6007053	0.10944221	0.34954524
Ptchd2	17.1659398	-0.4964689	0.42425278	-1.1702195	0.24191267	0.53429681

Draxin	127.719079	-0.4965044	0.37268431	-1.3322384	0.18278185	0.46271211
Nudcd2	13316.8256	-0.4967576	0.14718104	-3.3751467	0.00073776	0.01175508
Tex2	5849.35651	-0.4968468	0.19921435	-2.4940314	0.01263014	0.09022107
Morc3	15280.7971	-0.4968752	0.15870729	-3.1307647	0.00174352	0.02195421
Usp53	1131.99973	-0.4969784	0.25865457	-1.921398	0.05468154	0.23189329
Hmgcr	21373.8206	-0.4975695	0.20890258	-2.3818254	0.01722706	0.11166741
Cnot1	43102.7285	-0.4976956	0.25357517	-1.9627142	0.04967939	0.21885671
Ubxn2b	1197.77428	-0.4982947	0.18537827	-2.6879885	0.00718839	0.06118588
Pglyrp3	5.37959991	-0.4983245	0.34935852	-1.4263985	0.15375335	NA
2210015D19I	615.159854	-0.4983531	0.21902869	-2.2752867	0.02288874	0.13501674
2310067B10F	2743.33238	-0.4984015	0.24948341	-1.9977342	0.04574548	0.20779516
Slc45a2	10.5920926	-0.4986273	0.39212832	-1.271592	NA	NA
Mpzl3	180.770351	-0.4987802	0.31168041	-1.6002936	0.10953346	0.34969305
Thg1l	2110.41608	-0.4991394	0.29343147	-1.7010424	0.08893502	0.31030481
Slc6a15	860.612824	-0.4995275	0.31393164	-1.5911985	0.11156492	0.35327755
Necab1	107.68675	-0.4997817	0.42995923	-1.1623933	0.24507575	0.537854
Gm2373	23512.7078	-0.5002069	0.20833847	-2.400934	0.01635329	0.10775846
Vbp1	12027.2373	-0.50035	0.20180977	-2.479315	0.0131635	0.09262695
Apln	187.68224	-0.5004567	0.41654162	-1.2014566	0.22957412	0.52057555
Epha7	256.072193	-0.5005584	0.27751685	-1.8037044	0.07127766	0.27194282
Lss	3916.79662	-0.5007006	0.19457264	-2.5733353	0.01007236	0.07788923
Tle2	62.7340632	-0.5007984	0.32543298	-1.5388681	0.12383651	0.37568579
Prpsap2	3899.15693	-0.5008251	0.17086545	-2.9311081	0.00337755	0.0354894
Pigyl	1604.67319	-0.5009463	0.23568221	-2.125516	0.03354358	0.17142168
Zfp943	544.251403	-0.5010821	0.23640217	-2.1196172	0.03403834	0.17309688
Nkx1-2	347.983885	-0.5011519	0.32532538	-1.5404636	0.12344739	0.37516716
Pdk2	311.858451	-0.5011724	0.25930403	-1.93276	0.05326578	0.22884208
Tmem200a	21.809616	-0.501663	0.43103225	-1.1638643	0.24447901	0.53699054
Lmod1	73.1983895	-0.5020565	0.39609495	-1.2675155	0.20497103	0.49027741
Stip1	35494.133	-0.5021147	0.19176631	-2.6183678	0.00883515	0.07111565
Arv1	557.421381	-0.5021896	0.21912284	-2.2918177	0.02191617	0.13108396
Arhgef39	1202.34183	-0.5022216	0.19579767	-2.5650029	0.01031749	0.0790381
Zfp433	56.6349291	-0.5023123	0.41283312	-1.2167441	0.2237016	0.51294362
Zfp541	22.1652855	-0.5023874	0.41947874	-1.197647	0.23105447	0.5227889
Gcm2	40.9262873	-0.5025384	0.42995959	-1.1688038	0.24248271	0.53472044
Zmat4	480.040186	-0.5026287	0.35231892	-1.4266298	0.15368662	0.42148552
Gm10432	13.4642643	-0.5027314	0.429833	-1.169597	0.24216319	0.53454646
Naca	41043.2336	-0.5027412	0.18779774	-2.6770354	0.00742768	0.062776
Ipo5	56302.4538	-0.5027624	0.18259642	-2.7534077	0.00589784	0.05307714
Etl4	8678.80251	-0.5028342	0.24122746	-2.0844817	0.03711637	0.18265717
Snord88a	20.4073938	-0.5032633	0.41095606	-1.2246159	0.22071998	0.50898556

Ces2e	9.62156328	-0.5036421	0.40525794	-1.2427692	0.2139529	0.50085527
Fbxo48	168.481826	-0.5036915	0.30683624	-1.6415646	0.10068027	0.33269844
Neurog1	8.05929258	-0.5037135	0.41674122	-1.2086962	0.2267796	0.51702822
Med11	1402.50046	-0.5039009	0.24294869	-2.0741043	0.03806962	0.18588017
Cep83os	55.3196354	-0.5040575	0.40986338	-1.2298183	NA	NA
Slc25a27	108.617258	-0.5042206	0.3213342	-1.569147	0.1166137	0.36254692
Mex3d	1229.63465	-0.504422	0.22512384	-2.2406424	0.02504925	0.14269526
Gpha2	31.3038271	-0.5044401	0.42566962	-1.1850507	0.23599738	0.52775314
Eri1	5952.08136	-0.5045747	0.21716407	-2.3234723	0.02015379	0.12466652
Fam151a	33.0287041	-0.5045997	0.42117318	-1.1980812	0.23088541	0.52255843
Selo	220.457651	-0.5047855	0.26052143	-1.9375969	0.05267242	0.22689995
Uqcrc2	17206.3641	-0.5048217	0.15594841	-3.2371067	0.00120748	0.01676568
Usp20	721.94233	-0.5048332	0.25544248	-1.9763088	0.04811981	0.21460027
Ccdc129	4.80056318	-0.5049587	0.39516399	-1.2778459	0.20130378	NA
Sh2d4a	497.104426	-0.5052114	0.32277688	-1.5652033	0.11753525	0.3640292
Nin	1079.18153	-0.5052285	0.3316563	-1.5233496	0.12767127	0.38169396
Camk1d	5044.14246	-0.5052326	0.21973345	-2.2992974	0.02148806	0.12956991
Sgol1	6780.94827	-0.5056063	0.14133474	-3.5773673	0.00034707	0.00657408
Cbx1	9075.36215	-0.5061834	0.16701512	-3.0307641	0.00243936	0.0281831
Rmi2	509.351384	-0.5062402	0.23649809	-2.1405677	0.03230892	0.16747866
Racgap1	8281.05316	-0.5063267	0.18754916	-2.6997011	0.00694018	0.05966099
Nuf2	3513.99232	-0.5063591	0.16448281	-3.0784926	0.00208051	0.02504177
Kit	20460.5874	-0.5067172	0.21134596	-2.3975723	0.01650412	0.10847658
Prr19	64.5943146	-0.5071106	0.35840198	-1.4149214	0.15709155	0.42655183
Tars	23089.2498	-0.507615	0.14917231	-3.4028772	0.0006668	0.01085806
Rpl6	63529.6804	-0.5078291	0.18265705	-2.7802329	0.00543199	0.05012105
Ndc80	4646.86099	-0.5080662	0.17442776	-2.91276	0.0035825	0.03704217
Tcp10c	4.97189368	-0.5081878	0.30944243	-1.6422694	0.10053419	NA
Fam217a	12.2714003	-0.5083554	0.43060587	-1.1805585	0.23777816	0.52993576
Fbxl3	4529.12056	-0.5084052	0.17675636	-2.8763049	0.00402361	0.04000712
Tmem151b	220.358829	-0.508528	0.28909937	-1.7590076	0.07857622	0.2888991
Insl6	70.6198535	-0.5085515	0.32611662	-1.559416	0.11889795	0.36678873
Parm1	179.832888	-0.5086398	0.3535598	-1.4386246	NA	NA
Dpy19l4	1013.10988	-0.5086465	0.28129414	-1.8082373	0.07056958	0.27030236
Hsd17b10	4567.53306	-0.5087807	0.22738032	-2.2375759	0.02524873	0.14341894
Cspp1	3265.75195	-0.5091262	0.19470687	-2.614834	0.00892708	0.07148561
Zfp87	1175.98333	-0.509138	0.18570271	-2.7416829	0.00611253	0.05441098
Sec31b	150.773774	-0.5095042	0.34461225	-1.4784853	0.13927792	0.39902765
A430078G23	31.0605563	-0.5095792	0.43028403	-1.1842857	0.2363	0.52810283
Setx	15445.3625	-0.5097183	0.28364475	-1.7970306	0.07233076	0.27429691
Syne1	331.432632	-0.5102185	0.29731898	-1.7160645	0.08615024	0.30489812

Spats2l	1057.87169	-0.5103046	0.28178742	-1.8109561	0.07014765	0.26968196
Gcnt4	474.064417	-0.5105893	0.26341474	-1.9383476	0.05258083	0.22676332
Ccnb2	9062.01278	-0.5107709	0.15493064	-3.2967714	0.00097803	0.01432143
Cwc27	3682.56063	-0.5107738	0.23350792	-2.1873941	0.02871377	0.15542836
Arl10	394.187124	-0.5107806	0.21692162	-2.3546779	0.01853877	0.11733675
Rab3d	450.038472	-0.5108032	0.25399838	-2.011049	0.04432028	0.20355129
Ptger4	39.6465362	-0.5110968	0.38225883	-1.3370438	0.18120835	0.45992672
Plac8	32.7218778	-0.5110977	0.42245296	-1.2098333	NA	NA
Ap3s1	1258.3284	-0.5113452	0.18624663	-2.7455273	0.00604137	0.05405604
Gm16386	475.388201	-0.511413	0.20700173	-2.4705736	0.01348966	0.09453702
Rsu1	2810.5443	-0.5115599	0.2147497	-2.3821215	0.01721322	0.11162749
Acbd7	157.370551	-0.5116986	0.3461315	-1.4783358	0.13931791	0.39906664
Acer1	11.9015909	-0.5117106	0.43222057	-1.1839109	0.23644835	0.52810283
Khynyn	1329.97482	-0.5125627	0.16882635	-3.0360348	0.00239712	0.02786066
Ccdc113	110.502455	-0.5126347	0.33347488	-1.5372512	0.12423181	0.37637423
Pde4b	6.44843202	-0.5129221	0.40508196	-1.266218	0.20543505	0.49038835
Rsbnl1	3141.1226	-0.5130115	0.21275863	-2.4112369	0.01589852	0.10570239
Adamts17	22.3652796	-0.5132742	0.42250733	-1.2148291	0.22443128	0.51368924
Mmab	1131.79964	-0.5133003	0.22097382	-2.3229008	0.02018448	0.12475195
Rapgef4	12.8606155	-0.5133833	0.41836237	-1.2271259	0.21977527	0.50829485
Spg11	2912.48134	-0.5134255	0.18428088	-2.7861028	0.00533459	0.04949778
Dennd1a	1277.30859	-0.5135573	0.17403396	-2.9509028	0.00316847	0.03402818
Cyb5	4370.44555	-0.5135876	0.1969039	-2.6083163	0.00909888	0.07252523
Alkbh8	1187.22438	-0.5136012	0.25758139	-1.9939374	0.0461589	0.20891066
Adprm	1423.08287	-0.5136282	0.22477731	-2.2850537	0.02230968	0.13256611
Snord88c	20.5062259	-0.5136375	0.41630868	-1.2337899	0.2172812	0.50492228
G6b	32.3530512	-0.513905	0.3989588	-1.2881156	0.19770573	0.48093412
Otx2os1	11.3868638	-0.5139964	0.41709769	-1.2323167	0.21783082	0.50574605
Trnt1	5617.01467	-0.5142727	0.18741925	-2.7439695	0.00607012	0.05418852
Mtmr1	837.283581	-0.5144194	0.21046196	-2.4442392	0.0145158	0.0993907
Serbp1	85462.7077	-0.5144466	0.14734049	-3.4915496	0.00048023	0.00839103
Phlpp1	1640.76538	-0.5146061	0.28203063	-1.8246461	0.06805445	0.2648758
Rai14	9878.85911	-0.5149158	0.23646445	-2.1775614	0.02943871	0.15726601
Triqk	66.869587	-0.51531	0.33859238	-1.5219185	0.12802951	0.38211884
BC005561	768.329344	-0.5154092	0.30386442	-1.6961814	0.08985152	0.31210209
Crb3	410.187295	-0.5154768	0.36519295	-1.411519	0.15809165	0.42823257
Lgr4	3732.42907	-0.5155553	0.29459045	-1.7500747	0.08010542	0.29194269
Scai	2030.79441	-0.5155735	0.21592025	-2.387796	0.01694975	0.11024069
H2afy	16493.1861	-0.5155933	0.19841124	-2.5986093	0.00936022	0.07382763
Plk1	7614.70165	-0.5156499	0.21384697	-2.4113034	0.01589562	0.10570239
Phf19	270.980901	-0.5157024	0.31713999	-1.6261034	0.10392765	0.33930559

Rpl17	66584.4838	-0.5159158	0.21989759	-2.346164	0.01896776	0.11917884
Lctl	85.0895768	-0.5161514	0.34038251	-1.5163865	0.12942166	0.38455938
Dicer1	6056.9686	-0.5161812	0.22252732	-2.3196307	0.02036087	0.12539874
Cd40	62.3516434	-0.5166031	0.37977645	-1.3602822	0.17374064	0.45100512
Klhl28	622.06654	-0.5166053	0.26087418	-1.9802852	0.04767149	0.21315103
Tff2	13.2131972	-0.5174787	0.43182738	-1.1983462	0.23078225	0.52247704
2700099C18f	1711.114	-0.5174788	0.22777701	-2.2718657	0.02309462	0.1357311
Rps6ka6	6238.7917	-0.5175422	0.2105012	-2.4586188	0.01394726	0.09656895
Klc2	1297.85513	-0.5176223	0.2010146	-2.5750484	0.01002261	0.0776203
Shprh	3602.93386	-0.5178515	0.21221265	-2.4402481	0.01467718	0.10015129
Xrn1	2666.27464	-0.5180287	0.28849728	-1.7956104	0.0725565	0.27466556
Sp8	109.144788	-0.5180365	0.37004485	-1.3999289	0.1615346	0.43255956
Fam199x	1513.17168	-0.518174	0.18409452	-2.8147168	0.00488202	0.04606817
Ttc3	9165.94602	-0.5182992	0.20234766	-2.5614292	0.01042425	0.07965969
Sugp2	2937.06482	-0.519252	0.17869698	-2.9057682	0.00366353	0.03760238
Adcyap1r1	55.0317688	-0.5192687	0.43135818	-1.2037993	0.22866715	0.51942782
Gm8615	196.760624	-0.5204854	0.37766999	-1.3781486	0.16815741	0.44308872
Gadd45gip1	3565.43727	-0.5205511	0.18448508	-2.8216435	0.00477783	0.04549906
Uaca	4205.07898	-0.520959	0.18738771	-2.7801131	0.005434	0.05012105
Rsb1	3128.43775	-0.5209709	0.2081037	-2.5034197	0.01229996	0.08867716
Acs1	10841.0988	-0.5211323	0.16878989	-3.0874615	0.00201874	0.02460728
Trip6	1107.57152	-0.5212316	0.25297808	-2.0603823	0.039362	0.18954651
Eif4enif1	6598.45053	-0.5212998	0.22716502	-2.2948068	0.0217442	0.13050717
Pdha1	27128.3908	-0.5217905	0.15249699	-3.4216443	0.00062244	0.01030832
Btbd11	1284.93347	-0.5223018	0.23953685	-2.1804654	0.02922298	0.15675976
AI987944	1040.46594	-0.5225381	0.18943153	-2.7584537	0.00580755	0.05259946
Matr3	39028.2568	-0.5229807	0.16182425	-3.2317819	0.00123021	0.01697938
Dcxr	1146.41104	-0.5231058	0.26783794	-1.9530684	0.05081149	0.22164643
Igfals	387.405208	-0.5231751	0.27128357	-1.9285176	0.05379077	0.22993412
Igsf3	3824.37488	-0.5231866	0.22297673	-2.3463732	0.01895711	0.11916009
2310069B03f	54.0176949	-0.5234326	0.38027733	-1.3764495	0.16868251	0.44348648
Nqo1	5984.04013	-0.5234521	0.24030149	-2.1783141	0.02938266	0.15717603
Mad2l1	8219.59607	-0.5235908	0.15863295	-3.3006436	0.00096463	0.01416526
Hexb	14469.6598	-0.5238837	0.23441586	-2.2348475	0.02542736	0.14394646
Eef1e1	7559.58264	-0.5238837	0.17884032	-2.9293378	0.00339685	0.03564401
Hmgb2	18849.9148	-0.5239242	0.18693654	-2.8026848	0.00506792	0.04743073
3-Sep	1325.19862	-0.5243254	0.3742588	-1.4009701	0.16122301	0.43227306
Dcp1b	242.399433	-0.5244597	0.24046767	-2.1809989	0.0291835	0.15665607
Zfp953	1130.16026	-0.5246555	0.216531	-2.4230039	0.01539276	0.1033293
Rbpms	6360.80704	-0.5248304	0.20283237	-2.5875082	0.00966729	0.07552918
Spag7	5216.45871	-0.5250035	0.20003662	-2.6245371	0.00867668	0.07024004

Nrf1	3576.4472	-0.5251925	0.15884932	-3.3062306	0.0009456	0.01398576
Hmgb1	15145.3297	-0.5252275	0.25042083	-2.0973793	0.03596001	0.17992732
Zbed6	4136.08619	-0.5252293	0.35009804	-1.500235	0.13355354	0.39061334
Anxa2	1111.6755	-0.5258321	0.39003273	-1.3481743	0.17760234	0.45508222
5133400J02R	186.783173	-0.5258558	0.24602713	-2.1373894	0.03256633	0.16830808
Cenpu	2403.29912	-0.5258685	0.20015546	-2.6273004	0.00860653	0.06989043
Mthfd1l	9115.98007	-0.5260397	0.16034871	-3.2805985	0.00103587	0.01497103
E130307A14f	80.1619645	-0.5261831	0.33685667	-1.5620384	0.11827893	0.36545911
Ankrd36	40.8345525	-0.5263188	0.39684768	-1.326249	0.18475725	0.46476221
Pgk1	16659.152	-0.5263971	0.29113671	-1.8080752	0.0705948	0.27033013
Rmnd5b	3074.38043	-0.5265652	0.17988514	-2.9272303	0.00341995	0.03586225
Diap2	2743.31955	-0.5265827	0.26607411	-1.979083	0.04780666	0.2135883
Afap1	1297.33261	-0.5266678	0.21200515	-2.4842217	0.0129835	0.09190093
Hist1h3b	3.47307112	-0.5272791	0.35967019	-1.4660073	0.14264629	NA
Rad23a	5126.1722	-0.5277729	0.17730919	-2.9765681	0.00291494	0.03213457
Ccdc57	385.737684	-0.5280685	0.26658218	-1.9808845	0.04760423	0.21296913
Kif4	5240.3849	-0.528076	0.17500173	-3.0175472	0.00254829	0.02893785
Mycn	6490.17043	-0.5281735	0.21694458	-2.4346009	0.01490822	0.10106267
Cadm3	21.9267793	-0.528195	0.43125398	-1.2247886	0.22065488	0.50895937
Pclo	55.5858153	-0.5284255	0.42513104	-1.2429709	0.21387857	0.50083204
Cpne3	6224.50811	-0.5284546	0.20655143	-2.5584649	0.01051354	0.07998991
Cdk5rap3	5975.90279	-0.5285148	0.22967677	-2.3011242	0.02138461	0.12925061
Mir3101	34.7409643	-0.5286471	0.38095042	-1.3877058	0.16522665	0.43861233
Padi2	1690.97931	-0.5286513	0.43106041	-1.2263974	0.22004918	0.50864133
Gbx1	20.4589516	-0.5289225	0.41616699	-1.2709382	0.20375063	0.48844243
Sh2d5	307.949193	-0.5291068	0.32438121	-1.6311264	0.10286365	0.33711962
Ndrp4	818.386226	-0.5291648	0.20196709	-2.6200546	0.00879157	0.07083818
Slit3	189.176381	-0.5294139	0.40877061	-1.295137	0.19527297	0.47806832
Osbp2	25.1721621	-0.5294606	0.41626318	-1.2719372	0.20339542	0.48796701
Xpo4	4313.04543	-0.5295108	0.28616298	-1.850382	0.06425851	0.2566874
Snx10	6564.038	-0.5295681	0.17054755	-3.1051055	0.00190211	0.02360713
Rpl23	69786.7786	-0.5297278	0.24627726	-2.1509406	0.03148089	0.16477931
Dnajc7	26036.9596	-0.5298011	0.20298123	-2.6100989	0.0090516	0.07222243
Zfp534	3108.74506	-0.5300336	0.32101873	-1.6510988	0.09871841	0.32873019
Trappc12	2470.55164	-0.5304755	0.25699766	-2.0641257	0.0390058	0.18837864
Adhfe1	463.370695	-0.5307974	0.34885333	-1.5215489	0.12812215	0.38211884
Sh2b2	113.11885	-0.530851	0.28845255	-1.8403408	0.06571821	0.25965039
Gtf3c3	4166.80154	-0.5308982	0.18921266	-2.8058282	0.00501874	0.04712355
Sema6b	253.287837	-0.5311357	0.28866334	-1.8399831	0.06577072	0.25979183
Zfp758	752.818	-0.5313384	0.26395236	-2.0130086	0.04411372	0.20290225
Ptpu	201.523726	-0.5315383	0.3585571	-1.4824369	0.13822408	0.3974709

Tnpo1	19856.7511	-0.5319927	0.25425692	-2.0923432	0.03640782	0.18094537
Zfp90	634.156104	-0.5320101	0.217478	-2.4462708	0.01443425	0.09914624
Stk17b	1360.75611	-0.5325229	0.20407069	-2.6095022	0.00906741	0.0723114
Tarsl2	1196.58296	-0.5327092	0.25618973	-2.0793542	0.03758481	0.18420465
Ascc1	2208.19947	-0.5331205	0.20780977	-2.5654255	0.01030493	0.07898079
Stat4	604.143186	-0.53375	0.22598432	-2.3618894	0.01818207	0.11607115
Trabd	1129.82162	-0.5341345	0.23426968	-2.2799986	0.02260777	0.13372895
Pla2g2c	46.9918955	-0.5342037	0.38482053	-1.3881892	0.16507943	0.43853774
Hlcs	654.819513	-0.5342159	0.20910701	-2.5547489	0.01062644	0.08049284
Magi1	2188.14364	-0.5342933	0.21671093	-2.4654655	0.01368354	0.09542273
Zfp879	64.4792531	-0.5342969	0.38802676	-1.3769588	0.16852498	0.44336524
Pitpnm3	45.7879323	-0.5345536	0.43223537	-1.2367187	NA	NA
Abhd14b	177.535578	-0.534618	0.35133908	-1.5216581	0.12809477	0.38211884
Ly75	11954.2114	-0.535035	0.31453169	-1.7010528	0.08893307	0.31030481
Gm5796	10.6323094	-0.5352622	0.40587829	-1.3187751	0.18724431	0.46836678
Igfbp4	750.583442	-0.5354504	0.41392341	-1.2935978	0.19580438	0.47884164
Ero1l	4843.116	-0.5355972	0.22315046	-2.4001618	0.01638783	0.10794033
Kiz	755.558157	-0.5356661	0.17798577	-3.0096008	0.00261591	0.02947831
Padi1	29.0397336	-0.5356727	0.42727584	-1.2536929	0.20995364	0.49635769
Ctdspl2	6068.04988	-0.5358625	0.17969846	-2.9820096	0.00286363	0.03167305
Pecr	1743.58536	-0.5360459	0.25363749	-2.1134334	0.03456369	0.17485359
4930452B06f	1250.25156	-0.5361653	0.25682517	-2.0876663	0.03682795	0.18223429
Kif22	8516.84738	-0.5362936	0.2034903	-2.6354749	0.00840196	0.06864892
Nsmaf	2538.65354	-0.5363172	0.219264	-2.4459885	0.01444556	0.0991801
Urb2	7784.89195	-0.5364703	0.26696213	-2.0095372	0.04448019	0.20400802
Mei4	176.518633	-0.536656	0.27354583	-1.9618505	0.0497799	0.21905936
Selm	806.779967	-0.5368347	0.33708621	-1.5925739	0.11125582	0.35271344
Cd209e	21.4442993	-0.5371557	0.42593808	-1.2611121	0.20726847	0.49270563
Syngr1	3016.9815	-0.5372485	0.2573887	-2.0873042	0.03686064	0.18226387
Cxcl12	23.8265621	-0.5373525	0.43078885	-1.2473685	0.2122624	0.49892572
Nadk2	6038.98691	-0.5381798	0.19567315	-2.7504018	0.00595222	0.05342303
Cep152	1690.68148	-0.5382613	0.18031895	-2.985051	0.00283531	0.03142688
Pja1	2210.63738	-0.5387645	0.1927756	-2.7947751	0.00519358	0.04833357
Nipal1	84.5701897	-0.5391478	0.43178627	-1.2486451	0.21179491	0.49838694
AK129341	284.791664	-0.5393032	0.34450511	-1.5654432	0.11747902	0.36401527
Topbp1	19930.5998	-0.5393455	0.18849556	-2.8613169	0.00421885	0.04126249
Rab25	270.385006	-0.5396339	0.42483942	-1.2702068	NA	NA
AW549877	8282.12568	-0.539641	0.18355322	-2.9399701	0.00328244	0.03481938
Fhod3	722.351737	-0.5398832	0.26502057	-2.0371369	0.04163632	0.19567437
Ephx2	8016.77587	-0.5399183	0.27053988	-1.9957069	0.04596584	0.20850713
Pgpep1	3464.50062	-0.5399977	0.20437577	-2.6421807	0.00823741	0.0679215

Gm13157	6259.09136	-0.5400259	0.21222367	-2.5446073	0.01094007	0.08191094
Ncam1	1932.12664	-0.5400826	0.26650614	-2.0265299	0.04271051	0.1991746
Utp14b	1552.72024	-0.5400858	0.24221901	-2.2297418	0.02576459	0.14511594
A430033K04f	632.995832	-0.5403143	0.21360015	-2.5295594	0.01142059	0.08457215
Nlrp5	3.38988213	-0.5403515	0.33073199	-1.6338047	0.10229986	NA
Slc25a30	1366.42122	-0.5403949	0.27307471	-1.978927	0.04782422	0.2135883
Aktip	3186.68699	-0.5404278	0.20531812	-2.6321486	0.00848467	0.06918991
Kank1	2017.36528	-0.5405047	0.21620166	-2.5000026	0.01241924	0.08920627
Ralgps1	1042.54454	-0.5405772	0.21361337	-2.5306335	0.01138567	0.08439401
Zfp850	4402.0304	-0.5407373	0.17893165	-3.0220325	0.00251084	0.02866814
Cryzl1	3795.18081	-0.5407804	0.22692134	-2.3831185	0.01716667	0.11146508
Setd6	3446.5467	-0.5410855	0.17264245	-3.1341394	0.00172359	0.02173848
Ankrd26	2430.92918	-0.5411364	0.23357784	-2.3167281	0.02051855	0.12577215
Hltf	5305.01491	-0.5412238	0.19620227	-2.7584991	0.00580675	0.05259946
Zfp871	4144.00881	-0.5414015	0.24371784	-2.2214274	0.02632202	0.14666206
Rpl18a	42866.4032	-0.5416989	0.26468951	-2.0465445	0.04070283	0.19339128
Bod1l	5334.26716	-0.5417368	0.25767626	-2.1023933	0.03551884	0.17852406
Epdr1	640.665336	-0.5418211	0.25862408	-2.0950139	0.03616975	0.18049079
Unc13a	410.123056	-0.54202	0.27502873	-1.970776	0.04874951	0.21604611
Trim13	5018.23893	-0.542048	0.17529294	-3.0922411	0.00198651	0.02430881
Gm4371	140.11824	-0.5420989	0.36444159	-1.4874781	0.13688858	0.39501843
Ppp1r16b	100.662806	-0.5423212	0.407241	-1.3316961	0.18296008	0.46301256
Nemf	6385.58086	-0.5423397	0.16614572	-3.2642414	0.00109758	0.01568787
Myo5b	107.90749	-0.542343	0.3578023	-1.5157616	0.12957965	0.3847066
Zfp862-ps	501.290748	-0.5425578	0.23902724	-2.2698576	0.02321623	0.13620929
Fgf21	10.2103191	-0.5429133	0.42140034	-1.2883551	0.19762238	0.48086773
Hlf	63.2414103	-0.5429168	0.37398463	-1.4517089	0.14658257	0.41079574
Klhl7	1920.42386	-0.5431565	0.24273321	-2.2376686	0.02524267	0.14341894
Depdc1b	1692.47588	-0.5431936	0.17002718	-3.1947456	0.00139954	0.01868178
Creb3l2	1344.66494	-0.5432244	0.26160298	-2.076522	0.0378457	0.1850873
Nmnat1	391.533196	-0.5432355	0.23087414	-2.3529507	0.0186251	0.11769157
Rpgr	1066.19989	-0.5436133	0.22382354	-2.4287585	0.01515062	0.10230452
Mlh3	3178.43054	-0.5438953	0.19776889	-2.7501559	0.00595669	0.05342303
Dzip3	3970.31488	-0.5442893	0.28234574	-1.9277405	0.05388741	0.23016012
Slc19a3	120.866643	-0.5444649	0.37742855	-1.4425642	0.14914328	0.41453568
P2ry1	45.5576406	-0.544835	0.41837951	-1.3022506	0.19283073	0.47556451
Mga	21611.3399	-0.5448706	0.22959819	-2.3731484	0.01763718	0.11361877
Tbrg3	10.2683195	-0.544884	0.42315227	-1.2876782	0.19785799	0.48094783
Ssh1	2197.88163	-0.545001	0.21766344	-2.5038702	0.01228431	0.08860542
Pkia	50.8154014	-0.5451498	0.43209396	-1.2616465	0.20707601	0.4924666
Galnt18	74.7139224	-0.5452943	0.42107584	-1.2950027	0.19531931	0.47809787

Jup	7744.90931	-0.5453466	0.33695891	-1.6184364	0.10556859	0.34216279
Skil	5392.58383	-0.5454464	0.27716098	-1.9679768	0.0490707	0.21685095
Wdr83os	1032.5322	-0.5455617	0.20793125	-2.6237599	0.00869651	0.0703273
Ccdc33	14.4555305	-0.5458915	0.37892284	-1.4406403	0.14968633	0.41545103
Pard6g	1026.66858	-0.5459667	0.20652001	-2.6436505	0.00820173	0.06777104
Vwa3a	51.2462663	-0.5460194	0.41520365	-1.3150641	0.18848837	0.46966554
Osbpl1a	5543.24681	-0.5464418	0.20476745	-2.6685971	0.00761688	0.06402705
Naa25	7787.20236	-0.5466862	0.19867933	-2.7516007	0.00593048	0.0532881
Dbp	416.337514	-0.54674	0.23785851	-2.2985932	0.02152805	0.12976073
NrOb1	5826.80916	-0.5467408	0.33192359	-1.6471888	0.09951925	0.32999971
Carm1	7435.52706	-0.546773	0.20503984	-2.6666672	0.00766075	0.06425691
Fbln1	4523.8047	-0.5467738	0.26368578	-2.0735809	0.03811825	0.18603746
Oas1a	1692.64578	-0.5470291	0.19305782	-2.8334989	0.00460415	0.04414247
Pax8	47.6686894	-0.5471068	0.38969767	-1.4039264	0.16034077	0.43166
Traip	4304.3127	-0.5478296	0.23269998	-2.3542315	0.01856105	0.11740754
Cngb1	63.7132224	-0.5478327	0.4101953	-1.3355411	0.18169932	0.46079683
Siah1a	1716.35018	-0.5480278	0.18613708	-2.944216	0.00323774	0.03460487
Zfp354a	385.313705	-0.5481261	0.2008008	-2.7297009	0.00633918	0.05577716
Htatsf1	5303.43926	-0.5482758	0.15212864	-3.6040275	0.00031332	0.00606787
Dand5	169.179474	-0.5484219	0.29674458	-1.8481278	0.06458386	0.25732607
Cbx3	3212.68918	-0.5485727	0.17193966	-3.1904956	0.00142029	0.01891004
Vim	12702.8339	-0.5487224	0.30339566	-1.8086034	0.07051264	0.27025546
Slc27a2	1339.82257	-0.5487403	0.36372068	-1.508686	0.13137904	0.38745979
Phip	7194.3683	-0.5488242	0.21438026	-2.5600502	0.0104657	0.07989797
Sp3	11092.9784	-0.5490247	0.18612486	-2.9497654	0.00318015	0.03410659
Slc25a36	12638.4549	-0.5490684	0.17852239	-3.0756276	0.0021006	0.0252254
Fam76b	3940.19806	-0.5493361	0.18210164	-3.0166456	0.00255588	0.02899093
Acsl4	3150.50995	-0.5493574	0.21931798	-2.5048444	0.01225053	0.08848489
Iars	27088.0655	-0.5494943	0.18292578	-3.0039193	0.00266526	0.03001264
Myl7	246.204564	-0.5495308	0.27260553	-2.0158463	0.04381605	0.202071
Flt3l	75.1767172	-0.5495546	0.38334912	-1.4335617	0.15169738	0.41871751
Col5a3	207.529646	-0.5496355	0.40839455	-1.3458442	0.17835275	0.45610322
6820431F20F	2942.88875	-0.5498748	0.21537884	-2.5530584	0.01067816	0.08076655
Hmgcs2	6.62225581	-0.5500621	0.39659625	-1.3869574	0.16545474	0.43892642
Troap	1504.43492	-0.5506499	0.2032828	-2.7087874	0.00675296	0.05860383
Dera	3344.12229	-0.5510676	0.25845714	-2.132143	0.0329951	0.16973428
Mphosph10	8318.44655	-0.5511832	0.15659404	-3.5198226	0.00043184	0.00776355
Zfp109	216.39555	-0.5512425	0.30201467	-1.8252175	0.06796822	0.26474569
Anln	19541.9715	-0.5514086	0.23580938	-2.3383658	0.01936828	0.12096229
Skap1	10.5136055	-0.5514599	0.42578513	-1.2951601	0.19526502	0.47806832
A630007B06l	1207.02167	-0.5516255	0.2510438	-2.1973276	0.02799706	0.15293942

