

ensembl_id	type	str	symbol	length	chr
ENSMUSG00000087497.5	antisense	+	2810001G20Rik	959	chr11
ENSMUSG00000089665.1	antisense	-	Fcor	366	chr8
ENSMUSG00000063714.13	antisense	+	Sp3os	870	chr2
ENSMUSG00000092564.1	antisense	-	BC051226	837	chr17
ENSMUSG00000086429.7	antisense	-	Gt(ROSA)26Sor	1572	chr6
ENSMUSG00000060424.12	lincRNA	-	Pantr1	4060	chr1
ENSMUSG00000087211.5	lincRNA	+	Lhx1os	589	chr11
ENSMUSG00000097248.6	lincRNA	+	Gm2694	5003	chr8
ENSMUSG00000098087.1	lincRNA	-	Gm17750	529	chr13
ENSMUSG00000073155.10	lincRNA	+	1810058I24Rik	2611	chr6
ENSMUSG00000100691.1	lincRNA	+	2010320M18Rik	1009	chr8
ENSMUSG00000099061.1	lincRNA	-	Gm28050	984	chr5
ENSMUSG00000098234.5	lincRNA	-	Snhg6	979	chr1
ENSMUSG00000097383.1	lincRNA	+	1500026H17Rik	3027	chr10
ENSMUSG00000086013.1	lincRNA	+	Gm15706	899	chr6
ENSMUSG00000087590.2	lincRNA	+	Epb4.1I4aos	430	chr18
ENSMUSG00000086290.6	lincRNA	+	Snhg12	1363	chr4
ENSMUSG00000097059.1	lincRNA	+	Fam120aos	1780	chr13
ENSMUSG00000031231.4	protein_coding	+	Cox7b	1001	chrX
ENSMUSG00000029632.5	protein_coding	-	Ndufa4	492	chr6
ENSMUSG00000026385.14	protein_coding	-	Dbi	871	chr1
ENSMUSG00000050856.14	protein_coding	-	Atp5k	371	chr5
ENSMUSG00000061808.3	protein_coding	+	Ttr	1219	chr18
ENSMUSG00000087687.2	protein_coding	+	Pet100	1189	chr8
ENSMUSG00000039016.4	protein_coding	+	Timm8b	527	chr9
ENSMUSG00000036751.6	protein_coding	-	Cox6b1	505	chr7
ENSMUSG00000031760.8	protein_coding	+	Mt3	538	chr8
ENSMUSG00000079523.6	protein_coding	-	Tmsb10	1018	chr6
ENSMUSG00000044894.12	protein_coding	-	Uqcrq	1827	chr11
ENSMUSG00000054428.10	protein_coding	-	Atpif1	633	chr4
ENSMUSG00000054312.6	protein_coding	-	Mrps21	492	chr3
ENSMUSG00000024038.14	protein_coding	+	Ndufv3	2021	chr17
ENSMUSG00000033307.6	protein_coding	-	Mif	554	chr10
ENSMUSG00000032330.6	protein_coding	-	Cox7a2	754	chr9
ENSMUSG00000031765.7	protein_coding	+	Mt1	540	chr8
ENSMUSG00000035674.11	protein_coding	+	Ndufa3	397	chr7
ENSMUSG00000071866.9	protein_coding	+	Ppia	1170	chr11
ENSMUSG00000091537.2	protein_coding	-	Tma7	1278	chr9
ENSMUSG00000031762.6	protein_coding	+	Mt2	556	chr8
ENSMUSG00000040824.2	protein_coding	+	Snrpd2	613	chr7
ENSMUSG00000090841.1	protein_coding	-	Myl6	665	chr10
ENSMUSG00000037361.7	protein_coding	+	Sf3b6	1115	chr12
ENSMUSG00000071528.3	protein_coding	-	Usmg5	341	chr19
ENSMUSG00000020163.10	protein_coding	-	Uqcr11	445	chr10
ENSMUSG00000061518.8	protein_coding	+	Cox5b	865	chr1
ENSMUSG00000028998.6	protein_coding	-	Tomm7	1125	chr5

ENSMUSG00000041881.10	protein_coding	+	Ndufa7	508	chr17
ENSMUSG00000035885.4	protein_coding	-	Cox8a	545	chr19
ENSMUSG00000004366.3	protein_coding	-	Sst	599	chr16
ENSMUSG00000023020.2	protein_coding	+	Cox14	723	chr15
ENSMUSG00000084786.7	protein_coding	+	Ubl5	2811	chr9
ENSMUSG00000033543.15	protein_coding	+	Gtf2a2	1184	chr9
ENSMUSG00000016427.7	protein_coding	-	Ndufa1	419	chrX
ENSMUSG00000038690.13	protein_coding	-	Atp5j2	1021	chr5
ENSMUSG00000049775.14	protein_coding	-	Tmsb4x	1371	chrX
ENSMUSG00000029642.9	protein_coding	+	Polr1d	2221	chr5
ENSMUSG00000021290.5	protein_coding	-	2010107E04Rik	365	chr12
ENSMUSG00000022450.5	protein_coding	-	Ndufa6	560	chr15
ENSMUSG00000095217.1	protein_coding	+	Hist1h2bn	381	chr13
ENSMUSG00000020180.9	protein_coding	+	Snrpd3	3028	chr10
ENSMUSG00000024208.13	protein_coding	-	Uqcc2	610	chr17
ENSMUSG00000046432.10	protein_coding	+	Ngfrap1	973	chrX
ENSMUSG00000018102.4	protein_coding	+	Hist1h2bc	736	chr13
ENSMUSG00000029066.10	protein_coding	+	Mrpl20	926	chr4
ENSMUSG00000015013.8	protein_coding	+	Trappc2l	607	chr8
ENSMUSG00000030647.8	protein_coding	+	Ndufc2	683	chr7
ENSMUSG00000057278.6	protein_coding	+	Snrpg	350	chr6
ENSMUSG00000035048.11	protein_coding	+	Anapc13	1192	chr9
ENSMUSG00000030744.10	protein_coding	-	Rps3	1908	chr7
ENSMUSG00000002379.6	protein_coding	+	Ndufa11	2661	chr17
ENSMUSG00000009013.5	protein_coding	-	Dynll1	2211	chr5
ENSMUSG00000005054.6	protein_coding	+	Cstb	599	chr10
ENSMUSG00000071014.8	protein_coding	-	Ndufb6	659	chr4
ENSMUSG00000055839.5	protein_coding	-	Tceb2	508	chr17
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ENSMUSG00000034868.8	protein_coding	-	Myl12b	1253	chr17
ENSMUSG00000006941.4	protein_coding	+	Eif1b	917	chr9
ENSMUSG00000063787.3	protein_coding	+	Chchd1	587	chr14
ENSMUSG00000027133.3	protein_coding	+	Nop10	1109	chr2
ENSMUSG00000041571.9	protein_coding	-	Sepw1	736	chr7
ENSMUSG00000073702.9	protein_coding	+	Rpl31	1498	chr1
ENSMUSG00000059534.8	protein_coding	-	Uqcr10	434	chr11
ENSMUSG00000029649.8	protein_coding	+	Pomp	5035	chr5
