

Supplemental Table S1. Differentially expressed genes in Lgr5<sup>EGFP<sup>hi</sup></sup> cells between Lgr5<sup>Ctrl</sup> (CTRL) and Lgr5<sup>ΔKlf5</sup> (KO) mice

	BaseMean	FoldChange log2(KO/CTRL)	lfcSE	stat	pvalue	padj
ENSMUSG00000093954	144.7680481	-10.60229323	1.223905806	-8.662670913	4.61E-18	3.18E-16
ENSMUSG00000036242	101.9189156	-8.233066968	1.070210396	-7.69294243	1.44E-14	6.88E-13
ENSMUSG00000097169	10.53707307	-6.818102825	1.39033447	-4.903929932	9.39E-07	1.42E-05
ENSMUSG00000031385	10.24311212	-6.779178728	1.385823925	-4.891803791	9.99E-07	1.51E-05
ENSMUSG00000105703	3877.542502	-6.769218463	0.676807299	-10.00169247	1.50E-23	1.55E-21
ENSMUSG00000048153	9.458807896	-6.660019496	1.484162206	-4.487393271	7.21E-06	8.90E-05
ENSMUSG00000072723	93.1889255	-6.518650492	0.669252783	-9.74019183	2.03E-22	2.01E-20
ENSMUSG00000009588	177.1831369	-6.32242814	0.91567127	-6.904692054	5.03E-12	1.80E-10
ENSMUSG00000074011	5.660121412	-5.932007402	1.565932583	-3.788162701	0.000151765	0.001312848
ENSMUSG00000029618	5.235060201	-5.804587749	1.673265168	-3.469018456	0.000522364	0.00384463
ENSMUSG00000029541	47.151848	-5.79205552	0.741570035	-7.810530699	5.69E-15	2.84E-13
ENSMUSG00000111703	5.090816315	-5.781238557	1.643915552	-3.516749112	0.000436867	0.003309293
ENSMUSG00000054360	9.976177731	-5.758031169	1.386187545	-4.153861567	3.27E-05	0.000341953
ENSMUSG00000020405	4.537322949	-5.608133428	1.60340621	-3.497637337	0.000469399	0.003513953
ENSMUSG00000105995	4.285993998	-5.516488544	1.661465814	-3.320254017	0.000899356	0.006099919
ENSMUSG00000039883	4.016200973	-5.439408578	1.716184972	-3.169476873	0.001527136	0.009415721
ENSMUSG00000115737	3.933667244	-5.399866443	1.639399293	-3.29380796	0.0009884	0.006585691
ENSMUSG00000025014	3.857819101	-5.367985516	1.70362176	-3.150925658	0.001627539	0.009935875
ENSMUSG00000113920	3.814803689	-5.35377511	1.735044139	-3.085670843	0.002030935	0.01192499
ENSMUSG00000045232	6.811876195	-5.194409491	1.445959115	-3.59236263	0.000327693	0.00257683
ENSMUSG00000046095	12.25737981	-5.143171518	1.211747622	-4.244424683	2.19E-05	0.00023991
ENSMUSG00000094852	6.439450633	-5.118242229	1.554136596	-3.293302688	0.000990178	0.006593599
ENSMUSG00000099491	10.50576851	-4.930022731	1.26583233	-3.894688589	9.83E-05	0.00090348
ENSMUSG00000085719	10.276483	-4.884152212	1.247700716	-3.914522249	9.06E-05	0.000840308
ENSMUSG00000086268	5.016873548	-4.739739519	1.529692399	-3.098491908	0.001945083	0.011521193
ENSMUSG00000085403	4.984040816	-4.724490355	1.558826651	-3.030799065	0.002439075	0.013854766
ENSMUSG00000070298	4.91104722	-4.710856927	1.545226265	-3.048651859	0.002298707	0.013195229

ENSMUSG00000094092	4.524139186	-4.597636139	1.606741295	-2.861466343	0.004216863	0.021599036
ENSMUSG00000099630	4.257459847	-4.496992068	1.596381825	-2.81699027	0.004847599	0.024228049
ENSMUSG00000105206	7.763339694	-4.458412183	1.286193793	-3.466361141	0.000527554	0.003877714
ENSMUSG00000050953	7.405577809	-4.38760126	1.32842819	-3.302851667	0.00095707	0.006409495
ENSMUSG00000097950	3.930896832	-4.369492462	1.667766423	-2.619966682	0.008793836	0.039231756
ENSMUSG00000018822	1736.306765	-4.366911344	0.845480846	-5.165003281	2.40E-07	4.15E-06
ENSMUSG00000086163	14.13788212	-4.336687968	0.951526435	-4.557611651	5.17E-06	6.67E-05
ENSMUSG00000086816	3.758762554	-4.307230396	1.655576054	-2.601650577	0.009277633	0.040889424
ENSMUSG00000114804	3.732846078	-4.289749364	1.700098552	-2.523235702	0.011628043	0.04875296
ENSMUSG00000021871	13.5906183	-4.267124072	0.997798958	-4.276536908	1.90E-05	0.000211874
ENSMUSG00000041577	4134.565024	-4.266794124	0.45374392	-9.40352903	5.28E-21	4.65E-19
ENSMUSG00000010311	29.86987316	-4.221219584	0.640674088	-6.588715949	4.44E-11	1.40E-09
ENSMUSG00000091754	58.17004199	-4.099271565	0.469810262	-8.725376813	2.65E-18	1.85E-16
ENSMUSG00000035932	5.945802981	-4.05284532	1.380975415	-2.934770073	0.003337949	0.017894136
ENSMUSG00000104928	5.481528927	-3.933143327	1.401866066	-2.80564843	0.005021545	0.024912251
ENSMUSG00000111326	5.334472487	-3.921707452	1.418044659	-2.76557401	0.005682271	0.027512011
ENSMUSG00000107153	8.011472771	-3.915598323	1.171800674	-3.341522505	0.000833203	0.005706773
ENSMUSG00000066512	10.54339583	-3.90408963	1.057392022	-3.692187523	0.000222333	0.001838169
ENSMUSG00000000673	10.84940406	-3.902301976	1.011347051	-3.858519161	0.000114076	0.001027054
ENSMUSG00000097993	10.27854515	-3.855179989	1.008255693	-3.82361341	0.00013151	0.001161967
ENSMUSG00000042532	146.0301465	-3.837804158	0.302772763	-12.67552643	8.08E-37	2.05E-34
ENSMUSG00000059136	4.777482025	-3.75732993	1.462113803	-2.569793078	0.010175928	0.043970812
ENSMUSG00000023011	36.76852193	-3.644318748	0.58333579	-6.247377254	4.17E-10	1.15E-08
ENSMUSG00000085126	11.19714003	-3.638498468	0.956436746	-3.804222794	0.00014225	0.001243559
ENSMUSG00000060170	4.414819855	-3.630196679	1.480581089	-2.451872921	0.014211484	0.057176675
ENSMUSG00000086067	15.54796423	-3.607164123	0.789052028	-4.571516193	4.84E-06	6.28E-05
ENSMUSG00000114582	6.507359445	-3.58663418	1.212999108	-2.956831671	0.003108177	0.016906211
ENSMUSG00000111621	6.498202722	-3.560539132	1.225854665	-2.904536102	0.003677978	0.019285818
ENSMUSG00000026814	6.514954129	-3.557232184	1.314455498	-2.706240103	0.006804982	0.031902021

ENSMUSG00000070834	8.578730108	-3.54785222	1.020706163	-3.475880079	0.00050918	0.003769994
ENSMUSG00000005355	29.51121333	-3.51862759	0.593896805	-5.924644753	3.13E-09	7.61E-08
ENSMUSG00000100151	10.41071133	-3.508712031	0.946634017	-3.706513784	0.000210132	0.001751177
ENSMUSG00000082013	4.032926793	-3.486553481	1.551246505	-2.247581844	0.024602866	0.087899475
ENSMUSG00000028996	137.3956915	-3.479794943	0.388377629	-8.959823336	3.25E-19	2.42E-17
ENSMUSG00000073747	4.171129813	-3.474458803	1.52445739	-2.279144583	0.022658472	0.082314216
ENSMUSG00000035557	8.06144441	-3.464873054	1.207305467	-2.869922443	0.004105725	0.021141023
ENSMUSG00000032343	8.078854994	-3.454346881	1.067208271	-3.2368067	0.001208753	0.007757235
ENSMUSG00000020327	4.126560645	-3.449979581	1.515843245	-2.275947459	0.022849155	0.082866598
ENSMUSG00000079575	102.7705112	-3.428636085	0.308984077	-11.09648149	1.30E-28	2.02E-26
ENSMUSG00000031927	3.924137405	-3.400933373	1.522157975	-2.234284107	0.025464385	0.090324025
ENSMUSG00000090113	5.998702731	-3.388587221	1.324848434	-2.557716894	0.010536183	0.045186042
ENSMUSG00000109960	3.954729669	-3.380432378	1.573298061	-2.148628071	0.031663895	0.106844684
ENSMUSG00000110453	15.45346836	-3.374314119	0.791145139	-4.265101249	2.00E-05	0.000221361
ENSMUSG00000051726	48.11364058	-3.3385969	0.495337743	-6.740041416	1.58E-11	5.33E-10
ENSMUSG00000027840	5.53564319	-3.327113185	1.26138333	-2.637670171	0.008347773	0.037626634
ENSMUSG00000114694	16.49532806	-3.319333528	0.761037532	-4.361589787	1.29E-05	0.000150288
ENSMUSG00000030825	38.95264567	-3.317892932	0.519850831	-6.382394213	1.74E-10	5.10E-09
ENSMUSG00000113830	3.739688491	-3.316857093	1.492812116	-2.221885164	0.026291067	0.092610503
ENSMUSG00000036856	3.796117126	-3.304015328	1.624159441	-2.034292475	0.041922115	0.132638028
ENSMUSG00000105150	10.87893731	-3.297346638	0.915208744	-3.602835592	0.000314765	0.002489208
ENSMUSG00000038264	3088.240023	-3.29540001	0.190166465	-17.3290281	2.84E-67	2.26E-64
ENSMUSG00000081392	16.1660641	-3.279324997	0.761320758	-4.307415712	1.65E-05	0.000187648
ENSMUSG00000064588	5.426167091	-3.244565223	1.32498175	-2.448762199	0.014334805	0.057537886
ENSMUSG00000067613	8.860649241	-3.243004784	1.016315808	-3.190941986	0.001418098	0.008861023
ENSMUSG00000107220	10.93677537	-3.242119245	1.01145828	-3.205390976	0.001348791	0.008492206
ENSMUSG00000105251	13.86134318	-3.232848373	0.861302203	-3.75344259	0.000174422	0.001485222
ENSMUSG00000083685	7.122113192	-3.232643721	1.115175569	-2.898775593	0.003746229	0.019570076
ENSMUSG00000098203	5.266875249	-3.231868114	1.317210575	-2.45356982	0.014144608	0.056938429

ENSMUSG00000105699	12.17023178	-3.214584394	0.884344379	-3.634991605	0.00027799	0.002229215
ENSMUSG00000025479	660.0755345	-3.213451669	0.624643302	-5.144458701	2.68E-07	4.60E-06
ENSMUSG00000035273	470.3918886	-3.198448233	0.236884226	-13.50215795	1.52E-41	5.21E-39
ENSMUSG00000068086	5.215273839	-3.197757008	1.284135979	-2.490201239	0.012767078	0.05239577
ENSMUSG00000098552	6.634127189	-3.191449284	1.193014536	-2.675113493	0.007470396	0.034399606
ENSMUSG00000070563	8.231344422	-3.164859877	1.038606855	-3.047216433	0.002309713	0.013244772
ENSMUSG00000087248	6.487829281	-3.151925044	1.220173526	-2.583177701	0.009789489	0.042653278
ENSMUSG00000087265	9.703468555	-3.14278655	1.022614221	-3.07328657	0.002117151	0.012340454
ENSMUSG00000028238	9.794753366	-3.137064474	0.986111102	-3.181248509	0.001466418	0.009109355
ENSMUSG00000085081	13.11071121	-3.126015982	0.791231994	-3.950821006	7.79E-05	0.000739413
ENSMUSG00000105397	6.562232241	-3.124488682	1.115132079	-2.801900098	0.00508026	0.025165456
ENSMUSG00000048424	27.52618292	-3.116508312	0.620270524	-5.024434003	5.05E-07	8.10E-06
ENSMUSG00000042367	258.9795323	-3.11325182	0.309744018	-10.05104743	9.09E-24	9.79E-22
ENSMUSG00000073650	7.927012171	-3.095463539	1.049413415	-2.949708374	0.00318074	0.017216913
ENSMUSG00000107108	4.871308586	-3.082284234	1.29191443	-2.385826926	0.017040769	0.065703005
ENSMUSG00000093619	7.900524969	-3.080357723	1.020833556	-3.017492622	0.002548752	0.014408043
ENSMUSG00000029570	2098.928665	-3.05986401	0.167948194	-18.21909446	3.64E-74	4.51E-71
ENSMUSG00000020734	41.11311147	-3.052624556	0.475076907	-6.425537652	1.31E-10	3.92E-09
ENSMUSG00000086418	4.824607462	-3.049878361	1.365771761	-2.233080554	0.025543633	0.090520984
ENSMUSG00000108033	6.3226472	-3.04977431	1.150922543	-2.649851921	0.008052706	0.036530388
ENSMUSG00000018656	6.231637286	-3.045629999	1.2395389	-2.457066896	0.01400766	0.05651978
ENSMUSG00000031465	750.0846487	-3.044480679	0.17188038	-17.71278769	3.34E-70	3.24E-67
ENSMUSG00000061397	24.92746523	-3.042877548	0.626595805	-4.856204784	1.20E-06	1.77E-05
ENSMUSG00000044084	15.72854708	-3.03867069	0.787163701	-3.860277965	0.000113258	0.001020925
ENSMUSG00000050761	543.7412417	-3.035881956	0.1747273	-17.37497205	1.28E-67	1.05E-64
ENSMUSG00000086010	12.05645586	-3.03347256	0.92738782	-3.270985982	0.001071732	0.007048275
ENSMUSG00000046204	14.90601991	-3.031159077	0.970608137	-3.122948348	0.001790492	0.010739579
ENSMUSG00000083017	6.144356009	-3.027925889	1.15039527	-2.632074354	0.008486529	0.038118445
ENSMUSG00000021294	64.71471115	-3.019040503	0.399071216	-7.565167266	3.87E-14	1.76E-12

ENSMUSG00000046961	12.1653666	-3.016363621	0.868950142	-3.471273525	0.000517996	0.003821313
ENSMUSG00000044453	12.21157667	-3.013022248	0.816252693	-3.691286133	0.000223123	0.001843596
ENSMUSG00000053654	10.70638783	-2.995290644	1.00075273	-2.993037695	0.002762156	0.015376647
ENSMUSG00000112166	6.073183654	-2.982623591	1.159101441	-2.573220501	0.010075699	0.043605311
ENSMUSG00000023336	13.36116356	-2.979163018	0.760307048	-3.91836828	8.92E-05	0.000829776
ENSMUSG00000087064	16.35964247	-2.973036072	0.736950074	-4.034243534	5.48E-05	0.000541736
ENSMUSG00000066513	5.910848585	-2.972119718	1.192475938	-2.49239387	0.012688524	0.052135625
ENSMUSG00000063851	4.411326851	-2.954741658	1.355421995	-2.179942239	0.029261743	0.100457017
ENSMUSG00000106913	5.837132398	-2.953698556	1.170352691	-2.523767903	0.011610456	0.048696196
ENSMUSG00000028039	490.846535	-2.952075203	0.175460287	-16.82474856	1.61E-63	1.09E-60
ENSMUSG00000029093	2161.300895	-2.951183434	0.159973529	-18.4479486	5.42E-76	8.63E-73
ENSMUSG00000070645	5.934069425	-2.937343463	1.169701003	-2.51119171	0.012032433	0.050053217
ENSMUSG00000043460	25.46824421	-2.937215541	0.685681292	-4.283645444	1.84E-05	0.000206142
ENSMUSG00000035165	8017.73329	-2.934508976	0.153041879	-19.17454884	6.04E-82	1.22E-78
ENSMUSG00000030409	2673.204851	-2.930975375	0.122455861	-23.93495377	1.33E-126	5.91E-123
ENSMUSG00000046804	3353.472525	-2.929204747	0.160896037	-18.20557424	4.66E-74	5.47E-71
ENSMUSG00000104529	13.19606028	-2.922638745	0.786880499	-3.714209146	0.00020384	0.001704896
ENSMUSG00000003227	11.68467908	-2.920480475	0.819781065	-3.562512726	0.000367322	0.002848279
ENSMUSG00000068407	11.65275762	-2.906792828	0.858454051	-3.386078528	0.000708991	0.004975207
ENSMUSG00000053522	7.187660588	-2.890761723	1.079475962	-2.677930612	0.007407856	0.034196358
ENSMUSG00000081771	14.18715808	-2.883744263	0.741722783	-3.887900342	0.000101115	0.000925685
ENSMUSG00000108228	7.173488893	-2.879741369	1.059340988	-2.718427212	0.006559309	0.030925823
ENSMUSG00000103015	78.10200484	-2.871591627	0.341815145	-8.40100759	4.43E-17	2.75E-15
ENSMUSG00000068417	562.8844365	-2.870867011	0.469321131	-6.117063183	9.53E-10	2.49E-08
ENSMUSG00000058755	7.020960569	-2.852987134	1.2013809	-2.374756527	0.017560529	0.067276647
ENSMUSG00000087206	4.170260685	-2.850334945	1.301169785	-2.19059417	0.028481173	0.098388832
ENSMUSG00000040543	30.54440701	-2.847871818	0.500351594	-5.691741274	1.26E-08	2.75E-07
ENSMUSG00000085483	87.71371575	-2.845900221	0.340101068	-8.367807361	5.87E-17	3.59E-15
ENSMUSG00000110930	8.373846084	-2.840965666	0.992932539	-2.861186994	0.00422058	0.021602745

ENSMUSG00000061780	23.71940648	-2.83737309	0.626162881	-4.531365841	5.86E-06	7.42E-05
ENSMUSG00000106173	4.08939757	-2.833873174	1.357543646	-2.087500599	0.036842907	0.120086768
ENSMUSG00000102914	4.059000097	-2.829156729	1.343084236	-2.106462613	0.035164187	0.115851166
ENSMUSG00000026432	8.081135522	-2.828022945	1.045850972	-2.704040079	0.006850203	0.032073561
ENSMUSG00000047747	294.6444394	-2.820692618	0.236070367	-11.94852474	6.61E-33	1.34E-30
ENSMUSG00000106191	5.245032795	-2.815389789	1.32294522	-2.128122727	0.033326909	0.111244336
ENSMUSG00000108428	8.202584963	-2.810464179	1.030430997	-2.727464709	0.006382308	0.030231916
ENSMUSG00000072423	5.348690416	-2.807218358	1.274525885	-2.202558921	0.027625852	0.096137322
ENSMUSG00000115456	6.607796815	-2.796081025	1.081185548	-2.586125046	0.009706171	0.042386463
ENSMUSG00000048992	2534.739011	-2.788182887	0.15291735	-18.23326715	2.81E-74	3.92E-71
ENSMUSG00000067614	6.643476682	-2.786447563	1.036871933	-2.687359425	0.007201941	0.03337014
ENSMUSG00000038216	8.068407771	-2.786428377	1.007508905	-2.765661288	0.005680751	0.027510623
ENSMUSG00000057193	668.5620603	-2.783563011	0.177336955	-15.6964633	1.60E-55	8.11E-53
ENSMUSG00000036264	189.1076321	-2.779378461	0.725824882	-3.829268644	0.000128525	0.001141924
ENSMUSG00000008813	4.023926897	-2.774952242	1.36155593	-2.038074369	0.041542496	0.131839932
ENSMUSG00000066368	116.4529558	-2.773567525	0.359022938	-7.725321224	1.12E-14	5.42E-13
ENSMUSG00000063730	28.82201573	-2.773533502	0.536032941	-5.174184814	2.29E-07	3.98E-06
ENSMUSG00000028460	9.262418561	-2.770740205	1.02186336	-2.71145861	0.00669879	0.031490245
ENSMUSG00000082404	7.880200452	-2.769202901	0.950608252	-2.913085275	0.003578769	0.018876565
ENSMUSG00000109766	5.231887056	-2.763175981	1.249490597	-2.211441998	0.027005244	0.094662677
ENSMUSG00000110561	6.793503289	-2.758923012	1.203262144	-2.292869451	0.021855522	0.079993435
ENSMUSG00000097226	5.055416173	-2.737515842	1.225260255	-2.23423214	0.025467803	0.090324025
ENSMUSG00000031391	2666.855135	-2.734407495	0.131249428	-20.83367173	2.14E-96	4.78E-93
ENSMUSG00000092304	5.159341216	-2.733110131	1.23617338	-2.21094401	0.027039715	0.094760878
ENSMUSG00000037843	34.42093312	-2.7292181	0.510118882	-5.350160902	8.79E-08	1.67E-06
ENSMUSG00000074280	3.817969812	-2.722107018	1.376141227	-1.978072428	0.047920537	0.14651438
ENSMUSG00000086826	9.132541223	-2.721346449	0.932390956	-2.918675295	0.003515222	0.018633934
ENSMUSG00000099507	44.43753872	-2.718857926	0.435692679	-6.240311253	4.37E-10	1.20E-08
ENSMUSG00000085642	16.81050624	-2.717808374	0.73820053	-3.681666787	0.000231714	0.001902598

ENSMUSG00000111986	6.296353517	-2.715950075	1.097538382	-2.474583231	0.013339174	0.054247688
ENSMUSG00000026639	2005.570774	-2.711721697	0.157344009	-17.23434981	1.47E-66	1.13E-63
ENSMUSG00000085774	7.582856217	-2.706401314	1.07580458	-2.515699752	0.011879634	0.049565521
ENSMUSG00000029055	5930.264075	-2.706167881	0.095791989	-28.25046135	1.40E-175	1.57E-171
ENSMUSG00000033855	56.00409891	-2.705487976	0.433458775	-6.241626961	4.33E-10	1.19E-08
ENSMUSG00000086933	30.15302734	-2.702520712	0.503775898	-5.36452959	8.12E-08	1.56E-06
ENSMUSG00000097315	18.96354232	-2.702398106	0.623412831	-4.334845181	1.46E-05	0.000168108
ENSMUSG00000038756	10.0010897	-2.696521701	0.840130922	-3.209644631	0.001328992	0.008381743
ENSMUSG00000029778	5.043556768	-2.695145937	1.321550041	-2.039382432	0.041411874	0.131481522
ENSMUSG00000084956	13.89109897	-2.694585174	0.819554249	-3.287866761	0.001009496	0.006694252
ENSMUSG00000026424	26.43677798	-2.694277853	0.531835935	-5.065994371	4.06E-07	6.64E-06
ENSMUSG00000041141	24.79221702	-2.692585194	0.598668778	-4.497620877	6.87E-06	8.55E-05
ENSMUSG00000037686	364.3653939	-2.684174222	0.211869655	-12.66898848	8.78E-37	2.20E-34
ENSMUSG00000107430	6.210401499	-2.674050959	1.12560234	-2.375662225	0.01751749	0.067157908
ENSMUSG00000115431	8.526146834	-2.673314178	1.013913529	-2.636629359	0.008373427	0.037709166
ENSMUSG00000040364	23.49658389	-2.671615467	0.659102559	-4.05341389	5.05E-05	0.00050614
ENSMUSG00000097668	27.3681725	-2.662532006	0.562132278	-4.736486605	2.17E-06	3.04E-05
ENSMUSG00000045709	71.11749854	-2.660821314	0.420884734	-6.321971552	2.58E-10	7.33E-09
ENSMUSG00000059668	25.83824008	-2.659736325	0.699598391	-3.801804519	0.000143646	0.001252816
ENSMUSG00000030806	13.36957123	-2.658549428	0.763342237	-3.482775222	0.000496245	0.003687689
ENSMUSG00000061911	4.73774333	-2.656005304	1.354840435	-1.96038237	0.049951115	0.150983981
ENSMUSG00000081459	5.015667246	-2.653849358	1.22926899	-2.158884165	0.030859155	0.104635853
ENSMUSG00000034656	3347.180006	-2.653659861	0.165994399	-15.98644219	1.59E-57	8.64E-55
ENSMUSG00000108820	15.60920274	-2.65264745	0.789216588	-3.361114669	0.000776286	0.005357946
ENSMUSG00000027420	148.9721639	-2.651423174	0.345104772	-7.682951356	1.55E-14	7.42E-13
ENSMUSG00000021604	12.44945111	-2.650179733	0.834487473	-3.175817277	0.00149415	0.009243009
ENSMUSG00000047641	45.49546956	-2.64610983	0.528065383	-5.010951131	5.42E-07	8.60E-06
ENSMUSG00000036862	93.83651452	-2.644668068	0.335947163	-7.872273861	3.48E-15	1.79E-13
ENSMUSG00000083903	9.8043682	-2.642806475	0.845544779	-3.125566547	0.001774629	0.010650163

ENSMUSG00000052353	153.6100192	-2.641615016	0.317483561	-8.320478097	8.76E-17	5.17E-15
ENSMUSG00000002057	7.329439536	-2.636589101	0.982427034	-2.683750559	0.00728014	0.033697469
ENSMUSG00000026237	4.935338106	-2.635220397	1.208315914	-2.180903493	0.029190555	0.100273964
ENSMUSG00000103226	5.953262292	-2.628933111	1.143247356	-2.299531328	0.021474787	0.078884733
ENSMUSG00000112426	10.82339845	-2.628469061	0.845451333	-3.108953713	0.001877511	0.011183328
ENSMUSG00000112943	9.697856032	-2.627732938	0.930663713	-2.823504238	0.00475018	0.02381069
ENSMUSG00000110359	23.95147675	-2.622665398	0.57598397	-4.553365261	5.28E-06	6.77E-05
ENSMUSG00000050511	11.90523127	-2.614534119	0.763382602	-3.424932809	0.000614951	0.00441469
ENSMUSG00000082145	6.107877536	-2.613563984	1.310734768	-1.993968611	0.046155485	0.142564192
ENSMUSG00000013562	4.786229815	-2.613468425	1.25311951	-2.085569975	0.037017593	0.120444901
ENSMUSG00000109049	21.25391005	-2.611408412	0.694825316	-3.758366816	0.000171026	0.001460203
ENSMUSG00000107733	4.661822555	-2.608463819	1.280862814	-2.036489615	0.041701215	0.132148418
ENSMUSG00000028644	10.81864262	-2.604361537	0.825755007	-3.153915527	0.001610957	0.00986164
ENSMUSG00000106614	4.77954423	-2.603062627	1.230872608	-2.114810753	0.03444608	0.114092088
ENSMUSG00000004948	14.3512804	-2.599693671	0.696991085	-3.729880805	0.00019157	0.001613982
ENSMUSG00000049538	63.91933285	-2.591854221	0.426186639	-6.081500418	1.19E-09	3.08E-08
ENSMUSG00000020434	111.9336098	-2.58898265	0.329302301	-7.862024168	3.78E-15	1.92E-13
ENSMUSG00000032278	138.4769967	-2.588269998	0.32482426	-7.968216398	1.61E-15	8.53E-14
ENSMUSG00000050600	4.753627754	-2.58664077	1.270553639	-2.035837521	0.041766673	0.132271695
ENSMUSG00000022619	99.11722595	-2.584773584	0.304217643	-8.496461793	1.95E-17	1.25E-15
ENSMUSG00000022096	2156.265899	-2.584279207	0.141975193	-18.20232929	4.95E-74	5.51E-71
ENSMUSG00000069919	12.69231402	-2.569890328	0.904052671	-2.84263341	0.00447425	0.022625907
ENSMUSG00000033872	50.20054764	-2.560975025	0.424880805	-6.027514063	1.67E-09	4.21E-08
ENSMUSG00000055407	16.29642141	-2.558835963	0.652745147	-3.920114881	8.85E-05	0.000824818
ENSMUSG00000028773	10.60843527	-2.556210941	0.877350639	-2.913556824	0.003573368	0.018865928
ENSMUSG00000031906	6303.726076	-2.555091784	0.15911719	-16.05792424	5.03E-58	2.88E-55
ENSMUSG00000063971	11.85738745	-2.553596669	0.914970425	-2.790906242	0.00525607	0.025863991
ENSMUSG00000107509	5.843179588	-2.547885251	1.121553612	-2.271746284	0.023101839	0.083630594
ENSMUSG00000028078	77.77707241	-2.544322061	0.40674358	-6.255346579	3.97E-10	1.10E-08