Tmem194	4182.24047	-0.5516969	0.20506396	-2.690365	0.00713739	0.06091852
Sdhb	9989.15934	-0.5517102	0.23174928	-2.380634	0.01728287	0.11189258
St6galnac3	749.306202	-0.5521461	0.30176355	-1.8297309	0.06729019	0.26331573
Zfp65	1697.9833	-0.5521797	0.19277044	-2.8644418	0.00417745	0.04099481
Zfml	15821.873	-0.5522118	0.16638434	-3.3188929	0.00090375	0.0135683
B4galt2	420.11273	-0.5524697	0.2447161	-2.2575944	0.02397096	0.13873104
Mcf2	12540.5968	-0.552478	0.22507894	-2.4545965	0.01410428	0.09748253
1110007C09F	727.928174	-0.5525056	0.26213268	-2.1077327	0.03505412	0.17681694
Rab3a	402.136131	-0.5529284	0.2128637	-2.5975699	0.0093886	0.07388771
Mt3	35.517759	-0.5529795	0.42597828	-1.2981402	0.19423916	0.47688873
Rpl5	60724.0154	-0.5531075	0.19988287	-2.7671581	0.00565473	0.05160608
Mroh8	30.4776361	-0.5535754	0.39545566	-1.399842	0.16156063	0.43255956
Efhd2	2165.70168	-0.5536383	0.19883627	-2.784393	0.0053628	0.04967059
Txnrd3	761.030567	-0.5543569	0.23856702	-2.3236948	0.02014186	0.12464228
Slc30a3	371.979853	-0.5547619	0.28754064	-1.9293338	0.05368944	0.22973636
Ets1	62.0523878	-0.5548482	0.3781841	-1.4671379	0.14233855	0.40318886
Mtss1	5434.03782	-0.5548853	0.23377987	-2.3735377	0.01761859	0.11358867
Bcar3	2717.43992	-0.5549661	0.23388051	-2.3728617	0.01765087	0.11365993
Rnase12	14.3738333	-0.5550174	0.42958275	-1.2919918	0.19635999	0.47933634
Oip5	3043.18503	-0.5552332	0.16749217	-3.3149799	0.0009165	0.01369111
Npm1	274751.986	-0.555235	0.17921184	-3.0982051	0.00194697	0.0239725
Pbrm1	7530.61093	-0.5553322	0.26515015	-2.0944065	0.03622379	0.18058504
Catsperg1	59.5652206	-0.5556487	0.41262272	-1.3466264	0.17810058	0.4556391
Dync2li1	1163.04564	-0.5556506	0.3027752	-1.8351918	0.06647728	0.26137959
Nsg2	99.2938124	-0.555884	0.42634064	-1.3038495	0.19228492	0.4751259
Csnk2a1	12207.169	-0.5559771	0.1547471	-3.5928113	0.00032713	0.00629603
Zfp449	547.02295	-0.5562091	0.21622911	-2.5723138	0.01010213	0.07804182
Ttc5	3675.14287	-0.5563334	0.16297181	-3.4136785	0.00064092	0.01056468
Unc5b	1385.80493	-0.5566733	0.37289403	-1.4928458	0.13547756	0.39321069
Tma16	1830.67106	-0.5567345	0.25024387	-2.2247677	0.02609683	0.14613366
Dctn6	1895.54999	-0.5568317	0.21294188	-2.614947	0.00892413	0.07148561
Tpd52	13143.2481	-0.5569509	0.20124942	-2.7674658	0.0056494	0.05158766
Notch1	3461.56285	-0.5574943	0.2690299	-2.0722392	0.03824314	0.1864323
Ift140	1997.41961	-0.557673	0.18939117	-2.9445564	0.00323418	0.0345906
Dmrt1	1142.97228	-0.5577771	0.33143845	-1.6828979	0.09239486	0.31658914
A230046K03f	7835.23633	-0.5579521	0.22260271	-2.5064928	0.01219355	0.08825721
Pdzk1	317.678128	-0.5580567	0.42195101	-1.3225627	0.18598083	0.46656448
Nubpl	1623.95368	-0.5585758	0.25849925	-2.1608409	0.03070763	0.16176637
Nthl1	1026.05001	-0.5586941	0.24653825	-2.2661559	0.02344184	0.13676785
Mdc1	13127.0972	-0.5587185	0.20398271	-2.7390482	0.00616173	0.05463006
AW551984	22.6975782	-0.5590119	0.43050101	-1.2985148	0.19411049	0.47681405

Hopx	241.560279	-0.5594583	0.4117618	-1.3586939	0.17424359	0.45152826
Zfp53	985.043713	-0.5598207	0.170479	-3.2838103	0.00102414	0.01481523
Ccnt2	7222.98401	-0.5603533	0.19878469	-2.8188959	0.00481891	0.04566662
Smim7	4470.46761	-0.5604233	0.19166118	-2.9240313	0.0034553	0.03613847
Ndufaf3	990.20947	-0.5604693	0.20688518	-2.709084	0.00674693	0.05860383
Pacsin3	658.712523	-0.5607831	0.23545666	-2.3816828	0.01723373	0.11166741
Gm12522	25.2592376	-0.5609911	0.42045158	-1.3342585	0.18211914	0.46138929
Dach2	58.0367165	-0.5612526	0.35556905	-1.5784632	0.11445924	0.35850064
Spib	23.7144155	-0.561325	0.43177974	-1.3000262	0.19359197	0.47620196
Dpysl4	132.537917	-0.5613274	0.42828853	-1.3106292	0.18998308	0.4716518
Gnb2l1	175148.032	-0.5613428	0.2217153	-2.5318181	0.01134728	0.08418971
Hacl1	657.358464	-0.5615575	0.29231739	-1.9210539	0.05472491	0.23195068
Dis3l2	2510.90589	-0.5617142	0.17519343	-3.2062513	0.00134476	0.01810197
Pds5a	12878.1843	-0.5617802	0.23791369	-2.3612773	0.01821211	0.11619705
Tarm1	83.4530158	-0.5621821	0.40899624	-1.3745409	0.16927382	0.44438521
Ptprd	116.936997	-0.562683	0.39076055	-1.4399687	0.14987625	0.41582971
Zfp72	560.456936	-0.5628184	0.21517904	-2.615582	0.00890755	0.07141612
Mgat3	1789.86458	-0.5631205	0.24433737	-2.3046842	0.02118427	0.12878676
9430038l01R	626.266085	-0.5634308	0.21189435	-2.6590175	0.00783689	0.06548708
Eef1a1	547447.455	-0.5638565	0.1476909	-3.8178144	0.00013464	0.00312503
Zfp59	3630.46452	-0.5639043	0.17722666	-3.1818255	0.0014635	0.01927085
Npc1l1	44.6788621	-0.5640485	0.4260451	-1.3239174	0.18553047	0.46609532
ltgae	292.376524	-0.5641885	0.24808302	-2.2741922	0.02295443	0.1351279
9430037G07l	55.0516477	-0.56478	0.3901017	-1.4477763	0.14767963	0.41238389
Med14	2680.79814	-0.5648601	0.24766331	-2.2807581	0.02256277	0.13361523
Ubox5	1238.71082	-0.565149	0.18660536	-3.0285784	0.00245707	0.0282618
Stbd1	10.1001638	-0.5652145	0.42952465	-1.315907	0.18820526	0.46953088
Hormad2	1073.80075	-0.5652561	0.27895015	-2.0263695	0.04272693	0.1991746
Slc38a2	12850.8302	-0.5653512	0.27443748	-2.0600363	0.03939507	0.18961086
Efcab6	19.0429052	-0.5654342	0.36023307	-1.5696344	0.11650019	0.3624409
Cars2	1878.89597	-0.5657216	0.29693643	-1.9051942	0.05675484	0.23754762
Lpar2	914.689587	-0.5667525	0.22971159	-2.4672351	0.01361609	0.09516577
Fcgbp	19.8489811	-0.5668072	0.42312753	-1.3395658	0.18038656	0.45896455
Nup37	3532.2691	-0.5668383	0.16935574	-3.3470276	0.00081683	0.01267718
Myrf	176.244586	-0.5670937	0.36966699	-1.5340664	0.12501333	0.37793201
Tpi1	27838.4218	-0.5673952	0.27097059	-2.0939364	0.03626565	0.18058504
Mtf2	39513.6373	-0.5675885	0.20978313	-2.7055966	0.00681818	0.0588726
Gnai2	20094.586	-0.5676488	0.21814041	-2.6022176	0.00926231	0.07345136
Zfp595	518.787572	-0.567997	0.24304187	-2.3370335	0.01943744	0.12124816
Ldhd	210.463685	-0.5680037	0.36361876	-1.5620857	0.11826781	0.36545911
Chit1	366.373406	-0.5682117	0.39451118	-1.4402931	0.14978449	0.4156493

Zfp260	4831.24393	-0.5682652	0.16273026	-3.4920685	0.0004793	0.00838417
Sbk1	4587.25955	-0.5685939	0.28106078	-2.0230283	0.04307023	0.20005532
Mllt4	10899.3169	-0.5686951	0.19199892	-2.9619704	0.00305677	0.03314913
Gdap10	185.313245	-0.569121	0.34150547	-1.6665062	0.09561264	0.32309262
Rlf	7629.41221	-0.5692778	0.17030769	-3.3426429	0.00082985	0.01281523
Shb	465.047833	-0.5702113	0.26324448	-2.1660901	0.0303043	0.16040239
5730455P16F	1624.21878	-0.5702553	0.18201303	-3.1330466	0.00173002	0.02180189
Lgalsl	3943.78631	-0.5704017	0.21068002	-2.7074314	0.00678061	0.05866229
Sstr5	307.655333	-0.5704867	0.40235041	-1.4178852	0.15622427	0.4250995
Sall1	10675.9209	-0.5705561	0.2806236	-2.0331723	0.04203512	0.19707211
Tmem47	1857.45677	-0.5707817	0.25332657	-2.2531459	0.02424995	0.13982331
lpo7	24268.6242	-0.571189	0.19946118	-2.8636599	0.00418777	0.04103596
Blm	10406.6273	-0.5714461	0.16622157	-3.4378576	0.00058634	0.00982555
Nbn	3538.84872	-0.5714968	0.16839083	-3.3938715	0.00068912	0.01111671
2410124H12I	43.1390871	-0.5718013	0.42984792	-1.330241	0.18343887	0.46369601
Fcgrt	2232.06026	-0.5718582	0.2783746	-2.0542759	0.03994899	0.19115781
Arrb1	443.964272	-0.5720802	0.20646315	-2.7708588	0.00559087	0.05125204
Inpp5f	708.750736	-0.5722593	0.42204396	-1.3559233	NA	NA
Sh3rf2	481.685595	-0.5722829	0.31895352	-1.7942518	0.07277298	0.27508329
1700066B17F	4.28505263	-0.5722921	0.33537136	-1.706443	0.08792563	NA
Gins1	3762.29088	-0.5723625	0.18103468	-3.1616178	0.00156895	0.02019768
Arvcf	3984.65114	-0.5724758	0.2034257	-2.8141762	0.00489024	0.04611774
Lynx1	50.3194048	-0.5724864	0.37731396	-1.5172681	0.12919901	0.38423673
Dppa3	5432.49946	-0.5725429	0.43046028	-1.3300713	0.18349478	0.46376196
Mtftp1	632.359061	-0.5726443	0.27747121	-2.0637972	0.03903695	0.18847055
Nup88	17871.4536	-0.5726679	0.17915191	-3.1965492	0.00139082	0.01862933
Dhdh	1209.51021	-0.5726793	0.18709926	-3.0608313	0.00220723	0.02628231
Zfp108	127.507132	-0.5727838	0.26531096	-2.1589147	0.03085678	0.16227724
Ddx3x	58542.4206	-0.5727877	0.17789487	-3.2198098	0.00128276	0.01752913
Pitx2	189.244291	-0.5728861	0.35114073	-1.6315	0.10278487	0.33693244
Efcab4a	123.22064	-0.5729264	0.32440777	-1.7660686	0.07738434	0.28561324
Kansl1l	290.234017	-0.5732746	0.2850491	-2.0111435	0.0443103	0.20355129
1500011B03F	627.648226	-0.5734758	0.19303034	-2.97091	0.00296919	0.03258564
Zc2hc1c	72.2401302	-0.5737362	0.33028054	-1.7371179	0.08236636	0.29691219
Incenp	8663.63165	-0.5740894	0.19576569	-2.9325332	0.00336209	0.03539638
Elp2	12916.3646	-0.5742382	0.16150801	-3.555478	0.00037729	0.00698485
Ddx19b	7326.7852	-0.5743478	0.19512131	-2.943542	0.0032448	0.03461858
Stra13	1847.07654	-0.5744897	0.2288703	-2.5101106	0.01206934	0.08770573
Efr3b	374.78119	-0.5750515	0.2955957	-1.9453987	0.05172702	0.224078
Tnk1	820.57008	-0.5751193	0.37737383	-1.5240041	0.12750768	0.38154165
Zfp606	1598.80736	-0.5751573	0.17864692	-3.2195199	0.00128405	0.01753146

Zfp791	264.475154	-0.5754878	0.34134944	-1.6859199	0.09181123	0.31542255
Slc26a5	43.038604	-0.5762521	0.42432238	-1.3580527	NA	NA
Fam129c	222.499816	-0.5766001	0.27023705	-2.1336827	0.03286876	0.16924764
Gm14124	1016.69573	-0.5766914	0.28752477	-2.0057101	0.04488718	0.20542689
Thnsl1	1208.15545	-0.577072	0.23375314	-2.4687242	0.01355957	0.09491533
Sit1	9.47183442	-0.577115	0.39056373	-1.4776463	0.13950248	0.39944817
Smc3	20269.1234	-0.5772379	0.18616056	-3.100753	0.00193029	0.02384272
Zfp652	1499.12787	-0.5773223	0.2406259	-2.3992527	0.01642857	0.10816288
Uck2	12046.5304	-0.577502	0.17535647	-3.2933032	0.00099018	0.01447202
Cdh23	27.3743804	-0.5776308	0.41236272	-1.4007832	0.16127891	0.43227306
Cct4	50095.2316	-0.5778613	0.17251502	-3.3496288	0.0008092	0.01259646
Pip5k1c	3782.01783	-0.5780795	0.22518589	-2.5671214	0.01025467	0.07876795
Nab2	987.891202	-0.5782317	0.25491839	-2.2683014	0.02331084	0.13636812
Aldh3a1	156.211727	-0.578363	0.4002754	-1.4449126	0.14848243	0.41357758
Arrb2	2394.59639	-0.5787132	0.23584984	-2.4537358	0.01413808	0.09758601
Fbxo27	499.667582	-0.5789683	0.26141635	-2.2147362	0.02677817	0.14835319
Zfp184	1200.18695	-0.5790946	0.20519392	-2.822182	0.00476981	0.04545056
Pnpla1	17.0585036	-0.5791244	0.43124496	-1.3429129	0.17930017	0.45747284
Utrn	8135.20832	-0.579396	0.24758988	-2.340144	0.0192763	0.12066388
Rps6ka2	2346.54637	-0.579425	0.22846655	-2.5361481	0.01120793	0.0835144
Pklr	94.3534177	-0.5794632	0.28899866	-2.0050722	0.04495533	0.20548551
Mroh4	146.127898	-0.5797432	0.38792982	-1.4944538	0.13505706	0.39257426
Ccdc88a	3350.00626	-0.5800414	0.22164897	-2.6169372	0.00887227	0.07126685
9330159M07	69.005638	-0.5800602	0.39147247	-1.4817396	0.1384096	0.39777094
4930539E08F	678.914954	-0.5800831	0.19410485	-2.988504	0.00280347	0.0312074
Smco4	263.37698	-0.5804354	0.24667462	-2.3530406	0.0186206	0.11769157
Btnl4	10.5647162	-0.5804958	0.42118726	-1.378237	0.16813014	0.44308872
Trim54	204.654052	-0.5806969	0.29133783	-1.993208	0.04623868	0.20896764
Cks1b	6608.28887	-0.580732	0.16610619	-3.4961493	0.00047202	0.00828723
Amigo1	387.673887	-0.5814618	0.22300648	-2.6073761	0.00912391	0.07259864
Nav2	1669.55599	-0.5816797	0.35496722	-1.6386857	0.10127872	0.33403721
Itpr3	5873.9084	-0.5823491	0.1871358	-3.1119065	0.00185883	0.02316243
Plekhh2	1100.39986	-0.5823513	0.20419392	-2.8519522	0.00434516	0.04225868
Ttf2	5923.07539	-0.5825344	0.16381343	-3.5560846	0.00037642	0.00698485
Fbln2	568.591418	-0.5827854	0.28358982	-2.0550294	0.03987617	0.19098069
Nek3	982.631386	-0.5835142	0.32086327	-1.8185757	0.06897618	0.26716458
Dnajc21	9985.87443	-0.5838413	0.176763	-3.3029609	0.0009567	0.01407758
Slc39a10	10302.0572	-0.5839391	0.19449975	-3.0022612	0.00267982	0.0301112
Pola1	13203.5616	-0.5843126	0.15930983	-3.6677748	0.00024467	0.00498673
Ccna2	19291.8693	-0.5846244	0.18313568	-3.1923019	0.00141144	0.01880828
Prss56	20.4163627	-0.5846279	0.42689698	-1.3694824	0.17084853	0.44668216

Ucma	14.655004	-0.5847283	0.42364329	-1.3802373	0.16751359	0.44231821
Rps4x	77034.8551	-0.5855771	0.19142727	-3.0590057	0.00222073	0.02634646
Mapk7	2354.4135	-0.5858426	0.22351016	-2.6211006	0.00876464	0.07069445
Smc1a	16314.8458	-0.5859369	0.14896663	-3.9333431	8.38E-05	0.00213722
Kntc1	10418.4972	-0.5859677	0.16106224	-3.6381444	0.00027461	0.00543315
Pdp1	712.861723	-0.5863805	0.30838135	-1.9014784	0.05723937	0.23865959
Thoc2	8997.76906	-0.5867171	0.23129658	-2.5366438	0.01119208	0.08343623
1810041L15F	15.2494475	-0.587031	0.43214422	-1.3584145	0.17433219	0.45161417
Tnni1	533.856544	-0.5872763	0.32115507	-1.8286379	0.06745387	0.26356157
Olf985	52.0808886	-0.5873128	0.36232738	-1.6209452	0.10502939	0.34118393
Fam167a	231.985064	-0.5878863	0.31224136	-1.8827945	0.05972822	0.24539855
Slc2a5	119.359699	-0.5880419	0.32190285	-1.8267683	0.06773461	0.26419385
Alg13	35792.6565	-0.5884381	0.19262678	-3.0548096	0.00225203	0.02659179
7-Mar	10059.9294	-0.5887129	0.19623995	-2.9999646	0.00270011	0.03028006
Ogfrl1	1022.53297	-0.5887199	0.25667616	-2.2936293	0.0218118	0.13072875
G0s2	115.094133	-0.5887691	0.35743816	-1.6471915	0.09951868	0.32999971
Polh	975.326858	-0.5888429	0.22757999	-2.5874106	0.00967003	0.07552918
Sp4	945.376962	-0.589043	0.26386496	-2.2323653	0.02559083	0.14455611
Fn3krp	1010.32625	-0.5892564	0.18226027	-3.2330491	0.00122477	0.01694513
Ripk2	1065.89369	-0.5895965	0.18429954	-3.1991206	0.00137847	0.01849582
Mogat2	104.35844	-0.5897253	0.33899474	-1.7396297	0.08192406	0.29593522
Zfp708	613.304984	-0.5898768	0.20336746	-2.9005464	0.00372513	0.03793677
Fto	4611.65372	-0.5899979	0.20954664	-2.8155921	0.00486874	0.04599869
Pdzd2	306.938028	-0.5901791	0.34591299	-1.706149	0.08798033	0.30877503
Kif27	59.0016775	-0.5902489	0.42492181	-1.3890765	0.16480949	0.43811151
Rusc2	2235.10486	-0.5902725	0.24677271	-2.3919683	0.01675829	0.10956306
Foxm1	3589.16499	-0.5904382	0.22641174	-2.6078071	0.00911243	0.07259599
Atad1	6860.66991	-0.5907394	0.16323662	-3.6189145	0.00029584	0.00577968
Igf1r	1165.38934	-0.5911357	0.25456467	-2.3221436	0.02022521	0.12485994
Rabl6	4304.81259	-0.591422	0.16813575	-3.5175268	0.00043559	0.00780396
Fam149b	1632.63151	-0.5915457	0.17774269	-3.3281014	0.0008744	0.01329208
Ifih1	29.2684261	-0.5915755	0.4002346	-1.4780718	NA	NA
Drd2	8.64767437	-0.5918406	0.41500058	-1.4261198	0.15383376	0.42169378
Parp2	4235.10881	-0.5922163	0.16835345	-3.5176961	0.00043531	0.00780396
Rimkb	3497.17929	-0.5926425	0.19810444	-2.9915658	0.00277551	0.03094044
Nrbp2	141.214917	-0.5926746	0.30416506	-1.9485296	0.05135162	0.22301711
Oas1d	69.7942497	-0.5928128	0.3480699	-1.7031428	0.08854135	0.30976524
Rcan2	41.9599353	-0.5929338	0.40974426	-1.4470826	0.14787379	0.41285195
E2f4	7461.18549	-0.5931754	0.25408027	-2.3345984	0.01956441	0.1217959
E130112N10I	36.6624707	-0.5935228	0.38894719	-1.5259728	0.12701665	0.38080506
Grb7	736.706643	-0.5936696	0.36177532	-1.6409899	0.10079952	0.33279315

Cd164l2	87.0340711	-0.5938871	0.39021245	-1.5219584	0.12801949	0.38211884
Prex1	1028.57828	-0.5939086	0.22204635	-2.6747053	0.0074795	0.06311104
Stk32b	3.9910922	-0.5940477	0.36796795	-1.6144007	0.10644053	NA
Zfp760	1851.52726	-0.5942442	0.20112962	-2.9545333	0.00313142	0.0338344
Gm21284	29.1553039	-0.5944161	0.39453923	-1.5066083	0.13191109	0.38843399
Zfp382	382.885421	-0.5946159	0.25250202	-2.3548955	0.01852791	0.11733675
Nrarp	370.899092	-0.5951458	0.25868347	-2.3006721	0.02141017	0.12925061
Hs3st6	31.2311514	-0.5953085	0.43211185	-1.3776722	0.16830452	0.44322322
Aspscr1	7965.11863	-0.5954069	0.20468778	-2.908854	0.00362756	0.03735909
Qsox2	2285.83575	-0.5954209	0.27764431	-2.1445458	0.03198918	0.1664297
Igip	122.49988	-0.5956266	0.34910078	-1.7061737	0.08797574	0.30877503
Copg2	7547.72056	-0.5956588	0.17532003	-3.3975516	0.00067992	0.01102544
Zfp964	116.532931	-0.5956878	0.33647938	-1.7703545	0.0766681	0.28423856
Atp7b	250.977364	-0.5959678	0.29082348	-2.0492423	0.04043843	0.19269956
Tnks	5018.32827	-0.5962186	0.32936597	-1.8102008	0.07026465	0.26987118
Hspa12a	213.482085	-0.5978753	0.31316925	-1.9091124	0.0562476	0.2362156
Rasgrp2	940.697283	-0.5980877	0.37407147	-1.5988594	0.10985185	0.35030265
Dhcr7	6119.46286	-0.5981598	0.1702326	-3.5137794	0.00044178	0.00788762
Entpd3	76.7510385	-0.5984082	0.39414426	-1.5182465	0.12895226	0.38379957
Fam84a	21.7980905	-0.5989363	0.42735902	-1.4014828	0.16106976	0.43209007
Pim1	7596.74532	-0.5992315	0.18061772	-3.3176785	0.00090769	0.01360208
Smtn	1648.8156	-0.5998454	0.20955431	-2.8624819	0.00420337	0.04113698
Zic3	3305.1352	-0.6003039	0.30334451	-1.9789509	0.04782153	0.2135883
Gm16576	62.1165986	-0.6006814	0.36597764	-1.6413061	0.10073388	0.33279315
Scd4	14.0423248	-0.6011529	0.42711743	-1.4074652	0.15928949	0.43014212
Grk6	4385.43021	-0.6014063	0.16629219	-3.6165634	0.00029854	0.00581779
Gm16897	5.79117111	-0.6016239	0.37387381	-1.609163	0.1075807	NA
Spc24	5656.82495	-0.6017315	0.21482077	-2.8010864	0.00509309	0.04759773
Cenpa	8613.64428	-0.6018781	0.19826442	-3.0357342	0.00239951	0.02786762
Parpbp	1933.23673	-0.6019334	0.18737836	-3.2123957	0.00131633	0.01778474
Kxd1	2910.16611	-0.6022634	0.19531468	-3.0835542	0.00204544	0.02486991
Rpl4	240775.021	-0.6024499	0.19006135	-3.1697655	0.00152562	0.01982031
4930538K18F	12.7960663	-0.6025895	0.42898479	-1.4046874	0.16011425	0.43144633
Tm4sf5	98.2134899	-0.6027348	0.3988576	-1.5111529	0.13074951	0.38666893
Katnal2	114.614899	-0.6034435	0.36650415	-1.6464847	0.09966401	0.33009875
Ptp4a3	1774.48925	-0.603835	0.19155885	-3.1522169	0.00162036	0.02075634
Sin3b	11336.9031	-0.6039137	0.21857529	-2.7629549	0.00572807	0.05209191
Agpat3	2233.70765	-0.6040282	0.20790507	-2.9053077	0.00366892	0.03761069
Idi1	1060.15932	-0.6042915	0.2131691	-2.8347988	0.00458545	0.04404472
Nampt	16202.749	-0.6043099	0.18127234	-3.3337126	0.00085695	0.01310369
Gabrp	56.5048638	-0.6048344	0.42292557	-1.4301203	0.1526825	0.42030588

Sft2d2	1343.1602	-0.6048899	0.18632533	-3.2464178	0.00116867	0.01644026
Cib3	18.4524524	-0.6050433	0.43127515	-1.4029171	0.16064157	0.43208565
Gm11961	29.7447343	-0.6052216	0.39909018	-1.5165034	0.1293921	0.38455938
Zc2hc1a	1503.95077	-0.6055315	0.16512496	-3.6671108	0.00024531	0.00499314
Efnb1	208.29064	-0.605618	0.25487735	-2.3761153	0.017496	0.11294322
Zkscan17	3094.58232	-0.6056245	0.22893415	-2.645409	0.00815922	0.06752746
Zfp619	228.340448	-0.605748	0.30015337	-2.0181281	0.04357792	0.20151063
Ankrd37	473.99164	-0.6059723	0.31449042	-1.9268386	0.05399975	0.23019466
Parp10	310.855596	-0.6065725	0.36114733	-1.6795707	0.09304087	0.31749931
Prr11	2535.69513	-0.6065982	0.20473638	-2.9628256	0.00304829	0.03312648
Rab11fip4os1	8.86228053	-0.6066219	0.42477308	-1.4281082	0.15326071	0.4210512
Pank4	1822.23916	-0.6068877	0.17713449	-3.4261409	0.00061222	0.01021532
Gm10509	343.870369	-0.607536	0.19956008	-3.0443765	0.00233163	0.02730362
Tubg2	128.930842	-0.6075703	0.29877826	-2.0335157	0.04200044	0.19696891
Trim14	21.1107606	-0.608262	0.42000678	-1.4482195	0.14755568	0.41218582
1190002F15F	303.894165	-0.6084266	0.33697242	-1.8055679	0.07098586	0.27115393
Ccdc18	2766.6111	-0.6085659	0.20054976	-3.0344883	0.00240944	0.02792043
Cdkn3	667.988446	-0.6087218	0.260612	-2.3357397	0.01950481	0.12161962
Slc17a5	654.569214	-0.6090149	0.28565608	-2.1319864	0.03300796	0.16974377
Prickle2	1515.07829	-0.6093242	0.31201203	-1.9528869	0.050833	0.22167808
Ccdc37	50.7302447	-0.6094506	0.41380945	-1.4727807	0.14081017	0.401182
Dusp10	234.704869	-0.6095286	0.29127822	-2.0925992	0.03638495	0.18092748
Zdhhc9	917.515639	-0.609598	0.26859045	-2.2696191	0.02323071	0.13622199
Galp	20.6967194	-0.610386	0.43012281	-1.419097	0.15587074	0.4245089
Cks2	4249.29617	-0.6104232	0.1763392	-3.4616422	0.00053689	0.00915481
Gsr	17153.7991	-0.6104752	0.18848034	-3.2389332	0.00119978	0.01673339
Eef2	203959.341	-0.6106452	0.18290364	-3.338617	0.00084197	0.01294475
Ankrd6	1008.27459	-0.6106623	0.29875684	-2.0440112	0.04095244	0.19386647
Mgat5b	544.60491	-0.6110357	0.20385854	-2.9973513	0.00272337	0.0304465
Sh3d19	6722.66711	-0.6114592	0.19481143	-3.1387233	0.00169686	0.02141867
1700029P11F	430.036096	-0.6117053	0.3571062	-1.7129508	0.08672159	0.30622332
Casp8ap2	7429.87768	-0.6120353	0.20941814	-2.9225515	0.00347176	0.03616167
Dcaf17	3748.89583	-0.6129724	0.1877647	-3.2645773	0.00109628	0.01568723
Rcor2	8732.59321	-0.6131223	0.28135519	-2.1791753	0.02931865	0.15701257
Slco4c1	481.225569	-0.6134118	0.42921415	-1.429151	0.15296085	0.42063558
Grina	877.772727	-0.6142245	0.27560611	-2.2286318	0.02583841	0.14538871
Iqgap3	4304.38143	-0.6143562	0.19847529	-3.0953789	0.00196562	0.02412573
Dnajc6	6323.97656	-0.6144967	0.27388929	-2.2435953	0.02485845	0.14201829
Mutyh	1378.71062	-0.6149011	0.18555817	-3.3137917	0.0009204	0.01373623
Slc4a5	3513.73115	-0.6151824	0.21166877	-2.9063446	0.00365678	0.03756054
Ube2e1	2010.35349	-0.6152303	0.23723161	-2.5933739	0.00950394	0.07456899

