

Gene Symbol	ImChief Expression Level	ImSPEM Expression Level	Fold change
Ppbp	5.91	13.85	244.85
Krt5	6.81	13.80	127.20
Mal2	5.85	12.68	113.25
Krt6a	6.61	13.17	94.35
Trim29	6.60	13.07	89.06
Cldn4	7.28	13.48	73.53
Dsg3	5.81	11.99	72.20
Spink5	6.18	12.32	70.83
Rab25	6.76	12.77	64.46
Vsnl1	6.79	12.77	63.39
Krt14	7.57	13.50	61.07
Krt17	7.60	13.53	60.73
Tacstd2	6.68	12.58	59.53
Serpinb5	5.84	11.70	57.83
Il1a	5.29	11.13	57.20
Xist	5.87	11.71	57.18
Dsp	6.64	12.47	57.00
Cdh1	6.76	12.44	51.21
Cdh3	6.67	12.26	48.17
Trex2	6.81	12.32	45.36
Mpzl2	6.47	11.97	45.34
Plet1	7.35	12.85	45.01
Rab15	6.46	11.89	43.22
Clic3	7.01	12.41	42.06
Gpx2	6.53	11.90	41.43
S100a14	6.58	11.93	40.85
Nipal2	5.60	10.91	39.73
Tspan6	6.37	11.67	39.54
Krt6b	6.11	11.31	36.67
Cwh43	6.42	11.55	35.20
Krt15	7.13	12.25	34.85
Krt7	8.19	13.28	34.09
Gabrp	6.46	11.55	34.05
Ehf	6.55	11.57	32.46
Wfdc2/He4	7.01	12.01	31.89
Vnn1	7.37	12.35	31.54
Esrp1	5.90	10.86	31.13
Tmc4	7.14	12.07	30.57
Gsta4	8.35	13.27	30.25
Lass3	6.04	10.91	29.17
Cxcl5	6.02	10.87	28.77
Serinc2	7.97	12.79	28.19
Tns4	6.70	11.47	27.41
Ap1m2	6.19	10.95	27.05
Irf6	6.54	11.28	26.83
Elf3	6.38	11.10	26.40
Sncg	7.57	12.29	26.33
Fgfbp1	6.43	11.15	26.25
Tmprss11e	5.81	10.51	26.09
Pstpip2 F830208F22R			
ik	5.71	10.38	25.43
Spr3	6.20	10.84	24.84

Sorbs2	6.74	11.36	24.66
Tmprss11bnl	5.80	10.40	24.36
Lad1	6.93	11.52	24.16
Ankrd22	6.26	10.84	24.02
Pdzk1ip1	7.19	11.74	23.53
Mall	6.93	11.44	22.80
Pof1b	5.33	9.82	22.56
Ripk4	6.57	11.06	22.48
Kcnk1	7.02	11.46	21.81
Gm10786	5.49	9.93	21.67
Slc6a14	5.40	9.84	21.62
Sprr2d	6.77	11.20	21.59
Gpr87	6.32	10.74	21.44
Itgb6	5.72	10.14	21.44
Elovl6	7.08	11.47	20.88
Epcam	5.95	10.33	20.87
Sprr2j-ps	5.83	10.21	20.85
Pkp1	7.48	11.86	20.79
Psap1	7.11	11.48	20.69
Has2	6.92	11.27	20.29
Palmd	7.53	11.86	20.01
Vtcn1	6.50	10.82	20.01
Prss27	7.71	12.03	19.98
Spint2	7.23	11.54	19.88
Sprr1b	7.86	12.16	19.70
Sfn	7.82	12.12	19.65
Hsd17b7	7.72	12.00	19.39
9930023K05Rik	5.68	9.95	19.26
Lypd3	7.30	11.53	18.88
Prkch	6.44	10.68	18.84
Ildr1	6.82	11.05	18.74
Thbs1	9.23	13.45	18.62
Ccnd2	9.04	13.25	18.57
Spint1	8.25	12.45	18.39
Ptprf	7.30	11.50	18.37
Mal	7.78	11.94	17.88
9530008L14Rik	5.89	10.05	17.77
2310002L13Rik	7.05	11.19	17.65
Macc1	5.42	9.56	17.56
Hmgcl1	5.48	9.62	17.54
Pitx1	7.67	11.78	17.34
Plagl1	7.33	11.42	17.04
Tmprss13	6.56	10.63	16.81
Slc12a2	7.81	11.86	16.55
Defb14	5.20	9.20	16.06
Plcg2	6.70	10.70	15.96
5730469M10Rik	7.30	11.27	15.70
Il17re	6.96	10.93	15.68
Ltf	8.51	12.47	15.58
Perp	8.94	12.90	15.51
Ly6d	9.36	13.31	15.48
Ocln	5.93	9.88	15.41
Nt5e	6.28	10.22	15.33
Rnf144b	7.47	11.40	15.16
2310007B03Rik	6.63	10.55	15.12

Sh3bgrl2	7.32	11.24	15.10
Cdcp1	6.69	10.60	15.01
Il24	6.28	10.14	14.50
Sfn	7.82	11.68	14.48
Fxyd3 Lgi4	7.64	11.50	14.47
Lamc2	6.86	10.71	14.39
Cln3 LOC100047702			
LOC100048243	7.30	11.13	14.19
AU042651	7.45	11.26	14.05
1190003J15Rik	7.12	10.92	13.89
Acpp	6.36	10.12	13.56
2310043J07Rik	6.72	10.47	13.51
4833423E24Rik	6.04	9.80	13.49
Cdh13	6.79	10.53	13.34
Tmem54	6.90	10.62	13.23
Fam83b	5.82	9.54	13.17
Parp8	6.88	10.58	12.97
Sostdc1	6.21	9.91	12.93
Bcar3	6.83	10.51	12.81
Tmem40	7.00	10.67	12.77
Rassf9	5.32	8.99	12.75
Bdh1	6.60	10.27	12.74
Nuak1	7.47	11.13	12.70
Tmc7	6.62	10.28	12.66
Serpinb10	8.18	11.84	12.65
Tmem102 G630025P			
09Rik	6.48	10.13	12.51
Clca5	6.00	9.64	12.47
Tnip3	6.58	10.20	12.35
Slc1a1	6.23	9.85	12.29
Pi15	5.70	9.32	12.28
Tspan1	6.01	9.61	12.07
Slc25a43	7.37	10.95	11.95
Fbxo36	8.74	12.31	11.92
Ly6g6c	7.27	10.84	11.92
Fermt1	6.10	9.66	11.82
Prss8	6.66	10.21	11.69
Slc46a1	7.07	10.61	11.66
Sox9	8.25	11.78	11.59
Rac3	7.71	11.24	11.57
Esrp2	7.60	11.12	11.47
Niacr1	6.14	9.65	11.40
Adam8	7.86	11.37	11.39
Muc15	5.80	9.31	11.36
Tfrc	6.65	10.14	11.23
Grb7	6.88	10.36	11.11
Sox11	6.14	9.60	11.06
Muc1	7.10	10.55	10.96
Wnt7b	6.56	10.01	10.91
Epb4.1l4a	6.21	9.66	10.90
Galnt3	6.61	10.05	10.84
Lgals3	8.53	11.97	10.81
Atp8b1	6.11	9.54	10.81
Sorl1	6.94	10.37	10.75
Cadm1	6.94	10.37	10.73

Tcfap2a	6.38	9.79	10.69
1810019J16Rik	6.63	10.04	10.62
Clip4	7.01	10.41	10.60
Cblc	6.80	10.20	10.58
Eps8l2 B230206H07R			
ik	7.40	10.80	10.56
Epha1	6.48	9.88	10.55
Tnfrsf22	7.73	11.11	10.43
Col17a1	7.16	10.54	10.40
Kdm5b	6.79	10.16	10.34
Sulf1	6.55	9.91	10.24
Lsr	7.19	10.54	10.19
Plscr2	7.75	11.09	10.14
AA986860	6.67	10.00	10.07
Capsl	5.54	8.87	10.06
Marveld3	6.41	9.74	10.05
Etl4	6.58	9.90	10.01
Mgat4a	5.54	8.86	9.99
Mpzl3	6.62	9.91	9.79
Dcbld1	6.70	9.99	9.78
Snrpn Snurf	5.98	9.26	9.70
Foxa1	7.19	10.46	9.66
Dhcr24	9.45	12.71	9.61
Pglyrp1	7.45	10.71	9.60
Ak3l1	7.08	10.34	9.57
Pdzrn3	6.64	9.89	9.54
Glipr1 Krr1	6.54	9.78	9.49
Casq2	5.73	8.96	9.42
	6.04	9.27	9.38
1810011O10Rik	6.32	9.55	9.35
Sort1	8.08	11.31	9.35
Sult2b1	6.60	9.82	9.30
Obfc2a	7.81	11.01	9.18
Serpinb9	9.60	12.78	9.09
BC037703	6.26	9.44	9.09
Plekha1	7.14	10.31	9.01
Grhl2	6.20	9.36	8.97
Fam60a	8.53	11.68	8.92
Ptprz1	5.32	8.47	8.91
Dsg2	6.09	9.24	8.87
Tiam1	6.96	10.10	8.82
Hook1	5.89	9.02	8.79
Abca12	6.16	9.29	8.73
Cxcl16 Zmynd15	8.37	11.48	8.68
Atxn1	6.52	9.63	8.65
Lamb3	7.18	10.29	8.63
Gpr56	7.25	10.36	8.59
Col8a1	7.28	10.38	8.58
Aldh3b2	6.68	9.78	8.57
Cpm	5.93	9.02	8.52
Wnt7a	6.62	9.71	8.51
Ppp2r2c	7.41	10.50	8.51
Mrgprb2	5.31	8.39	8.46
Trp63	7.15	10.22	8.38
Srd5a1	8.56	11.62	8.36

Elovl4	6.92	9.98	8.35
Kcnj15	8.65	11.71	8.32
P2ry2	7.11	10.17	8.30
Mboat2	7.37	10.42	8.29
Mctp1	5.52	8.57	8.25
Fam60a	8.47	11.51	8.25
Hoxc6	6.33	9.37	8.22
Klk1b11	6.59	9.62	8.21
Trim13	7.69	10.72	8.15
Runx1	8.74	11.76	8.09
Tmem171	7.54	10.55	8.04
Il18r1	5.64	8.63	7.98
Ston2	6.92	9.91	7.94
Hnf1b	6.28	9.26	7.90
Krt13	7.10	10.08	7.87
Sema4d	6.63	9.60	7.85
Spns2	7.65	10.61	7.82
Gsto1	10.81	13.77	7.79
Plek2	6.27	9.23	7.77
Il13ra1	6.08	9.03	7.71
Prss22	7.09	10.03	7.67
Tgm1	7.14	10.08	7.64
Fam188a	9.01	11.93	7.57
Dpyd	5.82	8.74	7.57
Pbx1	8.05	10.96	7.55
Ifi202b	4.94	7.85	7.53
Rin2	7.79	10.70	7.51
Clca4	6.62	9.52	7.49
Gpr115	5.34	8.23	7.45
Ankk1	6.35	9.24	7.41
Elovl7	7.00	9.89	7.40
Lphn2 LOC10004805			
0	7.53	10.41	7.39
Sox2	6.29	9.17	7.36
Osbpl3	8.74	11.62	7.35
Fst Thrap3	9.67	12.53	7.26
Def6	7.25	10.10	7.21
Atp2b4	7.02	9.87	7.21
Psca	10.47	13.32	7.19
Bnk	6.48	9.32	7.18
Wnt10a	8.15	10.99	7.15
Cyp51	7.37	10.20	7.15
Edn1	7.19	10.02	7.11
Sc4mol	9.36	12.17	7.05
Cish	7.21	10.02	6.98
Myo5b	6.63	9.43	6.97
Ptpn13	8.01	10.81	6.95
Pcdhb16	6.04	8.83	6.94
Pawr	6.67	9.45	6.89
Tmeff1	7.01	9.79	6.87
Sh3rf2	7.83	10.61	6.84
Itgb5	9.23	12.01	6.84
Galnt7	7.02	9.79	6.81
Bnip3	8.13	10.88	6.72
Rdh10	8.11	10.85	6.67

Gm3579	10.93	13.66	6.66
Gm3579	10.93	13.66	6.66
Nsdhl	8.96	11.69	6.64
Marveld2	6.23	8.96	6.63
Cpox	8.92	11.65	6.62
Cxcl1	8.50	11.23	6.62
Bst1	6.33	9.05	6.61
Mapk13	7.46	10.17	6.58
Duoxa1 Duoxa2	7.35	10.05	6.52
Sqle	7.65	10.34	6.45
Atp1b1	8.44	11.13	6.43
Samd12	7.80	10.48	6.40
Padi3	7.60	10.28	6.39
Mxd1	8.60	11.28	6.38
Ppp3ca	8.85	11.53	6.37
A630095E13Rik	5.57	8.24	6.37
Pcdh1	6.40	9.07	6.35
Tnnt2	8.70	11.36	6.34
Tmem79	6.83	9.50	6.33
Erb3	7.67	10.32	6.28
Clu	9.54	12.19	6.27
Tes	8.17	10.82	6.25
Kifc3	8.19	10.83	6.24
Lama3	6.73	9.37	6.21
Kcnn4	7.92	10.56	6.20
Inadl	6.66	9.28	6.18
Defb3	6.40	9.02	6.16
Reep6	9.36	11.97	6.12
Aldh3a1	6.90	9.50	6.07
Igsf9	6.96	9.56	6.04
Met	8.77	11.36	6.01
Rab17	8.14	10.72	6.00
Rbms3	6.79	9.37	5.99
Pvrl1	9.32	11.90	5.99
Sdr42e1	5.98	8.55	5.97
P2ry14	6.43	9.01	5.96
2610528J11Rik	6.14	8.70	5.93
Ube2f Gm5434	8.62	11.18	5.91
AU018091	6.37	8.93	5.91
Pglyrp3	6.60	9.16	5.89
Prkar2b	7.11	9.66	5.85
Atp10b	6.68	9.23	5.84
Npnt	7.35	9.89	5.84
Mctp2	5.43	7.98	5.84
Hmgcs1	8.53	11.07	5.83
Ttc12	6.78	9.33	5.82
Phlda2	7.31	9.85	5.80
Inhbb	6.96	9.50	5.80
Exph5	5.81	8.33	5.75
Cnksr1	6.96	9.48	5.74
Tmem141	8.27	10.78	5.72
Shroom3	7.32	9.83	5.68
Pls3	10.10	12.60	5.66
Copg2	9.02	11.52	5.66
Aspa	5.19	7.69	5.65

Tjp2	8.53	11.02	5.62
Lphn2 LOC10004805			
0	5.84	8.33	5.61
Pak6	6.80	9.29	5.58
1700001C19Rik AI66			
1453	6.63	9.11	5.57
Taf13	7.01	9.48	5.57
Mill1	6.53	9.01	5.57
Plekhh1	6.89	9.37	5.57
Lrrc26	7.03	9.50	5.55
AA467197 Mir147	7.39	9.85	5.51
Dynlt3	8.52	10.97	5.49
Syt8	7.34	9.79	5.48
Prdx3	8.31	10.76	5.46
Cd14	7.62	10.06	5.42
Gramd2	6.53	8.97	5.40
Elmo3	7.69	10.12	5.40
Cbr2	10.48	12.91	5.40
Itga3	9.20	11.63	5.40
Capn5	7.88	10.31	5.40
2210411K11Rik	8.34	10.77	5.40
Tcp1111	7.53	9.96	5.39
Idi1	8.46	10.88	5.37
Idi1	8.52	10.94	5.37
Cpne8	7.08	9.51	5.36
Fam83f	6.16	8.58	5.34
Foxn1	6.70	9.12	5.33
Lphn2 LOC10004805			
0	7.78	10.19	5.33
Enpp1	7.11	9.52	5.29
Tmem184a	7.46	9.87	5.29
Pak1	7.47	9.87	5.28
Prdx6	9.00	11.40	5.28
Dera	8.33	10.72	5.27
Ctsh	8.88	11.28	5.27
Pgap2	8.98	11.37	5.26
Klhl38	6.77	9.16	5.26
Il18	6.22	8.61	5.26
9930032O22Rik	5.58	7.97	5.24
Irs1	7.77	10.16	5.24
Gramd3	7.46	9.84	5.23
Efna1	8.21	10.60	5.23
Epn3	7.80	10.19	5.22
Aldoc	7.68	10.07	5.22
Atp9a	6.95	9.33	5.20
Cd9	9.60	11.96	5.13
Arhgef16	7.11	9.47	5.12
Polr3g	6.60	8.96	5.11
Gyk	7.51	9.86	5.08
Nupr1	9.03	11.37	5.07
St14	9.71	12.04	5.06
2310030G06Rik	7.40	9.74	5.05
Suc1g2	7.94	10.28	5.05
Pcdhb17	5.35	7.69	5.05
Galnt14	7.27	9.60	5.04

Plekhg6	7.75	10.08	5.03
Gm3579	9.04	11.36	5.01
Fbxo32	7.42	9.74	5.00
Bnip3	7.57	9.88	4.96
Ube2q2	7.62	9.92	4.94
Fat2	7.01	9.31	4.91
Fgf1	6.68	8.97	4.90
Pcdhb18	5.40	7.69	4.89
Plxdc2	8.41	10.70	4.88
Tbc1d9	7.39	9.68	4.88
Rhou	8.72	11.01	4.88
Paox	8.00	10.28	4.88
Wbscr27	8.39	10.67	4.87
Serpinb1b	5.59	7.87	4.87
Acsl3 Utp14b	7.19	9.48	4.87
Emp2	10.72	13.00	4.85
Nfe2l3	6.92	9.20	4.84
Robo1	7.61	9.88	4.82
Mcam	9.40	11.67	4.82
Lcn8	6.16	8.42	4.80
Cnn3	9.62	11.88	4.80
Ube2q2	7.59	9.85	4.80
Mtap7	6.55	8.81	4.79
Tnk1 Plscr3	7.05	9.30	4.77
Gdpd5	8.79	11.05	4.76
Ttc9	7.48	9.73	4.76
Lipg	6.37	8.62	4.75
Usp6nl	8.67	10.92	4.75
Ankrd56	7.29	9.53	4.75
Mafb	6.67	8.92	4.74
Slc27a1	9.21	11.45	4.73
Pyroxd1 Recql	7.34	9.58	4.73
Rbm47	6.74	8.97	4.69
Sgms1	7.15	9.38	4.69
Prdm1	6.45	8.68	4.69
Pik3ip1	8.27	10.50	4.67
Ints4	8.70	10.92	4.66
Cnn3	10.46	12.67	4.65
Hs3st3b1	7.95	10.16	4.64
Gm9359	6.69	8.90	4.63
Sccpdh LOC1000448			
96	6.88	9.09	4.62
Serpinb6b	11.09	13.30	4.62
Trpv4	8.66	10.87	4.61
Epb4.1l5	7.82	10.03	4.61
Crb3	7.08	9.28	4.60
Nucb2	7.35	9.55	4.59
Sprr2a1 Sprr2a3	10.53	12.73	4.58
Sprr2a1 Sprr2a3	10.53	12.73	4.58
Bcl2l15	5.36	7.55	4.57
Phyhd1	8.96	11.14	4.54
Fam59a	6.70	8.88	4.54
Sh3d19	8.67	10.85	4.54
Foxq1	7.11	9.28	4.50
Enah	8.03	10.20	4.49