ENSMUSG00000062073	10.30827447	-2.543076296	0.866282654	-2.935619551	0.003328823	0.017858091
ENSMUSG00000114962	15.94979104	-2.53996146	0.748286399	-3.394370741	0.000687865	0.004849851
ENSMUSG00000024972	813.1404479	-2.539516563	0.152498535	-16.65272758	2.89E-62	1.84E-59
ENSMUSG00000086373	8.082816401	-2.537532853	0.908224155	-2.793949973	0.005206853	0.025681914
ENSMUSG00000048013	5.764136781	-2.537202702	1.289926666	-1.966935617	0.049190634	0.149414373
ENSMUSG00000097604	105.4937706	-2.536320903	0.320822448	-7.905684031	2.66E-15	1.38E-13
ENSMUSG00000078796	9.181792381	-2.534989397	0.861489388	-2.942566018	0.003255044	0.017538229
ENSMUSG00000038255	71.48913947	-2.533869057	0.41971642	-6.037097754	1.57E-09	3.98E-08
ENSMUSG00000001555	13.702332	-2.531946945	0.736893594	-3.435973614	0.000590428	0.004268118
ENSMUSG00000068964	6.82936963	-2.528574849	1.119696998	-2.258267062	0.023929014	0.085974054
ENSMUSG00000064691	6.945884205	-2.526343057	1.066803218	-2.368143454	0.017877603	0.068245193
ENSMUSG00000103594	7.96589001	-2.524072966	0.924947455	-2.728882547	0.006354933	0.030134248
ENSMUSG00000072214	12718.70871	-2.519326673	0.105864189	-23.79772319	3.53E-125	1.31E-121
ENSMUSG00000106659	6.793197842	-2.509967873	0.98273805	-2.554055858	0.010647617	0.045541334
ENSMUSG00000071015	5.603175197	-2.500655007	1.246359266	-2.006367726	0.044817029	0.139492612
ENSMUSG00000000214	32.23375652	-2.499833014	0.481017161	-5.196972613	2.03E-07	3.57E-06
ENSMUSG00000006642	34.57202987	-2.499320526	0.498076836	-5.0179417	5.22E-07	8.33E-06
ENSMUSG00000031160	7.765251198	-2.497125848	1.121089275	-2.227410344	0.025919862	0.091548755
ENSMUSG00000081309	5.69688168	-2.496125926	1.13871798	-2.192049277	0.028375949	0.098186506
ENSMUSG00000086389	9.026676932	-2.49075265	0.914838488	-2.722614627	0.006476756	0.030620762
ENSMUSG00000055629	1197.670826	-2.485250939	0.129859451	-19.13800583	1.22E-81	2.26E-78
ENSMUSG00000115617	10.03863819	-2.47992003	0.916902323	-2.704671989	0.006837187	0.032032794
ENSMUSG00000039521	5.440805119	-2.479249772	1.187366539	-2.088023951	0.036795674	0.119985426
ENSMUSG00000048373	2147.826484	-2.478821267	0.152962018	-16.20546917	4.61E-59	2.86E-56
ENSMUSG00000087314	9.853619358	-2.476949755	0.852224282	-2.906452922	0.003655519	0.019190614
ENSMUSG00000113424	6.491864531	-2.472050238	1.207758368	-2.046808618	0.040676879	0.129646289
ENSMUSG00000038020	678.5802965	-2.469521359	0.203053548	-12.16192173	4.96E-34	1.11E-31
ENSMUSG00000020624	8.512131906	-2.467107068	1.008187533	-2.447071588	0.014402223	0.057750022
ENSMUSG00000081732	18.71024974	-2.466907386	0.629865226	-3.916563871	8.98E-05	0.000835311

ENSMUSG00000015093	5.396004409	-2.465460142	1.139735499	-2.163186233	0.030526859	0.103682527
ENSMUSG00000020019	642.4562766	-2.462800876	0.193951456	-12.69802727	6.06E-37	1.57E-34
ENSMUSG00000033287	24.14786113	-2.460684291	0.554238268	-4.439758916	9.01E-06	0.000108271
ENSMUSG00000112478	41.89095699	-2.45919517	0.441293002	-5.572703758	2.51E-08	5.20E-07
ENSMUSG00000029813	10.88351071	-2.454876689	0.784422841	-3.129532391	0.001750848	0.01054433
ENSMUSG00000031085	8.631298825	-2.453742538	0.896162442	-2.738055539	0.006180364	0.029431623
ENSMUSG00000054161	4586.742323	-2.451068429	0.129060834	-18.99157445	2.00E-80	3.43E-77
ENSMUSG00000114591	6.281427319	-2.449254873	1.212248397	-2.020423272	0.043339501	0.135899075
ENSMUSG00000039059	33.92764139	-2.446046025	0.522614598	-4.680401266	2.86E-06	3.89E-05
ENSMUSG00000109397	8.783825468	-2.43905826	1.009899353	-2.415149839	0.015728738	0.061798199
ENSMUSG00000086550	6.285908316	-2.435197565	1.113794295	-2.186397952	0.028786503	0.099160922
ENSMUSG00000022603	9.751059515	-2.435012587	0.822751961	-2.959594996	0.003080437	0.016804508
ENSMUSG00000088148	10.87576422	-2.433475281	0.91321292	-2.664740312	0.007704779	0.035278073
ENSMUSG00000038390	20.20476888	-2.422408918	0.606797679	-3.992119619	6.55E-05	0.00063689
ENSMUSG00000029168	670.2901943	-2.418714375	0.257711197	-9.385367814	6.27E-21	5.46E-19
ENSMUSG00000081285	25.45907194	-2.413574574	0.530099614	-4.553058539	5.29E-06	6.78E-05
ENSMUSG00000097294	12.83415868	-2.412297363	0.818944826	-2.945616465	0.003223118	0.017387216
ENSMUSG00000000753	12.77010435	-2.397281017	0.822331451	-2.91522477	0.003554325	0.01879208
ENSMUSG00000086155	11.39835901	-2.395680283	0.889561275	-2.693103161	0.007079036	0.032923793
ENSMUSG00000048776	146.310376	-2.394609994	0.300924113	-7.957521153	1.76E-15	9.21E-14
ENSMUSG00000024620	100.9068823	-2.392069524	0.300340413	-7.964527655	1.66E-15	8.74E-14
ENSMUSG00000025064	8.364316183	-2.39065506	0.880077134	-2.716415379	0.006599306	0.031101253
ENSMUSG00000111014	25.04678227	-2.388290341	0.614390253	-3.88725298	0.000101385	0.000927775
ENSMUSG00000070304	2864.118474	-2.382286903	0.147164724	-16.18789368	6.14E-59	3.70E-56
ENSMUSG00000082474	5.187315806	-2.375305966	1.180415147	-2.012263205	0.044192199	0.137932852
ENSMUSG00000097720	6.17191534	-2.371753478	1.09139039	-2.173148581	0.029769136	0.101635258
ENSMUSG00000083962	40.6556905	-2.366813077	0.421025131	-5.621548226	1.89E-08	4.01E-07
ENSMUSG00000113883	59.18906419	-2.365837727	0.366688363	-6.451902935	1.10E-10	3.33E-09
ENSMUSG00000040035	265.5999364	-2.364121135	0.205900526	-11.4818606	1.63E-30	2.95E-28

ENSMUSG00000101162	16.29392462	-2.353664372	0.669146195	-3.517414264	0.000435773	0.003303255
ENSMUSG00000073739	92.99254058	-2.348022838	0.328166633	-7.154971285	8.37E-13	3.29E-11
ENSMUSG00000065574	7.094875667	-2.345217504	1.03503725	-2.265829085	0.02346185	0.084653334
ENSMUSG00000105402	6.252851148	-2.343966162	1.120786013	-2.09135922	0.036495875	0.119410428
ENSMUSG00000114163	6.219866979	-2.343234648	1.078236877	-2.173209523	0.029764551	0.101635165
ENSMUSG00000091373	8.186862331	-2.335779401	0.969296745	-2.409767095	0.015962707	0.062475313
ENSMUSG00000031825	5.138445974	-2.332967615	1.128597917	-2.067137977	0.038721154	0.12498487
ENSMUSG00000006542	15.40470007	-2.325546284	0.715632979	-3.249635431	0.00115553	0.007486776
ENSMUSG00000030911	5.926476689	-2.31971896	1.134198445	-2.04524964	0.040830253	0.130040391
ENSMUSG00000032988	47.05932015	-2.318317611	0.499104751	-4.644952005	3.40E-06	4.53E-05
ENSMUSG00000086924	16.23653974	-2.317018813	0.735924725	-3.148445398	0.001641414	0.010012355
ENSMUSG00000020867	20.36561863	-2.316044677	0.617881637	-3.748363019	0.000177993	0.001511005
ENSMUSG00000039747	1206.090714	-2.314632831	0.130994344	-17.66971585	7.18E-70	6.67E-67
ENSMUSG00000115778	9.097702814	-2.310106806	0.843167709	-2.739795157	0.006147749	0.029295073
ENSMUSG00000032323	14.13248418	-2.309028071	0.774560095	-2.981083181	0.002872308	0.015865964
ENSMUSG00000092518	33.91299198	-2.30793348	0.467789805	-4.933697692	8.07E-07	1.24E-05
ENSMUSG00000073608	41.18775548	-2.296533082	0.475022633	-4.834576128	1.33E-06	1.95E-05
ENSMUSG00000097686	6.15222847	-2.291834203	1.149324337	-1.994070889	0.046144308	0.142549413
ENSMUSG00000025083	26.69834285	-2.287430072	0.499575417	-4.578748258	4.68E-06	6.08E-05
ENSMUSG00000037005	274.2390413	-2.286233385	0.206724954	-11.05930047	1.98E-28	2.96E-26
ENSMUSG00000018727	20.46125303	-2.284271596	0.763500393	-2.991840762	0.002773009	0.015425509
ENSMUSG00000024973	10.84091955	-2.279670946	0.774136534	-2.944791835	0.00323172	0.017429405
ENSMUSG00000065483	4.942599808	-2.277220887	1.149514555	-1.981028319	0.047588098	0.145837869
ENSMUSG00000073179	19.51595566	-2.271456397	0.655455884	-3.465460383	0.000529325	0.003887689
ENSMUSG00000028357	1612.885637	-2.264566818	0.197531705	-11.4643207	1.99E-30	3.53E-28
ENSMUSG00000084983	20.6243178	-2.264223638	0.565285576	-4.005450931	6.19E-05	0.000605446
ENSMUSG00000027452	4432.513498	-2.263467041	0.125039176	-18.10206306	3.07E-73	3.26E-70
ENSMUSG00000054342	4293.509263	-2.258547976	0.133268218	-16.94738627	2.01E-64	1.40E-61
ENSMUSG00000087321	9.636536533	-2.258509215	0.895136358	-2.523089577	0.011632876	0.048764056

ENSMUSG00000097004	81.99519854	-2.256942427	0.435956852	-5.176985787	2.25E-07	3.93E-06
ENSMUSG00000033837	6.848454047	-2.256195084	0.95316231	-2.367062838	0.017929888	0.068421362
ENSMUSG00000020125	54.01474696	-2.255992096	0.489530621	-4.608480037	4.06E-06	5.36E-05
ENSMUSG00000033227	13.44732058	-2.255451478	0.836536453	-2.696178357	0.00701401	0.032669055
ENSMUSG00000017417	5.834179631	-2.255381713	1.061561775	-2.124588287	0.033620982	0.111935684
ENSMUSG00000026125	5.750121853	-2.253860874	1.126113648	-2.001450632	0.045343849	0.140759072
ENSMUSG00000052026	441.7181979	-2.250627272	0.201150831	-11.18875451	4.63E-29	7.48E-27
ENSMUSG00000020469	87.60596524	-2.246676307	0.333696606	-6.732691513	1.67E-11	5.60E-10
ENSMUSG00000073559	9.85157166	-2.245221879	0.905350004	-2.479949047	0.013140116	0.05364044
ENSMUSG00000056481	8.827337762	-2.243646029	0.900490412	-2.491582364	0.012717548	0.052221328
ENSMUSG00000024223	15.39725381	-2.243034589	0.712796189	-3.146810582	0.001650619	0.010052006
ENSMUSG00000023039	5672.073968	-2.240348588	0.153733198	-14.57296552	4.17E-48	1.69E-45
ENSMUSG00000007877	21.79777241	-2.236378777	0.682717381	-3.275702129	0.001053997	0.006954195
ENSMUSG00000033192	15.47398352	-2.236367073	0.677228112	-3.30223603	0.000959173	0.006418163
ENSMUSG00000037379	9.595797531	-2.233270766	0.852442205	-2.619850064	0.008796843	0.039231756
ENSMUSG00000062410	45.65710987	-2.222017791	0.451518884	-4.921206774	8.60E-07	1.32E-05
ENSMUSG00000082101	19.23602077	-2.219874791	0.585614016	-3.790679064	0.000150236	0.001302142
ENSMUSG00000083485	10.63272206	-2.219677122	0.807859908	-2.747601532	0.006003292	0.028735654
ENSMUSG00000064147	31.1763283	-2.219146058	0.584666911	-3.795573202	0.000147303	0.001279703
ENSMUSG00000087486	29.75660772	-2.218044245	0.49898502	-4.445111891	8.78E-06	0.000105895
ENSMUSG00000103685	7.597494307	-2.217449338	0.95490367	-2.322170716	0.020223745	0.075130725
ENSMUSG00000085723	16.25505431	-2.207016024	0.667681782	-3.305490856	0.000948102	0.006357072
ENSMUSG00000001588	147.672568	-2.206302239	0.297018007	-7.428176707	1.10E-13	4.71E-12
ENSMUSG00000063239	554.9222388	-2.206110811	0.494769643	-4.45886453	8.24E-06	0.000100136
ENSMUSG00000037509	272.2340289	-2.206044853	0.267085503	-8.259695234	1.46E-16	8.42E-15
ENSMUSG00000104945	11.15380595	-2.200962069	0.817298971	-2.69297056	0.007081852	0.032930022
ENSMUSG00000095681	36.66265504	-2.200711	0.531811761	-4.138139019	3.50E-05	0.000363909
ENSMUSG00000029026	13.15458125	-2.198942615	0.691186002	-3.181405017	0.001465626	0.009106971
ENSMUSG00000021553	399.2032473	-2.198463046	0.188787617	-11.64516551	2.43E-31	4.69E-29

ENSMUSG00000031510	5.596907689	-2.198239965	1.118032884	-1.96616754	0.049279261	0.149581706
ENSMUSG00000020916	18.0231174	-2.19340012	0.638651073	-3.43442642	0.000593809	0.004289777
ENSMUSG00000034818	75.53828379	-2.192846934	0.381646143	-5.745759457	9.15E-09	2.06E-07
ENSMUSG00000059898	6.762726588	-2.192349566	1.073564309	-2.042122255	0.041139406	0.130858635
ENSMUSG00000074467	12.27809143	-2.190992526	0.780826297	-2.805992237	0.00501619	0.024892313
ENSMUSG00000081376	6.477690753	-2.189419036	1.088430298	-2.011538121	0.044268648	0.138132799
ENSMUSG00000044041	66.18518635	-2.18783991	0.378086093	-5.786618312	7.18E-09	1.65E-07
ENSMUSG00000024619	9576.666527	-2.18472887	0.100474452	-21.74412319	7.85E-105	2.50E-101
ENSMUSG00000050463	267.5839655	-2.180781008	0.337672575	-6.458271018	1.06E-10	3.20E-09
ENSMUSG00000066714	16.63314346	-2.178340351	0.68501273	-3.179999809	0.001472751	0.009138517
ENSMUSG00000112975	109.7092765	-2.177379225	0.317576349	-6.856238601	7.07E-12	2.48E-10
ENSMUSG00000085179	12.28215227	-2.176606715	0.849374893	-2.562598368	0.010389215	0.044693266
ENSMUSG00000063929	37.59159368	-2.176177804	0.514946458	-4.226027332	2.38E-05	0.000257493
ENSMUSG00000023274	45.3800852	-2.175951911	0.402738871	-5.402885261	6.56E-08	1.28E-06
ENSMUSG00000042766	133.1788352	-2.174462993	0.326564192	-6.658608167	2.76E-11	9.01E-10
ENSMUSG00000028278	1679.176799	-2.168607536	0.167698627	-12.93157596	2.99E-38	8.22E-36
ENSMUSG00000021298	12.19669878	-2.165935758	0.834062965	-2.596849216	0.009408321	0.041342853
ENSMUSG00000019987	66.48854807	-2.163295937	0.339059438	-6.380285271	1.77E-10	5.16E-09
ENSMUSG00000082850	15.83304418	-2.159810855	0.710682471	-3.039065886	0.002373129	0.013552666
ENSMUSG00000097990	11.77517346	-2.15691748	0.765909291	-2.81615265	0.004860257	0.02426937
ENSMUSG00000027470	18.19100749	-2.15681409	0.622918297	-3.462434962	0.000535311	0.003923635
ENSMUSG00000057719	624.8193521	-2.153140333	0.188328479	-11.43289823	2.86E-30	4.91E-28
ENSMUSG00000108313	5.493589313	-2.150807477	1.066818675	-2.016094701	0.043790074	0.136965279
ENSMUSG00000024910	85.95910847	-2.149986472	0.370953475	-5.795838609	6.80E-09	1.56E-07
ENSMUSG00000114943	16.48628188	-2.147046688	0.668270871	-3.212838955	0.0013143	0.008307879
ENSMUSG00000006574	22.87593288	-2.146833929	0.554009463	-3.875085305	0.000106587	0.000970206
ENSMUSG00000031891	499.5998104	-2.145663474	0.204289363	-10.5030602	8.36E-26	1.04E-23
ENSMUSG00000109186	63.17921177	-2.142890747	0.371076437	-5.774796057	7.70E-09	1.76E-07
ENSMUSG00000037989	5308.602895	-2.142593458	0.117593077	-18.22040478	3.56E-74	4.51E-71

ENSMUSG00000033826	21496.70109	-2.141802628	0.160462476	-13.34768531	1.22E-40	3.88E-38
ENSMUSG00000114212	19.02946105	-2.140906481	0.622736206	-3.437902695	0.000586238	0.004244708
ENSMUSG00000086719	7.270397318	-2.137433467	0.914841355	-2.33639795	0.019470511	0.072859663
ENSMUSG00000034792	19.96366676	-2.134925101	0.601660642	-3.548387498	0.000387598	0.002979598
ENSMUSG00000028356	69.46342607	-2.131358851	0.363858346	-5.857661015	4.69E-09	1.11E-07
ENSMUSG00000083001	19.29978991	-2.129865147	0.631950379	-3.370304407	0.000750852	0.005216432
ENSMUSG00000037159	47.03863423	-2.12862622	0.400387497	-5.316415311	1.06E-07	1.97E-06
ENSMUSG00000085170	11.69184538	-2.127066752	0.787637152	-2.700566812	0.006922143	0.032328946
ENSMUSG00000114245	43.45464441	-2.127036788	0.460849413	-4.615470321	3.92E-06	5.19E-05
ENSMUSG00000041872	17.37390863	-2.126009593	0.660103193	-3.220723085	0.001278676	0.008126464
ENSMUSG00000029811	4162.919667	-2.114797352	0.217052039	-9.743273355	1.97E-22	1.96E-20
ENSMUSG00000049154	234.0146655	-2.10857968	0.229287289	-9.196234507	3.71E-20	3.04E-18
ENSMUSG00000018217	17.61162823	-2.108239782	0.650294714	-3.241975888	0.001187041	0.007644295
ENSMUSG00000038354	19.51296478	-2.101749299	0.592753847	-3.545737087	0.000391517	0.003003513
ENSMUSG00000019539	28.42511801	-2.101676429	0.495890839	-4.238183619	2.25E-05	0.000245252
ENSMUSG00000043705	1472.860651	-2.094454591	0.219312498	-9.550092287	1.30E-21	1.22E-19
ENSMUSG00000009248	2078.260702	-2.094129822	0.169533903	-12.35227753	4.74E-35	1.10E-32
ENSMUSG00000097812	17.90563049	-2.093659589	0.759633971	-2.756142655	0.005848748	0.028177346
ENSMUSG00000063529	14.10635431	-2.093523874	0.686813141	-3.048170965	0.002302389	0.013212964
ENSMUSG00000009876	24.89004662	-2.093438296	0.550700004	-3.801413258	0.000143873	0.001254306
ENSMUSG00000000594	680.0884872	-2.093224581	0.13198182	-15.85994627	1.20E-56	6.37E-54
ENSMUSG00000029134	42.8755603	-2.093171599	0.415936213	-5.03243414	4.84E-07	7.81E-06
ENSMUSG00000046337	6.997907723	-2.090814937	0.961524971	-2.174478042	0.029669253	0.101434003
ENSMUSG00000006269	8.583653799	-2.090722451	0.968131847	-2.159543101	0.030808057	0.10447848
ENSMUSG00000028040	1140.942257	-2.087594442	0.148458878	-14.061769	6.52E-45	2.42E-42
ENSMUSG00000007097	10.58123449	-2.086318384	0.769156866	-2.712474498	0.006678292	0.031407126
ENSMUSG00000046952	24.53300993	-2.085241928	0.780217864	-2.672640583	0.007525683	0.034611315
ENSMUSG00000093446	7.079566122	-2.084838323	0.957452805	-2.177484166	0.029444462	0.100953317
ENSMUSG00000089697	25.80922725	-2.083352437	0.566183934	-3.679638914	0.000233564	0.001917085

ENSMUSG00000026246	17.73729131	-2.081596025	0.652822194	-3.188610995	0.001429581	0.00891077
ENSMUSG00000018126	11133.50881	-2.079664645	0.154588912	-13.45287066	2.96E-41	9.86E-39
ENSMUSG00000091105	8.838321057	-2.078120436	0.880253509	-2.360820395	0.018234559	0.069299405
ENSMUSG00000085887	46.68207648	-2.075458853	0.487634034	-4.256181292	2.08E-05	0.000229123
ENSMUSG00000102189	14.07606541	-2.075354881	0.683603707	-3.035903492	0.002398161	0.013667434
ENSMUSG00000036585	167.6983755	-2.069815732	0.230869916	-8.965289911	3.09E-19	2.31E-17
ENSMUSG00000074113	30.45291321	-2.068999565	0.475666547	-4.349684829	1.36E-05	0.000157777
ENSMUSG00000028236	65.91252183	-2.065044249	0.36191926	-5.705814746	1.16E-08	2.55E-07
ENSMUSG00000097800	126.6877402	-2.062274635	0.287279469	-7.178635637	7.04E-13	2.78E-11
ENSMUSG00000035580	109.3183392	-2.061194572	0.305382828	-6.749543143	1.48E-11	5.01E-10
ENSMUSG00000084939	1826.946992	-2.058786607	0.188568849	-10.91795709	9.46E-28	1.33E-25
ENSMUSG00000086422	29.82373282	-2.058551338	0.498675124	-4.128040961	3.66E-05	0.000378793
ENSMUSG00000082308	27.59684418	-2.056541412	0.585661	-3.511487722	0.000445606	0.00335725
ENSMUSG00000034871	7.812534273	-2.055424314	1.013171677	-2.028702895	0.042488561	0.133814065
ENSMUSG00000041165	13.90301899	-2.053381487	0.748920179	-2.741789506	0.006110549	0.029142717
ENSMUSG00000047205	289.7038361	-2.052006022	0.198778125	-10.32309777	5.54E-25	6.57E-23
ENSMUSG00000005465	25.23815821	-2.051910804	0.521890946	-3.931684997	8.44E-05	0.000792395
ENSMUSG00000108840	19.75744803	-2.051116249	0.591883612	-3.465404694	0.000529434	0.003887689
ENSMUSG00000024600	9.272384982	-2.048576054	1.019356497	-2.00967577	0.044465516	0.138611332
ENSMUSG00000086949	28.20392395	-2.046434051	0.53868327	-3.79895602	0.000145307	0.001265448
ENSMUSG00000074203	6.899070343	-2.046204543	0.925579778	-2.210727364	0.027054722	0.094773377
ENSMUSG00000029844	26.15665163	-2.045140803	0.535451017	-3.819473185	0.000133737	0.001177445
ENSMUSG00000020908	57.52462281	-2.044977701	0.39390034	-5.191611924	2.08E-07	3.65E-06
ENSMUSG00000032502	11.4788203	-2.044739462	0.811415835	-2.519964948	0.011736652	0.049097558
ENSMUSG00000109237	43.4310712	-2.043816357	0.406317276	-5.030099576	4.90E-07	7.90E-06
ENSMUSG00000083436	6.009925779	-2.043214438	0.991985641	-2.059721788	0.039425145	0.126703002
ENSMUSG00000044860	3836.840867	-2.041295339	0.203378404	-10.03693262	1.05E-23	1.12E-21
ENSMUSG00000068617	108.1734218	-2.039391303	0.296151089	-6.886320462	5.73E-12	2.03E-10
ENSMUSG00000041046	10.29502707	-2.038650455	0.82527138	-2.470278874	0.013500776	0.054781805