Mri1	1609.77771	-0.6153629	0.19927649	-3.0879853	0.00201518	0.02459822
1700001L05F	2913.71848	-0.6158099	0.18994085	-3.2421141	0.00118647	0.01663726
Ect2	15848.7863	-0.6159636	0.20336301	-3.0288872	0.00245456	0.0282618
Tfrc	41357.9607	-0.6160339	0.18888195	-3.2614757	0.00110834	0.01578369
4930427A07f	2569.75663	-0.6167638	0.21459178	-2.874126	0.00405147	0.0401463
Dcdc2a	610.758447	-0.6167715	0.34035608	-1.812136	0.06996519	0.26937713
2610305D13f	12012.2737	-0.6171634	0.29871658	-2.06605	0.03882376	0.18832092
Mid1ip1	1152.31403	-0.6175993	0.30030428	-2.0565784	0.03972679	0.19049997
Kif5a	2417.65228	-0.617774	0.24381889	-2.5337413	0.0112852	0.083927
Nr1h2	4489.3994	-0.6183826	0.16856716	-3.6684643	0.00024401	0.00497983
Neurod1	61.1037399	-0.6186044	0.41102269	-1.5050372	0.13231451	0.38867075
Zfp30	478.10813	-0.6187391	0.24369624	-2.5389767	0.01111772	0.08300131
Zfp759	585.305968	-0.6187843	0.24558774	-2.5196059	0.01174863	0.08605886
A930013F10f	160.221225	-0.6190643	0.3253464	-1.9027852	0.05706858	0.23824792
Zfp143	3387.78246	-0.619126	0.15856191	-3.9046328	9.44E-05	0.00233682
Melk	5889.28612	-0.6192145	0.15357738	-4.0319386	5.53E-05	0.00150659
Mettl24	8.78128181	-0.6192651	0.41526452	-1.4912545	0.13589469	0.39361713
Mir106b	6.75825034	-0.6205544	0.42441284	-1.4621481	0.14370063	0.40532857
Tpx2	18348.5397	-0.6207234	0.14955744	-4.150401	3.32E-05	0.001014
Tmem139	38.2335545	-0.6208253	0.41708106	-1.4885003	0.13661901	0.39482664
Slc23a2	5660.54577	-0.6208353	0.29452809	-2.1078983	0.03503978	0.17680198
Ikzf2	57.8664596	-0.6208811	0.33186976	-1.8708578	0.0613648	0.24948601
Zfp799	1783.43792	-0.6209455	0.17884471	-3.4719815	0.00051663	0.00887751
Aoc3	80.8541846	-0.6211528	0.38635054	-1.6077442	0.10789121	0.34694298
Olfr701	16.3479822	-0.6211782	0.33723384	-1.8419807	NA	NA
Hemk1	1185.69648	-0.6214498	0.2635973	-2.3575727	0.01839485	0.1168539
Fgf10	584.297468	-0.6216204	0.43176308	-1.4397257	0.14994501	0.41594628
Chek1	8059.94123	-0.6219319	0.18172956	-3.4222937	0.00062095	0.01030568
Gas5	26326.8229	-0.6219794	0.22160923	-2.8066494	0.00500597	0.04703796
Dmbx1	132.229116	-0.6220791	0.36136046	-1.7214918	0.08516162	0.30263903
Mboat4	4.24319214	-0.6223405	0.35826862	-1.7370778	0.08237344	NA
Fbxo24	138.074832	-0.6225053	0.25653784	-2.4265631	0.0152426	0.10263148
Gm1631	319.699713	-0.6231815	0.36049811	-1.7286679	0.08386855	0.2998942
Mgl2	131.32216	-0.6235303	0.29461967	-2.1163905	0.03431161	0.17386116
Anxa6	6378.57111	-0.6237866	0.25874472	-2.4108189	0.01591675	0.10573319
Pou6f1	636.728292	-0.6242893	0.25722354	-2.4270303	0.01522298	0.10261491
EU599041	2305.79804	-0.6243983	0.17187171	-3.6329323	0.00028022	0.00552304
Palm	1686.13914	-0.6247496	0.19696103	-3.1719452	0.00151422	0.01970508
Adamts9	1352.47183	-0.6247653	0.31822347	-1.9632911	0.04961236	0.21868531
Rnf165	350.455578	-0.6251923	0.31706595	-1.9718051	0.04863186	0.21577978
Gclc	4467.57057	-0.6252528	0.21114628	-2.9612307	0.00306412	0.0332057

Gm13154	11441.021	-0.6253097	0.2210542	-2.8287619	0.00467285	0.04475468
Triobp	2526.4458	-0.6258696	0.2440314	-2.5647094	0.01032622	0.07906603
Cldn6	802.02559	-0.6258696	0.36735392	-1.7037239	0.08843268	0.30966373
Tspyl5	133.393935	-0.6265577	0.30995974	-2.0214165	0.04323667	0.20047866
Jakmip1	3944.0237	-0.6266191	0.25427776	-2.4643096	0.01372775	0.09547055
Slc13a4	50.7923644	-0.6268409	0.38393908	-1.6326572	0.10254112	0.33648806
Zik1	1619.7944	-0.6268472	0.20516749	-3.055295	0.00224839	0.02657954
Pigg	1038.01291	-0.6268801	0.23314514	-2.6887974	0.00717099	0.06113822
Gm9895	65.9204487	-0.6275267	0.38123257	-1.646047	0.09975409	0.33026949
Plekhg5	2228.8183	-0.6279927	0.25943662	-2.4206015	0.01549485	0.10358485
Cdc14b	2693.03579	-0.6282008	0.27339043	-2.2978155	0.02157229	0.1299267
Zfp128	176.521027	-0.6282213	0.24277498	-2.5876692	0.00966277	0.07552918
Lrrc3	34.6354831	-0.6283152	0.40384001	-1.5558518	0.11974333	0.36825776
AW554918	914.318294	-0.62865	0.21804872	-2.8830713	0.00393818	0.03948593
Ttc22	3.98129545	-0.6292573	0.37375643	-1.6836026	0.09225849	NA
Bckdhb	2977.85432	-0.6293399	0.21443812	-2.9348324	0.00333728	0.0351851
Ripply1	42.4823771	-0.6295654	0.42674398	-1.4752765	0.14013821	0.40023679
Neil2	692.74442	-0.6295743	0.35454849	-1.7757071	0.07578121	0.28186405
Insc	13.9424837	-0.6296673	0.43180863	-1.4582092	0.14478289	0.40736725
Ccdc69	45.3360753	-0.6298115	0.41730533	-1.5092343	0.13123892	0.3874139
Ccnb1	16273.8035	-0.6298937	0.14906958	-4.2255016	2.38E-05	0.00076863
Abcb4	14.0146881	-0.6299847	0.42979117	-1.4657925	0.14270482	0.40393206
Nr4a1	1498.46613	-0.6300485	0.29340368	-2.1473775	0.03176324	0.16581071
E530001F21F	11.2820526	-0.6303802	0.43225164	-1.4583639	0.14474025	0.40736725
Slc22a20	78.6078827	-0.6306691	0.36518107	-1.7270037	0.08416699	0.30061573
Foxq1	22.7618801	-0.6318119	0.43130351	-1.4648892	0.14295115	0.4041144
Klc3	383.815016	-0.6318732	0.33634502	-1.8786459	0.06029286	0.24693492
Snrnp48	3253.56176	-0.6319988	0.18309242	-3.4518018	0.00055686	0.00941269
Pfkl	13125.8708	-0.6320134	0.28304228	-2.2329291	0.02555362	0.14450339
Plekha6	490.745574	-0.6321548	0.32599887	-1.9391319	0.05248527	0.22665884
Adprhl1	7.9349211	-0.6322907	0.41554488	-1.5215943	0.12811076	0.38211884
Gm13152	2715.57243	-0.6325387	0.20677941	-3.0590025	0.00222075	0.02634646
Ninj2	31.975829	-0.6325655	0.43015186	-1.4705633	0.14140927	0.40183728
Mep1b	807.273189	-0.6327451	0.34568408	-1.8304142	0.06718802	0.2633085
Sytl3	143.787582	-0.6329391	0.36135087	-1.7515914	0.07984409	0.29155449
2410006H16I	6742.5768	-0.6330978	0.25523075	-2.4804919	0.01312013	0.09256078
Slc6a6	15115.0318	-0.6333159	0.30656692	-2.0658325	0.0388443	0.18832092
Ankrd46	2974.09745	-0.633703	0.17097902	-3.7063205	0.00021029	0.00446146
Inpp4a	411.716792	-0.6338112	0.23253619	-2.7256454	0.00641759	0.05626104
Nupr1	3850.79448	-0.6340404	0.27686954	-2.2900332	0.02201939	0.13144857
Runx1t1	117.384001	-0.6342268	0.42826197	-1.4809318	0.13862476	0.39796079

Cd1d1	520.837224	-0.634471	0.22019678	-2.8813816	0.00395936	0.03962162
Sapcd2	1446.47076	-0.6344972	0.20149642	-3.1489256	0.00163872	0.02090543
Ccdc85c	541.817089	-0.634802	0.27039113	-2.3477176	0.01888884	0.11892321
Brca1	11499.2063	-0.6352911	0.18881302	-3.364657	0.00076639	0.01207096
Prkca	240.99161	-0.6353553	0.30869188	-2.0582183	0.03956919	0.18991988
Slc7a3	10026.6918	-0.635659	0.20239576	-3.1406735	0.0016856	0.02133939
Cdca3	11674.3837	-0.6356883	0.21335643	-2.9794664	0.00288751	0.0318918
Dagla	30.6290838	-0.6359853	0.39883214	-1.594619	0.11079746	0.35177853
4931428F04F	576.688391	-0.6360097	0.22691525	-2.8028513	0.0050653	0.04743073
Mab21l3	189.780984	-0.6363915	0.25778809	-2.4686614	0.01356195	0.09491533
Sfrp4	359.036297	-0.6364612	0.22392381	-2.8423114	0.00447877	0.04320681
Atp8b3	88.4359133	-0.6366092	0.32555599	-1.9554524	0.05052969	0.22106118
Fam196b	4.84219312	-0.6367028	0.40594942	-1.5684288	0.11678109	NA
Itsn2	3020.17855	-0.6367506	0.24892542	-2.5579976	0.01052768	0.07999426
Itgb7	796.737123	-0.6370239	0.20015194	-3.1827016	0.00145908	0.01922893
Mcam	6171.79595	-0.6379147	0.19672498	-3.2426725	0.00118414	0.01661967
Hibch	1668.12005	-0.6380823	0.23620038	-2.7014448	0.00690389	0.05938188
Bcl6	269.618968	-0.6382648	0.25632478	-2.4900628	0.01277205	0.09077613
Itih5	24.01124	-0.6383523	0.4204819	-1.5181445	0.12897798	0.38379957
Ly6c1	47.6385297	-0.6383878	0.41573299	-1.5355717	NA	NA
Ankrd27	4382.64934	-0.6385273	0.16544422	-3.8594717	0.00011363	0.00269797
Rax	18.366251	-0.6385771	0.42775903	-1.492843	0.13547829	0.39321069
Wdsub1	838.333191	-0.6386466	0.17244129	-3.7035597	0.0002126	0.00447977
Entpd2	142.991592	-0.6387241	0.39813794	-1.6042783	0.10865272	0.34823958
Gcfc2	1449.45846	-0.6393773	0.18241713	-3.5050287	0.00045656	0.00809571
Mdm1	1743.51113	-0.6394986	0.16875044	-3.7896113	0.00015088	0.0034348
Chm	4866.94649	-0.6397309	0.23182637	-2.7595262	0.00578852	0.05254953
Lmbrd2	1073.38148	-0.6400263	0.30875607	-2.0729189	0.03817982	0.18618201
Amer1	1674.99109	-0.6400944	0.25023929	-2.5579291	0.01052976	0.07999426
Bok	827.856296	-0.6403059	0.22453325	-2.8517196	0.00434834	0.04226319
Sh2d3c	280.54269	-0.6403568	0.27715334	-2.3104784	0.02086168	0.12747349
Tppp	11.8400412	-0.6409542	0.42840043	-1.4961567	0.13461282	0.3921626
Fut4	18.3163156	-0.6412481	0.42682541	-1.5023663	0.13300253	0.38977816
Pcyt2	2672.18125	-0.6422161	0.18020128	-3.5638819	0.00036541	0.00682992
Cyp4a12b	31.5767202	-0.6425843	0.43227123	-1.4865304	0.13713888	0.39552055
Slc1a6	13.2964238	-0.6427848	0.43222381	-1.4871574	0.13697324	0.3951894
Poli	2367.6882	-0.6429445	0.17349161	-3.7059109	0.00021063	0.00446259
Scaper	2033.34258	-0.6432458	0.20060175	-3.2065813	0.00134322	0.01810093
Itfg1	4576.54251	-0.6433032	0.19079893	-3.3716293	0.00074725	0.01184554
Vegfb	1429.52431	-0.6435388	0.22104219	-2.9113845	0.00359831	0.03715624
Maoa	3181.25202	-0.6435903	0.27462597	-2.3435156	0.01910296	0.11988304

Hps3	1106.70208	-0.643948	0.36740695	-1.7526833	0.07965638	0.29126179
Scoc	1183.48803	-0.6441906	0.24196523	-2.6623273	0.00776024	0.06495127
Nr1d2	1653.84571	-0.6447122	0.23531457	-2.7397887	0.00614787	0.05460052
Tmeff1	10129.6784	-0.644847	0.24030685	-2.6834315	0.00728709	0.06178928
Ccdc61	2142.59056	-0.645204	0.21767435	-2.9640791	0.0030359	0.03302127
B430306N03	28.8632773	-0.6454194	0.42571265	-1.5160917	0.12949617	0.38455938
Spdl1	3616.36662	-0.6456648	0.18507108	-3.4887394	0.0004853	0.00844179
Prmt7	7938.75825	-0.6460681	0.202882	-3.1844527	0.00145028	0.01912918
Wbp2nl	138.897789	-0.6462907	0.2998775	-2.1551824	0.03114756	0.16325438
4930502E09F	3.70551032	-0.6469529	0.38168863	-1.6949757	0.09008004	NA
Fam110b	805.879103	-0.6469732	0.20598718	-3.1408421	0.00168463	0.02133939
St6galnac2	539.50325	-0.6482553	0.24052483	-2.6951699	0.00703528	0.06024535
Rab39	468.773734	-0.6482641	0.40289049	-1.6090329	0.10760915	0.34644655
Gstm1	3348.01526	-0.6483206	0.22502129	-2.881152	0.00396224	0.039625
Cacng1	9.41254629	-0.6483563	0.4161636	-1.5579361	0.11924839	0.36728692
Zfp781	48.4629855	-0.648677	0.42074396	-1.5417381	0.12313725	0.37454897
Swt1	5250.73895	-0.6488027	0.24958454	-2.5995309	0.00933513	0.07382763
Auh	970.882959	-0.6492175	0.23104615	-2.8099039	0.00495563	0.04664952
Kitl	101.346647	-0.6492305	0.38359611	-1.6924845	0.09055364	0.31332569
Rasal1	596.374226	-0.6494536	0.29728787	-2.1845951	0.02891855	0.15593356
Mir6516	405.31137	-0.6495388	0.4115548	-1.5782558	0.11450685	0.35857754
Kctd14	29.3279502	-0.6496668	0.4204879	-1.5450308	0.12233882	0.37281814
Cep290	1632.2421	-0.6496862	0.25000819	-2.5986598	0.00935885	0.07382763
Ccdc141	1933.80676	-0.6497436	0.33715488	-1.927137	0.05396256	0.2301623
Zfp280c	3143.09954	-0.6500122	0.23680612	-2.7449129	0.0060527	0.05412621
Gm2a	3764.53917	-0.6504283	0.24829884	-2.619538	0.0088049	0.07090883
Mut	4501.93047	-0.6507086	0.19585008	-3.3224829	0.0008922	0.0134444
Gm13826	2335.86784	-0.650945	0.21673522	-3.0034111	0.00266972	0.03004106
Nedd1	2752.4236	-0.6511611	0.19612354	-3.3201579	0.00089967	0.01353065
Spatc1	17.1947344	-0.6512078	0.43207181	-1.5071749	0.13176583	0.38823237
Cntrl	4294.89391	-0.6514569	0.20192454	-3.2262396	0.00125428	0.01723088
Wnk2	169.010528	-0.6515653	0.3008759	-2.1655617	0.03034469	0.16048754
Appl1	7223.56611	-0.6517312	0.18972143	-3.4352006	0.00059212	0.00990106
Tmem163	30.6422439	-0.651904	0.41161243	-1.583781	0.11324356	0.35655018
Patl2	1563.5026	-0.6526369	0.3170496	-2.0584693	0.0395451	0.18991988
Vti1a	704.44684	-0.6527625	0.26086877	-2.5022637	0.0123402	0.08892059
Fxr1	36084.9844	-0.6530003	0.15342727	-4.2560901	2.08E-05	0.00068832
Pcsk6	8605.72801	-0.6530562	0.22032651	-2.9640382	0.00303631	0.03302127
Kcnh2	538.194323	-0.6530761	0.22544219	-2.8968673	0.00376909	0.0383343
2410076I21R	2474.69662	-0.6531166	0.2607324	-2.5049309	0.01224753	0.08848489
Arhgap28	1026.50513	-0.653451	0.24136287	-2.7073384	0.00678251	0.05866229

Def8	6672.21832	-0.6535	0.18815223	-3.4732515	0.00051419	0.00884538
Cep72	1923.23124	-0.6545482	0.23769029	-2.7537858	0.00589103	0.05307714
1700003M02	284.152024	-0.654889	0.30158896	-2.1714621	0.02989626	0.15907484
Ablim1	3572.79669	-0.6557602	0.30080858	-2.1799918	0.02925807	0.15689389
D230030E09f	9.45905565	-0.6558826	0.42740555	-1.5345672	0.12489017	0.37770653
Abcg1	1261.22611	-0.6561838	0.32394917	-2.0255763	0.04280822	0.19943399
Zfp958	2285.73129	-0.6567753	0.1899539	-3.4575512	0.00054511	0.00924426
Mamstr	143.277521	-0.657125	0.4131599	-1.590486	0.1117253	0.35356943
Pate2	21.7858583	-0.6579534	0.42690148	-1.5412301	0.1232608	0.37474658
Kif2c	8980.33645	-0.6580039	0.15696741	-4.1919777	2.77E-05	0.00086701
Zfp937	765.607178	-0.658822	0.21551247	-3.057002	0.00223563	0.02649867
Cat	13128.3999	-0.6589178	0.22241809	-2.9625188	0.00305133	0.03313636
Plxna3	696.667206	-0.6589193	0.22713697	-2.9009778	0.00372	0.03793426
Zfp945	1749.26206	-0.6589403	0.36369492	-1.8117942	0.070018	0.26945062
St3gal1	97.8298588	-0.659157	0.41546922	-1.5865363	0.11261772	0.35523693
3110045C21f	16.5159474	-0.659415	0.43227136	-1.5254653	0.12714307	0.38089037
Gm960	7.3166392	-0.6602216	0.42320096	-1.5600665	0.11874417	0.36645974
Zfp472	1600.21979	-0.6603891	0.18099884	-3.6485817	0.00026369	0.00528575
Rdh11	2306.4415	-0.6613812	0.17598142	-3.7582441	0.00017111	0.0037803
Gm11413	58.2860481	-0.6615748	0.39435673	-1.677605	0.09342424	0.31846566
Ccbl2	3012.54654	-0.6615766	0.23836918	-2.7754283	0.00551291	0.05072852
Cd1d2	47.4762342	-0.6624082	0.41731609	-1.5873057	0.11244342	0.35490311
Cyp2d22	16.3822728	-0.6625067	0.42691374	-1.5518515	0.12069777	0.36940975
Krtcap3	278.085828	-0.6630184	0.36285654	-1.8272191	0.06766684	0.26406198
Ttl	1865.39025	-0.6630378	0.20631521	-3.2137125	0.00131031	0.01773421
Lrrn1	10.7543345	-0.6630447	0.41549557	-1.5957925	0.11053512	0.35130424
Zfp37	786.753893	-0.6632651	0.22626307	-2.9313889	0.0033745	0.03548131
Pcdhgb8	26.2066591	-0.6639204	0.43059365	-1.5418723	0.12310464	0.37454897
Nkx6-3	194.671057	-0.664195	0.37301266	-1.7806232	0.07497403	0.28013482
Usp51	54.2420737	-0.6646976	0.35802344	-1.8565758	0.06337153	0.25451724
Syng4	103.198961	-0.6651135	0.35151904	-1.8921124	0.05847601	0.24189476
Gstm6	390.216009	-0.6651348	0.34912855	-1.9051286	0.05676336	0.23754762
Gm15545	44.4618057	-0.6651824	0.36767626	-1.8091524	0.07042732	0.27015671
Srrm4os	1043.48042	-0.6668094	0.33173021	-2.0100956	0.04442107	0.20383361
lqcb1	3100.62232	-0.6672124	0.21708202	-3.0735495	0.00211529	0.02534269
Zmym6	2960.90023	-0.6673297	0.20012494	-3.3345656	0.00085433	0.01307642
N4bp3	2240.40251	-0.6676839	0.19726669	-3.3846765	0.00071262	0.01143652
C330027C09f	10898.5356	-0.6681506	0.17658472	-3.7837396	0.00015449	0.00347177
Bmf	764.626817	-0.6682941	0.18928733	-3.5305804	0.00041465	0.00753295
Phgdh	5931.94533	-0.6688059	0.20165568	-3.3165735	0.00091129	0.01363947
Rtp2	10.9473409	-0.668987	0.38062639	-1.7575949	NA	NA

Zfp715	2035.14345	-0.6692345	0.22562322	-2.9661599	0.00301544	0.03293052
Sox8	27.4920278	-0.6692613	0.42778902	-1.5644657	0.11770824	0.3642587
Palb2	2643.45371	-0.6697585	0.15394824	-4.3505436	1.36E-05	0.0004866
Arhgap19	6761.70678	-0.6701012	0.20237559	-3.3111762	0.00092905	0.01385197
Fam126b	1255.39415	-0.6703252	0.25869298	-2.5911997	0.0095642	0.07489064
Zfp493	892.396276	-0.6710251	0.31225547	-2.1489617	0.03163743	0.16543165
Nalcn	98.9886178	-0.6710724	0.34119504	-1.9668294	0.04920288	0.21731157
Meiob	45.4500633	-0.6710933	0.40224778	-1.6683581	0.09524467	0.32233946
Gria4	15.1556208	-0.6711052	0.43135394	-1.555811	0.11975304	0.36825776
Lrguk	110.912591	-0.6721039	0.29633818	-2.2680302	0.02332737	0.1363774
Bst1	420.624226	-0.6721756	0.28488397	-2.3594714	0.01830099	0.1164956
Igtp	163.752372	-0.6721789	0.37937047	-1.7718271	0.07642327	0.283601
Lats1	1607.9309	-0.6722518	0.25409374	-2.6456844	0.00815258	0.06750844
Kcnb1	99.5410034	-0.6724456	0.35836369	-1.8764334	0.06059579	0.24771956
Msh5	58.5165796	-0.6724801	0.34973317	-1.9228378	0.05450043	0.23144078
Rilpl1	481.148596	-0.6727602	0.25405791	-2.6480584	0.00809555	0.06717927
Cyp2j9	33.4785708	-0.672998	0.42437232	-1.5858669	0.11276951	0.35564361
4632428N05I	41.6629802	-0.673086	0.43102576	-1.5615912	0.11838433	0.36571209
3110082I17R	1678.95136	-0.6733128	0.20775703	-3.2408664	0.00119167	0.01666516
Zfp575	7.83731676	-0.673323	0.4191635	-1.6063493	0.10819719	0.3475348
Wdr31	826.20307	-0.6737031	0.21232618	-3.1729632	0.00150892	0.01966904
Cask	2655.44524	-0.6737514	0.24724365	-2.7250505	0.00642916	0.05629501
Mipol1	653.815121	-0.6741739	0.2751797	-2.4499406	0.01428798	0.0983191
Pank3	5856.86021	-0.6742504	0.27420451	-2.4589325	0.01393508	0.0965276
Armcx6	67.9098303	-0.67435	0.36282902	-1.8585889	0.06308543	0.25389275
Elmod2	1776.64594	-0.6749687	0.24476002	-2.7576754	0.0058214	0.05263288
Cyp39a1	354.060691	-0.6750551	0.24731014	-2.7295891	0.00634133	0.05577716
Eif4a2	77097.6682	-0.6753784	0.25832691	-2.614433	0.00893757	0.07153274
Rfx8	28.8362086	-0.6759969	0.42566315	-1.5881028	0.11226309	0.3545406
Gcat	7161.65109	-0.6760284	0.2357304	-2.8678033	0.00413332	0.04068185
Slc6a20a	6.73662014	-0.6760383	0.42339098	-1.5967235	0.11032735	0.35105463
Col26a1	286.274724	-0.6761008	0.31797075	-2.1262987	0.03347839	0.17123146
Arid3a	1273.72509	-0.6767839	0.23529093	-2.8763707	0.00402277	0.04000712
Abcc2	235.718364	-0.6778083	0.4189583	-1.6178418	NA	NA
Cdkn1c	159.848227	-0.6779735	0.36246177	-1.870469	0.06141872	0.24957474
Uba6	5011.75304	-0.6795613	0.2582091	-2.6318256	0.00849275	0.06921944
4930451C15F	16.9244773	-0.6802258	0.43208559	-1.5742848	0.11542163	0.3603537
Syce2	4816.18994	-0.6803628	0.21170241	-3.2137699	0.00131005	0.01773421
Tlcd2	314.510995	-0.680553	0.31772734	-2.1419404	0.03219828	0.16696081
Arhgap5	8445.07738	-0.6805539	0.23299447	-2.9209015	0.0034902	0.0363051
Cd160	17.2735971	-0.6815555	0.42410065	-1.6070608	0.10804104	0.34728115

Efhd1	274.770503	-0.6818723	0.27969601	-2.4379049	0.01477266	0.10047016
Atad5	5528.08577	-0.6820289	0.2461153	-2.7711763	0.00558542	0.05125204
Susd5	108.841644	-0.6827329	0.3743133	-1.823961	0.06815797	0.26505819
Rnf141	274.797587	-0.6830208	0.26193987	-2.6075481	0.00911933	0.07259864
Smc4	23348.4803	-0.6831758	0.19296651	-3.5403855	0.00039954	0.00730117
Gm13242	7582.23171	-0.6835173	0.29244132	-2.3372801	0.01942462	0.12121683
Plin3	7679.03889	-0.6836061	0.18404542	-3.7143339	0.00020374	0.00434617
Pcca	2097.40893	-0.6838102	0.20532839	-3.3303248	0.00086745	0.01321222
Arhgap33	80.6009355	-0.6842229	0.32060349	-2.1341719	0.03282872	0.16915817
Pemt	270.139351	-0.6847642	0.34152173	-2.0050383	0.04495895	0.20548551
Qdpr	8317.28531	-0.6850587	0.18028055	-3.7999589	0.00014472	0.00333414
Rab11fip1	4518.3742	-0.685072	0.28478477	-2.4055782	0.0161469	0.10685123
Hk1	10222.7994	-0.6855182	0.158887	-4.3145016	1.60E-05	0.0005514
Kif3a	2272.88551	-0.686069	0.23693186	-2.8956384	0.00378388	0.03835929
Pcif1	1427.40447	-0.6869272	0.21627792	-3.1761319	0.00149253	0.01955148
Snord96a	600.247872	-0.6870245	0.24178329	-2.8414886	0.00449035	0.0432916
E430018J23R	95.2813557	-0.6896082	0.29469938	-2.3400395	0.0192817	0.12066388
Otx2	848.594542	-0.6904009	0.40924604	-1.687007	0.091602	0.31522522
Snord2	659.533223	-0.6909801	0.3197613	-2.1609248	0.03070115	0.16176637
Nrg4	152.909439	-0.691096	0.24559923	-2.8139178	0.00489417	0.04612685
Irf6	787.688035	-0.6915006	0.21358246	-3.2376283	0.00120528	0.01675001
Gstm7	119.623935	-0.6922766	0.41380411	-1.6729573	0.09433571	0.32012942
Zfp354c	1411.77031	-0.6927043	0.22483839	-3.0808989	0.00206377	0.0249756
Dmc1	551.526797	-0.6928347	0.31150252	-2.2241704	0.02613698	0.14621961
Plch2	39.5702017	-0.693223	0.3843229	-1.8037515	0.07127028	0.27194282
Al593442	41.3480709	-0.6932533	0.39425615	-1.7583829	NA	NA
Pmp22	36.0449216	-0.6933721	0.42152771	-1.6449028	0.09998986	0.33097962
Arhgap33os	48.0397332	-0.6943576	0.42235193	-1.644026	0.10017082	0.33143754
Phospho1	753.997228	-0.6945515	0.1861771	-3.7305959	0.00019103	0.00414898
Zfp120	1293.80466	-0.694616	0.16728697	-4.1522423	3.29E-05	0.00100984
Cdc20	10506.465	-0.6948374	0.20544127	-3.3821707	0.00071915	0.01150573
Kif17	37.7083834	-0.6950048	0.40253982	-1.7265493	0.08424864	0.30083827
Pbld1	25.2433697	-0.6951315	0.42973904	-1.6175665	0.10575605	0.34248486
Ppp4r4	137.851438	-0.6951802	0.31755066	-2.1891946	0.0285827	0.1549824
Lmcd1	6.10517804	-0.6955285	0.40836802	-1.7031905	0.08853242	0.30976524
Qpct	1846.06128	-0.6958983	0.21960234	-3.1689018	0.00153016	0.01985579
Dtd1	517.118994	-0.6967112	0.40004757	-1.7415709	0.08158355	0.29530769
Krt18	472.408948	-0.6967208	0.35965609	-1.937186	0.05272261	0.22703322
Zfp41	1297.39671	-0.6969984	0.21181307	-3.2906299	0.00099963	0.01455552
Pbld2	52.9547989	-0.6970559	0.362558	-1.9226053	0.05452964	0.23150161
Zfp748	2018.43677	-0.6974013	0.20197707	-3.4528736	0.00055465	0.00938558

Zfp358	338.472465	-0.6977478	0.34756736	-2.0075183	0.04469451	0.20478618
Alg11	3219.59891	-0.6977803	0.18074196	-3.8606433	0.00011309	0.00269731
Kcnu1	175.195269	-0.6981511	0.37989523	-1.8377464	0.06609978	0.26043013
Ifit2	50.2382833	-0.6986708	0.42580904	-1.6408077	0.10083733	0.33279315
2310039L15F	56.6634703	-0.6991158	0.42085034	-1.6611982	0.09667365	0.32484267
Ffar4	24.6660495	-0.6991681	0.43158255	-1.6200101	0.10523011	0.34149278
Ddah2	4209.35662	-0.6994132	0.2408412	-2.9040429	0.00368378	0.03768843
Zfp26	3947.64772	-0.6995025	0.21937322	-3.1886412	0.00142943	0.018983
Mcm10	10520.2811	-0.6998642	0.17361102	-4.0312201	5.55E-05	0.00150856
Nxt2	2718.59298	-0.7001115	0.34759233	-2.0141742	0.04399125	0.20257858
Pif1	2970.04142	-0.700519	0.18799418	-3.7262804	0.00019433	0.00419136
Tspan7	103.436547	-0.7017259	0.3965482	-1.7695854	0.07679623	0.28448265
Rif1	38374.1858	-0.7018626	0.25312938	-2.7727426	0.00555861	0.0510886
Slc17a9	1989.61856	-0.7020094	0.19781135	-3.5488831	0.00038687	0.00710295
Chst15	102.695654	-0.7020474	0.39556664	-1.7747892	0.0759327	0.28229248
9030617O03I	2815.01131	-0.7021585	0.24594661	-2.8549225	0.00430473	0.04197047
Ptprz1	42.0360577	-0.7030248	0.41731841	-1.6846245	0.09206104	0.31596586
Il1rl2	23.2960758	-0.7030724	0.42953083	-1.636838	0.10166432	0.33488282
Mysm1	2855.74179	-0.7031677	0.21716647	-3.2379201	0.00120405	0.01675001
Fyco1	1293.78608	-0.7032379	0.22392642	-3.1404866	0.00168667	0.02133939
Raet1a	19.5605648	-0.7039166	0.41743028	-1.6863095	0.0917362	0.3153569
Myof	11596.4971	-0.7044329	0.30095668	-2.3406454	0.01925044	0.12063633
Zfp939	222.523798	-0.7048487	0.23677503	-2.9768709	0.00291207	0.03213457
Zfp516	6063.99706	-0.7048853	0.21185626	-3.3271865	0.00087728	0.01329955
Mtmr7	4522.16891	-0.7054462	0.24522055	-2.8767827	0.00401752	0.03999775
Cgref1	611.296563	-0.7056709	0.19300967	-3.6561428	0.00025604	0.00516428
Chst12	501.141018	-0.7060652	0.27423158	-2.5747041	0.01003259	0.07765892
Mip	95.9602585	-0.7063424	0.35324762	-1.9995675	0.04554699	0.20722681
Fgyy	210.752378	-0.7064668	0.37296147	-1.8942084	0.05819735	0.24108336
LOC666331	13.9450091	-0.7068192	0.42416334	-1.6663844	0.09563687	0.32310427
Zfp51	1414.61567	-0.707104	0.1639246	-4.3135932	1.61E-05	0.0005514
Prkaa1	3639.98086	-0.7072119	0.20264346	-3.489932	0.00048314	0.00841362
Fbxl16	267.10136	-0.707535	0.28420373	-2.4895345	0.01279105	0.09086963
Svip	735.735238	-0.7079274	0.20726183	-3.415619	0.00063637	0.01052458
Mas1	20.5648734	-0.707934	0.42310092	-1.6732036	0.09428723	0.32007437
Trim43a	212.78667	-0.7080024	0.42784361	-1.654816	0.09796184	0.32719169
Gpr133	197.379076	-0.7081164	0.4100081	-1.727079	0.08415348	0.30061573
Zfp944	2291.75538	-0.7081344	0.19957226	-3.5482607	0.00038778	0.00710965
Clcn1	76.0050064	-0.7082684	0.39003134	-1.8159268	0.06938161	0.26819621
Pirt	108.48693	-0.7083684	0.36606112	-1.9351097	0.05297684	0.22802182
Ncald	12.2716537	-0.7085747	0.42920999	-1.6508812	0.09876284	0.32874299

