

Supplementary Table 1

chr: start-end	Refseq_name	symbol	FC	P value
chr9:94439901-94441600	NM_017130	Neu2	1701.00	1.21E-06
chr13:78329801-78331500	NM_001108348	Lhx4	1701.00	1.21E-06
chr8:15094301-15096000	NM_138544	Fat3	1701.00	1.21E-06
chr4:224253701-224255200	NR_031887	Mir141	1501.00	5.11E-06
chr4:224253701-224255200	NR_037367	Mir3575	1501.00	5.11E-06
chr4:224253701-224255200	NR_031915	Mir200c	1501.00	5.11E-06
chr5:159895401-159896900	NM_013059	Alpl	1501.00	5.11E-06
chr5:163194801-163196100	NM_001100539	Sdhb	1401.00	1.06E-05
chr8:36486801-36488000	NM_001025284	Rpusd4	1401.00	1.06E-05
chr3:117685301-117686800	NM_001107760	Dll4	1301.00	2.18E-05
chr18:46953801-46955400	NM_001107379	Sncaip	1301.00	2.18E-05
chr8:66710001-66711200	NM_001014092	Paqr5	1301.00	2.18E-05
chrX:92037701-92038900	NM_001110366	Pabpc5	1301.00	2.18E-05
chr5: 55573918-55575017	NM_001008513	Ccl21	1201.00	4.53E-05
chr12:21322401-21323700	NM_001012021	Zscan21	1201.00	4.53E-05
chr2:147602901-147604100	NM_001008374	Pgrmc2	1201.00	4.53E-05
chr14:21659301-21660300	NM_022263	Cabs1	1201.00	4.53E-05
chr13:96742501-96743700	NM_001000085	Olr1593	1201.00	4.53E-05
chr11:46047001-46048300	NM_001108842	Arl6	1201.00	4.53E-05
chr19:32225501-32226700	NM_001305181	N4bp1	1201.00	4.53E-05
chr4:223444001-223445400	NM_001170584	Pex5	1201.00	4.53E-05
chr8:83270401-83271400	NM_001108169	Fam83b	1201.00	4.53E-05
chr3:167364601-167366300	NM_001008881	Spint5p	1201.00	4.53E-05
chr14:17139601-17140900	NM_001012034	Art3	1201.00	4.53E-05
chr8:116473401-116474500	NM_001135012	Usp4	1201.00	4.53E-05
chr8:116473401-116474500	NM_001106093	Usp4	1201.00	4.53E-05
chr1:233853901-233855600	NM_019295	Cd5	1201.00	4.53E-05
chr15:38202701-38204100	NM_001106038	Ipo4	1201.00	4.53E-05
chr1:23981401-23982700	NM_001009975	Taar7c	1201.00	4.53E-05
chr15:50001401-50002500	NM_001037529	Defb44	1101.00	9.42E-05
chr1:129984001-129985100	NM_052807	Igf1r	1101.00	9.42E-05
chr10:94863101-94864500	NM_001107061	Smurf2	1101.00	9.42E-05
chr5:141526901-141528000	NM_001000583	Olr857	1101.00	9.42E-05
chr11:84844001-84845100	NM_001015021	Dnajb11	1101.00	9.42E-05
chr8:48851901-48853100	NM_031549	Tagln	1101.00	9.42E-05
chr1:142496201-142497400	NM_001107531	Mesp1	1101.00	9.42E-05
chr11:90680601-90681900	NM_001108325	Med15	1101.00	9.42E-05