Fam136a	6.51	8.67	4.48
Kctd1	7.94	10.10	4.47
Ramp3	6.87	9.02	4.46
Syt17	7.60	9.75	4.45
Suc1g2	7.78	9.93	4.44
Spnb3	7.06	9.21	4.44
Xrcc5	7.41	9.56	4.43
Ssh3	7.26	9.41	4.42
Hint3	7.61	9.75	4.41
Arg1	6.29	8.43	4.41
Nt5c2	8.24	10.38	4.41
Igf1r	7.85	9.99	4.40
Vdr	7.60	9.73	4.39
Ikzf2	7.21	9.34	4.39
B4galnt3	7.07	9.20	4.38
Pfkfb2	8.38	10.50	4.36
Lpar5	7.50	9.63	4.36
Dhx32	8.00	10.12	4.36
Gadd45b	9.71	11.83	4.35
Ctgf	11.04	13.16	4.35
Il28ra	7.11	9.23	4.35
Sh3yl1	7.03	9.14	4.32
Eps8l1	6.50	8.60	4.30
Slc16a13	7.53	9.64	4.30
5730559C18Rik	8.07	10.17	4.29
Slc37a1	7.32	9.43	4.29
Gfpt1	8.20	10.30	4.29
Jag1	8.10	10.20	4.29
1700016C15Rik	5.97	8.06	4.28
Dqx1	7.00	9.09	4.27
Bcl2 D630008O14Rik	8.55	10.65	4.26
Lpcat2	8.73	10.82	4.26
Slc25a1	9.89	11.98	4.26
2010204K13Rik	6.90	8.99	4.25
Arpc5	10.27	12.36	4.25
Srgap3	7.56	9.64	4.25
Hoxc5	6.26	8.35	4.24
Aig1	7.25	9.33	4.24
Gnai1	7.28	9.36	4.24
Tcp11l2	6.53	8.61	4.22
Fam3c	7.48	9.55	4.21
1110002B05Rik	6.89	8.97	4.21
Maml3	6.72	8.79	4.20
Inhba	9.04	11.11	4.20
Stk17b	8.13	10.20	4.20
Rassf6	5.49	7.55	4.19
Herpud1	10.26	12.32	4.18
2010107G23Rik Chit1	7.61	9.67	4.18
Vipr1	7.02	9.08	4.17
Ptplb	8.23	10.29	4.15
Ly6i	6.63	8.68	4.14
Prkaa2	6.58	8.62	4.13
Itgb4	8.93	10.97	4.12

Atp2c2	6.78	8.82	4.11
Antxr1	8.21	10.25	4.11
Bzw2	8.97	11.01	4.11
Ece1	9.12	11.16	4.11
Fjx1	6.58	8.61	4.09
Gnpda2	7.25	9.28	4.07
Ivns1abp	8.80	10.83	4.07
Zfp53	8.30	10.32	4.07
Dhcr7	8.45	10.48	4.06
Lrrc1	7.11	9.12	4.05
Fam199x	7.40	9.41	4.04
Rhov	7.02	9.03	4.04
Hist1h2bc	10.22	12.24	4.03
Slitrk6	5.23	7.24	4.03
Osgin1	8.54	10.56	4.03
Gcom1	7.21	9.22	4.02
Stau2	8.14	10.14	4.02
Zfp467	7.29	9.29	4.02
Shroom4	6.79	8.79	4.01
Lphn2 LOC10004805			
0	7.26	9.26	4.01
Fgfr2	7.01	9.01	4.01
Ccdc68	8.81	10.81	4.00
Mpv17l	7.12	9.12	4.00
Aktip Rbl2	8.68	10.68	3.99
Cebpa	7.25	9.24	3.97
Eya2	7.39	9.37	3.96
Cdk6	8.56	10.55	3.96
Cldnd1	11.29	13.27	3.94
Fchsd2	7.19	9.17	3.93
Ppp2r5c	7.99	9.96	3.91
Lphn2	6.37	8.34	3.91
Wdr47	7.63	9.60	3.91
Gnai3	9.01	10.97	3.90
6330409N04Rik	8.24	10.20	3.89
Plscr1	9.74	11.70	3.88
Itga6	9.18	11.13	3.87
Lpin3	7.11	9.06	3.87
	8.40	10.35	3.86
Fam176a	6.81	8.76	3.86
Srgap3	7.41	9.36	3.86
Skap2	8.44	10.39	3.85
Ube2w	6.37	8.32	3.85
Wnt4	8.93	10.87	3.84
Fam126b	7.73	9.67	3.84
Bnc1	7.60	9.54	3.83
Fam89a	7.81	9.75	3.83
Eif4e3	7.15	9.09	3.83
Thumpd3	8.28	10.22	3.83
Gprc5a	10.61	12.54	3.82
Hopx	7.38	9.32	3.82
Zdhhc13	8.84	10.77	3.82
Mfap3l	7.27	9.21	3.81
Fabp5 Fabp5l2	9.11	11.04	3.81
Slc4a4	8.22	10.15	3.81

Ldlr	9.18	11.10	3.80
Mpp7	6.31	8.23	3.80
Defb1	9.96	11.88	3.78
Wwc1	6.99	8.91	3.78
Susd4	6.47	8.39	3.78
Slc2a5	6.67	8.58	3.78
Slc26a9	6.70	8.62	3.78
Ormdl1	7.70	9.61	3.76
Lyplal1	7.97	9.87	3.74
Sike1	9.06	10.96	3.73
Npas2	6.41	8.30	3.72
Grhl1	7.04	8.93	3.72
Gjb4	7.44	9.34	3.71
Dmkn	6.83	8.72	3.71
Slc22a23	7.94	9.83	3.71
Htatip2	6.81	8.69	3.69
Dcun1d4	7.65	9.53	3.69
Casp6	8.18	10.07	3.69
Defb4	5.31	7.19	3.69
Cldn6	6.89	8.77	3.69
Tspan17	8.32	10.20	3.69
Fabp5 Fabp5l2	9.45	11.33	3.69
Tgfb2	8.64	10.52	3.69
Llg2	8.18	10.06	3.68
Eef1e1	9.04	10.91	3.65
Pkp3	7.52	9.39	3.65
Maml2	7.66	9.52	3.64
Ccdc90b Ankrd42	6.03	7.90	3.64
Pla2g4a	8.00	9.86	3.63
Sel1l3	6.74	8.60	3.63
Fut2	6.90	8.76	3.62
Cpne3	9.53	11.38	3.61
Thnsl1	7.15	9.00	3.60
Cbr4	8.00	9.85	3.60
Pcgf6	8.51	10.36	3.60
Pcyt1b	7.09	8.93	3.60
Trim16 Fbxw10	8.23	10.08	3.60
Arhgap40	7.22	9.07	3.59
Ano9	6.55	8.40	3.59
Serpinb2	9.35	11.20	3.59
Apol7a	5.83	7.67	3.58
Rps6ka2	7.16	8.99	3.58
Rab11fip1	8.41	10.25	3.58
Tnc	9.70	11.54	3.57
Fam83g Slc5a10	6.49	8.32	3.57
	7.72	9.55	3.56
Sc5d	9.40	11.23	3.56
Nbeal2	8.41	10.25	3.56
Atg4a Syt6	8.20	10.03	3.56
Dsp Gm10129	7.99	9.82	3.55
Pard6g	9.14	10.97	3.55
Gtpbp10	7.06	8.89	3.54
Irak2	7.64	9.47	3.54
Oxct1	8.84	10.67	3.53
Cds1	6.41	8.23	3.53

Cmas	8.13	9.95	3.53
Chmp2b	9.21	11.03	3.53
Atg4c	6.86	8.68	3.53
Slc25a17	10.55	12.36	3.53
Rnf19a	8.40	10.21	3.53
Grhl3	8.24	10.05	3.52
Lphn2 LOC10004805			
0	7.07	8.89	3.52
Nipsnap1	8.39	10.21	3.52
Atg9b	8.33	10.15	3.52
Slc39a4	6.84	8.65	3.51
Mobkl2b	5.67	7.48	3.51
Vangl2	7.17	8.98	3.50
Acer3	8.19	10.00	3.50
2310038E17Rik	9.26	11.07	3.50
Gm9908	8.18	9.98	3.50
Pbp2	7.31	9.12	3.50
Gm5662	6.19	8.00	3.50
Cytsb	8.20	10.01	3.50
Prnd	6.53	8.33	3.49
Celsr1	7.47	9.27	3.48
Gtpbp10	7.30	9.09	3.47
Fscn1	10.71	12.51	3.47
Rgs10	8.83	10.62	3.47
Mir205	5.93	7.72	3.47
Tslp	5.81	7.60	3.47
Map4k5	9.19	10.99	3.46
Fytd1	8.33	10.12	3.46
Duox1	6.79	8.58	3.46
Tnfrsf26	6.89	8.68	3.46
Msi2	7.97	9.76	3.46
Ephb3	8.29	10.08	3.45
Frk	8.28	10.07	3.44
	5.19	6.97	3.44
Acadm	8.56	10.34	3.44
Pcyox1	9.79	11.57	3.43
Serpinb8	8.73	10.50	3.43
Rab38	8.10	9.87	3.43
Hddc2	8.38	10.15	3.42
Ephb6	7.92	9.70	3.42
Flrt3	7.18	8.95	3.42
Lss	8.60	10.37	3.41
Znrf2	8.63	10.40	3.41
Wnt4	8.18	9.95	3.41
Echs1	8.28	10.04	3.40
Cpe	9.89	11.65	3.40
Ptpn22	6.01	7.78	3.40
Lrrc16a	7.76	9.51	3.38
Nrp1	9.70	11.46	3.37
Tmem229b Gm5423	8.47	10.22	3.36
Zdhhc23	6.15	7.90	3.36
Pcdhb15	6.78	8.53	3.35
Mllt3	8.13	9.87	3.34
Il15	6.65	8.39	3.33
Sik1	10.24	11.98	3.33

Slc43a2	7.03	8.76	3.32
Tom111 Cox11	7.58	9.31	3.32
Dsc3	10.09	11.82	3.32
Mobkl3	9.12	10.85	3.31
2610001J05Rik	8.27	10.00	3.31
Serf1	7.70	9.42	3.30
Nsun3	9.14	10.86	3.29
Hspa1a Hspa1b	9.63	11.35	3.29
Zc3h12c	8.06	9.78	3.29
Efna4	8.21	9.93	3.29
Zfp827	7.59	9.31	3.28
Bcl10	9.21	10.92	3.28
Hoxa1	7.21	8.92	3.28
Dusp18	7.34	9.05	3.28
Krcc1	7.11	8.82	3.28
Hoxc8	6.82	8.53	3.27
Sh3pxd2b	7.42	9.12	3.26
Cetn2	7.39	9.09	3.26
G6pdx	11.23	12.93	3.25
Usp53	8.23	9.93	3.25
Scd2	11.62	13.32	3.25
Pgap1	7.24	8.94	3.25
Ktelc1	9.65	11.35	3.24
Plscr1	10.44	12.14	3.24
Epha4	8.45	10.15	3.24
Blzf1	8.92	10.62	3.24
Vsig10l	7.76	9.46	3.24
Nrap	8.26	9.95	3.24
Stx19	6.05	7.74	3.23
Chmp4c	7.50	9.19	3.22
Sms	7.24	8.93	3.22
Krtcap3	8.57	10.25	3.22
Gmds	8.61	10.30	3.21
Paqr8	7.18	8.86	3.21
Arfgef1	8.54	10.21	3.20
Sorcs2	7.14	8.82	3.20
Rnf122	7.78	9.46	3.20
Zdhhc9	9.27	10.95	3.19
Fhl2	8.14	9.81	3.19
Gnaq	9.01	10.68	3.19
Grpel2	9.36	11.03	3.19
Nipal4	9.12	10.79	3.18
Dlg3	6.89	8.56	3.18
Pik3c2a	8.15	9.82	3.18
Stx11	8.84	10.51	3.18
Krtap1-5	5.91	7.58	3.18
Ilf9	5.83	7.50	3.18
Amd1 Amd2	9.62	11.29	3.18
Med21	7.99	9.65	3.18
Chd7	6.53	8.20	3.18
Pmepa1	9.73	11.39	3.16
D930014E17Rik	8.57	10.23	3.16
Amn1	7.71	9.37	3.16
Amd1 Amd2	9.62	11.28	3.16
Igfbp7	11.95	13.61	3.16

Dusp7	11.36	13.02	3.16
Fam84a	7.34	8.99	3.15
Rgnf	8.15	9.81	3.15
Atp8a1	6.59	8.24	3.15
Mfsd6	8.76	10.42	3.14
Mia2	5.81	7.46	3.14
Glrx3	7.55	9.20	3.14
Apob48r Cln3	7.60	9.24	3.13
Sertad4	7.08	8.72	3.13
Hes6	8.61	10.25	3.13
Lace1	8.24	9.88	3.12
	6.65	8.29	3.12
F2r1	7.21	8.85	3.12
Tspan14	10.00	11.64	3.12
Tifa	6.42	8.07	3.12
Uck2	7.54	9.18	3.12
Mboat1	9.85	11.49	3.11
Myc	10.59	12.22	3.10
Krt16	6.80	8.43	3.10
Dennd2d 2010016l18			
Rik	7.22	8.85	3.10
Tsg101	9.19	10.82	3.09
C77370	5.55	7.18	3.09
Hddc3	6.98	8.61	3.09
Chac2	7.29	8.92	3.09
Rap2c	7.65	9.27	3.09
Ece2	8.44	10.07	3.09
Lama5	9.15	10.77	3.08
Tprn	7.56	9.18	3.08
Dbp Sphk2	8.79	10.41	3.08
Ldhd	7.20	8.82	3.08
2610018G03Rik	7.91	9.53	3.08
Erlin2	9.33	10.95	3.07
Bhlhe40	9.76	11.38	3.07
1110008L16Rik	8.95	10.56	3.07
Klk10	8.48	10.10	3.07
Amd1 Amd2	9.66	11.28	3.07
Gmcl1	8.22	9.84	3.07
Ppa2	7.56	9.17	3.07
Psd4	6.64	8.26	3.06
Slc17a5	8.87	10.49	3.06
Nit1	9.32	10.93	3.06
B4galt3	8.66	10.27	3.06
Fgy	7.00	8.61	3.06
Fdps	9.94	11.55	3.06
Serpinb11	5.15	6.76	3.05
Arl4c	7.38	8.98	3.05
Sgk3	7.16	8.77	3.04
Areg	7.30	8.91	3.04
8430408G22Rik	6.37	7.98	3.04
Glrx	9.23	10.84	3.04
Hbegf	7.95	9.56	3.04
Tfb2m	8.00	9.60	3.03
Amd1 Amd2	9.62	11.22	3.03
Fam164a	8.41	10.01	3.03

Ank	7.83	9.43	3.03
Slco1a5	5.80	7.39	3.02
Vgll4	9.51	11.11	3.02
Gcsh	5.84	7.44	3.02
Idh1	9.87	11.46	3.02
Il1rn	8.45	10.04	3.01
Mvd	8.56	10.16	3.01
Ptgs2	9.28	10.87	3.01
Atg4a Syt6	7.96	9.55	3.01
Endod1	9.01	10.60	3.01
Akap6	6.00	7.59	3.00
	11.46	13.05	3.00
Tfb2m	8.01	9.60	3.00
3110053B16Rik LOC1			
00046614	6.24	7.82	3.00
Myo1b	8.10	9.68	2.99
Ovol2	7.44	9.02	2.98
Zc3h12c	8.49	10.07	2.98
Malt1	7.38	8.95	2.98
Tmem125	6.81	8.39	2.97
Fam160a1	7.71	9.28	2.97
Tspan7	10.65	12.22	2.97
Rab11fip5	8.83	10.40	2.97
Plcd1	8.66	10.23	2.97
Vangl1	8.49	10.06	2.96
Acadl	9.05	10.61	2.96
Lrrc56 1600016N20Ri			
k	6.97	8.54	2.96
Hs6st1	8.79	10.35	2.95
Nif3l1 Ppil3	9.43	10.99	2.95
Angptl2	9.34	10.90	2.95
Prkcz	7.11	8.66	2.94
Itm2a	6.01	7.56	2.94
Cav2	9.62	11.17	2.93
Clns1a	8.31	9.86	2.93
Nbea	8.35	9.91	2.93
Hspb8	9.54	11.09	2.93
Mycbp	8.44	9.99	2.93
Rpl22l1 LOC1000420			
49	6.29	7.84	2.93
Ccl28	6.08	7.62	2.92
Abcg1	7.89	9.44	2.92
Il7	6.00	7.54	2.92
Bid	9.14	10.69	2.92
	5.26	6.80	2.92
Klf5	8.94	10.48	2.92
Micall2	9.19	10.73	2.91
Slc1a1	6.78	8.32	2.91
Cdc42ep5	9.63	11.17	2.91
Ncs1	7.89	9.43	2.91
Cth	7.32	8.86	2.91
Zfp809	9.63	11.17	2.91
Rgs3	7.79	9.33	2.91
Serpina9	6.14	7.68	2.91
Jup	11.66	13.20	2.91

Mrpl19 AW146020	9.22	10.76	2.90
Sms Gm8234	7.22	8.75	2.90
Arrdc1	9.42	10.96	2.90
Zhx2	7.07	8.61	2.90
Sept5 Gp1bb	9.08	10.61	2.89
Stard10	10.26	11.79	2.89
Sumo1	7.79	9.33	2.89
Zfand1	8.19	9.72	2.89
Ptplb	11.13	12.66	2.88
Rnase1	6.74	8.27	2.88
	6.20	7.72	2.88
Akr1c18	5.81	7.33	2.87
Stfa1	5.34	6.86	2.87
Sprr2a1 Sprr2a2 Sprr			
2a3	12.16	13.68	2.87
Ocm	6.34	7.86	2.87
Taf4b	7.20	8.72	2.87
Usp46	8.51	10.03	2.87
Lgr4	7.63	9.15	2.87
D730005E14Rik	7.17	8.69	2.87
	7.61	9.13	2.87
Insig2	8.87	10.39	2.87
Acadslb	7.49	9.00	2.87
Gstm5 4933431E20Ri			
k	8.32	9.84	2.86
2810408A11Rik	6.69	8.21	2.86
Akr1c13	5.75	7.27	2.86
Arhgef3	7.82	9.33	2.86
Gm16372	7.36	8.88	2.86
Cyp2j9	6.43	7.95	2.86
Rpl22l1 LOC1000420			
49	6.38	7.90	2.85
Rbm34	7.81	9.32	2.85
Nt5c3	6.91	8.42	2.85
Mst1	8.38	9.89	2.85
Gylt1b	7.05	8.56	2.85
Arhgef9	6.43	7.94	2.85
Oma1	7.86	9.37	2.85
Ccdc126	6.81	8.32	2.85
Mrpl36	9.07	10.58	2.85
Atp13a4	6.06	7.56	2.84
Socs2 Gm9847	9.45	10.96	2.84
Tmod3	9.58	11.08	2.84
Sdc1	11.38	12.88	2.84
Nck2	8.17	9.67	2.84
Tpd52	8.91	10.41	2.83
Chmp1b	8.12	9.62	2.83
Cd276	8.64	10.14	2.83
Mid2	9.05	10.55	2.83
Zfand1	8.19	9.69	2.83
Hcn1	6.02	7.52	2.83
Dcaf6	7.75	9.25	2.83
Jkamp	8.63	10.13	2.83
Tgif1	9.63	11.13	2.82
Lrp8	7.77	9.27	2.82

Fam102a	9.22	10.72	2.82
Gm14137	7.29	8.78	2.82
Kif26b	6.37	7.86	2.82
Ralgds	7.67	9.17	2.82
Hmgcr	9.21	10.70	2.81
Chd7	6.25	7.74	2.81
Pip5k1b	6.14	7.63	2.81
Bpnt1	9.00	10.49	2.81
Mrgpre	7.60	9.09	2.81
Dnajc15	7.42	8.91	2.80
Jarid2	7.96	9.45	2.80
D730001G18Rik	7.81	9.29	2.80
5730508B09Rik	7.89	9.37	2.80
Ccdc91	7.83	9.31	2.80
Cfdp1	10.22	11.70	2.80
Dll1	6.61	8.09	2.79
Sumo1	8.43	9.91	2.79
Mreg	7.81	9.28	2.79
Pard6b	8.26	9.74	2.79
Gsta3	10.61	12.09	2.79
Loxl4	8.64	10.12	2.79
Fut9	5.82	7.29	2.79
Pts	7.11	8.58	2.78
Slc7a6	9.71	11.18	2.78
Gimap9	6.69	8.17	2.78
Amd1 2700099C18Ri			
k	9.56	11.04	2.78
Lipt1	6.40	7.88	2.78
Hiat1	9.64	11.11	2.78
Icam1	8.00	9.47	2.78
Ltv1	8.22	9.69	2.78
Tpk1	6.80	8.27	2.77
Pdp2	6.86	8.33	2.77
1700055N04Rik	6.08	7.56	2.77
Psm10	9.26	10.73	2.77
Sdc3	7.67	9.14	2.77
Kctd21	6.94	8.41	2.77
Cyp2j6	7.49	8.96	2.77
Acly	9.22	10.68	2.76
Nudt2	7.78	9.24	2.76
Sgtb	7.09	8.55	2.76
Mycl1	7.38	8.84	2.76
Abcb10	7.81	9.27	2.76
Hebp2	7.20	8.67	2.76
Dram2	9.68	11.14	2.76
Ap1s3	8.49	9.96	2.76
Sema4a	7.62	9.08	2.75
Gpr126	7.60	9.06	2.75
Tmigd1	6.58	8.04	2.75
Krt8	6.58	8.04	2.75
Krt8	8.23	9.69	2.75
1810014F10Rik	6.77	8.22	2.75
Tex15	6.44	7.89	2.75
Lym5 Kras	6.43	7.89	2.75
Myh14	7.90	9.36	2.74