Ogfod3	528.799237	-0.7088184	0.21875675	-3.2402128	0.00119441	0.0166884
Ncapg	11300.0801	-0.7089817	0.16489266	-4.2996557	1.71E-05	0.0005821
Kcna5	9.89492478	-0.7090433	0.40804522	-1.7376587	0.08227097	0.29684358
Lypla1	16772.9794	-0.7093326	0.22027725	-3.2201811	0.0012811	0.01752184
Myrfl	18.4396498	-0.709784	0.42722645	-1.6613764	0.09663787	0.32479263
Fam213b	588.237309	-0.7104295	0.30720449	-2.3125623	0.02074672	0.12684142
Gm4262	87.9939937	-0.7109415	0.31799098	-2.2357286	0.02536955	0.14367149
Klhl3	61.0796952	-0.7119436	0.41890543	-1.6995331	0.08921878	0.31101075
Cwf19l2	4579.07681	-0.7119751	0.19028545	-3.741616	0.00018284	0.00399909
Hsd1l	1561.27398	-0.7120981	0.20563669	-3.4628944	0.0005344	0.00913234
Eno1b	1792.27474	-0.7125715	0.34574781	-2.0609573	0.03930712	0.18953953
Rftn2	160.27404	-0.7132646	0.34277875	-2.0808307	0.0374494	0.18371473
Otop1	54.9947941	-0.7135298	0.42789098	-1.6675505	0.09540499	0.32274239
Map4k4	15077.6921	-0.7148248	0.21758696	-3.2852372	0.00101897	0.01479545
Fas	27.1190703	-0.7155575	0.42705706	-1.6755547	0.09382545	0.3190125
Mastl	3940.36001	-0.715657	0.18401296	-3.889166	0.00010059	0.00244799
Fancd2	6375.66216	-0.7163078	0.16754355	-4.2753528	1.91E-05	0.00063821
Thada	4674.25962	-0.7166141	0.26177239	-2.7375466	0.00618993	0.05478638
Cep70	2465.98065	-0.7170901	0.1724968	-4.1571215	3.22E-05	0.00099048
Kcnj11	5.41867322	-0.7180035	0.3881594	-1.8497645	0.0643475	NA
Cenpc1	4113.85979	-0.7186036	0.15572606	-4.6145365	3.94E-06	0.00017455
Zfp600	4838.16956	-0.719163	0.29484707	-2.4391053	0.01472368	0.10033652
Gprasp2	1370.54594	-0.7204182	0.2229072	-3.2319198	0.00122962	0.01697938
Tmprss6	10.0827888	-0.7206074	0.41989526	-1.7161598	0.0861328	0.30489812
Rnf144a	398.199456	-0.7206459	0.28954377	-2.4889015	0.01281384	0.09090698
Tmem68	1240.43949	-0.7209505	0.2675716	-2.6944208	0.00705111	0.06030338
Htr3a	27.9858036	-0.7213838	0.43054134	-1.6755273	0.09383083	0.3190125
Shcbp1	4430.76916	-0.7216108	0.18613406	-3.8768336	0.00010582	0.0025554
Kcnk5	3866.64464	-0.7218416	0.17960765	-4.0189913	5.84E-05	0.00156678
Pla2g5	461.770005	-0.7224869	0.33721671	-2.1425003	0.03215324	0.16689423
Notch4	1017.89906	-0.7228414	0.26481507	-2.7296084	0.00634096	0.05577716
Ly6g6c	26.7531321	-0.7233061	0.42172816	-1.7151003	NA	NA
Nudcd3	5984.04579	-0.7235646	0.24723015	-2.9266841	0.00342597	0.03587691
Snord53	42.4427239	-0.7241231	0.38965765	-1.8583571	0.06311831	0.25390138
Glb1l2	245.653733	-0.7243459	0.28220864	-2.5667036	0.01026703	0.07876795
Lysmd3	1445.62624	-0.7247835	0.25418772	-2.8513709	0.00435312	0.04227463
Kcnrg	68.0474115	-0.7249874	0.37187218	-1.9495607	0.0512285	0.22277806
Hist1h2ae	9.42240944	-0.7252095	0.42785418	-1.6949923	0.09007688	0.31253583
Spice1	3100.47795	-0.7254432	0.14923154	-4.8611923	1.17E-06	6.32E-05
Hist1h2ah	7.09149336	-0.7256854	0.41160931	-1.7630441	0.07789306	0.28697345
Stambpl1	332.661746	-0.7258006	0.3753728	-1.933546	0.05316897	0.22878548

Kif23	8153.98002	-0.7266263	0.17536212	-4.1435758	3.42E-05	0.00103653
Klhl36	131.601414	-0.7276941	0.29023337	-2.5072723	0.01216669	0.08820712
Zfp775	772.293521	-0.7279519	0.19976179	-3.6440996	0.00026833	0.00534973
Stmn2	14730.0526	-0.7279943	0.22353544	-3.2567286	0.00112704	0.01599144
Ctsh	47.5512058	-0.7286488	0.39114316	-1.8628699	0.06248057	0.25214118
Rsad2	25.0283001	-0.72947	0.42909611	-1.7000153	0.08912804	0.31083879
LOC10050367	952.612693	-0.7296516	0.19058077	-3.8285688	0.00012889	0.00300958
Arl5b	2229.29729	-0.7307089	0.28025835	-2.6072689	0.00912677	0.07259864
BC068157	141.989349	-0.7307251	0.35885833	-2.0362496	0.04172529	0.19591487
Zfp773	313.044682	-0.7310542	0.21829484	-3.3489305	0.00081124	0.01261561
Cep85l	231.73093	-0.7311459	0.35211616	-2.0764338	0.03785384	0.1850873
Odf2l	720.037327	-0.7314364	0.32144335	-2.2754752	0.02287744	0.13501598
Mocos	376.801127	-0.7321796	0.36519849	-2.0048811	0.04497576	0.20548551
Gsx2	24.5062331	-0.7328212	0.41740501	-1.7556598	0.07914651	0.29028477
Cyp4f37	15.0568834	-0.7331623	0.4317119	-1.6982675	0.08945728	0.31119611
Ckap2l	5285.84815	-0.7334959	0.16073157	-4.5634836	5.03E-06	0.00021146
Cntfr	80.2813655	-0.7335575	0.43227215	-1.6969808	0.08970029	0.3116464
Mov10l1	289.444485	-0.7335632	0.35604576	-2.0603059	0.03936931	0.18954651
Tcea3	2265.66883	-0.7338579	0.29616731	-2.4778491	0.0132177	0.09292427
Cenpi	3062.5437	-0.7343142	0.16404038	-4.4764235	7.59E-06	0.00029968
Npw	28.9784708	-0.7344086	0.41103318	-1.7867379	0.07397986	0.27775489
Pdk4	376.357161	-0.7347667	0.30270112	-2.4273668	0.01520887	0.10256424
Cd83	7.49464154	-0.7349637	0.42203545	-1.7414739	0.08160054	0.29530769
Foxr1	218.441717	-0.735632	0.3947208	-1.8636768	0.06236711	0.2518491
Catsperg2	30.0516914	-0.7364851	0.42663426	-1.726268	0.08429921	0.30094974
Map4k3	5261.45667	-0.736802	0.21519499	-3.423881	0.00061734	0.01025662
Serpinb9	138.503863	-0.7368541	0.32126835	-2.2935781	0.02181475	0.13072875
Htr5a	347.278945	-0.7369125	0.41011956	-1.7968235	0.07236364	0.27431941
Btnl1	39.0284226	-0.7369636	0.40266808	-1.8302012	0.06721986	0.2633085
Ms4a15	11.4531654	-0.7372753	0.43137606	-1.7091243	0.08742792	0.30773917
Zfp455	128.381427	-0.7377876	0.33859745	-2.178952	0.02933523	0.15701257
Rnf224	36.9796906	-0.7379989	0.41559391	-1.7757692	0.07577096	0.28186405
Galnt9	15.1853465	-0.7386353	0.43119595	-1.7129922	0.08671398	0.30622332
Stmn1	3508.78972	-0.7390328	0.27069236	-2.7301577	0.0063304	0.05577716
Apoc4	30.1945238	-0.7399323	0.43157549	-1.7144911	0.08643857	0.30564466
Atr	7504.83763	-0.7405073	0.19248514	-3.8470881	0.00011953	0.00282065
Pold1	8148.94785	-0.7405175	0.15770699	-4.6955275	2.66E-06	0.00012724
Psat1	32027.8003	-0.7411573	0.16104044	-4.6023054	4.18E-06	0.00018378
Cnn1	8.34356074	-0.7414555	0.41623504	-1.7813386	0.07485715	0.27989987
Tefm	2128.81949	-0.7419812	0.21661441	-3.425355	0.000614	0.01023394
9030025P20F	31.9662965	-0.7420572	0.43065258	-1.7230994	0.08487055	0.30208788

Pbk	3839.60824	-0.7424545	0.17429654	-4.2597204	2.05E-05	0.00068013
Ddx60	75.2472197	-0.7434138	0.42971603	-1.7300117	0.08362818	0.29951679
2010204K13F	328.771803	-0.7440656	0.32587143	-2.2833102	0.0224121	0.13302694
Lipt1	430.227242	-0.7447172	0.22404398	-3.3239778	0.00088743	0.01341153
Cdh13	10.3669609	-0.7457321	0.43115099	-1.729631	0.08369622	0.29962244
Nfatc2	131.346362	-0.7465442	0.35792085	-2.0857801	0.03699854	0.1824805
Ctsc	3572.65551	-0.7467098	0.26334909	-2.8354372	0.0045763	0.04398397
Hddc3	184.365776	-0.7468317	0.4034356	-1.8511794	0.06414375	0.2564266
Asgr2	112.655498	-0.7470855	0.3601798	-2.0742016	0.03806059	0.18588017
Sbf2	3740.03692	-0.7478433	0.22160757	-3.3746288	0.00073915	0.01176517
Capn6	156.499557	-0.7479513	0.36509939	-2.0486239	0.04049891	0.19271892
Tekt5	78.4663826	-0.7479902	0.41323614	-1.8100794	0.07028347	0.26987118
Podxl	1662.6663	-0.7486009	0.21032369	-3.5592802	0.00037187	0.00692574
Immp2l	368.473417	-0.7487041	0.33914622	-2.2076146	0.02727115	0.15017482
Lrrc48	251.389585	-0.7490382	0.3360303	-2.2290794	0.02580862	0.14531131
Ano8	522.076817	-0.7491857	0.21641246	-3.4618419	0.00053649	0.00915481
Sh3gl2	4297.00407	-0.7493016	0.22077172	-3.3940107	0.00068877	0.01111671
Sorcs2	435.363273	-0.7501725	0.34078518	-2.2013062	0.02771435	0.15193025
Fmo5	51.847641	-0.7505061	0.41445074	-1.8108451	0.07016483	0.26968196
Kbtbd12	18.4072001	-0.7513106	0.39127072	-1.920181	0.05483504	0.23230863
Srxn1	3035.8394	-0.751707	0.27654315	-2.7182268	0.00656328	0.05730804
Map3k13	142.676156	-0.7527251	0.3162612	-2.3800742	0.01730915	0.11196948
Kif5b	17694.1609	-0.7538576	0.2489751	-3.0278435	0.00246306	0.02829249
Snx29	383.99617	-0.7540352	0.25529385	-2.9535971	0.00314094	0.03387291
Ces1c	13.5414247	-0.7545168	0.39436903	-1.9132253	0.05571922	0.23498367
Cmklr1	1041.54861	-0.7554992	0.32030803	-2.3586644	0.01834083	0.1166537
Rnase1	9.22959237	-0.7556349	0.41841832	-1.8059316	0.07092902	0.27107821
Ifitm1	8221.74088	-0.7561495	0.4305079	-1.7564127	0.07901797	0.29008698
Msantd3	2385.12815	-0.7561945	0.18426489	-4.1038444	4.06E-05	0.00118778
Oprd1	12.6504904	-0.7581151	0.43134709	-1.7575525	0.07882369	0.28944208
Gprin2	29.1733284	-0.7584734	0.41249901	-1.8387278	0.06595524	0.26019024
Spata13	712.866656	-0.758629	0.34531559	-2.1969151	0.02802651	0.15298008
Arhgap18	142.504938	-0.7587106	0.29541744	-2.568266	0.01022087	0.07875048
Auts2	1852.62661	-0.7593532	0.234994	-3.2313726	0.00123197	0.01697938
Bub1b	17583.0454	-0.7595234	0.18669824	-4.0681871	4.74E-05	0.001347
Nsun6	944.701572	-0.7595713	0.2080203	-3.6514289	0.00026079	0.00523963
Nuak2	646.327651	-0.7597649	0.27642611	-2.748528	0.00598635	0.05359457
Lipc	157.70242	-0.7601999	0.36501622	-2.082647	0.03728341	0.18313151
Rac2	499.030336	-0.7613842	0.20530522	-3.7085476	0.00020845	0.00444041
Gbp4	60.6013997	-0.7615758	0.43058946	-1.768682	0.07694696	0.28483746
Fam131c	204.830181	-0.7615793	0.30231667	-2.5191443	0.01176404	0.08613118

Tmem8b	403.394397	-0.7616808	0.22685068	-3.3576305	0.00078614	0.01232379
Zfp710	7200.66534	-0.7617094	0.2306358	-3.3026505	0.00095776	0.01407758
Krt13	30.4184684	-0.761777	0.42590457	-1.7886096	0.07367771	0.27716036
Ybx2	500.468511	-0.7617861	0.37378238	-2.038047	0.04154524	0.19548259
Wasf3	1424.04133	-0.7623056	0.20666175	-3.6886634	0.00022544	0.0046681
Ppfbp2	877.146951	-0.7623193	0.21875146	-3.4848648	0.00049239	0.00853633
Mrps31	4414.20876	-0.7628455	0.18661335	-4.0878397	4.35E-05	0.00125856
Sgk3	2336.70692	-0.7628983	0.38727997	-1.9698883	0.04885118	0.21621299
Rdm1	2892.74411	-0.7635159	0.23068967	-3.30971	0.00093393	0.0138848
Hsf2bp	5986.01606	-0.7635867	0.18977056	-4.0237362	5.73E-05	0.00154652
Gcdh	4653.17902	-0.7637353	0.19889858	-3.8398226	0.00012312	0.00289228
Hist1h2bk	12.7885261	-0.7653843	0.42787171	-1.7888172	0.07364426	0.27716036
Atp2b2	174.128528	-0.7656593	0.40874326	-1.8732034	0.06104031	0.24881724
5730522E02F	8.40048533	-0.7659195	0.42440358	-1.8046961	0.07112225	0.2714831
Fam69b	392.603036	-0.7661063	0.2381314	-3.2171578	0.00129467	0.01764546
Gm17296	1686.73703	-0.766353	0.27819547	-2.7547285	0.00587409	0.05295531
Mdm4	9300.15938	-0.7665145	0.24254819	-3.1602565	0.0015763	0.02027551
Fbxo17	464.561124	-0.7675932	0.2495933	-3.0753759	0.00210237	0.02522687
Kif20a	19805.7433	-0.7680868	0.1905545	-4.0307985	5.56E-05	0.00150863
Gm1976	21.6604321	-0.7684997	0.41506945	-1.8514966	0.06409814	0.25637607
Sall3	1032.72178	-0.7685328	0.34713972	-2.2139006	0.02683562	0.14851272
Raet1e	41.9569789	-0.7687385	0.43170951	-1.7806846	0.07496398	0.28013482
Tmc5	101.161316	-0.7687991	0.4141509	-1.856326	0.0634071	0.25452862
Grin1	2578.25431	-0.7690619	0.40573595	-1.8954739	NA	NA
Spag5	7024.19809	-0.7693356	0.16010583	-4.8051689	1.55E-06	8.08E-05
Primpol	2368.95445	-0.7700446	0.24018361	-3.2060664	0.00134563	0.01810197
Trem12	93.1145612	-0.7717596	0.38037078	-2.0289667	0.04246168	0.19829479
Epor	31.9654473	-0.7727846	0.39994629	-1.9322211	0.05333223	0.22885717
Fzd8	308.343808	-0.7737159	0.21509049	-3.5971645	0.00032171	0.0061993
Myadml2	10.2301325	-0.7747063	0.43206969	-1.7930123	0.07297095	0.27542993
Tbc1d24	2248.90904	-0.7747776	0.24593344	-3.1503549	0.00163072	0.0208376
4921525O09I	136.27905	-0.7749959	0.30694671	-2.5248548	0.01157461	0.08512127
Dnah8	6053.77147	-0.7759091	0.24995274	-3.1042232	0.00190779	0.02365877
Bsn	108.518676	-0.7761969	0.28167968	-2.7556013	0.00585844	0.05284486
Lgals12	68.3442588	-0.7763573	0.40393543	-1.9219838	0.0546078	0.23177017
Kif26a	193.695249	-0.7781745	0.3810531	-2.0421681	0.04113486	0.1944341
Utp14a	7411.62938	-0.7786999	0.25806792	-3.0174222	0.00254934	0.02893785
Acyp1	1090.71148	-0.7790772	0.27641944	-2.8184604	0.00482546	0.04570078
5930412G12I	216.582637	-0.7794218	0.29306576	-2.6595458	0.00782461	0.06541963
Rras	1331.90511	-0.7798435	0.25304735	-3.0818088	0.00205747	0.02494937
Lrrn2	345.100104	-0.7800826	0.3566664	-2.1871491	0.02873164	0.15542836

Zfp459	2852.35919	-0.780129	0.25834424	-3.0197267	0.00253003	0.02880269
Commd10	4784.24823	-0.7815072	0.1622772	-4.815878	1.47E-06	7.75E-05
Prkaa2	2322.66283	-0.7821734	0.27180236	-2.8777285	0.0040055	0.03991826
8430419L09F	1045.39761	-0.7826102	0.21404633	-3.6562654	0.00025592	0.00516428
Olfr287	19.3566984	-0.7826901	0.42493767	-1.8418939	0.06549067	0.25931693
Amot	108.585993	-0.7837686	0.36347554	-2.1563172	0.03105891	0.16312595
Hsd17b2	43.9203147	-0.783895	0.43183466	-1.8152666	0.06948295	0.26821738
Rxra	1281.73349	-0.7847233	0.20643843	-3.8012464	0.00014397	0.00332178
Dpp6	690.57417	-0.7857998	0.33158665	-2.3698174	0.01779687	0.11431606
Myo3b	6.6877488	-0.7861862	0.40714637	-1.9309671	0.05348712	0.22915812
Myh3	171.749726	-0.7865092	0.26749472	-2.9402795	0.00327916	0.03481526
Cgn	716.846683	-0.7865182	0.21431046	-3.6699946	0.00024256	0.00495661
Cfc1	22.0015578	-0.7870899	0.43114244	-1.8255913	0.06791185	0.264686
Vcan	2401.23347	-0.7871967	0.30808668	-2.5551145	0.01061529	0.08044752
Zfp738	1079.94532	-0.787345	0.27465956	-2.8666215	0.00414879	0.04075667
B3gnt2	3964.86137	-0.788005	0.22888993	-3.4427246	0.00057589	0.00967127
Smpd5	12.3453623	-0.788564	0.43218667	-1.8245912	0.06806274	0.2648758
Gem	105.752513	-0.7887739	0.42127553	-1.8723468	0.06115864	0.24903848
Arrdc2	1008.55729	-0.7889588	0.23449705	-3.3644719	0.0007669	0.01207096
Ngfr	1636.86885	-0.7904446	0.27413904	-2.8833712	0.00393443	0.03948593
Zfp2	1153.67437	-0.790631	0.21284284	-3.7146236	0.00020351	0.00434617
Lix1	60.8558367	-0.7909184	0.42858072	-1.8454363	NA	NA
Erich3	9.25621586	-0.7914174	0.42983412	-1.8412158	0.06558994	0.25939598
Iffo2	756.230751	-0.7917642	0.1954979	-4.0499884	5.12E-05	0.0014173
Tjp3	1150.85225	-0.791897	0.32383511	-2.4453711	0.01447032	0.09926242
Thra	664.484686	-0.7929381	0.22197905	-3.5721302	0.00035409	0.00662628
Tspan15	1206.8972	-0.7931729	0.33068528	-2.3985732	0.01645908	0.10827209
Slc22a7	161.66927	-0.7936335	0.29417372	-2.6978394	0.00697911	0.05983028
Kif21b	1616.59987	-0.7944094	0.19010076	-4.1788859	2.93E-05	0.0009111
Lmf1	593.911758	-0.7944998	0.27823774	-2.8554709	0.00429731	0.04192434
Mnd1	1030.88908	-0.7950833	0.24055063	-3.305264	0.00094887	0.01398661
Elmo1	1056.59049	-0.7950971	0.28369123	-2.8026847	0.00506792	0.04743073
Bdp1	4625.57039	-0.7951233	0.23822474	-3.3377027	0.00084474	0.01296798
Ccbl1	936.085336	-0.7953649	0.24566268	-3.2376302	0.00120527	0.01675001
Mcph1	3200.37645	-0.7954734	0.21168757	-3.7577708	0.00017143	0.0037803
Trp73	378.418934	-0.795593	0.33254872	-2.3924104	0.01673811	0.10950542
Pnma5	3975.41644	-0.7958934	0.26050041	-3.055248	0.00224874	0.02657954
Lrch2	1203.48052	-0.7961612	0.21324584	-3.7335368	0.00018881	0.00410654
Trim43b	15.5132658	-0.7964624	0.4309441	-1.8481804	0.06457625	0.25732607
Tox3	98.3900632	-0.7967493	0.28755126	-2.7708079	0.00559174	0.05125204
Ticam2	119.965031	-0.7974602	0.41091992	-1.9406707	0.05229824	0.22603944

Mbps2	3870.70698	-0.7992784	0.15936242	-5.0154757	5.29E-07	3.24E-05
Ms4a10	124.644457	-0.7993113	0.32021426	-2.4961764	0.01255401	0.08989
Klf7	133.221341	-0.7994852	0.34138216	-2.3419068	0.0191855	0.12035247
Nrep	477.208709	-0.7996173	0.24766935	-3.2285679	0.00124412	0.01710634
Aloxe3	67.3501548	-0.7996322	0.4052325	-1.9732677	0.04846507	0.21552197
Xxylt1	1942.40704	-0.8002019	0.19324064	-4.1409608	3.46E-05	0.00104239
Commd1	5233.41605	-0.801791	0.26333475	-3.0447595	0.00232866	0.02730362
Kcnmb2	14.921028	-0.8019001	0.43191226	-1.8566272	0.06336421	0.25451724
Prdm1	1337.66547	-0.8020593	0.17108292	-4.688132	2.76E-06	0.00013072
Foxj2	586.64699	-0.8027533	0.1902177	-4.2201821	2.44E-05	0.0007827
Otog	25.8589397	-0.804184	0.39863772	-2.0173305	0.04366103	0.2017424
Fam3b	139.572734	-0.8052202	0.3633718	-2.2159678	0.02669371	0.14799696
1700049G17l	379.377878	-0.8054759	0.20726599	-3.8861944	0.00010183	0.0024704
Phyhip	223.257214	-0.8058201	0.28582426	-2.8192853	0.00481307	0.04566662
Rassf2	853.484533	-0.8066772	0.27667033	-2.9156621	0.00354935	0.03682181
Rgma	906.002425	-0.8068116	0.30721768	-2.6261888	0.00863469	0.07004594
Prdm5	2273.33184	-0.8075823	0.22562754	-3.5792717	0.00034455	0.0065423
Alms1	2888.92763	-0.8076408	0.24589402	-3.2845078	0.00102161	0.01480619
Nxpe4	25.6490977	-0.8077669	0.4206423	-1.9203177	NA	NA
Pde4c	122.928337	-0.8081978	0.33535459	-2.40998	0.0159534	0.10575075
Xpa	437.307807	-0.8082754	0.27656255	-2.9225772	0.00347148	0.03616167
Neurog3	7.55013691	-0.8084598	0.38137076	-2.1198788	NA	NA
S100a10	2505.96	-0.8084837	0.35524199	-2.2758676	0.02285394	0.1349797
Zfp292	9019.68712	-0.8101557	0.23767123	-3.4087244	0.00065267	0.01074046
Schip1	85.1070985	-0.8107084	0.32894092	-2.4646017	0.01371656	0.09547055
Krt8	858.41288	-0.8112929	0.41139458	-1.9720555	NA	NA
Dixdc1	1134.31015	-0.8121212	0.23049987	-3.5233041	0.0004262	0.00770682
Catsperd	657.883501	-0.8121302	0.27866165	-2.9143955	0.00356378	0.03689771
Tmem211	134.710445	-0.8122039	0.38584866	-2.1049806	0.035293	0.17767608
Nuak1	381.028357	-0.8127683	0.2884168	-2.8180338	0.00483187	0.04573369
Lcorl	1036.68446	-0.812851	0.30424129	-2.6717313	0.00754611	0.06353518
Creb3l3	44.3120393	-0.8131624	0.39385663	-2.0646153	0.03895941	0.18833006
Lrp8	1014.48218	-0.8142677	0.30762513	-2.6469478	0.00812219	0.06734001
Preli2	2239.48539	-0.8147064	0.34546	-2.3583235	0.01835769	0.11671317
Eps8l2	1755.58593	-0.8152696	0.33948793	-2.4014686	0.01632941	0.10764673
Amica1	70.0056491	-0.8157327	0.43176224	-1.88931	NA	NA
MacroD1	341.749777	-0.8158655	0.35460903	-2.3007465	0.02140596	0.12925061
Eif4b	54188.9927	-0.8159618	0.18522524	-4.4052407	1.06E-05	0.00038939
Pvrl4	113.06436	-0.815985	0.32116847	-2.540676	0.01106384	0.08267841
Pde9a	171.463741	-0.8161012	0.31718852	-2.5729217	0.0100844	0.07794361
Pcm1	13817.295	-0.8165005	0.33005988	-2.4737952	0.01336863	0.09381571

2310042E22F	8.86211693	-0.8165028	0.41716922	-1.9572461	0.05031854	0.22060999
Rgs3	981.921359	-0.8165988	0.28224279	-2.8932496	0.00381278	0.03855174
Prkcb	151.667181	-0.8167963	0.42612793	-1.9167865	0.05526507	0.23353996
Camkv	755.45748	-0.8177473	0.23195919	-3.5253929	0.00042286	0.00766413
Ephb4	4335.03702	-0.8183892	0.16305258	-5.0191738	5.19E-07	3.22E-05
Akap2	6514.32625	-0.8187254	0.26423183	-3.0985118	0.00194495	0.02396668
Apoa2	111.126504	-0.8201121	0.37257477	-2.2012015	NA	NA
Gm13247	10087.4094	-0.8206012	0.21742981	-3.7740973	0.00016059	0.0035778
Nfix	180.84976	-0.8210175	0.30542577	-2.6881083	0.00718581	0.06118588
Slc23a1	19.6386675	-0.8210891	0.43149675	-1.9028859	0.05705544	0.23824792
Dmd	6040.60588	-0.8214802	0.18071213	-4.5457943	5.47E-06	0.00022671
Hist1h4d	21.7097948	-0.8219539	0.43084709	-1.9077624	0.05642193	0.23662822
Samm50	14295.5785	-0.8234561	0.15995975	-5.1478959	2.63E-07	1.76E-05
Cpne9	187.459858	-0.8234587	0.37012318	-2.2248235	0.02609309	0.14613366
Abi3	57.6205785	-0.8234615	0.3851329	-2.1381231	0.03250676	0.16806941
Ush1c	138.417909	-0.8244794	0.40152947	-2.0533473	0.04003891	0.19132821
Ntpcr	686.461145	-0.824735	0.31473049	-2.6204485	0.00878142	0.07079308
Grp2	8.73513555	-0.8250631	0.41863343	-1.9708486	0.0487412	0.21604611
Prkar1b	130.097103	-0.8257872	0.35865627	-2.3024474	0.02130995	0.12914425
Ank3	1283.3323	-0.8264872	0.20223543	-4.0867579	4.37E-05	0.00126209
Isoc1	4004.21337	-0.8270519	0.187419	-4.41285	1.02E-05	0.00038045
Cux2	212.960155	-0.828082	0.25624021	-3.231663	0.00123072	0.01697938
1700019G17I	294.91779	-0.8290526	0.26097062	-3.1768044	0.00148907	0.01954143
Piwil4	45.7891384	-0.8292065	0.43199147	-1.9194975	0.05492141	0.23259335
Tvp23a	42.2449046	-0.8295003	0.41896127	-1.9798974	0.04771506	0.21328452
Kctd19	34.91018	-0.8299435	0.43187419	-1.9217251	0.05464036	0.23178183
Serpinb1c	31.2286962	-0.8300779	0.43204731	-1.9212662	0.05469815	0.23190047
Mypn	755.893477	-0.8313148	0.2641568	-3.1470507	0.00164926	0.02100549
Radil	1214.92946	-0.8318769	0.32468891	-2.5620737	0.01040492	0.07959025
Pdcl	4686.94081	-0.832188	0.15010852	-5.5439093	2.96E-08	2.71E-06
Krt17	183.106864	-0.832391	0.40315052	-2.0647151	0.03894997	0.18833006
Krt80	22.5716281	-0.8325067	0.43198213	-1.9271786	0.05395738	0.2301623
Camkk1	725.741242	-0.8333551	0.29034694	-2.8702046	0.00410206	0.04050234
Gbp9	123.568584	-0.8340302	0.41634212	-2.0032328	0.04515231	0.20609439
Kif18a	5032.05595	-0.8341105	0.1769596	-4.7135644	2.43E-06	0.00011829
Lbh	406.947445	-0.8352519	0.38409281	-2.1746096	0.02965938	0.15817321
Camk2b	2358.90064	-0.8364065	0.1979089	-4.2262197	2.38E-05	0.00076834
Fbxo47	102.899335	-0.8366408	0.36385023	-2.2994098	0.02148168	0.12956991
Mx2	11.6332094	-0.8368523	0.4138473	-2.0221281	0.04316312	0.20028522
9830147E19F	2904.7577	-0.838775	0.19377291	-4.3286492	1.50E-05	0.00052311
Chml	2181.40911	-0.8390833	0.18001603	-4.6611591	3.14E-06	0.00014467