ENSMUSG00000027533.10	protein_coding	+	Fabp5	987	chr3
ENSMUSG00000036438.10	protein_coding	-	Calm2	1205	chr17
ENSMUSG00000018770.7	protein_coding	-	Atp5g3	724	chr2
ENSMUSG00000054091.9	protein_coding	+	1810037117Rik	1160	chr3
ENSMUSG00000020022.14	protein_coding	+	Ndufa12	1110	chr10
ENSMUSG00000074884.10	protein_coding	+	Serf2	3189	chr2
ENSMUSG00000028691.10	protein_coding	+	Prdx1	2544	chr4
ENSMUSG00000042541.9	protein_coding	-	Shfm1	1472	chr6
ENSMUSG00000042750.7	protein_coding	-	Bex2	903	chrX

ENSMUSG00000073616.8	protein_coding	-	Myeov2	759	chr1
ENSMUSG00000020267.6	protein_coding	+	Hint1	872	chr11
ENSMUSG00000026568.6	protein_coding	+	Mpc2	1025	chr1
ENSMUSG00000037152.9	protein_coding	-	Ndufc1	1249	chr3
ENSMUSG00000009549.12	protein_coding	-	Srp14	1154	chr2
ENSMUSG00000025204.8	protein_coding	-	Ndufb8	2329	chr19
ENSMUSG00000029819.6	protein_coding	+	Npy	566	chr6
ENSMUSG00000096807.1	protein_coding	+	Hist1h2bm	381	chr13
ENSMUSG00000090223.1	protein_coding	+	Pcp4	641	chr16
ENSMUSG00000029223.10	protein_coding	+	Uchl1	1177	chr5
ENSMUSG00000050071.8	protein_coding	-	Bex1	866	chrX
ENSMUSG00000022820.3	protein_coding	-	Ndufb4	971	chr16
ENSMUSG00000024067.11	protein_coding	-	Dpy30	974	chr17
ENSMUSG00000022956.8	protein_coding	-	Atp5o	838	chr16
ENSMUSG00000009863.12	protein_coding	+	Sdhb	1142	chr4
ENSMUSG00000028367.5	protein_coding	-	Txn1	1051	chr4
ENSMUSG00000062997.6	protein_coding	-	Rpl35	946	chr2
ENSMUSG00000061787.12	protein_coding	-	Rps17	494	chr7
ENSMUSG00000036781.11	protein_coding	+	Rps27l	580	chr9
ENSMUSG00000036850.4	protein_coding	-	Mrpl41	776	chr2
ENSMUSG00000042675.13	protein_coding	+	Ypel3	1644	chr7
ENSMUSG00000017778.12	protein_coding	-	Cox7c	1131	chr13
ENSMUSG00000036309.12	protein_coding	+	Skp1a	1864	chr11
ENSMUSG00000042043.5	protein_coding	+	Tbca	503	chr13
ENSMUSG00000029465.12	protein_coding	+	Arpc3	1170	chr5
ENSMUSG00000014313.12	protein_coding	-	Cox6c	864	chr15
ENSMUSG00000051234.6	protein_coding	-	Rnf7	1232	chr9
ENSMUSG00000022890.11	protein_coding	-	Atp5j	1115	chr16
ENSMUSG00000027076.8	protein_coding	+	Timm10	815	chr2
ENSMUSG00000056895.4	protein_coding	+	Hist3h2ba	614	chr11
ENSMUSG00000049536.5	protein_coding	+	Tceal1	2803	chrX
ENSMUSG00000028643.8	protein_coding	+	Ccdc23	1065	chr4
ENSMUSG00000032526.10	protein_coding	+	Deb1	517	chr9
ENSMUSG00000031818.10	protein_coding	+	Cox4i1	765	chr8
ENSMUSG00000023089.10	protein_coding	-	Ndufa5	875	chr6
ENSMUSG00000060743.10	protein_coding	-	H3f3a	3001	chr1
ENSMUSG00000039105.6	protein_coding	+	Atp6v1g1	1135	chr4
ENSMUSG00000063882.10	protein_coding	-	Uqcrh	547	chr4
ENSMUSG00000015090.11	protein_coding	-	Ptgds	938	chr2
ENSMUSG00000062753.11	protein_coding	-	AI413582	836	chr17
ENSMUSG00000041697.8	protein_coding	-	Cox6a1	571	chr5
ENSMUSG00000019738.13	protein_coding	+	Polr2i	954	chr7
ENSMUSG00000069744.7	protein_coding	+	Psm3	766	chr11
ENSMUSG00000032532.6	protein_coding	-	Cck	685	chr9
ENSMUSG00000067847.11	protein_coding	+	Romo1	747	chr2
ENSMUSG00000033429.8	protein_coding	+	Mcee	824	chr7
ENSMUSG00000058385.7	protein_coding	+	Hist1h2bg	477	chr13

ENSMUSG00000006717.6	protein_coding	-	Acot13	721	chr13
ENSMUSG00000014769.9	protein_coding	-	Psmb1	1036	chr17
ENSMUSG00000049760.5	protein_coding	-	2410015M20Rik	755	chr17
ENSMUSG00000057863.5	protein_coding	+	Rpl36	404	chr17
ENSMUSG00000039771.11	protein_coding	+	Polr2j	1106	chr5
ENSMUSG00000027581.12	protein_coding	-	Stmn3	1136	chr2
ENSMUSG00000041959.12	protein_coding	+	S100a10	802	chr3
ENSMUSG00000026032.8	protein_coding	+	Ndufb3	763	chr1
ENSMUSG00000023861.15	protein_coding	+	Mpc1	1470	chr17
ENSMUSG00000045948.8	protein_coding	-	Mrps12	933	chr7
ENSMUSG00000002768.7	protein_coding	+	Mea1	840	chr17
ENSMUSG00000008822.13	protein_coding	-	Acyp1	1380	chr12
ENSMUSG00000070394.8	protein_coding	+	Tmem256	492	chr11
ENSMUSG00000024646.11	protein_coding	+	Cyb5a	1485	chr18
ENSMUSG00000071658.4	protein_coding	-	Gng3	1699	chr19
ENSMUSG00000038722.15	protein_coding	+	Bud31	988	chr5
ENSMUSG00000022354.3	protein_coding	+	Ndufb9	651	chr15
ENSMUSG00000004667.16	protein_coding	-	Polr2e	1148	chr10
ENSMUSG00000003038.13	protein_coding	-	Hmgn2	1993	chr4
ENSMUSG000000033916.4	protein_coding	-	Chmp2a	927	chr7
ENSMUSG00000049751.6	protein_coding	-	Rpl36al	1353	chr12
ENSMUSG00000057841.3	protein_coding	-	Rpl32	517	chr6
ENSMUSG000000034880.6	protein_coding	+	Mrpl34	645	chr8
ENSMUSG00000094338.1	protein_coding	-	Hist1h2bl	381	chr13
ENSMUSG000000030037.8	protein_coding	+	Mrpl53	640	chr6
ENSMUSG00000021040.13	protein_coding	+	Slirp	3104	chr12