Plekha5	6.95	8.41	2.74
Fdft1	10.68	12.14	2.74
Morc4	7.70	9.15	2.73
Eil2	8.62	10.07	2.73
Mitf	6.69	8.13	2.73
Bcl7a	8.51	9.96	2.72
Acn9	7.80	9.24	2.72
Car5b	10.15	11.59	2.72
Grasp	8.91	10.35	2.72
Tmem168	8.44	9.88	2.72
Dusp10	8.39	9.83	2.72
N6amt1	7.96	9.40	2.72
Polr1d	9.35	10.79	2.72
Sox15 Sox16	7.19	8.63	2.71
Eif4e	8.60	10.04	2.71
Pank1	7.29	8.72	2.71
2410127L17Rik	7.26	8.70	2.71
Polr3e	7.63	9.06	2.71
Auts2	6.61	8.05	2.70
Zfp185	7.40	8.83	2.70
Ostc	9.69	11.12	2.70
Unc13b	6.75	8.18	2.70
Tuba4a	10.61	12.04	2.70
Igfbp2	7.32	8.75	2.70
Abhd11	9.20	10.63	2.69
Nars2	7.42	8.85	2.69
Pno1	9.18	10.61	2.69
Chd7	5.85	7.28	2.69
Pthlh	7.44	8.87	2.69
Sh3bp2	8.16	9.59	2.69
Pmaip1	8.70	10.13	2.69
C330018D20Rik	7.82	9.25	2.69
Rdh11	8.85	10.27	2.69
0610037P05Rik	9.45	10.88	2.69
Smox	9.62	11.05	2.69
Mecom	6.63	8.05	2.69
Chd7	5.93	7.36	2.69
Cnfn	7.44	8.87	2.69
Gm12669 Glr3	8.30	9.72	2.68
Cdk18	10.23	11.66	2.68
2410127L17Rik	7.28	8.70	2.68
Rapgef1	6.34	7.76	2.68
Btbd1	8.17	9.59	2.68
Dapk2	6.91	8.33	2.68
Fam32a	9.50	10.93	2.68
Alcam	8.83	10.25	2.68
Tulp3	9.15	10.58	2.68
Ube2g1	9.17	10.59	2.67
Yipf5	9.83	11.24	2.67
Ceacam1	6.72	8.14	2.67
Ctnnd1	10.13	11.55	2.67
Shkbp1	8.24	9.65	2.67
Mmp15	9.87	11.29	2.67
1110001A16Rik Cebp			
z	8.64	10.05	2.66

Ralgps2	6.99	8.41	2.66
Ppp2r5c	6.38	7.80	2.66
Rab11a	9.57	10.98	2.66
5730601F06Rik	9.12	10.53	2.66
G6pd2	8.89	10.30	2.66
Cops3	9.23	10.64	2.65
Gbe1	8.32	9.73	2.65
Yipf5	9.44	10.85	2.65
Trp53inp2	9.39	10.79	2.65
3110040N11Rik	8.34	9.75	2.65
	6.70	8.11	2.65
Il23r	5.67	7.08	2.65
5730403M16Rik	7.54	8.95	2.65
Isoc1	9.69	11.10	2.65
Herc4	7.86	9.26	2.64
Zfp810	7.32	8.72	2.64
0610009B22Rik	9.58	10.98	2.64
Hivep1	8.56	9.96	2.64
Hmgb3	6.74	8.14	2.64
Cpa4	5.99	7.39	2.64
Mblac2	6.93	8.33	2.64
2310008H09Rik	7.45	8.84	2.63
Tnfrsf23	10.99	12.38	2.63
Kpna1	9.28	10.68	2.63
Rasa3	9.98	11.37	2.63
Fam49b	8.89	10.29	2.63
Zfp277	7.87	9.26	2.63
Rabif	8.93	10.32	2.63
Phactr2	8.17	9.56	2.63
Usp3	8.54	9.93	2.63
Hibadh	10.07	11.47	2.63
Pdgfa	10.14	11.53	2.62
Snord116	5.97	7.36	2.62
Pcmd1	8.50	9.89	2.62
Dtd1	8.48	9.87	2.62
Hes1	8.27	9.66	2.62
Tubb2b	7.99	9.38	2.62
Eapp	8.20	9.59	2.62
Tc2n	5.23	6.61	2.61
Taf5l	7.82	9.20	2.61
Tmprss4	7.00	8.38	2.61
Tmtc2	6.00	7.39	2.61
Uck2	10.98	12.36	2.61
Ptpre	6.78	8.17	2.61
Mpp7	8.34	9.72	2.61
Foxc1	7.22	8.60	2.60
Mipol1 Gm5081	7.19	8.57	2.60
Snx15	9.09	10.47	2.60
Gm5478	6.56	7.93	2.60
Snord116	6.03	7.40	2.59
9030420J04Rik	9.38	10.75	2.59
Cpeb2	8.25	9.62	2.58
Mkln1	8.71	10.08	2.58
Snord116	5.98	7.35	2.58
Arrdc4	7.48	8.85	2.58

	7.03	8.40	2.58
Chd7	5.75	7.11	2.58
Uba3	9.29	10.66	2.58
Cct3	9.69	11.06	2.57
Nuak2	8.51	9.87	2.57
Lmo7	7.73	9.09	2.57
Pja1	8.70	10.06	2.57
Snord116	6.00	7.36	2.57
Sema3c	10.14	11.50	2.56
Ublcp1	7.24	8.60	2.56
H2afy2	6.51	7.87	2.56
Rtkn	8.91	10.27	2.56
Tpm2	7.55	8.91	2.56
Zfp317	7.87	9.23	2.56
Usp10	9.27	10.63	2.56
Snord116	6.01	7.36	2.56
Snord116	6.01	7.37	2.56
Entpd3	6.94	8.29	2.55
Snord116	6.01	7.36	2.55
Cldn23	6.30	7.65	2.55
Snord116	6.01	7.36	2.55
Snord116	6.02	7.37	2.55
Snord116	6.01	7.36	2.55
Snord116	6.02	7.37	2.55
Dusp11	9.15	10.50	2.55
Tlr3	8.72	10.07	2.55
Snord116	6.01	7.36	2.55
Psm14	10.25	11.60	2.55
Snord116	6.01	7.36	2.55
Snord116	6.02	7.37	2.55
Snord116	6.01	7.36	2.55
Snord116	6.01	7.36	2.54
Fgfr1op2	8.64	9.98	2.54
Snord116	6.02	7.37	2.54
Snord116	6.01	7.36	2.54
2410127L17Rik	7.85	9.19	2.54
Fam20b	9.44	10.79	2.54
Snord116	6.02	7.37	2.54
Kremen1	9.52	10.87	2.54
Wdr36	8.99	10.33	2.54
Snord116	6.02	7.36	2.54
Snord116	6.02	7.36	2.54
Birc3	8.19	9.53	2.54
1110002L01Rik Kif3c	7.97	9.31	2.54
Gls	8.16	9.50	2.54
Serinc5	8.92	10.26	2.53
Golim4	8.23	9.57	2.53
Gnpat	9.35	10.69	2.53
Akirin1	8.65	9.99	2.53
Fundc1	9.92	11.25	2.53
Camk2b	8.14	9.48	2.53
D1Ert448e	8.34	9.68	2.53
Pdpf	9.92	11.25	2.52
Pvrl4	8.07	9.40	2.52

Tkt	8.23	9.57	2.52
2410127L17Rik	7.88	9.22	2.52
Dnajb6	10.65	11.98	2.52
Slc24a3	6.20	7.54	2.52
Ppp2r1b	8.47	9.80	2.52
Tmem183a	9.27	10.60	2.51
Csf3	7.06	8.38	2.51
Mrps33	9.39	10.72	2.51
Lfng	8.16	9.48	2.51
Ftsjd1	7.84	9.16	2.51
E330009J07Rik	6.18	7.50	2.51
Plekha7	7.65	8.97	2.51
Amd1	7.77	9.09	2.51
Fgd3	7.33	8.65	2.51
Fam103a1 Gm10767	8.21	9.54	2.51
Btbd1	7.97	9.30	2.51
Rnf2	8.82	10.15	2.51
Krt19	12.06	13.39	2.51
Tiprl	8.33	9.65	2.50
Aasdhppt	9.02	10.35	2.50
Rpp38	9.84	11.16	2.50
Atrnl1	7.73	9.06	2.50
Lphn3	5.94	7.26	2.50
Cd99l2	10.15	11.47	2.50
Mfsd9	7.10	8.42	2.50
Ntan1 Pdxdc1	8.89	10.21	2.50
Dnajb6	10.64	11.96	2.49
Acss2	8.29	9.61	2.49
Ddx19b	7.13	8.45	2.49
Efna3	9.39	10.71	2.49
Otub2	8.50	9.81	2.49
Amd1	7.69	9.01	2.49
Sft2d2	10.27	11.58	2.49
Ppp2r5c	8.42	9.74	2.49
Tmem70	8.16	9.47	2.49
Pde7a	9.01	10.32	2.49
Ndufs1	8.25	9.56	2.49
Tspan12	7.97	9.29	2.48
Aldh3b2	7.65	8.96	2.48
Trove2	8.31	9.62	2.48
Phlpp1	7.29	8.61	2.48
Mst1r	7.15	8.46	2.48
Zfp60	4.98	6.28	2.48
Tbca	9.16	10.46	2.47
Cdkn2b	9.43	10.73	2.47
D8Ert82e	7.65	8.95	2.47
Dact2	7.69	9.00	2.47
Htra1	10.48	11.79	2.47
Mpzl1	9.45	10.75	2.47
Nod2	6.86	8.16	2.47
Arg2 Vti1b	6.77	8.08	2.47
Nrp2	8.93	10.24	2.47
Tia1	7.79	9.10	2.47
Gatsl2	8.36	9.67	2.47

Cxadr	8.18	9.48	2.47
Metap1	9.62	10.92	2.47
Mars2	8.36	9.66	2.47
Daam1	7.99	9.29	2.46
Fam103a1 Gm10767	8.61	9.91	2.46
Zfp772 2810047C21R			
ik1	7.88	9.18	2.46
Rab6b	8.12	9.42	2.46
Prss52	6.35	7.65	2.46
Ppp2r3c	7.70	9.00	2.46
Mbp	7.05	8.35	2.46
Uevld	7.48	8.77	2.46
Nfib	10.07	11.36	2.45
Glt28d2	7.02	8.32	2.45
Krt80	8.16	9.45	2.45
Arpc3	9.93	11.22	2.45
Susd1	7.33	8.63	2.45
Vmn2r29	6.79	8.08	2.45
9630033F20Rik	8.36	9.65	2.45
Apool	6.80	8.10	2.45
Fbxl5	8.41	9.70	2.45
Chchd4	8.13	9.42	2.44
Lemd1	6.17	7.46	2.44
Btbd11	7.06	8.34	2.44
Chd7	6.23	7.51	2.44
Slc40a1	6.06	7.34	2.44
Pvrl2	9.20	10.48	2.44
Trim68	7.13	8.41	2.44
Cmpk1	9.36	10.65	2.44
Fh1	9.49	10.78	2.44
Vmn2r50 2810047C2			
1Rik1	7.88	9.16	2.43
Dnajb6	10.79	12.07	2.43
Dtd1	7.48	8.76	2.43
Nr2c1	8.49	9.77	2.43
Ppfibp2	7.62	8.90	2.43
Pigh Plekhh1	7.45	8.73	2.43
Npsr1	6.10	7.38	2.43
Casz1	7.23	8.51	2.43
Rfk	10.23	11.51	2.43
Trnt1 Crbn	7.30	8.58	2.43
Socs6	7.93	9.21	2.43
Pik3c2b	7.38	8.66	2.43
Ankrd49	8.53	9.81	2.42
Cnnm4	7.37	8.65	2.42
Cotl1	8.16	9.44	2.42
Samd10	8.06	9.33	2.42
Loxl4	8.84	10.11	2.42
Mthfd2l	8.49	9.76	2.42
Chd7	6.48	7.75	2.42
Bloc1s3	9.02	10.29	2.42
Usp14 Thoc1	9.40	10.68	2.42
AK129341	6.06	7.33	2.42
Ube2v2	8.78	10.05	2.42

Nup210l	6.68	7.96	2.41
Afap1l1	7.72	8.99	2.41
Fbxo33	8.05	9.32	2.41
Zfand5	8.58	9.85	2.41
Atoh1	6.71	7.98	2.41
Tpm1	10.69	11.96	2.41
Ddx21	9.07	10.33	2.41
Gm2382 Mthfs LOC10			
0044361	6.85	8.12	2.41
Efnb1	8.94	10.21	2.41
Homer1	6.90	8.17	2.41
Mrpl50	8.21	9.48	2.41
Mrps33	9.04	10.31	2.41
Rasal2	7.33	8.60	2.41
Bcap29	7.97	9.24	2.40
Polb	8.16	9.42	2.40
9030409G11Rik	7.28	8.54	2.40
C230030N03Rik	7.27	8.54	2.40
Ppp1cb	10.80	12.06	2.40
Zfand6	7.96	9.23	2.40
Impa2	8.09	9.36	2.40
Rnf138	6.87	8.13	2.40
Stambpl1	8.48	9.74	2.40
Brwd3	7.28	8.54	2.40
Mki67ip	9.43	10.69	2.40
Scnn1a	7.45	8.71	2.40
Gm6624	7.02	8.28	2.40
Adrb3	7.09	8.35	2.39
Mkx	8.01	9.26	2.39
Trappc2	9.09	10.35	2.39
Olfr1372-ps1	6.12	7.38	2.39
Braf	8.57	9.83	2.39
1810013D10Rik	9.83	11.08	2.38
Yipf6	8.29	9.54	2.38
Mbnl3	9.30	10.55	2.38
Cops5	8.12	9.38	2.38
Csta	5.15	6.40	2.38
Hlf	6.66	7.91	2.38
Pcdh18	7.65	8.90	2.38
Gan	7.96	9.21	2.38
Strap	9.68	10.93	2.38
Hk2	7.47	8.72	2.38
Zfp418	7.10	8.35	2.38
Stx6	9.52	10.77	2.38
Sesn3	7.92	9.17	2.37
Ap1ar	10.09	11.33	2.37
Phospho2	7.78	9.03	2.37
Ap4b1	8.18	9.42	2.37
Atp13a3	7.11	8.35	2.36
A130010J15Rik Traf3i			
p3	6.99	8.23	2.36
Sar1b	10.38	11.62	2.36
Rab30	6.35	7.59	2.36
Suc1g1	8.48	9.72	2.36
Erb2	8.68	9.92	2.36

Syt15	6.14	7.38	2.36
Gm8300 Gm2022 Eif1			
a Gm16368	9.76	11.00	2.36
Emp1	11.81	13.04	2.36
Ppdf	10.37	11.61	2.36
Jub	8.77	10.01	2.36
Dapp1	8.94	10.18	2.36
Pppde1	8.69	9.93	2.35
Gm6623 Akirin1	9.22	10.46	2.35
Sdhc	10.40	11.63	2.35
Bpgm	6.80	8.03	2.35
Pcdcd10	7.09	8.33	2.35
Pitpnc1	7.94	9.17	2.35
Cd36	7.80	9.03	2.35
Ndel1	9.14	10.37	2.35
Oxsm	8.06	9.29	2.35
Spg20	8.20	9.43	2.35
Rpia	8.11	9.34	2.34
D630029K05Rik	5.79	7.02	2.34
Pcdhb14	5.29	6.52	2.34
Acvr1b	8.16	9.38	2.34
Fgy	7.87	9.09	2.34
Csde1	10.28	11.50	2.34
Dnajb4	8.85	10.08	2.34
Ept1	10.17	11.39	2.34
Pik3cb	9.13	10.36	2.34
Sftpd	6.44	7.67	2.34
AW209491	7.53	8.75	2.34
Klh7	7.80	9.02	2.34
B4galnt1 Slc26a10	10.00	11.23	2.34
Magi1	7.28	8.50	2.34
Trappc6a	9.35	10.57	2.34
Rab31	10.91	12.13	2.33
Rapgef3	8.12	9.35	2.33
Urb2	9.16	10.39	2.33
Pcdcd6	8.76	9.99	2.33
Ptcd2	7.44	8.66	2.33
Trappc2	9.25	10.47	2.33
Ivl	10.81	12.03	2.33
Uqcrc2 Pdzd9	10.88	12.10	2.33
Vamp7	9.77	10.99	2.33
Vps24	7.33	8.55	2.33
Ahr	8.88	10.10	2.33
Mmrn2	6.34	7.56	2.33
Dusp16	8.88	10.10	2.33
Mobkl2b	7.05	8.27	2.33
Cept1 Dennd2d Dram			
2	8.69	9.91	2.32
Tmem135	7.70	8.92	2.32
Rgs12	8.76	9.98	2.32
Celsr2	7.00	8.21	2.32
Bet1	7.44	8.66	2.32
Wasl	9.26	10.48	2.32

Gm8300 Gm2022 Gm			
4027 BB287469 Eif1a			
Gm16368	9.77	10.98	2.32
Ube2v2 LOC635992	9.55	10.76	2.31
Eif2s2 Gm9892	9.04	10.25	2.31
Rnf11	8.41	9.62	2.31
Tsg101	8.98	10.19	2.31
Rpl7 Gm5045	10.55	11.76	2.31
5430407P10Rik	8.44	9.65	2.31
Mmachc	9.48	10.69	2.31
Lym1	6.41	7.62	2.31
Lyp1a1	9.91	11.12	2.31
Phldb3	7.24	8.44	2.31
Avpi1	11.13	12.34	2.31
Acot9	9.81	11.01	2.31
Atp6v1a	11.18	12.38	2.31
Cmc1	8.50	9.71	2.31
Gspt1	10.87	12.08	2.31
Ube2v2 LOC635992	9.40	10.60	2.31
Rassf7	8.94	10.15	2.31
3110082D06Rik	6.98	8.19	2.31
Tmem147	9.74	10.94	2.31
Txndc9	10.24	11.45	2.31
Pdgfb	7.76	8.96	2.30
Psm1	10.79	12.00	2.30
Rab18	8.67	9.87	2.30
Wwox	8.19	9.40	2.30
Rap1a Gm9392	8.93	10.13	2.30
Csf2	6.73	7.93	2.30
Tspan13	7.00	8.20	2.30
Arhgef5	9.41	10.61	2.30
L1cam	7.11	8.31	2.30
Pdha1 Map3k15	9.68	10.88	2.30
Ets2	11.22	12.42	2.30
Mbtps2 Yy2	9.36	10.56	2.30
Kctd11	7.35	8.55	2.30
C80913	8.87	10.07	2.29
Limk2	9.61	10.80	2.29
Fam40a	9.12	10.32	2.29
Cluap1	7.98	9.18	2.29
Memo1	8.08	9.28	2.29
Skint4	4.99	6.18	2.29
Plxnb1	8.34	9.54	2.29
Col18a1	8.14	9.34	2.29
Arhgap27	8.03	9.23	2.29
Fcamr	6.55	7.75	2.29
Gm16407	10.20	11.39	2.29
Isg20	10.62	11.81	2.29
Rasgef1b	5.84	7.04	2.29
Atxn10	11.17	12.36	2.29
Phlda1	8.89	10.09	2.29
Mrps35	7.69	8.89	2.29
Asb7	6.90	8.09	2.29
Uhm1	9.80	10.99	2.29
Utp18	7.16	8.35	2.28