Mybl1	2256.61466	-0.8399223	0.25125069	-3.3429652	0.00082888	0.01281308
Syt7	288.236808	-0.8413612	0.32544954	-2.5852277	0.00973147	0.07593281
Fubp1	18999.4966	-0.8433239	0.20800329	-4.0543778	5.03E-05	0.00139873
Lrrc27	175.705963	-0.8436802	0.33399398	-2.526034	0.01153583	0.0849402
Yes1	19065.2829	-0.8437099	0.22404216	-3.7658534	0.00016598	0.00368213
Dsp	1143.78538	-0.844857	0.37977147	-2.2246457	0.02610503	0.14613366
Plk4	4285.88832	-0.8448999	0.19479672	-4.3373416	1.44E-05	0.00050644
Epm2a	80.6713886	-0.8453804	0.37479244	-2.2555963	0.02409592	0.13919603
Cenpe	9457.11324	-0.8474864	0.21355802	-3.9684132	7.24E-05	0.00188785
Fam183b	92.0452561	-0.8475661	0.37908087	-2.2358452	0.02536192	0.14367149
Fgr	157.362344	-0.8476747	0.28066724	-3.0202123	0.00252598	0.02877761
Rapgef1	267.993025	-0.8478401	0.40692605	-2.0835239	0.0372035	0.18285448
Pcsk4	64.3885307	-0.8478885	0.34651097	-2.4469313	0.01440783	0.09900847
Lnx1	204.268397	-0.8480781	0.3953326	-2.1452267	0.03193472	0.1663151
Gatsl3	2692.18631	-0.8481047	0.17413374	-4.8704214	1.11E-06	6.12E-05
Tfap2a	316.55831	-0.8491772	0.39198315	-2.1663614	0.03028358	0.16034729
Jag1	1725.13264	-0.8495722	0.28681275	-2.9621145	0.00305534	0.03314913
Fam83g	178.353186	-0.8499917	0.34052086	-2.4961517	0.01255489	0.08989
Elavl2	3884.59901	-0.8507696	0.22858556	-3.7218871	0.00019774	0.0042473
Gm10046	17.2952779	-0.8516817	0.42660404	-1.9964219	NA	NA
Lbr	17112.9487	-0.8518521	0.15745211	-5.4102299	6.29E-08	5.12E-06
Acot3	27.3926788	-0.8527445	0.40850032	-2.0875002	0.03684294	0.18223429
Gng7	254.01957	-0.8536153	0.25160598	-3.3926671	0.00069216	0.01115413
Tcf24	474.212951	-0.8539794	0.33176666	-2.5740364	0.01005197	0.07777025
Gpc3	3033.5324	-0.8543437	0.22763496	-3.7531305	0.00017464	0.0038305
Mpst	1299.62003	-0.8563026	0.21991656	-3.8937611	9.87E-05	0.0024285
Loxhd1	14.7115542	-0.857073	0.43226222	-1.9827618	0.04739405	0.21227674
Serinc5	854.00706	-0.85893	0.24840366	-3.4577995	0.00054461	0.00924426
Calr3	222.976899	-0.8601958	0.28689873	-2.998256	0.00271529	0.03037809
Wdr86	213.111152	-0.8617086	0.4003901	-2.1521726	0.03138377	0.16438159
Zdhhc13	2819.09622	-0.8628857	0.17673709	-4.8823124	1.05E-06	5.82E-05
Casc5	4104.1641	-0.8630863	0.23845761	-3.6194539	0.00029523	0.00577491
Ceacam1	551.729244	-0.8633669	0.24144456	-3.5758391	0.00034911	0.00658646
Rora	135.189686	-0.8635816	0.30010352	-2.8776125	0.00400697	0.03991826
Cilp	30.3376159	-0.863793	0.42100525	-2.0517394	NA	NA
Gad1	191.521596	-0.8638246	0.38899408	-2.2206625	0.02637383	0.14678734
D8Ertd82e	602.283891	-0.866093	0.43195672	-2.0050458	0.04495815	0.20548551
Ttc25	871.759403	-0.8680035	0.35995438	-2.4114264	0.01589026	0.10570239
Tmem121	203.637636	-0.8680597	0.29475923	-2.9449787	0.00322977	0.03456719
Rbl1	2783.53595	-0.8700942	0.20375958	-4.2702	1.95E-05	0.00065034
Ept1	1687.07373	-0.8718726	0.36588527	-2.3829125	0.01717628	0.11148091

P2ry2	286.766434	-0.872024	0.42246418	-2.0641371	0.03900472	0.18837864
Usp26	542.176929	-0.8723468	0.42399041	-2.0574681	0.03964122	0.19014823
Amn1	342.404695	-0.8730122	0.2580869	-3.3826289	0.00071796	0.01149838
Gm5141	534.693891	-0.8748076	0.18650925	-4.6904249	2.73E-06	0.00012966
Pgpep1l	120.05682	-0.8758565	0.4321824	-2.0265898	NA	NA
Cdca2	7051.0362	-0.8785866	0.18007467	-4.8790129	1.07E-06	5.90E-05
Pstpip2	345.965115	-0.8786081	0.30209407	-2.9083925	0.00363292	0.03738951
Slc52a3	952.956371	-0.8791679	0.33221044	-2.6464185	0.00813491	0.06739797
Prom2	22.2135592	-0.8794918	0.42359888	-2.0762372	0.03787202	0.1850873
Paqr7	152.78441	-0.8797668	0.27680516	-3.1782891	0.00148147	0.0194745
Sapcd1	207.376496	-0.8800532	0.34528514	-2.5487724	0.01081028	0.08133077
Mx1	29.5989969	-0.8804596	0.41462881	-2.1234886	0.03371293	0.17199324
Gm3414	244.62692	-0.8845136	0.30441861	-2.9055832	0.00366569	0.03760238
Pold2	5854.05351	-0.8847577	0.2200578	-4.0205697	5.81E-05	0.00156474
Fnip1	4941.814	-0.8847751	0.22881677	-3.8667405	0.0001103	0.00265111
Ezh1	2922.73799	-0.8852051	0.1890337	-4.6827899	2.83E-06	0.00013256
Fam83b	92.0460835	-0.8852418	0.42528619	-2.0815203	NA	NA
Stard4	3079.43915	-0.8860037	0.24796189	-3.5731447	0.00035272	0.00662114
Cdc42ep5	822.163937	-0.8874927	0.21625574	-4.1039037	4.06E-05	0.00118778
Prodh	820.7924	-0.8875753	0.22996669	-3.8595819	0.00011358	0.00269797
Rac3	399.301284	-0.8876915	0.35565407	-2.4959407	0.01256236	0.08990209
Ttc29	59.0192317	-0.8879546	0.35357517	-2.5113601	0.01202669	0.08747547
Cnpy1	1202.59637	-0.8885216	0.21890901	-4.0588629	4.93E-05	0.00138172
Tac2	71.7582238	-0.8887367	0.37903432	-2.3447395	0.01904038	0.11953853
Des	534.870673	-0.8888169	0.28101943	-3.1628308	0.00156243	0.02016379
Klk13	43.2788209	-0.8903911	0.41233355	-2.1593953	0.03081951	0.16216525
Slc37a1	666.595858	-0.8907835	0.20177652	-4.4147035	1.01E-05	0.00037905
Onecut2	83.3089297	-0.8913651	0.35176746	-2.5339613	0.01127812	0.083927
Cpxm2	61.4035806	-0.8923138	0.42001873	-2.1244619	0.03363154	0.17170192
Pla2g2f	66.1339291	-0.8927686	0.38592407	-2.3133272	0.02070466	0.12673885
Gbas	3035.21765	-0.8934517	0.22317834	-4.0033084	6.25E-05	0.00166044
Dlgap5	9000.5229	-0.8937654	0.15231298	-5.8679532	4.41E-09	4.90E-07
Mcmdc2	349.710044	-0.8955566	0.25735285	-3.4798784	0.00050164	0.0086678
Spn	102.703707	-0.89795	0.36723222	-2.4451831	0.01447786	0.09927039
Emp2	622.336127	-0.8986699	0.27106708	-3.3153046	0.00091543	0.01368837
Fam46b	205.659181	-0.8989639	0.26003929	-3.4570311	0.00054616	0.00925203
Crip1	1484.35103	-0.8994751	0.33471202	-2.6873106	0.00720299	0.06120971
Plcd3	1121.98098	-0.8995431	0.20968444	-4.2899849	1.79E-05	0.00060276
Cd109	801.020855	-0.90099	0.38747306	-2.3252971	NA	NA
Xpnpep2	109.985155	-0.90303	0.42988105	-2.1006508	NA	NA
Elavl3	145.992699	-0.9037415	0.39244318	-2.3028596	0.02128674	0.12914425

5830418K08F	6496.19487	-0.9042727	0.18233736	-4.9593383	7.07E-07	4.15E-05
Kif11	14645.393	-0.9048262	0.18155796	-4.9836768	6.24E-07	3.74E-05
Gyk	1994.25306	-0.9048294	0.25857604	-3.4992778	0.00046652	0.0082348
Fah	1181.75893	-0.9053882	0.29929913	-3.025028	0.0024861	0.02844174
Tmem213	15.7005124	-0.9056105	0.41479507	-2.183272	NA	NA
Kiss1	342.267107	-0.9057253	0.39809495	-2.275149	0.02289699	0.13501674
Gas6	1589.50221	-0.9062322	0.20838727	-4.3487887	1.37E-05	0.00048826
Fzd7	1770.49208	-0.9082705	0.33110624	-2.7431393	0.00608549	0.05426342
Fam109b	104.549111	-0.9088499	0.30606774	-2.9694402	0.00298343	0.03269577
Tmc3	35.6355253	-0.9097289	0.4193623	-2.169315	0.03005878	0.15962936
Smad3	1973.09193	-0.9103495	0.31919354	-2.8520298	0.0043441	0.04225868
E130018N17I	157.417996	-0.9117809	0.30083976	-3.030786	0.00243918	0.0281831
1700018B08F	41.5748537	-0.9130707	0.39763073	-2.2962779	0.02166	0.13018763
Aspm	5775.32863	-0.9134682	0.21851589	-4.1803284	2.91E-05	0.00090898
Tst	1164.8633	-0.9165954	0.29072706	-3.1527693	0.0016173	0.02073418
Slc47a1	179.871923	-0.9166215	0.30431429	-3.0120882	0.00259457	0.02930383
Pfkip	26432.8247	-0.9178245	0.26415197	-3.4746077	0.0005116	0.00881053
Ddr2	3113.5349	-0.9182409	0.25173129	-3.6477027	0.0002646	0.00529566
D430042O09	623.666915	-0.9183225	0.22633852	-4.0572967	4.96E-05	0.00138602
Arhgef28	58.9704931	-0.9183983	0.41384087	-2.2192064	0.02647269	0.14713252
Dll1	21.2997205	-0.9185408	0.43045257	-2.1338954	0.03285134	0.1692187
Stx3	4922.3485	-0.9186392	0.17436313	-5.2685401	1.38E-07	1.01E-05
Psd2	60.1702546	-0.9189658	0.40218586	-2.2849282	0.02231704	0.13256611
Itgal	608.530571	-0.91973	0.18889084	-4.8691087	1.12E-06	6.14E-05
Ankrd13d	303.566155	-0.9201441	0.27431228	-3.3543671	0.00079547	0.01243699
Tcl1	6504.71157	-0.9235749	0.23741824	-3.8900757	0.00010021	0.00244649
Tmem220	62.5252028	-0.9237716	0.33659727	-2.7444418	0.00606139	0.0541728
Ppapdc3	66.1711514	-0.924783	0.38486272	-2.4028905	0.01626606	0.10742776
Pcsk9	263.369568	-0.9248114	0.35772805	-2.5852359	0.00973124	0.07593281
Crxos	6514.88957	-0.9248215	0.27428347	-3.3717725	0.00074686	0.01184554
Nusap1	13454.6394	-0.9262214	0.15533436	-5.9627594	2.48E-09	2.97E-07
Bmp6	48.7512587	-0.9262498	0.43197763	-2.1442079	0.03201623	0.1664297
Mis18bp1	8908.78701	-0.9279181	0.1754578	-5.2885544	1.23E-07	9.34E-06
AF529169	9.16937434	-0.9287933	0.42358786	-2.1926817	0.02833032	0.15431342
Pdzrn3	579.991897	-0.9297312	0.30180559	-3.0805633	0.00206609	0.02498432
Slc39a11	4131.16365	-0.931284	0.28133338	-3.3102504	0.00093213	0.013873
Pfkm	3686.27185	-0.9326119	0.1749623	-5.3303595	9.80E-08	7.51E-06
Tnfrsf22	694.347821	-0.9335142	0.20869295	-4.4731467	7.71E-06	0.00030192
Nrp2	591.326824	-0.9342084	0.43047358	-2.1701876	NA	NA
Gm2381	3865.55773	-0.9360507	0.24281218	-3.85504	0.00011571	0.00274301
Thy1	203.919749	-0.9361657	0.32045811	-2.9213357	0.00348534	0.0362788

P2rx6	11.1455046	-0.936647	0.43149534	-2.1707001	0.02995385	0.15925205
Slc16a12	16.5224696	-0.9370163	0.42917137	-2.183315	NA	NA
Ctnnd2	890.560374	-0.9372527	0.25143214	-3.7276566	0.00019327	0.00417433
Ptchd1	26.4113033	-0.9375999	0.41822132	-2.2418749	0.02496946	0.14236991
Khk	152.567064	-0.9398382	0.36184143	-2.597376	0.0093939	0.07389206
Mal	964.883089	-0.9399016	0.37527944	-2.5045379	0.01226115	0.08852047
Hormad1	3140.75973	-0.9402101	0.29674655	-3.1683943	0.00153283	0.01985579
Tnfaip8l1	152.854964	-0.9407998	0.3082762	-3.051808	0.00227468	0.02683875
Adamts15	82.9656552	-0.9414973	0.32767908	-2.8732299	0.00406298	0.04019838
Gna15	754.047334	-0.9424415	0.20155223	-4.6759173	2.93E-06	0.00013585
Zfp81	973.086449	-0.9428799	0.21518438	-4.3817303	1.18E-05	0.00042981
Ptch1	2601.3798	-0.9428852	0.27064523	-3.4838418	0.00049427	0.00855948
Xkr5	887.241472	-0.943744	0.23137356	-4.0788757	4.53E-05	0.00130082
Hspb6	307.54925	-0.9446621	0.21389786	-4.4164168	1.00E-05	0.00037786
C4b	38.9861282	-0.9448082	0.4197759	-2.2507443	0.02440174	0.140389
A530054K11f	1914.49817	-0.9463508	0.22965611	-4.1207296	3.78E-05	0.00111446
Ckap5	15835.1202	-0.9473319	0.1732393	-5.4683432	4.54E-08	3.92E-06
G2e3	4779.76035	-0.9476744	0.19742084	-4.8002753	1.58E-06	8.21E-05
Ttk	5709.09519	-0.9477224	0.15228891	-6.2231872	4.87E-10	6.80E-08
Nmnat2	2585.07619	-0.947994	0.27851857	-3.4037012	0.00066479	0.01084808
Dclk2	2946.85281	-0.9483538	0.24559898	-3.8613915	0.00011274	0.00269319
Bub1	13791.0926	-0.9494159	0.21204233	-4.477483	7.55E-06	0.00029963
Ggt6	92.5593399	-0.9507033	0.42248098	-2.2502865	NA	NA
Tceanc	794.961628	-0.9507823	0.21139694	-4.4976159	6.87E-06	0.00027472
Nhs	62.5555886	-0.9511686	0.37623864	-2.5280991	0.0114682	0.08472551
Aurkb	4299.45322	-0.9516209	0.15676081	-6.070528	1.27E-09	1.68E-07
Poln	30.0189352	-0.9526302	0.40001201	-2.381504	0.0172421	0.11167511
Gpr113	80.5009518	-0.9528691	0.38233143	-2.4922593	0.01269333	0.09046471
Rragb	1637.27554	-0.9532545	0.23088139	-4.1287628	3.65E-05	0.00108655
Tnfrsf26	16.6511765	-0.954202	0.43174793	-2.2100905	0.02709888	0.14948249
Esrp1	109.201656	-0.9550141	0.40895624	-2.3352476	0.01953049	0.12168215
Tnfaip8l3	21.7033312	-0.9553943	0.43220692	-2.2105021	0.02707033	0.14943938
Mxra8	348.754209	-0.9555905	0.24822765	-3.8496536	0.00011828	0.00279552
Scml4	44.1120531	-0.9559565	0.37880427	-2.5236159	0.01161548	0.08532466
Fat2	138.423996	-0.9560994	0.39547663	-2.4175876	0.01562377	0.104332
A330048O09	70.8665766	-0.9563794	0.3763032	-2.5415127	0.01103739	0.08256012
Zfp85	463.555141	-0.9564394	0.22214407	-4.3054915	1.67E-05	0.0005707
Prr15l	424.20774	-0.9584135	0.26989768	-3.5510252	0.00038373	0.00706206
Mtap7d3	95.2295729	-0.9594472	0.32332801	-2.9674112	0.00300319	0.0328429
Slc46a3	188.541011	-0.9617625	0.36569516	-2.629957	0.00853957	0.06949179
4930461G14l	561.224616	-0.9626772	0.29120744	-3.3058127	0.00094701	0.01398576

Dkk3	1070.80761	-0.9632346	0.26352713	-3.655163	0.00025702	0.00517733
Liph	2878.81922	-0.9637551	0.29976279	-3.2150593	0.00130418	0.01772972
Hspb2	52.0151251	-0.9683477	0.42074084	-2.3015302	0.02136168	0.12925061
BC055111	174.953002	-0.9684377	0.26432648	-3.6637939	0.00024851	0.00504508
Copz2	1402.7627	-0.9687014	0.43148481	-2.2450417	0.02476546	0.1416891
Msra	632.545407	-0.9705725	0.1733429	-5.5991473	2.15E-08	2.02E-06
Ifi30	2710.31707	-0.970805	0.24182809	-4.0144427	5.96E-05	0.00158941
Mpv17l	3041.11117	-0.9714879	0.34177656	-2.842465	0.00447661	0.04320681
Zdhhc1	146.395168	-0.9732322	0.2713184	-3.5870481	0.00033444	0.00641297
Cbs	3223.40288	-0.9755591	0.33146541	-2.94317	0.0032487	0.03461858
Gna14	104.67867	-0.9759292	0.43164819	-2.2609366	0.02376318	0.13815664
Zscan5b	792.242106	-0.976261	0.43180045	-2.2609078	0.02376497	0.13815664
Fxyd6	4630.12645	-0.9768626	0.42358135	-2.3061983	NA	NA
Cdkn1b	3090.39165	-0.9778046	0.18798618	-5.2014705	1.98E-07	1.37E-05
Dcstamp	398.078944	-0.9779076	0.36015764	-2.715221	0.00662316	0.05773358
Arl5c	350.206516	-0.9788369	0.37275427	-2.6259576	0.00864056	0.070057
Cd7	56.757265	-0.9792676	0.40108863	-2.4415241	0.01462541	0.09992959
Lhpp	1865.98954	-0.9793523	0.18229395	-5.3723799	7.77E-08	6.17E-06
Ldhb	18597.0894	-0.9793891	0.32484545	-3.0149388	0.00257031	0.0291121
Kif15	8191.95237	-0.9796001	0.17922653	-5.4657094	4.61E-08	3.94E-06
Plbd1	412.102077	-0.9806038	0.40970631	-2.3934311	0.01669162	0.10938531
Rassf6	30.0947112	-0.9808588	0.4309249	-2.276171	0.02283577	0.13492368
Lzts1	44.1773831	-0.9826584	0.41820889	-2.3496833	0.01878939	0.11844095
Fbxl2	445.604053	-0.9826893	0.25879389	-3.7971888	0.00014635	0.00336164
Nes	2461.95129	-0.9837689	0.25852956	-3.8052475	0.00014166	0.00327339
Abcc1	5816.76083	-0.9843037	0.19360627	-5.0840485	3.69E-07	2.36E-05
Kcna2	47.756859	-0.9878191	0.41875769	-2.3589275	0.01832783	0.11661872
Tspo2	222.654659	-0.9885975	0.41653231	-2.3733993	0.0176252	0.11358867
Izumo1	48.1442307	-0.9902427	0.43111969	-2.296909	0.02162396	0.13008842
Usp28	9640.78366	-0.9906118	0.1819137	-5.4455042	5.17E-08	4.32E-06
Calb2	1194.397	-0.9915493	0.38469425	-2.5774997	0.0099518	0.07718724
AA987161	1993.18331	-0.992959	0.18778258	-5.2878121	1.24E-07	9.34E-06
Boll	199.439479	-0.9942365	0.30976008	-3.2096985	0.00132874	0.01793687
Slc29a3	2012.22208	-0.9944503	0.24465855	-4.0646456	4.81E-05	0.00135523
Upk3a	19.0349548	-0.9946277	0.42335875	-2.3493731	0.01880505	0.11849163
Fam46c	132.22455	-0.9965986	0.31188504	-3.1954037	0.00139635	0.01867128
Gm10768	58.6585227	-0.9968363	0.42898766	-2.3236946	NA	NA
Agmat	14.9390169	-0.9970227	0.42966354	-2.3204731	0.0203153	0.12525197
Thsd4	49.6572299	-0.9975567	0.41196949	-2.4214333	0.01545944	0.10349545
Hs3st3b1	524.542258	-0.9983235	0.34155699	-2.9228606	0.00346832	0.03616167
Napsa	82.1356381	-0.9998268	0.38488299	-2.5977423	0.00938389	0.07388771

Kng1	35.5909421	-1.0002411	0.41299647	-2.4219119	0.01543909	0.10346038
Kif14	3813.64339	-1.0003409	0.20400112	-4.903605	9.41E-07	5.34E-05
Jph1	125.327302	-1.0007732	0.41255385	-2.4258	0.01527468	0.10269633
Bnip3	3724.63354	-1.0025753	0.42997417	-2.3317105	0.01971592	0.1225919
Asb9	52.7189741	-1.0030456	0.40708703	-2.4639586	0.0137412	0.09547055
Mgst3	571.911057	-1.0043664	0.34526644	-2.9089603	0.00362633	0.03735909
Dhx58	107.386472	-1.0084872	0.37525215	-2.6874921	0.00719908	0.06120971
Tgm3	163.394528	-1.0085558	0.39030783	-2.5840008	0.00976616	0.07612706
Cd19	28.3894853	-1.0091659	0.4284608	-2.3553284	NA	NA
Depdc1a	810.993274	-1.0099055	0.22217878	-4.5454631	5.48E-06	0.00022671
Igfbpl1	97.414011	-1.0101931	0.37070013	-2.725095	0.0064283	0.05629501
4930558J18R	234.073751	-1.0110953	0.2342296	-4.3166847	1.58E-05	0.00054736
Cnn2	1428.92723	-1.0120678	0.30642321	-3.3028433	0.0009571	0.01407758
Ltb	86.0699848	-1.0137079	0.37571547	-2.6980733	0.00697421	0.05982125
Apbb1	1030.83941	-1.0137259	0.22370835	-4.5314619	5.86E-06	0.00023909
1700028B04f	37.6516275	-1.01611	0.39367945	-2.5810594	0.00984976	0.07662515
Gas2l3	2639.33563	-1.0177517	0.19523376	-5.2129906	1.86E-07	1.30E-05
A330021E22f	132.49118	-1.0180294	0.30082882	-3.3840821	0.00071417	0.01144949
Zfp872	31.0173101	-1.0186662	0.43226799	-2.3565616	0.01844501	0.1170291
Syne3	148.574199	-1.018725	0.29646112	-3.4362854	0.00058975	0.00987211
Ccdc66	1895.37789	-1.0191078	0.19067353	-5.3447784	9.05E-08	7.00E-06
Acy3	252.526981	-1.0196454	0.33508357	-3.0429584	0.00234265	0.02735023
Pdcl2	779.403838	-1.0199201	0.23807652	-4.2840012	1.84E-05	0.00061787
Slc9a3r2	1584.61365	-1.0204886	0.20350973	-5.0144463	5.32E-07	3.24E-05
Pbx1	749.460379	-1.0216892	0.22241774	-4.5935597	4.36E-06	0.00018898
Chmp4c	3879.67655	-1.0247626	0.16570888	-6.1841137	6.25E-10	8.59E-08
Il12rb1	61.2010268	-1.0285378	0.42796699	-2.4033111	0.01624736	0.10742462
Ehhadh	860.57397	-1.0287075	0.28060435	-3.6660428	0.00024633	0.00500748
Trpc5os	56.8202993	-1.0294254	0.38931515	-2.6441957	0.00818853	0.06769795
Pap1	89.1152294	-1.0316012	0.43108143	-2.3930542	0.01670877	0.10943237
Lipa	609.870065	-1.0318293	0.26286917	-3.9252578	8.66E-05	0.00218008
Elavl4	97.4510537	-1.0320733	0.3108144	-3.3205454	0.00089842	0.01352497
Kcnh6	40.3019691	-1.0328179	0.36888578	-2.7998311	0.00511293	0.0477545
Ndr1	1382.11878	-1.0332258	0.29361197	-3.5190181	0.00043315	0.00777814
Ttpa	1547.48409	-1.0384061	0.27379109	-3.792695	0.00014902	0.00340298
Aldh1l1	3513.24517	-1.0410235	0.25189775	-4.1327223	3.58E-05	0.00107416
Sema4a	354.781733	-1.0436912	0.24720768	-4.2219205	2.42E-05	0.00077829
C8b	33.7000817	-1.044144	0.42529852	-2.4550849	0.01408513	0.09739345
Sec14l5	41.6798476	-1.0449293	0.42665698	-2.4491087	0.01432102	0.09845545
Hjurp	732.759343	-1.0462243	0.27610022	-3.7892919	0.00015108	0.0034348
Slc1a1	2635.00481	-1.046581	0.17739715	-5.8996496	3.64E-09	4.10E-07

Cadps	77.0530122	-1.0472954	0.37864711	-2.7658877	0.00567681	0.05171649
Anxa5	815.926762	-1.0473074	0.28472891	-3.6782616	0.00023483	0.00481771
Gfod1	200.444866	-1.0485363	0.30529891	-3.434458	0.00059374	0.00991756
Gfra1	33.5548894	-1.0494668	0.43168966	-2.4310676	0.0150544	0.10169897
Nol3	219.320515	-1.0500781	0.35336349	-2.9716654	0.00296189	0.03252852
Padi3	329.788864	-1.0505782	0.38649071	-2.7182495	0.00656283	0.05730804
Zfp442	287.609141	-1.0514839	0.29007652	-3.6248499	0.00028913	0.00567708
Fam83f	15.2789788	-1.0540434	0.43007089	-2.4508597	0.01425155	0.09815139
Lym7	137.21086	-1.0550003	0.38892395	-2.7126134	0.00667549	0.05815721
Armcx1	3100.72214	-1.0590581	0.25788523	-4.1067032	4.01E-05	0.00117984
Tbc1d9	1058.35739	-1.0615293	0.25641744	-4.1398483	3.48E-05	0.00104536
Rsph1	193.839829	-1.0623325	0.34605514	-3.0698361	0.00214176	0.02564015
Stac2	736.455329	-1.0625264	0.2703597	-3.9300474	8.49E-05	0.00215806
Gstp2	2459.84344	-1.0634245	0.29680882	-3.5828601	0.00033985	0.00648472
Zc3h6	276.511928	-1.0652476	0.37426106	-2.8462689	0.00442348	0.04280621
Fes	264.141986	-1.0717223	0.26173613	-4.094667	4.23E-05	0.00122889
Cers4	1270.32893	-1.0728929	0.43223904	-2.4821749	0.01305831	0.09230448
Kif20b	12550.9021	-1.0731138	0.19027953	-5.6396702	1.70E-08	1.67E-06
Mybpc2	355.804223	-1.0742593	0.38815438	-2.7676084	0.00564693	0.05158766
Zmynd10	19.514958	-1.0776592	0.43099389	-2.5004049	0.01240514	0.08917065
Slc16a3	3457.45223	-1.0812223	0.36736646	-2.943171	0.00324869	0.03461858
Kcnn1	332.94681	-1.0821192	0.40592791	-2.6657916	0.00768073	0.06438977
Foxr2	81.7641355	-1.0822039	0.34344377	-3.1510367	0.00162692	0.02080612
Clcn6	2095.42326	-1.082564	0.22521836	-4.8067308	1.53E-06	8.06E-05
Vax2	403.094886	-1.0842365	0.31519996	-3.4398369	0.00058206	0.0097645
Osm	1152.10206	-1.0856128	0.25773791	-4.2120805	2.53E-05	0.00080352
Klk1	292.431081	-1.0865538	0.30342502	-3.5809632	0.00034233	0.00650803
Fam163b	23.0710532	-1.0869401	0.43209448	-2.5155149	0.01188587	0.08670295
Dtna	151.478421	-1.0870011	0.28722107	-3.784545	0.00015399	0.0034671
Mmel1	55.7144957	-1.0870785	0.37361668	-2.909609	0.00361881	0.03734316
Zfp39	648.135033	-1.0888083	0.20596405	-5.2863997	1.25E-07	9.37E-06
Oas1c	281.025447	-1.0944265	0.31603194	-3.4630249	0.00053414	0.00913234
Spata21	95.2477766	-1.0951795	0.42671526	-2.5665347	NA	NA
Bahcc1	2838.31847	-1.0962149	0.22920985	-4.7825821	1.73E-06	8.84E-05
Myo1a	711.42046	-1.0965362	0.29113546	-3.7664124	0.00016561	0.00367915
Zfp764	220.09921	-1.0969979	0.29420795	-3.728648	0.00019251	0.00416373
Gng2	2673.90502	-1.0976491	0.20483814	-5.3586168	8.39E-08	6.55E-06
Paqr5	35.2811978	-1.0987833	0.42659343	-2.5757155	0.01000329	0.07750931
Sgol2	10611.6021	-1.1015374	0.15973242	-6.8961414	5.34E-12	1.15E-09
Pir	2122.24435	-1.1019205	0.19091051	-5.7719216	7.84E-09	8.13E-07
Cyth3	749.517973	-1.1036476	0.29293487	-3.7675527	0.00016486	0.00366763

Prlr	53.8481778	-1.1052279	0.43073133	-2.5659334	NA	NA
Top2a	72922.6616	-1.1083264	0.15792752	-7.0179432	2.25E-12	5.31E-10
BC021614	418.858506	-1.1136765	0.27019986	-4.1216769	3.76E-05	0.001112
Ldb3	257.510475	-1.1137624	0.32040174	-3.4761434	0.00050868	0.00876994
Slc36a2	21.3679068	-1.1147219	0.42247521	-2.6385497	0.00832615	0.0682911
AI427809	146.432365	-1.1202099	0.43100929	-2.5990388	0.00934852	0.07382763
Prokr1	18.1927817	-1.1204632	0.43187739	-2.594401	0.00947559	0.07442166
Rtkn2	1291.71356	-1.1224559	0.16437742	-6.8285283	8.58E-12	1.71E-09
Opn3	71.1284866	-1.1226602	0.33273879	-3.3739986	0.00074085	0.01178008
Gpx2	3658.07428	-1.124627	0.2839119	-3.9611829	7.46E-05	0.00193944
Ap1s3	113.405884	-1.1248116	0.35366791	-3.1804176	0.00147063	0.01934836
Cep112	378.532276	-1.1250248	0.22549949	-4.989035	6.07E-07	3.66E-05
Ndufa4l2	243.38541	-1.1264156	0.40838239	-2.7582375	0.0058114	0.05260362
Notum	3760.05594	-1.1275847	0.17117337	-6.5873837	4.48E-11	7.57E-09
Fam57b	57.1148329	-1.1279964	0.38887109	-2.9006949	0.00372336	0.03793677
Aipl1	19.0867663	-1.1296095	0.4292411	-2.6316434	0.0084973	0.06922027
Kcnh8	14.5135736	-1.1307309	0.40664417	-2.7806396	0.00542519	0.05010161
Sat1	5812.97782	-1.1332513	0.25084555	-4.5177252	6.25E-06	0.0002538
Them5	133.043631	-1.1347143	0.29938943	-3.7900947	0.00015059	0.00343376
Car12	106.184702	-1.1360647	0.31761466	-3.5768647	0.00034774	0.00657872
Ciita	31.8991995	-1.1363832	0.43087692	-2.6373731	0.00835509	0.06842022
Lef1	496.216847	-1.1365424	0.42609284	-2.6673587	0.007645	0.06417696
Mpp2	266.23363	-1.1368402	0.34719892	-3.2743195	0.00105917	0.01525104
Diras1	24.7721368	-1.1370894	0.42203532	-2.6942991	0.00705368	0.06030338
Ppp1r3b	699.236601	-1.1434978	0.22199851	-5.1509255	2.59E-07	1.74E-05
Mctp2	147.460967	-1.1440909	0.39668056	-2.8841617	0.00392457	0.03945121
Rcn3	1674.00662	-1.1452917	0.28208327	-4.0601192	4.90E-05	0.00137928
Bnc2	536.866498	-1.1466354	0.27099507	-4.2312038	2.32E-05	0.00075622
Armxc3	66.7422089	-1.1490805	0.32516899	-3.5337948	0.00040964	0.00745064
Rassf4	451.645941	-1.1506733	0.39031624	-2.9480538	0.00319781	0.03427237
4933431E20F	65.1788353	-1.1545191	0.4287734	-2.6926091	0.00708953	0.06057656
Cd6	57.100413	-1.1550083	0.41507751	-2.7826329	0.00539198	0.04988141
Zfp712	315.869568	-1.1558459	0.31735753	-3.6420939	0.00027043	0.00537781
Mfap4	114.96995	-1.1580275	0.37581838	-3.0813488	0.00206065	0.02495731
4933404O12I	1437.67663	-1.1581072	0.22373953	-5.1761403	2.27E-07	1.55E-05
Zfp385c	38.3200946	-1.1611551	0.38386864	-3.0248762	0.00248735	0.02844174
Sema6a	152.773193	-1.1622728	0.38159415	-3.0458349	0.00232035	0.02723305
Steap2	563.237046	-1.1637592	0.28959069	-4.0186348	5.85E-05	0.00156678
Mki67	13429.9884	-1.1645791	0.2070168	-5.6255296	1.85E-08	1.78E-06
2810408A11f	439.90286	-1.1647727	0.3331658	-3.4960753	0.00047216	0.00828723
B3galnt1	329.463564	-1.1679841	0.26099183	-4.475175	7.63E-06	0.00029986