ENSMUSG00000075296	18.68214188	-2.036246757	0.654936143	-3.109076782	0.001876729	0.011181657
ENSMUSG00000048537	2119.908485	-2.033397114	0.134027303	-15.17151404	5.46E-52	2.54E-49
ENSMUSG00000099141	6.036868211	-2.03250907	0.989207453	-2.054684348	0.039909503	0.127876698
ENSMUSG00000045589	9.531929802	-2.030487767	0.866582617	-2.343097736	0.019124373	0.071969204
ENSMUSG00000094430	97.54025396	-2.030246656	0.270192698	-7.514069302	5.73E-14	2.55E-12
ENSMUSG00000036110	26.93463704	-2.025661895	0.551020186	-3.676202701	0.000236731	0.001938798
ENSMUSG00000108503	8.674931258	-2.025327517	0.888651851	-2.279101219	0.022661049	0.082314216
ENSMUSG00000030406	86.30753126	-2.023942637	0.36036741	-5.616330955	1.95E-08	4.12E-07
ENSMUSG00000083016	10.12878309	-2.023598375	0.800280529	-2.528611282	0.011451478	0.048230294
ENSMUSG00000099474	127.6355253	-2.022985907	0.309747839	-6.531073524	6.53E-11	2.02E-09
ENSMUSG00000030796	731.5884675	-2.021294041	0.142420418	-14.19244564	1.02E-45	3.86E-43
ENSMUSG00000026344	30.72456264	-2.020601839	0.520221418	-3.884118897	0.000102702	0.000938283
ENSMUSG00000090990	11.81412514	-2.018683605	0.742413411	-2.71908289	0.00654632	0.030877641
ENSMUSG00000021806	1035.000759	-2.018554387	0.424891343	-4.750754332	2.03E-06	2.85E-05
ENSMUSG00000045838	223.4713183	-2.017433187	0.205771045	-9.804261735	1.08E-22	1.09E-20
ENSMUSG00000085836	37.36048704	-2.016095275	0.531034326	-3.796544174	0.000146727	0.0012752
ENSMUSG00000033963	7.684629109	-2.015647557	0.917628253	-2.196584019	0.028050169	0.097255412
ENSMUSG00000097767	127.4218368	-2.014051119	0.382991981	-5.258729213	1.45E-07	2.63E-06
ENSMUSG00000110052	17.95461467	-2.013541351	0.726216628	-2.772645617	0.005560264	0.027026905
ENSMUSG00000033350	113.4354658	-2.012109407	0.872177149	-2.306996244	0.02105503	0.077611275
ENSMUSG00000013611	17.75709301	-2.011425748	0.618988267	-3.249537761	0.001155927	0.007487172
ENSMUSG00000058626	52.1725657	-2.011216395	0.55174143	-3.645215469	0.000267168	0.002152497
ENSMUSG00000033210	16.20653482	-2.010129291	0.624582238	-3.218358078	0.001289268	0.008168169
ENSMUSG00000049130	24.29240254	-2.009065256	0.529863088	-3.791668643	0.000149638	0.001297973
ENSMUSG00000031410	140.1911679	-2.008634505	0.269984035	-7.439826979	1.01E-13	4.34E-12
ENSMUSG00000044716	255.3843875	-2.005242491	0.210826494	-9.511340128	1.88E-21	1.74E-19
ENSMUSG00000109603	60.42134929	-2.001311217	0.335373827	-5.9674043	2.41E-09	5.96E-08
ENSMUSG00000035277	52.62793263	-2.000192	0.402390099	-4.97077837	6.67E-07	1.04E-05
ENSMUSG00000040694	33.12301689	-1.999817118	0.510257301	-3.919232736	8.88E-05	0.000827151



ENSMUSG00000096847	207.2308205	-1.999646294	0.269039408	-7.432540494	1.07E-13	4.57E-12
ENSMUSG00000113506	27.69112727	-1.995834761	0.645152369	-3.093586659	0.001977528	0.01168544
ENSMUSG00000026796	4901.413511	-1.994239387	0.124384266	-16.03289104	7.53E-58	4.20E-55
ENSMUSG00000036528	1467.908698	-1.992353141	0.180592114	-11.03233745	2.67E-28	3.91E-26
ENSMUSG00000099364	25.17231033	-1.991237636	0.508314648	-3.917332784	8.95E-05	0.000833
ENSMUSG00000074224	16.17188708	-1.990446524	0.726524587	-2.739682261	0.006149861	0.029298877
ENSMUSG00000035969	114.30662	-1.988878382	0.267954455	-7.422449401	1.15E-13	4.90E-12
ENSMUSG00000115437	29.43643885	-1.987945374	0.51685941	-3.846201372	0.000119963	0.001070976
ENSMUSG00000087406	51.04408383	-1.987069057	0.359019834	-5.534705528	3.12E-08	6.34E-07
ENSMUSG00000025467	8579.693195	-1.984770029	0.22113709	-8.975292341	2.83E-19	2.13E-17
ENSMUSG00000084854	7.562693921	-1.984765216	0.933657	-2.125796964	0.033520169	0.111772322
ENSMUSG00000020431	225.5041266	-1.984184853	0.224180268	-8.850845227	8.69E-19	6.31E-17
ENSMUSG00000033066	206.8610197	-1.982984569	0.275552724	-7.196388927	6.18E-13	2.47E-11
ENSMUSG00000044034	9.215507413	-1.980128801	0.827978201	-2.391522867	0.016778639	0.064871779
ENSMUSG00000090327	96.92510064	-1.976578724	0.277871724	-7.113277654	1.13E-12	4.38E-11
ENSMUSG00000030125	34.71533362	-1.976108914	0.475519017	-4.155688508	3.24E-05	0.00033971
ENSMUSG00000028332	153.6080265	-1.974792649	0.241078535	-8.191491	2.58E-16	1.43E-14
ENSMUSG00000025082	613.5176633	-1.973334419	0.1959249	-10.07189194	7.35E-24	8.08E-22
ENSMUSG00000076438	22.46828556	-1.972586797	0.525472651	-3.753928572	0.000174084	0.00148291
ENSMUSG00000056155	20.68843563	-1.972172158	0.55305666	-3.565949564	0.000362541	0.002816102
ENSMUSG00000040632	8.99199529	-1.969420133	0.874173718	-2.252893324	0.024265876	0.086879198
ENSMUSG00000001566	802.110737	-1.965548372	0.207151557	-9.488455716	2.34E-21	2.13E-19
ENSMUSG00000037169	674.1131367	-1.965384786	0.241634457	-8.133710767	4.16E-16	2.29E-14
ENSMUSG00000110706	9.846139287	-1.964927735	0.891745961	-2.203461323	0.02756225	0.095936591
ENSMUSG00000112664	15.01700416	-1.962008597	0.707469581	-2.773276265	0.005549499	0.027015798
ENSMUSG00000105124	14.05375994	-1.961372428	0.711758596	-2.755670867	0.00585719	0.02820583
ENSMUSG00000101693	8.38063025	-1.959766856	0.929428145	-2.108572747	0.034981477	0.115414986
ENSMUSG00000068735	2013.439231	-1.95883273	0.168055751	-11.65585063	2.14E-31	4.19E-29
ENSMUSG00000022758	17.39355551	-1.957486877	0.631673266	-3.098891442	0.001942462	0.011511783

ENSMUSG00000037185	69.4910453	-1.95179892	0.361383067	-5.400914142	6.63E-08	1.29E-06
ENSMUSG00000079889	29.81834479	-1.951318506	0.494349176	-3.947247414	7.91E-05	0.000748303
ENSMUSG00000000791	34.47069475	-1.947327928	0.484515663	-4.019122762	5.84E-05	0.000573885
ENSMUSG00000031937	362.9413182	-1.94500564	0.175794618	-11.06407958	1.87E-28	2.82E-26
ENSMUSG00000115220	9.62696464	-1.943375861	0.82263663	-2.362374577	0.018158285	0.069068379
ENSMUSG00000025401	12148.17639	-1.943345445	0.178420992	-10.89191036	1.26E-27	1.76E-25
ENSMUSG00000020216	15.73413	-1.941470121	0.669280919	-2.900829931	0.003721758	0.019478744
ENSMUSG00000043110	60.73641252	-1.940931269	0.352101576	-5.512418571	3.54E-08	7.14E-07
ENSMUSG00000043843	46.77260169	-1.940362565	0.440368783	-4.40622188	1.05E-05	0.000124315
ENSMUSG00000037032	24.25181202	-1.93745437	0.615339351	-3.148594944	0.001640574	0.010009971
ENSMUSG00000096917	231.1226901	-1.936942068	0.291151386	-6.652697402	2.88E-11	9.36E-10
ENSMUSG00000045087	10.52606739	-1.935915484	0.806228739	-2.401198804	0.016341456	0.06359498
ENSMUSG00000100215	15.33335345	-1.934722044	0.661153305	-2.926283555	0.003430381	0.018288532
ENSMUSG00000113665	20.43571801	-1.932717208	0.626303952	-3.085909327	0.002029307	0.01192499
ENSMUSG00000021913	183.6841107	-1.93259839	0.283753693	-6.810830794	9.70E-12	3.34E-10
ENSMUSG00000037727	8.107107225	-1.93233423	0.905559403	-2.133856954	0.032854492	0.110228141
ENSMUSG00000102652	16.03972496	-1.931913662	0.631895073	-3.057333006	0.00223316	0.012898655
ENSMUSG00000026471	12.78493344	-1.931045309	0.862290954	-2.239435888	0.025127568	0.089401708
ENSMUSG00000103616	49.48611324	-1.929802265	0.415357793	-4.646120281	3.38E-06	4.51E-05
ENSMUSG00000086187	215.3570144	-1.92923023	0.199264857	-9.681738448	3.61E-22	3.48E-20
ENSMUSG00000063296	418.2278046	-1.923302996	0.20318492	-9.46577628	2.91E-21	2.61E-19
ENSMUSG00000070999	27.18179648	-1.923001951	0.529011642	-3.635084372	0.00027789	0.002229215
ENSMUSG00000018507	120.3914867	-1.922786432	0.252329397	-7.620144362	2.53E-14	1.17E-12
ENSMUSG00000032936	29.90710456	-1.920472521	0.570238589	-3.367840335	0.000757595	0.005253457
ENSMUSG00000003849	432.0089335	-1.919383728	0.176468047	-10.8766644	1.49E-27	2.06E-25
ENSMUSG00000086872	14.57473631	-1.918549167	0.648347707	-2.959136196	0.003085027	0.016821318
ENSMUSG00000084837	31.46829979	-1.917747249	0.522748851	-3.668582428	0.000243899	0.001990191
ENSMUSG00000022816	864.8492905	-1.916223404	0.190286328	-10.07021065	7.48E-24	8.18E-22
ENSMUSG00000104211	9.553703683	-1.914740226	0.852369972	-2.246372218	0.024680176	0.088133324

ENSMUSG00000016982	9.930580596	-1.913614748	0.905111735	-2.114230402	0.034495593	0.114222157
ENSMUSG00000021492	14.51845824	-1.909861163	0.68895168	-2.772126432	0.00556914	0.027052362
ENSMUSG00000109560	34.11551865	-1.909260465	0.49198975	-3.880691551	0.00010416	0.000949272
ENSMUSG00000063522	17.51986895	-1.906343893	0.947227123	-2.012552056	0.044161775	0.137857187
ENSMUSG00000042751	36.62779141	-1.903861154	0.617273576	-3.084306908	0.00204027	0.011958193
ENSMUSG00000108660	15.21027551	-1.901877478	0.634441241	-2.997720442	0.002720071	0.015196635
ENSMUSG00000099276	45.51119702	-1.901688424	0.409497443	-4.643956769	3.42E-06	4.55E-05
ENSMUSG00000097381	12.00898713	-1.898837919	0.778994431	-2.437550055	0.014787167	0.058935339
ENSMUSG00000044286	15.89339123	-1.895008815	0.616782071	-3.072412288	0.002123362	0.012366963
ENSMUSG00000032338	33.94030533	-1.889492087	0.483570522	-3.907376484	9.33E-05	0.00086303
ENSMUSG00000101061	20.22178063	-1.885311045	0.632338863	-2.981488496	0.002868508	0.015850001
ENSMUSG00000048981	28.39374457	-1.884467619	0.468135832	-4.025471859	5.69E-05	0.000560593
ENSMUSG00000047117	7.001822895	-1.884308048	0.935607677	-2.013993787	0.044010186	0.137480201
ENSMUSG00000040703	1269.738157	-1.884091592	0.202216063	-9.317220216	1.19E-20	1.01E-18
ENSMUSG00000040680	40.79109024	-1.882340156	0.401256952	-4.691109146	2.72E-06	3.72E-05
ENSMUSG00000074704	7.759152895	-1.879862956	0.92122543	-2.040611228	0.041289485	0.131205017
ENSMUSG00000040722	1521.379687	-1.872484035	0.160801156	-11.64471752	2.44E-31	4.69E-29
ENSMUSG00000098197	190.5679132	-1.863647356	0.23122828	-8.05977259	7.64E-16	4.13E-14
ENSMUSG00000053693	128.2238955	-1.862312778	0.246896682	-7.542882975	4.60E-14	2.07E-12
ENSMUSG00000034739	83.74699023	-1.861817244	0.351807018	-5.292154932	1.21E-07	2.23E-06
ENSMUSG00000074647	43.42889652	-1.856413292	0.551689207	-3.364962138	0.000765542	0.005294844
ENSMUSG00000042976	24.56129424	-1.855028079	0.556970485	-3.330568007	0.00086669	0.005910719
ENSMUSG00000050071	57.12759262	-1.854962601	0.346585678	-5.352104026	8.69E-08	1.66E-06
ENSMUSG00000030413	3110.034059	-1.852518635	0.187551079	-9.877408569	5.22E-23	5.31E-21
ENSMUSG00000040471	990.9079334	-1.850223448	0.138733085	-13.33656965	1.42E-40	4.39E-38
ENSMUSG00000021337	73.41443018	-1.848078432	0.315242351	-5.862405301	4.56E-09	1.08E-07
ENSMUSG00000058613	16.88718876	-1.84336192	0.627958119	-2.935485447	0.003330262	0.017861515
ENSMUSG00000108518	11.7436804	-1.842941772	0.741735056	-2.4846362	0.012968389	0.053075434
ENSMUSG00000066952	13.95398167	-1.841054506	0.682394994	-2.697930848	0.006977193	0.032531547

ENSMUSG00000078964	49.61570292	-1.840416487	0.397807907	-4.626394938	3.72E-06	4.93E-05
ENSMUSG00000037477	105.5683416	-1.840242895	0.326630184	-5.634025841	1.76E-08	3.76E-07
ENSMUSG00000056508	249.8168927	-1.840202839	0.202808667	-9.073590701	1.15E-19	8.98E-18
ENSMUSG00000084211	9.877155741	-1.838219887	0.883209052	-2.081296475	0.037406778	0.121463097
ENSMUSG00000086322	13.97488187	-1.836062525	0.761205256	-2.412046569	0.015863255	0.06218819
ENSMUSG00000115834	24.23435015	-1.835671201	0.556425549	-3.299041899	0.000970154	0.006477668
ENSMUSG00000000805	279.9092995	-1.835173008	0.298655734	-6.144777416	8.01E-10	2.13E-08
ENSMUSG00000062444	19.47976402	-1.831688914	0.631400676	-2.900992956	0.003719822	0.019473183
ENSMUSG00000047636	7.680644995	-1.829853739	0.916480147	-1.996610342	0.045867529	0.141910621
ENSMUSG00000038146	60.71639802	-1.827410568	0.366127245	-4.991189797	6.00E-07	9.41E-06
ENSMUSG00000051498	10.01881386	-1.823526896	0.799075846	-2.282044822	0.022486694	0.081846869
ENSMUSG00000029706	89.14386319	-1.821675678	0.390374204	-4.666485791	3.06E-06	4.14E-05
ENSMUSG00000078776	70.42332793	-1.814544823	0.324888055	-5.585138623	2.34E-08	4.88E-07
ENSMUSG00000097471	18.48415064	-1.814159258	0.595055706	-3.048721727	0.002298172	0.013195229
ENSMUSG00000031372	18.26386202	-1.813604126	0.606611225	-2.989730574	0.002792236	0.015516985
ENSMUSG00000115575	19.76791344	-1.811711595	0.606348527	-2.987904671	0.002808972	0.015590561
ENSMUSG00000024793	83.68598952	-1.811482121	0.285258784	-6.350311452	2.15E-10	6.21E-09
ENSMUSG00000114593	19.90463496	-1.810304003	0.596312607	-3.035830505	0.002398742	0.013667434
ENSMUSG00000047773	28.29241878	-1.808647739	0.507390823	-3.564604749	0.000364405	0.002827625
ENSMUSG00000085327	24.9290473	-1.807839131	0.611004049	-2.958800577	0.003088389	0.016821512
ENSMUSG00000076434	41.14231973	-1.80532695	0.469133901	-3.84821252	0.000118983	0.001063075
ENSMUSG00000091890	41.92397075	-1.800251667	0.421375382	-4.272322832	1.93E-05	0.000215165
ENSMUSG00000082318	89.77627566	-1.798631217	0.310073763	-5.800655941	6.61E-09	1.52E-07
ENSMUSG00000031842	453.4887772	-1.798495674	0.230435656	-7.804762975	5.96E-15	2.95E-13
ENSMUSG00000022483	10.63014926	-1.795911885	0.856736362	-2.096224655	0.036062267	0.118303121
ENSMUSG00000110507	8.495654144	-1.795609136	0.914916059	-1.962594402	0.049693322	0.150469894
ENSMUSG00000027524	38.35727505	-1.794797752	0.435716179	-4.119190058	3.80E-05	0.00039182
ENSMUSG00000090256	8.979996394	-1.793673834	0.839224669	-2.137298748	0.032573701	0.109483963
ENSMUSG00000090658	11.18789741	-1.793004713	0.809637761	-2.214576444	0.02678915	0.094053029

ENSMUSG00000035638	12.84307359	-1.792398538	0.690679957	-2.595121692	0.009455743	0.041510341
ENSMUSG00000052373	666.3428051	-1.792377904	0.210614597	-8.510226398	1.74E-17	1.12E-15
ENSMUSG00000001930	156.9646165	-1.792062429	0.226439526	-7.914088416	2.49E-15	1.29E-13
ENSMUSG00000084990	28.06251832	-1.791213988	0.489218549	-3.661377909	0.000250862	0.002035838
ENSMUSG00000052496	58.13727913	-1.790419613	0.373102742	-4.798730789	1.60E-06	2.31E-05
ENSMUSG00000086424	17.38341994	-1.788738874	0.62441189	-2.864677791	0.004174337	0.021429995
ENSMUSG00000007888	78.96680363	-1.787835564	0.408077753	-4.381114999	1.18E-05	0.000138365
ENSMUSG00000026546	94.34978966	-1.787418761	0.34881116	-5.124316435	2.99E-07	5.06E-06
ENSMUSG00000086721	13.67173492	-1.786848146	0.768310926	-2.325683633	0.020035434	0.074542913
ENSMUSG00000011008	1293.776548	-1.78437297	0.127552364	-13.98933675	1.81E-44	6.62E-42
ENSMUSG00000100629	13.86419126	-1.783879888	0.848308675	-2.102866493	0.035477442	0.11663514
ENSMUSG00000013921	16.3701346	-1.783302705	0.626068638	-2.848414052	0.004393772	0.022309997
ENSMUSG00000036067	10.52462759	-1.783223106	0.766696392	-2.325853003	0.020026394	0.07452171
ENSMUSG00000114791	7.448735553	-1.782036056	0.890726274	-2.000655093	0.045429572	0.140946701
ENSMUSG00000002384	56.04256798	-1.781960071	0.358591893	-4.969326147	6.72E-07	1.05E-05
ENSMUSG00000112429	8.934849027	-1.779514137	0.835019386	-2.131105178	0.033080478	0.110637034
ENSMUSG00000035863	42.47860012	-1.778885103	0.445462777	-3.993341741	6.51E-05	0.000634293
ENSMUSG00000027457	536.2143231	-1.778633296	0.174596807	-10.18708947	2.26E-24	2.56E-22
ENSMUSG00000089664	8.158634792	-1.77782952	0.872800607	-2.036925164	0.041657542	0.132092257
ENSMUSG00000060470	33.33731032	-1.776137976	0.560851033	-3.16686227	0.001540933	0.009487671
ENSMUSG00000043088	114.6692901	-1.775224033	0.29796327	-5.957861964	2.56E-09	6.30E-08
ENSMUSG00000021798	502.3657906	-1.773621356	0.139531417	-12.71126888	5.12E-37	1.34E-34
ENSMUSG00000026430	1158.308807	-1.773573468	0.155174477	-11.42954374	2.98E-30	5.07E-28
ENSMUSG00000075524	11.21518607	-1.773065303	0.784994107	-2.258698871	0.023902123	0.085905115
ENSMUSG00000022676	39.65791377	-1.771927119	0.499565822	-3.546934242	0.000389742	0.002992812
ENSMUSG00000070348	4928.118414	-1.771286653	0.172376823	-10.27566594	9.07E-25	1.07E-22
ENSMUSG00000010660	346.1256095	-1.771134815	0.215342624	-8.224729432	1.96E-16	1.11E-14
ENSMUSG00000049134	58.36815745	-1.767716996	0.379092064	-4.663028234	3.12E-06	4.20E-05
ENSMUSG00000023235	6421.580458	-1.763716183	0.175647641	-10.04121757	1.00E-23	1.08E-21

ENSMUSG00000086943	8.046123751	-1.763375316	0.870771679	-2.025071967	0.042859975	0.134736439
ENSMUSG00000037031	2655.45409	-1.763250101	0.15764878	-11.18467332	4.85E-29	7.78E-27
ENSMUSG00000006469	11.21439172	-1.762449562	0.758802697	-2.322671716	0.020196795	0.075055611
ENSMUSG00000000197	10.09823787	-1.761502683	0.842493397	-2.090820759	0.036544135	0.119474101
ENSMUSG000000021904	33.14863212	-1.759468603	0.570188966	-3.085764034	0.002030299	0.01192499
ENSMUSG000000044361	100.055775	-1.758436083	0.326594697	-5.384153805	7.28E-08	1.41E-06
ENSMUSG000000035246	40.88305425	-1.757977827	0.426491623	-4.121951603	3.76E-05	0.000388048
ENSMUSG000000047361	8.771871472	-1.757114969	0.815584424	-2.154424382	0.031206906	0.105590829
ENSMUSG000000078872	13.89109685	-1.756686372	0.674367549	-2.604939065	0.00918906	0.040625732
ENSMUSG000000034872	40.48239487	-1.756571521	0.459519432	-3.82262729	0.000132037	0.001165241
ENSMUSG000000078192	8.725625517	-1.75501473	0.828159638	-2.119174431	0.034075728	0.113100583
ENSMUSG000000046215	11.84103458	-1.753926915	0.730976745	-2.399429157	0.016420657	0.063833726
ENSMUSG000000003070	269.0278374	-1.752394652	0.247897811	-7.069020266	1.56E-12	5.91E-11
ENSMUSG000000090317	49.31177117	-1.75166925	0.36901972	-4.746817464	2.07E-06	2.90E-05
ENSMUSG000000019900	316.3982778	-1.750056113	0.245718486	-7.122199637	1.06E-12	4.14E-11
ENSMUSG000000086564	26.51598282	-1.749961101	0.553981453	-3.158880307	0.001583765	0.009721868
ENSMUSG000000028137	279.3675673	-1.749236543	0.235121048	-7.439727581	1.01E-13	4.34E-12
ENSMUSG000000098109	14.63808445	-1.744837908	0.655872929	-2.660329205	0.007806431	0.035652512
ENSMUSG000000021303	65.80428794	-1.7430252	0.313989452	-5.551222149	2.84E-08	5.80E-07
ENSMUSG000000030401	65.97809922	-1.742155113	0.362465526	-4.806402225	1.54E-06	2.23E-05
ENSMUSG000000037166	57.34894662	-1.740287331	0.360525366	-4.827087066	1.39E-06	2.02E-05
ENSMUSG000000030134	14.0617125	-1.737791352	0.695889073	-2.497224656	0.012516963	0.05155009
ENSMUSG000000047021	42.42234327	-1.736813485	0.399238445	-4.350316229	1.36E-05	0.000157405
ENSMUSG000000021256	14.7642473	-1.736686148	0.664799607	-2.61234533	0.008992337	0.039868412
ENSMUSG000000018581	73.17507886	-1.735662487	0.35112668	-4.943123341	7.69E-07	1.19E-05
ENSMUSG000000052921	19.82264098	-1.735167215	0.610107948	-2.844033124	0.004454642	0.022542084
ENSMUSG000000018411	153.3029849	-1.732714504	0.261693244	-6.62116637	3.56E-11	1.15E-09
ENSMUSG000000071265	13.68593505	-1.729748589	0.740285813	-2.336595622	0.01946022	0.072859663
ENSMUSG000000091898	18.84529114	-1.728875537	0.626345402	-2.760259006	0.005775555	0.02787893

ENSMUSG00000048148	34.92551821	-1.727915817	0.527836222	-3.273583254	0.001061931	0.006996196
ENSMUSG00000099988	33.00866534	-1.72720025	0.468288221	-3.688327344	0.000225733	0.001863782
ENSMUSG00000010505	254.6720573	-1.726968171	0.283993637	-6.081010093	1.19E-09	3.08E-08
ENSMUSG00000084881	15.03647468	-1.72669054	0.65588217	-2.632623081	0.008472832	0.038064589
ENSMUSG00000092483	12.91174289	-1.7266227	0.709855889	-2.43235666	0.015000928	0.059568321
ENSMUSG00000100396	12.9369009	-1.725376187	0.686899791	-2.511830996	0.012010659	0.049990615
ENSMUSG00000040136	98.41749089	-1.724471409	0.324062874	-5.321409979	1.03E-07	1.92E-06
ENSMUSG00000102980	97.54309369	-1.72373451	0.268767488	-6.413478505	1.42E-10	4.21E-09
ENSMUSG00000097854	9.443777316	-1.721528832	0.835825256	-2.059675536	0.03942957	0.126703002
ENSMUSG00000056380	9.427856202	-1.719719757	0.784722892	-2.191499412	0.028415672	0.098262972
ENSMUSG00000058183	10.79826397	-1.718169658	0.747052412	-2.29993188	0.02145208	0.078827291
ENSMUSG00000039330	36.84625251	-1.71486005	0.421033641	-4.072976317	4.64E-05	0.00047094
ENSMUSG00000007946	17.64459518	-1.71351558	0.732550929	-2.339107783	0.019329856	0.072522732
ENSMUSG00000038599	257.195198	-1.713108201	0.25241339	-6.786914919	1.15E-11	3.91E-10
ENSMUSG00000094634	29.47525798	-1.712676727	0.456543182	-3.751401389	0.000175849	0.001495264
ENSMUSG00000038239	267.6942449	-1.712638398	0.25641503	-6.67916541	2.40E-11	7.92E-10
ENSMUSG00000086598	135.9688717	-1.711470374	0.251755502	-6.798144879	1.06E-11	3.62E-10
ENSMUSG00000082969	9.404672176	-1.709162866	0.826164776	-2.068791744	0.038565634	0.124573029
ENSMUSG00000092210	102.2217873	-1.708376325	0.422428558	-4.044178102	5.25E-05	0.00052345
ENSMUSG00000035835	20.30036428	-1.705715715	0.568204803	-3.00193822	0.002682666	0.015031693
ENSMUSG00000102615	207.9109526	-1.70542247	0.270599819	-6.302378447	2.93E-10	8.28E-09
ENSMUSG00000113591	13.56669469	-1.705181823	0.725823343	-2.349306949	0.018808395	0.071020319
ENSMUSG00000026959	21.73005394	-1.704995083	0.678432023	-2.513140631	0.011966162	0.04986737
ENSMUSG00000043986	23.09240487	-1.703597674	0.541185317	-3.147900765	0.001644475	0.010022804
ENSMUSG00000028940	46.37220548	-1.70268497	0.444539514	-3.830221873	0.000128028	0.001137962
ENSMUSG00000033597	42.10462493	-1.701084372	0.489782213	-3.473144448	0.000514398	0.003799801
ENSMUSG00000068154	393.2164682	-1.699564868	0.230533938	-7.372297905	1.68E-13	6.99E-12
ENSMUSG00000001739	9480.171404	-1.699242996	0.118135458	-14.38385239	6.54E-47	2.51E-44
ENSMUSG00000069299	9.926601751	-1.697137101	0.852018472	-1.991901768	0.046381837	0.143045408