Pigp	9.42	10.61	2.28
Lym7	7.02	8.21	2.28
Nck2	7.99	9.18	2.28
Fdft1 Ctsb	10.91	12.10	2.28
Prepl Slc3a1	8.43	9.62	2.28
D17H6S56E-5	11.65	12.84	2.28
Gm8300 Gm16368	9.37	10.56	2.28
Eif2s3x	11.60	12.79	2.27
Chd7	5.65	6.83	2.27
Ralb	9.52	10.71	2.27
Slc6a6	9.48	10.66	2.27
Arhgef5	9.64	10.82	2.27
Mphosph10	7.13	8.31	2.27
Chd7	6.92	8.10	2.27
Slc35a3	8.25	9.44	2.27
Zfp322a	6.96	8.14	2.27
Vps4b	8.49	9.67	2.27
1600012F09Rik	9.59	10.77	2.27
Rpl7 Gm5045	10.71	11.89	2.27
Slc7a8	6.16	7.34	2.27
Ii1r1	7.34	8.52	2.27
Fam101b	9.47	10.65	2.27
Cox7b	10.15	11.33	2.27
Leprel1	7.66	8.83	2.26
Glod4	7.88	9.06	2.26
Farsb Sgpp2	9.31	10.49	2.26
Spty2d1	7.51	8.68	2.26
1190005F20Rik	8.35	9.53	2.26
Tnfsf9	8.41	9.59	2.26
Zfp518	7.37	8.55	2.26
Tdg Gm5806	9.21	10.38	2.26
Zswim6	8.73	9.90	2.26
Ube2f	7.70	8.88	2.26
Det1	7.86	9.04	2.26
Gna15	9.40	10.58	2.26
Mex3a	6.76	7.94	2.26
Cyb5r4	8.79	9.97	2.26
Denr	8.06	9.24	2.26
Fggy	6.61	7.79	2.26
Cog5 Hbp1	7.87	9.05	2.26
Cadm4	7.43	8.61	2.26
Gatsl2	6.84	8.02	2.26
Hibch	6.51	7.68	2.25
Pdlim2	8.57	9.74	2.25
Bace2	9.44	10.62	2.25
Wdr75	8.41	9.58	2.25
Mgst1	9.28	10.45	2.25
Cyb5b	11.05	12.23	2.25
Ltbp1	8.71	9.88	2.25
Iars2	8.68	9.85	2.25
Srebf2	10.01	11.17	2.25
Rpl5	10.92	12.09	2.25
Sema4f	6.56	7.73	2.25
Anxa4	10.54	11.71	2.25
Sqrdl	9.42	10.59	2.25

Ier3	7.99	9.16	2.25
Zfp710	8.22	9.39	2.25
Kifap3	8.06	9.23	2.25
Pi4k2b	7.85	9.02	2.24
Parn	8.38	9.54	2.24
Fam84b	6.24	7.41	2.24
Lyn	8.62	9.78	2.24
Cdkl3	6.99	8.15	2.24
Sprr2k	6.19	7.35	2.24
Rpl5	10.83	11.99	2.24
Psma3	10.18	11.35	2.24
Pex13	8.01	9.17	2.24
Cdh18	8.24	9.40	2.24
Chd7	5.75	6.91	2.24
Rbm45	8.90	10.06	2.24
Nudt7	8.25	9.42	2.24
Rfwd2	8.55	9.71	2.24
Arhgap5	8.43	9.59	2.23
Mcts2	8.03	9.19	2.23
Rpl7 Gm5045	10.43	11.59	2.23
Eif2b5	9.40	10.56	2.23
D330012F22Rik	8.30	9.46	2.23
Cul2	8.93	10.09	2.23
1600012F09Rik	9.02	10.18	2.23
Slc35f5	9.98	11.14	2.23
Nfib	8.08	9.24	2.23
Psma3	10.04	11.20	2.23
2810008M24Rik	8.10	9.26	2.23
1600012H06Rik	8.45	9.61	2.23
Bhlhe41	8.21	9.36	2.23
Arhgap32	8.68	9.84	2.23
Lsm6	8.20	9.36	2.23
1600012F09Rik	9.03	10.18	2.23
Dnajb6	11.23	12.38	2.23
Hmgb3	7.01	8.16	2.23
Cldn12	8.86	10.02	2.23
Stra6	8.21	9.36	2.22
Ndst1	9.54	10.69	2.22
Tnfaip8	7.97	9.13	2.22
Lsg1	9.40	10.56	2.22
Pcdhb22	6.55	7.71	2.22
Arl6ip1	10.02	11.18	2.22
Rsl24d1	9.43	10.59	2.22
Clmn	5.92	7.07	2.22
Pafah1b2	10.07	11.22	2.22
Atp5f1	9.87	11.02	2.22
Fam174a	7.50	8.65	2.22
Eif1ax	9.14	10.29	2.22
Muted	7.35	8.50	2.22
Psma5 Gm8394	8.72	9.87	2.22
Ctage5	8.85	10.00	2.22
Rilpl2	8.15	9.29	2.21
Nit2	8.90	10.04	2.21
Ptplad1	8.98	10.13	2.21
Lrba	8.09	9.23	2.21

Uchl3	8.51	9.66	2.21
0610009D07Rik	8.23	9.38	2.21
Rsl24d1	9.38	10.52	2.21
Rpl7 Gm5045	10.81	11.96	2.21
Tmcc3	6.78	7.92	2.21
Sec22a	7.76	8.91	2.21
Cdkn1b	6.92	8.07	2.21
Snx10	7.57	8.72	2.21
Mid1ip1	9.51	10.65	2.21
	7.01	8.15	2.21
Bcl9	8.78	9.92	2.21
Usp47	8.76	9.91	2.21
Hbp1 Cog5	9.83	10.97	2.21
Vamp4	7.68	8.82	2.20
Sh3bp4	8.57	9.71	2.20
Fgd6	7.37	8.51	2.20
Eif1a	8.56	9.70	2.20
Map3k9	6.92	8.06	2.20
Scamp1	9.13	10.27	2.20
Atp6v1e1	9.99	11.13	2.20
Mark2	9.34	10.48	2.20
Rraga	8.90	10.04	2.20
Pcdhb19	5.13	6.27	2.20
	5.67	6.81	2.20
Hspb1	12.55	13.69	2.20
D19Bwg1357e	8.89	10.03	2.20
Trmt2b	9.00	10.14	2.20
Glt1d1	6.26	7.39	2.20
Acsl5	9.62	10.76	2.20
Myo1e	9.04	10.18	2.20
Arhgap19	7.89	9.02	2.20
Fkbp4	9.31	10.44	2.20
Id2	10.35	11.49	2.20
Chd7	5.31	6.44	2.20
Nipa1 A230056P14Ri			
k	7.36	8.50	2.20
Chchd3	9.89	11.02	2.20
Hsf2bp	7.31	8.45	2.20
Jph1	6.54	7.67	2.20
2200002D01Rik Yif1b	8.21	9.35	2.19
Fam98a	8.90	10.04	2.19
Phospho1 Abi3	8.17	9.31	2.19
Snord116	6.12	7.26	2.19
Atg4b	8.79	9.92	2.19
Pdcl3	9.55	10.68	2.19
Zfp68	9.02	10.15	2.19
Lsm6 Gm10043	8.87	10.00	2.19
Eif3e	8.85	9.98	2.19
Golga7	9.56	10.69	2.19
B3gnt3	10.12	11.25	2.19
Yars2	8.67	9.80	2.19
Tmem170	9.09	10.22	2.19
Pdcd5	10.65	11.77	2.19
	8.38	9.50	2.18

Rgs19|LOC10004794

4	9.30	10.43	2.18
Sp3s3	9.68	10.81	2.18
Jtb	8.67	9.79	2.18
Zfp260	7.90	9.02	2.18
Pfdn1	8.72	9.85	2.18
Lsm6 Gm10043	7.94	9.07	2.18
Wdr26	9.74	10.87	2.18
Bcl2l13	9.59	10.72	2.18
Zfp772	6.97	8.10	2.18
Stk38l	8.38	9.50	2.18
Ydjc Ccdc116	7.13	8.25	2.18
Tmem50b	11.40	12.52	2.18
Psm3	10.08	11.20	2.18
Mmg2	9.11	10.23	2.18
Tmem132a	8.32	9.44	2.18
Pddc1	9.81	10.93	2.18
Mccc2	7.64	8.76	2.17
Txndc17	11.52	12.64	2.17
Sh3kbp1	8.40	9.52	2.17
Tsnax	8.04	9.15	2.17
2010012O05Rik	6.95	8.07	2.17
Immt	9.98	11.09	2.17
Cep78	7.69	8.80	2.17
Ptcd3	8.00	9.11	2.17
Klhl9	6.51	7.63	2.17
Ivd	8.99	10.11	2.17
Chid1	9.61	10.73	2.16
Pycr1	10.01	11.12	2.16
Kctd14	6.42	7.53	2.16
Pnkd	8.42	9.54	2.16
Ipp Tmem69	6.94	8.06	2.16
Peli1	9.08	10.19	2.16
Lig3 Rffl	7.78	8.90	2.16
Rpl5	10.97	12.08	2.16
Pfkfb3	7.51	8.62	2.16
Cab39	9.79	10.90	2.16
Noxo1	7.50	8.60	2.16
Padi1	6.96	8.06	2.16
Hspb1	12.66	13.77	2.16
Gpt2	8.39	9.50	2.16
9130011J15Rik	10.13	11.24	2.15
Mthfs Gm2382	7.17	8.27	2.15
Hspa4	10.56	11.66	2.15
Plk3	9.95	11.05	2.15
Senp8	6.48	7.58	2.15
Mphosph6	8.16	9.26	2.15
Rwdd4a	9.30	10.40	2.15
Arntl2 LOC634943	8.49	9.60	2.15
Rsl1d1	10.11	11.21	2.15
Bmp2	5.59	6.69	2.15
Hsd1l	8.33	9.43	2.15
Gtf2e2	7.96	9.06	2.14
Plch1	5.94	7.04	2.14
Capza1	11.07	12.17	2.14

Pnpla2	9.19	10.29	2.14
Tmem43	12.07	13.16	2.14
Strbp	7.93	9.03	2.14
Mir200b	5.56	6.66	2.14
2610002M06Rik	8.30	9.40	2.14
Cdc14b	8.10	9.19	2.14
Eef1b2	11.79	12.88	2.14
Unc13d	7.16	8.25	2.14
Pard3	8.88	9.98	2.14
Pcdhb2	5.84	6.93	2.14
Vta1	9.63	10.72	2.14
Cpt2	9.56	10.66	2.14
Myo10	8.89	9.98	2.14
Rnpep	9.88	10.98	2.13
Pon2	8.37	9.46	2.13
Dctn6	10.40	11.50	2.13
Fam123b	7.92	9.02	2.13
Jph1	7.19	8.29	2.13
Smyd2	9.29	10.38	2.13
Sub1	9.97	11.06	2.13
Trpv3	6.70	7.79	2.13
4931406C07Rik	8.75	9.84	2.13
Atg10	8.43	9.52	2.13
Rad9b	7.53	8.62	2.13
Shq1	8.18	9.27	2.13
Tprgl	10.20	11.29	2.13
Myo1d	9.85	10.94	2.13
Hscb	7.41	8.50	2.13
Cdkn2aipnl	11.18	12.27	2.13
Fam114a2	8.24	9.33	2.13
Lrrc32	6.72	7.81	2.13
Zfp637	8.63	9.71	2.13
Stox2	6.82	7.91	2.13
Hist1h1c	10.08	11.17	2.13
Copb1	9.82	10.91	2.12
Dars	9.09	10.17	2.12
Slc2a1	11.66	12.74	2.12
8430410K20Rik	8.89	9.97	2.12
C1galt1	9.18	10.27	2.12
Gramd1c	6.63	7.72	2.12
3110043O21Rik	6.79	7.88	2.12
Crot	9.36	10.45	2.12
Mtpn	10.65	11.74	2.12
Ddx47	9.10	10.18	2.12
Tmem63a	10.73	11.82	2.12
Nae1	9.78	10.87	2.12
Tcf20	10.01	11.09	2.12
9-Mar	7.99	9.07	2.12
Eppk1	7.51	8.59	2.12
Cyb561	8.00	9.08	2.12
2610028A01Rik	8.14	9.22	2.12
Atxn3	8.05	9.13	2.12
Ublcp1	8.03	9.12	2.12
Gnl3l	9.18	10.26	2.12
Eef2k	7.83	8.91	2.12

Uchl5	8.29	9.37	2.11
H3f3a	10.48	11.56	2.11
Zfp750	9.82	10.89	2.11
Mrpl32	8.21	9.29	2.11
Psm6	9.57	10.65	2.11
Rab4a	8.17	9.24	2.11
Nsun2	8.52	9.60	2.11
Chmp1a	11.00	12.07	2.11
Gtf2f2	8.18	9.26	2.11
Tmem167b	9.62	10.69	2.11
Tdg Gm5806	9.17	10.24	2.11
2810004N23Rik Gnpa			
t	7.91	8.98	2.11
Slc39a10	8.12	9.19	2.11
S100a3	8.48	9.56	2.10
Asl	8.69	9.77	2.10
Adi1	10.21	11.29	2.10
2810047C21Rik1	7.39	8.46	2.10
Trim33	9.15	10.23	2.10
Olf1314	5.28	6.35	2.10
Zc3h12a	8.32	9.39	2.10
Evpl	7.72	8.79	2.10
Ttpa	6.33	7.41	2.10
Mex3b	8.05	9.12	2.10
Uap1	8.97	10.04	2.10
Commd6	9.51	10.58	2.10
Mtap	9.36	10.43	2.10
Ccnj	6.90	7.96	2.10
Cebpg	8.84	9.91	2.10
Cct5	10.02	11.09	2.09
Ddx19a	9.46	10.52	2.09
Hspe1 Hspe1-rs1	10.78	11.85	2.09
Nme7	7.59	8.65	2.09
Mrpl9	8.76	9.83	2.09
Ophn1	5.90	6.97	2.09
Ppargc1a	5.55	6.61	2.09
Rasa4	7.96	9.02	2.09
Moxd1	6.32	7.38	2.09
Tmem97	8.74	9.81	2.09
Rab3d	9.45	10.52	2.09
Tgfa	9.05	10.11	2.09
Zc4h2	8.72	9.78	2.09
Snx6	9.60	10.66	2.09
D16Ert472e	8.36	9.42	2.09
Ccnc	8.25	9.31	2.09
Frrs1	11.26	12.33	2.09
Adamtsl4	9.51	10.57	2.09
Pcmd2	8.21	9.27	2.09
Dock7	8.91	9.97	2.08
Shroom1	7.07	8.13	2.08
Cops7a	11.39	12.45	2.08
1500011K16Rik	6.81	7.87	2.08
Gcnt3	6.44	7.49	2.08
Uqcrh	10.73	11.79	2.08
Ehd4	10.51	11.56	2.08

Calm2	10.02	11.07	2.08
Rfwd2	8.71	9.76	2.07
Pax9	7.25	8.30	2.07
Socs2	8.16	9.22	2.07
Dedd	9.14	10.19	2.07
Egln3	10.23	11.29	2.07
H3f3a	10.85	11.90	2.07
Pik3r3	8.28	9.34	2.07
L3mbtl3	7.61	8.66	2.07
Lrrc61	8.10	9.15	2.07
Gabrb3	6.62	7.67	2.07
Tirap	9.34	10.39	2.07
0610007P14Rik	11.62	12.67	2.07
Fam185a	7.32	8.37	2.07
Cnksr2	5.37	6.42	2.07
Nudt12	7.57	8.62	2.07
Rpl5	10.91	11.95	2.07
Max	9.91	10.96	2.07
Lrrc51	7.83	8.88	2.07
Fem1b	9.36	10.41	2.07
Gpc1	7.85	8.90	2.07
Inpp5a	9.47	10.52	2.06
Ccdc112	7.63	8.67	2.06
Prkrir	8.29	9.33	2.06
Hemk1	7.18	8.22	2.06
Atl2	8.02	9.06	2.06
Timm8a1	7.03	8.08	2.06
Alg1 Fam86	7.83	8.87	2.06
Rbmxrt	10.35	11.39	2.06
Asnsd1	10.41	11.45	2.06
Blmh	8.61	9.65	2.06
Sh3d20	9.31	10.35	2.05
Timm8a1	7.46	8.49	2.05
Nkiras2 Zfp385c	9.62	10.65	2.05
1200016B10Rik	7.12	8.16	2.05
Uprt	9.97	11.01	2.05
Fam100a	9.69	10.73	2.05
Myo1d	10.52	11.56	2.05
Ola1	9.06	10.10	2.05
Rab32	8.52	9.56	2.05
Dlg1 LOC100047603	10.72	11.76	2.05
Ptges	7.24	8.28	2.05
4930486G11Rik	5.86	6.89	2.05
Ndufc2	10.56	11.60	2.05
Tomm40	9.28	10.31	2.05
Rnf5	9.42	10.46	2.05
H3f3a	10.81	11.84	2.05
Gcnt2	9.59	10.62	2.05
Mios	7.17	8.21	2.05
Shpk	8.08	9.11	2.05
Psma5	9.15	10.18	2.05
Akr1b3 Gm6644	10.54	11.57	2.05
Nedd4l	9.83	10.86	2.05
Rlim	9.25	10.29	2.05
Fgyy	8.13	9.16	2.04

Lactb2	8.33	9.36	2.04
Slc44a2	10.51	11.54	2.04
4933429F08Rik	6.19	7.22	2.04
Iffo2	8.52	9.55	2.04
Dbi	11.54	12.57	2.04
Cstf3	5.61	6.64	2.04
Agps	8.43	9.46	2.04
Kras	8.59	9.62	2.04
D730005E14Rik	7.95	8.98	2.04
Tmem97	10.24	11.27	2.04
Plch2	7.97	8.99	2.04
Eif2s1	10.46	11.49	2.04
Higd2a	11.85	12.88	2.04
Nup210l	6.51	7.54	2.04
Pi4k2a	9.70	10.73	2.04
Zfp608	7.42	8.45	2.04
4930506M07Rik	6.12	7.15	2.04
6230409E13Rik	7.42	8.45	2.04
Kctd3	7.81	8.83	2.04
Ube2a	9.49	10.52	2.04
Hsd17b12	9.11	10.14	2.04
G6pc3	10.12	11.14	2.04
Ptgfrn	8.41	9.44	2.04
Cav1	11.45	12.47	2.04
Ptpn6	7.67	8.69	2.03
Rab27a	6.28	7.30	2.03
Pdcd5	10.81	11.83	2.03
Atp5s	7.66	8.69	2.03
Eif3m	8.43	9.45	2.03
Pex19	9.70	10.72	2.03
Socs6	8.41	9.44	2.03
Ubn2	8.13	9.15	2.03
Pcgf1	8.30	9.32	2.03
Cyp20a1	9.12	10.14	2.03
Gtf2b	8.74	9.76	2.03
Pdlim5	10.61	11.63	2.03
Ephb4	9.33	10.35	2.03
Acox2	6.36	7.38	2.03
Ppp3r1	9.20	10.22	2.03
Hivep2	7.65	8.67	2.03
Gm6644 Akr1b3	10.64	11.66	2.03
Adora2b	7.59	8.60	2.03
Jagn1	10.04	11.06	2.03
Insig1	9.79	10.81	2.02
Hgfac	6.87	7.89	2.02
Pgm2	9.65	10.67	2.02
Vti1b Arg2	8.51	9.53	2.02
Mff	9.66	10.68	2.02
Chd7	7.50	8.51	2.02
Btf3l4	9.80	10.82	2.02
Rbmxt	10.29	11.31	2.02
Ppp2r5e	8.65	9.66	2.02
Gm6644 Akr1b3	10.54	11.55	2.02
Rpl5	10.48	11.49	2.02
Vps26b	9.78	10.79	2.02

1110067D22Rik	9.22	10.23	2.02
Hoxc4	6.47	7.49	2.02
Palld	7.39	8.41	2.02
Tmf1	8.48	9.49	2.02
Limd1	8.83	9.84	2.02
Acsl4	8.75	9.76	2.02
Pgk1	11.79	12.81	2.02
Pgk1	11.79	12.81	2.02
Rarres1 Gm8515	8.31	9.32	2.02
Gm13375	7.77	8.78	2.01
Minpp1	8.83	9.84	2.01
Ptdss1	9.68	10.69	2.01
Ints12	9.84	10.85	2.01
Gm10784	7.75	8.76	2.01
Gabarapl2	6.21	7.22	2.01
Lypd6b	6.83	7.84	2.01
Abhd5	9.60	10.60	2.01
Armc9	7.82	8.82	2.01
Cib2 Sh2d7	7.49	8.49	2.01
1110008P14Rik	9.13	10.14	2.01
2210403K04Rik Mir22	7.79	8.80	2.01
Net1	9.22	10.22	2.01
Echdc1	8.93	9.93	2.01
Myst1 Prss8	8.04	9.05	2.01
Mettl2	9.20	10.21	2.01
Dctd	10.64	11.65	2.01
9030420J04Rik	8.26	9.27	2.01
Gm3771	8.68	9.69	2.01
Camsap11i	9.75	10.75	2.00
Grxcr1	8.24	9.25	2.00
Hspe1 Hspe1-rs1	10.79	11.79	2.00
Hlcs	7.77	8.77	2.00
Stx7	8.93	9.93	2.00
Anxa6	10.45	11.45	2.00
Tmem56	5.21	6.22	2.00
Nebi	6.75	7.75	2.00
Irx2	7.60	8.60	2.00
Gm9853	7.46	8.46	2.00
Ap1g1	10.16	11.16	2.00
Hist1h2ao Gm11276			
Hist1h2ae Hist1h2an			
Hist1h2af Hist1h2ad H			
ist1h2ag Hist1h2ah Hi			
st1h2ai Hist1h2ak	13.86	12.86	-2.00
H2afv	12.06	11.06	-2.00
	13.15	12.15	-2.00
Sdhb	10.38	9.38	-2.00
9630013D21Rik	6.68	5.68	-2.00
4932438A13Rik	8.85	7.85	-2.00
Recql4 Mfsd3	8.17	7.16	-2.01