Vpreb2	20.1508785	-1.1700635	0.42670877	-2.7420659	0.00610541	0.05439198
Rasgrp1	1508.17931	-1.1701769	0.26741515	-4.3758812	1.21E-05	0.00044046
Ttyh1	936.293172	-1.1704046	0.2299255	-5.0903646	3.57E-07	2.30E-05
Gldc	13531.6308	-1.1706636	0.23623213	-4.9555645	7.21E-07	4.22E-05
Ninj1	1199.44323	-1.1714377	0.25563827	-4.5824035	4.60E-06	0.00019675
Acss1	3351.68597	-1.177471	0.23882937	-4.9301768	8.22E-07	4.73E-05
Ccno	114.203778	-1.1781057	0.32951439	-3.5752785	0.00034986	0.00658668
Kcns3	560.598007	-1.1835099	0.30507929	-3.8793519	0.00010474	0.00253303
Kbtbd11	1155.41905	-1.1847448	0.39677143	-2.9859628	0.00282687	0.03139234
Lefty2	10157.7353	-1.1848231	0.42776906	-2.7697728	0.00560954	0.05134431
Camta1	1617.07102	-1.185508	0.2424938	-4.8888179	1.01E-06	5.67E-05
Plxdc1	532.432282	-1.1892518	0.32672679	-3.6398968	0.00027275	0.00541007
C1s2	35.5758463	-1.189275	0.43138612	-2.756869	NA	NA
Tcl1b2	23.3212319	-1.1899812	0.41111392	-2.894529	0.00379728	0.03844497
Ccdc136	1963.6105	-1.1913474	0.33346336	-3.5726486	0.00035339	0.00662114
Pabpc4l	148.85565	-1.1949278	0.3354393	-3.5622773	0.00036765	0.00685534
Ifngr2	303.333259	-1.1979822	0.26203958	-4.5717603	4.84E-06	0.00020438
Zfp273	508.472715	-1.1986357	0.28578013	-4.1942585	2.74E-05	0.00086007
Ttc12	966.04752	-1.1987134	0.24969117	-4.8007839	1.58E-06	8.21E-05
Rnft2	309.16566	-1.2004075	0.3026686	-3.9660785	7.31E-05	0.00190323
Pgap1	4191.96321	-1.2043998	0.27848742	-4.3247907	1.53E-05	0.00052997
Cdh3	1963.67853	-1.205559	0.33622251	-3.5855986	0.00033631	0.00644076
Nlrp4a	411.113227	-1.2090621	0.33681438	-3.5896986	0.00033106	0.00635595
Rln3	92.883116	-1.2097675	0.31885872	-3.794055	0.00014821	0.00339435
Acbd4	783.937745	-1.2102302	0.28608147	-4.230369	2.33E-05	0.00075745
Cacng5	28.2237194	-1.213911	0.42961162	-2.8256009	0.0047192	0.04507882
Cyp2s1	627.517899	-1.2158631	0.36445943	-3.3360724	0.00084971	0.0130314
Matn1	133.339683	-1.2159281	0.36389344	-3.34144	0.00083345	0.01284075
Rnf182	143.579162	-1.216527	0.30121975	-4.0386695	5.38E-05	0.00147174
Peli3	130.94672	-1.2197757	0.29208834	-4.1760505	2.97E-05	0.00091703
Klf17	24.4593038	-1.2204725	0.42043257	-2.9028971	0.00369728	0.03777187
1190005I06R	295.744992	-1.2248324	0.31961152	-3.8322536	0.00012697	0.0029693
Eppk1	283.606608	-1.2256335	0.38759197	-3.1621747	0.00156596	0.02017579
Trim61	40.6314674	-1.226016	0.41618093	-2.9458726	0.00322045	0.03449119
Sec14l4	307.006728	-1.2267583	0.31946359	-3.8400569	0.00012301	0.00289228
9430041J12R	25.4393487	-1.2312634	0.40442664	-3.0444667	0.00233093	0.02730362
Hdac7	1030.59711	-1.2348413	0.2975713	-4.1497326	3.33E-05	0.00101497
Sulf1	2681.90551	-1.2353732	0.24618571	-5.0180539	5.22E-07	3.22E-05
Lima1	19221.0708	-1.2380195	0.19633292	-6.3057153	2.87E-10	4.29E-08
Hmmr	14220.2506	-1.2390809	0.1740146	-7.1205573	1.07E-12	2.70E-10
Ubash3a	650.619906	-1.2401513	0.22442892	-5.5258087	3.28E-08	2.98E-06

Gstm5	286.612793	-1.2447461	0.38675706	-3.2184185	0.001289	0.01758349
Mb	48.0670826	-1.2468159	0.39286819	-3.173624	0.00150549	0.0196417
Siglec5	195.45247	-1.2502311	0.37235006	-3.3576766	0.00078601	0.01232379
Dio3	260.426148	-1.256752	0.4257665	-2.9517399	0.00315989	0.03395953
Hck	1031.05091	-1.2636945	0.38202064	-3.307922	0.00093991	0.0139604
Axl	355.990817	-1.2660234	0.37963912	-3.3348077	0.00085358	0.01307642
Sacs	150.413953	-1.2723493	0.36906598	-3.4474847	0.00056583	0.00952301
F730043M19	31.8015941	-1.2746105	0.39326441	-3.2411032	0.00119068	0.01666516
Kctd12b	46.9234109	-1.2759929	0.42056701	-3.0339825	0.00241348	0.02794646
Tgfb1	366.982183	-1.2776882	0.30959664	-4.1269447	3.68E-05	0.00109307
Ephx1	1663.20376	-1.2810832	0.20581483	-6.2244456	4.83E-10	6.80E-08
Rab44	76.0491551	-1.2827109	0.37790698	-3.3942503	0.00068817	0.01111671
Ebf1	582.955118	-1.2828517	0.26877031	-4.773041	1.81E-06	9.15E-05
Ccne2	1227.94051	-1.2840556	0.17877351	-7.182583	6.84E-13	1.80E-10
Pde2a	82.7205694	-1.2847874	0.29997685	-4.2829553	1.84E-05	0.00061944
A930015D03	132.265685	-1.285942	0.40470598	-3.1774721	0.00148565	0.01951296
Lmo1	227.131168	-1.2871685	0.26939874	-4.7779307	1.77E-06	8.97E-05
Tuba8	24.0859792	-1.2874836	0.41992824	-3.0659611	0.00216972	0.02590952
Cort	34.7419946	-1.2881519	0.42247742	-3.0490431	0.00229572	0.02700504
Dpysl5	932.797898	-1.2942742	0.31255523	-4.1409456	3.46E-05	0.00104239
Muc2	21.9559378	-1.2966039	0.42377948	-3.0596193	0.00221618	0.02634646
Gjb1	57.8595878	-1.3017534	0.43200252	-3.0133005	0.00258423	0.02924843
Cdhr1	1250.18655	-1.3034199	0.28693474	-4.5425656	5.56E-06	0.00022863
Gm5801	141.979719	-1.304096	0.43173054	-3.0206248	0.00252254	0.02877496
Abcc8	65.7779095	-1.3124716	0.40818026	-3.2154215	0.00130253	0.01772972
Pdzrn4	240.49617	-1.3127918	0.35402295	-3.708211	0.00020873	0.00444041
Serpinb1a	1930.47771	-1.3143025	0.23942654	-5.4893769	4.03E-08	3.52E-06
Serpinb6b	99.9928512	-1.3182061	0.35863019	-3.6756696	0.00023723	0.00485915
Cenpf	10816.3655	-1.3202856	0.22977502	-5.7459925	9.14E-09	9.29E-07
Syt4	28.3381204	-1.3217886	0.42280542	-3.1262338	0.00177061	0.02222333
Fcgr3	30.0639828	-1.3284561	0.42868345	-3.0989208	0.00194227	0.0239526
Esco2	12324.0556	-1.3288729	0.16488551	-8.0593672	7.67E-16	4.26E-13
Ccdc170	229.611459	-1.3314901	0.30105475	-4.4227506	9.75E-06	0.00037053
Pla1a	1593.71354	-1.3318557	0.36601828	-3.6387682	0.00027395	0.00542691
Mfng	317.284025	-1.334409	0.26370155	-5.0603	4.19E-07	2.62E-05
Abhd8	574.53654	-1.3350877	0.20944903	-6.3742842	1.84E-10	2.86E-08
Ska1	1638.23388	-1.3352235	0.20599254	-6.4819021	9.06E-11	1.50E-08
Akr1b8	475.950285	-1.3401478	0.35663262	-3.7577825	0.00017143	0.0037803
C330021F23F	238.403877	-1.3404287	0.2960298	-4.5280194	5.95E-06	0.00024238
Qprt	587.692867	-1.3409961	0.34453127	-3.8922333	9.93E-05	0.00242864
Cacna2d4	15.0389068	-1.343357	0.4322704	-3.1076776	0.00188564	0.02342135

Ly6e	6874.8962	-1.3468523	0.22041788	-6.1104493	9.94E-10	1.34E-07
Aldh3b2	62.5446379	-1.3585576	0.43203895	-3.1445257	0.00166356	0.02113567
Dnajc5g	386.530307	-1.3589514	0.35165396	-3.8644563	0.00011134	0.00266985
Myh14	1120.27812	-1.3690754	0.31393939	-4.3609544	1.29E-05	0.00046724
Pnlip	35.8636361	-1.3730791	0.41567301	-3.3032674	NA	NA
Pga5	303.015517	-1.3745402	0.39380716	-3.4903891	0.00048232	0.00840866
Capn11	94.5919716	-1.3821856	0.4205622	-3.2865189	0.00101434	0.01474205
Fut9	2999.09125	-1.3837698	0.21888487	-6.3219069	2.58E-10	3.90E-08
Map2	275.930522	-1.3849498	0.31898123	-4.341791	1.41E-05	0.00050292
Lrfn3	106.845896	-1.3932215	0.358943	-3.8814561	0.00010383	0.00251512
3632451O06I	1036.01776	-1.3995453	0.20710508	-6.7576578	1.40E-11	2.69E-09
Prom1	556.551085	-1.3996388	0.21870813	-6.3995736	1.56E-10	2.45E-08
Dusp4	128.593001	-1.4020433	0.39647639	-3.5362591	0.00040584	0.00739012
4933408N05I	16.3273315	-1.4029296	0.43024953	-3.2607347	0.00111124	0.01581051
Glipr2	3057.57942	-1.4069419	0.20487023	-6.8674783	6.53E-12	1.37E-09
Crnde	187.474545	-1.4099323	0.31225522	-4.5153203	6.32E-06	0.00025536
Mcf2l	698.979732	-1.4127909	0.27811599	-5.079862	3.78E-07	2.41E-05
Hebp1	1610.97299	-1.4127943	0.36833164	-3.8356584	0.00012523	0.00293729
Scara5	125.365794	-1.4130247	0.42757461	-3.3047442	NA	NA
9430069I07R	15.5693999	-1.4187378	0.4319496	-3.2844986	0.00102164	0.01480619
Lst1	139.703054	-1.4193171	0.39395696	-3.6027212	0.0003149	0.00609087
Pipox	3394.05571	-1.4205378	0.21420152	-6.6317821	3.32E-11	5.86E-09
Ddo	28.9660208	-1.4227478	0.43043231	-3.3053927	0.00094843	0.01398661
Lefty1	1771.02434	-1.4282346	0.43188263	-3.3069972	0.00094302	0.01398576
4930433N12I	15.3962505	-1.4356229	0.43164365	-3.3259448	0.00088119	0.01334318
Lingo3	125.292651	-1.4408181	0.37015492	-3.8924733	9.92E-05	0.00242864
Gpx6	197.868644	-1.4433149	0.3986337	-3.6206546	0.00029386	0.00575541
Acot1	272.4862	-1.4510916	0.29189109	-4.9713461	6.65E-07	3.92E-05
Dtx1	1672.97982	-1.455996	0.25928231	-5.6154851	1.96E-08	1.87E-06
Gm4349	116.057124	-1.4583033	0.34437308	-4.2346612	2.29E-05	0.00074781
Tdrd12	5826.39537	-1.4589246	0.22968603	-6.3518212	2.13E-10	3.24E-08
Ttll8	37.6777263	-1.4598952	0.37302181	-3.9136992	9.09E-05	0.00226156
1700123I01R	117.200728	-1.469797	0.35945739	-4.0889326	4.33E-05	0.00125498
Spire2	1400.03132	-1.4751614	0.27971491	-5.2738033	1.34E-07	9.90E-06
E2f8	1224.10524	-1.4812604	0.29962191	-4.9437653	7.66E-07	4.43E-05
5033404E19F	55.9859887	-1.4849371	0.39443805	-3.7646903	0.00016676	0.00369404
Fam64a	2366.86261	-1.491455	0.28277141	-5.2744195	1.33E-07	9.90E-06
Gm4975	640.426708	-1.5039949	0.40026515	-3.7574965	0.00017162	0.0037803
Dpys	1462.71762	-1.5040347	0.35037373	-4.2926584	1.77E-05	0.00059814
Tmprss13	24.5125342	-1.5044315	0.4302291	-3.4968148	NA	NA
Ap3b2	1618.84586	-1.5130506	0.37493385	-4.0355135	5.45E-05	0.00148904

Mettl22	507.623791	-1.5139102	0.24298837	-6.2303812	4.65E-10	6.64E-08
Selenbp1	158.973202	-1.5268086	0.34313215	-4.4496227	8.60E-06	0.00033277
Lhfpl4	26.9968132	-1.5289051	0.41992208	-3.6409258	0.00027166	0.00539537
Atp10a	203.294378	-1.5306336	0.35578107	-4.3021782	1.69E-05	0.00057678
Pycr1	1605.57107	-1.5353275	0.2291457	-6.700224	2.08E-11	3.76E-09
Usp29	415.701657	-1.5397814	0.35500594	-4.3373399	1.44E-05	0.00050644
Nfe2l3	375.20372	-1.5640932	0.31731929	-4.9290833	8.26E-07	4.74E-05
Trib2	166.673069	-1.572299	0.31570436	-4.9802892	6.35E-07	3.77E-05
Gstm3	596.29711	-1.5747164	0.33464102	-4.7056887	2.53E-06	0.00012219
T2	61.2057512	-1.576015	0.4319062	-3.6489751	NA	NA
Gnb4	1073.36865	-1.5807239	0.20940688	-7.5485768	4.40E-14	1.56E-11
Klf6	2438.41267	-1.5844499	0.23170132	-6.8383292	8.01E-12	1.64E-09
Cntd1	342.359763	-1.5876685	0.33898447	-4.6836023	2.82E-06	0.00013243
Aldh1b1	382.147195	-1.5896929	0.29301249	-5.4253417	5.78E-08	4.78E-06
Alox12e	44.6495456	-1.6029527	0.42339603	-3.7859418	0.00015313	0.0034671
Myb	393.065004	-1.611212	0.39709607	-4.0574866	4.96E-05	0.00138602
Trim60	30.7248162	-1.6169599	0.4261253	-3.7945645	0.0001479	0.00339238
Fam169b	656.862886	-1.6217005	0.39190467	-4.1379974	NA	NA
Apela	4191.03871	-1.6266109	0.35034446	-4.6428901	3.44E-06	0.00015622
Plk5	200.904609	-1.629051	0.29803542	-5.4659645	4.60E-08	3.94E-06
Eci3	87.1561568	-1.6318091	0.35631646	-4.5796624	4.66E-06	0.00019843
Sptbn2	1790.55836	-1.6340538	0.2818958	-5.7966588	6.76E-09	7.06E-07
Creg2	80.9928184	-1.6392619	0.41724886	-3.9287391	NA	NA
Cpne5	926.918651	-1.6448636	0.20666232	-7.9591846	1.73E-15	8.69E-13
Lrrc8e	62.7605032	-1.6554963	0.42524299	-3.8930595	9.90E-05	0.0024285
Calca	236.296296	-1.6558532	0.33228774	-4.9831907	6.25E-07	3.74E-05
Matn3	89.5820311	-1.6798581	0.29817719	-5.6337579	1.76E-08	1.71E-06
Anxa8	293.439563	-1.6823468	0.30021057	-5.6038891	2.10E-08	1.99E-06
Rnf207	169.315153	-1.6881374	0.35205684	-4.7950705	1.63E-06	8.40E-05
Clmn	924.892263	-1.6908313	0.24220533	-6.9809831	2.93E-12	6.70E-10
Dmtn	4782.4693	-1.7158944	0.18050181	-9.5062446	1.98E-21	2.56E-18
Chrnd	87.3987419	-1.7163612	0.36026802	-4.7641232	1.90E-06	9.39E-05
Ccnd1	6292.13542	-1.7255525	0.25345661	-6.8080785	9.89E-12	1.94E-09
Atp10d	1517.54837	-1.7274216	0.38247922	-4.5163803	6.29E-06	0.00025475
Cald1	6115.36184	-1.7417694	0.23583997	-7.3853868	1.52E-13	4.55E-11
Pglyrp1	640.771803	-1.7421368	0.34553497	-5.0418537	4.61E-07	2.88E-05
Cbr3	1386.60232	-1.7504469	0.251418	-6.9622976	3.35E-12	7.54E-10
Pou2f3	1498.17964	-1.7757016	0.30412207	-5.8387791	5.26E-09	5.68E-07
Enpp3	413.056474	-1.7895009	0.38075397	-4.6998878	2.60E-06	0.00012494
Sgpp2	97.9435735	-1.833062	0.39571688	-4.6322564	3.62E-06	0.0001621
Nuggc	140.297039	-1.8401055	0.43129603	-4.2664558	NA	NA

Gm9112	59.4943092	-1.8490517	0.41993578	-4.4031773	1.07E-05	0.00039218
Mvb12b	627.849302	-1.8566029	0.32487912	-5.7147499	1.10E-08	1.10E-06
Pof1b	788.36262	-1.8575807	0.38920987	-4.7726967	1.82E-06	9.15E-05
Id4	685.606564	-1.8629601	0.24570435	-7.5821212	3.40E-14	1.26E-11
Lrtm2	49.660143	-1.8648679	0.42242319	-4.4146911	1.01E-05	0.00037905
Neil3	484.587338	-1.8687101	0.27754747	-6.7329386	1.66E-11	3.12E-09
Gm5091	31.4800902	-1.8864299	0.43191989	-4.3675458	1.26E-05	0.00045548
Dmrtc2	145.141066	-1.9005633	0.31593928	-6.0155967	1.79E-09	2.28E-07
Slco4a1	394.168608	-1.9379759	0.27987569	-6.9244168	4.38E-12	9.59E-10
Gm6682	247.0041	-1.9517848	0.42411237	-4.6020465	4.18E-06	0.00018378
Vax2os	720.691961	-1.9750264	0.31416445	-6.2866004	3.24E-10	4.81E-08
Hhip	190.163207	-1.9816116	0.3305646	-5.9946273	2.04E-09	2.52E-07
Nwd1	65.466098	-1.9920876	0.41127182	-4.843725	1.27E-06	6.83E-05
Slc12a8	812.03706	-1.9982578	0.24008224	-8.3232219	8.56E-17	6.34E-14
Hsh2d	210.095645	-2.0175148	0.28715463	-7.0258831	2.13E-12	5.16E-10
Ccdc68	325.12584	-2.051163	0.38989808	-5.260767	1.43E-07	1.04E-05
Dmrtc1b	48.5925577	-2.0548084	0.40012796	-5.1353782	2.82E-07	1.85E-05
Ramp2	146.885076	-2.0606029	0.34921866	-5.9006095	3.62E-09	4.10E-07
Atp6v0a4	633.07703	-2.0624982	0.36435534	-5.6606778	1.51E-08	1.49E-06
Hmha1	1120.54028	-2.0941209	0.25370792	-8.254062	1.53E-16	1.04E-13
Ndrg2	714.608207	-2.1071731	0.27173788	-7.7544326	8.87E-15	3.63E-12
A2m	5756.41123	-2.2312132	0.38325619	-5.8217276	5.82E-09	6.20E-07
Pxt1	54.240384	-2.2408355	0.36768008	-6.0945251	1.10E-09	1.47E-07
Bst2	2532.15262	-2.3564923	0.28215526	-8.3517574	6.73E-17	5.23E-14
Igfbp5	258.594209	-2.4226944	0.336654	-7.1963927	6.18E-13	1.70E-10
Ccbe1	276.620954	-2.4803241	0.37430393	-6.6264974	3.44E-11	6.01E-09
Nlrp3	113.84107	-2.5435171	0.39912879	-6.3726727	1.86E-10	2.86E-08
Ccnd3	7373.98543	-2.5971681	0.31682903	-8.1973803	2.46E-16	1.53E-13
Obox6	2313.95719	-2.9583125	0.3753284	-7.8819308	3.22E-15	1.52E-12
Gm19784	30.5544806	-3.0564313	0.42886329	-7.1268195	1.03E-12	2.62E-10

Supplementary Table 3: Comparisons of transcript abundance between Ctrl and Q-KO ES cells.

id	baseMean	log2 fold char	lfcSE	stat	p-value	p-adj
Rhox13	1051.60585	4.09230298	0.27305684	14.9870002	8.93E-51	1.39E-46
Akr1cl	1103.11351	3.68685325	0.36083072	10.2176812	1.65E-24	4.28E-21
Rhox2h	103.628217	3.35537608	0.34866919	9.62337982	6.37E-22	9.91E-19
Igfbp7	881.546459	3.20320114	0.3388073	9.45434522	3.25E-21	3.63E-18
Slc13a5	2628.7357	3.14898428	0.29399032	10.7111835	9.02E-27	2.81E-23
Afm	43.6074011	3.14303641	0.42157241	7.45550793	8.95E-14	2.96E-11
Rin3	314.741815	2.92585934	0.31652124	9.24380097	2.38E-20	2.31E-17
Atp12a	562.778586	2.90984535	0.29872755	9.74080017	2.02E-22	3.49E-19
Asz1	712.305439	2.90328821	0.3737786	7.7674009	8.01E-15	3.37E-12
Dppa1	61.4603294	2.88065634	0.42967763	6.70422693	2.02E-11	3.70E-09
BC053393	282.650086	2.78470661	0.37702789	7.3859432	1.51E-13	4.55E-11
Nell2	160.548233	2.77174097	0.38520434	7.19550823	6.22E-13	1.70E-10
Cd74	436.252265	2.74526242	0.37035132	7.41258985	1.24E-13	3.93E-11
Nap1l5	291.609812	2.73421477	0.27549526	9.92472539	3.25E-23	6.32E-20
Crispld2	226.167751	2.69342409	0.33953671	7.93264468	2.15E-15	1.04E-12
Otor	28.2785011	2.68141999	0.42911292	6.2487515	4.14E-10	6.01E-08
AU022751	647.790422	2.67967947	0.37173328	7.20860792	5.65E-13	1.60E-10
Rhox6	447.123946	2.63227342	0.37965617	6.93330859	4.11E-12	9.13E-10
Lmod3	90.3306843	2.61638342	0.38239611	6.84207648	7.81E-12	1.62E-09
Gm9	542.711861	2.59571189	0.29158509	8.90207343	5.48E-19	5.01E-16
Gpnmb	1462.527	2.58030471	0.31215194	8.26618183	1.38E-16	9.78E-14
Derl3	418.925972	2.56210295	0.23393794	10.9520626	6.50E-28	2.53E-24
Gsto1	14423.8207	2.54521949	0.31395671	8.10691231	5.19E-16	2.99E-13
Lrrc4	102.225832	2.53948248	0.35336528	7.18656476	6.64E-13	1.78E-10
Cdx2	47.0771812	2.53806029	0.40789369	6.22235729	4.90E-10	6.80E-08
Adcy2	333.539747	2.53098207	0.32168886	7.8677953	3.61E-15	1.65E-12
H2bfm	121.809433	2.51010056	0.33364218	7.52333106	5.34E-14	1.85E-11
Rec8	8003.94667	2.47868208	0.24933974	9.94098279	2.76E-23	6.13E-20
Pik3r3	6466.42183	2.46600561	0.2016161	12.2311941	2.12E-34	1.65E-30
Akr1c18	51.7511722	2.43181775	0.37525532	6.48043511	9.15E-11	1.50E-08
Sez6l	218.545766	2.41413729	0.27848038	8.6689673	4.36E-18	3.77E-15
AI118078	279.651828	2.40715755	0.30922827	7.7844032	7.00E-15	3.11E-12
Tacstd2	27.1333578	2.39778417	0.42995583	5.57681516	2.45E-08	2.27E-06
Cpne8	172.410098	2.33587661	0.39103843	5.97352181	2.32E-09	2.82E-07
Tbx2	308.383466	2.31284206	0.3431984	6.73908164	1.59E-11	3.02E-09
2200002D01f	297.566729	2.3127064	0.30814918	7.50515195	6.14E-14	2.07E-11
Fam198b	3964.81624	2.30067777	0.28751677	8.00189079	1.23E-15	6.57E-13
Gm1564	5943.91432	2.28530579	0.24173618	9.45371859	3.27E-21	3.63E-18
Wls	1979.18121	2.25992156	0.31836313	7.09856557	1.26E-12	3.11E-10

Kcnh1	118.240821	2.25017695	0.36644982	6.14047762	8.23E-10	1.12E-07
Rhox2d	62.7943794	2.24446919	0.41007602	5.4733003	4.42E-08	3.84E-06
Slc26a9	108.239165	2.21408205	0.4090818	5.41232113	6.22E-08	5.12E-06
Luzp4	119.694545	2.19669262	0.31955562	6.87421054	6.23E-12	1.33E-09
Rhox2g	50.2852088	2.18485832	0.42128236	5.18620893	2.15E-07	1.48E-05
Ffar3	332.218329	2.15902602	0.29025428	7.43839521	1.02E-13	3.30E-11
Pmaip1	3764.28861	2.15679488	0.30245211	7.13102926	9.96E-13	2.58E-10
Lcp1	1525.47099	2.14706596	0.32499747	6.60640827	3.94E-11	6.73E-09
<i>Prg4</i>	<i>52.4293478</i>	<i>2.14051512</i>	<i>0.43216623</i>	<i>4.9529902</i>	<i>NA</i>	<i>NA</i>
Cyp11a1	57.3162529	2.13126033	0.3533505	6.03157574	1.62E-09	2.10E-07
Cd34	154.329039	2.1311845	0.3394539	6.27827367	3.42E-10	5.02E-08
Hoxb9	476.128646	2.12078927	0.26135616	8.11455629	4.88E-16	2.92E-13
Sh3d21	611.433317	2.11564699	0.28863212	7.32990843	2.30E-13	6.76E-11
C1qtnf9	38.6512382	2.08494277	0.40144231	5.19362983	2.06E-07	1.43E-05
Mrc2	216.164522	2.08100502	0.3868049	5.3799862	7.45E-08	5.94E-06
Mrc1	73.9029463	2.06140162	0.38566186	5.34510112	9.04E-08	7.00E-06
Eomes	1009.32322	2.05584763	0.1822252	11.2819064	1.61E-29	8.36E-26
Muc1	331.515239	2.05356452	0.21799407	9.42027691	4.50E-21	4.66E-18
Gm16063	65.0354141	2.04916207	0.34796067	5.88906227	3.88E-09	4.35E-07
Loxl4	208.912258	2.04770093	0.37584059	5.448323	5.08E-08	4.32E-06
Rhox1	803.957581	2.03718097	0.25509049	7.98611102	1.39E-15	7.22E-13
Rhox2b	82.0412765	2.02717931	0.39443105	5.13950242	2.75E-07	1.83E-05
Rhox9	438.190286	2.02469142	0.41174395	4.91735557	8.77E-07	5.02E-05
Eras	426.233089	2.02348669	0.26659574	7.59009381	3.20E-14	1.24E-11
Parvg	122.767446	2.02095216	0.37655141	5.36700194	8.01E-08	6.32E-06
Adam11	1265.73398	2.00793539	0.23643713	8.49247054	2.02E-17	1.66E-14
Zcchc12	53.2861587	2.00779308	0.38797616	5.17504246	2.28E-07	1.55E-05
Gm12169	125.917634	2.0032383	0.42911118	4.66834329	3.04E-06	0.00014012

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Supplementary Table 3: Comparisons of transcript abundance between Ctrl and Q-KO ES cells.

id	baseMean	log2 fold char	lfcSE	stat	p-value	p-adj
Hsh2d	210.095645	-2.0175148	0.28715463	-7.0258831	2.13E-12	5.16E-10
Ccdc68	325.12584	-2.051163	0.38989808	-5.260767	1.43E-07	1.04E-05
Dmrtc1b	48.5925577	-2.0548084	0.40012796	-5.1353782	2.82E-07	1.85E-05
Ramp2	146.885076	-2.0606029	0.34921866	-5.9006095	3.62E-09	4.10E-07
Atp6v0a4	633.07703	-2.0624982	0.36435534	-5.6606778	1.51E-08	1.49E-06
Hmha1	1120.54028	-2.0941209	0.25370792	-8.254062	1.53E-16	1.04E-13
Ndrp2	714.608207	-2.1071731	0.27173788	-7.7544326	8.87E-15	3.63E-12
A2m	5756.41123	-2.2312132	0.38325619	-5.8217276	5.82E-09	6.20E-07
Pxt1	54.240384	-2.2408355	0.36768008	-6.0945251	1.10E-09	1.47E-07
Bst2	2532.15262	-2.3564923	0.28215526	-8.3517574	6.73E-17	5.23E-14
Igfbp5	258.594209	-2.4226944	0.336654	-7.1963927	6.18E-13	1.70E-10
Ccbe1	276.620954	-2.4803241	0.37430393	-6.6264974	3.44E-11	6.01E-09
Nlrp3	113.84107	-2.5435171	0.39912879	-6.3726727	1.86E-10	2.86E-08
Ccnd3	7373.98543	-2.5971681	0.31682903	-8.1973803	2.46E-16	1.53E-13
Obox6	2313.95719	-2.9583125	0.3753284	-7.8819308	3.22E-15	1.52E-12
Gm19784	30.5544806	-3.0564313	0.42886329	-7.1268195	1.03E-12	2.62E-10

Supplementary Table 4: Mapping of cyclin E-CDK2-dependent phosphosites on N

Phosphorylation analysis of Nanog using LC-MS/MS

ScanF	z	XCorr	Delta Corr	# Ions	Mat Total Ions	Reference Peptide
20939	3	3.736	0.027	24	92	sp Q80Z64.E.AAS#PRP
11824	3	3.719	0.044	28	92	sp Q80Z64.E.AAS#PRP
20401	3	4.813	0.012	27	92	sp Q80Z64.E.AAS#PRP
19796	3	4.33	0.003	27	92	sp Q80Z64.E.AAS#PRP
22265	3	3.659	0.005	26	92	sp Q80Z64.E.AASPRPS
11050	2	1.894	0.062	17	28	sp Q80Z64.E.DLPLQGS
17277	2	1.894	0.114	17	28	sp Q80Z64.E.DLPLQGS
20939	3	3.736	0.027	24	92	sp Q80Z64.E.AAS#PRP
19796	3	4.33	0.003	27	92	sp Q80Z64.E.AAS#PRP
20401	3	4.813	0.012	27	92	sp Q80Z64.E.AAS#PRP
11824	3	3.719	0.044	28	92	sp Q80Z64.E.AAS#PRP
22265	3	3.659	0.005	26	92	sp Q80Z64.E.AASPRPS
29533	2	1.826	0.621	14	28	sp Q80Z64.E.DLPLQGS
29178	3	1.562	0.004	20	88	sp Q80Z64.E.DLPLQGS
29750	3	1.515	0.004	23	88	sp Q80Z64.E.DLPLQGS
11050	2	1.894	0.062	17	28	sp Q80Z64.E.DLPLQGS
26548	3	1.396	0.047	21	88	sp Q80Z64.E.DLPLQGS
17277	2	1.894	0.114	17	28	sp Q80Z64.E.DLPLQGS
10475	2	2.365	0.018	15	22	sp Q80Z64.E.SHAHFS#
7087	2	2.156	0.037	18	22	sp Q80Z64.E.SHAHFST

Vanog, Oct4 and Sox2.