ENSMUSG00000021520.4	protein_coding	-	Uqcrb	535	chr13
ENSMUSG00000031516.9	protein_coding	-	Dctn6	1640	chr8
ENSMUSG00000018293.4	protein_coding	-	Pfn1	1026	chr11
ENSMUSG00000040048.12	protein_coding	-	Ndufb10	732	chr17
ENSMUSG00000049299.12	protein_coding	+	Trappc1	842	chr11
ENSMUSG00000014846.10	protein_coding	-	Tppp3	1848	chr8
ENSMUSG00000025739.11	protein_coding	+	Gng13	773	chr17
ENSMUSG00000061615.2	protein_coding	+	Hist1h2ab	473	chr13
ENSMUSG00000073888.10	protein_coding	-	Ccl27a	1777	chr4
ENSMUSG00000090247.5	protein_coding	-	Bloc1s1	915	chr10
ENSMUSG00000020635.7	protein_coding	-	Fkbp1b	979	chr12
ENSMUSG00000009927.8	protein_coding	+	Rps25	683	chr9
ENSMUSG00000036372.12	protein_coding	+	Tmem258	698	chr19
ENSMUSG00000071451.7	protein_coding	+	Psmg4	554	chr13
ENSMUSG00000042712.8	protein_coding	+	Wbp5	1037	chrX
ENSMUSG00000031839.6	protein_coding	+	Hsbp1	1163	chr8
ENSMUSG00000030869.9	protein_coding	-	Ndufab1	4387	chr7
ENSMUSG00000021643.12	protein_coding	+	Serf1	1315	chr13
ENSMUSG00000090862.2	protein_coding	-	Rps13	582	chr7
ENSMUSG00000002580.7	protein_coding	-	Mien1	747	chr11
ENSMUSG00000075706.8	protein_coding	+	Gpx4	1272	chr10

ENSMUSG00000019054.11	protein_coding	+	Fis1	1102	chr5
ENSMUSG00000038803.7	protein_coding	-	Ost4	1272	chr5
ENSMUSG00000020801.8	protein_coding	-	Med31	1161	chr11
ENSMUSG00000027447.6	protein_coding	-	Cst3	860	chr2
ENSMUSG00000087260.3	protein_coding	+	Lamtor5	884	chr3
ENSMUSG00000031197.9	protein_coding	+	Vbp1	1806	chrX
ENSMUSG00000021917.12	protein_coding	-	Spcs1	1294	chr14
ENSMUSG00000024099.12	protein_coding	-	Ndufv2	1637	chr17
ENSMUSG00000017188.3	protein_coding	-	Coa3	886	chr11
ENSMUSG00000090553.6	protein_coding	-	Snrpe	1372	chr1
ENSMUSG000000051989.9	protein_coding	+	Smim11	972	chr16
ENSMUSG00000070493.3	protein_coding	-	Chchd2	915	chr5
ENSMUSG00000004285.10	protein_coding	+	Atp6v1f	703	chr6
ENSMUSG00000003873.10	protein_coding	-	Bax	869	chr7
ENSMUSG00000002477.4	protein_coding	+	Snrpd1	837	chr18
ENSMUSG000000038412.7	protein_coding	-	Higd1a	1873	chr9
ENSMUSG00000028447.9	protein_coding	-	Dctn3	973	chr4
ENSMUSG00000022400.8	protein_coding	+	Rbx1	1655	chr15
ENSMUSG00000034566.8	protein_coding	-	Atp5h	761	chr11
ENSMUSG00000031059.9	protein_coding	-	Ndufb11	908	chrX
ENSMUSG00000001158.11	protein_coding	-	Snrnp27	1365	chr6
ENSMUSG00000036860.12	protein_coding	+	Mrpl55	1027	chr11
ENSMUSG00000090000.1	protein_coding	+	Ier3ip1	1395	chr18
ENSMUSG00000029038.7	protein_coding	+	Ssu72	1616	chr4
ENSMUSG00000013822.6	protein_coding	-	Elof1	1092	chr9
ENSMUSG00000034345.12	protein_coding	+	Gtf2h5	2390	chr17
ENSMUSG00000044627.9	protein_coding	-	Swi5	951	chr2
ENSMUSG00000093674.5	protein_coding	-	Rpl41	718	chr10
ENSMUSG00000003955.7	protein_coding	-	Fam162a	635	chr16
ENSMUSG00000078974.8	protein_coding	-	Sec61g	1977	chr11
ENSMUSG00000027566.12	protein_coding	-	Psm7	914	chr2
ENSMUSG00000063316.11	protein_coding	+	Rpl27	880	chr11
ENSMUSG00000106918.1	protein_coding	+	Mrpl33	478	chr5
ENSMUSG00000030844.9	protein_coding	-	Rgs10	880	chr7
ENSMUSG00000050608.9	protein_coding	-	Minos1	2549	chr4
ENSMUSG00000000355.11	protein_coding	+	Mcts1	783	chrX
ENSMUSG00000022452.12	protein_coding	+	Smdt1	831	chr15
ENSMUSG00000001289.10	protein_coding	+	Pfdn5	1386	chr15
ENSMUSG00000047260.4	protein_coding	-	Emc6	1415	chr11
ENSMUSG00000027245.9	protein_coding	+	Hypk	4378	chr2
ENSMUSG00000075031.3	protein_coding	+	Hist1h2bb	452	chr13
ENSMUSG00000028398.8	protein_coding	-	Tmem261	741	chr4
ENSMUSG00000072772.3	protein_coding	-	Grcc10	863	chr6
ENSMUSG00000021660.12	protein_coding	-	Btf3	1208	chr13
ENSMUSG00000023939.7	protein_coding	+	Mrpl14	645	chr17
ENSMUSG00000028773.8	protein_coding	+	Fabp3	823	chr4
ENSMUSG00000001707.7	protein_coding	-	Eef1e1	1032	chr13

ENSMUSG00000073676.4	protein_coding	+	Hspe1	774	chr1
ENSMUSG00000030579.9	protein_coding	+	Tyrobp	564	chr7
ENSMUSG00000035383.7	protein_coding	+	Pmch	749	chr10
ENSMUSG00000026688.5	protein_coding	-	Mgst3	1097	chr1
ENSMUSG00000057322.10	protein_coding	+	Rpl38	542	chr11
ENSMUSG00000072694.7	protein_coding	-	1500011B03Rik	1746	chr5
ENSMUSG00000018286.6	protein_coding	+	Psmb6	798	chr11
ENSMUSG00000030342.8	protein_coding	-	Cd9	1228	chr6
ENSMUSG00000014504.14	protein_coding	+	Srp19	876	chr18
ENSMUSG00000034192.4	protein_coding	+	Lsm3	743	chr6
ENSMUSG00000044629.5	protein_coding	+	Cnrip1	1654	chr11
ENSMUSG00000022205.13	protein_coding	-	Sub1	3485	chr15
ENSMUSG00000005687.12	protein_coding	+	Bcas2	1467	chr3
ENSMUSG00000062963.8	protein_coding	-	Ufc1	1100	chr1