Gm11276 Hist1h2an			
Hist1h2af Hist1h2ao H			
ist1h2ai Hist1h2ad His			
t1h2ag Hist1h2ah Hist			
1h2ak	13.85	12.85	-2.01
Fgfbp3	8.91	7.91	-2.01
Cpsf3 Pusl1	11.23	10.22	-2.01
Ptpla	8.10	7.09	-2.01
Acap3	8.83	7.82	-2.01
Gpr77	7.96	6.95	-2.01
Wdr90	8.29	7.28	-2.01
Zfp346	9.84	8.84	-2.01
Dusp1	12.99	11.98	-2.01
D330041H03Rik	6.76	5.75	-2.01
Fam13c Phyhipl	7.81	6.81	-2.01
Hip1	9.74	8.74	-2.01
Ccdc141	7.27	6.26	-2.01
Foxf1a	8.68	7.67	-2.01
Tspan32	7.39	6.38	-2.01
Arfgef2	10.31	9.30	-2.01
Emx2	7.36	6.35	-2.01
Hist1h2af Hist1h2ao G			
m11276 Hist1h2an Hi			
st1h2ad Hist1h2ah His			
t1h2ai Hist1h2ak	13.98	12.97	-2.02
Mdm2	12.87	11.86	-2.02
Ankrd12	9.19	8.18	-2.02
Sirt1	8.50	7.49	-2.02
Col5a2	7.87	6.86	-2.02
Hist1h2ao Gm11276			
Hist1h2ai Hist1h2ad H			
ist1h2ah	14.00	12.99	-2.02
Smad1	9.59	8.57	-2.02
S100a13	9.46	8.44	-2.02
Csf1	11.01	10.00	-2.02
Tns1	10.23	9.21	-2.02
Hist3h2bb	8.89	7.88	-2.02
Hist1h2ao Gm11276			
Hist1h2an Hist1h2af H			
ist1h2ad Hist1h2ah Hi			
st1h2ai Hist1h2ak	13.88	12.87	-2.02
Lgmn	12.12	11.11	-2.02
Hist1h2ao Gm11276			
Hist1h2an Hist1h2af H			
ist1h2ag Hist1h2ad Hi			
st1h2ah Hist1h2ai Hist			
1h2ak	13.85	12.84	-2.02
Med13l	10.84	9.83	-2.02
Cep192	9.43	8.41	-2.02
Spc25	9.36	8.34	-2.02
	6.88	5.86	-2.02
Cenpe	8.80	7.78	-2.03
Armcx1	7.56	6.55	-2.03

Bcl2l11	9.13	8.12	-2.03
Bahcc1	8.45	7.43	-2.03
Hist1h2ao Gm11276			
Hist1h2an Hist1h2af H			
ist1h2ad Hist1h2ah Hi			
st1h2ai Hist1h2ak	13.97	12.95	-2.03
Rere	10.43	9.41	-2.03
Slc27a3	7.90	6.88	-2.03
Vps13d	9.08	8.06	-2.03
Ctso	9.81	8.79	-2.03
Arl4a	7.77	6.75	-2.03
Hnrmpd	10.12	9.10	-2.03
Hist1h2ao Gm11276			
Hist1h2ac Hist1h2an			
Hist1h2af Hist1h2ah H			
ist1h2ad Hist1h2ag Hi			
st1h2ai Hist1h2ak	13.97	12.94	-2.03
Rhob	10.57	9.54	-2.03
Adam33	8.61	7.58	-2.04
Ii20rb	8.93	7.90	-2.04
Trnp1	10.54	9.51	-2.04
Pcgf5	8.73	7.70	-2.04
Trim56	10.65	9.62	-2.04
B3galt1	6.90	5.87	-2.04
Abcb1b	9.81	8.78	-2.04
Slc39a14	9.28	8.25	-2.04
Trim37	9.94	8.91	-2.04
Parp14	9.55	8.52	-2.04
Fes	8.38	7.35	-2.04
Gstt3	8.48	7.45	-2.04
Hist2h2aa1 Hist2h2ac			
Hist2h2aa2 Hist2h3c1			
Fam124a	13.65	12.62	-2.04
Foxred2	8.81	7.78	-2.05
Foxred2	8.12	7.08	-2.05
A630089N07Rik	10.72	9.68	-2.05
Hmcn1	6.89	5.86	-2.05
Dst	9.51	8.48	-2.05
Trim46	8.26	7.22	-2.05
Gkap1	7.30	6.27	-2.05
Snora31	7.98	6.95	-2.05
Pyroxd2	7.58	6.55	-2.05
Chst14	10.71	9.68	-2.05
Pkmyt1 Paqr4	10.27	9.23	-2.05
Exosc10	11.49	10.45	-2.06
Pld4	7.21	6.17	-2.06
4932438A13Rik	8.55	7.51	-2.06
Zfp763	6.66	5.62	-2.06
	9.43	8.38	-2.06
Shmt1	9.43	8.39	-2.06
Rpa1	10.82	9.78	-2.06
Enpp2	7.27	6.23	-2.06

Hist1h2be Hist1h2bn			
Hist1h2bk Hist1h2bg			
Hist1h2bl Hist1h2bh H			
ist1h2bj Hist1h2bf Hist			
1h2bm Hist1h2bp	13.62	12.57	-2.06
Snora23	11.39	10.34	-2.06
Hspa12b	7.83	6.78	-2.06
Pkd2l2 Fam13b	9.00	7.96	-2.06
Zmym6 Gm12942	8.61	7.56	-2.06
Cd200	6.83	5.78	-2.06
Bok	9.19	8.15	-2.06
Onecut2	8.92	7.88	-2.06
Mdm1	8.38	7.34	-2.07
Gpsm3	8.77	7.72	-2.07
Lrrn4	7.69	6.65	-2.07
2610005L07Rik 6820			
431F20Rik A430108E			
01Rik	10.39	9.35	-2.07
Scarna13	11.44	10.39	-2.07
Tinagl1	13.11	12.07	-2.07
Rtn4rl1	8.03	6.98	-2.07
Angptl6 A230050P20			
Rik	8.46	7.41	-2.07
Zfp580	8.28	7.23	-2.07
lkbip	9.61	8.56	-2.07
Dnmt1	11.22	10.17	-2.07
Anks6	7.44	6.38	-2.07
Cyp1b1 1700038P13			
Rik	10.08	9.03	-2.08
Sox5	7.95	6.90	-2.08
2610203C20Rik	8.14	7.08	-2.08
Ahi1	7.57	6.51	-2.08
Muc16	7.73	6.67	-2.08
Acer2	9.03	7.97	-2.08
Sfxn4	6.90	5.84	-2.08
Tll1	7.55	6.50	-2.08
Rab36	7.42	6.37	-2.08
Gm10808	6.65	5.59	-2.08
Gjc1	8.58	7.52	-2.08
Cmb1	8.32	7.26	-2.08
Vegfb	10.77	9.71	-2.08
	9.00	7.94	-2.08
Ifi47 Olf1r56	6.44	5.39	-2.08
Gal3st2 Gm6086	7.21	6.15	-2.08
Trdn	6.57	5.51	-2.08
Neurl1B	9.33	8.27	-2.08
	10.68	9.62	-2.08
Tor1aip1 Tor1aip2	9.35	8.29	-2.09
Sema3a	7.07	6.01	-2.09
Rif1	9.34	8.28	-2.09
Xylb	8.57	7.51	-2.09
	9.06	8.00	-2.09

Ott Gm15085 Gm15127 OTTMUSG00000019001 Luzp4 Gm15097 Gm15091 Gm15128			
Gm10439	7.29	6.23	-2.09
Syngap1	8.57	7.51	-2.09
Helq	8.86	7.80	-2.09
Susd2	8.46	7.40	-2.09
Rapgef2	9.79	8.73	-2.09
Pnp	11.78	10.72	-2.09
Mtss1l	8.75	7.68	-2.09
Luzp4 Ott Gm15085 Gm15127 OTTMUSG00000019001 Gm15128 Gm10439 Gm15097			
Gm15091	7.16	6.09	-2.09
Ppp2r5d	11.01	9.94	-2.10
Csrnp1	8.84	7.77	-2.10
Samd5	8.99	7.92	-2.10
Fam122b	8.96	7.89	-2.10
Zfp456	7.86	6.79	-2.10
	8.53	7.46	-2.10
Cntnap5a	7.41	6.34	-2.10
1600002H07Rik	9.68	8.61	-2.10
Cxxc5	9.28	8.20	-2.10
Dagla	8.75	7.68	-2.10
2610005L07Rik 6820			
431F20Rik	11.77	10.70	-2.10
Micall1	9.65	8.57	-2.10
Ogfr	11.21	10.14	-2.10
Kcnj3	7.33	6.25	-2.11
Smarcd3 Chpf2	7.78	6.70	-2.11
H2-M3	8.76	7.69	-2.11
Reep1	7.67	6.60	-2.11
4930518l15Rik	7.76	6.69	-2.11
Sfrs4	10.31	9.23	-2.11
Slbp	10.07	8.99	-2.11
Bicc1	8.08	7.00	-2.11
Ott Gm15085 Gm15127 OTTMUSG00000019001 Luzp4 Gm15097 Gm15091 Gm10439			
Gm15128	7.31	6.23	-2.11
Apaf1	10.55	9.47	-2.11
Gm4980	9.00	7.92	-2.11
Lrwd1	10.44	9.36	-2.11
6820431F20Rik 2610005L07Rik A430108E			
01Rik	12.01	10.93	-2.11
Snord95	8.84	7.76	-2.11
Prss23	10.60	9.52	-2.12
Epb4.1l2	10.11	9.03	-2.12
Mad2l2	10.23	9.15	-2.12
Snx21 Acot8	9.35	8.27	-2.12
Sdc2	10.37	9.29	-2.12

Fen1 Gm10143	9.86	8.77	-2.12
Kcnd1	7.56	6.48	-2.12
Anpep	8.01	6.93	-2.12
	7.36	6.27	-2.12
X99384	8.35	7.27	-2.12
Nppb	7.73	6.65	-2.12
Sema6b	8.41	7.32	-2.12
Sema6b	8.41	7.32	-2.12
	11.85	10.76	-2.12
Mapk4	7.97	6.88	-2.12
Dennd5a	10.57	9.48	-2.12
Pkp4	9.85	8.77	-2.12
Rsph9	7.74	6.65	-2.12
	9.13	8.04	-2.13
Tbxa2r	8.48	7.39	-2.13
Hist1h2an Hist1h2ao			
Gm11276 Hist1h2af H			
ist1h2ag Hist1h2ad Hi			
st1h2ah Hist1h2ai Hist			
1h2ak	13.89	12.80	-2.13
Ift80	8.75	7.66	-2.13
Fam176b	8.91	7.81	-2.13
Igfbp4	7.84	6.75	-2.13
	10.81	9.72	-2.13
Ak1	11.84	10.75	-2.13
	10.81	9.72	-2.13
Rapsn	7.70	6.61	-2.13
Yars	11.04	9.95	-2.13
2310001H12Rik LOC			
100044193 LOC1000			
45081	9.18	8.08	-2.13
Arfgef2	9.89	8.80	-2.13
Hivep3	8.85	7.75	-2.13
Hlx	8.43	7.34	-2.14
Arsa	9.60	8.51	-2.14
Zdhhc2	8.48	7.39	-2.14
Hmcn1	7.09	5.99	-2.14
Klf4	10.59	9.49	-2.14
	7.80	6.70	-2.14
Gnptg	10.26	9.16	-2.14
Tsc22d2	10.40	9.30	-2.14
	6.16	5.06	-2.14
Dennd5b	7.01	5.91	-2.14
Itga2b	8.58	7.48	-2.15
	11.57	10.46	-2.15
	10.63	9.52	-2.15
Fanca	9.24	8.13	-2.15
Adcy6	9.79	8.69	-2.15
Casp12	9.71	8.61	-2.15
Trim6	7.45	6.35	-2.15
Ampd3	10.97	9.86	-2.15
Gns	11.71	10.61	-2.15
Lpin1	10.48	9.37	-2.15
4922501C03Rik	8.64	7.53	-2.15
Anapc11	10.74	9.64	-2.15

Wdr91	9.70	8.59	-2.15
Gpr155	7.84	6.73	-2.15
Alg1 Fam86	11.56	10.46	-2.15
Cep192	9.17	8.06	-2.16
Evc2	8.17	7.06	-2.16
Camk1d	7.42	6.31	-2.16
Acot1	7.84	6.73	-2.16
Rad51ap1	8.09	6.98	-2.16
Rttm	8.35	7.24	-2.16
Syngap1	8.74	7.63	-2.16
Apbb1	8.19	7.07	-2.16
Pisd-ps1 Pisd-ps3	10.90	9.79	-2.16
Smpd3	8.08	6.96	-2.16
Cdkn2d Gm4694	9.08	7.97	-2.16
Peli2	8.45	7.33	-2.16
	7.68	6.57	-2.16
Ott Gm15085 Gm151			
27 OTTMUSG000000			
19001 Luzp4 Gm1509			
7 Gm15128 Gm15091			
Gm10439	7.38	6.27	-2.17
Zbtb8a	9.15	8.04	-2.17
Hmcn1	7.80	6.69	-2.17
2310001H12Rik	9.68	8.57	-2.17
	9.11	7.99	-2.17
Tmem150a	11.08	9.97	-2.17
Ott Gm15085 Gm151			
27 OTTMUSG000000			
19001 Luzp4 Gm1509			
1 Gm15097 Gm10439			
Gm15128	7.17	6.05	-2.17
Ott Gm15085 OTTMU			
SG00000019001 Luzp			
4 Gm15127 Gm15128			
Gm15091 Gm10439			
Gm15097	7.38	6.26	-2.17
Cyp2f2	9.62	8.50	-2.17
Abhd8	9.66	8.53	-2.18
Nup160	10.24	9.12	-2.18
Brca2	9.13	8.00	-2.18
Dock5	9.59	8.47	-2.18
Znfx1	9.82	8.69	-2.18
4932438A13Rik	7.75	6.62	-2.18
6030499A19Rik	9.59	8.47	-2.18
Fam189b	8.59	7.47	-2.18
Ptgr1	9.06	7.94	-2.18
Coro2b	7.96	6.83	-2.18
Sykb	9.08	7.96	-2.18
Asap3	9.06	7.94	-2.18
Lypd1 Gpr39	8.20	7.08	-2.18
Kank3	8.36	7.24	-2.18
Map3k12	10.02	8.89	-2.19
Nme6 LOC100046163			
LOC100046157	11.05	9.92	-2.19
Kcnab2	8.29	7.17	-2.19

Gm13154 Gm13152			
Gm13212	6.62	5.49	-2.19
Chst1	7.98	6.85	-2.19
Ifit2	9.38	8.25	-2.19
Nudc Nudc-ps1	9.81	8.68	-2.19
Grk5	8.47	7.34	-2.19
Gls2	8.43	7.30	-2.19
4930422G04Rik	9.11	7.97	-2.20
Aldh4a1	9.97	8.83	-2.20
Dennd1a	9.16	8.03	-2.20
	13.13	11.99	-2.20
Il2rg	6.96	5.83	-2.20
Trip6	10.49	9.36	-2.20
Hist1h2ab	9.94	8.80	-2.20
Casp8ap2	9.06	7.92	-2.20
	7.76	6.62	-2.20
Fam38a	11.36	10.22	-2.20
Stk39	10.01	8.87	-2.20
Nrbp2	8.42	7.28	-2.20
	9.67	8.53	-2.20
Nusap1 Oip5	9.91	8.77	-2.20
	10.82	9.68	-2.20
Cox6a2	8.54	7.40	-2.20
Slit3	8.18	7.04	-2.20
Fam38a	11.30	10.15	-2.21
Smad6	8.58	7.44	-2.21
Nudt9	10.81	9.67	-2.21
Fam40b	6.94	5.80	-2.21
Adar	9.62	8.47	-2.21
Homer3 Ddx49	11.09	9.94	-2.21
Tacc1	7.58	6.43	-2.21
Hmcn1	7.66	6.51	-2.21
Scarna8	7.67	6.52	-2.22
4932438A13Rik	9.16	8.01	-2.22
Gm4979 Zfp442	9.60	8.45	-2.22
Prim1	10.02	8.87	-2.22
Hist4h4	11.00	9.85	-2.22
Dck	10.11	8.96	-2.22
Pdgfra	7.85	6.70	-2.22
Tnfrsf14	8.51	7.37	-2.22
Hmcn1	7.59	6.44	-2.22
Tspo	12.54	11.39	-2.22
Il20rb	8.65	7.50	-2.22
4930422G04Rik	7.76	6.61	-2.22
Lgals1	13.42	12.27	-2.22
Wdr8	10.69	9.54	-2.22
Dlgap5	9.42	8.26	-2.22
	7.14	5.98	-2.22
Eda2r	11.00	9.85	-2.23
Mthfr	8.86	7.71	-2.23
Rnu73b	10.95	9.80	-2.23
Fam38a	11.78	10.63	-2.23
1700007K13Rik	11.79	10.64	-2.23
Mical1	8.32	7.16	-2.23

Ott Gm15085 Luzp4 Gm15127 OTTMUSG0000019001 Gm15097 Gm15091	7.45	6.29	-2.23
	9.39	8.23	-2.23
Chpt1	7.87	6.71	-2.23
Pard3b	8.01	6.85	-2.23
Cebpb	9.44	8.28	-2.23
Hist1h2ba	8.57	7.41	-2.23
Msh3	8.78	7.62	-2.23
Trafd1	11.87	10.71	-2.24
Spp1	8.72	7.55	-2.24
4932438A13Rik	9.66	8.49	-2.24
	10.98	9.82	-2.24
Trpc1	8.21	7.05	-2.24
	10.98	9.82	-2.24
Pola2	10.75	9.59	-2.24
Ano6	11.23	10.07	-2.24
Mns1	7.57	6.40	-2.24
Ccdc3	9.00	7.83	-2.24
Prdx4	9.51	8.34	-2.24
Hmcn1	7.12	5.96	-2.24
F630048H11Rik	7.18	6.01	-2.25
Xrcc3	9.65	8.48	-2.25
Gm5431	6.38	5.21	-2.25
2510012J08Rik	10.02	8.85	-2.25
Asrgl1	8.39	7.22	-2.25
Depdc6 Gm9920	8.44	7.27	-2.25
Plk4	9.12	7.95	-2.25
Gprc5b	11.47	10.30	-2.25
Slbp	10.03	8.86	-2.25
Stmn1	12.34	11.17	-2.25
Ifi44	11.40	10.23	-2.25
Oip5 Nusap1	7.98	6.80	-2.25
Ndn	7.52	6.35	-2.25
4932438A13Rik	7.62	6.45	-2.26
Hoxb4	7.78	6.61	-2.26
Hmcn1	7.28	6.11	-2.26
	7.61	6.43	-2.26
Arhgap6	7.37	6.20	-2.26
Gm5970	6.64	5.47	-2.26
Stmn1	12.26	11.09	-2.26
Dtnbp1	10.07	8.90	-2.26
Cdc45	10.00	8.82	-2.26
Lefty1	7.45	6.27	-2.26
4833427G06Rik	8.05	6.87	-2.26
Prkce	8.72	7.54	-2.26
Hpvc-ps	8.20	7.02	-2.26
Itga1	7.10	5.92	-2.27
Tspyl2	9.88	8.70	-2.27
Lmf2	11.72	10.54	-2.27
Ets1	10.12	8.94	-2.27
Tap2	9.75	8.57	-2.27
Fas	8.99	7.81	-2.27
Magee1	7.80	6.62	-2.27