ModScore Peptide	Max Score	Site 1 Posi	Site 1 Prot	Site 1 Scor	Site 2 Posi
E.AAS#PRPSSDLPLQGSPDSST#SPK.Q	103.919	3	52	25.174	21
E.AAS#PRPSSDLPLQGSPDSSTSPK.Q	96.591	3	52	23.624	0
E.AAS#PRPSSDLPLQGSPDS#STSPK.Q	91.337	3	52	19.846	19
E.AAS#PRPSSDLPLQGSPDSS#TSPK.Q	120.317	3	52	16.062	20
E.AAS#PRPSSDLPLQGSPDSS#TSPK.Q	70.174	3	52	16.062	20
E.DLPLQGS#PDSSTSPK.Q	130.006	7	65	13.38	0
E.DLPLQGSPDSSTS#PK.Q	107.026	13	71	17.009	0
E.AAS#PRPSSDLPLQGSPDSST#SPK.Q	103.919	3	52	25.174	21
E.AAS#PRPSSDLPLQGSPDSS#TSPK.Q	120.317	3	52	16.062	20
E.AAS#PRPSSDLPLQGSPDS#STSPK.Q	91.337	3	52	19.846	19
E.AAS#PRPSSDLPLQGSPDSSTSPK.Q	96.591	3	52	23.624	0
E.AAS#PRPSSDLPLQGSPDSS#TSPK.Q	70.174	3	52	16.062	20
E.DLPLQGS#P.D	94.662	7	65	1000	0
E.DLPLQGS#PDSSTS#PKQKLSSPEA.D	112.582	7	65	15.007	13
E.DLPLQGS#PDSSTS#PKQKLSSPEA.D	112.582	7	65	15.007	13
E.DLPLQGS#PDSSTSPK.Q	130.006	7	65	13.38	0
E.DLPLQGS#PDSSTSPKQKLSSPEA.D	61.361	7	65	23.624	0
E.DLPLQGSPDSSTS#PK.Q	107.026	13	71	17.009	0
E.SHAHFST#PQALE.L	97.565	7	287	16.073	0
E.SHAHFST#PQALE.L	119.747	7	287	15.012	0

Site 2 Prot Site 2 Score

	7.71
	0
	0
	0
	0
	0
	0
	7.71
	0
	0
	0
	0
	0
71	18.805
71	1.197
	0
	0
	0
	0
	0

Supplementary Table 4: Mapping of cyclin E-CDK2-dependent phosphosites

Phosphorylation analysis of Sox2 using LC-MS/MS

ScanF	z	XCorr	Delta Corr	# Ions Mat	Total Ions
10547	2	3.188	0.194	14	34
10565	2	2.945	0.062	20	34
6705	4	2.442	0.184	30	234
7731	4	3.384	0.041	33	234
7747	4	3.192	0.105	32	234
48392	4	1.24	0.098	21	150
2264	3	2.636	0.038	26	64

on Nanog, Oct4 and Sox2.

Reference	Peptide	ModScore	Max Score
sp P48432 SOX2_MOUSE	Y.SQQGT#PGM*ALGSM*GSVVK.S	Y.SQQGT#I	68.171
sp P48432 SOX2_MOUSE	Y.SQQGT#PGM*ALGSM*GSVVK.S	Y.SQQGT#I	122.344
sp P48432 SOX2_MOUSE	Y.NM*M*ETELKPPGPQQASGGGGGGGNATAA	Y.NM*M*I	17.463
sp P48432 SOX2_MOUSE	Y.NM*M*ETELKPPGPQQASGGGGGGGNATAA	Y.NM*M*I	15.031
sp P48432 SOX2_MOUSE	Y.NM*M*ETELKPPGPQQASGGGGGGGNATAA	Y.NM*M*I	20.075
sp P48432 SOX2_MOUSE	K.S#EASSSPPVVTSSSHSRAPCQAGDLR.D	K.SEASSS#I	7.948
sp P48432 SOX2_MOUSE	K.SEASSS#PPVVTSSSHSR.A	K.SEASSS#I	70.334

Site 1 Posi Site 1 Prot Site 1 Score

5	235	30.07
5	235	24.243
37	39	17.009
37	39	15.381
37	39	2.366
6	253	22.329
6	253	6.591

Supplementary Table 4: Mapping of cyclin E-CDK2-dependent phosphosites on Nanog, Oct4 and Sox

Phosphorylation analysis of Sox2 using LC-MS/MS

ScanF	z	XCorr	Delta	Corr	# Ions	Peptide	Reference Peptide	ModScore
2308	2	1.876	0.115		13	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2312	2	2.46	0.065		16	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2317	2	2.355	0.134		14	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2318	3	1.915	0.118		21	64 P1	sp P48432 K.SQTYM* K.SQTYM*	
2320	2	2.013	0.13		16	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2323	2	2.815	0.099		17	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2326	2	2.856	0.102		18	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2327	3	2.656	0.187		20	64 P1	sp P48432 K.SQTYM* K.SQTYM*	
2329	2	3.062	0.057		17	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2333	3	2.422	0.183		24	64 P1	sp P48432 K.SQTYM* K.SQTYM*	
2336	3	3.149	0.193		25	64 P1	sp P48432 K.SQTYM* K.SQTYM*	
2339	3	2.827	0.197		26	64 P1	sp P48432 K.SQTYM* K.SQTYM*	
2341	2	3.172	0.072		18	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2344	2	2.707	0.074		15	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2346	2	3.014	0.021		18	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2347	3	2.537	0.231		21	64 P1	sp P48432 K.SQTYM* K.SQTYM*	
2349	2	2.923	0.045		17	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2352	2	3.026	0.046		17	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2354	2	2.909	0.054		16	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2356	2	3.261	0.049		20	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2357	3	3.304	0.178		30	64 P1	sp P48432 K.SQTYM* K.SQTYM*	
2359	2	3.181	0.03		17	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2360	3	2.558	0.182		26	64 P1	sp P48432 K.SQTYM* K.SQTYM*	
2362	2	3.045	0.067		19	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2363	3	2.885	0.235		24	64 P1	sp P48432 K.SQTYM* K.SQTYM*	
2365	2	2.977	0.106		21	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2368	2	3.094	0.048		20	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2369	3	2.932	0.24		25	64 P1	sp P48432 K.SQTYM* K.SQTYM*	
2371	2	3.219	0.055		16	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2372	3	3.345	0.114		28	64 P1	sp P48432 K.SQTYM* K.SQTYM*	
2374	2	3.134	0.021		18	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2377	2	2.761	0.074		17	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2380	2	2.845	0.032		19	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2382	2	3.204	0.071		17	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2383	3	2.739	0.064		26	64 P1	sp P48432 K.SQTYM* K.SQTYM*	
2385	2	3.285	0.082		16	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2386	3	3.195	0.158		25	64 P1	sp P48432 K.SQTYM* K.SQTYM*	
2388	2	2.921	0.016		15	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2390	2	3.25	0.046		15	32 P1	sp P48432 K.SQTYM* K.SQTYM*	
2391	3	2.947	0.123		25	64 P1	sp P48432 K.SQTYM* K.SQTYM*	
2396	2	2.901	0.036		19	32 P1	sp P48432 K.SQTYM* K.SQTYM*	

2399	2	2.251	0.167	13	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2402	2	2.182	0.112	14	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2405	2	2.096	0.116	14	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2407	2	2.158	0.131	15	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2409	2	2.476	0.088	17	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2412	2	1.978	0.093	15	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2415	2	1.94	0.13	14	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2417	2	1.942	0.036	14	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2419	2	2.674	0.098	15	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2421	2	1.858	0.086	15	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2423	2	2.067	0.072	13	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2425	2	1.373	0.112	11	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2428	2	1.535	0.096	12	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2432	2	1.567	0.08	12	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2438	2	1.726	0.006	10	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2467	2	2.133	0.072	10	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2469	2	1.951	0.001	10	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2472	2	2.085	0.013	16	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2474	2	2.359	0.036	14	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2477	2	2.124	0.027	13	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2482	2	1.985	0.019	12	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2487	2	2.453	0.016	15	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2490	2	3.052	0.003	20	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2492	2	2.565	0.03	15	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2502	2	2.398	0.177	18	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2510	2	1.207	0.132	11	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2514	2	1.661	0.077	12	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2518	2	1.161	0.005	12	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2524	2	1.185	0.067	10	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2526	2	1.35	0.082	11	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2545	2	1.287	0	12	32 P1	sp P48432 K.SQT#YM K.SQT#YM
2809	2	1.67	0.03	10	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2812	2	1.679	0.171	15	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2815	2	1.134	0.079	10	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2340	3	3.372	0.129	27	64 P1	sp P48432 K.SQTYM* K.SQTYM*
2334	3	3.286	0.191	27	64 P1	sp P48432 K.SQTYM* K.SQT#YM
2328	3	3.277	0.169	30	64 P1	sp P48432 K.SQTYM* K.SQTYM*
2325	3	3.259	0.169	25	64 P1	sp P48432 K.SQTYM* K.SQTYM*
2345	2	3.22	0.037	19	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2327	2	3.205	0.048	18	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2333	2	3.151	0.041	17	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2321	2	3.145	0.062	17	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2351	2	3.14	0.047	17	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2357	2	3.136	0.081	19	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2342	2	3.087	0.032	17	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2306	2	3.076	0.052	18	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2301	2	3.067	0.057	18	32 P1	sp P48432 K.SQTYM* K.SQTYM*

2312	2	3.031	0.063	18	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2339	2	2.979	0.088	19	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2354	2	2.969	0.058	15	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2348	2	2.949	0.069	17	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2322	3	2.931	0.196	28	64 P1	sp P48432 K.SQTYM* K.SQTYM*
2330	2	2.925	0.094	17	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2336	2	2.92	0.023	16	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2337	3	2.916	0.113	27	64 P1	sp P48432 K.SQTYM* K.SQTYM*
2443	2	2.913	0.081	15	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2324	2	2.897	0.056	19	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2309	2	2.832	0.035	19	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2316	3	2.829	0.167	26	64 P1	sp P48432 K.SQTYM* K.SQTYM*
2362	2	2.815	0.101	15	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2303	2	2.8	0.061	19	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2318	2	2.8	0.052	18	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2315	2	2.795	0.041	17	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2307	3	2.769	0.078	24	64 P1	sp P48432 K.SQTYM* K.SQTYM*
2364	2	2.767	0.09	19	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2346	3	2.763	0.207	24	64 P1	sp P48432 K.SQTYM* K.SQTYM*
2360	2	2.762	0.128	20	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2298	2	2.743	0.049	19	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2372	2	2.737	0.09	17	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2463	2	2.696	0.014	20	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2331	3	2.674	0.196	25	64 P1	sp P48432 K.SQTYM* K.SQTYM*
2291	2	2.651	0.141	15	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2349	3	2.621	0.129	24	64 P1	sp P48432 K.SQTYM* K.SQTYM*
2304	3	2.618	0.129	23	64 P1	sp P48432 K.SQTYM* K.SQTYM*
2789	2	2.602	0.037	16	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2343	3	2.59	0.056	22	64 P1	sp P48432 K.SQTYM* K.SQTYM*
2368	2	2.578	0.097	17	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2374	2	2.509	0.137	15	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2352	3	2.468	0.233	21	64 P1	sp P48432 K.SQTYM* K.SQTYM*
2376	2	2.453	0.171	14	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2313	3	2.442	0.208	24	64 P1	sp P48432 K.SQTYM* K.SQTYM*
2460	2	2.405	0.084	16	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2319	3	2.361	0.205	23	64 P1	sp P48432 K.SQTYM* K.SQTYM*
2431	2	2.348	0.034	13	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2310	3	2.312	0.221	23	64 P1	sp P48432 K.SQTYM* K.SQTYM*
2299	3	2.242	0.172	22	64 P1	sp P48432 K.SQTYM* K.SQTYM*
2392	2	2.189	0.109	15	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2433	2	2.176	0.057	12	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2168	3	2.159	0.178	22	64 P1	sp P48432 K.SQT#YM K.SQT#YM
2366	2	2.132	0.102	16	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2295	2	2.128	0.12	16	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2384	2	2.123	0.032	14	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2785	2	2.119	0.179	13	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2110	3	2.099	0.209	18	64 P1	sp P48432 K.SQT#YM K.SQT#YM

2382	2	2.076	0.117	16	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2370	2	1.938	0.152	14	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2390	2	1.874	0.19	13	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2358	3	1.832	0.16	21	64 P1	sp P48432 K.SQTYM* K.SQTYM*
2147	3	1.829	0.179	21	64 P1	sp P48432 K.SQT#YM K.SQT#YM
2380	2	1.821	0.179	12	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2791	2	1.773	0.208	13	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2388	2	1.757	0.091	10	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2441	2	1.7	0.025	13	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2386	2	1.609	0.019	11	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2398	2	1.575	0.173	14	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2429	2	1.556	0.001	14	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2794	2	1.524	0.028	11	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2489	2	1.518	0.039	11	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2787	2	1.381	0.095	11	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2484	2	1.229	0.005	11	32 P1	sp P48432 K.SQT#YM K.SQT#YM
2396	2	1.206	0.096	12	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2405	2	1.163	0.142	12	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2796	2	1.018	0.048	10	32 P1	sp P48432 K.SQTYM* K.SQTYM*
2469	2	2.241	0.01	12	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2478	2	3.909	0.005	17	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2484	2	2.393	0.047	16	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2493	2	2.526	0.005	16	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2496	2	2.729	0.018	18	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2502	2	3.622	0.013	20	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2505	2	2.986	0.074	18	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2511	2	2.792	0.104	20	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2517	2	2.583	0.007	17	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2523	2	2.366	0.025	18	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2526	2	2.257	0.011	17	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2543	2	2.419	0.005	18	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2586	3	1.314	0.085	18	64 P2	sp P48432 K.SQT#YM K.SQT#YM
2590	3	2.05	0.012	22	64 P2	sp P48432 K.SQT#YM K.SQT#YM
2599	2	1.227	0.094	9	32 P2	sp P48432 K.SQTYM* K.SQT#YM
2601	3	1.365	0.089	14	64 P2	sp P48432 K.S#QTYM K.S#QTYM
2511	2	3.526	0.004	17	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2496	2	3.459	0.052	19	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2472	2	3.291	0.019	20	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2499	2	3.208	0.008	18	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2493	2	2.97	0.007	14	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2468	2	2.849	0.041	16	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2490	2	2.703	0.041	19	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2378	3	2.665	0.179	20	64 P2	sp P48432 K.SQT#YM K.SQT#YM
2508	2	2.616	0.018	17	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2484	2	2.61	0.022	19	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2481	2	2.508	0.017	16	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2475	2	2.424	0.081	15	32 P2	sp P48432 K.SQTYM* K.SQTYM*

2470	2	2.418	0.029	14	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2534	2	1.939	0.113	15	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2531	2	1.636	0.017	11	32 P2	sp P48432 K.SQTYM* K.SQTYM*
2547	2	1.21	0.002	10	32 P2	sp P48432 K.SQT#YM K.SQT#YM
2740	2	4.31	0.676	22	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2685	2	4.222	0.668	22	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2722	3	4.137	0.78	34	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2706	2	4.111	0.686	22	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2709	2	4.016	0.708	23	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2729	3	3.991	0.756	31	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2703	2	3.975	0.665	21	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2688	2	3.97	0.681	24	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2694	2	3.934	0.685	24	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2697	2	3.924	0.652	23	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2689	3	3.883	0.79	35	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2794	3	3.874	0.812	29	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2753	3	3.871	0.813	30	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2731	2	3.844	0.733	22	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2713	3	3.71	0.772	35	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2712	2	3.697	0.636	24	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2691	2	3.693	0.627	23	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2719	3	3.683	0.739	35	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2698	3	3.679	0.754	34	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2721	2	3.678	0.723	24	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2734	2	3.67	0.739	23	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2695	3	3.657	0.776	36	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2700	2	3.653	0.637	23	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2704	3	3.651	0.739	35	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2732	3	3.625	0.66	33	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2744	3	3.623	0.66	30	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2741	3	3.599	0.807	29	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2715	2	3.587	0.641	23	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2701	3	3.567	0.722	36	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2718	2	3.562	0.765	21	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2716	3	3.554	0.767	34	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2686	3	3.543	0.752	36	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2728	2	3.532	0.709	22	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2724	2	3.529	0.568	22	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2707	3	3.489	0.759	35	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2768	3	3.483	0.751	29	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2738	3	3.475	0.703	30	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2683	2	3.411	0.704	22	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2836	2	3.383	0.757	20	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2746	2	3.379	0.753	21	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2743	2	3.346	0.694	20	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2752	2	3.332	0.701	22	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2692	3	3.32	0.782	35	64 P3	sp P48432 K.AQAYM* K.AQAYM*

2737	2	3.315	0.725	22	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2735	3	3.309	0.713	32	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2756	3	3.252	0.798	31	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2767	2	3.231	0.764	19	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2747	3	3.219	0.664	27	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2725	3	3.167	0.69	31	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2749	2	3.142	0.852	22	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2777	3	3.142	0.762	26	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2710	3	3.105	0.721	35	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2779	2	3.099	0.766	19	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2761	2	3.059	0.693	17	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2770	2	3.021	0.679	21	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2759	3	2.995	0.654	27	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2758	2	2.981	0.714	20	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2839	3	2.936	0.715	26	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2774	3	2.885	0.829	28	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2780	3	2.86	0.681	24	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2843	3	2.848	0.62	22	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2755	2	2.804	0.772	17	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2762	3	2.794	0.716	29	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2849	3	2.761	0.673	27	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2809	2	2.731	0.737	19	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2773	2	2.723	0.814	16	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2765	3	2.723	0.734	26	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2802	2	2.717	0.718	18	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2771	3	2.709	0.76	26	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2793	2	2.689	0.692	18	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2800	2	2.649	0.865	14	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2828	3	2.648	0.383	23	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2819	2	2.571	0.846	17	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2764	2	2.567	0.611	16	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2845	3	2.557	0.582	23	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2853	3	2.551	0.718	20	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2776	2	2.55	0.791	18	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2789	2	2.512	0.758	14	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2807	3	2.507	0.595	23	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2813	2	2.502	0.732	19	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2834	3	2.413	0.737	26	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2783	3	2.407	0.588	19	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2837	3	2.389	0.537	19	64 P3	sp P48432 K.AQAYM* K.AQAYM*
3083	3	2.335	0.543	20	64 P3	sp P48432 K.AQAYM K.AQAYM
2806	2	2.311	0.761	16	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2750	3	2.304	0.74	27	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2785	2	2.289	0.721	19	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2782	2	2.277	0.697	15	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2822	3	2.226	0.283	21	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2791	3	2.212	0.613	24	64 P3	sp P48432 K.AQAYM* K.AQAYM*

3079	3	2.211	0.508	22	64 P3	sp P48432 K.AQAYM K.AQAYM
2851	2	2.183	0.727	14	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2804	2	2.175	0.809	15	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2847	2	2.166	0.752	13	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2841	2	2.141	0.849	16	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2814	3	2.092	0.658	20	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2823	2	2.074	0.808	16	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2787	3	2.072	0.669	19	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2832	2	2.072	0.863	13	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2816	2	2.071	0.83	17	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2820	3	2.048	0.457	20	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2860	2	2.019	0.801	14	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2659	3	1.937	0.401	19	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2855	2	1.86	0.721	15	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2547	2	1.824	0.828	11	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2893	2	1.69	0.847	13	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2858	2	1.669	0.703	12	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2904	2	1.657	0.696	14	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2606	3	1.651	0.267	26	64 P3	sp P48432 K.AQAYM K.AQAYM
2867	2	1.635	0.926	12	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2811	2	1.623	0.782	13	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2549	2	1.621	0.764	14	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2922	2	1.529	0.758	13	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2885	2	1.492	0.901	12	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2381	2	1.428	0.461	10	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2906	2	1.323	0.572	13	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2939	2	1.302	0.473	11	32 P3	sp P48432 K.AQAYM* K.AQAYM*
3181	2	1.225	0.582	11	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2926	2	1.205	0.808	11	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2444	2	1.191	0.438	7	32 P3	sp P48432 K.AQAYM* K.AQAYM*
3117	2	1.178	0.416	11	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2507	2	1.162	0.937	8	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2624	3	1.149	0.329	21	64 P3	sp P48432 K.AQAYM K.AQAYM
3012	2	1.139	0.504	13	32 P3	sp P48432 K.AQAYM K.AQAYM
2889	2	1.122	0.681	11	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2826	2	1.122	0.637	12	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2378	2	1.101	0.377	9	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2579	3	1.082	0.469	21	64 P3	sp P48432 K.AQAYM K.AQAYM
2874	2	1.068	0.54	9	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2364	2	1.054	0.811	9	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2694	2	4.03	0.704	24	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2682	2	4.001	0.708	23	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2707	3	3.946	0.715	36	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2700	2	3.913	0.69	22	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2709	2	3.897	0.677	21	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2716	3	3.871	0.75	34	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2728	3	3.781	0.737	34	64 P3	sp P48432 K.AQAYM* K.AQAYM*

2680	3	3.773	0.725	36	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2734	3	3.754	0.78	33	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2746	3	3.733	0.725	28	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2724	2	3.706	0.711	20	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2685	2	3.694	0.628	24	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2736	2	3.685	0.753	25	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2689	3	3.684	0.77	35	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2703	2	3.683	0.665	23	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2679	2	3.681	0.671	22	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2712	2	3.674	0.782	22	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2718	2	3.643	0.744	24	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2677	2	3.641	0.824	24	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2695	3	3.634	0.732	36	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2697	2	3.629	0.62	23	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2691	2	3.617	0.572	23	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2769	3	3.569	0.719	28	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2721	2	3.547	0.689	22	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2704	3	3.542	0.708	33	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2683	3	3.539	0.724	36	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2706	2	3.536	0.689	23	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2755	3	3.536	0.755	26	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2686	3	3.503	0.722	37	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2710	3	3.497	0.768	35	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2715	2	3.493	0.658	21	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2688	2	3.487	0.638	22	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2713	3	3.485	0.75	34	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2719	3	3.47	0.695	34	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2739	2	3.469	0.665	18	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2692	3	3.451	0.741	35	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2722	3	3.429	0.728	35	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2698	3	3.36	0.721	34	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2701	3	3.345	0.754	36	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2733	2	3.24	0.732	20	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2752	3	3.228	0.595	28	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2727	2	3.184	0.734	21	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2740	3	3.155	0.581	30	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2725	3	3.131	0.726	27	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2742	2	3.102	0.609	18	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2771	3	3.082	0.76	26	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2775	3	3.074	0.845	23	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2782	2	3.072	0.611	18	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2786	3	3.027	0.798	21	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2730	2	2.995	0.765	21	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2749	3	2.972	0.665	27	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2748	2	2.938	0.826	18	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2793	2	2.9	0.571	16	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2743	3	2.888	0.625	29	64 P3	sp P48432 K.AQAYM* K.AQAYM*

2758	3	2.872	0.728	27	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2766	3	2.864	0.749	24	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2745	2	2.83	0.756	15	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2761	3	2.819	0.583	26	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2780	2	2.807	0.892	18	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2763	2	2.798	0.878	20	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2737	3	2.776	0.769	28	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2731	3	2.736	0.609	29	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2754	2	2.705	0.892	24	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2765	2	2.693	0.843	19	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2772	2	2.669	0.842	18	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2784	2	2.659	0.766	13	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2768	2	2.648	0.801	18	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2774	2	2.59	0.64	17	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2757	2	2.587	0.791	18	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2751	2	2.469	0.653	17	32 P3	sp P48432 K.AQAYM* K.AQAYM*
3048	3	2.372	0.546	25	64 P3	sp P48432 K.AQAYM K.AQAYM
2801	2	2.331	0	12	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2760	2	2.278	0.769	15	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2628	3	2.212	0.846	20	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2777	2	2.195	0.964	16	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2974	2	2.113	0.584	18	32 P3	sp P48432 K.AQAYM K.AQAYM
3090	2	2.077	0.303	14	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2789	2	2.07	0.594	15	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2814	2	2.055	0.385	12	32 P3	sp P48432 K.AQAYM* K.AQAYM*
3052	3	2.049	0.793	25	64 P3	sp P48432 K.AQAYM K.AQAYM
2821	2	2.03	0.957	12	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2778	3	1.997	0.718	21	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2791	2	1.949	0	15	32 P3	sp P48432 K.AQAYM* K.AQAYM*
3088	2	1.796	0.494	14	32 P3	sp P48432 K.AQAYM* K.AQAYM*
3086	2	1.769	0.391	14	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2824	2	1.731	0.737	15	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2978	2	1.657	0.499	11	32 P3	sp P48432 K.AQAYM K.AQAYM
2800	3	1.617	0.749	19	64 P3	sp P48432 K.AQAYM* K.AQAYM*
2976	2	1.419	0.803	15	32 P3	sp P48432 K.AQAYM K.AQAYM
2505	2	1.384	0.842	10	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2632	3	1.364	0.491	22	64 P3	sp P48432 K.AQAYM K.AQAYM
2816	2	1.36	0.805	9	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2379	2	1.326	0.405	9	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2818	2	1.325	0.639	9	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2833	2	1.314	0.457	10	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2892	2	1.265	0.607	10	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2493	2	1.25	0.942	9	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2812	2	1.207	0.793	10	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2617	3	1.171	0.227	22	64 P3	sp P48432 K.AQAYM K.AQAYM
2624	3	1.048	0.556	19	64 P3	sp P48432 K.AQAYM K.AQAYM
3092	2	1.047	0.865	12	32 P3	sp P48432 K.AQAYM* K.AQAYM*

2376	2	1.043	0.43	9	32 P3	sp P48432 K.AQAYM* K.AQAYM*
2372	2	1.023	0.465	8	32 P3	sp P48432 K.AQAYM* K.AQAYM*

2.

Max Score	Site 1 Posi	Site 1 Scor	Site 2 Posi	Site 2 Score
49.483	8	17.009	0	0
100.037	8	31.275	0	0
100.037	8	17.009	0	0
51.225	8	16.144	0	0
109.721	8	17.009	0	0
100.037	8	17.009	0	0
130.098	8	17.009	0	0
51.225	8	20.167	0	0
109.721	8	17.009	0	0
93.768	8	16.144	0	0
64.298	8	20.167	0	0
93.768	8	44.278	0	0
130.098	8	17.009	0	0
109.721	8	17.009	0	0
151.788	8	44.278	0	0
86.005	8	44.278	0	0
130.098	8	17.009	0	0
151.788	8	17.009	0	0
174.768	8	17.009	0	0
174.768	8	17.009	0	0
127.287	8	23.523	0	0
151.788	8	17.009	0	0
78.501	8	16.144	0	0
174.768	8	17.009	0	0
78.501	8	16.144	0	0
174.768	8	17.009	0	0
140.78	8	17.009	0	0
64.298	8	20.167	0	0
140.78	8	17.009	0	0
57.616	8	16.144	0	0
109.721	8	17.009	0	0
109.721	8	17.009	0	0
119.743	8	17.009	0	0
130.098	8	17.009	0	0
78.501	8	23.523	0	0
174.768	8	44.278	0	0
64.298	8	20.167	0	0
119.743	8	17.009	0	0
100.037	8	17.009	0	0
64.298	8	16.144	0	0
90.697	8	17.009	0	0

73.082	8	17.009	0	0
73.082	8	30.835	0	0
100.037	8	17.009	0	0
100.037	8	30.835	0	0
109.721	8	17.009	0	0
49.483	8	17.009	0	0
73.082	8	17.009	0	0
42.426	8	17.009	0	0
64.827	8	44.278	0	0
56.956	8	17.009	0	0
81.709	8	17.009	0	0
35.803	8	20.167	0	0
56.956	8	20.167	0	0
29.638	8	17.009	0	0
42.426	8	26.927	0	0
42.426	8	20.167	0	0
64.827	8	17.009	0	0
109.721	12	44.278	0	0
73.082	12	17.009	0	0
81.709	12	20.167	0	0
64.827	12	17.009	0	0
81.709	12	17.009	0	0
119.743	12	31.275	0	0
109.721	12	17.009	0	0
56.956	14	17.009	0	0
23.956	10	31.275	0	0
49.483	8	17.009	0	0
35.803	8	20.167	0	0
18.789	8	17.009	0	0
29.638	8	17.009	0	0
29.638	3	17.25	0	0
73.082	8	17.009	0	0
90.697	8	17.009	0	0
18.789	8	17.009	0	0
86.005	8	23.523	0	0
100.577	3	15.381	0	0
127.287	8	59.298	0	0
51.225	8	20.167	0	0
163.117	8	17.009	0	0
140.78	8	17.009	0	0
186.739	8	17.009	0	0
140.78	8	17.009	0	0
140.78	8	17.009	0	0
163.117	8	17.009	0	0
163.117	8	17.009	0	0
151.788	8	17.009	0	0
151.788	8	30.835	0	0

163.117	8	17.009	0	0
163.117	8	30.835	0	0
174.768	8	17.009	0	0
151.788	8	17.009	0	0
93.768	8	31.275	0	0
151.788	8	17.009	0	0
163.117	8	17.009	0	0
118.547	8	23.523	0	0
49.483	12	31.275	0	0
130.098	8	17.009	0	0
174.768	8	17.009	0	0
64.298	8	31.275	0	0
109.721	8	44.278	0	0
140.78	8	17.009	0	0
130.098	8	17.009	0	0
140.78	8	17.009	0	0
71.263	8	31.275	0	0
130.098	8	17.009	0	0
78.501	8	44.278	0	0
119.743	8	17.009	0	0
119.743	8	30.835	0	0
119.743	8	17.009	0	0
90.697	12	17.009	0	0
64.298	8	31.275	0	0
100.037	8	17.009	0	0
71.263	8	20.167	0	0
51.225	8	20.167	0	0
90.697	8	30.835	0	0
71.263	8	16.144	0	0
151.788	8	17.009	0	0
100.037	8	31.275	0	0
71.263	8	16.144	0	0
81.709	8	17.009	0	0
45.138	8	20.167	0	0
117.86	16	17.009	0	0
64.298	8	31.275	0	0
100.037	12	44.278	0	0
64.298	8	16.144	0	0
101.783	8	31.935	0	0
64.827	8	20.167	0	0
56.956	12	17.009	0	0
56.819	3	14.966	0	0
130.098	8	17.009	0	0
119.743	8	17.009	0	0
64.827	8	17.009	0	0
73.082	8	17.009	0	0
38.756	3	14.966	0	0

100.037	8	17.009	0	0
64.827	8	17.009	0	0
49.483	8	17.009	0	0
57.616	8	36.556	0	0
44.468	3	14.966	0	0
73.082	8	17.009	0	0
64.827	8	17.009	0	0
35.803	8	17.009	0	0
56.956	12	17.009	0	0
42.426	8	17.009	0	0
35.803	8	20.167	0	0
42.426	8	23.624	0	0
42.426	8	17.009	0	0
42.426	12	20.167	0	0
49.483	8	17.009	0	0
42.426	3	43.066	0	0
56.956	8	17.009	0	0
29.638	8	17.009	0	0
35.803	10	17.009	0	0
56.956	12	17.009	0	0
119.743	12	17.009	0	0
100.037	12	30.835	0	0
130.098	14	17.009	0	0
119.743	12	17.009	0	0
119.743	12	17.009	0	0
109.721	14	17.009	0	0
119.743	14	17.009	0	0
90.697	14	17.009	0	0
100.037	14	17.009	0	0
73.082	14	17.009	0	0
64.827	14	17.009	0	0
15.401	3	29.534	0	0
38.756	3	14.966	0	0
18.789	3	13.208	0	0
23.636	1	14.966	0	0
100.037	14	30.835	0	0
199.03	12	30.835	0	0
140.78	10	17.009	0	0
163.117	14	17.009	0	0
109.721	12	17.009	0	0
81.709	12	17.009	0	0
109.721	12	17.009	0	0
23.215	3	16.198	0	0
89.189	16	17.009	0	0
81.709	12	17.009	0	0
109.721	12	17.009	0	0
119.743	12	17.009	0	0

64.827	12	17.009	0	0
28.986	16	17.009	0	0
64.827	14	17.009	0	0
42.426	3	20.985	0	0
196.114	8	1000	0	0
221.315	8	1000	0	0
172.572	8	1000	0	0
208.556	8	1000	0	0
221.315	8	1000	0	0
143.877	8	1000	0	0
208.556	8	1000	0	0
221.315	8	1000	0	0
208.556	8	1000	0	0
208.556	8	1000	0	0
203.201	8	1000	0	0
100.577	8	1000	0	0
117.196	8	1000	0	0
208.556	8	1000	0	0
172.572	8	1000	0	0
221.315	8	1000	0	0
196.114	8	1000	0	0
134.755	8	1000	0	0
182.57	8	1000	0	0
208.556	8	1000	0	0
196.114	8	1000	0	0
203.201	8	1000	0	0
208.556	8	1000	0	0
172.572	8	1000	0	0
153.223	8	1000	0	0
125.86	8	1000	0	0
134.755	8	1000	0	0
183.987	8	1000	0	0
192.78	8	1000	0	0
183.987	8	1000	0	0
182.57	8	1000	0	0
182.57	8	1000	0	0
196.114	8	1000	0	0
196.114	8	1000	0	0
224.668	8	1000	0	0
100.577	8	1000	0	0
143.877	8	1000	0	0
172.173	8	1000	0	0
107.966	8	1000	0	0
183.987	8	1000	0	0
138.626	8	1000	0	0
172.173	8	1000	0	0
172.572	8	1000	0	0