ENSMUSG00000001105.13	protein_coding	+	lft20	1141	chr11
ENSMUSG00000024346.5	protein_coding	-	Pfdn1	1077	chr18
ENSMUSG00000062981.4	protein_coding	-	Mrpl42	666	chr10
ENSMUSG00000018585.9	protein_coding	-	Atox1	541	chr11
ENSMUSG00000028832.9	protein_coding	+	Stmn1	1431	chr4
ENSMUSG00000012483.4	protein_coding	-	Rpa3	670	chr6
ENSMUSG00000019505.7	protein_coding	+	Ubb	1499	chr11
ENSMUSG00000006373.10	protein_coding	+	Pgrmc1	1857	chrX
ENSMUSG00000020485.12	protein_coding	+	Supt4a	706	chr11
ENSMUSG00000037499.9	protein_coding	-	Nenf	742	chr1
ENSMUSG00000062328.7	protein_coding	+	Rpl17	775	chr18
ENSMUSG00000047459.12	protein_coding	+	Dynlrb1	1003	chr2
ENSMUSG00000020644.8	protein_coding	-	Id2	1270	chr12
ENSMUSG00000010376.12	protein_coding	-	Nedd8	604	chr14
ENSMUSG00000037072.13	protein_coding	+	Selenof	1514	chr3
ENSMUSG00000064168.4	protein_coding	-	Hist1h2bh	388	chr13
ENSMUSG00000024902.4	protein_coding	+	Mrpl11	2882	chr19
ENSMUSG00000021243.12	protein_coding	+	Fcf1	812	chr12
ENSMUSG00000024414.11	protein_coding	+	Mrpl27	756	chr11
ENSMUSG00000021951.5	protein_coding	-	N6amt2	836	chr14
ENSMUSG00000067786.14	protein_coding	+	Nnat	1438	chr2
ENSMUSG0000001383.8	protein_coding	+	Zmat2	2257	chr18
ENSMUSG00000020526.10	protein_coding	-	Znhit3	998	chr11
ENSMUSG00000030291.10	protein_coding	+	Med21	1097	chr6
ENSMUSG00000047721.7	protein_coding	+	Bola2	1540	chr7
ENSMUSG00000027500.10	protein_coding	+	Stmn2	2073	chr3
ENSMUSG00000078784.6	protein_coding	-	1810022K09Rik	1396	chr3
ENSMUSG00000024217.9	protein_coding	+	Snrpc	870	chr17
ENSMUSG00000069300.3	protein_coding	+	Hist1h2bj	463	chr13
ENSMUSG00000030218.1	protein_coding	-	Mgp	598	chr6
ENSMUSG00000031848.12	protein_coding	+	Lsm4	925	chr8
ENSMUSG00000006589.7	protein_coding	-	Aprt	866	chr8
ENSMUSG00000023911.10	protein_coding	-	Flywch2	694	chr17

ENSMUSG00000019874.9	protein_coding	+	Fabp7	1250	chr10
ENSMUSG00000027203.13	protein_coding	+	Dut	2162	chr2
ENSMUSG00000053317.9	protein_coding	+	Sec61b	564	chr4
ENSMUSG00000033940.7	protein_coding	+	Brk1	1092	chr6
ENSMUSG00000063200.3	protein_coding	+	Nol7	1811	chr13
ENSMUSG00000030417.13	protein_coding	-	Pdcd5	1013	chr7
ENSMUSG00000022370.11	protein_coding	-	Mrpl13	1223	chr15
ENSMUSG00000078427.2	protein_coding	+	Sarnp	1062	chr10
ENSMUSG00000025468.12	protein_coding	-	Caly	1627	chr7
ENSMUSG00000051579.8	protein_coding	-	Tceal8	2449	chrX
ENSMUSG00000005716.14	protein_coding	-	Pvalb	1041	chr15
ENSMUSG00000033578.7	protein_coding	+	Tmem35	1918	chrX
ENSMUSG00000031104.2	protein_coding	+	Rab33a	1158	chrX
ENSMUSG00000020949.8	protein_coding	-	Fkbp3	947	chr12
ENSMUSG00000039195.4	protein_coding	-	1110008P14Rik	2694	chr2
ENSMUSG00000039680.9	protein_coding	+	Mrps6	846	chr16
ENSMUSG00000006315.8	protein_coding	-	Tmem147	868	chr7
ENSMUSG00000032067.5	protein_coding	-	Pts	1035	chr9
ENSMUSG00000044080.9	protein_coding	-	S100a1	694	chr3
ENSMUSG00000031879.11	protein_coding	-	Fam96b	917	chr8
ENSMUSG00000031458.7	protein_coding	-	Coprs	802	chr8
ENSMUSG00000060032.5	protein_coding	+	H2afj	1827	chr6
ENSMUSG00000037787.11	protein_coding	+	Apopt1	3883	chr12
ENSMUSG00000084957.2	protein_coding	-	Bbip1	2488	chr19
ENSMUSG00000050552.8	protein_coding	+	Lamtor4	877	chr5
ENSMUSG00000051483.8	protein_coding	+	Cbr1	1237	chr16
ENSMUSG00000014301.10	protein_coding	-	Pam16	596	chr16
ENSMUSG00000022427.3	protein_coding	+	Tomm22	1031	chr15
ENSMUSG00000107002.1	protein_coding	-	NCBP2-AS2	1445	chr16
ENSMUSG00000020171.7	protein_coding	-	Yeats4	1407	chr10
ENSMUSG00000025825.10	protein_coding	+	Iscu	1906	chr5
ENSMUSG00000047238.4	protein_coding	-	Mageh1	1410	chrX
ENSMUSG00000016252.7	protein_coding	-	Atp5e	421	chr2
ENSMUSG00000017404.10	protein_coding	+	Rpl19	804	chr11
ENSMUSG00000035215.8	protein_coding	-	Lsm7	468	chr10
ENSMUSG00000047246.6	protein_coding	-	Hist1h2be	2438	chr13
ENSMUSG00000015289.4	protein_coding	-	Lage3	2021	chrX
ENSMUSG00000075702.9	protein_coding	+	Selm	707	chr11
ENSMUSG00000062727.4	protein_coding	+	Hist1h2bk	476	chr13
ENSMUSG00000028062.13	protein_coding	-	Lamtor2	734	chr3
ENSMUSG00000051319.6	protein_coding	-	1500011K16Rik	800	chr2
ENSMUSG00000010406.9	protein_coding	+	Mrpl52	480	chr14
ENSMUSG00000031422.14	protein_coding	-	Morf4l2	2542	chrX
ENSMUSG00000078453.2	protein_coding	-	Abrac1	807	chr10
ENSMUSG00000037894.11	protein_coding	+	H2afz	1069	chr3
ENSMUSG00000039001.10	protein_coding	+	Rps21	394	chr2
ENSMUSG00000015671.10	protein_coding	+	Psma2	944	chr13

ENSMUSG00000063019.5	protein_coding	+	Manbal	1107	chr2
ENSMUSG00000000295.10	protein_coding	+	Hddc2	859	chr10