chr1:156263801-156265100	NM_001000118	Olr20	1101.00	9.42E-05
chr4:233155301-233156300	NM_001109254	Gprc5d	1101.00	9.42E-05
chr5:165679201-165680200	NM_019358	Pdpn	1101.00	9.42E-05
chr1:144526601-144527800	NM_001127451	Fam103a1	1101.00	9.42E-05
chrX:107379901-107381000	NM_030990	Plp1	1101.00	9.42E-05
chr11:91179301-91180800	NR_032270	Mir301b	1101.00	9.42E-05
chr10:43663401-43664800	NM_031537	LOC24906	1101.00	9.42E-05
chr20:16761001-16762000	NM_001127557	Rtdr1	1101.00	9.42E-05
chr19:11282401-11283400	NM_001137564	Mt2A	1101.00	9.42E-05
chr11:91478001-91479400	NM_001034960	Spag6	1101.00	9.42E-05
chrX:115998801-116000500	NM_001191615	Lima1	1101.00	9.42E-05
chr4:205767701-205768700	NM_031040	Grm7	1001.00	1.97E-04
chr1:65852001-65853000	NM_001099491	Vom2r17	1001.00	1.97E-04
chr1:179277101-179278100	NM_001000217	Olr247	1001.00	1.97E-04
chr15:37709001-37710100	NM_001106035	RGD1564324	1001.00	1.97E-04
chr5:174818501-174819600	NM_001191063	Ccdc27	1001.00	1.97E-04
chr16:7232501-7233500	NM_001100882	Sema3g	1001.00	1.97E-04
chr2:230411501-230412600	NM_001107715	Gpr61	1001.00	1.97E-04
chr2:72139401-72140600	NM_019192	Selenop	1001.00	1.97E-04
chr2:72139401-72140600	NM_001083911	Selenop	1001.00	1.97E-04
chr19:68046801-68047900	NM_001271140	Capn9	1001.00	1.97E-04
chr10:105330801-105331800	NM_001031652	St6galnac2	1001.00	1.97E-04
chr1:211598301-211599400	NM_001170476	Nkx1-2	1001.00	1.97E-04
chr12:40371301-40372300	NM_001008292	Diablo	1001.00	1.97E-04
chr4:238837501-238838800	NM_139340	Plekha5	1001.00	1.97E-04
chr9:16745301-16746300	NM_001108206	Tcte1	1001.00	1.97E-04
chr1:102620501-102621500	NM_001191111	Hsd17b14	1001.00	1.97E-04
chr7:120145501-120146600	NM_019904	Lgals1	1001.00	1.97E-04
chr3:158615401-158616400	NM_001013923	Ndrp3	1001.00	1.97E-04
chr8:55829701-55830700	NM_001103354	LOC100125362	1001.00	1.97E-04
chr10:90099101-90100100	NM_012651	Slc4a1	1001.00	1.97E-04
chr18:20215601-20216700	NR_032111	Mir224	1001.00	1.97E-04
chrX:33876101-33877200	NM_001004253	Syap1	1001.00	1.97E-04
chr9:99820501-99821600	NM_001109009	Aqp12a	1001.00	1.97E-04
chr13:54918601-54919700	NM_001105951	Pik3c2b	1001.00	1.97E-04
chr20:7092901-7093900	NM_001004069	Sapcd1	1001.00	1.97E-04
chr10:73845701-73847100	NM_133383	Scpep1	1001.00	1.97E-04
chr1:85254101-85255100	NM_001012065	Coq8b	1001.00	1.97E-04
chr8:105478501-105479500	NM_134377	Clstn2	1001.00	1.97E-04
chr6:141969801-141971000	NM_001013170	Wars	1001.00	1.97E-04

chr15:107448001-107449000	NM_001106058	Cldn10	1001.00	1.97E-04
chr1:274896501-274897500	NM_001106366	Col17a1	1001.00	1.97E-04
chr8:33856801-33857800	NM_012555	Ets1	1001.00	1.97E-04
chr10:43888401-43889600	NM_001000780	Olr1421	1001.00	1.97E-04
chr5:138791301-138792300	NM_001007747	Pomgnt1	1001.00	1.97E-04
chr14:14367601-14368600	NM_012823	Anxa3	1001.00	1.97E-04
chr19:65893201-65894200	NM_181364	Mlnr	1001.00	1.97E-04
chr17:29409101-29410100	NM_001008891	Ssr1	1001.00	1.97E-04
chr10:47055601-47056600	NM_053981	Kcnj12	1001.00	1.97E-04
chrX:16403501-16404500	NM_001109013	Praf2	1001.00	1.97E-04
chr1:172089501-172090500	NM_001108495	Relt	1001.00	1.97E-04
chr7:70630801-70631900	NM_022860	B4galnt1	1001.00	1.97E-04
chr12:16204901-16205900	NM_001037220	Ap5z1	1001.00	1.97E-04
chr13:102195101-102196100	NM_001109079	Kif26b	1001.00	1.97E-04
chr18:78317401-78318700	NM_012958	Galr1	1001.00	1.97E-04
chr7:12875801-12876800	NM_001109284	Misp	1001.00	1.97E-04
chr2:76177401-76178400	NM_031048	Lifr	1001.00	1.97E-04
chr9:19660101-19662800	NM_181475	Cd2ap	27.73	1.99E-08
chr3:2707401-2709600	NM_001106555	C8g	23.77	2.98E-07
chr3:2707401-2709600	NM_001025730	Fbxw5	23.77	2.98E-07
chr4:232323901-232326400	NM_023954	Kcna6	22.78	5.86E-07
chr3:101433001-101435000	NM_001109203	Prrg4	21.79	1.15E-06
chr12:18078501-18080400	NM_001107124	Ttyh3	19.81	4.42E-06
chr1:128722001-128724100	NM_001127561	Cers3	19.81	4.42E-06
chrX:43800201-43802400	NM_053512	Prdx4	19.81	4.42E-06
chr8:127952601-127954500	NM_133534	Cx3cr1	18.82	8.66E-06
chr5:155546701-155548600	NM_001039339	Zdhhc18	17.83	1.70E-05
chr10:34296101-34298000	NM_030861	Mgat1	17.83	1.70E-05
chr11:30705201-30706900	NM_001024235	Ltn1	16.84	3.31E-05
chr20:5724801-5726600	NR_002316	CB741658	15.85	6.47E-05
chr14:44870501-44872400	NM_001172120	Tlr1	15.85	6.47E-05
chr3:101852001-101853700	NM_001144862	LOC691083	15.85	6.47E-05
chr6:101679901-101681200	NM_001009831	Atl1	15.85	6.47E-05
chr1:33199901-33201700	NM_012654	Slc9a3	15.85	6.47E-05
chr8:58430301-58432000	NM_001191109	Nrg4	14.86	1.26E-04
chr5:82480301-82482000	NM_001109511	Hdhd3	14.86	1.26E-04
chr1:191273101-191274900	NM_001106285	Insc	14.86	1.26E-04
chr5:159897401-159898700	NM_013059	Alpl	14.86	1.26E-04
chr1:106162901-106164500	NM_053557	Prmt3	14.86	1.26E-04
chr19:66218601-66220300	NM_001108453	Cbfa2t3	14.86	1.26E-04