Gm10554	6.34	5.16	-2.27
Ccdc141	7.18	6.00	-2.27
Hmcn1	7.23	6.04	-2.27
	9.46	8.27	-2.27
Hoxa6	8.54	7.35	-2.27
Oas1f	7.37	6.19	-2.27
Snora21	9.12	7.94	-2.27
Arsj	7.35	6.17	-2.27
	8.38	7.19	-2.27
Abcd1	8.78	7.59	-2.28
Snord14d Snord14c H			
spa8	10.66	9.48	-2.28
Nqo1	9.46	8.27	-2.28
Il6ra	9.82	8.63	-2.28
Il20rb	8.70	7.51	-2.28
Gdf11	9.26	8.07	-2.28
Cd274	9.07	7.89	-2.28
Atf5 Nup62-il4i1	9.57	8.38	-2.28
Sp140 Arhgef12 C130			
026 21Rik A530032D			
15Rik LOC100040994			
LOC100041057	9.46	8.27	-2.28
Aurkb	11.53	10.34	-2.28
	7.63	6.44	-2.28
Gm10796	8.27	7.08	-2.28
4921517L17Rik	7.97	6.77	-2.29
Pkd2	9.72	8.52	-2.29
Tnfaip2	11.12	9.92	-2.29
Hist2h4	13.37	12.17	-2.29
4930599N23Rik	8.17	6.97	-2.29
Nova1	6.52	5.32	-2.29
Adcy1	8.10	6.91	-2.29
Rras2	11.44	10.24	-2.29
OTTMUSG00000019			
001 Luzp4 Ott Gm150			
85 Gm15127 Gm1512			
8 Gm15097 Gm10439			
Gm15091	7.43	6.24	-2.29
Snord14d Snord14c H			
spa8	10.66	9.46	-2.29
Snrnp25	10.48	9.28	-2.29
Nfic	10.60	9.40	-2.30
Hmcn1	8.61	7.41	-2.30
	8.56	7.36	-2.30
Pten	7.62	6.42	-2.30
EG634650 Mpa2l	6.70	5.50	-2.30
4932438A13Rik	8.83	7.62	-2.30
Ncapd2	10.46	9.25	-2.30
Efemp1	13.02	11.82	-2.31
Gpx4	12.34	11.13	-2.31
Sfmbt1	8.47	7.26	-2.31
Mrpl20	10.35	9.15	-2.31
2210023G05Rik	12.28	11.07	-2.31
Mybl1	10.94	9.73	-2.31
Alkbh7	9.60	8.39	-2.31

Slc39a13	10.87	9.66	-2.31
Hmcn1	6.98	5.77	-2.31
BC003266	10.03	8.82	-2.31
Gch1	7.53	6.32	-2.32
Espl1	8.68	7.47	-2.32
Ehbp1	9.13	7.92	-2.32
Hmgb2	9.44	8.23	-2.32
	7.43	6.21	-2.32
Creld2	11.20	9.99	-2.32
Kdm5d LOC10004041			
2	6.84	5.62	-2.32
Gpr128	7.03	5.82	-2.32
4932438A13Rik	8.52	7.31	-2.33
	7.08	5.86	-2.33
Pdgfc	10.19	8.97	-2.33
Hmcn1	7.25	6.03	-2.33
Psmb10	9.94	8.72	-2.33
	9.09	7.87	-2.33
Chn2 9130019P16Rik	9.10	7.88	-2.33
Podn	8.51	7.29	-2.33
	10.19	8.97	-2.33
Hmcn1	7.19	5.97	-2.33
Sulf2	12.15	10.93	-2.33
5730590G19Rik	8.88	7.65	-2.33
Hist1h2ak	12.87	11.65	-2.34
	8.34	7.12	-2.34
Snord34 Rpl13a	11.03	9.80	-2.34
Syn1	8.43	7.21	-2.34
Adam19	8.16	6.94	-2.34
Pcdh19	7.62	6.39	-2.34
Hist2h2bb	9.76	8.53	-2.34
Hmcn1	7.26	6.03	-2.34
Metrn	9.04	7.81	-2.34
AI427809	7.99	6.77	-2.34
Efna2	9.24	8.01	-2.34
Snord14e	10.37	9.14	-2.34
Znrd1	10.23	9.00	-2.35
Thsd7a	8.30	7.07	-2.35
Glud1	11.41	10.18	-2.35
Mcm8	8.56	7.33	-2.35
Clec1a	7.34	6.11	-2.35
Trdn	6.84	5.61	-2.35
Ccdc46	7.27	6.04	-2.35
Hmcn1	7.02	5.78	-2.35
Cyp27a1	7.98	6.75	-2.35
	11.42	10.19	-2.35
Alox5ap	8.17	6.94	-2.35
St3gal1	9.45	8.22	-2.35
Mcm10	9.27	8.03	-2.35
Socs3	9.46	8.22	-2.36
Anxa8	11.71	10.48	-2.36
Gm10752	7.51	6.27	-2.36
Hap1	8.53	7.29	-2.36
Gpx4	12.41	11.17	-2.36

Cby1	10.17	8.92	-2.36
Iqgap3	9.02	7.78	-2.36
Sphkap	7.06	5.82	-2.37
4930534B04Rik	8.32	7.08	-2.37
Man1a	9.50	8.25	-2.37
Snora2b	8.27	7.03	-2.37
Creg1 Pappa2	10.80	9.55	-2.37
Rad54l	8.91	7.66	-2.37
Mrps26	9.42	8.18	-2.37
Vps13c	9.21	7.96	-2.37
Slc39a7	11.13	9.88	-2.37
Mocos	8.03	6.78	-2.38
Bambi	8.43	7.18	-2.38
Cyp4f16	9.11	7.86	-2.38
Ddost	12.76	11.51	-2.38
Eepd1	8.52	7.27	-2.38
Hmgb2	9.44	8.19	-2.38
Hmmr	8.53	7.28	-2.38
4932438A13Rik	9.35	8.09	-2.38
C230055K05Rik	6.61	5.36	-2.38
Map3k8	8.92	7.67	-2.38
Pdxk	9.53	8.27	-2.39
Adamts6	7.32	6.06	-2.39
Dna2	9.24	7.98	-2.39
	8.32	7.06	-2.39
Gxylt1	9.55	8.30	-2.39
Hmcn1	6.60	5.35	-2.39
Pisd-ps2	10.79	9.53	-2.39
Top2a	6.65	5.39	-2.39
Apol8	8.22	6.97	-2.39
D4Wsu53e	10.16	8.91	-2.39
Hjurp 6430706D22Rik	10.51	9.25	-2.39
Gm10638 Siah1a	9.88	8.62	-2.40
Hmox1	11.81	10.55	-2.40
Slc31a2	12.71	11.45	-2.40
Cndp2	11.37	10.11	-2.40
Pml	11.72	10.46	-2.40
Hmcn1	7.24	5.97	-2.40
Itgb7	8.49	7.22	-2.40
Nynrin	8.09	6.83	-2.41
Trdn	7.98	6.71	-2.41
Rad54b	8.63	7.36	-2.41
Syne2	9.17	7.91	-2.41
Hist1h2bh	11.56	10.29	-2.41
Gxylt1	9.44	8.17	-2.41
Donson	8.84	7.57	-2.41
Rab39b	7.49	6.22	-2.42
Cdca2	8.62	7.35	-2.42
Ncapd3	10.38	9.11	-2.42
Gata4	8.77	7.49	-2.42
H2-T24	8.07	6.79	-2.42
Rfc3	10.52	9.24	-2.42
	11.08	9.81	-2.42
Tyms Tyms-ps	11.08	9.81	-2.42

Ott Gm15085 Luzp4 Gm15127 OTTMUSG0000019001 Gm15128 Gm15097 Gm10439	7.52	6.24	-2.43
Masp1	7.71	6.43	-2.43
Hmcn1	6.84	5.56	-2.43
	8.95	7.67	-2.43
F730047E07Rik	8.69	7.41	-2.43
Tram2	9.56	8.27	-2.43
Slc12a8	8.18	6.90	-2.43
Gtse1	11.85	10.57	-2.43
Twf2	10.44	9.16	-2.43
Slco2a1	9.33	8.04	-2.44
4932438A13Rik	9.04	7.76	-2.44
Ptpn7	8.53	7.24	-2.44
Cdc7	7.94	6.65	-2.44
Depdc1a	7.96	6.67	-2.44
1110012D08Rik	9.32	8.03	-2.44
Pkd1	9.65	8.36	-2.44
4932438A13Rik	9.75	8.46	-2.44
Sod3	7.33	6.04	-2.44
Gata3	8.56	7.27	-2.44
Cdc6	9.18	7.89	-2.44
Acta2	8.56	7.27	-2.45
Unk	9.87	8.58	-2.45
	10.53	9.24	-2.45
Spnb2	12.30	11.01	-2.45
H1fx	8.80	7.50	-2.45
Zwilch Lctl	9.42	8.12	-2.45
Sesn2	10.87	9.57	-2.46
Fut10	8.62	7.32	-2.46
P4ha1	10.39	9.09	-2.46
Tbx15	8.76	7.46	-2.46
Dvl2 Mir324	10.32	9.02	-2.46
Prr11	9.87	8.57	-2.46
Synm	8.60	7.30	-2.46
Ptgds	9.37	8.07	-2.46
1810032O08Rik St6g			
alnac2	8.55	7.25	-2.46
Rnd2	10.05	8.75	-2.46
Tex2	9.77	8.47	-2.47
Kif4	8.48	7.18	-2.47
Fbln7	8.37	7.07	-2.47
Klhl13	7.47	6.17	-2.47
Mical2	9.20	7.90	-2.47
Them5	7.95	6.65	-2.47
2610005L07Rik A430			
108E01Rik	10.21	8.90	-2.47
Pvt1	9.82	8.52	-2.47
Tm4sf1	13.06	11.76	-2.47
Birc5	8.90	7.60	-2.47
Rad9	11.42	10.11	-2.48
Trib3	9.02	7.71	-2.48
Antxr2	9.02	7.71	-2.48

Gen1	9.01	7.70	-2.48
Fam83d	9.30	7.99	-2.48
Shox2	7.82	6.51	-2.48
Samd14	8.53	7.22	-2.48
Arrb2	9.74	8.42	-2.48
Atp10a	9.84	8.52	-2.49
Dnm1	9.00	7.69	-2.49
Ifi30	12.85	11.53	-2.49
Tbc1d4	8.24	6.93	-2.49
Twist1	8.78	7.47	-2.49
Cnih2	8.67	7.35	-2.49
Serpina3f Serpina3g	7.44	6.12	-2.50
Cys1	8.00	6.68	-2.50
Popdc3	8.16	6.84	-2.50
Hmcn1	6.96	5.64	-2.50
Ncaph	11.01	9.69	-2.50
Arhgap20 9230115E2			
1Rik	7.61	6.29	-2.50
Cdt1	11.61	10.29	-2.50
Snord16a	9.86	8.53	-2.50
F630110N24Rik	10.03	8.71	-2.50
Cst3	13.95	12.62	-2.51
2610002D18Rik	9.52	8.20	-2.51
BC094916	7.30	5.98	-2.51
Cdc20	10.47	9.14	-2.51
Hmcn1	7.25	5.92	-2.51
Cobll1	11.38	10.05	-2.52
Tgfb3	7.60	6.26	-2.52
Tcirg1	12.13	10.80	-2.52
Psme2 Psme2b-ps	10.63	9.29	-2.52
Fam198b	9.90	8.56	-2.52
Hmcn1	6.76	5.42	-2.53
Tnr	7.81	6.48	-2.53
Cacna2d1	8.35	7.01	-2.53
Kcnip3	8.22	6.88	-2.53
Armcx2	7.79	6.45	-2.53
Zbed3	10.23	8.89	-2.53
Prdm5	7.67	6.33	-2.53
Celf5	9.47	8.13	-2.53
Gm3338	8.93	7.59	-2.53
Gm10419	7.20	5.86	-2.54
Hmcn1	7.44	6.10	-2.54
Igf2bp1	8.51	7.17	-2.54
4932438A13Rik	9.01	7.67	-2.54
Depdc1a	8.02	6.67	-2.54
Itgb8	7.68	6.34	-2.54
Sp8	7.79	6.44	-2.54
Lonp1	9.98	8.63	-2.54
Pfn2	8.55	7.21	-2.55
Stat1	10.84	9.50	-2.55
Gas1	9.55	8.20	-2.55
Anln	10.78	9.43	-2.55
Rhebl1	8.25	6.90	-2.55
Rpain	9.55	8.20	-2.55
Pom121 Nsun5	10.88	9.53	-2.55

Sgol1	9.15	7.80	-2.55
1110021L09Rik	7.77	6.42	-2.56
Clcn7	10.94	9.58	-2.56
Slfn2	10.45	9.09	-2.56
Ppap2b	9.95	8.59	-2.57
Itga10	8.52	7.15	-2.57
Ap1s2	10.00	8.64	-2.57
Ano3	7.79	6.43	-2.57
Adam15	10.85	9.49	-2.57
Hoxd10	7.98	6.62	-2.58
Sec14l1	10.70	9.33	-2.58
Cpeb1	7.49	6.12	-2.58
Bin1	9.86	8.49	-2.58
Aif1l	9.89	8.52	-2.58
Racgap1	10.56	9.19	-2.58
Tns1	10.14	8.77	-2.59
AnglRnase4	10.60	9.23	-2.59
	9.94	8.56	-2.59
Tjap1	10.16	8.79	-2.59
Tbkbp1	9.16	7.79	-2.60
Hmgb2	9.40	8.02	-2.60
Ica1	8.54	7.16	-2.60
Leprel2	8.91	7.54	-2.60
Ahnak2	12.49	11.11	-2.60
9330175E14Rik	8.17	6.79	-2.60
Palm	9.62	8.24	-2.60
Hoxb9	9.24	7.86	-2.60
Plin4	8.37	6.99	-2.61
	9.42	8.04	-2.61
Hmgb2	9.50	8.12	-2.61
Galt	9.42	8.04	-2.61
Spag5	8.81	7.42	-2.61
Chtf18	9.35	7.97	-2.61
Chaf1b	11.86	10.47	-2.61
Tns1	11.52	10.14	-2.61
E2f1	10.38	8.99	-2.61
Hhex	7.77	6.38	-2.61
Snord49a	10.99	9.60	-2.61
Cdon	9.69	8.31	-2.61
Cxcl12	7.99	6.60	-2.61
Mpdz	8.39	7.00	-2.61
Hist1h4h	8.61	7.22	-2.61
Ppef1	7.14	5.75	-2.61
Hist1h2aa	9.77	8.38	-2.61
Dscc1	7.01	5.62	-2.62
Bicd1	7.51	6.12	-2.62
Trnau1ap	10.39	8.99	-2.62
Slfn5	7.35	5.96	-2.62
Maf	9.73	8.34	-2.63
Flnb	11.50	10.11	-2.63
Snora28	10.42	9.02	-2.63
Cenpi	8.73	7.33	-2.63
Notch3	9.32	7.92	-2.63
Mfsd7a	8.40	7.00	-2.63
Cdk2	10.48	9.08	-2.64

C1rl	8.55	7.15	-2.64
C530030P08Rik	11.76	10.36	-2.64
Scn1b	10.05	8.65	-2.64
C530030P08Rik	11.50	10.10	-2.64
Letmd1	10.04	8.64	-2.64
Haus4	9.20	7.80	-2.64
Plec	10.13	8.73	-2.65
Mamld1	8.50	7.09	-2.65
Setdb2	7.27	5.86	-2.65
Dnajc9	10.26	8.85	-2.65
Hmcn1	7.26	5.85	-2.65
Gm6651	8.99	7.58	-2.66
Stil	9.36	7.94	-2.66
Lamc1	10.51	9.09	-2.66
Zdhhc18	11.12	9.71	-2.66
Hmcn1	7.40	5.99	-2.66
Gm4841	7.30	5.88	-2.66
Aloxe3	8.13	6.72	-2.66
Pknox2	7.43	6.02	-2.66
Hmcn1	7.39	5.98	-2.67
Kcnab1	7.65	6.24	-2.67
Hmcn1	7.88	6.47	-2.67
Mcm7	12.17	10.76	-2.67
Klf2	9.42	8.00	-2.67
Fbxo48	7.54	6.12	-2.67
Hist3h2a	12.78	11.36	-2.67
Cenpk Ppwd1	8.26	6.84	-2.67
Lhx2	8.69	7.27	-2.67
Tbl2	9.82	8.40	-2.68
Smc2	9.99	8.57	-2.68
Nrm	10.93	9.51	-2.68
Cuedc2 Fbxl15	12.37	10.95	-2.68
Uhrf1	9.68	8.26	-2.68
Tmem8	8.86	7.43	-2.69
H2-T22 H2-T9 H2-T10	11.45	10.02	-2.69
Tead2	9.14	7.71	-2.69
Gramd1b	8.77	7.34	-2.69
Ust	9.17	7.74	-2.69
Stmn2	7.18	5.75	-2.69
Snord8	9.36	7.93	-2.69
Col3a1	9.33	7.90	-2.70
2810417H13Rik	10.69	9.26	-2.70
Ddx3y	7.09	5.66	-2.70
9930013L23Rik	8.36	6.92	-2.70
	11.11	9.67	-2.70
Atad5	8.58	7.14	-2.70
Hmcn1	6.77	5.33	-2.71
Glipr2	10.57	9.13	-2.71
Gsdmd	9.32	7.88	-2.71
Fbxo5	9.20	7.76	-2.71
Klra2	7.05	5.61	-2.71
	9.72	8.28	-2.71
Kcnt2	6.92	5.47	-2.72
Hist1h1b	11.91	10.47	-2.72

Hmcn1	7.37	5.92	-2.72
Tcn2	12.74	11.30	-2.72
Thoc4	12.25	10.80	-2.73
Mmel1	8.09	6.64	-2.73
Ddit4l	8.27	6.82	-2.73
Sema6d	7.65	6.20	-2.73
Hmcn1	7.85	6.39	-2.74
2410022L05Rik	10.20	8.75	-2.74
Abcb1a	8.37	6.92	-2.74
Mef2c	8.19	6.74	-2.74
	11.03	9.58	-2.74
Gm6907	7.51	6.06	-2.74
Rrm2	12.22	10.76	-2.75
Six1	7.48	6.02	-2.75
Akap2	7.57	6.11	-2.75
Tcf23	8.64	7.17	-2.76
Zfyve21	10.33	8.87	-2.76
Lamb2	11.37	9.90	-2.76
Arhgef12 Sp140	8.76	7.29	-2.76
Slc9a9	7.74	6.28	-2.77
Gm12250	8.03	6.56	-2.77
Dtx4	10.08	8.61	-2.77
Lrdd	10.17	8.69	-2.77
Ttc7b	9.10	7.63	-2.77
Adamts10	9.15	7.67	-2.78
Snora16a	11.43	9.95	-2.78
Ear2	6.71	5.23	-2.79
Foxm1 4933413G19R			
ik	9.89	8.41	-2.79
A530040E14Rik	8.19	6.71	-2.79
Polq	8.39	6.90	-2.79
Jun	10.90	9.42	-2.80
Ccdc141	6.98	5.50	-2.80
Vaultrc5	11.88	10.39	-2.80
Dsn1	9.26	7.78	-2.80
A530040E14Rik	8.19	6.71	-2.80
BC030867	8.89	7.41	-2.80
Dut	9.69	8.21	-2.80
Eif2ak2	10.12	8.64	-2.80
lfrd1 Gm7008	9.85	8.36	-2.80
Brca1	8.89	7.40	-2.81
Gamt	8.88	7.39	-2.81
A530040E14Rik	8.13	6.63	-2.81
Hist1h4f	11.95	10.46	-2.81
Gm12260	10.93	9.43	-2.82
Plod3	11.30	9.81	-2.82
A530040E14Rik	8.13	6.63	-2.82
Cit	8.91	7.41	-2.82
Ppm1m	10.04	8.54	-2.82
Wdr76	9.05	7.56	-2.82
Stard6 Gm9795	6.63	5.13	-2.83
Maoa	10.46	8.96	-2.83
Cacng7	8.56	7.05	-2.83
Mdc1	9.93	8.43	-2.83
Tns1	10.27	8.77	-2.84