ENSMUSG000000061991.2	protein_coding	+	Hist1h2af	399	chr13
ENSMUSG000000042737.7	protein_coding	+	Dpm3	827	chr3
ENSMUSG000000024844.12	protein_coding	-	Banf1	820	chr19
ENSMUSG000000061762.10	protein_coding	+	Tac1	1230	chr6
ENSMUSG000000059291.13	protein_coding	-	Rpl11	833	chr4
ENSMUSG000000060923.5	protein_coding	-	Acyp2	863	chr11
ENSMUSG000000028609.6	protein_coding	+	Magoh	692	chr4
ENSMUSG00000002014.10	protein_coding	+	Ssr4	802	chrX
ENSMUSG000000021764.6	protein_coding	-	Ndufs4	1534	chr13
ENSMUSG000000026154.4	protein_coding	-	Sdhaf4	683	chr1
ENSMUSG000000047843.14	protein_coding	+	Bri3	1134	chr5
ENSMUSG000000046330.9	protein_coding	+	Rpl37a	584	chr1
ENSMUSG000000020803.3	protein_coding	+	Txndc17	981	chr11
ENSMUSG000000024914.14	protein_coding	-	Drap1	1128	chr19
ENSMUSG000000087651.2	protein_coding	+	1500009L16Rik	1193	chr10
ENSMUSG000000051185.9	protein_coding	+	Fam174a	4814	chr1
ENSMUSG000000052033.11	protein_coding	+	Pfdn4	1143	chr2
ENSMUSG000000030335.5	protein_coding	+	Mrpl51	2741	chr6
ENSMUSG000000033938.5	protein_coding	+	Ndufb7	623	chr8
ENSMUSG000000020514.6	protein_coding	+	Mrpl22	722	chr11
ENSMUSG000000078713.6	protein_coding	-	Tomm5	868	chr4
ENSMUSG000000024516.10	protein_coding	+	Sec11c	807	chr18
ENSMUSG000000024829.10	protein_coding	+	Mrpl21	1363	chr19
ENSMUSG000000034892.8	protein_coding	-	Rps29	390	chr12
ENSMUSG000000020415.14	protein_coding	-	Pttg1	1766	chr11
ENSMUSG000000098274.5	protein_coding	+	Rpl24	677	chr16
ENSMUSG000000022635.7	protein_coding	-	Zcrb1	886	chr15
ENSMUSG000000046727.10	protein_coding	+	Cystm1	1006	chr18
ENSMUSG000000062248.5	protein_coding	+	Cks2	692	chr13
ENSMUSG000000021361.6	protein_coding	+	Tmem14c	945	chr13
ENSMUSG000000028295.12	protein_coding	-	Smim8	1021	chr4
ENSMUSG000000041453.10	protein_coding	+	Rpl21	2402	chr5
ENSMUSG000000066456.12	protein_coding	-	Hmgn3	1546	chr9
ENSMUSG000000033751.5	protein_coding	+	Gadd45gip1	2494	chr8
ENSMUSG000000065990.10	protein_coding	+	Aurkaip1	1406	chr4
ENSMUSG000000063694.5	protein_coding	-	Cycs	3123	chr6
ENSMUSG000000021241.6	protein_coding	+	Isca2	868	chr12
ENSMUSG000000026087.9	protein_coding	+	Mrpl30	973	chr1
ENSMUSG000000034932.4	protein_coding	-	Mrpl54	604	chr10
ENSMUSG000000059325.12	protein_coding	-	Hopx	1516	chr5
ENSMUSG000000020955.8	protein_coding	+	Ap4s1	1113	chr12
ENSMUSG000000078566.6	protein_coding	-	Bnip3	1756	chr7
ENSMUSG000000037710.8	protein_coding	-	Cisd1	1084	chr10
ENSMUSG000000019797.8	protein_coding	-	1700021F05Rik	899	chr10
ENSMUSG000000042831.11	protein_coding	+	Alkbh6	982	chr7

ENSMUSG0000000581.6	protein_coding	+	C1d	2981	chr11
ENSMUSG00000026021.13	protein_coding	-	Sumo1	1215	chr1
ENSMUSG00000069268.4	protein_coding	-	Hist1h2bf	461	chr13
ENSMUSG00000076437.8	protein_coding	-	2700094K13Rik	1039	chr2
ENSMUSG00000062352.11	protein_coding	-	Itgb1bp1	2251	chr12
ENSMUSG00000044155.9	protein_coding	+	Lsm8	807	chr6
ENSMUSG00000025868.6	protein_coding	+	Higd2a	648	chr13
ENSMUSG00000022111.8	protein_coding	+	Uchl3	929	chr14
ENSMUSG00000016637.6	protein_coding	-	Ift27	1012	chr15
ENSMUSG00000032381.5	protein_coding	+	Fam96a	1240	chr9
ENSMUSG00000054717.6	protein_coding	+	Hmgb2	2692	chr8
ENSMUSG00000020477.8	protein_coding	-	Mrps24	995	chr11
ENSMUSG00000020219.6	protein_coding	-	Timm13	1225	chr10
ENSMUSG00000058833.9	protein_coding	-	2810428I15Rik	690	chr8
ENSMUSG00000078348.4	protein_coding	+	Sf3b5	3841	chr10
ENSMUSG00000010607.8	protein_coding	+	Pigyl	777	chr9
ENSMUSG00000059278.7	protein_coding	+	Naa38	671	chr11
ENSMUSG00000079435.7	protein_coding	+	Rpl36a	483	chrX
ENSMUSG00000045996.10	protein_coding	+	Polr2k	624	chr15
ENSMUSG00000070858.9	protein_coding	+	Gm1673	669	chr5
ENSMUSG00000038717.7	protein_coding	-	Atp5l	511	chr9
ENSMUSG00000022940.14	protein_coding	-	Pigp	1259	chr16
ENSMUSG00000037058.12	protein_coding	+	Paip2	1830	chr18
ENSMUSG00000036570.12	protein_coding	-	Fxyd1	709	chr7
ENSMUSG00000064030.12	protein_coding	+	Wibg	1285	chr10
ENSMUSG00000038622.7	protein_coding	+	Med30	871	chr15
ENSMUSG00000063171.3	protein_coding	+	Rps4l	943	chr6
ENSMUSG00000047844.3	protein_coding	+	Bex4	837	chrX
ENSMUSG00000028470.8	protein_coding	-	Hint2	610	chr4
ENSMUSG00000019689.4	protein_coding	+	1110001J03Rik	479	chr6
ENSMUSG00000047557.2	protein_coding	-	Lxn	1112	chr3
ENSMUSG00000061983.6	protein_coding	-	Rps12	476	chr10
ENSMUSG00000025532.11	protein_coding	+	Crcp	1492	chr5
ENSMUSG00000074754.4	protein_coding	+	Gm561	471	chr2
ENSMUSG00000008333.10	protein_coding	+	Snrpb2	2061	chr2
ENSMUSG00000030663.10	protein_coding	+	1110004F10Rik	1479	chr7