chr4:148633701-148635400	NM_001034010	Tril	14.86	1.26E-04
chr9:54751101-54752700	NM_001014216	Nabp1	14.86	1.26E-04
chr1:43449801-43451200	NM_001106207	Myct1	14.86	1.26E-04
chr14:33957601-33959400	NM_001024770	Exoc1	13.87	2.45E-04
chr5:163140501-163142300	NM_017226	Padi2	13.87	2.45E-04
chr7:129873601-129875200	NM_001106789	Ppp6r2	13.87	2.45E-04
chr3:82196301-82198000	NM_001000666	Olr563	13.87	2.45E-04
chr1:223154801-223156500	NM_032073	Kcnq1	13.87	2.45E-04
chr1:227699501-227700700	NM_031596	Sart1	13.87	2.45E-04
chr8:33507401-33509200	NM_017297	Kcnj5	13.87	2.45E-04
chr10:105159501-105161400	NM_001270807	Sphk1	13.87	2.45E-04
chr14:86721001-86722300	NM_031352	Dbnl	13.87	2.45E-04
chr14:86721001-86722300	NM_001277213	Dbnl	13.87	2.45E-04
chr14:86721001-86722300	NM_001277212	Dbnl	13.87	2.45E-04
chr14:86721001-86722300	NM_001277211	Dbnl	13.87	2.45E-04
chr9:9425801-9427200	NM_133404	Lonp1	13.87	2.45E-04
chr8:80586301-80588200	NM_001135719	Wdr72	13.87	2.45E-04
chr10:56044701-56046300	NM_001001513	Tnfsf12	13.87	2.45E-04
chr8:118631801-118633200	NM_001106864	Ltf	12.88	4.77E-04
chr17:34409301-34410700	NM_001107351	Serpinb9d	12.88	4.77E-04
chr16:20241301-20242800	NM_001170604	Il12rb1	12.88	4.77E-04
chr4:162569201-162570700	NM_024127	Gadd45a	12.88	4.77E-04
chr12:21319601-21321000	NM_001012021	Zscan21	12.88	4.77E-04
chr10:69110501-69112000	NM_001105822	Ccl12	12.88	4.77E-04
chr1:175690001-175691600	NM_001000546	Olr152	12.88	4.77E-04
chr10:71756801-71758300	NM_145880	Lhx1	12.88	4.77E-04
chr10:71756801-71758300	NR_132638	LOC102553190	12.88	4.77E-04
chr7:118101001-118102700	NM_021588	Mb	12.88	4.77E-04
chr3:86761001-86762400	NM_001271346	Ddb2	12.88	4.77E-04
chr14:20065201-20066700	NM_023980	Npffr2	12.88	4.77E-04
chr13:113002901-113004400	NM_001107201	Prox1	12.88	4.77E-04
chr2:280075901-280077400	NM_199494	Fpgt	12.88	4.77E-04
chr2:280075901-280077400	NM_001024307	Lrriq3	12.88	4.77E-04
chr3:12401201-12402900	NM_001108576	Mrps2	12.88	4.77E-04
chr3:12401201-12402900	NM_001106564	RGD1306233	12.88	4.77E-04
chr2:48302201-48303400	NM_001100692	Tnpo1	12.88	4.77E-04
chr8:131497901-131499000	NM_057212	Tmem158	12.88	4.77E-04
chr2:227343701-227345200	NM_001270962	Kcnd3	12.88	4.77E-04
chr2:227343701-227345200	NM_001270963	Kcnd3	12.88	4.77E-04
chr2:227343701-227345200	NM_031739	Kcnd3	12.88	4.77E-04