ENSMUSG00000041556	20.0671601	-1.697097994	0.610772299	-2.778609959	0.005459203	0.026651859
ENSMUSG00000107634	11.26938038	-1.69627301	0.775111198	-2.18842537	0.028638632	0.09878436
ENSMUSG00000008734	35.41196334	-1.693867914	0.468838451	-3.612903142	0.000302788	0.002408157
ENSMUSG00000085017	18.91335248	-1.69243839	0.695945339	-2.431855341	0.015021705	0.059582637
ENSMUSG00000055805	46.45570711	-1.691491236	0.37124941	-4.556212588	5.21E-06	6.69E-05
ENSMUSG00000030402	130.9322555	-1.691031187	0.306201108	-5.522616161	3.34E-08	6.76E-07
ENSMUSG00000090370	46.56119329	-1.68763161	0.390109349	-4.326047588	1.52E-05	0.000174382
ENSMUSG00000097680	65.44136827	-1.685888255	0.322779064	-5.223040912	1.76E-07	3.15E-06
ENSMUSG00000024968	335.3355529	-1.684202734	0.193279558	-8.713817161	2.94E-18	2.05E-16
ENSMUSG00000048489	13.37560305	-1.683152297	0.701575653	-2.399103062	0.016435288	0.063843122
ENSMUSG00000047986	21.38079924	-1.682825536	0.55008858	-3.059190098	0.002219363	0.012831709
ENSMUSG00000029718	39.73279098	-1.682339524	0.432582403	-3.889061395	0.000100633	0.000922025
ENSMUSG00000043155	289.7128874	-1.680836635	0.237325301	-7.082416541	1.42E-12	5.39E-11
ENSMUSG00000036298	345.439043	-1.680342852	0.197414977	-8.511729325	1.71E-17	1.11E-15
ENSMUSG00000056529	13.44335718	-1.679051302	0.652758008	-2.572241599	0.010104235	0.043711843
ENSMUSG00000110618	25.50399806	-1.678777307	0.516335816	-3.251328406	0.001148671	0.007455329
ENSMUSG00000100658	109.1029423	-1.678053482	0.272154943	-6.165801959	7.01E-10	1.88E-08
ENSMUSG00000108934	11.98858697	-1.676275622	0.806125091	-2.079423703	0.037578424	0.121913941
ENSMUSG00000025129	61.1035957	-1.673624288	0.334688674	-5.000540556	5.72E-07	9.04E-06
ENSMUSG00000112581	15.02868322	-1.673334057	0.683817619	-2.447047297	0.014403194	0.057750022
ENSMUSG00000097542	8.441087899	-1.672762186	0.842340134	-1.985851225	0.047049846	0.144625584
ENSMUSG00000064080	11.35870658	-1.6726971	0.839943653	-1.991439658	0.046432573	0.143162285
ENSMUSG00000112388	44.68905295	-1.672283581	0.402932491	-4.150282293	3.32E-05	0.000346948
ENSMUSG00000034227	308.890444	-1.668900752	0.601998386	-2.772267819	0.005566722	0.027046505
ENSMUSG00000038765	19.70886511	-1.666560969	0.626842465	-2.658659968	0.00784521	0.035771012
ENSMUSG00000109617	14.21721545	-1.666003638	0.69692178	-2.390517393	0.016824652	0.065015867
ENSMUSG00000041120	49.31943885	-1.665928157	0.391264388	-4.257806756	2.06E-05	0.000227802
ENSMUSG00000025317	10.60306035	-1.664802762	0.776651737	-2.143564075	0.032067832	0.108011587
ENSMUSG00000042961	69.47525942	-1.663454741	0.346908991	-4.795075314	1.63E-06	2.35E-05



ENSMUSG00000044724	77.40503103	-1.663313833	0.347895613	-4.78107159	1.74E-06	2.50E-05
ENSMUSG00000054146	482.8922132	-1.66284782	0.216683348	-7.674091427	1.67E-14	7.90E-13
ENSMUSG00000087651	72.70156013	-1.662823713	0.316400706	-5.255436167	1.48E-07	2.68E-06
ENSMUSG00000035697	68.22881558	-1.662522307	0.35499468	-4.683231612	2.82E-06	3.85E-05
ENSMUSG00000109737	34.02785093	-1.6619919	0.480044983	-3.462158672	0.000535861	0.003924054
ENSMUSG00000021573	476.9844105	-1.659139318	0.182337316	-9.099285634	9.09E-20	7.24E-18
ENSMUSG00000055818	44.28302914	-1.657880564	0.380849342	-4.3531139	1.34E-05	0.000155814
ENSMUSG00000063704	40.87131687	-1.657545667	0.48718528	-3.402290126	0.000668237	0.004732405
ENSMUSG00000099644	13.15892888	-1.653388687	0.712646226	-2.320069379	0.020337124	0.075438825
ENSMUSG00000106843	13.14844203	-1.651444282	0.679559397	-2.43016915	0.015091778	0.059808929
ENSMUSG00000045521	61.10101499	-1.649836845	0.354874638	-4.649069472	3.33E-06	4.46E-05
ENSMUSG00000086712	208.2582908	-1.64947803	0.203103404	-8.121370693	4.61E-16	2.53E-14
ENSMUSG00000107879	12.5576747	-1.64857694	0.786017395	-2.097379716	0.035959975	0.118071762
ENSMUSG00000091017	1774.404662	-1.648473552	0.198160887	-8.318864403	8.88E-17	5.23E-15
ENSMUSG00000115458	22.96251747	-1.646612995	0.563888648	-2.920103111	0.003499156	0.018557592
ENSMUSG00000072902	39.66472405	-1.646158908	0.514426735	-3.199987082	0.001374337	0.008621406
ENSMUSG00000024575	21.01609314	-1.645318294	0.573027768	-2.871271492	0.004088242	0.021058872
ENSMUSG00000022026	313266.6778	-1.640923135	0.191608926	-8.563918047	1.09E-17	7.22E-16
ENSMUSG00000097559	815.2869258	-1.640049158	0.206757379	-7.932240035	2.15E-15	1.12E-13
ENSMUSG00000074628	30.1314686	-1.638569549	0.57969392	-2.826611585	0.004704335	0.023596801
ENSMUSG00000074652	90.83874636	-1.633573392	0.289714042	-5.638571669	1.71E-08	3.67E-07
ENSMUSG00000041566	185.3137644	-1.633460314	0.239050158	-6.833127928	8.31E-12	2.88E-10
ENSMUSG00000028480	549.8580663	-1.632821566	0.1787994	-9.132142297	6.72E-20	5.41E-18
ENSMUSG00000018566	48.26709707	-1.632750777	0.403718254	-4.044282768	5.25E-05	0.00052345
ENSMUSG00000013158	14.30521798	-1.630752853	0.658977152	-2.474672829	0.013335828	0.054247688
ENSMUSG00000045903	14.43308646	-1.63007636	0.63222275	-2.578326009	0.009928028	0.043142042
ENSMUSG00000046811	15.92386874	-1.62971003	0.670056214	-2.432198964	0.015007461	0.059573048
ENSMUSG00000025380	162.1263486	-1.628780924	0.271687516	-5.995052517	2.03E-09	5.09E-08
ENSMUSG00000069755	374.0073653	-1.625648022	0.259904777	-6.254783156	3.98E-10	1.10E-08

ENSMUSG00000101940	13.11587678	-1.623722928	0.673527616	-2.410774092	0.015918705	0.062346864
ENSMUSG00000106969	25.3940226	-1.623265637	0.496493167	-3.269462187	0.001077521	0.00708217
ENSMUSG00000020331	251.5577417	-1.621993794	0.212279141	-7.640853403	2.16E-14	1.01E-12
ENSMUSG00000105896	70.76319231	-1.620990088	0.347681077	-4.662290224	3.13E-06	4.22E-05
ENSMUSG00000032584	2387.269872	-1.619312813	0.129373256	-12.5165963	6.06E-36	1.48E-33
ENSMUSG00000079906	14.59287646	-1.619179897	0.694588353	-2.331135973	0.019746191	0.073700386
ENSMUSG00000038540	27.46928499	-1.617589844	0.465068115	-3.478178337	0.000504834	0.003742786
ENSMUSG00000003352	929.7806073	-1.617526317	0.123764352	-13.06940395	4.92E-39	1.45E-36
ENSMUSG00000051606	105.0767804	-1.616125356	0.306172393	-5.278481645	1.30E-07	2.39E-06
ENSMUSG00000004655	8846.788949	-1.614797641	0.176526967	-9.147597492	5.82E-20	4.70E-18
ENSMUSG00000065549	40.22189287	-1.614208357	0.387690041	-4.163657009	3.13E-05	0.0003293
ENSMUSG00000103746	12.15723652	-1.612023913	0.747980523	-2.155168303	0.031148666	0.105457175
ENSMUSG00000046487	12.57879865	-1.61013841	0.750705898	-2.144832503	0.031966241	0.107750779
ENSMUSG00000033327	13.29094453	-1.60923779	0.771186358	-2.08670417	0.036914884	0.120268639
ENSMUSG00000046613	598.8959702	-1.607976264	0.247477992	-6.497451557	8.17E-11	2.51E-09
ENSMUSG00000058740	14.51562031	-1.607877845	0.725943502	-2.21488014	0.026768293	0.093994598
ENSMUSG00000062184	12.31907269	-1.60772415	0.701248198	-2.29266065	0.02186755	0.080011194
ENSMUSG00000030223	462.7403084	-1.607211101	0.166037132	-9.679829331	3.67E-22	3.53E-20
ENSMUSG00000102813	13.14673653	-1.604134044	0.7005472	-2.289830069	0.022031169	0.080464642
ENSMUSG00000024039	323.7182842	-1.601660244	0.245443244	-6.525582924	6.77E-11	2.09E-09
ENSMUSG00000085944	68.23778759	-1.601496585	0.333765019	-4.798275714	1.60E-06	2.31E-05
ENSMUSG00000044312	509.9286112	-1.60098383	0.270209376	-5.924975125	3.12E-09	7.60E-08
ENSMUSG00000026173	15.76511093	-1.600656995	0.679671929	-2.355043554	0.018520535	0.070135243
ENSMUSG00000070823	50.44952093	-1.600552592	0.363237032	-4.406358526	1.05E-05	0.000124303
ENSMUSG00000014609	38.83529343	-1.599048494	0.491097573	-3.256070855	0.001129656	0.007349022
ENSMUSG00000111097	27.09901979	-1.595210785	0.471231242	-3.385197419	0.000711271	0.004986498
ENSMUSG00000085347	17.52334284	-1.594794794	0.617322986	-2.5834042	0.009783063	0.042645053
ENSMUSG00000075284	1053.054841	-1.593939354	0.133274097	-11.9598586	5.77E-33	1.19E-30
ENSMUSG00000087028	38.58533363	-1.592913471	0.395359534	-4.029025059	5.60E-05	0.000552921

ENSMUSG00000085601	21.53697978	-1.58875311	0.572148061	-2.776821628	0.005489329	0.026781347
ENSMUSG00000112501	288.5898529	-1.588591073	0.20270665	-7.83689669	4.62E-15	2.34E-13
ENSMUSG00000081967	14.12032095	-1.587606213	0.726739412	-2.184560501	0.028921087	0.099547639
ENSMUSG00000049988	18.13562539	-1.586832536	0.631532798	-2.512668447	0.011982189	0.04991126
ENSMUSG00000084343	12.05604312	-1.58523021	0.694959678	-2.281039119	0.022546132	0.082023049
ENSMUSG00000016763	39.38472454	-1.584632658	0.439971669	-3.601669761	0.00031618	0.002495974
ENSMUSG00000062380	62.60689229	-1.58394241	0.376873091	-4.202853553	2.64E-05	0.000281914
ENSMUSG00000115688	91.457055	-1.582231073	0.27019963	-5.855785496	4.75E-09	1.12E-07
ENSMUSG00000039179	14.90370402	-1.581753951	0.687189313	-2.301773208	0.021347965	0.078561216
ENSMUSG00000022594	21.53353352	-1.579829669	0.586381854	-2.694199451	0.007055793	0.032829384
ENSMUSG00000047197	15.1755191	-1.578812862	0.694012076	-2.274906902	0.022911515	0.083015887
ENSMUSG00000047443	1283.074937	-1.578566885	0.118272851	-13.34682369	1.24E-40	3.88E-38
ENSMUSG00000099139	20.62321991	-1.578275711	0.572340476	-2.757581853	0.005823063	0.028071797
ENSMUSG00000005803	1110.347812	-1.578101542	0.159703426	-9.881450752	5.01E-23	5.13E-21
ENSMUSG00000081965	38.16096043	-1.576732427	0.4118238	-3.828657853	0.000128844	0.00114401
ENSMUSG00000108129	16.70925207	-1.576342208	0.596542179	-2.642465635	0.008230482	0.037200643
ENSMUSG00000029059	845.4731313	-1.57418278	0.181365947	-8.679593977	3.97E-18	2.76E-16
ENSMUSG00000011486	11.65332339	-1.573188314	0.796662146	-1.974724569	0.048299413	0.147410047
ENSMUSG00000031075	54.72053125	-1.572933954	0.342810813	-4.588344051	4.47E-06	5.85E-05
ENSMUSG00000024011	11.51037195	-1.572022198	0.718088679	-2.189175576	0.028584081	0.098692304
ENSMUSG00000066721	11.30650341	-1.571578675	0.7865683	-1.998019339	0.045714564	0.14161418
ENSMUSG00000081829	20.10848067	-1.567981722	0.552755959	-2.836661817	0.004558787	0.02298045
ENSMUSG00000090071	21.21927056	-1.567161157	0.562112427	-2.787985253	0.005303696	0.026035157
ENSMUSG00000060962	12.62200048	-1.567031714	0.73529533	-2.131159619	0.033075995	0.110637034
ENSMUSG00000028950	12.1742997	-1.566897924	0.721566681	-2.171522001	0.029891736	0.101991371
ENSMUSG00000036766	21.30210765	-1.566089338	0.570223282	-2.746449305	0.00602442	0.028818228
ENSMUSG00000024366	217.7253932	-1.564963334	0.268607414	-5.826210499	5.67E-09	1.32E-07
ENSMUSG00000085376	17.53481945	-1.564886439	0.69909581	-2.238443451	0.025192151	0.089602897
ENSMUSG00000030587	2325.434994	-1.562971763	0.168829167	-9.257711757	2.09E-20	1.74E-18

ENSMUSG00000005958	5810.427167	-1.562461121	0.104687621	-14.92498448	2.27E-50	9.72E-48
ENSMUSG00000021209	155.1174272	-1.559833089	0.235955279	-6.610714941	3.82E-11	1.23E-09
ENSMUSG00000044522	16.69967519	-1.559369363	0.626494658	-2.489038562	0.012808907	0.052516734
ENSMUSG00000028654	4407.75569	-1.559106541	0.140986958	-11.05851605	1.99E-28	2.96E-26
ENSMUSG00000112682	16.49486085	-1.558606093	0.619520797	-2.515825296	0.011875403	0.049557142
ENSMUSG00000046697	210.7118975	-1.557864904	0.291899881	-5.336983697	9.45E-08	1.78E-06
ENSMUSG00000036185	17.33267149	-1.55667093	0.592753424	-2.626169444	0.008635182	0.038653267
ENSMUSG00000009633	22.19858605	-1.554241974	0.62179964	-2.499586483	0.012433835	0.051282957
ENSMUSG00000049532	60.51872907	-1.553844988	0.348496725	-4.458707579	8.25E-06	0.000100154
ENSMUSG00000061517	40.09938181	-1.552864612	0.548021186	-2.833584998	0.004602907	0.023171426
ENSMUSG00000014852	10.51520621	-1.55184709	0.775551531	-2.000959354	0.04539677	0.140883162
ENSMUSG00000078630	45.61492395	-1.550448449	0.392813843	-3.947031082	7.91E-05	0.000748662
ENSMUSG00000043621	143.1953597	-1.550344066	0.276854033	-5.599860864	2.15E-08	4.52E-07
ENSMUSG00000094091	58.92974686	-1.548233341	0.488462172	-3.16960745	0.00152645	0.009414094
ENSMUSG00000045775	742.181557	-1.546479135	0.253982336	-6.088923973	1.14E-09	2.94E-08
ENSMUSG00000005202	11.27644654	-1.543703229	0.74212577	-2.080109992	0.037515445	0.121745045
ENSMUSG00000027605	4301.474042	-1.54172988	0.148155205	-10.40618101	2.32E-25	2.83E-23
ENSMUSG00000025743	34.36060625	-1.540270462	0.46782046	-3.292439284	0.000993223	0.006604018
ENSMUSG00000099590	16.62070507	-1.539872791	0.67796329	-2.271321785	0.023127505	0.083681662
ENSMUSG00000112652	83.52077365	-1.537951961	0.33345314	-4.612198166	3.98E-06	5.27E-05
ENSMUSG00000044986	489.854921	-1.537646486	0.204999175	-7.500744745	6.35E-14	2.80E-12
ENSMUSG00000108418	31.10894627	-1.536229416	0.456501109	-3.365226034	0.00076481	0.005291971
ENSMUSG00000018169	60.34975764	-1.535187286	0.383600623	-4.002045863	6.28E-05	0.000612883
ENSMUSG00000111936	18.48469909	-1.535005205	0.595048864	-2.57962883	0.009890656	0.042996397
ENSMUSG00000042333	2527.056808	-1.533922634	0.102000808	-15.03833808	4.12E-51	1.84E-48
ENSMUSG00000069227	21.99080823	-1.533209625	0.573300242	-2.674357192	0.007487266	0.034463057
ENSMUSG00000040424	90.48119239	-1.533205893	0.302334651	-5.071221202	3.95E-07	6.49E-06
ENSMUSG00000014846	134.9893119	-1.530622247	0.325743146	-4.698862482	2.62E-06	3.60E-05
ENSMUSG00000058260	29.84835239	-1.528827588	0.497956169	-3.070205136	0.002139118	0.012435993

ENSMUSG00000036422	1486.539124	-1.528777154	0.113878159	-13.42467393	4.33E-41	1.40E-38
ENSMUSG00000031551	20.07801584	-1.528542255	0.739123174	-2.068048072	0.038635503	0.124762576
ENSMUSG00000020135	142.5189595	-1.52848665	0.345108752	-4.428999969	9.47E-06	0.000113265
ENSMUSG00000043036	22.22150933	-1.52821173	0.52924594	-2.887526603	0.003882838	0.02015623
ENSMUSG00000022537	170.2661561	-1.526831689	0.242339373	-6.300386395	2.97E-10	8.37E-09
ENSMUSG00000081884	75.81993555	-1.525727367	0.312751969	-4.87839412	1.07E-06	1.60E-05
ENSMUSG00000039372	28.78607083	-1.523720277	0.506328348	-3.0093521	0.002618055	0.014740027
ENSMUSG00000114022	30.05662892	-1.521679049	0.497889794	-3.056256758	0.002241192	0.012931651
ENSMUSG00000057729	171.9613293	-1.520624046	0.266241062	-5.711455746	1.12E-08	2.47E-07
ENSMUSG00000055197	121.2131459	-1.519058868	0.265460362	-5.722356655	1.05E-08	2.32E-07
ENSMUSG00000039452	93.43249489	-1.518407164	0.290669583	-5.223825448	1.75E-07	3.13E-06
ENSMUSG00000078486	88.44021678	-1.518006776	0.375196548	-4.045897505	5.21E-05	0.00052032
ENSMUSG00000032591	28.89350002	-1.515662969	0.507376512	-2.987254896	0.002814949	0.015615965
ENSMUSG00000033882	18.01604544	-1.51554012	0.583515154	-2.597259229	0.009397097	0.041325549
ENSMUSG00000085733	45.53211237	-1.515461915	0.395001531	-3.836597571	0.000124751	0.001111048
ENSMUSG00000007989	57.10059509	-1.514819603	0.510853714	-2.965270804	0.003024166	0.016554228
ENSMUSG00000050122	49.07904133	-1.514248689	0.388833198	-3.894340028	9.85E-05	0.000904407
ENSMUSG00000070803	798.8767066	-1.513736481	0.161810563	-9.354991742	8.36E-21	7.14E-19
ENSMUSG00000087496	18.59450518	-1.513050868	0.621836806	-2.433196062	0.014966194	0.059475747
ENSMUSG00000026435	24.38211596	-1.509159623	0.534803368	-2.821896256	0.004774062	0.023904094
ENSMUSG00000001025	95.05465516	-1.507798446	0.306807719	-4.914473637	8.90E-07	1.36E-05
ENSMUSG00000086567	56.16367346	-1.506600225	0.342593501	-4.397632242	1.09E-05	0.000129063
ENSMUSG00000031957	12.39674697	-1.504600475	0.702381132	-2.142142501	0.032182017	0.108281707
ENSMUSG00000003271	289.8253586	-1.504028012	0.193718523	-7.76398656	8.23E-15	4.05E-13
ENSMUSG00000041592	26.27485587	-1.503207805	0.563435958	-2.667930195	0.007632011	0.035006476
ENSMUSG00000050132	26.51805498	-1.502850936	0.494227323	-3.04080909	0.002359434	0.013491727
ENSMUSG00000085471	61.67272996	-1.502718232	0.369211625	-4.070072907	4.70E-05	0.00047555
ENSMUSG00000092216	23.53385479	-1.502058208	0.535663555	-2.804107533	0.005045607	0.025016027
ENSMUSG00000105404	16.82154401	-1.501231045	0.643767439	-2.331946219	0.019703521	0.073578066

ENSMUSG00000097426	19.28101843	-1.50073986	0.706113343	-2.125352642	0.033557199	0.111833605
ENSMUSG00000113876	24.44367458	-1.500477486	0.498630385	-3.009197854	0.002619385	0.014743791
ENSMUSG00000049598	21.32663251	-1.497705893	0.631798434	-2.370543853	0.017761937	0.067850112
ENSMUSG00000048001	70.30618745	-1.489940392	0.330864627	-4.503172208	6.69E-06	8.35E-05
ENSMUSG00000061878	65.48133249	-1.489561198	0.382761288	-3.891619259	9.96E-05	0.000913858
ENSMUSG00000048385	17.68229972	-1.488783423	0.671707336	-2.216416798	0.02666297	0.093713302
ENSMUSG00000022878	12.27226097	-1.488077167	0.733415492	-2.028968822	0.042461466	0.133804317
ENSMUSG00000002885	1152.228424	-1.486301247	0.158199848	-9.39508645	5.72E-21	5.02E-19
ENSMUSG00000030725	1459.400974	-1.486288117	0.130498096	-11.38934712	4.73E-30	7.92E-28
ENSMUSG00000105352	17.87917087	-1.486002975	0.614533534	-2.418099083	0.015601828	0.061397061
ENSMUSG00000010154	1925.356877	-1.485797822	0.156283009	-9.507097593	1.96E-21	1.81E-19
ENSMUSG00000111895	19.27678856	-1.484970928	0.574641449	-2.584169541	0.00976138	0.0425755
ENSMUSG00000099655	121.3220327	-1.484836423	0.270899491	-5.481134044	4.23E-08	8.44E-07
ENSMUSG00000104158	23.67114563	-1.484045066	0.497287507	-2.98427981	0.002842467	0.015741211
ENSMUSG00000049350	2471.312101	-1.480807821	0.66475407	-2.227602488	0.025907035	0.091537961
ENSMUSG00000081437	14.16208301	-1.480625333	0.644513384	-2.297276317	0.021603012	0.079276544
ENSMUSG00000111661	20.04256067	-1.479009054	0.628160446	-2.354508413	0.018547224	0.07020055
ENSMUSG00000025427	18.25241849	-1.477504605	0.696941032	-2.119985103	0.034007302	0.112950807
ENSMUSG00000092284	128.0772397	-1.47650306	0.288442769	-5.118877021	3.07E-07	5.19E-06
ENSMUSG00000026963	34.21261987	-1.476383811	0.444285678	-3.323050654	0.000890387	0.006046447
ENSMUSG00000028763	10776.87795	-1.476313576	0.114640715	-12.87774219	6.01E-38	1.63E-35
ENSMUSG00000020437	449.982629	-1.475629607	0.179081893	-8.239971028	1.72E-16	9.80E-15
ENSMUSG00000024033	24.10889446	-1.475125177	0.520753259	-2.832675842	0.004616017	0.023220315
ENSMUSG00000044387	62.31539832	-1.473249505	0.36466474	-4.04001084	5.34E-05	0.000531413
ENSMUSG00000081249	37.94657796	-1.473050326	0.448585024	-3.283770628	0.001024282	0.006776403
ENSMUSG00000047730	68140.8179	-1.470816938	0.173718265	-8.466679878	2.52E-17	1.60E-15
ENSMUSG00000030930	251.9590349	-1.469939453	0.197448606	-7.444668687	9.72E-14	4.21E-12
ENSMUSG00000015468	350.9960034	-1.46802358	0.18531654	-7.92170834	2.34E-15	1.22E-13
ENSMUSG00000013523	267.7876854	-1.466949904	0.197798314	-7.416392372	1.20E-13	5.11E-12

ENSMUSG00000026564	20.41308323	-1.466365713	0.550290806	-2.664710546	0.007705461	0.035278073
ENSMUSG00000102599	19.33180692	-1.466136835	0.660544741	-2.219587475	0.026446783	0.093070808
ENSMUSG00000053263	45.14992714	-1.463943502	0.44210791	-3.311280956	0.000928699	0.006258966
ENSMUSG00000094928	14.46679653	-1.463892774	0.638543553	-2.292549609	0.021873948	0.080014114
ENSMUSG00000115389	15.42221946	-1.462986075	0.701569678	-2.085304029	0.037041712	0.12048764
ENSMUSG00000053647	442.4594121	-1.462617694	0.208713154	-7.007788749	2.42E-12	8.98E-11
ENSMUSG00000103409	27.55869637	-1.461117857	0.572985602	-2.550007979	0.010772045	0.045976533
ENSMUSG00000050822	53.70022936	-1.460551046	0.379389538	-3.849739907	0.000118243	0.001057739
ENSMUSG00000017211	82.18292847	-1.459638188	0.469787256	-3.107019549	0.001889839	0.011244744
ENSMUSG00000024029	8237.450994	-1.459189244	0.140000519	-10.42274165	1.95E-25	2.41E-23
ENSMUSG00000006575	132.9311943	-1.458315025	0.311669728	-4.67903968	2.88E-06	3.91E-05
ENSMUSG00000029420	484.8400639	-1.458044929	0.226767566	-6.429689014	1.28E-10	3.82E-09
ENSMUSG00000017466	62.05622914	-1.457128785	0.359415701	-4.054160071	5.03E-05	0.00050485
ENSMUSG00000039543	16.25808492	-1.454242144	0.628813244	-2.312677348	0.020740385	0.076721862
ENSMUSG00000027674	46.46781407	-1.45389072	0.589676737	-2.465572453	0.013679451	0.055436204
ENSMUSG00000036211	35.90361872	-1.453508859	0.434537799	-3.344953793	0.000822963	0.005641836
ENSMUSG00000068327	17.15973243	-1.451039167	0.645320544	-2.248555667	0.02454078	0.087691704
ENSMUSG00000002808	75.61429681	-1.450200939	0.287693102	-5.040791486	4.64E-07	7.52E-06
ENSMUSG00000086460	14.46265478	-1.449332175	0.668130965	-2.169233653	0.030064949	0.102472633
ENSMUSG00000023966	38.30229772	-1.449047743	0.405520173	-3.57330619	0.000352502	0.002744815
ENSMUSG00000055567	15.22264465	-1.448261635	0.624366278	-2.319570558	0.02036412	0.075501287
ENSMUSG00000036915	20.65841116	-1.447580852	0.532265279	-2.719660493	0.006534897	0.030830283
ENSMUSG00000017165	34.12199914	-1.446668381	0.483462115	-2.992309708	0.002768752	0.015409519
ENSMUSG00000037263	24.00389942	-1.445144145	0.5778476	-2.500908795	0.012387508	0.051136198
ENSMUSG00000085830	148.2299323	-1.443814184	0.273452237	-5.279950157	1.29E-07	2.37E-06
ENSMUSG00000051054	64.09755909	-1.442838241	0.335768403	-4.297123335	1.73E-05	0.000195675
ENSMUSG00000039145	5279.457098	-1.44201201	0.129907396	-11.10030728	1.25E-28	1.95E-26
ENSMUSG00000037016	65.02151792	-1.440446748	0.373371075	-3.85794949	0.000114342	0.001028619
ENSMUSG00000115338	253.0521936	-1.438987827	0.262489435	-5.482079026	4.20E-08	8.41E-07