ENSMUSG00000067924.4	protein_coding	-	Cxx1b	1232	chrX
ENSMUSG00000025290.14	protein_coding	+	Rps24	840	chr14
ENSMUSG00000014294.4	protein_coding	-	Ndufa2	572	chr18
ENSMUSG00000058267.11	protein_coding	+	Mrps14	3233	chr1
ENSMUSG00000042198.10	protein_coding	+	Chchd7	1568	chr4
ENSMUSG00000051518.7	protein_coding	-	Rps19bp1	830	chr15
ENSMUSG00000031683.14	protein_coding	-	Lsm6	3792	chr8
ENSMUSG00000026051.8	protein_coding	+	1500015O10Rik	902	chr1
ENSMUSG00000049517.7	protein_coding	+	Rps23	756	chr13
ENSMUSG00000021131.11	protein_coding	-	Erh	1350	chr12
ENSMUSG00000001025.6	protein_coding	+	S100a6	809	chr3

ENSMUSG00000062006.10	protein_coding	-	Rpl34	1101	chr3
ENSMUSG00000031897.8	protein_coding	-	Psmb10	1270	chr8
ENSMUSG00000022013.3	protein_coding	-	Dnajc15	648	chr14
ENSMUSG00000020903.11	protein_coding	+	Stx8	6941	chr11
ENSMUSG00000032766.8	protein_coding	+	Gng11	880	chr6
ENSMUSG00000016495.10	protein_coding	-	Plgrkt	1118	chr19
ENSMUSG00000028145.9	protein_coding	+	Them4	1781	chr3
ENSMUSG00000094500.2	protein_coding	-	Smim18	587	chr8
ENSMUSG00000027472.12	protein_coding	-	Pdrg1	1273	chr2
ENSMUSG00000063253.8	protein_coding	-	Scoc	2062	chr8
ENSMUSG00000014075.13	protein_coding	+	Tctex1d2	838	chr16
ENSMUSG00000007777.7	protein_coding	-	0610009B22Rik	998	chr11
ENSMUSG00000057506.4	protein_coding	-	Bloc1s2	878	chr19
ENSMUSG00000049086.8	protein_coding	+	Bmyc	983	chr2
ENSMUSG00000007721.5	protein_coding	-	Ccdc124	911	chr8
ENSMUSG00000028443.6	protein_coding	+	Nudt2	845	chr4
ENSMUSG00000049960.3	protein_coding	-	Mrps16	566	chr14
ENSMUSG00000045854.4	protein_coding	+	Lym2	465	chr4
ENSMUSG00000076432.10	protein_coding	-	Ywhaq	2167	chr12
ENSMUSG00000074578.10	protein_coding	+	1500012F01Rik	737	chr2
ENSMUSG00000059355.11	protein_coding	+	Wdr83os	922	chr8
ENSMUSG00000051671.6	protein_coding	+	Coa6	762	chr8
ENSMUSG00000042682.8	protein_coding	+	Selk	1090	chr14
ENSMUSG00000016833.12	protein_coding	+	Mrps18c	940	chr5
ENSMUSG00000079197.8	protein_coding	-	Psme2	976	chr14
ENSMUSG00000030615.9	protein_coding	-	Tmem126a	794	chr7
ENSMUSG00000029715.5	protein_coding	-	Pop7	1081	chr5
ENSMUSG00000079641.3	protein_coding	-	Rpl39	612	chrX
ENSMUSG00000027673.10	protein_coding	+	Ndufb5	1291	chr3
ENSMUSG00000031950.7	protein_coding	+	Gabarapl2	1677	chr8
ENSMUSG00000023967.7	protein_coding	+	Mrps18a	1037	chr17
ENSMUSG00000003429.10	protein_coding	-	Rps11	602	chr7
ENSMUSG00000021124.11	protein_coding	-	Vti1b	1490	chr12
ENSMUSG00000042462.4	protein_coding	-	Dctpp1	676	chr7
ENSMUSG00000027165.14	protein_coding	-	B230118H07Rik	2856	chr2
ENSMUSG00000004610.3	protein_coding	+	Etfb	868	chr7
ENSMUSG00000021606.7	protein_coding	-	Ndufs6	568	chr13
ENSMUSG00000025508.11	protein_coding	+	Rplp2	1052	chr7
ENSMUSG00000062691.8	protein_coding	+	Cebpzoz	770	chr17
ENSMUSG00000033020.6	protein_coding	+	Polr2f	543	chr15
ENSMUSG00000063320.9	protein_coding	-	1190007I07Rik	1197	chr10
ENSMUSG00000022359.9	protein_coding	+	Wdyhv1	1322	chr15
ENSMUSG00000025785.4	protein_coding	+	Exosc7	1053	chr9
ENSMUSG00000045435.9	protein_coding	+	Tmem60	1147	chr5
ENSMUSG00000030532.5	protein_coding	+	Hddc3	860	chr7
ENSMUSG00000063021.3	protein_coding	-	Hist1h2ak	393	chr13
ENSMUSG00000044408.6	protein_coding	-	Sptssa	1363	chr12

ENSMUSG00000079508.6	protein_coding	+	Apoo	1255	chrX
ENSMUSG00000029918.9	protein_coding	-	Mrps33	1538	chr6
ENSMUSG00000049124.3	protein_coding	-	Gm8186	386	chr17
ENSMUSG00000025933.13	protein_coding	+	Tmem14a	1351	chr1
ENSMUSG00000019890.3	protein_coding	-	Nts	1176	chr10
ENSMUSG00000026966.6	protein_coding	-	Ssna1	862	chr2
ENSMUSG00000023064.4	protein_coding	-	Sncg	852	chr14
ENSMUSG00000032575.14	protein_coding	-	Manf	2464	chr9
ENSMUSG00000018287.10	protein_coding	-	Spag7	1159	chr11
ENSMUSG00000020738.14	protein_coding	-	Sumo2	1166	chr11
ENSMUSG00000035790.13	protein_coding	+	Cep19	1751	chr16
ENSMUSG00000043716.11	protein_coding	-	Rpl7	1163	chr1
ENSMUSG00000020778.10	protein_coding	+	Ten1	902	chr11
ENSMUSG00000030188.10	protein_coding	-	Magohb	1287	chr6
ENSMUSG00000041084.8	protein_coding	-	Ostc	1067	chr3
ENSMUSG00000068523.10	protein_coding	+	Gng5	2765	chr3
ENSMUSG00000021018.7	protein_coding	+	Polr2h	950	chr16
ENSMUSG00000078681.8	protein_coding	+	Tm2d3	1480	chr7
ENSMUSG00000037727.6	protein_coding	-	Avp	577	chr2
ENSMUSG00000004642.11	protein_coding	-	Slbp	2645	chr5
ENSMUSG00000035642.14	protein_coding	-	Aamdc	1003	chr7
ENSMUSG00000020460.13	protein_coding	-	Rps27a	886	chr11
ENSMUSG00000045237.5	protein_coding	+	1110012L19Rik	1094	chrX