Syne2	9.04	7.54	-2.84
Usp49	8.79	7.29	-2.84
2810417H13Rik	10.01	8.50	-2.84
Top2a	10.76	9.25	-2.85
Crip2	13.22	11.71	-2.85
	7.57	6.06	-2.85
Zfp367	10.28	8.77	-2.85
Tnfaip6	7.30	5.79	-2.85
Pard3b	7.83	6.31	-2.85
Col6a2	9.37	7.85	-2.85
Tcf4	10.57	9.06	-2.86
Hemt1 Gml	7.76	6.25	-2.86
Neurl2 Ctsa	8.29	6.77	-2.87
Tubb6	12.41	10.89	-2.87
Esco2	8.96	7.44	-2.87
Mcm5	12.20	10.68	-2.87
Hsn2	9.78	8.25	-2.88
Fbxo21	9.47	7.95	-2.88
Cdkn3	8.79	7.26	-2.88
Mir15a	8.86	7.33	-2.89
Fam65a	10.30	8.77	-2.89
B3gnt9	9.43	7.90	-2.89
Fuca1	10.99	9.46	-2.89
Hcn2	8.62	7.08	-2.89
Cldn1	7.75	6.22	-2.89
Stard6 Gm9795	6.73	5.20	-2.89
Fkbp7	8.72	7.19	-2.89
Impact	9.80	8.27	-2.90
Plcx2	9.18	7.65	-2.90
E2f8	9.80	8.26	-2.90
Myg1	10.44	8.90	-2.90
Wrap53	10.13	8.60	-2.90
Myl7	8.04	6.50	-2.90
Hmcn1	6.51	4.97	-2.90
Nr1h4	7.60	6.06	-2.91
Gml	7.90	6.36	-2.91
Clspn	8.50	6.96	-2.91
Crlf1	9.40	7.86	-2.92
Lhfpl2	8.57	7.02	-2.92
Rassf2	8.30	6.75	-2.92
Plekhf1	9.88	8.34	-2.92
Psm8	9.95	8.40	-2.92
Serp1b6c	7.75	6.20	-2.92
Rtel1	10.18	8.63	-2.93
Tsku	9.38	7.83	-2.93
Mmp23	8.56	7.01	-2.94
Birc2	9.40	7.85	-2.94
1700081L11Rik	8.51	6.96	-2.94
Hmcn1	6.73	5.17	-2.94
Rbm3	8.35	6.80	-2.94
Fam54a	8.92	7.36	-2.94
Brip1	8.80	7.24	-2.94
Prrg1	8.44	6.88	-2.95
Ifi2711	12.56	11.01	-2.95
Tap1	11.80	10.24	-2.95

4932438A13Rik	10.01	8.45	-2.95
	8.20	6.64	-2.95
	9.99	8.43	-2.95
Hmcn1	7.75	6.18	-2.96
	10.44	8.87	-2.96
Col4a2	9.15	7.59	-2.96
Frzb	7.51	5.94	-2.96
Wdhd1	9.50	7.94	-2.96
Gstm3	8.28	6.71	-2.96
Gbp5	7.09	5.53	-2.96
Eya1	7.88	6.31	-2.96
Tmem62	9.03	7.46	-2.97
Troap	9.72	8.16	-2.97
Hmcn1	6.35	4.78	-2.97
Kif15	8.98	7.41	-2.97
B4galt4	8.72	7.15	-2.97
Slc45a3	9.17	7.59	-2.98
Lrg1	8.10	6.53	-2.98
2900052L18Rik	10.01	8.43	-2.98
G530011O06Rik	7.99	6.41	-2.98
Siva1	10.78	9.20	-2.98
Dffb	8.73	7.15	-2.99
Rpa2	10.16	8.57	-3.00
Adm	8.33	6.75	-3.00
Gm5665	7.02	5.44	-3.00
Chst12	11.50	9.91	-3.01
Nubp1 Fam18a	8.05	6.46	-3.01
Ranbp17	8.23	6.64	-3.01
Pmm1	11.71	10.11	-3.02
Hist1h2bm	12.75	11.15	-3.02
Kank2	10.03	8.43	-3.02
Ninj1	11.77	10.17	-3.02
Anks1b	7.96	6.36	-3.03
Man2b1	11.56	9.96	-3.04
Car6	7.80	6.20	-3.04
Steap2	11.35	9.74	-3.04
Chrdl1	7.97	6.36	-3.04
Trib2	8.92	7.32	-3.04
Rnu12	10.87	9.26	-3.05
Stx2	10.24	8.63	-3.05
Papss2	8.68	7.06	-3.05
Snca	8.11	6.50	-3.05
Gabra1	7.83	6.21	-3.05
Npep1	11.30	9.69	-3.05
Mocs1	10.99	9.38	-3.06
Gulp1	6.50	4.89	-3.06
Tnfsf12-Tnfsf13	9.71	8.10	-3.06
Cchr1	10.11	8.50	-3.06
Ahnak2	12.00	10.38	-3.06
Ces5	13.06	11.44	-3.06
Hmcn1	8.00	6.38	-3.07
Gm10115	7.40	5.78	-3.07
Hoxd9	8.30	6.68	-3.07
Slc23a2	10.50	8.88	-3.07
Abca8b	7.26	5.64	-3.07

Rbm38	10.50	8.88	-3.08
C1qtnf6	8.15	6.52	-3.08
Gm10524	10.67	9.05	-3.08
Nid2 2700060E02Rik	8.46	6.84	-3.08
Rev3l	8.84	7.21	-3.08
Ptgs1	11.19	9.57	-3.09
Ncapg	9.52	7.90	-3.09
Arhgdib	11.27	9.65	-3.09
Fam13a	7.59	5.97	-3.09
Vasn	8.10	6.47	-3.09
Mtap1a	7.95	6.32	-3.10
Calcr1	7.24	5.61	-3.10
Aff2	10.87	9.24	-3.10
Palm2 Akap2	7.89	6.26	-3.10
Kifc1 LOC100044746	9.92	8.28	-3.11
Mybl2	10.02	8.38	-3.11
Ltb4r2	9.25	7.61	-3.11
Chaf1a Ubxn6	9.84	8.20	-3.12
2410089E03Rik Gm5			
906	9.22	7.57	-3.12
Eid3	7.30	5.65	-3.13
Nova1	8.17	6.52	-3.14
Ckap2	10.50	8.85	-3.14
Timd2	7.28	5.63	-3.14
Syne2	9.40	7.75	-3.14
Sntg1	7.65	6.00	-3.14
Btbd19	11.29	9.64	-3.14
Man2a1	11.04	9.39	-3.14
Boc	9.01	7.35	-3.15
Bnc2	9.17	7.52	-3.15
Gkap1	9.34	7.68	-3.16
D330045A20Rik	7.16	5.50	-3.16
Cyp2d22	8.77	7.11	-3.16
Tcea3	8.84	7.18	-3.16
	9.31	7.65	-3.16
Tbx18	7.82	6.16	-3.17
Lgals3bp	13.56	11.90	-3.17
Abi3bp	7.43	5.77	-3.17
Lrpap1	11.24	9.58	-3.17
Nynrin	8.31	6.64	-3.18
1190007F08Rik	9.41	7.74	-3.18
Lhx9	8.38	6.70	-3.19
Chrd Thpo	8.75	7.08	-3.19
Sema3e	8.45	6.77	-3.20
Bax	11.59	9.91	-3.20
Mmp28 1700020L24R			
ik	9.37	7.69	-3.20
Rnu3a	10.82	9.14	-3.21
Gas2l3	9.70	8.02	-3.21
	9.67	7.99	-3.21
Zfp9	7.94	6.25	-3.21
Ank2	8.95	7.26	-3.22
Gstm2	10.66	8.97	-3.22

Dpp7	12.68	10.99	-3.22
Clcn6	9.39	7.70	-3.22
Ifi205	12.30	10.61	-3.23
Nradd	9.72	8.03	-3.23
Acsf2	8.00	6.31	-3.24
Phyh	7.72	6.02	-3.25
Zhx3	9.84	8.14	-3.25
E030037K03Rik	7.45	5.75	-3.25
BC049807	10.94	9.24	-3.25
Siva1	10.78	9.08	-3.26
Acy3	10.33	8.63	-3.26
Grtp1	9.46	7.75	-3.26
AU021092	7.93	6.22	-3.26
Slurp1	8.89	7.18	-3.26
Nfkbil2	8.96	7.25	-3.27
Emilin1	8.77	7.06	-3.27
Hmcn1	7.42	5.71	-3.27
Syne1	8.42	6.71	-3.27
Usp18	12.48	10.76	-3.29
Cntln	8.09	6.37	-3.29
Nmral1	8.80	7.08	-3.29
2610036L11Rik	8.50	6.78	-3.30
Syne2	9.39	7.67	-3.30
8430427H17Rik	8.96	7.23	-3.31
Xdh	11.98	10.26	-3.31
C3ar1	7.89	6.16	-3.31
Slfn8	7.89	6.16	-3.31
Mt2	13.97	12.24	-3.32
Snai1	9.79	8.06	-3.32
H6pd	11.41	9.68	-3.32
Nmnat2	9.18	7.45	-3.33
Snord118	10.99	9.26	-3.33
Mum111	7.70	5.97	-3.33
Snord118	10.99	9.25	-3.34
Mlf1	8.05	6.31	-3.34
Serpine1	12.05	10.30	-3.36
Cfb	8.56	6.81	-3.36
Gab3	8.05	6.30	-3.36
Hist1h2bb	12.80	11.05	-3.36
Cdh11	7.87	6.12	-3.36
Abhd1	9.57	7.81	-3.38
Hunk	9.20	7.45	-3.38
Glis3	9.19	7.44	-3.38
Tgm2	9.33	7.57	-3.39
Fos	9.16	7.40	-3.39
Abcc3	8.68	6.92	-3.39
ATP6 Gm10925	9.24	7.48	-3.40
6330503K22Rik	9.38	7.61	-3.40
Nbl1	9.02	7.25	-3.40
Ccna2	11.53	9.76	-3.41
Pde3b	7.37	5.60	-3.42
Cdr2l	9.43	7.66	-3.42
Cacna2d1	7.75	5.98	-3.43
Ecscr	8.98	7.20	-3.43
Syce2	9.27	7.49	-3.43

Sp110 C130026 21Ri			
k LOC100041885	9.91	8.13	-3.43
Ptpv	8.60	6.82	-3.44
Kctd17	9.82	8.04	-3.44
Tmeff2	8.52	6.74	-3.44
Dapk1	10.79	9.01	-3.45
Syne1	8.41	6.62	-3.45
Tbc1d24	9.43	7.64	-3.46
	11.03	9.24	-3.46
Ccdc109b	9.09	7.30	-3.46
E330016A19Rik	7.83	6.04	-3.46
Igsf11	8.90	7.11	-3.46
Man1c1	8.67	6.87	-3.46
Rarres1	7.87	6.07	-3.46
Ehd3	8.89	7.08	-3.49
Ear10 Ear2 Ear12 Ear			
3	7.67	5.86	-3.49
Acsf2	8.12	6.31	-3.49
Dlg4	9.24	7.44	-3.49
Taf1d	10.89	9.08	-3.50
	10.95	9.14	-3.50
Hmcn1	7.68	5.88	-3.50
Pbx4	9.75	7.94	-3.50
Asf1b	11.96	10.15	-3.51
BC025446	8.04	6.23	-3.51
Isg15	8.10	6.28	-3.51
Meis2	10.49	8.67	-3.51
Gli3	9.88	8.07	-3.52
Map4k2	10.95	9.14	-3.52
Hmcn1	7.33	5.51	-3.52
Rab3il1	9.03	7.21	-3.53
Mapk8ip1	9.40	7.59	-3.53
Ano3 Muc15	8.18	6.36	-3.53
Ifi203	10.23	8.41	-3.53
Trdn	8.74	6.92	-3.53
Cdk14	8.06	6.24	-3.54
Tle4	8.05	6.23	-3.55
Kntc1	9.02	7.19	-3.55
Bche	7.43	5.60	-3.55
Abcg2	8.05	6.22	-3.56
Acot2	11.54	9.71	-3.56
Pcolce2	9.20	7.37	-3.56
Arhgap11a	10.01	8.18	-3.56
Spc24	9.25	7.41	-3.57
Hist1h4c	11.41	9.58	-3.57
Sepn1	10.51	8.67	-3.57
Ccnf	10.67	8.83	-3.58
Pla2g2e	9.28	7.45	-3.58
Hoxb2	8.94	7.10	-3.58
Ddit3 Mars	9.75	7.90	-3.59
Stat2	11.02	9.18	-3.60
Rbp1	8.74	6.89	-3.60
Nfix	12.05	10.20	-3.61
Arhgap23	10.57	8.72	-3.61
Fam129a	8.35	6.49	-3.62

Zfp287	7.82	5.95	-3.65
Cxx1c	8.41	6.54	-3.65
Galk1 Itgb4	9.08	7.21	-3.66
Lrp1	11.92	10.05	-3.66
	8.99	7.11	-3.68
H2-T10 H2-T9	9.59	7.71	-3.68
Tesc	9.91	8.03	-3.68
Casc5	9.62	7.74	-3.68
Tdo2	7.23	5.35	-3.69
Zcchc11	9.86	7.98	-3.70
Ms4a4b	7.03	5.14	-3.70
Nynrin	8.29	6.40	-3.71
Ptprq	8.20	6.31	-3.72
Sh3tc1	9.41	7.52	-3.72
	7.13	5.23	-3.72
Gaa	12.19	10.29	-3.73
Cd248	9.41	7.51	-3.73
Eno3	10.77	8.87	-3.73
Gab2	9.72	7.82	-3.73
Sardh	8.81	6.91	-3.74
Trim9	8.44	6.54	-3.75
Tk1	11.15	9.24	-3.75
Ifih1	9.93	8.02	-3.76
Pla2g15	9.72	7.81	-3.76
Akr1c14	7.36	5.45	-3.77
Tk1	11.25	9.33	-3.77
Eml1	9.01	7.09	-3.78
Ttc28	8.56	6.64	-3.78
Tspan4	12.61	10.69	-3.79
Icam2	8.99	7.06	-3.80
Heph11	7.86	5.93	-3.80
	8.21	6.28	-3.80
Hmcn1	8.03	6.10	-3.81
Procr	10.34	8.41	-3.81
Grik2	7.64	5.71	-3.81
Abcc5	10.53	8.60	-3.82
Nanos1	9.69	7.75	-3.84
Fam46a	7.70	5.76	-3.84
Mid1 LOC677593	10.50	8.56	-3.84
Ctsf	8.53	6.58	-3.87
Wdr67	10.12	8.17	-3.87
Upk1b	11.83	9.87	-3.87
	9.34	7.39	-3.88
Gchfr	10.19	8.23	-3.89
Cebpd	9.07	7.11	-3.89
Ear10 Ear2 Ear12 Ear			
3	7.78	5.82	-3.89
E2f7	10.61	8.65	-3.89
Fam180a	8.79	6.83	-3.89
Dcbld2	11.63	9.66	-3.90
Fam105a	8.05	6.09	-3.91
Zfp334	8.83	6.87	-3.91
Hmcn1	7.42	5.45	-3.92
Gpr124	9.15	7.17	-3.93
Orm3	7.59	5.61	-3.94

Hmgn2	11.63	9.65	-3.94
Fmnl2	10.03	8.05	-3.94
Gm10825	8.44	6.46	-3.95
Flt4	8.49	6.50	-3.95
	7.47	5.49	-3.95
Hmgn2	11.46	9.48	-3.97
Bace1	9.34	7.35	-3.97
Upk3b	9.04	7.05	-3.97
Hmcn1	7.91	5.92	-3.98
Gm16494	10.01	8.02	-3.98
Diap3	9.11	7.12	-3.98
Trdn	7.92	5.93	-3.98
Hmgcl	10.64	8.64	-3.99
Uty	7.44	5.44	-4.00
Rad51	9.93	7.93	-4.01
Reck	8.83	6.82	-4.02
Aldh1l2	8.55	6.54	-4.02
Gmn	10.81	8.80	-4.02
Neil3	9.21	7.20	-4.02
Cenpm	11.96	9.95	-4.03
Hmgn2	11.55	9.53	-4.03
Rasgrf2	7.85	5.83	-4.04
Pde8a	8.35	6.34	-4.04
Hmgn2	11.48	9.46	-4.06
Id1	11.45	9.43	-4.06
Clic4	11.55	9.52	-4.06
Snora34	11.84	9.81	-4.07
Sparc	13.42	11.39	-4.09
Odz3	8.05	6.01	-4.10
Pcdh9	8.93	6.90	-4.10
Smarca1	7.82	5.79	-4.10
Igfbp6	8.77	6.73	-4.11
Eif2s3y	7.04	5.00	-4.11
Ctsz	12.92	10.88	-4.12
Gata6	11.18	9.13	-4.12
Ncoa4 Gm6768	12.06	10.01	-4.13
Ptpla	7.79	5.75	-4.13
Ccl2	11.46	9.41	-4.14
Plxdc1	8.70	6.65	-4.14
Cda	11.84	9.79	-4.14
Gbp4	8.79	6.73	-4.15
Fli1	8.60	6.54	-4.15
Apc2	9.15	7.09	-4.16
Fam149a	8.81	6.75	-4.17
Kdelr3	10.33	8.27	-4.18
Mpp6	10.77	8.70	-4.18
Ccne2 Ints8	9.81	7.75	-4.18
Dthd1	8.22	6.15	-4.20
Emr4	7.70	5.63	-4.20
Scarna17	11.88	9.80	-4.22
Scarna17	11.88	9.80	-4.22
Plxna2	10.25	8.16	-4.25
Pcdh10	8.44	6.35	-4.26
Fzd4	9.03	6.93	-4.29
Tspan8	8.01	5.91	-4.29

Dhfr Msh3	10.44	8.33	-4.33
Iffo1	8.63	6.51	-4.33
Nsg1	9.08	6.96	-4.33
Gbp9	8.70	6.59	-4.33
Plod1	10.64	8.52	-4.35
Cd302	7.07	4.95	-4.35
Myom2	8.75	6.63	-4.35
Jmjd8 Stub1	9.63	7.51	-4.36
Steap1	9.66	7.54	-4.36
Ncoa4 Gm6768	12.47	10.35	-4.36
	11.29	9.17	-4.37
Zfp57	10.36	8.24	-4.37
Rock2	10.87	8.74	-4.38
Irf9	10.81	8.68	-4.39
Pdk4	8.05	5.91	-4.40
Shcbp1	8.50	6.36	-4.40
Flt1	9.53	7.40	-4.40
Zbtb20	10.27	8.13	-4.40
Fbln2	12.47	10.33	-4.40
BC048355	11.21	9.07	-4.41
C4b C4a	8.82	6.68	-4.41
Gm12185	7.37	5.22	-4.43
	8.57	6.42	-4.44
Arnt2	9.39	7.23	-4.46
Hspg2	11.24	9.08	-4.47
Eya4	9.82	7.66	-4.47
Efemp2	10.24	8.08	-4.47
Trim47	9.62	7.46	-4.48
Hsf4	9.50	7.33	-4.50
Pole	10.97	8.80	-4.50
Rhoj	9.08	6.91	-4.50
Atad2	10.75	8.58	-4.50
Csn3	7.35	5.18	-4.51
Hmcn1	6.98	4.81	-4.51
Scn7a	7.64	5.47	-4.51
6330406115Rik	7.92	5.75	-4.52
Tubb3 Mc1r	9.56	7.39	-4.52
Pcdh9	9.11	6.94	-4.52
Ncapg2	10.01	7.83	-4.53
Hhip1	9.01	6.83	-4.53
C1ra	8.57	6.39	-4.54
Tppp3	9.49	7.30	-4.54
C1qtnf1	9.46	7.28	-4.55
Mki67	11.25	9.06	-4.56
Cxx1a Cxx1b Cxx1c	10.32	8.13	-4.56
Lonrf3	8.56	6.37	-4.56
Hoxd8	8.16	5.97	-4.56
Tst	9.74	7.55	-4.57
Hmcn1	7.84	5.64	-4.57
E430029J22Rik	7.51	5.31	-4.58
Lcat	9.54	7.35	-4.58
BC046404	10.55	8.35	-4.59
Npr2	8.55	6.35	-4.59
Cyyr1	8.62	6.42	-4.59
1190002N15Rik	8.86	6.67	-4.59