ENSMUSG00000092383	24.26625447	-1.438815551	0.518343403	-2.775796011	0.005506675	0.026842481
ENSMUSG00000043286	290.4648476	-1.437896674	0.213644613	-6.730320288	1.69E-11	5.67E-10
ENSMUSG00000034457	91.21586019	-1.436141794	0.398692912	-3.602125222	0.000315626	0.002494253
ENSMUSG00000044083	63.40658751	-1.436104806	0.329991762	-4.351941384	1.35E-05	0.000156487
ENSMUSG00000086001	12.46651536	-1.43512401	0.68092981	-2.107594629	0.035066069	0.115613305
ENSMUSG00000032773	99.8922414	-1.434469472	0.290167669	-4.943588222	7.67E-07	1.19E-05
ENSMUSG00000063646	3441.373264	-1.434058733	0.109922495	-13.04608972	6.69E-39	1.94E-36
ENSMUSG00000023387	35.40480712	-1.431686479	0.431965973	-3.31435013	0.000918564	0.006209426
ENSMUSG00000018830	17.31496784	-1.429830355	0.598489248	-2.389066067	0.016891265	0.06526197
ENSMUSG00000004113	33.02426011	-1.428717253	0.466038941	-3.065660672	0.002171896	0.012600277
ENSMUSG00000025355	15.0805673	-1.428405524	0.638501465	-2.237121764	0.025278383	0.089823648
ENSMUSG00000056738	66.43860525	-1.428286043	0.347310687	-4.112416044	3.92E-05	0.000402013
ENSMUSG00000030897	180.5137791	-1.428245215	0.302395409	-4.723104823	2.32E-06	3.23E-05
ENSMUSG00000010080	1666.017345	-1.428061922	0.13365966	-10.68431511	1.21E-26	1.57E-24
ENSMUSG00000030399	52.11938841	-1.427706629	0.378024187	-3.776760002	0.000158882	0.001366456
ENSMUSG00000040605	158.6496728	-1.426912293	0.267310188	-5.338039308	9.40E-08	1.78E-06
ENSMUSG00000015599	31.14324509	-1.426900268	0.665323137	-2.144672548	0.031979037	0.107761334
ENSMUSG00000047507	377.1447518	-1.426618825	0.198906258	-7.172317437	7.37E-13	2.91E-11
ENSMUSG000000109508	38.14841084	-1.425246542	0.43267717	-3.294018362	0.00098766	0.00658273
ENSMUSG00000008129	35.90834227	-1.423959318	0.472039103	-3.016613051	0.002556159	0.014435274
ENSMUSG00000025780	370.5586443	-1.422083272	0.218039201	-6.522144953	6.93E-11	2.13E-09
ENSMUSG00000047228	35.2587045	-1.419545577	0.411496926	-3.449711256	0.000561186	0.004080541
ENSMUSG000000110569	23.42970416	-1.417639922	0.623702157	-2.272943754	0.02302957	0.083387309
ENSMUSG00000013076	535.6173331	-1.41761041	0.254993704	-5.559393774	2.71E-08	5.56E-07
ENSMUSG00000066705	26.2118972	-1.416703064	0.566954133	-2.498796608	0.012461581	0.051368894
ENSMUSG00000026463	40.74490185	-1.41597026	0.43372786	-3.264651386	0.001095989	0.007184493
ENSMUSG00000036770	551.955486	-1.414594077	0.168446986	-8.397859258	4.55E-17	2.81E-15
ENSMUSG00000079588	59.68411393	-1.412248436	0.369905899	-3.817858651	0.000134615	0.001184708
ENSMUSG00000085663	11.80338994	-1.411256614	0.701173531	-2.012706628	0.044145502	0.13782568



ENSMUSG00000047733	19.42932705	-1.407954215	0.575671853	-2.445758302	0.014454787	0.057925642
ENSMUSG00000040231	99.60741212	-1.407490015	0.321174321	-4.382324242	1.17E-05	0.000137675
ENSMUSG00000086287	36.89066474	-1.406686337	0.395449144	-3.557186448	0.000374848	0.002896565
ENSMUSG00000079442	112.4648548	-1.405434992	0.380223934	-3.696334885	0.000218734	0.001814731
ENSMUSG00000026686	62.07581582	-1.403990656	0.385021015	-3.646529934	0.000265806	0.002142295
ENSMUSG00000108832	21.86595528	-1.403238116	0.534913916	-2.623297083	0.00870833	0.038887559
ENSMUSG00000034796	26.26164255	-1.403128704	0.488415158	-2.872819734	0.004068262	0.020967485
ENSMUSG00000049897	74.90683399	-1.403095213	0.286093667	-4.904321125	9.38E-07	1.42E-05
ENSMUSG00000110631	9723.154479	-1.403040962	0.416389567	-3.369539183	0.00075294	0.005227316
ENSMUSG00000115009	68.60679857	-1.40085588	0.377046429	-3.715340532	0.00020293	0.001698658
ENSMUSG00000105839	56.19548617	-1.40026465	0.463308386	-3.02231665	0.00250848	0.014201983
ENSMUSG00000063632	33.0270478	-1.399716131	0.437263754	-3.201079713	0.001369136	0.0086033
ENSMUSG00000031809	13.50572026	-1.397211738	0.660258129	-2.11615984	0.034331216	0.113813057
ENSMUSG00000031766	276.3323236	-1.394825667	0.243542366	-5.727240359	1.02E-08	2.27E-07
ENSMUSG00000027314	1713.544696	-1.393219378	0.178208246	-7.817928785	5.37E-15	2.69E-13
ENSMUSG00000110266	861.0201667	-1.393166808	0.246018853	-5.662845715	1.49E-08	3.22E-07
ENSMUSG00000041798	49.1142854	-1.39191814	0.367689203	-3.785583388	0.000153348	0.001323973
ENSMUSG00000100022	66.79746742	-1.391789543	0.3388254	-4.107689514	4.00E-05	0.000409761
ENSMUSG00000063428	118.3496896	-1.391024256	0.328236848	-4.237867453	2.26E-05	0.000245358
ENSMUSG00000030606	65.79248151	-1.390995489	0.366779297	-3.792459119	0.000149163	0.001294854
ENSMUSG00000085042	1135.12717	-1.388928261	0.188556509	-7.36611145	1.76E-13	7.30E-12
ENSMUSG00000109649	14.03562182	-1.388794498	0.635901865	-2.183976135	0.028964002	0.099633843
ENSMUSG00000113167	38.95875534	-1.387687021	0.436515026	-3.179013181	0.001477774	0.009158675
ENSMUSG00000016995	211.7896976	-1.387500571	0.312257694	-4.443447184	8.85E-06	0.000106603
ENSMUSG00000019320	3918.525641	-1.387474685	0.104145657	-13.32244403	1.71E-40	5.24E-38
ENSMUSG00000070025	17.02385451	-1.387420508	0.632610474	-2.193167146	0.028295339	0.097998812
ENSMUSG00000034675	118.745615	-1.387196762	0.333610378	-4.158134314	3.21E-05	0.000336568
ENSMUSG00000037736	889.0197069	-1.380546061	0.168197331	-8.207895153	2.25E-16	1.26E-14
ENSMUSG00000038517	92.59020181	-1.380053884	0.304670124	-4.529665947	5.91E-06	7.47E-05

ENSMUSG00000060621	25.40396253	-1.378420346	0.52052869	-2.648115988	0.008094175	0.036688657
ENSMUSG00000052727	224.6077446	-1.377092458	0.212113718	-6.492236675	8.46E-11	2.59E-09
ENSMUSG00000089935	24.40173093	-1.37665824	0.514255203	-2.676994286	0.00742859	0.0342637
ENSMUSG00000031538	293.7284663	-1.375929817	0.210841296	-6.525902854	6.76E-11	2.09E-09
ENSMUSG00000038132	79.04779559	-1.375779192	0.370698845	-3.711312324	0.000206188	0.001722813
ENSMUSG00000055976	1153.648051	-1.371640555	0.163652931	-8.38139924	5.23E-17	3.20E-15
ENSMUSG00000110626	27.14893414	-1.370031503	0.458605995	-2.987382457	0.002813775	0.015613334
ENSMUSG00000025357	1897.948674	-1.369501371	0.133591707	-10.25139508	1.17E-24	1.35E-22
ENSMUSG00000030787	115.3744837	-1.368557479	0.256642912	-5.332535653	9.69E-08	1.82E-06
ENSMUSG00000002500	155.3227015	-1.366452074	0.217945829	-6.269686745	3.62E-10	1.01E-08
ENSMUSG00000074912	141.9655682	-1.365286214	0.220403484	-6.194485624	5.85E-10	1.57E-08
ENSMUSG00000037860	61.56459653	-1.36309553	0.363877838	-3.746025144	0.000179659	0.001523989
ENSMUSG00000103115	16.17221884	-1.361336739	0.660332463	-2.061592934	0.039246507	0.126260294
ENSMUSG00000034730	27.4314169	-1.361314764	0.466047841	-2.92097644	0.003489362	0.018518864
ENSMUSG00000037813	77.03421892	-1.361073613	0.314241787	-4.331294153	1.48E-05	0.000170666
ENSMUSG00000028865	41.7600514	-1.360094283	0.439033766	-3.097926373	0.001948798	0.011537073
ENSMUSG00000105105	47.33136861	-1.360063795	0.351131429	-3.873375273	0.000107338	0.000976245
ENSMUSG00000085083	17.41190278	-1.359724306	0.585748591	-2.32134456	0.020268255	0.075233415
ENSMUSG00000105387	15.10028803	-1.359177206	0.638698827	-2.128040867	0.033333695	0.111250335
ENSMUSG00000097636	26.6757995	-1.356807115	0.49055625	-2.765854304	0.005677389	0.027500317
ENSMUSG00000080888	26.81469017	-1.356803768	0.48635462	-2.789741705	0.005275011	0.02592859
ENSMUSG00000046160	124.0868456	-1.354365795	0.317117148	-4.270868991	1.95E-05	0.000216249
ENSMUSG00000000142	29949.69167	-1.350994275	0.129010593	-10.47196395	1.16E-25	1.44E-23
ENSMUSG00000057182	188.1314201	-1.35071308	0.213374985	-6.330231636	2.45E-10	6.97E-09
ENSMUSG00000092083	85.11215182	-1.34984538	0.358274654	-3.76762734	0.000164806	0.001411424
ENSMUSG00000020732	16.84921191	-1.348877611	0.584247759	-2.308742465	0.020957876	0.07734502
ENSMUSG00000076436	19.34230407	-1.347970675	0.632244653	-2.132039661	0.033003586	0.110446125
ENSMUSG00000072572	60.29599551	-1.347908406	0.422243459	-3.192254085	0.001411671	0.008825813
ENSMUSG00000066170	238.8050959	-1.34739476	0.597451882	-2.255235609	0.024118544	0.086557394

ENSMUSG00000109489	70.23179288	-1.346517789	0.303826983	-4.431857154	9.34E-06	0.000111954
ENSMUSG00000030592	19.03831321	-1.34637632	0.560043447	-2.404056914	0.016214249	0.063204678
ENSMUSG00000002257	71.11978831	-1.345516532	0.356591647	-3.773269909	0.000161122	0.001384121
ENSMUSG00000080746	36.67646447	-1.343593329	0.487700413	-2.754956309	0.005869997	0.028251975
ENSMUSG00000044770	4745.042082	-1.340710083	0.107586144	-12.46173568	1.21E-35	2.89E-33
ENSMUSG00000032769	102.2442043	-1.340364527	0.370830264	-3.614496054	0.000300932	0.002396819
ENSMUSG00000094286	26.43690307	-1.339232164	0.486180429	-2.754599081	0.005876409	0.028261765
ENSMUSG00000004864	15270.80131	-1.338750631	0.109473349	-12.22900951	2.18E-34	5.00E-32
ENSMUSG00000034041	53.05255169	-1.338414871	0.39895293	-3.354819002	0.000794169	0.00546123
ENSMUSG00000037579	83.30274548	-1.338413898	0.336176111	-3.98128795	6.85E-05	0.000662581
ENSMUSG00000040592	44.49399903	-1.336523177	0.362731609	-3.684606311	0.000229056	0.001886332
ENSMUSG00000037428	145.2241647	-1.333160273	0.386681839	-3.447693006	0.000565396	0.004105797
ENSMUSG00000026879	368.2361706	-1.332302235	0.226045128	-5.89396571	3.77E-09	9.10E-08
ENSMUSG00000041801	135.9697623	-1.331537376	0.249247582	-5.342227856	9.18E-08	1.74E-06
ENSMUSG00000023000	55.23115688	-1.330241793	0.395328172	-3.364905126	0.0007657	0.005294844
ENSMUSG00000031284	56.39746605	-1.32867009	0.387130163	-3.432101695	0.000598923	0.004321119
ENSMUSG00000029449	238.2854123	-1.328289684	0.241754224	-5.494380456	3.92E-08	7.88E-07
ENSMUSG00000002664	90.01030186	-1.326399516	0.314096687	-4.222901968	2.41E-05	0.000260585
ENSMUSG00000064177	339.294368	-1.326245593	0.217751133	-6.090648421	1.12E-09	2.92E-08
ENSMUSG00000061718	22513.36992	-1.322644908	0.118322659	-11.17828929	5.21E-29	8.30E-27
ENSMUSG00000036964	130.9980973	-1.31994529	0.327115079	-4.035109889	5.46E-05	0.0005401
ENSMUSG00000034271	70.40064229	-1.31967576	0.342817316	-3.849501469	0.000118358	0.001057921
ENSMUSG00000022415	450.4626476	-1.319431342	0.189487189	-6.963169123	3.33E-12	1.22E-10
ENSMUSG00000027350	6471.383626	-1.316762455	0.360052291	-3.657142274	0.000255043	0.002063007
ENSMUSG00000055254	26.3609875	-1.316117953	0.491896621	-2.675598686	0.007459591	0.03437267
ENSMUSG00000039133	19.52592119	-1.314784201	0.566369544	-2.321424618	0.020263938	0.075229913
ENSMUSG00000112657	259.5741234	-1.314229074	0.185405927	-7.088387605	1.36E-12	5.18E-11
ENSMUSG00000061462	145.1674143	-1.31374835	0.325492652	-4.036184352	5.43E-05	0.00053847
ENSMUSG00000086929	25.78646731	-1.31231989	0.488869191	-2.684398842	0.007266037	0.033639171

ENSMUSG00000041062	18.39916629	-1.312254523	0.637481647	-2.058497728	0.039542379	0.12699231
ENSMUSG00000026121	838.2881543	-1.31210944	0.122046205	-10.75092374	5.87E-27	7.83E-25
ENSMUSG00000022843	4301.2039	-1.307352196	0.1300381	-10.05360888	8.86E-24	9.59E-22
ENSMUSG00000023987	449.6419811	-1.303784735	0.20583708	-6.334061556	2.39E-10	6.84E-09
ENSMUSG00000100014	17.57902667	-1.303188603	0.585142856	-2.227128966	0.025938656	0.091586125
ENSMUSG00000095026	544.1902625	-1.302895199	0.206192054	-6.318842916	2.64E-10	7.46E-09
ENSMUSG00000035930	250.2280475	-1.302706533	0.191252256	-6.811457066	9.66E-12	3.34E-10
ENSMUSG00000042258	79.01139508	-1.301596745	0.291579117	-4.463957355	8.05E-06	9.79E-05
ENSMUSG00000025867	652.7968617	-1.301567133	0.192490369	-6.761725999	1.36E-11	4.61E-10
ENSMUSG00000007021	34.11722206	-1.300410885	0.451462664	-2.88043949	0.003971212	0.020529007
ENSMUSG00000098098	28.41936774	-1.300387092	0.537967876	-2.417220709	0.015639531	0.061494531
ENSMUSG00000075511	1144.744573	-1.300158551	0.144627754	-8.989689156	2.48E-19	1.89E-17
ENSMUSG00000025473	279.6260803	-1.297322789	0.194345754	-6.675333828	2.47E-11	8.10E-10
ENSMUSG00000086395	87.78696454	-1.297269693	0.292282562	-4.43840948	9.06E-06	0.00010888
ENSMUSG00000056162	101.6853694	-1.296525655	0.269662068	-4.807964514	1.52E-06	2.21E-05
ENSMUSG00000018570	877.1139304	-1.29580649	0.155393455	-8.338874297	7.50E-17	4.50E-15
ENSMUSG00000034701	228.6734422	-1.295360228	0.221134086	-5.857804419	4.69E-09	1.11E-07
ENSMUSG00000026163	21.79991903	-1.294254957	0.550865481	-2.349493665	0.018798964	0.070996731
ENSMUSG00000103217	73.4778497	-1.293553605	0.331969307	-3.896606038	9.76E-05	0.000897279
ENSMUSG00000038068	149.4202246	-1.291526587	0.247363837	-5.221161684	1.78E-07	3.17E-06
ENSMUSG00000029832	58.73953236	-1.290841576	0.334509776	-3.858905387	0.000113896	0.001025846
ENSMUSG00000035713	205.8828513	-1.290372061	0.231603096	-5.571480185	2.53E-08	5.23E-07
ENSMUSG00000112481	225.2951495	-1.289325862	0.206645364	-6.239316652	4.39E-10	1.21E-08
ENSMUSG00000082532	22.49861354	-1.286923776	0.524571954	-2.45328361	0.014155868	0.056973473
ENSMUSG00000009114	33.68771095	-1.286763104	0.506370445	-2.5411497	0.01104886	0.046915581
ENSMUSG00000023192	17.39050857	-1.286622688	0.603341899	-2.132493518	0.032966297	0.110371023
ENSMUSG00000027434	386.9499661	-1.286334304	0.27503899	-4.676916183	2.91E-06	3.95E-05
ENSMUSG00000021998	2067.121363	-1.285206856	0.157390018	-8.165745661	3.19E-16	1.76E-14
ENSMUSG00000037106	473.2011937	-1.28466914	0.243279677	-5.280626627	1.29E-07	2.36E-06

ENSMUSG00000085886	139.9616728	-1.281925237	0.22901124	-5.597652041	2.17E-08	4.57E-07
ENSMUSG00000070330	23.69012227	-1.27999534	0.5099423	-2.510078768	0.012070423	0.050173814
ENSMUSG00000034687	2522.550998	-1.279723259	0.383712041	-3.335113635	0.000852645	0.005827413
ENSMUSG00000047182	17.85965193	-1.27949651	0.570430591	-2.243036278	0.024894475	0.088742278
ENSMUSG00000112592	49.45061192	-1.278131248	0.387558927	-3.297901707	0.000974102	0.006500136
ENSMUSG00000033854	320.0068979	-1.277627085	0.579229565	-2.205735277	0.02740254	0.095510101
ENSMUSG00000018486	159.1462406	-1.277207427	0.21858316	-5.843119061	5.12E-09	1.20E-07
ENSMUSG00000031831	82.45169376	-1.275561293	0.314001174	-4.062281916	4.86E-05	0.00048993
ENSMUSG00000020325	175.4718444	-1.275432641	0.262835285	-4.852592912	1.22E-06	1.80E-05
ENSMUSG00000028041	1107.348351	-1.274773037	0.119787236	-10.64197721	1.90E-26	2.42E-24
ENSMUSG00000105532	25.80436599	-1.270983969	0.472616582	-2.68924963	0.007161284	0.033222257
ENSMUSG00000104943	35.76844639	-1.270391985	0.434233461	-2.925596711	0.003437963	0.018315488
ENSMUSG00000024112	257.3717974	-1.269709462	0.266212035	-4.769541924	1.85E-06	2.63E-05
ENSMUSG00000054932	89.95268895	-1.269332697	0.443627847	-2.86125568	0.004219666	0.021602745
ENSMUSG00000108714	18.2588007	-1.269324909	0.580956975	-2.184886255	0.028897188	0.099480732
ENSMUSG00000078586	390.1796176	-1.268564726	0.623458573	-2.03472176	0.041878877	0.13254233
ENSMUSG00000026413	4515.213049	-1.267489402	0.109135543	-11.61390113	3.50E-31	6.63E-29
ENSMUSG00000049100	43.63506402	-1.266786125	0.460764019	-2.749316511	0.005971969	0.028620389
ENSMUSG00000099767	71.33765586	-1.264999845	0.346782749	-3.647816532	0.000264478	0.002133912
ENSMUSG00000035314	1189.075421	-1.264304805	0.150095154	-8.423355246	3.66E-17	2.29E-15
ENSMUSG00000000037	215.274743	-1.263887405	0.223632352	-5.651630434	1.59E-08	3.42E-07
ENSMUSG00000042428	2104.755499	-1.263563512	0.165778216	-7.622011758	2.50E-14	1.15E-12
ENSMUSG00000073400	37.7005605	-1.26217438	0.417013396	-3.026699847	0.002472393	0.014026162
ENSMUSG00000002324	1828.854833	-1.259685807	0.452869463	-2.781564909	0.005409751	0.026468377
ENSMUSG00000009545	20476.96526	-1.2596822	0.114742311	-10.97835829	4.86E-28	7.03E-26
ENSMUSG00000113396	33.19988251	-1.259208586	0.484332652	-2.599883738	0.009325535	0.041051866
ENSMUSG00000028545	44.03307351	-1.25918651	0.368198645	-3.41985645	0.000626542	0.004480535
ENSMUSG00000056220	2467.012565	-1.258243568	0.12345259	-10.19211967	2.15E-24	2.45E-22
ENSMUSG00000064263	23.73537834	-1.256095486	0.541164418	-2.3210977	0.020281572	0.075270316

ENSMUSG00000011263	38.15666853	-1.254836611	0.464303258	-2.702622886	0.006879475	0.032163348
ENSMUSG00000044006	78.95355581	-1.254591746	0.400609177	-3.131709948	0.001737915	0.010474929
ENSMUSG00000027533	722.6856196	-1.254458383	0.152114384	-8.246809737	1.63E-16	9.30E-15
ENSMUSG00000024430	174.8751992	-1.253931772	0.246443117	-5.088118464	3.62E-07	6.01E-06
ENSMUSG00000034579	70.70579517	-1.253069546	0.360740405	-3.47360464	0.000513517	0.003794548
ENSMUSG00000075592	67.91152027	-1.252787179	0.352789947	-3.551085258	0.000383646	0.002952076
ENSMUSG00000031972	344.9479373	-1.252160498	0.208235027	-6.013207841	1.82E-09	4.58E-08
ENSMUSG00000017943	21.44732355	-1.251395569	0.616639251	-2.029380333	0.042419567	0.133691175
ENSMUSG00000053617	669.0745583	-1.251257087	0.168744135	-7.415114534	1.22E-13	5.14E-12
ENSMUSG00000025092	19.10186545	-1.250445462	0.619312637	-2.01908598	0.043478284	0.136219332
ENSMUSG00000030745	33.88273525	-1.25020525	0.510540217	-2.448788966	0.01433374	0.057537886
ENSMUSG00000091680	69.50783435	-1.248024034	0.371432682	-3.360027522	0.000779347	0.005370896
ENSMUSG00000107481	34.32428044	-1.247599761	0.506701096	-2.462200638	0.01380874	0.055889056
ENSMUSG00000089984	136.5688801	-1.243079267	0.302303178	-4.112028449	3.92E-05	0.000402504
ENSMUSG00000040340	15.21992123	-1.240962962	0.606037414	-2.047667247	0.040592615	0.129470239
ENSMUSG00000016028	2888.76421	-1.239926834	0.150956432	-8.213805898	2.14E-16	1.20E-14
ENSMUSG00000081049	2153.628687	-1.239744017	0.138258339	-8.96686612	3.05E-19	2.28E-17
ENSMUSG00000095930	46.37539318	-1.238780912	0.40795752	-3.036543884	0.002393073	0.013642105
ENSMUSG00000028926	63.12864072	-1.238659747	0.325734491	-3.802666835	0.000143147	0.001249928
ENSMUSG00000023942	1571.985717	-1.238105352	0.148281425	-8.349699603	6.84E-17	4.14E-15
ENSMUSG00000031493	74.44285613	-1.237264066	0.392645144	-3.151099876	0.001626569	0.009934449
ENSMUSG00000097702	18.03927858	-1.237042124	0.562173165	-2.200464556	0.027773952	0.096522815
ENSMUSG00000111933	15.2816695	-1.236643202	0.609943837	-2.027470608	0.042614307	0.134172196
ENSMUSG00000020451	14004.71871	-1.236458741	0.098827512	-12.51128072	6.48E-36	1.57E-33
ENSMUSG00000020826	2438.689436	-1.235468757	0.200769058	-6.153681083	7.57E-10	2.01E-08
ENSMUSG00000113389	19.86282949	-1.235321692	0.585624876	-2.109407819	0.034909395	0.115250099
ENSMUSG00000056032	240.0150964	-1.235100241	0.348254346	-3.546546528	0.000390316	0.002995331
ENSMUSG00000083894	76.81012066	-1.234822847	0.303925038	-4.062919121	4.85E-05	0.000488815
ENSMUSG00000100277	22.7222169	-1.233203129	0.543311552	-2.269790004	0.023220327	0.083887335

ENSMUSG00000060467	29.84586556	-1.233098599	0.450554808	-2.736844832	0.006203154	0.029521244
ENSMUSG00000032313	227.6460379	-1.232574633	0.235035111	-5.244214913	1.57E-07	2.82E-06
ENSMUSG00000098859	71.16279747	-1.232417779	0.293923835	-4.192983496	2.75E-05	0.000293063
ENSMUSG00000032589	697.672012	-1.231607667	0.154558633	-7.96854659	1.61E-15	8.52E-14
ENSMUSG00000021749	1728.499536	-1.229672424	0.159381671	-7.715268753	1.21E-14	5.85E-13
ENSMUSG00000032009	3479.395321	-1.228859749	0.178868327	-6.870192018	6.41E-12	2.27E-10
ENSMUSG00000024030	31.63685115	-1.228258218	0.448577541	-2.738117949	0.006179191	0.029431623
ENSMUSG00000050711	42.9506678	-1.227994904	0.417437107	-2.941748311	0.003263651	0.017576111
ENSMUSG00000097915	22.24995012	-1.22472725	0.539221766	-2.271286748	0.023129625	0.083681662
ENSMUSG00000017300	62.65181224	-1.224258122	0.369473577	-3.313520097	0.000921295	0.006222228
ENSMUSG00000027220	132.2182077	-1.224203915	0.276787709	-4.422898397	9.74E-06	0.000116325
ENSMUSG00000006546	70.0926131	-1.221896579	0.36131357	-3.381817568	0.000720079	0.005032433
ENSMUSG00000113093	203.5820982	-1.22163413	0.260870496	-4.682914119	2.83E-06	3.85E-05
ENSMUSG00000103711	429.8001405	-1.220678263	0.188743519	-6.467391676	9.97E-11	3.02E-09
ENSMUSG00000046598	9772.326596	-1.220295444	0.11121975	-10.97193123	5.21E-28	7.50E-26
ENSMUSG00000098057	91.24290442	-1.219348606	0.300081022	-4.063397941	4.84E-05	0.000488033
ENSMUSG00000031932	23.33490949	-1.218459538	0.547678981	-2.224769584	0.02609671	0.092056744
ENSMUSG00000040345	160.8832272	-1.216792857	0.264684189	-4.597149764	4.28E-06	5.62E-05
ENSMUSG00000073787	368.9015638	-1.216259089	0.278316731	-4.370053796	1.24E-05	0.000144958
ENSMUSG00000039953	7852.352394	-1.215910705	0.120384403	-10.10023457	5.51E-24	6.11E-22
ENSMUSG00000111151	31.30075536	-1.215698818	0.441369609	-2.754378175	0.005880378	0.028268658
ENSMUSG00000071176	265.0320996	-1.215599817	0.184771547	-6.578934008	4.74E-11	1.49E-09
ENSMUSG00000103532	21.41002301	-1.21538237	0.564692629	-2.152290128	0.031374511	0.106012571
ENSMUSG00000030866	1262.116482	-1.214366225	0.19058033	-6.37193895	1.87E-10	5.43E-09
ENSMUSG00000078234	122.4143153	-1.213132242	0.237623292	-5.105274959	3.30E-07	5.54E-06
ENSMUSG00000029510	39.3058582	-1.212663336	0.42481225	-2.854586551	0.004309289	0.021956009
ENSMUSG00000087669	71.05764467	-1.212572496	0.389781862	-3.110900264	0.001865179	0.011118782
ENSMUSG00000035699	216.7752865	-1.211487846	0.266267478	-4.549890409	5.37E-06	6.86E-05
ENSMUSG00000026271	1138.778968	-1.210001213	0.168846722	-7.16627007	7.71E-13	3.04E-11