ENSMUSG00000058546.8	protein_coding	-	Rpl23a	560	chr11
ENSMUSG00000019761.9	protein_coding	-	Krt10	2094	chr11
ENSMUSG00000036513.13	protein_coding	-	Commd2	2992	chr3
ENSMUSG00000025283.13	protein_coding	-	Sat1	1183	chrX
ENSMUSG00000052419.7	protein_coding	-	2610001J05Rik	3784	chr6
ENSMUSG00000040269.5	protein_coding	-	Mrps28	783	chr3
ENSMUSG00000004096.8	protein_coding	+	Cwc15	1111	chr9
ENSMUSG00000090258.5	protein_coding	+	Churc1	676	chr12
ENSMUSG00000025362.5	protein_coding	-	Rps26	447	chr10
ENSMUSG00000069272.5	protein_coding	-	Hist1h2ae	460	chr13
ENSMUSG00000057455.10	protein_coding	-	Rit2	3078	chr18
ENSMUSG00000020390.10	protein_coding	-	Ube2b	1878	chr11
ENSMUSG00000032757.4	protein_coding	-	Bet1	1516	chr6
ENSMUSG00000031697.9	protein_coding	+	Orc6	1653	chr8
ENSMUSG00000051355.16	protein_coding	-	Commd1	5391	chr11
ENSMUSG00000036578.6	protein_coding	-	Fxyd7	684	chr7
ENSMUSG00000032551.6	protein_coding	-	1110059G10Rik	3361	chr9
ENSMUSG00000021079.13	protein_coding	-	Timm9	1018	chr12
ENSMUSG00000028563.14	protein_coding	-	Tm2d1	1027	chr4
ENSMUSG00000014554.11	protein_coding	-	Dguok	1107	chr6
ENSMUSG00000020056.14	protein_coding	+	Ccdc53	1383	chr10
ENSMUSG00000030220.11	protein_coding	-	Arhgdib	1478	chr6
ENSMUSG0000002930.5	protein_coding	+	Ppp1r17	1738	chr6
ENSMUSG00000001666.8	protein_coding	-	Ddt	773	chr10

ENSMUSG00000067288.10	protein_coding	-	Rps28	588	chr17
ENSMUSG00000052456.8	protein_coding	-	Asna1	1250	chr8
ENSMUSG00000051851.5	protein_coding	+	Cxx1c	401	chrX
ENSMUSG00000021591.7	protein_coding	+	Glrx	1345	chr13
ENSMUSG00000010911.10	protein_coding	+	Apip	919	chr2
ENSMUSG00000038489.8	protein_coding	-	Polr2l	1650	chr7
ENSMUSG00000024446.11	protein_coding	-	Rpp21	729	chr17
ENSMUSG00000041841.7	protein_coding	+	Rpl37	867	chr15
ENSMUSG00000030611.8	protein_coding	+	Mrps11	1056	chr7
ENSMUSG00000038274.9	protein_coding	+	Fau	815	chr19
ENSMUSG00000028648.11	protein_coding	-	Ndufs5	860	chr4
ENSMUSG00000024800.7	protein_coding	+	Rpp30	1155	chr19
ENSMUSG00000042705.8	protein_coding	+	Commd10	1561	chr18
ENSMUSG00000027944.11	protein_coding	-	Hax1	1204	chr3
ENSMUSG00000051736.6	protein_coding	-	Fam229b	1044	chr10
ENSMUSG00000075266.4	protein_coding	-	Cenpw	1510	chr10
ENSMUSG00000075229.8	protein_coding	+	Ccdc58	1225	chr16
ENSMUSG00000035443.9	protein_coding	+	Thyn1	959	chr9
ENSMUSG00000078695.6	protein_coding	+	Cisd3	833	chr11
ENSMUSG00000021647.6	protein_coding	-	Cartpt	874	chr13
ENSMUSG00000079283.2	protein_coding	-	2310009B15Rik	565	chr1
ENSMUSG00000038646.11	protein_coding	+	Fam103a1	1534	chr7
ENSMUSG00000036764.9	protein_coding	+	Dnajc12	1289	chr10
ENSMUSG00000042670.5	protein_coding	+	Immp1l	955	chr2
ENSMUSG00000091625.6	protein_coding	-	Lsm5	494	chr6
ENSMUSG00000068855.3	protein_coding	-	Hist2h2ac	520	chr3
ENSMUSG00000048040.8	protein_coding	+	Arxes2	1532	chrX
ENSMUSG00000028495.12	protein_coding	-	Rps6	878	chr4
ENSMUSG00000029559.13	protein_coding	+	2210016L21Rik	2607	chr5
ENSMUSG00000060152.12	protein_coding	+	Pop5	1025	chr5
ENSMUSG00000075486.7	protein_coding	-	Commd6	1090	chr14
ENSMUSG00000032398.6	protein_coding	+	Snpc5	757	chr9
ENSMUSG00000069270.5	protein_coding	-	Hist1h2ac	476	chr13
ENSMUSG00000032060.9	protein_coding	+	Cryab	1185	chr9
ENSMUSG00000018923.11	protein_coding	+	Med11	932	chr11
ENSMUSG0000003824.10	protein_coding	+	Syce2	1704	chr8
ENSMUSG00000037772.10	protein_coding	+	Mrpl23	692	chr7
ENSMUSG00000014980.12	protein_coding	-	Tsen15	1133	chr1
ENSMUSG00000060802.8	protein_coding	+	B2m	860	chr2
ENSMUSG00000042747.10	protein_coding	+	Krtcap2	1250	chr3
ENSMUSG00000025794.8	protein_coding	+	Rpl14	935	chr9
ENSMUSG00000040370.11	protein_coding	+	Lym5	2682	chr6
ENSMUSG00000040204.6	protein_coding	+	2810417H13Rik	2188	chr9
ENSMUSG00000071654.5	protein_coding	-	Uqc3	829	chr19
ENSMUSG00000064326.10	protein_coding	+	Siva1	782	chr12
ENSMUSG0000004885.5	protein_coding	+	Crabp2	931	chr3
ENSMUSG00000019362.7	protein_coding	-	D8ErtD738e	659	chr8

ENSMUSG00000091931.5	protein_coding	-	AK010878	1417	chr12
ENSMUSG00000060703.10	protein_coding	-	Cd302	1354	chr2
ENSMUSG00000089847.5	protein_coding	+	Timm10b	3478	chr7
ENSMUSG00000001039.10	protein_coding	+	B9d1	817	chr11
ENSMUSG00000086158.2	protein_coding	-	Ccpg1os	711	chr9
ENSMUSG00000040767.8	protein_coding	+	Snrnp25	843	chr11
ENSMUSG00000092486.1	protein_coding	-	2610524H06Rik	947	chr5
ENSMUSG00000008668.12	protein_coding	-	Rps18	600	chr17
ENSMUSG00000046516.10	protein_coding	+	Cox17	3740	chr16
ENSMUSG00000039221.8	protein_coding	+	Rpl22l1	561	chr3