Evc	9.68	7.48	-4.59
Col1a1	10.17	7.97	-4.62
Epb4.1l3	8.22	6.01	-4.64
Agpat4	9.30	7.08	-4.65
Hrct1	9.60	7.38	-4.67
Bgn	9.17	6.95	-4.67
Ifi35	11.61	9.39	-4.68
Dlx2	9.53	7.29	-4.71
Gm4955	7.98	5.74	-4.71
Gpr146	8.46	6.22	-4.72
Plekhh2	8.64	6.40	-4.73
Irgm2 Igtg	10.46	8.21	-4.75
Syde1	10.62	8.37	-4.75
Mir568	7.97	5.72	-4.75
Ugt1a9 Ugt1a1 Ugt1a5 Ugt1a10 Ugt1a2 Ugt1a6a Ugt1a7c Ugt1a6b	9.73	7.47	-4.78
Fermt2	8.85	6.59	-4.78
Adamts2	9.53	7.27	-4.78
Hexa	12.71	10.45	-4.81
Cxx1a Cxx1b Cxx1c	10.36	8.09	-4.82
Ndrg2	9.79	7.52	-4.82
Msr3	9.92	7.65	-4.84
Parp10 Plec	10.45	8.18	-4.85
2210011C24Rik	10.49	8.21	-4.85
H2-Q8	11.84	9.56	-4.88
Rasl11a	9.72	7.44	-4.88
Mxra7	9.55	7.26	-4.89
Map3k6	9.49	7.20	-4.89
Esyt1	11.39	9.09	-4.90
Mmp27	8.19	5.89	-4.93
Sipa1	10.47	8.16	-4.94
Hic1	9.55	7.25	-4.94
Fxyd5	12.40	10.10	-4.95
Enpp5	10.73	8.42	-4.95
Cdkn2c	10.22	7.91	-4.96
Pla1a	9.67	7.36	-4.97
Fibin	8.09	5.77	-4.98
Paqr4 Pkmyt1	10.72	8.41	-4.98
Tmem88 Lsmd1	9.53	7.19	-5.04
Ctca2 Ctca1	8.58	6.24	-5.05
Pex5l	9.18	6.84	-5.06
Selm	10.36	8.02	-5.06
Oas3	11.46	9.12	-5.07
Fam46a	9.79	7.45	-5.07
C3	12.58	10.23	-5.07
Pear1	9.35	7.00	-5.10
Sema3d	8.17	5.82	-5.10
Pice1	8.45	6.09	-5.12
A830019P07Rik	8.87	6.51	-5.13
H2-gs10 H2-Q5	11.91	9.55	-5.13
Akap2	8.92	6.56	-5.14
Tbx1	9.96	7.60	-5.15
Ogn	7.83	5.45	-5.19

Snora44	11.17	8.79	-5.20
Add3	11.31	8.93	-5.22
Tfpi	9.19	6.80	-5.23
Mxd3	10.09	7.70	-5.25
Bst2	12.78	10.39	-5.25
Tcf19	12.90	10.50	-5.28
Nod1	9.27	6.86	-5.28
Lgals9	12.96	10.56	-5.30
BC006779	10.14	7.74	-5.30
I830012O16Rik	7.94	5.53	-5.31
Ltbp3	10.64	8.23	-5.31
Apbb1ip	8.32	5.91	-5.31
Wt1	9.66	7.25	-5.33
Mras	10.31	7.87	-5.42
Adam23 LOC1000460			
35	8.51	6.07	-5.43
Ddah2	9.62	7.17	-5.46
Cdhr1	8.74	6.29	-5.46
Mrc2	9.13	6.68	-5.47
St3gal3	9.57	7.11	-5.47
Cul7	9.34	6.89	-5.48
Ddr2	9.53	7.08	-5.48
Adam22	8.33	5.87	-5.49
Slc41a2	9.10	6.64	-5.50
Gpr165	9.00	6.54	-5.51
Npy1r	8.42	5.96	-5.52
Heph	8.52	6.05	-5.54
Twist2	10.45	7.98	-5.54
Gm10785	10.37	7.89	-5.57
Lrrcc1	9.06	6.58	-5.59
Mapk12	11.08	8.59	-5.62
Lpar1	9.60	7.11	-5.64
Zbtb20	10.20	7.70	-5.66
Gbp2	10.18	7.68	-5.68
Slc9a3r2	10.04	7.53	-5.68
4930486L24Rik	8.68	6.17	-5.69
Fgf18	9.71	7.20	-5.69
Camk1	9.26	6.75	-5.69
Slc16a3	9.91	7.38	-5.77
Ube2l6	11.71	9.18	-5.79
Gca	8.17	5.63	-5.80
A430107O13Rik	8.78	6.25	-5.80
Gxylt2	9.13	6.58	-5.83
Myh10	9.11	6.56	-5.83
Slc12a4	11.09	8.54	-5.84
Ear1 Ear10 Ear2 Ear1			
2 Ear3	8.28	5.73	-5.86
Gabre	10.42	7.87	-5.86
B930041F14Rik	10.79	8.24	-5.87
Fam132a	10.04	7.49	-5.87
Ttyh2	10.38	7.82	-5.88
Clip3	9.64	7.08	-5.88
Tnfrsf18	11.88	9.31	-5.90
Egr1	10.37	7.81	-5.92
St6galnac4	9.13	6.56	-5.93

Lass4	10.39	7.82	-5.94
Mx2	8.26	5.69	-5.95
Itga5	10.63	8.06	-5.95
Zeb2	9.01	6.44	-5.96
Uap1l1	11.43	8.86	-5.97
Ppap2a	11.57	9.00	-5.97
	11.38	8.80	-5.97
Cdc42ep2	9.76	7.18	-5.99
Nr1h3	9.77	7.19	-5.99
Gstk1	8.65	6.06	-6.02
Slfn9	10.38	7.78	-6.03
Foxf1a	8.84	6.25	-6.03
Npy	9.56	6.96	-6.04
Ear11	8.01	5.42	-6.05
Elmo1	8.68	6.08	-6.05
Col4a1	10.10	7.50	-6.09
Lipn	8.04	5.44	-6.10
Rarb	8.85	6.24	-6.10
Arhgap31	9.73	7.12	-6.10
Gm5077	8.91	6.30	-6.13
Rbpms	10.28	7.66	-6.13
Tnxb	9.78	7.16	-6.13
Trdn	7.50	4.88	-6.14
Zbtb16	11.70	9.08	-6.15
Scarf2	10.38	7.76	-6.15
Ar	8.34	5.71	-6.16
Gucy1a2	8.91	6.29	-6.17
Dlx1	9.71	7.09	-6.17
Sirpa	9.93	7.30	-6.20
	8.64	6.00	-6.23
Lama4	8.96	6.32	-6.25
Kif18b	11.87	9.23	-6.25
Ttc28	9.78	7.14	-6.25
Gm98	10.06	7.41	-6.25
	8.38	5.73	-6.26
Atf3	12.02	9.38	-6.26
Wipf1	8.96	6.31	-6.26
St6galnac6	9.70	7.05	-6.28
Emilin2	9.70	7.04	-6.30
Dzip1 Cldn10a	8.48	5.81	-6.33
Rgl1	9.40	6.73	-6.36
Npr1	9.33	6.65	-6.38
Mertk	8.89	6.22	-6.39
Id3	10.21	7.53	-6.39
Aldh1a7	9.59	6.91	-6.41
Abca1	9.29	6.60	-6.42
Plscr4	9.45	6.77	-6.43
Decr1	8.55	5.87	-6.43
Gypc	9.44	6.75	-6.46
Peg10	9.01	6.32	-6.46
Reep2	10.40	7.70	-6.48
Eno2	9.51	6.82	-6.49
Nxph1	9.02	6.32	-6.50
B4galt6	8.75	6.04	-6.52
Ccl7	10.62	7.91	-6.52

Fndc1 LOC10003909			
1	9.20	6.49	-6.54
Osmr	10.89	8.18	-6.54
	11.12	8.41	-6.55
Gm8979 Gm8989 Gvi			
n1	7.61	4.89	-6.60
Rnf213	11.53	8.81	-6.61
Rgs2	8.61	5.88	-6.62
Sdpr	8.97	6.24	-6.64
Col6a1	10.71	7.97	-6.67
Hmcn1	8.04	5.30	-6.68
Shisa4	10.54	7.80	-6.69
Loxl2	9.28	6.53	-6.73
Fmnl3	9.36	6.60	-6.79
Gas7	10.15	7.39	-6.81
Loxl3 Htra2	10.31	7.54	-6.81
Itgb3	9.82	7.05	-6.82
Rsad2	10.33	7.56	-6.86
Gucy1a3	8.61	5.83	-6.87
Bglap2 Bglap-rs1	10.25	7.47	-6.90
Gm4951	8.61	5.83	-6.90
Vat1l	9.00	6.21	-6.91
Mras	9.94	7.15	-6.93
Mme	8.55	5.76	-6.93
	9.62	6.82	-6.94
Scrn1	9.63	6.83	-6.94
AI607873	12.92	10.11	-7.02
Kik1b24	9.04	6.22	-7.05
4930503L19Rik	8.60	5.78	-7.07
Fcgrt	10.25	7.42	-7.08
Rnd1	9.35	6.51	-7.12
Plac8	8.60	5.77	-7.13
Ch25h	9.34	6.50	-7.18
Ccl5	10.65	7.80	-7.21
Trf	9.48	6.62	-7.28
Serping1	8.92	6.06	-7.29
Lims2 Gpr17	10.60	7.74	-7.30
Hsd11b1	9.32	6.44	-7.34
	11.16	8.28	-7.36
Lifr	8.80	5.90	-7.45
Sp110 LOC10004188			
5	10.03	7.13	-7.51
Rcn3	9.80	6.88	-7.55
Armxc3	9.05	6.13	-7.57
	11.88	8.96	-7.57
	12.02	9.10	-7.58
Arrb1	10.07	7.15	-7.58
Slfn3	9.29	6.36	-7.60
Snx32	9.12	6.19	-7.62
Plac9	10.08	7.15	-7.65
Tnfrsf1b	10.09	7.15	-7.68
	12.26	9.32	-7.69
Nrn1	8.93	5.98	-7.69
Fosl1 Ccdc85b	11.52	8.57	-7.70
	11.75	8.80	-7.73

Ptplad2	9.04	6.09	-7.73
Klhl4	8.90	5.95	-7.74
	11.12	8.16	-7.76
Prl8a2	8.89	5.93	-7.77
Irgm1	11.57	8.61	-7.78
Pltp Ctsa	12.94	9.98	-7.80
F2r	9.75	6.78	-7.85
Rnf213	12.08	9.10	-7.87
2610528A11Rik	10.96	7.98	-7.89
	10.61	7.63	-7.91
Snord53	11.44	8.45	-7.94
Phf11	8.36	5.37	-7.95
Gstm1	11.63	8.64	-7.95
Plac9	10.09	7.09	-7.98
Plac9	10.09	7.09	-7.99
Disp1	9.61	6.62	-8.00
Amy1	8.68	5.66	-8.12
Klhl6	9.07	6.05	-8.16
Figf	10.88	7.84	-8.20
Pon3	8.99	5.95	-8.22
Slc35d2	8.99	5.95	-8.24
Mmp19	9.72	6.67	-8.27
Crct1	11.89	8.84	-8.28
Sorbs3	10.51	7.46	-8.33
Ppp1r3a	8.75	5.69	-8.34
Sp110	9.61	6.55	-8.35
	11.40	8.33	-8.40
Armcx3	8.71	5.64	-8.43
Pcdh11x	9.07	5.99	-8.45
Sp110	9.63	6.55	-8.45
H2-Q6 LOC68395	12.76	9.67	-8.49
Hmcn1	8.83	5.75	-8.49
Fn1	13.19	10.10	-8.50
Pkhd11l	8.84	5.74	-8.55
Fetub	10.54	7.44	-8.55
Dpysl3	9.96	6.86	-8.58
Pxmp4	9.86	6.76	-8.60
Clic5	9.77	6.66	-8.62
Renbp	11.89	8.78	-8.64
Enpp4	9.48	6.36	-8.67
Cxcl13	9.01	5.89	-8.68
D14Erttd668e	9.89	6.77	-8.69
Prrx1	9.56	6.44	-8.71
Parvb	9.70	6.58	-8.72
Heg1	10.30	7.18	-8.73
Irak3	9.79	6.66	-8.75
Idh2	10.52	7.39	-8.76
Zeb1	9.74	6.61	-8.77
Ddx60	8.92	5.78	-8.78
Herc5	9.70	6.56	-8.81
Ifit3	12.21	9.07	-8.84
9430020K01Rik	12.24	9.09	-8.87
Akap12	10.17	7.02	-8.90
Atoh8	10.42	7.27	-8.91
Gbp6	10.53	7.36	-8.99

Zdhhc15	9.20	6.03	-9.01
Clca1	9.07	5.88	-9.13
Rspo3	9.87	6.68	-9.13
Plcb4	9.77	6.58	-9.14
Raet1d Raet1e Raet1			
b	9.82	6.62	-9.18
Mmp2	10.82	7.61	-9.26
Fbn1 Gm9913	9.72	6.51	-9.27
Ildr2	9.91	6.69	-9.27
ligp1	8.69	5.47	-9.30
	11.56	8.34	-9.31
Cbr3	9.26	6.03	-9.33
Ttc28	9.75	6.52	-9.35
Mpa2l Gbp10 EG6346			
50 Gbp8	9.46	6.23	-9.38
Ifit1	10.87	7.63	-9.41
Fabp4	9.70	6.47	-9.42
Slc10a6	9.84	6.59	-9.46
Olfml3	10.19	6.94	-9.48
Gpr133	9.97	6.72	-9.56
Scn3b	9.75	6.50	-9.57
Spon1	10.34	7.08	-9.57
Aldh2	10.13	6.87	-9.61
Grb10	9.75	6.48	-9.63
Gm8995	9.29	6.02	-9.64
Rin3	11.00	7.73	-9.66
Prep	10.07	6.79	-9.67
Copz2	10.11	6.83	-9.72
Zcchc24	9.64	6.35	-9.75
S100a4	11.39	8.11	-9.76
P2rx7	10.53	7.24	-9.82
Apcdd1	10.58	7.28	-9.83
Capn6	9.73	6.43	-9.84
Al451617	8.81	5.49	-9.93
	11.84	8.52	-9.97
BC023105	8.01	4.67	-10.18
P4ha3	9.95	6.60	-10.19
Adamts5	9.56	6.20	-10.27
Nt5dc2 Stab1	12.79	9.41	-10.43
Xaf1	10.26	6.87	-10.49
Fam171b	9.48	6.08	-10.53
Snta1	10.61	7.20	-10.63
Colec12	10.34	6.92	-10.67
Pdgrfb	9.95	6.52	-10.74
Crip1	10.74	7.30	-10.80
C1rb C1ra	10.85	7.41	-10.83
Lix1l	10.37	6.92	-10.93
Cmpk2	10.23	6.78	-10.95
Thbd	10.07	6.61	-10.96
Dhrs9	10.73	7.27	-10.97
Aldh1a1	13.20	9.72	-11.13
B4galt5	11.39	7.90	-11.17
Zbp1	10.88	7.38	-11.36
St3gal5	10.11	6.59	-11.47
S100a1	12.28	8.76	-11.48

Gbp3	10.12	6.56	-11.82
Osr1	10.62	7.05	-11.87
Finc	10.39	6.80	-12.08
Creb3l1	10.24	6.64	-12.09
Slc29a1	11.10	7.49	-12.17
Prr5l	9.21	5.60	-12.21
Nxph1	10.19	6.57	-12.26
Ccdc80	9.60	5.99	-12.26
Cfh	9.02	5.41	-12.26
Ctla2b	9.88	6.26	-12.30
Tenc1	10.99	7.37	-12.30
Oas1b	10.80	7.18	-12.30
Serpinh1	10.77	7.11	-12.64
Slc7a2	10.00	6.34	-12.65
Timp1	12.27	8.60	-12.73
Dock10	9.65	5.96	-12.91
Gpm6a	9.49	5.80	-12.92
Armcx3	9.53	5.83	-13.01
Glp1r	10.09	6.39	-13.08
Tgfbr3	10.59	6.87	-13.14
Cd109	11.92	8.20	-13.16
Oas1a	10.75	7.03	-13.17
Ms4a4c	8.95	5.23	-13.20
Fam5c	9.74	6.02	-13.22
Layn	10.16	6.43	-13.28
C1s	9.68	5.94	-13.38
Scgb1a1	9.70	5.95	-13.52
Oasl1	11.01	7.25	-13.57
C2	10.02	6.25	-13.63
Gm8979 Gvin1	9.01	5.24	-13.67
Adh1	10.11	6.33	-13.78
Disp1	11.11	7.31	-13.92

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111J21Rik1 Gm5431	11.06	7.25	-14.07
Dzip1	9.96	6.14	-14.08
Pros1	10.61	6.79	-14.11
Hpse	10.22	6.39	-14.21

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111J21Rik1 Gm5431	11.07	7.23	-14.36
Dhx58	11.07	7.19	-14.77
Ly6f	11.20	7.31	-14.77
Fmo3	10.43	6.54	-14.91
Ear1	8.99	5.07	-15.09
Fgfr1	11.20	7.27	-15.18
Rtp4	11.04	7.10	-15.45
Des	10.58	6.63	-15.46
Hsd17b11	9.97	6.00	-15.64
Srgn	10.13	6.15	-15.76
Irf7	11.71	7.72	-15.93
Pgcp	10.28	6.26	-16.28
Kdr	10.13	6.10	-16.31
Pcolce	12.95	8.92	-16.36
Sp100	10.72	6.68	-16.48

Fhl1	11.05	7.00	-16.52
Cxcl10	11.56	7.49	-16.77
Nnmt	11.11	7.04	-16.78
Nkain4	11.45	7.36	-16.99
Gpr116	10.12	6.02	-17.07
Cpt1c	10.97	6.87	-17.13
Vcam1	10.61	6.51	-17.15
Trim30	11.23	7.12	-17.20
Prrg3	10.51	6.39	-17.38
Klra17	9.31	5.18	-17.44
Tmtc1	10.70	6.54	-17.82
Apol9b Apol9a	11.59	7.42	-17.92
Tmem119	11.23	7.01	-18.55
Prune2	11.11	6.87	-18.87
Agtrap	11.18	6.93	-19.00
Csprs Gm7609 Gm75			
82	12.13	7.85	-19.38
Gvin1	10.97	6.65	-19.97
Cpz	11.35	6.99	-20.48
Rnf128	11.16	6.81	-20.49
Cyba	11.96	7.57	-20.97
Csprs Gm7609 Gm75			
82	11.20	6.79	-21.21
Prkcdbp	12.45	8.02	-21.51
Tmem173	11.08	6.66	-21.53
Tbx20	10.15	5.71	-21.77
Saa3	10.88	6.43	-21.83
Heg1	11.29	6.83	-21.94
Adcyap1r1	11.21	6.75	-21.99
Klhl22	11.05	6.59	-22.05
Apol9a Apol9b	11.93	7.44	-22.33
Bscl2	12.44	7.95	-22.47
Fstl1	10.73	6.23	-22.52
Csprs Gm7609 Gm75			
82	11.32	6.82	-22.65
Prune2	11.20	6.68	-22.91
Gria3	9.89	5.35	-23.29
Serpina3m	11.41	6.87	-23.37
Gria4	10.41	5.85	-23.53
Tgtp1 Tgtp2 Gm1218			
5	10.89	6.30	-24.01
Trem2	12.08	7.43	-25.15
Cdh2	11.56	6.90	-25.30
Mxra8	11.99	7.32	-25.48
Lyve1	11.35	6.67	-25.61
Gm7609 Csprs Gm75			
82	11.70	7.01	-25.81
Gm7609 Csprs Gm75			
82	11.74	7.03	-26.18
Tmem45a	10.49	5.78	-26.19
Fkbp10 Nt5c3l	12.11	7.36	-26.81
Pmp22	12.72	7.91	-28.06
Oasl2	12.77	7.96	-28.06
Oas1g Oas1a	11.86	7.03	-28.47
Oas2	11.87	7.01	-29.12

Pdpn	12.13	7.25	-29.44
Cd97	11.58	6.69	-29.84
Sgce	11.08	6.14	-30.68
Tgtp1 Tgtp2 Gm1218			
5	11.55	6.51	-32.93
Fam111a	10.50	5.46	-33.00
Gda	11.40	6.22	-36.10
Ctla2a	11.62	6.35	-38.72
Aebp1	12.41	7.06	-40.79
Rpp25	11.83	6.47	-40.99
Nid1	12.06	6.61	-43.60
Scd1	11.81	6.32	-44.91
Vcan	11.72	6.18	-46.57
Lbp	12.63	7.08	-46.97
Lox	11.42	5.85	-47.66
Mmp3	11.90	6.19	-52.57
Eng	12.88	7.16	-52.64
Neto1	11.84	6.00	-57.07
Timp3	12.23	6.31	-60.63
Folh1	11.78	5.73	-66.48
Prg4	11.76	5.67	-68.47
Ifi2712a	12.87	6.64	-75.20
Gabra3	12.59	6.32	-77.10
Dcn	12.04	5.77	-77.19
Cd34	12.73	6.39	-80.62
Ms4a4d	12.08	5.70	-83.39
Slc43a3	13.40	6.88	-92.16
Sepp1	12.39	5.84	-93.64
Vim	13.74	7.02	-105.34
Serpina3n	13.56	6.57	-126.97