chr9:94598801-94600000	NM_001108809	Atg16l1	12.88	4.77E-04
chr8:5835701-5837000	NM_001106800	Mmp20	12.88	4.77E-04
chr14:79176101-79177700	NM_001107225	Sorcs2	12.88	4.77E-04
chr3:128417301-128418600	NM_138536	Ttl	12.88	4.77E-04
chr9:15551801-15553100	NM_001034136	Mrpl2	12.88	4.77E-04
chr9:61210001-61211600	NM_001191807	Ankrd44	12.88	4.77E-04
chr3:180573201-180574600	NM_001009656	Zgpat	12.88	4.77E-04
chr3:180573201-180574600	NM_053980	Arfrp1	12.88	4.77E-04
chr3:18018901-18020900	NM_053709	Lmx1b	11.95	2.81E-06
chr3:104704001-104705200	NM_001007597	Fshb	11.89	9.26E-04
chr20:5483801-5485100	NM_212496	Dhx16	11.89	9.26E-04
chr15:38501301-38502700	NM_001277668	Mcpt1l1	11.89	9.26E-04
chr4:186023701-186025100	NM_001005902	Abtb1	11.89	9.26E-04
chr8:47886801-47888100	NM_207610	Ube4a	11.89	9.26E-04
chr10:17947901-17949300	NM_019199	Fgf18	11.89	9.26E-04
chr5:144770201-144771400	NM_001100538	Pabpc4	11.89	9.26E-04
chr2:19685401-19686500	NM_001191843	Atp6ap1l	11.89	9.26E-04
chr1:103974101-103975400	NM_017025	Ldha	11.89	9.26E-04
chr1:138007101-138008300	NM_001106271	Akap13	11.89	9.26E-04
chr1:58190201-58191300	NM_001024747	Phf10	11.89	9.26E-04
chr1:153101101-153102400	NM_001277272	Haus7	11.89	9.26E-04
chr1:85703601-85705100	NM_001191621	Map3k10	11.89	9.26E-04
chr20:3781101-3782300	NM_001001119	Olr1734	11.89	9.26E-04
chr1:146698501-146699600	NM_001192011	Stard5	11.89	9.26E-04
chr18:30293901-30295400	NM_001114604	Pcdhb21	11.89	9.26E-04
chr14:81647001-81648400	NM_001130062	Dok7	11.89	9.26E-04
chr7:57694301-57695800	NM_001108991	Trhde	11.89	9.26E-04
chr11:87118501-87119800	NM_053837	Ap2m1	11.89	9.26E-04
chr1:43497001-43498000	NM_053991	Vip	11.89	9.26E-04
chr10:55957601-55958800	NM_012507	Atp1b2	11.89	9.26E-04
chr1:203926501-203927600	NM_133380	Il4r	11.89	9.26E-04
chr9:9748601-9749900	NM_001008882	Uhrf1	11.89	9.26E-04
chr7:121882301-121883600	NM_001130502	Fam83f	11.89	9.26E-04
chr3:85575001-85576300	NM_001000619	Olr727	11.89	9.26E-04
chr5:53880301-53881700	NM_012784	Cnr1	11.89	9.26E-04
chr11:75782001-75783300	NM_012777	Apod	11.89	9.26E-04
chr2:208013801-208014900	NR_110715	LOC102550325	11.89	9.26E-04
chr3:101389201-101391500	NM_001139493	Qser1	11.45	5.32E-06
chr3:129302501-129304400	NM_001025732	Nop56	10.95	1.00E-05
chr6:22514101-22516400	NM_012978	Lhcgr	10.95	1.00E-05

chr10:15498701-15500800	NM_013096	Hba1	10.95	1.00E-05
chr7:62151301-62153200	NM_054004	Cand1	10.45	1.89E-05
chr1:229188201-229190200	NM_022698	Bad	10.45	1.89E-05
chr1:229188201-229190200	NM_001109562	Gpr137	10.45	1.89E-05