ENSMUSG00000024608.8	protein_coding	+	Rps14	940	chr18
ENSMUSG00000022018.7	protein_coding	-	Rgcc	918	chr14
ENSMUSG00000036315.11	protein_coding	-	Znrd1	793	chr17
ENSMUSG00000044709.5	protein_coding	-	Gemin7	1281	chr7
ENSMUSG00000032251.10	protein_coding	+	Irak1bp1	2158	chr9
ENSMUSG00000032403.8	protein_coding	-	2300009A05Rik	595	chr9
ENSMUSG00000061461.9	protein_coding	+	Smim20	953	chr5
ENSMUSG00000090110.6	protein_coding	-	Mtcp1	1310	chrX
ENSMUSG00000002395.12	protein_coding	+	Use1	1085	chr8
ENSMUSG00000036905.8	protein_coding	-	C1qb	1088	chr4
ENSMUSG00000061474.9	protein_coding	-	Mrps36	701	chr13
ENSMUSG00000015943.9	protein_coding	-	Bola1	1082	chr3
ENSMUSG00000068391.6	protein_coding	+	Chrac1	1090	chr15
ENSMUSG00000017716.13	protein_coding	+	Birc5	3402	chr11
ENSMUSG00000060938.12	protein_coding	+	Rpl26	714	chr11
ENSMUSG00000058351.9	protein_coding	-	Smim4	592	chr14
ENSMUSG00000061702.8	protein_coding	-	Tmem91	877	chr7
ENSMUSG00000021508.10	protein_coding	-	Cxcl14	1823	chr13
ENSMUSG00000025144.15	protein_coding	-	Stra13	966	chr11
ENSMUSG00000078572.3	protein_coding	+	1810043H04Rik	785	chr11
ENSMUSG00000036992.8	protein_coding	+	Nxt1	1116	chr2
ENSMUSG00000020018.6	protein_coding	-	Snrpf	861	chr10
ENSMUSG00000059518.12	protein_coding	-	Znhit1	1860	chr5
ENSMUSG00000038812.14	protein_coding	+	Trmt112	1133	chr19
ENSMUSG00000028044.6	protein_coding	-	Cks1b	1080	chr3
ENSMUSG00000091898.6	protein_coding	+	Tnnc1	721	chr14
ENSMUSG00000021607.8	protein_coding	+	Mrpl36	899	chr13
ENSMUSG00000020098.6	protein_coding	+	Pcbd1	809	chr10
ENSMUSG00000038900.15	protein_coding	+	Rpl12	1242	chr2
ENSMUSG00000020116.7	protein_coding	-	Pno1	1544	chr11
ENSMUSG00000045257.9	protein_coding	+	Morn2	644	chr17
ENSMUSG00000047656.8	protein_coding	+	Trpt1	1142	chr19
ENSMUSG00000007867.8	protein_coding	+	Ift43	775	chr12
ENSMUSG00000025102.12	protein_coding	-	3110040N11Rik	887	chr7
ENSMUSG00000060591.8	protein_coding	-	Ifitm2	627	chr7
ENSMUSG00000068220.5	protein_coding	+	Lgals1	800	chr15
ENSMUSG00000079427.8	protein_coding	-	Mthfsl	801	chr9

ENSMUSG00000048758.11	protein_coding	+	Rpl29	796	chr9
ENSMUSG00000025408.13	protein_coding	+	Ddit3	890	chr10
ENSMUSG00000042312.9	protein_coding	+	S100a13	715	chr3
ENSMUSG00000068184.6	protein_coding	-	Ndufaf2	679	chr13
ENSMUSG00000008540.9	protein_coding	+	Mgst1	1834	chr6
ENSMUSG00000001134.7	protein_coding	-	Uxt	875	chrX
ENSMUSG00000024854.3	protein_coding	+	Pold4	910	chr19
ENSMUSG00000034353.12	protein_coding	+	Ramp1	3022	chr1
ENSMUSG00000024907.6	protein_coding	-	Gal	712	chr19
ENSMUSG00000021496.10	protein_coding	+	Pcbd2	546	chr13
ENSMUSG00000027907.4	protein_coding	+	S100a11	511	chr3
ENSMUSG00000079317.8	protein_coding	+	Trappc2	1684	chrX
ENSMUSG00000069267.2	protein_coding	+	Hist1h3b	620	chr13
ENSMUSG00000028461.10	protein_coding	+	Ccdc107	892	chr4
ENSMUSG00000059363.8	protein_coding	-	Fxn	1114	chr19
ENSMUSG00000039672.10	protein_coding	+	Kcne2	1767	chr16
ENSMUSG00000024480.7	protein_coding	+	Ap3s1	1479	chr18
ENSMUSG00000006715.9	protein_coding	-	Gmnn	1189	chr13
ENSMUSG00000078941.7	protein_coding	+	Ak6	2324	chr13
ENSMUSG00000056313.5	protein_coding	-	1810011O10Rik	1805	chr8
ENSMUSG00000022748.7	protein_coding	-	Cmss1	930	chr16
ENSMUSG00000030922.9	protein_coding	+	Lymr1	1513	chr7
ENSMUSG00000001305.5	protein_coding	-	Rrp15	1321	chr1
ENSMUSG00000048747.12	protein_coding	-	E130114P18Rik	1246	chr4
ENSMUSG00000062210.11	protein_coding	+	Tnfaip8	4344	chr18
ENSMUSG00000009076.8	protein_coding	+	Zmat5	792	chr11
ENSMUSG00000035984.12	protein_coding	-	Nme5	843	chr18
ENSMUSG00000052565.6	protein_coding	+	Hist1h1d	744	chr13
ENSMUSG00000048416.13	protein_coding	+	Mlf1	1164	chr3
ENSMUSG00000029551.11	protein_coding	-	Psmg3	883	chr5
ENSMUSG00000079480.3	protein_coding	+	Pin4	489	chrX
ENSMUSG00000002804.3	protein_coding	-	Nudt14	793	chr12
ENSMUSG00000045731.5	protein_coding	-	Pnoc	2157	chr14
ENSMUSG00000056209.7	protein_coding	-	Npm3	888	chr19
ENSMUSG00000023330.10	protein_coding	+	Dtwd1	1350	chr2
ENSMUSG00000020895.12	protein_coding	+	Tmem107	1268	chr11
ENSMUSG00000075394.4	protein_coding	+	Hoxc4	2568	chr15
ENSMUSG00000045107.4	protein_coding	-	Saysd1	2294	chr14
ENSMUSG00000045031.16	protein_coding	-	Cetn4	3854	chr3
ENSMUSG00000029177.7	protein_coding	+	Cenpa	1641	chr5
ENSMUSG00000001827.9	protein_coding	-	Folr1	1575	chr7
ENSMUSG00000042770.7	protein_coding	-	Hebp1	1061	chr6
ENSMUSG00000032478.12	protein_coding	+	Nme6	1240	chr9
ENSMUSG00000078958.7	protein_coding	-	Atp6ap1l	1186	chr13
ENSMUSG00000061086.10	protein_coding	+	Myl4	1202	chr11