ENSMUSG00000039347	179.7019609	-1.209811245	0.229956434	-5.26104542	1.43E-07	2.61E-06
ENSMUSG00000033268	29.21565174	-1.209093706	0.462755647	-2.612812426	0.008980057	0.03984262
ENSMUSG00000104351	117.0843896	-1.207541475	0.287989714	-4.193002094	2.75E-05	0.000293063
ENSMUSG00000073599	121.3959818	-1.20745156	0.269142371	-4.486293091	7.25E-06	8.94E-05
ENSMUSG00000081516	23.58654897	-1.205371652	0.517896683	-2.327436519	0.019942044	0.074289585
ENSMUSG00000045019	253.9659887	-1.204575476	0.229498745	-5.24872358	1.53E-07	2.76E-06
ENSMUSG00000113724	57.17982388	-1.203927901	0.351129	-3.428733884	0.000606404	0.004362391
ENSMUSG00000028776	606.6442447	-1.202211781	0.170632101	-7.045636625	1.85E-12	6.94E-11
ENSMUSG00000026235	1014.847489	-1.201320439	0.155994623	-7.701037504	1.35E-14	6.50E-13
ENSMUSG00000097889	48.63562042	-1.201289321	0.383218135	-3.134740275	0.001720063	0.010404832
ENSMUSG00000040488	75.69825768	-1.201227166	0.331788081	-3.620465092	0.000294074	0.002348905
ENSMUSG00000023909	1363.447655	-1.200266267	0.119647038	-10.03172572	1.11E-23	1.17E-21
ENSMUSG00000085779	210.2485774	-1.200226332	0.277446011	-4.325981571	1.52E-05	0.000174382
ENSMUSG00000080966	29.1182307	-1.200215827	0.477978205	-2.511026267	0.012038074	0.050058386
ENSMUSG00000059991	376.4751547	-1.20020764	0.208760705	-5.749202848	8.97E-09	2.03E-07
ENSMUSG00000102737	154.4500854	-1.200001359	0.244273536	-4.912531176	8.99E-07	1.37E-05
ENSMUSG00000103761	106.8290282	-1.198752875	0.283095448	-4.234447716	2.29E-05	0.000248878
ENSMUSG00000038745	21519.61939	-1.197869171	0.140463835	-8.527954327	1.49E-17	9.71E-16
ENSMUSG00000115764	36.27730502	-1.197422236	0.481377664	-2.487490231	0.012864799	0.052690152
ENSMUSG00000058741	29.00297319	-1.196506151	0.475716411	-2.515166857	0.011897606	0.049628019
ENSMUSG00000081052	23.23094209	-1.195436985	0.511714707	-2.33613959	0.019483968	0.072880235
ENSMUSG00000097726	26.40863739	-1.193649544	0.485619043	-2.457995753	0.013971483	0.056404423
ENSMUSG00000078202	4773.105619	-1.190402507	0.119706849	-9.944314116	2.67E-23	2.74E-21
ENSMUSG00000074355	85.46373229	-1.189456776	0.314177478	-3.785939027	0.000153129	0.001322593
ENSMUSG00000034573	283.2126062	-1.188978376	0.202243198	-5.878953581	4.13E-09	9.85E-08
ENSMUSG00000068699	48.5552983	-1.187514495	0.471640296	-2.517839349	0.011807716	0.049342458
ENSMUSG00000049555	130.8940162	-1.186343987	0.279794371	-4.240056667	2.23E-05	0.000243702
ENSMUSG00000102414	56.93289029	-1.186029726	0.345100313	-3.436768039	0.0005887	0.004257
ENSMUSG00000008153	61.20692027	-1.185789623	0.359270696	-3.300546452	0.000964967	0.006446896



ENSMUSG00000028186	35.71559048	-1.185529668	0.425151493	-2.788487604	0.005295477	0.026021652
ENSMUSG00000105590	49.71042185	-1.185254998	0.415397775	-2.853301269	0.004326758	0.022024888
ENSMUSG00000039208	740.0961229	-1.185210352	0.129791634	-9.131639041	6.75E-20	5.41E-18
ENSMUSG00000037025	987.3323268	-1.184485928	0.144124844	-8.218471544	2.06E-16	1.16E-14
ENSMUSG00000062874	20.33608237	-1.18255742	0.540582253	-2.187562417	0.028701492	0.098929207
ENSMUSG00000092512	27.54436663	-1.182331247	0.46144768	-2.562221671	0.010400491	0.044724519
ENSMUSG00000039110	476.4704288	-1.181399043	0.161748275	-7.303935982	2.79E-13	1.14E-11
ENSMUSG00000031981	176.8787629	-1.181111091	0.286139184	-4.12775026	3.66E-05	0.000379096
ENSMUSG00000035561	41212.99554	-1.180929759	0.139318046	-8.476502484	2.32E-17	1.47E-15
ENSMUSG00000042156	91.18118641	-1.180723016	0.270937886	-4.357910347	1.31E-05	0.000152677
ENSMUSG00000059406	35.06245949	-1.180595386	0.424119533	-2.783638324	0.005375294	0.026328668
ENSMUSG00000060402	131.4743769	-1.177737971	0.321209237	-3.666575659	0.00024582	0.002001474
ENSMUSG00000026728	291.6215237	-1.177269283	0.229478291	-5.130198935	2.89E-07	4.92E-06
ENSMUSG00000057132	136.9287341	-1.177117829	0.273180669	-4.308935311	1.64E-05	0.000186579
ENSMUSG00000035891	3188.890185	-1.176970218	0.136724725	-8.608320223	7.41E-18	5.00E-16
ENSMUSG00000062661	72.56687625	-1.176740274	0.354750404	-3.317093543	0.000909592	0.006158106
ENSMUSG00000081670	51.83770428	-1.175763734	0.369825826	-3.179236415	0.001476636	0.009158675
ENSMUSG00000096918	69.76112592	-1.175734833	0.297208868	-3.955921104	7.62E-05	0.000725356
ENSMUSG00000098994	37.94220573	-1.174693283	0.420056251	-2.796514233	0.005165714	0.025517713
ENSMUSG00000063765	145.5028538	-1.174674789	0.250040659	-4.697935105	2.63E-06	3.61E-05
ENSMUSG00000053414	3744.952069	-1.173302403	0.117193075	-10.01170419	1.35E-23	1.42E-21
ENSMUSG00000030543	41.45486675	-1.172558718	0.410203606	-2.858479787	0.004256762	0.021738048
ENSMUSG00000043629	273.6701024	-1.172282699	0.176237141	-6.651734665	2.90E-11	9.40E-10
ENSMUSG00000002908	45.48982961	-1.172051804	0.467909333	-2.504869475	0.012249659	0.05072032
ENSMUSG00000053964	48441.22534	-1.17176435	0.120574869	-9.718147439	2.52E-22	2.46E-20
ENSMUSG00000006362	775.7192241	-1.171714687	0.205634068	-5.698057238	1.21E-08	2.65E-07
ENSMUSG00000049858	606.2711825	-1.171548588	0.158681146	-7.383035842	1.55E-13	6.49E-12
ENSMUSG00000085881	48.35105871	-1.171020507	0.432488051	-2.707636673	0.006776416	0.031808221
ENSMUSG00000085826	32.31632675	-1.17092245	0.526619397	-2.223470038	0.026184122	0.092292097

ENSMUSG00000032181	53.68655635	-1.167410612	0.342551269	-3.407987991	0.000654438	0.004653895
ENSMUSG00000103731	19.1201751	-1.166567736	0.573035097	-2.035770133	0.041773443	0.132271695
ENSMUSG00000066191	220.4256164	-1.166008533	0.242201047	-4.81421756	1.48E-06	2.14E-05
ENSMUSG00000029335	1108.687027	-1.165491178	0.186098383	-6.26276897	3.78E-10	1.05E-08
ENSMUSG00000054752	1547.374132	-1.164940628	0.123552944	-9.428675616	4.15E-21	3.70E-19
ENSMUSG00000022683	33.79894736	-1.162405266	0.432612763	-2.686941687	0.007210954	0.033404962
ENSMUSG00000031448	47.82284745	-1.161762434	0.360503148	-3.222613841	0.001270267	0.0080886
ENSMUSG00000080877	20.26968733	-1.161295423	0.583814567	-1.989151159	0.046684521	0.143815826
ENSMUSG00000053550	377.0625503	-1.161122769	0.235465087	-4.93118867	8.17E-07	1.26E-05
ENSMUSG00000032251	19.62720996	-1.159685065	0.557612166	-2.079734151	0.037549924	0.121839204
ENSMUSG00000097296	59.11457709	-1.158611048	0.420560043	-2.754924217	0.005870573	0.028251975
ENSMUSG00000003341	100.5032873	-1.158058978	0.322109743	-3.595231136	0.000324104	0.002553211
ENSMUSG00000097233	98.2637115	-1.157742841	0.357552311	-3.237967724	0.001203844	0.007732411
ENSMUSG00000056724	5908.001929	-1.154867925	0.125691637	-9.188104738	4.00E-20	3.25E-18
ENSMUSG00000046589	41.83491055	-1.154752444	0.415918738	-2.776389562	0.005496631	0.026805239
ENSMUSG00000091366	22.31565655	-1.153909609	0.527698337	-2.186684187	0.028765587	0.099104179
ENSMUSG00000070489	16.81239831	-1.153639773	0.570227576	-2.023121684	0.043060603	0.135233702
ENSMUSG00000021559	69.49200054	-1.152582618	0.328034424	-3.513602635	0.000442074	0.003340794
ENSMUSG00000023044	1543.650382	-1.151325279	0.148936816	-7.730293334	1.07E-14	5.22E-13
ENSMUSG00000028838	579.358136	-1.150637038	0.180132627	-6.387721418	1.68E-10	4.94E-09
ENSMUSG00000111063	17.91309192	-1.148681782	0.551474526	-2.082928091	0.037257779	0.121067423
ENSMUSG00000025422	49.74633179	-1.147870985	0.350689898	-3.273179499	0.001063449	0.007004129
ENSMUSG00000042784	57.38276615	-1.14773461	0.380833945	-3.013740306	0.002580486	0.014550548
ENSMUSG00000030981	24.90041537	-1.147182435	0.484812038	-2.366241648	0.017969711	0.068538144
ENSMUSG00000081030	185.8492284	-1.146582734	0.260187281	-4.40675935	1.05E-05	0.000124139
ENSMUSG00000002668	37.31833653	-1.145262147	0.393186787	-2.912768655	0.003582399	0.018891246
ENSMUSG00000021265	161.7830103	-1.145069	0.246967902	-4.636509398	3.54E-06	4.71E-05
ENSMUSG00000027603	93.96303172	-1.144922104	0.292371296	-3.915986698	9.00E-05	0.000836963
ENSMUSG00000055676	37.22351787	-1.144127115	0.44754068	-2.556476242	0.010573829	0.045312637

ENSMUSG00000028003	1208.86828	-1.142700096	0.152340026	-7.500984014	6.33E-14	2.80E-12
ENSMUSG00000041025	2932.913048	-1.141813288	0.160378579	-7.119487506	1.08E-12	4.21E-11
ENSMUSG00000040249	14598.28177	-1.14153991	0.136943841	-8.335825141	7.70E-17	4.60E-15
ENSMUSG00000031955	3479.73753	-1.140744146	0.10573531	-10.78867737	3.89E-27	5.26E-25
ENSMUSG00000057706	498.9413194	-1.138429729	0.202794737	-5.613704502	1.98E-08	4.18E-07
ENSMUSG00000046854	150.4926668	-1.137328659	0.322647965	-3.524983214	0.00042351	0.003216856
ENSMUSG00000017167	454.0663461	-1.136056617	0.202054404	-5.622528358	1.88E-08	3.99E-07
ENSMUSG00000074480	1083.957812	-1.135524518	0.151443915	-7.497987096	6.48E-14	2.86E-12
ENSMUSG00000029771	53.64345746	-1.134726053	0.390183271	-2.908187354	0.003635305	0.019114836
ENSMUSG00000005360	1852.947455	-1.134339536	0.152354467	-7.445397312	9.67E-14	4.19E-12
ENSMUSG00000033697	4565.471936	-1.133069042	0.104183266	-10.87572975	1.50E-27	2.07E-25
ENSMUSG00000030730	46.48519851	-1.130327569	0.358359874	-3.154168902	0.001609559	0.009855787
ENSMUSG00000024538	388.4344932	-1.129612651	0.192733919	-5.860995596	4.60E-09	1.09E-07
ENSMUSG00000035486	55.23274809	-1.129299318	0.422118476	-2.67531364	0.007465937	0.034386175
ENSMUSG00000018740	372.0831166	-1.129185802	0.171004322	-6.603258835	4.02E-11	1.29E-09
ENSMUSG00000040127	37.2973628	-1.126789129	0.429138395	-2.62570104	0.008647073	0.038667579
ENSMUSG00000028860	359.9613657	-1.125528087	0.22447699	-5.014002051	5.33E-07	8.49E-06
ENSMUSG00000057092	656.8791225	-1.124579956	0.185796427	-6.05275339	1.42E-09	3.62E-08
ENSMUSG00000114858	31.75751343	-1.122720635	0.445922053	-2.517750863	0.011810683	0.049342458
ENSMUSG00000047281	6612.755467	-1.121470927	0.144039163	-7.785875036	6.92E-15	3.42E-13
ENSMUSG00000021719	43.12596789	-1.120004003	0.422756746	-2.649287123	0.008066177	0.03657662
ENSMUSG00000102759	292.2500583	-1.118821412	0.248944941	-4.494252446	6.98E-06	8.67E-05
ENSMUSG00000034224	33.79979004	-1.118386093	0.485669741	-2.302770789	0.021291743	0.078393125
ENSMUSG00000100106	67.7827856	-1.118341675	0.300448199	-3.722244569	0.00019746	0.001657962
ENSMUSG00000023484	208.3336145	-1.117842106	0.317667049	-3.518911101	0.000433322	0.003285791
ENSMUSG00000022440	40.0755779	-1.117768802	0.437748584	-2.553449269	0.010666182	0.045611988
ENSMUSG00000020674	2820.235516	-1.117412678	0.445467936	-2.508402035	0.012127859	0.050362346
ENSMUSG00000045912	86.89723501	-1.114219734	0.327413581	-3.40309565	0.00066627	0.004727251
ENSMUSG00000022129	127.2512499	-1.113894239	0.258505211	-4.308981751	1.64E-05	0.000186579

ENSMUSG00000039716	49.77449941	-1.112035152	0.368884367	-3.014590079	0.002573268	0.014517189
ENSMUSG00000029074	2459.39486	-1.111885708	0.141931392	-7.833966079	4.73E-15	2.39E-13
ENSMUSG00000024912	421.6282376	-1.111095125	0.296918505	-3.742087836	0.000182498	0.001544463
ENSMUSG00000032346	22.97289663	-1.110438833	0.553147998	-2.007489562	0.044697561	0.139198479
ENSMUSG00000038295	42.41877046	-1.110191305	0.377657519	-2.939677482	0.00328554	0.017657379
ENSMUSG00000000958	851.6234445	-1.108717408	0.208767733	-5.310769984	1.09E-07	2.03E-06
ENSMUSG00000042589	147.2307945	-1.107992016	0.278006486	-3.98548981	6.73E-05	0.000653229
ENSMUSG00000024143	1699.201109	-1.107713356	0.124109606	-8.925283005	4.45E-19	3.28E-17
ENSMUSG00000075553	44.53885944	-1.10757554	0.39974545	-2.770702056	0.005593558	0.027159143
ENSMUSG00000041073	187.3210674	-1.107125606	0.265399025	-4.171551149	3.03E-05	0.000319753
ENSMUSG00000029847	1865.710832	-1.106921127	0.121850096	-9.08428603	1.04E-19	8.23E-18
ENSMUSG00000046841	308.115717	-1.106379157	0.210903858	-5.245893392	1.56E-07	2.80E-06
ENSMUSG00000111692	46.46582124	-1.105346096	0.373569189	-2.958879184	0.003087601	0.016821512
ENSMUSG00000031442	2372.115914	-1.105235479	0.139596664	-7.917348762	2.43E-15	1.26E-13
ENSMUSG00000074457	431.3467435	-1.103689655	0.16423278	-6.720276292	1.81E-11	6.06E-10
ENSMUSG00000031451	3855.160004	-1.103150676	0.190745993	-5.783349153	7.32E-09	1.68E-07
ENSMUSG00000080152	55.04357192	-1.102455073	0.365433936	-3.016838244	0.002554261	0.014428209
ENSMUSG00000035164	173.4900619	-1.101224833	0.266735919	-4.128520969	3.65E-05	0.000378354
ENSMUSG00000019796	72.03961534	-1.100237788	0.296489116	-3.710887612	0.000206534	0.00172506
ENSMUSG00000070570	21.71143623	-1.096918642	0.536768577	-2.043559719	0.040997062	0.130480303
ENSMUSG00000112719	49.42197842	-1.094100889	0.359953767	-3.039559491	0.002369244	0.01353741
ENSMUSG00000108599	339.3506396	-1.093386967	0.259113763	-4.219717836	2.45E-05	0.000263527
ENSMUSG00000047793	236.5917969	-1.093189146	0.224972826	-4.859205285	1.18E-06	1.75E-05
ENSMUSG00000032892	1638.798813	-1.093038464	0.116564556	-9.377108308	6.78E-21	5.88E-19
ENSMUSG00000042371	25.86704482	-1.092491971	0.462811206	-2.360556437	0.018247542	0.069328312
ENSMUSG00000039713	1603.561375	-1.090798715	0.124859473	-8.736211109	2.41E-18	1.69E-16
ENSMUSG00000085957	168.2247221	-1.090417337	0.24522883	-4.446529956	8.73E-06	0.000105256
ENSMUSG00000002020	24.28692321	-1.08967459	0.512891745	-2.124570342	0.033622481	0.111935684
ENSMUSG00000103593	874.2337968	-1.089539785	0.230109867	-4.734867748	2.19E-06	3.06E-05

ENSMUSG00000028664	10574.4231	-1.088892707	0.094977382	-11.4647581	1.98E-30	3.53E-28
ENSMUSG00000034825	110.78743	-1.087642254	0.280133937	-3.882579397	0.000103354	0.000943086
ENSMUSG00000068877	200.3462007	-1.087478433	0.210303221	-5.171002276	2.33E-07	4.03E-06
ENSMUSG00000037306	27.18855317	-1.086892555	0.515337219	-2.109089962	0.034936817	0.115306491
ENSMUSG00000085133	1211.085964	-1.086829234	0.200322714	-5.425391914	5.78E-08	1.14E-06
ENSMUSG00000034161	61.84416573	-1.085953725	0.379314981	-2.862933918	0.004197381	0.021518573
ENSMUSG00000038456	33.57118206	-1.085809965	0.46419482	-2.339125554	0.019328937	0.072522732
ENSMUSG00000009108	162.8584785	-1.085808125	0.218090319	-4.978708502	6.40E-07	1.00E-05
ENSMUSG00000109163	31.05206609	-1.085734661	0.470259779	-2.308797623	0.020954814	0.07734502
ENSMUSG00000103183	145.1557015	-1.085714512	0.229937459	-4.721781814	2.34E-06	3.24E-05
ENSMUSG00000044461	3941.724632	-1.084271914	0.127280127	-8.518784064	1.61E-17	1.05E-15
ENSMUSG00000043432	1697.801637	-1.083490597	0.1988086	-5.449918145	5.04E-08	9.98E-07
ENSMUSG00000048807	76.56363357	-1.082778134	0.31634813	-3.422742322	0.000619928	0.004443914
ENSMUSG00000082264	28.42588761	-1.082521179	0.454596773	-2.381277745	0.017252698	0.066370955
ENSMUSG00000032899	3448.284638	-1.082268681	0.128273238	-8.437213371	3.25E-17	2.05E-15
ENSMUSG00000025575	5449.692005	-1.082220857	0.122418138	-8.840363647	9.54E-19	6.91E-17
ENSMUSG00000103309	29.72637127	-1.081437777	0.515740777	-2.096863047	0.036005701	0.118169702
ENSMUSG00000062309	126.5427833	-1.081210027	0.25939993	-4.168119958	3.07E-05	0.000323836
ENSMUSG00000001095	101.1418772	-1.080905133	0.364605296	-2.964589772	0.003030868	0.016586843
ENSMUSG00000051111	55.54835631	-1.080676135	0.385919245	-2.800264951	0.005106068	0.025254029
ENSMUSG00000038057	24.07556862	-1.078943688	0.488808959	-2.207291149	0.027293725	0.095284497
ENSMUSG00000023473	200.2781452	-1.078830974	0.256152924	-4.211667617	2.53E-05	0.00027244
ENSMUSG00000051435	146.9335706	-1.078030341	0.249805219	-4.315483666	1.59E-05	0.000182223
ENSMUSG00000040274	11652.75417	-1.077778847	0.151588088	-7.109917827	1.16E-12	4.48E-11
ENSMUSG00000097041	33.70750585	-1.077687377	0.454474624	-2.371281741	0.017726513	0.067749608
ENSMUSG00000097017	39.17324496	-1.077521398	0.482133378	-2.234903135	0.025423709	0.09019633
ENSMUSG00000101828	223.77697	-1.077190697	0.304379067	-3.538977593	0.00040168	0.003074078
ENSMUSG00000110962	23.54117995	-1.076921314	0.529884502	-2.032369902	0.042116223	0.132998284
ENSMUSG00000034911	33.72121577	-1.074479873	0.43986674	-2.442739528	0.014576253	0.058318088

ENSMUSG00000114515	159.4202545	-1.074353379	0.216696554	-4.957870171	7.13E-07	1.11E-05
ENSMUSG00000018554	380.3582248	-1.072080911	0.154928109	-6.919860572	4.52E-12	1.63E-10
ENSMUSG00000026976	60.75672847	-1.071482238	0.341824483	-3.134597701	0.001720899	0.010406122
ENSMUSG00000109621	126.9617401	-1.07067821	0.269495646	-3.972896129	7.10E-05	0.00068282
ENSMUSG00000079043	254.1066119	-1.070176467	0.308016553	-3.47441219	0.000511974	0.003784398
ENSMUSG00000042306	35.62669645	-1.06791883	0.439123038	-2.431935332	0.015018388	0.059582637
ENSMUSG00000090236	33.08959295	-1.065867442	0.431733801	-2.468807026	0.01355643	0.054957635
ENSMUSG00000045312	102.8885667	-1.06448178	0.312918537	-3.401785625	0.000669471	0.004737891
ENSMUSG00000031775	524.2148234	-1.063390251	0.168986495	-6.292752888	3.12E-10	8.78E-09
ENSMUSG00000025347	283.2113613	-1.062592385	0.252965025	-4.200550583	2.66E-05	0.000284524
ENSMUSG00000108784	28.41087556	-1.060425366	0.452008564	-2.34602937	0.018974612	0.071478518
ENSMUSG00000045467	224.017238	-1.060071354	0.286776483	-3.696507274	0.000218586	0.001814174
ENSMUSG00000038967	2213.583836	-1.059440635	0.184565767	-5.740179522	9.46E-09	2.12E-07
ENSMUSG00000071711	1264.875917	-1.058900983	0.160926456	-6.580030463	4.70E-11	1.48E-09
ENSMUSG00000102717	28.7473308	-1.058078465	0.528897839	-2.000534673	0.04544256	0.14095376
ENSMUSG00000020312	55.55199068	-1.057809536	0.419705986	-2.52035847	0.011723537	0.049051896
ENSMUSG00000029130	1313.404306	-1.057737954	0.167031205	-6.33257691	2.41E-10	6.89E-09
ENSMUSG00000035852	10607.78701	-1.057539284	0.111506793	-9.484079451	2.45E-21	2.21E-19
ENSMUSG00000000394	271.9545991	-1.056752934	0.269396848	-3.922662585	8.76E-05	0.000817508
ENSMUSG00000025026	16311.08539	-1.055926431	0.114868339	-9.192493239	3.84E-20	3.14E-18
ENSMUSG00000097316	120.0237183	-1.05396867	0.244676175	-4.307606457	1.65E-05	0.000187582
ENSMUSG00000020173	2976.201001	-1.053829646	0.148108713	-7.115244095	1.12E-12	4.33E-11
ENSMUSG00000006464	221.5678733	-1.052063319	0.195807403	-5.372949655	7.75E-08	1.50E-06
ENSMUSG00000030403	9380.945579	-1.051358915	0.098443141	-10.6798595	1.26E-26	1.64E-24
ENSMUSG00000027489	117.4690916	-1.051036006	0.278040793	-3.780150365	0.000156734	0.001350065
ENSMUSG00000018378	634.5400078	-1.050043667	0.137322912	-7.646529273	2.06E-14	9.71E-13
ENSMUSG00000030342	1966.469848	-1.048903304	0.134097251	-7.821959796	5.20E-15	2.61E-13
ENSMUSG00000114995	143.5910085	-1.048603032	0.34145395	-3.070994	0.002133474	0.012409654
ENSMUSG00000021763	49.58464857	-1.048363408	0.408123245	-2.568742214	0.010206835	0.044078745