208.556	8	1000	0	0
117.196	8	1000	0	0
100.577	8	1000	0	0
138.626	8	1000	0	0
92.633	8	1000	0	0
153.223	8	1000	0	0
160.675	8	1000	0	0
77.505	8	1000	0	0
192.78	8	1000	0	0
98.407	8	1000	0	0
149.492	8	1000	0	0
183.987	8	1000	0	0
117.196	8	1000	0	0
172.173	8	1000	0	0
56.819	8	1000	0	0
108.766	8	1000	0	0
63.436	8	1000	0	0
50.493	8	1000	0	0
149.492	8	1000	0	0
117.196	8	1000	0	0
70.334	8	1000	0	0
107.966	8	1000	0	0
138.626	8	1000	0	0
108.766	8	1000	0	0
117.86	8	1000	0	0
92.633	8	1000	0	0
117.86	8	1000	0	0
117.86	8	1000	0	0
70.334	8	1000	0	0
117.86	8	1000	0	0
160.675	8	1000	0	0
56.819	8	1000	0	0
70.334	8	1000	0	0
80.318	8	1000	0	0
117.86	8	1000	0	0
50.493	8	1000	0	0
89.189	8	1000	0	0
63.436	8	1000	0	0
63.436	8	1000	0	0
33.37	8	1000	0	0
56.819	8	1000	0	0
107.966	8	1000	0	0
84.94	8	1000	0	0
128.081	8	1000	0	0
98.407	8	1000	0	0
33.37	8	1000	0	0
100.577	8	1000	0	0

56.819	8	1000	0	0
80.318	8	1000	0	0
98.407	8	1000	0	0
48.532	8	1000	0	0
80.318	8	1000	0	0
56.819	8	1000	0	0
98.407	8	1000	0	0
44.468	8	1000	0	0
71.806	8	1000	0	0
98.407	8	1000	0	0
33.37	8	1000	0	0
80.318	8	1000	0	0
28.325	8	1000	0	0
98.407	8	1000	0	0
18.321	8	1000	0	0
55.899	8	1000	0	0
28.986	8	1000	0	0
48.532	8	1000	0	0
77.505	8	1000	0	0
55.899	8	1000	0	0
55.899	8	1000	0	0
71.806	8	1000	0	0
48.532	8	1000	0	0
35.054	8	1000	0	0
23.398	8	1000	0	0
48.532	8	1000	0	0
41.577	8	1000	0	0
55.899	8	1000	0	0
9.847	8	1000	0	0
13.791	8	1000	0	0
89.189	8	1000	0	0
23.398	8	1000	0	0
56.819	8	1000	0	0
23.398	8	1000	0	0
35.054	8	1000	0	0
63.662	8	1000	0	0
13.791	8	1000	0	0
33.37	8	1000	0	0
55.899	8	1000	0	0
23.398	8	1000	0	0
208.556	8	1000	0	0
196.114	8	1000	0	0
143.877	8	1000	0	0
221.315	8	1000	0	0
196.114	8	1000	0	0
162.789	8	1000	0	0
143.877	8	1000	0	0

235.712	8	1000	0	0
134.755	8	1000	0	0
134.755	8	1000	0	0
196.114	8	1000	0	0
208.556	8	1000	0	0
183.987	8	1000	0	0
182.57	8	1000	0	0
221.315	8	1000	0	0
221.315	8	1000	0	0
247.791	8	1000	0	0
196.114	8	1000	0	0
196.114	8	1000	0	0
192.78	8	1000	0	0
208.556	8	1000	0	0
183.987	8	1000	0	0
108.766	8	1000	0	0
183.987	8	1000	0	0
172.572	8	1000	0	0
203.201	8	1000	0	0
221.315	8	1000	0	0
92.633	8	1000	0	0
182.57	8	1000	0	0
192.78	8	1000	0	0
208.556	8	1000	0	0
196.114	8	1000	0	0
192.78	8	1000	0	0
153.223	8	1000	0	0
160.675	8	1000	0	0
203.201	8	1000	0	0
172.572	8	1000	0	0
203.201	8	1000	0	0
203.201	8	1000	0	0
221.315	8	1000	0	0
117.196	8	1000	0	0
183.987	8	1000	0	0
143.877	8	1000	0	0
134.755	8	1000	0	0
196.114	8	1000	0	0
92.633	8	1000	0	0
70.334	8	1000	0	0
117.86	8	1000	0	0
70.334	8	1000	0	0
196.114	8	1000	0	0
125.86	8	1000	0	0
107.966	8	1000	0	0
117.86	8	1000	0	0
117.196	8	1000	0	0

84.94	8	1000	0	0
56.819	8	1000	0	0
183.987	8	1000	0	0
100.577	8	1000	0	0
149.492	8	1000	0	0
128.081	8	1000	0	0
172.572	8	1000	0	0
117.196	8	1000	0	0
172.173	8	1000	0	0
117.86	8	1000	0	0
138.626	8	1000	0	0
98.407	8	1000	0	0
107.966	8	1000	0	0
138.626	8	1000	0	0
107.966	8	1000	0	0
128.081	8	1000	0	0
28.325	8	1000	0	0
98.407	8	1000	0	0
98.407	8	1000	0	0
63.436	8	1000	0	0
149.492	8	1000	0	0
89.189	8	1000	0	0
55.899	8	1000	0	0
89.189	8	1000	0	0
80.318	8	1000	0	0
50.493	8	1000	0	0
63.662	8	1000	0	0
100.577	8	1000	0	0
89.189	8	1000	0	0
63.662	8	1000	0	0
71.806	8	1000	0	0
63.662	8	1000	0	0
80.318	8	1000	0	0
33.37	8	1000	0	0
55.899	8	1000	0	0
35.054	8	1000	0	0
50.493	8	1000	0	0
48.532	8	1000	0	0
13.791	8	1000	0	0
28.986	8	1000	0	0
28.986	8	1000	0	0
35.054	8	1000	0	0
28.986	8	1000	0	0
48.532	8	1000	0	0
28.325	8	1000	0	0
23.636	8	1000	0	0
28.986	8	1000	0	0

23.398	8	1000	0	0
9.847	8	1000	0	0

Supplementary Table 4: Mapping of cyclin E-CDK2-dependent phosphosites or

Phosphorylation analysis of Oct4 using LC-MS/MS

ScanF	z	XCorr	Delta Corr	# Ions Matched	Total Ions	Reference
33419	2	3.284	0.096	25	32	sp Q01860
33447	3	2.582	0.142	34	64	sp Q01860
33923	2	3.064	0.174	23	32	sp Q01860
33950	3	3.093	0.109	34	64	sp Q01860
34430	2	3.793	0.13	23	32	sp Q01860
35515	3	2.721	0.286	27	64	sp Q01860
36008	2	1.717	0.075	13	32	sp Q01860
35629	2	1.061	0.226	11	32	sp Q01860
36112	2	2.897	0.208	22	32	sp Q01860
36260	3	3.207	0.141	26	64	sp Q01860
36622	2	2.591	0.23	17	32	sp Q01860
33494	3	1.967	0.072	22	72	sp Q01860
34426	2	3.341	0.128	21	36	sp Q01860
35028	3	2.622	0.103	26	72	sp Q01860
40123	2	1.902	0.766	13	22	sp Q01860
40936	2	2.319	0.623	18	22	sp Q01860
41027	1	1.599	0.339	14	22	sp Q01860
41902	2	2.505	0.736	17	22	sp Q01860
41926	1	1.15	0.01	11	22	sp Q01860
42416	2	2.673	0.556	16	22	sp Q01860
42670	2	2.305	0.723	18	22	sp Q01860
42719	1	1.555	0.178	11	22	sp Q01860
44176	2	1.806	0.74	14	22	sp Q01860
45022	2	1.959	0.664	16	22	sp Q01860
46248	2	1.972	0.781	13	22	sp Q01860
50730	2	1.757	0.392	11	22	sp Q01860
53477	2	1.566	0.986	10	22	sp Q01860
54370	2	2.008	0.797	14	22	sp Q01860
35654	2	1.611	0.859	12	22	sp Q01860
36192	2	2.179	0.658	18	22	sp Q01860
36735	2	1.98	0.777	15	22	sp Q01860
37344	2	1.534	0.714	10	22	sp Q01860
38046	2	1.057	0.866	10	22	sp Q01860
57669	2	4.248	0.225	20	44	sp Q01860
57707	3	2.855	0.138	26	88	sp Q01860
48274	2	2.123	0.511	10	38	sp Q01860

1 Nanog, Oct4 and Sox2.

Peptide	Gene Syml	ModScore	Max Score	Site 1 Posi	Site 1 Prot
E.AFPPVSVTTLGS#PM*HSN.-	E.AFPPVSV	186.739		12	355
E.AFPPVSVTTLGS#PM*HSN.-	E.AFPPVSV	154.883		12	355
E.AFPPVSVTTLGS#PM*HSN.-	E.AFPPVSV	174.768		12	355
E.AFPPVSVTTLGS#PM*HSN.-	E.AFPPVSV	127.287		12	355
E.AFPPVSVTTLGS#PM*HSN.-	E.AFPPVSV	186.739		12	355
E.AFPPVSVTTLGS#PM*HSN.-	E.AFPPVSV	101.783		12	355
E.AFPPVSVTTLGS#PM*HSN.-	E.AFPPVSV	42.426		12	355
E.AFPPVSVTTLGS#PMHSN.-	E.AFPPVSV	28.986		12	355
E.AFPPVSVTTLGS#PMHSN.-	E.AFPPVSV	172.173		12	355
E.AFPPVSVTTLGS#PMHSN.-	E.AFPPVSV	92.633		12	355
E.AFPPVSVTTLGS#PMHSN.-	E.AFPPVSV	138.626		12	355
E.GEAFPPVSVTTLGS#PM*HSN.-	E.GEAFPPV	63.447		14	355
E.GEAFPPVSVTTLGS#PM*HSN.-	E.GEAFPPV	109.145		14	355
E.GEAFPPVSVTTLGS#PM*HSN.-	E.GEAFPPV	29.333		14	355
S.DFAFS#PPPGGGG.D	S.DFAFS#P	69.276		5	12
S.DFAFS#PPPGGGG.D	S.DFAFS#P	134.26		5	12
S.DFAFS#PPPGGGG.D	S.DFAFS#P	68.033		5	12
S.DFAFS#PPPGGGG.D	S.DFAFS#P	122.281		5	12
S.DFAFS#PPPGGGG.D	S.DFAFS#P	44.973		5	12
S.DFAFS#PPPGGGG.D	S.DFAFS#P	60.102		5	12
S.DFAFS#PPPGGGG.D	S.DFAFS#P	99.688		5	12
S.DFAFS#PPPGGGG.D	S.DFAFS#P	44.973		5	12
S.DFAFS#PPPGGGG.D	S.DFAFS#P	78.939		5	12
S.DFAFS#PPPGGGG.D	S.DFAFS#P	78.939		5	12
S.DFAFS#PPPGGGG.D	S.DFAFS#P	22.329		5	12
S.DFAFS#PPPGGGG.D	S.DFAFS#P	22.329		5	12
S.DFAFS#PPPGGGG.D	S.DFAFS#P	60.102		5	12
S.DFAFS#PPPGGGG.D	S.DFAFS#P	78.939		5	12
S.DFAFS#PPPGGGG.D	S.DFAFS#P	78.939		5	12
S.DFAFS#PPPGGGG.D	S.DFAFS#P	134.26		5	12
S.DFAFS#PPPGGGG.D	S.DFAFS#P	78.939		5	12
S.DFAFS#PPPGGGG.D	S.DFAFS#P	51.436		5	12
S.DFAFS#PPPGGGG.D	S.DFAFS#P	51.436		5	12
S.DFAFS#PPPGGGGDGPGGPEPGWV.D	S.DFAFS#P	104.939		5	12
S.DFAFS#PPPGGGGDGPGGPEPGWV.D	S.DFAFS#P	71.143		5	12
F.SGGPVSFPLAPGPHFGT#PGY.G	F.SGGPVSF	41.743		17	322

Site 1 Score

48.315

28.529

48.315

19.846

34.073

28.529

13.38

24.243

53.534

19.846

34.073

13.208

20.167

13.208

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

20.625

Supplementary Table 4: Mapping of cyclin E-CDK2-dependent phosphosites on Nanog, Oct4 and

ScanF	Mass spectra scan number
z	Charge state
XCorr	Sequest peptide score
Delta Corr	Delta correlation (difference between Xcorr for peptide 1 and next peptide wit
# Ions matched	Number of ions matched from total number of ions for a given peptide
Total	Total number ions theoretically possible
Reference	Gene reference from Uniprot database
Peptide	Peptide sequence
ModScore Peptide	Peptide with localised phosphorylation site localized (site indicated by a # sign
Max Score	Maximum Modscore to indicate the maximum score for a given peptide
Site 1 Position	Position of phosphorylation site in the peptide sequence for first site
Site 1 Protein Position	Positon in protein sequence for site 1
Site 1 Score	Score for the localisation of the phosphorylation site for the first site in the se
Site 2 Protein Position	Positon in protein sequence for site 2
Site 2 Position	Position of phosphorylation site in the peptide sequence for second site (if ap
Site 2 Score	Score for the localisation of the phosphorylation site for the second site in the

1 Sox2.

:h different peptide sequence)

1)

quence

plicable)

: sequence (if applicable)

Supplementary Table 5: Statistics source date

Figure 1b		(x100,000)	(x100,000)	(x100,000)
Ctrl	Day 1	1.64	1.62	1.47
	Day 2	5.19	4.94	4.28
	Day 3	14	13.18	11.25
	Day 4	23.3	26.6	21.7
	Day 5	32.7	28.5	32.7
Q-KO	Day 1	1.43	1.53	1.53
	Day 2	2.96	3.08	3.32
	Day 3	6.62	8.8	8.5
	Day 4	15.4	16.2	17.6
	Day 5	18.9	20.8	22.8

Figure 1d					
Ctrl	G1	14.7	16.4	14.1	15
	S	76.8	73.1	76	76.9
	G2/M	8.5	10.5	9.9	8.1
Q-KO	G1	42.9	44.1	41.1	47.4
	S	47.5	47.4	44.6	39.5
	G2/M	9.6	8.5	14.3	13.1

Figure 1e				
Ctrl	G1	3	3.5	2.5
	S	6	6.5	6
	G2/M	2.5	2.5	2.5
Q-KO	G1	6	6	7
	S	6	6	6
	G2/M	3.5	2.5	2

Figure 2b				
Ctrl	Day 1	29750	35650	38750
	Day 3	76325	77000	81775
	Day 5	128790	130230	125280
	Day 7	131910	138690	122880
Q-KO	Day 1	24824	29150	33225
	Day 3	35925	34750	35400
	Day 5	31140	29550	28650
	Day 7	33000	33840	25230

Figure 2c

Ctrl	10678	10020	11473
Q-KO	490	425	504

Figure 2e

Ctrl	G1	67	66.5	66.8
	S	10.1	16	13
	G2/M	22.9	17.5	20.2
Q-KO	G1	86.1	77.5	81.9
	S	2.9	3	2.9
	G2/M	11	19.5	15.2

Figure 3b

	Undifferentia	Mixed (%)	Differentiated (%)
Ctrl1	87.1657754	9.09090909	3.74331551
	88.8888889	8.1871345	2.92397661
	85.3773585	9.90566038	4.71698113
Ctrl2	86.1413043	10.326087	3.5326087
	86.1702128	10.106383	3.72340426
	84.9372385	10.460251	4.60251046
Ctrl3	88.4792627	9.44700461	2.07373272
	86.6666667	10.877193	2.45614035
	85.3754941	12.6482213	1.97628458
Q-KO1	35.8974359	38.4615385	25.6410256
	33.5365854	39.0243902	27.4390244
	33.3333333	39.6825397	26.984127
Q-KO2	34.1772152	29.4303797	36.3924051
	39.8230088	37.6106195	22.5663717
	33.0097087	32.038835	34.9514563
Q-KO2	28.3950617	30.0411523	41.563786
	25	32.4074074	42.5925926
	24.8322148	30.2013423	44.966443

Figure 3f

	Undifferentia	Mixed (%)	Differentiated (%)
Ctrl	87.2508402	9.57247679	3.17668297
	86.7724868	9.52380952	3.7037037
	88.2075472	9.66981132	2.12264151
D-KO	83.1325301	13.253012	3.61445783
	78.5425101	16.5991903	4.8582996
	76.7716535	20.4724409	2.75590551

E-KO	72.4014337	22.5806452	5.01792115
	73.3333333	22.3809524	4.28571429
	78.1990521	17.535545	4.26540284
Q-KO	34.1463415	39.0243902	26.8292683
	33.75	29.0625	37.1875
	28.2786885	30.3278689	41.3934426

Figure 3g

Ctrl	3.17668297	3.7037037	2.12264151
D-KO	3.61445783	4.8582996	2.75590551
E-KO	5.01792115	4.28571429	4.06540284
Q-KO	26.8292683	37.1875	41.3934426

Figure 3h

Ctrl	Undifferentiated	33.4943639	34.4173442	33.5981839
	Mixed (%)	23.9935588	23.4417344	22.2474461
	Differentiated	42.5120773	42.1409214	44.15437
Q-KO	Undifferentiated	57.4887892	71.3942308	61.0778443
	Mixed (%)	20.8071749	13.4615385	17.7644711
	Differentiated	21.7040359	15.1442308	21.1576846

Figure 4a

Ctrl	Nanog	1.07922824	0.952638	0.9794203
	Oct4	0.9862327	1.02811383	0.9794203
	Sox2	1.17283495	0.952638	0.88884268
	Cdx2	1.03526492	0.96593633	1.00060063
	Ehox	0.882703	1.12505848	1.00388074
	Eomes	1.01395948	0.9930925	1.00352599
	Pax6	0.6359565	1.0118532	1.55509207
	Nestin	1.24833055	0.88884268	0.90751916
	Ngn2	1.75321144	0.57038186	1.16179665
	Fgf5	1.32868581	0.75262337	1.04065459
	Sox1	1.01045145	0.98965666	1.00005405
	Brachyury	1.11728714	1.17283495	0.9631296
	Hand1	0.93952275	1.07177346	1.00564811
	Goosecoid	1.40524675	0.66896378	0.98710526
	Runx1	1.22264028	0.73713461	1.10190512
	Sox17	1.39474367	0.87660572	0.82359102
	Gata4	1.02101213	0.8794203	1.27660572
	Gata6	1	1.0794223	0.90210121
	Sox9	0.63728031	0.87660572	1.28920712

Q-KO	Nanog	0.9930925	1.08673486	1.03991368
	Oct4	1.04246576	0.90751916	0.97499246
	Sox2	0.74742462	1.0942937	0.92085916
	Cdx2	18.1261422	14.2214829	17.1738125
	Ehox	7.43426175	6.73208051	7.08317113
	Eomes	8.39773347	9.44794129	8.92283738
	Pax6	12.7021429	7.50056877	12.1013558
	Nestin	2	1.91852824	1.95926412
	Ngn2	0.51763246	0.4413515	0.47949198
	Fgf5	0.53218509	0.75785828	0.64502169
	Sox1	0.30145196	0.94605765	0.6237548
	Brachyury	2.46228883	1.47768536	1.71998709
	Hand1	1.40444488	1.00580783	1.30512635
	Goosecoid	1.9668518	1.40841423	1.77263301
	Runx1	1.72078681	2.00381023	1.31229852
	Sox17	0.66896378	0.73204285	0.70050331
	Gata4	0.58236679	0.53588673	0.55912676
	Gata6	1.04971668	1.15668818	1.10320243
	Sox9	2.02946717	1.69349062	1.3114789

Figure 4g

Ctrl	0.4709
	1.1087
	1.4191
Q-KO	6.230504
	5.014804
	3.109504

Figure 7b

Nanog	Ctrl	1	1	1	1
	Q-KO	2.81419647	2.28973075	7.41720206	7.88195681
Oct4	Ctrl	1	1	1	1
	Q-KO	6.26659693	12.9185717	7.74759502	8.74011802

Figure 8b

Ctrl/VO	Nanog	1.0942937	1.02811383	0.90751916
	Oct4	1.10190512	0.93303299	0.97265495
	Sox2	1.00695555	1.00695555	0.9794203
Ctrl/CVT-313	Nanog	1.37554182	1.17283495	1.18099266
	Oct4	1.05701804	1.01395948	1.03526492
	Sox2	1.12505848	1.61328352	1.39474367

J1/VO	Nanog	0.84674531	0.97265495	1.13288389
	Oct4	0.90751916	0.9794203	1.12505848
	Sox2	0.92018765	1.02101213	1.07177346
J1/CVT-313	Nanog	1.77768536	1.72907446	1.905276
	Oct4	1.22264028	1.43395525	1.35660433
	Sox2	1.12505848	1.10190512	1.13288389
V6.5/VO	Nanog	0.94605765	1.18099266	1.02811383
	Oct4	0.97265495	1.02101213	1.00695555
	Sox2	1.08673486	1.10190512	0.83508792
V6.5/CVT-313	Nanog	1.63580412	1.70526978	1.81503831
	Oct4	1.13288389	1.07177346	1.25701337
	Sox2	1.8276629	1.48452357	1.47426922

Figure 8d

BT74	VO	0.92018765	1.02811383	1.04971668
	CVT-313	1.00695555	1.04246576	1.01395948
BT112	VO	0.91193317	1.02597815	1.06954709
	CVT-313	1.48864526	1.60658799	1.65175533
BT182	VO	0.92018765	1.11728714	0.97265495
	CVT-313	1.02101213	0.96593633	1.01395948
BT248	VO	1.0942937	0.9794203	0.93952275
	CVT-313	1.06437018	1.10956947	0.84674531

Figure 8g

CAL51	VO	0.95926412	1.13288389	0.92658806
	CVT-313	1.06437018	1.22264028	0.7737825
MDA-MB-436	VO	1.13288389	0.96593633	0.92018765
	CVT-313	1.60213976	1.51571657	1.71713087
HCC38	VO	1	1.03526492	0.96593633
	CVT-313	1.32868581	1.47426922	1.4640857

Supplementary Figure 1e

Ctrl	%	#1	#2	#3	#4
	G1	14.7	16.4	14.1	15
	S	76.8	73.1	76	76.9
	G2/M	8.5	10.5	9.9	8.1
D-KO	G1	20.2	19.5	19.7	19.4
	S	70.75	72.5	72.6	72.8
	G2/M	9.1	8	7.7	7.8
E-KO	G1	26.4	27	30.1	28.5
	S	62.4	58.3	58.4	63.2

	G2/M	11.2	14.7	11.5	8.3
Q-KO	G1	42.9	44.1	41.1	47.4
	S	47.5	47.4	44.6	39.5
	G2/M	9.6	8.5	14.3	13.1

Supplementary Figure 2a

Ctrl	Nanog	1.07922824	0.952638	0.9794203
	Oct4	0.9862327	1.02811383	0.9794203
	Sox2	1.17283495	0.952638	0.88884268
	Cdx2	1.03526492	0.96593633	1.00060063
	Ehox	0.882703	1.12505848	1.00388074
	Eomes	1.01395948	0.9930925	1.00352599
	Pax6	0.6359565	1.0118532	1.55509207
E-KO	Nanog	1.47938751	0.80944222	1.14341486
	Oct4	1.01395948	1	1.01697974
	Sox2	0.95926412	1.00695555	0.98410984
	Cdx2	2.54030197	1.82133967	2.18182082
	Ehox	2.337554497	2.4032721	2.3804133
	Eomes	0.92338231	1.21841026	1.08089629
	Pax6	0.71946679	0.77110541	0.74528
D-KO	Nanog	0.94605765	1.00153784	1.06701804
	Oct4	1.02455682	1.00029429	0.98603176
	Sox2	0.95594532	1.10101513	1.04608494
	Cdx2	0.85559503	1.04848622	1.26137741
	Ehox	0.52374196	0.52965433	0.73556671
	Eomes	1.43893358	1.22867192	1.21841026
	Pax6	2.15098878	1.8988767	1.84676462
Q-KO	Nanog	0.9930925	1.08673486	1.03991368
	Oct4	1.04246576	0.90751916	0.97499246
	Sox2	0.74742462	1.0942937	0.92085916
	Cdx2	18.1261422	14.2214829	17.1738125
	Ehox	7.43426175	6.73208051	7.08317113
	Eomes	8.39773347	9.44794129	8.92283738
	Pax6	12.7021429	7.50056877	12.1013558

Supplementary Figure 2b

	%	%	%
Nanog	100	100	100
	61.6563927	63.9195159	67.088579
	82.6631581	77.6259607	82.4770409
	17.7949434	16.7914647	17.7404704

Oct4	100	100	100
	45.9879495	42.724249	44.454272
	55.0914509	50.3689053	51.1838931
	11.6137503	9.12669809	10.3537471
Sox2	100	100	100
	70.8409702	69.0953463	72.9302097
	30.2643962	27.8571975	28.6801388
	3.34912465	2.75751627	3.06624276

Supplementary Figure 4b

Ctrl	0	0	0
	-0.8470488	-0.5041392	-0.2339147
	-0.8711556	-1.3169966	-0.7487569
	-1.6518364	-1.4905396	-1.4144238
	-2.0601632	-1.8108432	-1.4668305
	-2.5901462	-2.5292092	-1.6510955
	-4.779929	-2.3818286	-2.3751193
Q-KO	0	0	0
	-1.2041213	-1.6569044	-0.741492
	-1.9296656	-2.4534877	-2.2668396
	-2.8615835	-4.9689996	-3.7163974
	-4.0580617	-6.3393018	-3.2274411
	-4.5034921	-5.671675	-4.092867
	-4.8484012	-6.7235202	-5.1608334

Supplementary Figure 4c

Ctrl	0	0	0
	-0.4062743	-0.4933422	-0.3923757
	-0.2919817	-0.6293816	-0.5898413
	-0.8640625	-0.6945423	-0.7199832
	-1.3120184	-0.7885742	-1.0896771
	-1.4396391	-1.2057118	-1.5151601
	-3.0729481	-1.67579	-1.6311879
Q-KO	0	0	0
	-0.0074194	-1.1555429	-0.9248671
	-0.6016694	-1.6938093	-1.6174814
	-1.4442862	-3.6893651	-2.638045
	-1.9767007	-4.8071362	-4.8458134
	-2.2128046	-4.8186812	-4.8915563
	-5.4165666	-6.9687505	-5.4691288

Supplementary Figure 4d

Ctrl	0	0	0
	-0.3690493	-0.03347521	0.07826603
	-0.1674004	-0.03603860	-0.0123246
	-0.2942481	-0.06704950	0.24088477
	-0.526489	-0.04241135	-0.3511051
	-1.6934622	-0.22078644	-0.9676764
	-2.1337967	-3.36395896	-1.6444182
Q-KO	0	0	0
	-0.6628446	-0.9428382	-0.8964172
	-3.863306	-1.4009725	-2.2176712
	-3.0954171	-2.4543299	-2.4383586
	-3.3440047	-2.0643348	-2.5210756
	-3.1338288	-2.7724477	-3.262071
	-3.8847819	-6.1879054	-5.2451342

Supplementary Figure 5b

	WT	4A	4E
0	0	0	0
1	-0.7434058	-0.8030555	-0.0745015
2	-1.410583	-2.3939384	-0.696064
3	-2.1671003	-4.4471256	-1.0049311

Supplementary Figure 5d

	WT	3A	3E
0	0	0	0
1	-0.4732316	-1.59494	-0.108865
2	-0.3922983	-2.6702565	-0.0434846
3	-1.0056984	-3.1479708	-0.1979352

Supplementary Figure 5f

	WT	4A	4E
0	0	0	0
2	-0.7658248	-2.5046622	-0.110323
4	-0.6000059	-3.0607566	-0.3402993
7	-2.0295322	-2.8491202	-0.4526407

Supplementary Figure 6a

	%	%	%
Nanog	27.3193653	25.387138	14.4338805
Oct4	37.2909096	31.9897935	49.5223843

Sox2 4.19952836 17.7571212 7.90677325

Supplementary Figure 7a

	VO	CVT-313
BT74	9.4	17
	10.4	14.6
	17.8	13.5
BT112	31.4	23.2
	25.6	28.9
	27.7	35.2
BT182	8.2	26.5
	5.6	24.6
	5.4	23.3
BT248	12.4	12.9
	12.3	12.5
	11.3	14.9
MDA-MB-436	12.5	11.8
	5.7	9.3
	5.2	7.8
HCC38	16.2	44.4
	18.8	44.5
	18.1	40.4
CAL51	17.4	30
	11.9	12.1
	20.4	22.6

Supplementary Figure 7b

		G1	S	G2/M
BT74	No CVT	45.8	44.5	9.7
		49.1	42.9	8
		49.5	43.2	7.3
	CVT10	70.1	8.3	21.6
		62.5	20	17.5
		64.8	18.2	17
BT112	No CVT	46.5	36.5	17
		59.7	22.5	17.8
		51.9	29.5	18.6
	CVT10	64.3	9.3	26.4
		68.4	1.8	29.8
		61	6.5	32.5
BT182	No CVT	68.7	26	5.3

		60.4	28.8	10.8
		61.2	28.2	10.6
	CVT10	66.7	1.3	32
		61.1	9.2	29.7
		66.9	7.2	25.9
BT248	No CVT	69.4	19.3	11.3
		73.7	20.1	6.2
		78	15.5	6.5
	CVT10	79.5	1	19.5
		73.3	4.2	22.5
		77.9	3.2	18.9

Supplementary Figure 7c

		G1	S	G2/M
MDA-MB-436	No CVT	39.1	17.1	43.8
		31.8	11.2	57
		52.5	11.5	36
	CVT10	41.7	8.3	50
		33.3	3.2	63.5
		51.5	2.5	46
HCC38	No CVT	64.4	26.3	9.3
		67.9	23.3	8.8
		66.3	24.1	9.6
	CVT10	54.5	9.3	36.2
		55.2	8.1	36.7
		54.8	9.4	35.8
CAL51	No CVT	32.6	55.3	12.1
		37.5	46	16.5
		33.2	53.6	13.2
	CVT10	34.2	43.1	22.7
		33.4	46.1	20.5
		30	52.5	17.5

Supplementary Figure 8a

Apoptosis	VO	CVT10
HA ctrl	10.1	14.4
	11.8	15.5
	7.4	10.3
HA Sox2 EE	8.4	11.6
	9.5	10.4
	9.8	13.2

	G1	S	G2/M
HA ctrl/VO	41	19.2	39.8
	39.5	17.2	43.3
	42.3	16.9	40.8
HA ctrl/CVT-3	42.1	5.7	52.2
	40.2	9.2	50.6
	39.2	8.4	52.4
HA Sox2 EE/v	36.6	19.3	44.1
	39.3	17.9	42.8
	40.4	19.5	40.1
HA Sox2 EE/C	40.1	4.7	55.2
	43.9	6.1	50
	41.2	4.6	54.2

Supplementary Figure 8b

Apoptosis	VO	CVT10	
HA ctrl	15.8	38.8	
	13.4	27.9	
	13.9	30.2	
HA Sox2 EE	17.1	41.6	
	17.6	35.6	
	17.2	32.4	
	G1	S	G2/M
HA ctrl/VO	69	20.3	10.7
	64.5	22	13.5
	67.2	20.3	12.5
HA ctrl/CVT-3	60.1	11.2	28.7
	53.8	10.2	36
	56.3	9.8	33.9
HA Sox2 EE/v	68.5	21	10.5
	67.1	19.2	13.7
	67.5	20	12.5
HA Sox2 EE/C	48.4	12.7	38.9
	50.1	10.9	39
	47.9	12.8	39.3

Supplementary Figure 8c

Apoptosis	VO	CVT10
HA ctrl	16.3	25.5
	13.9	19.4
	12	18.7

HA Oct4 EE	14.1	24	
	13.6	17.8	
	15.1	22.9	
	G1	S	G2/M
HA ctrl/VO	39.1	48.7	12.2
	25.5	56.7	17.8
	30.3	54.8	14.9
HA ctrl/CVT-3	33.9	50.1	16
	29.2	53.3	17.5
	31.8	54.1	14.1
HA Oct4 EE/v	35.3	52.3	12.4
	36.5	48.5	15
	35.1	46.8	18.1
HA Oct4 EE/C	34.3	51.5	14.2
	34.7	47.3	18
	38.5	50.5	11