ENSMUSG00000073530	131.2529357	-1.048267039	0.394652586	-2.656176789	0.007903217	0.035976657
ENSMUSG00000006462	363.4870684	-1.048161097	0.198302781	-5.285660088	1.25E-07	2.31E-06
ENSMUSG00000074039	181.1404286	-1.047812844	0.216452765	-4.840838338	1.29E-06	1.90E-05
ENSMUSG00000040183	33.59848262	-1.047801964	0.504106102	-2.07853458	0.037660149	0.122108024
ENSMUSG00000041351	1730.83516	-1.047749249	0.174287957	-6.011598679	1.84E-09	4.62E-08
ENSMUSG00000018381	320.8009379	-1.046753764	0.231578531	-4.520081207	6.18E-06	7.77E-05
ENSMUSG00000034785	304.6596866	-1.045214034	0.244709608	-4.271242322	1.94E-05	0.000215995
ENSMUSG00000053461	69.83898581	-1.044902634	0.32457062	-3.219338316	0.001284868	0.008147239
ENSMUSG00000061414	1764.677444	-1.044018013	0.371537865	-2.809990882	0.00495429	0.024678497
ENSMUSG00000063903	1095.28982	-1.043140151	0.245303085	-4.252454264	2.11E-05	0.000232511
ENSMUSG00000110622	6945.633117	-1.042760021	0.152209849	-6.850805158	7.34E-12	2.57E-10
ENSMUSG00000032500	69.12046314	-1.042545646	0.402241341	-2.591841113	0.009546385	0.041824462
ENSMUSG00000031893	38.35734104	-1.042202291	0.444310107	-2.345664151	0.018993213	0.071536505
ENSMUSG00000044320	151.145041	-1.041442872	0.242334394	-4.297544632	1.73E-05	0.000195403
ENSMUSG00000025854	694.2473601	-1.041123347	0.189486923	-5.494433757	3.92E-08	7.88E-07
ENSMUSG00000028909	119.5198355	-1.039653953	0.259135425	-4.012010147	6.02E-05	0.000590157
ENSMUSG00000110218	222.4781917	-1.039306831	0.22927934	-4.532928405	5.82E-06	7.38E-05
ENSMUSG00000078695	1474.354053	-1.038929463	0.140419968	-7.398730226	1.37E-13	5.79E-12
ENSMUSG00000108649	201.8017388	-1.037512895	0.283304353	-3.662184794	0.000250073	0.002030913
ENSMUSG00000113068	39.20725345	-1.034737226	0.43584323	-2.374104161	0.017591587	0.067360918
ENSMUSG00000107240	462.6486325	-1.033854264	0.278174349	-3.716569368	0.000201946	0.001691176
ENSMUSG00000085651	160.5263494	-1.033739018	0.290027372	-3.564280887	0.000364855	0.002830133
ENSMUSG00000036306	58.84811164	-1.033633448	0.344082019	-3.004032152	0.002664272	0.014947402
ENSMUSG00000110030	95.52621749	-1.033373664	0.311691908	-3.315368917	0.000915223	0.006188714
ENSMUSG00000034255	3616.520074	-1.033068081	0.100917698	-10.23673848	1.36E-24	1.55E-22
ENSMUSG00000032946	173.0668362	-1.032650669	0.239035643	-4.320069827	1.56E-05	0.000178591
ENSMUSG00000089762	1947.085679	-1.0309512	0.172199913	-5.986943784	2.14E-09	5.33E-08
ENSMUSG00000029138	21.92541184	-1.030571569	0.518516105	-1.987540135	0.046862573	0.144248756
ENSMUSG00000062044	29.54815816	-1.030383971	0.464214643	-2.219628325	0.026444008	0.093070808

ENSMUSG00000103403	36.00279006	-1.028856675	0.430860579	-2.387910903	0.016944449	0.065410794
ENSMUSG00000070331	103.028953	-1.027741003	0.33698877	-3.049778197	0.002290104	0.013162787
ENSMUSG00000090700	526.4102542	-1.027733779	0.220485529	-4.661230087	3.14E-06	4.23E-05
ENSMUSG00000035735	1237.036839	-1.027728343	0.131342443	-7.824799949	5.08E-15	2.56E-13
ENSMUSG00000113796	81.15369408	-1.027692241	0.309722248	-3.318109195	0.00090629	0.006139485
ENSMUSG00000103009	120.8433982	-1.027129355	0.271585743	-3.78197082	0.000155592	0.001341782
ENSMUSG00000045942	118.3690516	-1.02665524	0.330449528	-3.106844322	0.00189096	0.01124541
ENSMUSG00000028671	4131.955981	-1.026506359	0.098775144	-10.392355	2.69E-25	3.24E-23
ENSMUSG00000043639	227.2281498	-1.026152553	0.224306605	-4.574776364	4.77E-06	6.19E-05
ENSMUSG00000078794	70.94356217	-1.026044508	0.362592086	-2.829748768	0.004658457	0.023403525
ENSMUSG00000039693	197.627663	-1.025843518	0.188036581	-5.455552913	4.88E-08	9.70E-07
ENSMUSG00000086141	121.2518155	-1.024361949	0.340477226	-3.008606364	0.002624489	0.014766423
ENSMUSG00000053198	493.6458751	-1.024009554	0.166998534	-6.131847556	8.69E-10	2.28E-08
ENSMUSG00000110557	81.32352434	-1.023813789	0.446718827	-2.291852788	0.021914139	0.080129074
ENSMUSG00000113853	92.80061747	-1.023643029	0.271932358	-3.764329616	0.000166996	0.001428534
ENSMUSG00000033029	37.97019268	-1.022601034	0.41563951	-2.460307571	0.013881799	0.056103299
ENSMUSG00000078670	1218.741007	-1.021307287	0.120769732	-8.456649462	2.75E-17	1.74E-15
ENSMUSG00000036655	22.31205822	-1.021195293	0.498324956	-2.049255771	0.040437111	0.129085029
ENSMUSG00000032198	1637.391996	-1.019073983	0.11890539	-8.570460758	1.03E-17	6.86E-16
ENSMUSG00000059434	71.66519241	-1.018995246	0.297526844	-3.424885071	0.00061506	0.00441469
ENSMUSG00000101702	92.60734688	-1.018621463	0.294615405	-3.457461647	0.00054529	0.003983051
ENSMUSG00000066640	5272.984929	-1.018457527	0.144854992	-7.030876265	2.05E-12	7.67E-11
ENSMUSG00000023827	598.3720022	-1.018272364	0.214468634	-4.747884783	2.06E-06	2.89E-05
ENSMUSG00000020932	25.51571217	-1.017759823	0.504906737	-2.015738252	0.043827353	0.137043439
ENSMUSG00000044952	348.7999923	-1.017544682	0.176278456	-5.772371207	7.82E-09	1.78E-07
ENSMUSG00000041423	45.91404251	-1.017272057	0.369265678	-2.754851366	0.00587188	0.028252169
ENSMUSG00000035606	929.2699379	-1.016809376	0.203600538	-4.994138951	5.91E-07	9.29E-06
ENSMUSG00000074259	188.5619497	-1.016526515	0.212042258	-4.793980814	1.64E-06	2.36E-05
ENSMUSG00000028497	31.422679	-1.0164248	0.440177562	-2.309124514	0.020936673	0.077302772



ENSMUSG00000030098	78.80284223	-1.01526623	0.289037121	-3.512580758	0.000443777	0.003346863
ENSMUSG00000019982	21523.53695	-1.012517256	0.098746095	-10.25374478	1.14E-24	1.32E-22
ENSMUSG00000085307	72.57566512	-1.012173126	0.322449987	-3.139008113	0.001695208	0.010278508
ENSMUSG00000054256	5727.758164	-1.012030056	0.10008645	-10.11155911	4.91E-24	5.47E-22
ENSMUSG00000048478	40.1211055	-1.012024765	0.400422993	-2.527389245	0.011491406	0.04832346
ENSMUSG00000051579	99.55761163	-1.010018361	0.31660808	-3.19012187	0.001422128	0.00887626
ENSMUSG00000002771	212.0312499	-1.008608266	0.206805845	-4.877078142	1.08E-06	1.61E-05
ENSMUSG00000021194	1561.095626	-1.008553741	0.414352691	-2.434046557	0.014931074	0.059396698
ENSMUSG00000025359	109.8922223	-1.008326308	0.266495098	-3.783658	0.00015454	0.001333746
ENSMUSG00000045826	41.50201303	-1.007915622	0.454060546	-2.21978243	0.02643354	0.093068263
ENSMUSG00000001901	203.5807683	-1.007249099	0.239641596	-4.203148023	2.63E-05	0.000281682
ENSMUSG00000038670	123.8878704	-1.007033407	0.235028045	-4.284737202	1.83E-05	0.000205339
ENSMUSG00000096953	53.419674	-1.006949473	0.365102141	-2.757993888	0.005815729	0.028052598
ENSMUSG00000073598	384.9853947	-1.006025627	0.181801735	-5.533641495	3.14E-08	6.38E-07
ENSMUSG00000004347	100.5799437	-1.00600967	0.338602528	-2.971063671	0.002967702	0.016289129
ENSMUSG00000033949	896.1199171	-1.005483566	0.131037256	-7.673264803	1.68E-14	7.92E-13
ENSMUSG00000044628	39.36477337	-1.004698926	0.40548423	-2.477775587	0.013220427	0.053889369
ENSMUSG00000114360	29.75009487	-1.004200019	0.450202227	-2.2305532	0.02571074	0.090954189
ENSMUSG00000047528	38.73424261	-1.003134163	0.430691687	-2.329123578	0.01985252	0.074049716
ENSMUSG00000027230	1500.460842	-1.002907097	0.182417096	-5.497878877	3.84E-08	7.74E-07
ENSMUSG00000021278	762.6846357	-1.002794059	0.174514618	-5.74618946	9.13E-09	2.06E-07
ENSMUSG00000035773	110.1104869	-1.0026847	0.334737853	-2.995432668	0.002740558	0.015298419
ENSMUSG00000040412	4033.059447	-1.002134656	0.181252331	-5.528947696	3.22E-08	6.54E-07
ENSMUSG00000103791	142.4410655	-1.001553639	0.251518825	-3.982022568	6.83E-05	0.000661109
ENSMUSG00000053552	25.20240564	-1.00116768	0.478964708	-2.090274425	0.036593155	0.119534782
ENSMUSG00000085184	75.73142715	-1.001136093	0.296264902	-3.379192362	0.000726991	0.005072788
ENSMUSG00000004654	59.51451419	-1.000196683	0.359443888	-2.78262259	0.005392149	0.02639963
ENSMUSG00000106658	135.3748343	-0.999408526	0.290170759	-3.444208258	0.000572734	0.00415118
ENSMUSG00000032532	415.1479769	-0.997766763	0.224279363	-4.448767598	8.64E-06	0.000104278

ENSMUSG00000104156	512.9729434	-0.997394657	0.258193565	-3.862972559	0.000112016	0.001010951
ENSMUSG00000056973	1593.016832	-0.992636897	0.460214639	-2.156899871	0.031013467	0.105079205
ENSMUSG00000097861	122.0088798	-0.99256883	0.230124887	-4.313174652	1.61E-05	0.000183666
ENSMUSG00000074364	68.92478549	-0.992477685	0.349385253	-2.840639884	0.004502312	0.022747183
ENSMUSG00000021097	3816.092959	-0.992434247	0.119196804	-8.32601391	8.36E-17	4.95E-15
ENSMUSG00000068452	3176.562113	-0.992324832	0.390852346	-2.538873927	0.011120989	0.047150702
ENSMUSG00000021457	1195.832841	-0.992103719	0.14380367	-6.899015289	5.24E-12	1.87E-10
ENSMUSG00000016024	101.7499244	-0.991729312	0.410158538	-2.417917025	0.015609636	0.061405978
ENSMUSG00000031165	23.59857214	-0.991721561	0.492698297	-2.012837402	0.044131738	0.137802
ENSMUSG00000033405	92.54855166	-0.990906004	0.303502503	-3.26490225	0.001095019	0.007180244
ENSMUSG00000006587	114.3271475	-0.988976735	0.265509757	-3.724822563	0.000195453	0.001642966
ENSMUSG00000053886	3252.903786	-0.98893787	0.134432953	-7.356364992	1.89E-13	7.83E-12
ENSMUSG00000078238	26.70156748	-0.988380504	0.503171188	-1.96430266	0.049495003	0.15003236
ENSMUSG00000097727	33.3814674	-0.988089993	0.42964012	-2.299808487	0.021459072	0.078839996
ENSMUSG00000039878	4109.632651	-0.987310742	0.173490628	-5.690859226	1.26E-08	2.76E-07
ENSMUSG00000055216	41.72963333	-0.98690215	0.418809453	-2.356446692	0.018450716	0.069965757
ENSMUSG00000028348	36.66631658	-0.986883063	0.428693702	-2.302070356	0.021331205	0.078525454
ENSMUSG00000048779	515.2671034	-0.986774197	0.18899671	-5.221118372	1.78E-07	3.17E-06
ENSMUSG00000023995	107.0018564	-0.986408538	0.250948948	-3.930713985	8.47E-05	0.000795268
ENSMUSG00000071332	50.83630055	-0.984746181	0.335667665	-2.933693897	0.003349544	0.017947663
ENSMUSG00000042439	535.5656829	-0.984739918	0.154864403	-6.358723511	2.03E-10	5.89E-09
ENSMUSG00000078129	27.08090802	-0.984546153	0.495862034	-1.985524373	0.047086161	0.144697324
ENSMUSG00000101210	43.14649563	-0.983739329	0.437738252	-2.247323199	0.024619379	0.087944382
ENSMUSG00000062758	39.19851203	-0.983569505	0.464025766	-2.119644161	0.034036065	0.112985754
ENSMUSG00000097850	36.13843099	-0.982252089	0.424114369	-2.31600757	0.020557855	0.076156268
ENSMUSG00000049608	629.6888897	-0.97930476	0.219320793	-4.465170612	8.00E-06	9.76E-05
ENSMUSG00000048240	39.9448664	-0.978377666	0.476233579	-2.054407142	0.039936302	0.127925809
ENSMUSG00000000308	8559.195954	-0.978356643	0.117691139	-8.312916754	9.34E-17	5.47E-15
ENSMUSG00000104012	666.2108217	-0.977618839	0.192648747	-5.074618218	3.88E-07	6.40E-06

ENSMUSG00000024935	1717.776176	-0.977131013	0.165972118	-5.887320258	3.93E-09	9.42E-08
ENSMUSG00000020886	199.9220744	-0.974327417	0.253823365	-3.838604135	0.000123736	0.00110289
ENSMUSG00000037852	295.1541986	-0.973959034	0.194569004	-5.005725558	5.57E-07	8.81E-06
ENSMUSG00000050936	155.1263755	-0.973879809	0.297895924	-3.269194807	0.00107854	0.007086778
ENSMUSG00000038651	284.0343454	-0.973665436	0.247523955	-3.933621036	8.37E-05	0.000786699
ENSMUSG00000065400	178.9383964	-0.973076061	0.235714102	-4.128204685	3.66E-05	0.000378699
ENSMUSG00000031849	53.16740237	-0.972883316	0.396378692	-2.454428899	0.014110857	0.05682308
ENSMUSG00000103108	104.161274	-0.972726477	0.336479389	-2.890894681	0.003841468	0.019978681
ENSMUSG00000032128	30.26632782	-0.971770768	0.491599008	-1.976754941	0.048069337	0.146848533
ENSMUSG00000046959	36.61206013	-0.968847502	0.446085024	-2.171889773	0.029863978	0.101912253
ENSMUSG00000042750	38.06526848	-0.966178679	0.439130344	-2.200209327	0.027792047	0.096564543
ENSMUSG00000046108	75.85581998	-0.966035136	0.329037389	-2.935943356	0.00332535	0.017843753
ENSMUSG0000004665	217.8737885	-0.96581185	0.268814679	-3.592853838	0.000327076	0.002572883
ENSMUSG00000098207	1271.842222	-0.965438727	0.161930206	-5.962066928	2.49E-09	6.14E-08
ENSMUSG00000022519	1020.434183	-0.964501525	0.182633179	-5.281085993	1.28E-07	2.36E-06
ENSMUSG00000064125	27.44197766	-0.963824528	0.475086964	-2.028732846	0.042485509	0.133814065
ENSMUSG00000020758	7926.982811	-0.962219007	0.126619457	-7.599298157	2.98E-14	1.36E-12
ENSMUSG00000101849	29.74295815	-0.961646224	0.464209062	-2.071580032	0.038304624	0.123855504
ENSMUSG00000034981	731.645595	-0.96114565	0.182048514	-5.279612713	1.29E-07	2.37E-06
ENSMUSG00000087547	27.60701277	-0.959985819	0.480523375	-1.997792133	0.045739201	0.141651147
ENSMUSG00000114796	47.56402903	-0.959512903	0.3808219	-2.519584358	0.011749348	0.049132236
ENSMUSG00000081333	46.98156386	-0.958560072	0.411517044	-2.329332616	0.019841452	0.074031155
ENSMUSG00000055485	1498.685089	-0.9583765	0.127408268	-7.522090327	5.39E-14	2.41E-12
ENSMUSG00000001763	113.3636085	-0.958013107	0.241561945	-3.965910721	7.31E-05	0.000701017
ENSMUSG00000020773	59.15878608	-0.957894034	0.324152848	-2.955069008	0.003125991	0.016974125
ENSMUSG00000032496	46.12999025	-0.957784443	0.48047016	-1.993431691	0.046214197	0.142706009
ENSMUSG00000037408	5983.836843	-0.957041214	0.112458196	-8.510195294	1.74E-17	1.12E-15
ENSMUSG00000071847	189.5394418	-0.955928078	0.226430726	-4.221724217	2.42E-05	0.000261824
ENSMUSG00000033200	168.4485372	-0.954232366	0.223183554	-4.275549657	1.91E-05	0.000212304

ENSMUSG00000087589	99.89362237	-0.9528157	0.26362566	-3.61427526	0.000301189	0.002398006
ENSMUSG00000052160	58.74264375	-0.952472705	0.346221198	-2.751052536	0.005940412	0.028489703
ENSMUSG00000114388	32.92404256	-0.95179528	0.431738796	-2.204562777	0.02748479	0.095726738
ENSMUSG00000031844	136.187048	-0.951203102	0.319624391	-2.976002858	0.002920321	0.016076546
ENSMUSG00000108854	27.77359692	-0.950607526	0.462434459	-2.055658932	0.039815403	0.127611858
ENSMUSG00000053297	44.92664391	-0.950378203	0.379932742	-2.501438014	0.012369009	0.051088959
ENSMUSG00000072494	674.7494592	-0.95008285	0.166039157	-5.722040923	1.05E-08	2.33E-07
ENSMUSG00000082305	68.59415005	-0.949922361	0.320245899	-2.966228029	0.003014769	0.01650684
ENSMUSG00000025555	9452.176838	-0.949705357	0.110915096	-8.562453524	1.10E-17	7.27E-16
ENSMUSG00000039021	69.90050228	-0.949645225	0.359854392	-2.638970783	0.008315815	0.037531273
ENSMUSG00000030491	58.61875737	-0.947129423	0.356716589	-2.655131415	0.007927752	0.036051548
ENSMUSG00000110697	231.1483474	-0.946156402	0.188771807	-5.012170064	5.38E-07	8.56E-06
ENSMUSG00000020599	49.56293347	-0.946081006	0.372964421	-2.536652168	0.011191809	0.047369242
ENSMUSG00000056771	66.48758348	-0.945995368	0.34368436	-2.752512122	0.005913996	0.028381325
ENSMUSG00000086665	78.86510056	-0.945167898	0.293501384	-3.220318368	0.001280483	0.00813331
ENSMUSG00000054191	31.25476164	-0.943448481	0.445973278	-2.115482088	0.03438888	0.113953405
ENSMUSG00000076441	543.2245434	-0.94288137	0.196723482	-4.792927417	1.64E-06	2.37E-05
ENSMUSG00000043587	1914.250822	-0.942408309	0.139988418	-6.732044835	1.67E-11	5.61E-10
ENSMUSG00000019846	257.8105326	-0.941987935	0.316446787	-2.976765683	0.002913066	0.016052453
ENSMUSG00000074653	2350.967331	-0.94150391	0.185590579	-5.073015634	3.92E-07	6.44E-06
ENSMUSG00000086740	82.30773767	-0.941000222	0.445293356	-2.113214152	0.034582443	0.114441764
ENSMUSG00000054074	46.74943143	-0.939878092	0.354412432	-2.651933191	0.008003238	0.036357751
ENSMUSG00000097193	227.8968421	-0.93972099	0.212046352	-4.431677239	9.35E-06	0.000111988
ENSMUSG00000048200	925.2406672	-0.939404513	0.136984635	-6.857736355	7.00E-12	2.46E-10
ENSMUSG00000054277	3148.477929	-0.939093839	0.14217899	-6.605011311	3.97E-11	1.27E-09
ENSMUSG00000026567	55.83866498	-0.938528083	0.374189899	-2.508159857	0.012136175	0.050381392
ENSMUSG00000069805	1233.611356	-0.937728706	0.195205658	-4.803798808	1.56E-06	2.25E-05
ENSMUSG00000048038	45.30757048	-0.937520486	0.41342103	-2.267713587	0.023346669	0.084289148
ENSMUSG00000054619	691.7486253	-0.937494713	0.183929162	-5.097042278	3.45E-07	5.75E-06

ENSMUSG00000110404	53.46442153	-0.937380139	0.356331689	-2.630639281	0.008522444	0.038256647
ENSMUSG00000028347	416.9252867	-0.935987517	0.196784784	-4.756401875	1.97E-06	2.78E-05
ENSMUSG00000049097	27.44665878	-0.933360389	0.443760449	-2.103297829	0.035439743	0.116552383
ENSMUSG00000059149	362.0628708	-0.932783814	0.172934304	-5.393862252	6.90E-08	1.34E-06
ENSMUSG00000026401	143.1517347	-0.931804455	0.221349896	-4.209644876	2.56E-05	0.000274626
ENSMUSG00000070390	304.7816281	-0.931622029	0.181121067	-5.143642574	2.69E-07	4.61E-06
ENSMUSG00000038515	2392.7963	-0.930956873	0.116326518	-8.002963452	1.21E-15	6.50E-14
ENSMUSG00000078867	38.48232294	-0.929907084	0.385266845	-2.413670149	0.015792752	0.061973283
ENSMUSG00000106383	105.9735816	-0.927838164	0.265105502	-3.499882711	0.000465463	0.003489173
ENSMUSG00000067071	3426.169285	-0.927600475	0.101614659	-9.128608846	6.94E-20	5.55E-18
ENSMUSG00000113940	69.98731156	-0.927119591	0.318118857	-2.914381124	0.003563945	0.018825092
ENSMUSG00000033276	100.6443094	-0.926662579	0.259876669	-3.565778274	0.000362778	0.002816961
ENSMUSG00000023886	20398.04096	-0.926225862	0.122961703	-7.532636898	4.97E-14	2.24E-12
ENSMUSG00000086556	70.07723834	-0.926172249	0.312124564	-2.967316114	0.003004119	0.016460654
ENSMUSG00000046070	49.2803471	-0.925718967	0.343871169	-2.692051705	0.007101393	0.03299337
ENSMUSG00000069808	899.6178167	-0.925647393	0.135316387	-6.840615616	7.89E-12	2.75E-10
ENSMUSG00000086549	1566.882235	-0.925423028	0.161407932	-5.73344207	9.84E-09	2.19E-07
ENSMUSG00000058656	287.6827991	-0.925145048	0.200999024	-4.602734019	4.17E-06	5.49E-05
ENSMUSG00000082535	39.55877692	-0.924548279	0.38125435	-2.425016997	0.01530767	0.060527722
ENSMUSG00000059479	50.91226412	-0.92271863	0.394522237	-2.338825402	0.019344472	0.072539342
ENSMUSG00000078349	374.4899385	-0.922685341	0.183818809	-5.019537159	5.18E-07	8.28E-06
ENSMUSG00000033368	186.8673379	-0.922311746	0.264190241	-3.491089386	0.000481055	0.003585566
ENSMUSG00000026090	5898.482339	-0.922092771	0.10766142	-8.564746545	1.08E-17	7.19E-16
ENSMUSG00000042821	249.1773861	-0.921505263	0.280083891	-3.29010447	0.001001502	0.00665113
ENSMUSG00000058145	306.0761981	-0.919942606	0.170969104	-5.380753494	7.42E-08	1.43E-06
ENSMUSG00000008136	3378.33894	-0.919603531	0.124005298	-7.415840645	1.21E-13	5.12E-12
ENSMUSG00000105802	47.64619805	-0.91855068	0.394490477	-2.328448297	0.019888312	0.074143463
ENSMUSG00000020712	27.86511119	-0.918065244	0.44753606	-2.051377144	0.040230233	0.128635517
ENSMUSG00000070667	35.64066483	-0.918050154	0.422467792	-2.173065431	0.029775393	0.101641059

ENSMUSG00000097131	156.5873321	-0.917413873	0.281637735	-3.257425269	0.001124279	0.007325908
ENSMUSG00000042804	70.89181712	-0.917068345	0.339183424	-2.703753427	0.006856114	0.032094502
ENSMUSG00000025069	142.257103	-0.916814792	0.339573809	-2.699898424	0.006936065	0.032385215
ENSMUSG00000000903	37.53469181	-0.914973709	0.414036213	-2.20988812	0.027112928	0.094890993
ENSMUSG00000102246	29.34632133	-0.914343105	0.452460561	-2.020823879	0.043298	0.135807131
ENSMUSG00000024965	76.638139	-0.913235333	0.300344366	-3.040627483	0.002360857	0.013496405
ENSMUSG00000039774	2245.048875	-0.912725661	0.106034353	-8.607829753	7.45E-18	5.00E-16
ENSMUSG00000022602	2267.980649	-0.912513621	0.215247103	-4.239377014	2.24E-05	0.00024419
ENSMUSG00000085006	63.48220064	-0.911920999	0.323041239	-2.822924415	0.004758779	0.023843076
ENSMUSG00000002489	5855.983383	-0.911549495	0.126688726	-7.195190332	6.24E-13	2.48E-11
ENSMUSG00000074796	227.8988982	-0.910985254	0.337292823	-2.70087352	0.006915763	0.032319454
ENSMUSG00000105748	190.7343698	-0.910880956	0.204572457	-4.452607981	8.48E-06	0.000102708
ENSMUSG00000034799	204.2284751	-0.910786116	0.292576821	-3.112981111	0.001852079	0.011049547
ENSMUSG00000104443	61.19530723	-0.910658595	0.402874697	-2.260401561	0.02379634	0.085649156
ENSMUSG00000074215	409.1134135	-0.909812024	0.199837477	-4.552759767	5.29E-06	6.79E-05
ENSMUSG00000113679	60.73195581	-0.909109377	0.344086512	-2.642095358	0.008239485	0.037226249
ENSMUSG00000023009	94.56029549	-0.909011108	0.315273741	-2.883243958	0.003936025	0.020380146
ENSMUSG00000104699	33.02393982	-0.908925629	0.430570858	-2.11097805	0.034774199	0.114888801
ENSMUSG00000018909	5709.190975	-0.908764829	0.139991524	-6.491570373	8.49E-11	2.59E-09
ENSMUSG00000028631	43.31558098	-0.90859196	0.437914264	-2.074817	0.038003498	0.123078132
ENSMUSG00000073482	121.6945978	-0.907789223	0.364688214	-2.489220078	0.012802369	0.052516734
ENSMUSG00000041644	91.28215317	-0.90747166	0.335572138	-2.704252101	0.006845833	0.032059832
ENSMUSG00000107355	41.59132108	-0.906571645	0.410836804	-2.206646621	0.027338757	0.095367061
ENSMUSG00000042745	5037.020013	-0.905378402	0.148208048	-6.108834283	1.00E-09	2.61E-08
ENSMUSG00000031875	47.11847845	-0.903808772	0.385587387	-2.343979089	0.019079241	0.071848388
ENSMUSG00000054967	100.2035514	-0.903808573	0.277067934	-3.262046823	0.001106109	0.007235943
ENSMUSG00000073733	81.88439115	-0.903338996	0.320195904	-2.821207216	0.004784329	0.023944191
ENSMUSG00000083909	34.52742472	-0.902516603	0.459792793	-1.96287679	0.049660492	0.150390907
ENSMUSG00000009394	77.14241398	-0.902454774	0.299037779	-3.017862078	0.002545647	0.014397789

ENSMUSG00000102140	245.9538429	-0.900339757	0.230779186	-3.901303983	9.57E-05	0.000883141
ENSMUSG00000086645	234.8662083	-0.900275717	0.186168337	-4.835815436	1.33E-06	1.94E-05
ENSMUSG00000097431	131.6765159	-0.900112167	0.310874696	-2.895417921	0.00378654	0.019734433
ENSMUSG00000039763	398.8165678	-0.899831095	0.16894276	-5.326248352	1.00E-07	1.88E-06
ENSMUSG00000032380	3097.801784	-0.899511895	0.115201692	-7.808148319	5.80E-15	2.88E-13
ENSMUSG00000056752	52.04619803	-0.899023185	0.392352394	-2.291366636	0.021942218	0.080205441
ENSMUSG00000039563	51.4112826	-0.897416571	0.347032439	-2.585973152	0.009710449	0.042394818
ENSMUSG00000111811	89.20708161	-0.897348728	0.314411901	-2.854054583	0.004316511	0.021987785
ENSMUSG00000030030	45.77542533	-0.897159121	0.454798345	-1.972652564	0.04853516	0.147967546
ENSMUSG00000106896	93.0268515	-0.89673341	0.272317864	-3.292965792	0.000991365	0.006597565
ENSMUSG00000085360	542.4898486	-0.896265757	0.170414075	-5.259341164	1.45E-07	2.63E-06
ENSMUSG00000031374	41.0612333	-0.896092639	0.373998608	-2.395978538	0.016576061	0.064244479
ENSMUSG00000002983	2432.415069	-0.895710938	0.174443512	-5.134676143	2.83E-07	4.82E-06
ENSMUSG00000025081	229.2065006	-0.895191377	0.357780081	-2.502071594	0.012346895	0.05102819
ENSMUSG00000028434	6819.96331	-0.894102017	0.103668714	-8.624607955	6.43E-18	4.36E-16
ENSMUSG00000048728	107.4368719	-0.893904879	0.253702021	-3.523444052	0.000425977	0.003234496
ENSMUSG00000040828	66.62797084	-0.893593113	0.345117364	-2.589244143	0.009618687	0.042093082
ENSMUSG00000046733	121.506966	-0.893193068	0.2824372	-3.162448393	0.001564485	0.009622055
ENSMUSG00000033967	333.7347302	-0.890785305	0.214279524	-4.157118174	3.22E-05	0.000337909
ENSMUSG00000017950	43546.50643	-0.88956434	0.133303195	-6.673240931	2.50E-11	8.19E-10
ENSMUSG00000106887	73.2906432	-0.888733861	0.319743209	-2.779523805	0.005443866	0.026588625
ENSMUSG00000092470	53.96770157	-0.887171024	0.359039279	-2.470958128	0.01347516	0.054707725
ENSMUSG00000034472	186.7884425	-0.887075543	0.323507676	-2.742054076	0.006105629	0.029125482
ENSMUSG00000035566	324.9865937	-0.886996699	0.216178259	-4.10308003	4.08E-05	0.000416673
ENSMUSG00000115092	70.86397708	-0.886323227	0.305686748	-2.899449301	0.003738188	0.019543044
ENSMUSG00000026170	476.8411783	-0.885776778	0.175347114	-5.051561774	4.38E-07	7.15E-06
ENSMUSG00000079484	57.88808917	-0.88528894	0.319540674	-2.770504704	0.005596949	0.027169692
ENSMUSG00000049670	43.50524356	-0.884835726	0.357572617	-2.474562323	0.013339954	0.054247688
ENSMUSG00000002265	228.928818	-0.884768856	0.21785803	-4.061217561	4.88E-05	0.000491947

ENSMUSG00000097619	30.36987891	-0.884555511	0.43831369	-2.018087805	0.043582118	0.136461565
ENSMUSG00000034881	62.04353724	-0.884196206	0.401727908	-2.200982773	0.027737243	0.096425295
ENSMUSG00000106508	252.3589467	-0.883459865	0.20587468	-4.291250704	1.78E-05	0.000200517
ENSMUSG00000039496	71.21151687	-0.882404719	0.288693668	-3.056543373	0.002239051	0.012925983
ENSMUSG00000107761	112.9694796	-0.882132276	0.282529694	-3.122263941	0.00179466	0.010761684
ENSMUSG00000022780	37.17180471	-0.881463833	0.442448235	-1.992241718	0.046344543	0.142989714
ENSMUSG00000061601	187.3824647	-0.880810588	0.262532736	-3.355050506	0.000793505	0.005458345
ENSMUSG00000021684	1167.629536	-0.880217883	0.122385032	-7.192202073	6.38E-13	2.53E-11
ENSMUSG00000097872	103.6310366	-0.879012003	0.33846179	-2.597078986	0.00940203	0.041325549
ENSMUSG00000057880	1571.037037	-0.87870955	0.440898612	-1.992996863	0.046261791	0.142813426
ENSMUSG00000005883	56.31328536	-0.876082636	0.367531025	-2.383697093	0.017139704	0.066015981
ENSMUSG00000110575	66.84286896	-0.875832395	0.344588508	-2.541676156	0.011032234	0.046853903
ENSMUSG00000067220	80.04764326	-0.875357572	0.294972815	-2.967587276	0.003001471	0.016450183
ENSMUSG00000110611	314.4728816	-0.874865036	0.205649693	-4.254151917	2.10E-05	0.000230982
ENSMUSG00000000731	80.51642334	-0.873309321	0.333704088	-2.617017146	0.008870189	0.039483847
ENSMUSG00000024391	44.66916436	-0.87237422	0.358824922	-2.431197408	0.015049013	0.059674259
ENSMUSG00000043668	1602.844829	-0.870842179	0.117625821	-7.40349499	1.33E-13	5.60E-12
ENSMUSG00000096094	39.913084	-0.870648857	0.388374296	-2.241777755	0.02497574	0.088960864
ENSMUSG00000029426	2513.960261	-0.870577943	0.124420039	-6.997087851	2.61E-12	9.68E-11
ENSMUSG00000086533	105.932546	-0.870244275	0.275109756	-3.163262141	0.001560118	0.009597845
ENSMUSG00000074052	57.26344837	-0.869789776	0.343966606	-2.528704127	0.011448449	0.048227904
ENSMUSG00000079173	7013.478108	-0.869615611	0.1416062	-6.141084279	8.20E-10	2.17E-08
ENSMUSG00000084149	43.77248986	-0.866667662	0.398646734	-2.174024238	0.029703315	0.101503774
ENSMUSG00000097640	173.024056	-0.86585464	0.213761297	-4.050567872	5.11E-05	0.000511416
ENSMUSG00000036928	62.09578663	-0.864792942	0.355615749	-2.431818457	0.015023235	0.059582637
ENSMUSG00000031785	2637.786314	-0.864592891	0.123694513	-6.989743287	2.75E-12	1.02E-10
ENSMUSG00000097075	69.89286163	-0.863995807	0.314385312	-2.748206658	0.005992223	0.028694988
ENSMUSG00000067889	319.2888523	-0.863897398	0.223062087	-3.872901081	0.000107547	0.000977391
ENSMUSG00000026979	1764.784622	-0.862350577	0.10378961	-8.308640669	9.68E-17	5.64E-15



ENSMUSG00000000204	144.4521023	-0.862201977	0.271058702	-3.180868092	0.001468345	0.009118785
ENSMUSG00000049307	1260.808414	-0.860809467	0.167429038	-5.141339141	2.73E-07	4.66E-06
ENSMUSG00000038807	3934.590851	-0.860583683	0.152611585	-5.639045573	1.71E-08	3.66E-07
ENSMUSG00000027168	66.2358047	-0.860121087	0.302211543	-2.84608946	0.004425976	0.022427365
ENSMUSG00000065582	90.83163829	-0.857575852	0.305297866	-2.808980828	0.004969861	0.024728439
ENSMUSG00000097487	73.86565676	-0.857404007	0.314072485	-2.729955817	0.006334281	0.030055491
ENSMUSG00000075420	691.7355876	-0.85708665	0.141528673	-6.055922329	1.40E-09	3.57E-08
ENSMUSG00000029851	1473.196259	-0.856954853	0.169006846	-5.070533381	3.97E-07	6.51E-06
ENSMUSG00000033644	85.52125848	-0.856546405	0.291377892	-2.939641023	0.003285927	0.017657379
ENSMUSG00000024696	67.76421505	-0.855511451	0.295093311	-2.899121798	0.003742095	0.01955306
ENSMUSG00000047632	201.7738729	-0.855444928	0.202338597	-4.227789154	2.36E-05	0.000255983
ENSMUSG00000023800	799.6525071	-0.855070916	0.179566506	-4.761861971	1.92E-06	2.72E-05
ENSMUSG00000039158	775.6447327	-0.854867522	0.212362001	-4.025520185	5.68E-05	0.000560593
ENSMUSG00000004952	1946.601366	-0.854600622	0.123540875	-6.917553598	4.60E-12	1.65E-10
ENSMUSG00000061536	489.2798682	-0.852108052	0.154157654	-5.527510492	3.25E-08	6.59E-07
ENSMUSG00000040212	371.3027176	-0.850915258	0.275757236	-3.085740454	0.00203046	0.01192499
ENSMUSG00000074738	245.0835309	-0.850417648	0.223427266	-3.806239328	0.000141096	0.001236377
ENSMUSG00000042474	101.3205839	-0.849663234	0.288957616	-2.940442429	0.003277439	0.01762908
ENSMUSG00000097120	76.24701431	-0.84907611	0.354368096	-2.396028652	0.016573795	0.064244479
ENSMUSG00000059213	62.10887869	-0.849027315	0.406133568	-2.090512535	0.036571784	0.119499977
ENSMUSG00000053111	43.74635683	-0.849010926	0.368925967	-2.301304329	0.021374435	0.078632676
ENSMUSG00000025738	68.31595671	-0.848801372	0.406039688	-2.090439426	0.036578344	0.119503905
ENSMUSG00000093798	190.1877699	-0.848420104	0.271437995	-3.125649757	0.001774127	0.010650163
ENSMUSG00000093042	42.78435729	-0.847654379	0.368487515	-2.300361195	0.021427765	0.078763902
ENSMUSG00000112124	46.51855625	-0.847010319	0.389374832	-2.175308342	0.029607018	0.101267807
ENSMUSG00000054612	205.1164083	-0.846459339	0.192449935	-4.398335287	1.09E-05	0.000128714
ENSMUSG00000048965	64.68622276	-0.846274346	0.345786401	-2.447390478	0.014389485	0.05771581
ENSMUSG00000054909	110.8973522	-0.845409437	0.254176609	-3.326070962	0.000880795	0.005994212
ENSMUSG00000020032	167.0539993	-0.844736632	0.219609897	-3.846532625	0.000119801	0.001069958

ENSMUSG00000047518	53.26102248	-0.844687084	0.378722471	-2.230359034	0.025723617	0.090970882
ENSMUSG00000087600	60.09829432	-0.844676237	0.358701511	-2.354816501	0.018531854	0.070166195
ENSMUSG00000014773	5079.954626	-0.844209763	0.133243991	-6.335818663	2.36E-10	6.78E-09
ENSMUSG00000048174	120.4591047	-0.843904583	0.27292398	-3.092086607	0.001987549	0.011722909
ENSMUSG00000003166	3350.981902	-0.843702734	0.151028091	-5.586396081	2.32E-08	4.85E-07
ENSMUSG00000036565	7177.019667	-0.843060884	0.127730992	-6.600284489	4.10E-11	1.31E-09
ENSMUSG00000054889	70860.08635	-0.842742766	0.147557984	-5.711265118	1.12E-08	2.47E-07
ENSMUSG00000102632	110.1392739	-0.840988302	0.251921491	-3.338295188	0.000842941	0.005768161
ENSMUSG00000027510	5105.855519	-0.840341676	0.146838756	-5.722887451	1.05E-08	2.32E-07
ENSMUSG00000019464	113.8515013	-0.839947317	0.24470658	-3.432467237	0.000598116	0.004318093
ENSMUSG00000108688	253.9511777	-0.839831965	0.248154229	-3.38431454	0.000713562	0.004996279
ENSMUSG00000103778	32.07818957	-0.839648529	0.425449289	-1.973557251	0.048432109	0.147734161
ENSMUSG00000022220	93.15706122	-0.83930215	0.303188485	-2.768252063	0.005635785	0.027340361
ENSMUSG00000083496	82.32913709	-0.83875609	0.352411728	-2.380045904	0.017310482	0.066528837
ENSMUSG00000103059	34.39729675	-0.838643505	0.423267283	-1.981356787	0.047551276	0.145786946
ENSMUSG00000047591	420.6839561	-0.838389985	0.21039982	-3.984746686	6.76E-05	0.000654856
ENSMUSG00000046694	337.0902819	-0.838318648	0.227656298	-3.682387244	0.00023106	0.001897927
ENSMUSG00000021062	3016.306777	-0.836364023	0.124543065	-6.715460443	1.87E-11	6.25E-10
ENSMUSG00000052673	95.81078927	-0.836069926	0.250142178	-3.342378849	0.000830636	0.00569269
ENSMUSG00000044037	2896.667377	-0.835971123	0.126847288	-6.590374405	4.39E-11	1.39E-09
ENSMUSG00000024411	5597.440259	-0.835935066	0.188251093	-4.440532335	8.97E-06	0.00010794
ENSMUSG00000028699	1419.101154	-0.835846938	0.203635138	-4.104630214	4.05E-05	0.000414269
ENSMUSG00000025577	1757.124511	-0.835796612	0.122724227	-6.810363614	9.74E-12	3.35E-10
ENSMUSG00000027938	538.940912	-0.834760733	0.193509298	-4.313801664	1.60E-05	0.000183239
ENSMUSG00000029828	228.1644469	-0.833909896	0.239488473	-3.482046068	0.000497598	0.003696514
ENSMUSG00000037621	455.6691171	-0.833335994	0.197314843	-4.223382202	2.41E-05	0.000260157
ENSMUSG00000034173	70.94162461	-0.832805748	0.314006184	-2.652195371	0.007997025	0.036336932
ENSMUSG00000000531	1090.292488	-0.832596463	0.196272779	-4.242037378	2.21E-05	0.000241785
ENSMUSG00000044005	364.5535487	-0.832012656	0.159432461	-5.218590065	1.80E-07	3.21E-06

ENSMUSG00000038963	1084.527296	-0.831995772	0.148831314	-5.590193028	2.27E-08	4.76E-07
ENSMUSG00000097164	311.5569979	-0.831778544	0.177668927	-4.681620807	2.85E-06	3.87E-05
ENSMUSG00000044156	1081.765314	-0.831703325	0.169371625	-4.910523391	9.08E-07	1.38E-05
ENSMUSG00000060176	147.0306616	-0.831380888	0.24202094	-3.435160971	0.000592202	0.004279551
ENSMUSG00000070385	72.28064562	-0.830505022	0.338430387	-2.453990701	0.014128064	0.056882099
ENSMUSG00000004473	218.9868399	-0.828156476	0.258500143	-3.203698333	0.001356746	0.008532652
ENSMUSG00000078864	65.21875186	-0.827699506	0.311288181	-2.658949353	0.007838475	0.035756644
ENSMUSG00000052698	2626.676092	-0.82606168	0.148386507	-5.566959542	2.59E-08	5.34E-07
ENSMUSG00000035262	94.70625733	-0.825849484	0.262804151	-3.142452203	0.001675391	0.01017785
ENSMUSG00000044231	402.4582332	-0.825697666	0.159625729	-5.172710385	2.31E-07	4.00E-06
ENSMUSG00000094786	119.8868987	-0.824633472	0.241595244	-3.413285208	0.000641847	0.004576801
ENSMUSG00000041144	306.7175816	-0.824532056	0.182026382	-4.529739297	5.91E-06	7.47E-05
ENSMUSG00000037568	67.32005243	-0.822649923	0.387807605	-2.121283627	0.033897941	0.1126614
ENSMUSG00000037003	582.7758028	-0.822519214	0.168186849	-4.890508505	1.01E-06	1.51E-05
ENSMUSG00000089975	53.43291355	-0.821979063	0.404878859	-2.030185188	0.042337719	0.133489816
ENSMUSG00000048707	3527.672237	-0.819309282	0.100033275	-8.190367493	2.60E-16	1.44E-14
ENSMUSG00000043747	49.85503124	-0.818939808	0.338188466	-2.421548602	0.015454534	0.060975818
ENSMUSG00000035576	309.0600663	-0.818793129	0.208638149	-3.924465078	8.69E-05	0.000812432
ENSMUSG00000023216	214.5943339	-0.81826077	0.284986508	-2.871226345	0.004088826	0.021058872
ENSMUSG00000031144	42.60787092	-0.817985401	0.391748702	-2.08803602	0.036794586	0.119985426
ENSMUSG00000073856	97.53942076	-0.81564979	0.296268382	-2.753077409	0.005903794	0.028344564
ENSMUSG00000039621	220.4427048	-0.815449592	0.190874464	-4.2721775	1.94E-05	0.000215198
ENSMUSG00000042249	2694.228511	-0.814244445	0.124572144	-6.536328442	6.30E-11	1.96E-09
ENSMUSG00000031596	899.1593174	-0.813749551	0.216367949	-3.760952376	0.000169268	0.001446852
ENSMUSG00000105944	46.54805088	-0.813423125	0.388738036	-2.092471151	0.03639639	0.119188824
ENSMUSG00000038271	185.3928263	-0.812187206	0.258073149	-3.14712014	0.001648872	0.010046856
ENSMUSG00000030739	19723.3923	-0.811374846	0.147714146	-5.49287166	3.95E-08	7.94E-07
ENSMUSG00000047604	4208.691867	-0.810013326	0.131413388	-6.163856958	7.10E-10	1.90E-08
ENSMUSG00000021373	1075.42697	-0.809839015	0.178069935	-4.547870568	5.42E-06	6.90E-05

ENSMUSG00000024730	685.7735163	-0.80851927	0.140189876	-5.767315677	8.05E-09	1.83E-07
ENSMUSG00000092187	53.4269302	-0.808288908	0.34489572	-2.343574773	0.019099933	0.071889893
ENSMUSG00000104950	90.85426183	-0.807972663	0.326449597	-2.475030359	0.013322485	0.054226089
ENSMUSG00000029862	96.41737844	-0.807287762	0.274634627	-2.939497363	0.003287451	0.017657379
ENSMUSG00000035279	105.3115535	-0.806685982	0.34140068	-2.362871632	0.018133395	0.069034689
ENSMUSG00000032417	44.8346577	-0.806115062	0.374145634	-2.154548898	0.031197152	0.105589267
ENSMUSG00000041633	50.25019156	-0.805884507	0.350265026	-2.300784968	0.021403789	0.078727674
ENSMUSG00000107143	51.79688521	-0.805262001	0.337107704	-2.388738056	0.016906351	0.065286328
ENSMUSG00000057751	87.06519564	-0.804769143	0.376199741	-2.139207062	0.032418903	0.108980094
ENSMUSG00000035493	901.6511007	-0.804525529	0.177535364	-4.531635322	5.85E-06	7.41E-05
ENSMUSG00000019768	54.712576	-0.804391558	0.371065968	-2.16778586	0.030174983	0.102727824
ENSMUSG00000032135	112.5713365	-0.804370854	0.306345226	-2.625700629	0.008647083	0.038667579
ENSMUSG00000026519	3205.927665	-0.804202633	0.116074839	-6.928311428	4.26E-12	1.54E-10
ENSMUSG00000049971	171.4820848	-0.804087376	0.252813599	-3.180554282	0.001469936	0.009126125
ENSMUSG00000022474	436.2022526	-0.804077276	0.164710575	-4.881758647	1.05E-06	1.57E-05
ENSMUSG00000043448	61.76206951	-0.803611858	0.308980149	-2.600852714	0.009299237	0.040960356
ENSMUSG00000038976	2650.246214	-0.803589916	0.113400762	-7.086283215	1.38E-12	5.25E-11
ENSMUSG00000026205	379.6428168	-0.803524841	0.203409458	-3.950282597	7.81E-05	0.000740344
ENSMUSG00000053411	1942.536577	-0.802543351	0.144438874	-5.556283615	2.76E-08	5.65E-07
ENSMUSG00000000126	73.24555475	-0.801820923	0.404200165	-1.983722401	0.047286795	0.145213827
ENSMUSG00000024654	575.4807051	-0.801642884	0.155101833	-5.168493953	2.36E-07	4.08E-06
ENSMUSG00000030110	110.6730506	-0.801624159	0.277394806	-2.889831181	0.003854488	0.020023044
ENSMUSG00000105601	43.65042018	-0.800211655	0.373446072	-2.142777001	0.032131009	0.108159038
ENSMUSG00000022054	174.9797379	-0.799853122	0.284837713	-2.808101192	0.004983456	0.024773977
ENSMUSG00000103897	57.49516014	-0.79876944	0.344053573	-2.321642624	0.020252187	0.075206762
ENSMUSG00000001552	15168.36874	-0.79856599	0.098053409	-8.144194027	3.82E-16	2.10E-14
ENSMUSG00000010051	288.3169171	-0.798523511	0.206368145	-3.869412662	0.000109098	0.000988619
ENSMUSG00000044424	145.4555331	-0.798436861	0.247150041	-3.230575477	0.001235413	0.007890436
ENSMUSG00000062127	2610.234046	-0.798298263	0.12034675	-6.633317983	3.28E-11	1.06E-09

ENSMUSG00000057967	139.0449265	-0.797989592	0.25119961	-3.176715094	0.001489533	0.009219559
ENSMUSG00000027332	3415.071349	-0.797124626	0.139337653	-5.720812783	1.06E-08	2.34E-07
ENSMUSG00000102650	65.15120656	-0.796933925	0.319817812	-2.491837215	0.012708427	0.052193485
ENSMUSG00000111128	359.1161021	-0.796633017	0.243751503	-3.268217873	0.00108227	0.007109192
ENSMUSG00000085498	64.33144188	-0.796447323	0.304444146	-2.616070413	0.008894821	0.039561908
ENSMUSG00000045667	81.86361524	-0.796355846	0.297060068	-2.680790625	0.007344846	0.033944148
ENSMUSG00000039676	70.5578181	-0.796322217	0.335037262	-2.37681687	0.017462755	0.067017193
ENSMUSG00000004371	74.3281707	-0.795664986	0.318628538	-2.49715544	0.012519407	0.05155009
ENSMUSG00000032131	65.79370084	-0.794601178	0.327749945	-2.424412849	0.015333163	0.060596291
ENSMUSG00000043024	66.83907106	-0.793910936	0.328159422	-2.419284293	0.015551081	0.061251264
ENSMUSG00000051314	59.63678346	-0.792557112	0.384222904	-2.062753426	0.039136061	0.125960813
ENSMUSG00000065952	122.3148528	-0.792505574	0.28779679	-2.75369845	0.005892603	0.028296931
ENSMUSG00000095789	62.96411682	-0.792209727	0.390996284	-2.026131092	0.042751353	0.134542615
ENSMUSG00000021223	997.0614944	-0.791381147	0.148957909	-5.312783659	1.08E-07	2.01E-06
ENSMUSG00000044134	3483.622878	-0.791258838	0.136509747	-5.796354164	6.78E-09	1.56E-07
ENSMUSG00000033065	924.2248035	-0.791187137	0.136079585	-5.814150137	6.09E-09	1.41E-07
ENSMUSG00000109233	41.93128807	-0.790822822	0.368421071	-2.146518979	0.031831596	0.107345596
ENSMUSG00000042672	107.3502878	-0.789879968	0.382887492	-2.062955786	0.039116829	0.125960813
ENSMUSG00000033717	5908.475561	-0.78780225	0.141468873	-5.568732079	2.57E-08	5.30E-07
ENSMUSG00000021594	600.6716732	-0.787269975	0.211805419	-3.716949168	0.000201643	0.001689906
ENSMUSG00000032344	894.9338021	-0.787002591	0.184364726	-4.268726495	1.97E-05	0.000218119
ENSMUSG00000047238	93.0857096	-0.786538134	0.260291501	-3.021758804	0.002513107	0.014224569
ENSMUSG00000024376	42.62206939	-0.785557807	0.376184646	-2.088224002	0.036777633	0.119969212
ENSMUSG00000029178	8042.342174	-0.785379693	0.090636541	-8.665155221	4.51E-18	3.12E-16
ENSMUSG00000044352	370.2610634	-0.784432608	0.173803307	-4.513335351	6.38E-06	8.01E-05
ENSMUSG00000026489	7209.324649	-0.784423516	0.164058954	-4.781351449	1.74E-06	2.50E-05
ENSMUSG00000097827	54.41294996	-0.782704638	0.342689145	-2.284007675	0.02237108	0.081532514
ENSMUSG00000036158	128.1548369	-0.780787588	0.236099758	-3.307024093	0.000942928	0.006328735
ENSMUSG00000029922	2763.516406	-0.780467593	0.112030715	-6.966550166	3.25E-12	1.19E-10

ENSMUSG00000026923	19273.41862	-0.780012378	0.110875663	-7.035018828	1.99E-12	7.45E-11
ENSMUSG00000044469	1228.05613	-0.779210123	0.121037622	-6.437751402	1.21E-10	3.63E-09
ENSMUSG00000067121	46.5172843	-0.778671417	0.355247724	-2.191911066	0.028385929	0.098205802
ENSMUSG00000038342	12739.30767	-0.778602636	0.100704807	-7.731533968	1.06E-14	5.19E-13
ENSMUSG00000104642	44.72162376	-0.777467299	0.364183275	-2.134824284	0.032775366	0.110012558
ENSMUSG00000040046	332.9020162	-0.777442029	0.276344199	-2.813310476	0.004903428	0.02446339
ENSMUSG00000053226	266.7431815	-0.776969279	0.26881997	-2.890295987	0.003848793	0.020002779
ENSMUSG00000043391	246.3475575	-0.776491965	0.229405381	-3.384802753	0.000712294	0.004992103
ENSMUSG00000073399	365.5549344	-0.776449241	0.187086177	-4.150222392	3.32E-05	0.000346948
ENSMUSG00000014351	515.9761699	-0.776330954	0.196572315	-3.949340241	7.84E-05	0.000742421
ENSMUSG00000108806	45.2383721	-0.776246111	0.358054021	-2.167958089	0.030161875	0.102708808
ENSMUSG00000046410	331.3194236	-0.775018532	0.192825302	-4.019278193	5.84E-05	0.000573759
ENSMUSG00000085828	151.2074813	-0.774247872	0.306269482	-2.527995504	0.011471582	0.048287609
ENSMUSG00000107728	260.4256136	-0.772141261	0.222950733	-3.463282008	0.000533629	0.003915912
ENSMUSG00000020682	148.5914701	-0.772027484	0.297418376	-2.595762554	0.009438126	0.041449322
ENSMUSG00000039620	553.9314739	-0.771634228	0.148182451	-5.207325316	1.92E-07	3.39E-06
ENSMUSG00000043488	101.365325	-0.771435029	0.280406857	-2.751127551	0.005939051	0.028489306
ENSMUSG00000113473	46.73915293	-0.769964291	0.379501529	-2.028883241	0.042470184	0.133812882
ENSMUSG00000052415	68.38647356	-0.769521445	0.310164061	-2.481014219	0.013100915	0.0535196
ENSMUSG00000048070	186.5279594	-0.76819644	0.263491733	-2.91544798	0.003551783	0.018783096
ENSMUSG00000036646	5605.320691	-0.767918325	0.105014649	-7.312487651	2.62E-13	1.07E-11
ENSMUSG00000024215	763.0374307	-0.767767076	0.241849038	-3.174571551	0.001500579	0.009275058
ENSMUSG00000098488	111.1060965	-0.767487185	0.27677255	-2.77298881	0.005554403	0.027018352
ENSMUSG00000055862	559.837008	-0.767302052	0.184195031	-4.165704393	3.10E-05	0.000326821
ENSMUSG00000111639	88.91620954	-0.766780057	0.277649188	-2.761686657	0.005750364	0.027793424
ENSMUSG00000026198	122.4656383	-0.766132778	0.268826208	-2.849918477	0.004373044	0.022230054
ENSMUSG00000039395	2430.871435	-0.76432247	0.159675972	-4.786709354	1.70E-06	2.44E-05
ENSMUSG00000005763	69.19492267	-0.762689307	0.295576441	-2.580345393	0.009870154	0.042932379
ENSMUSG00000070337	58.14372409	-0.761731383	0.35933367	-2.119844167	0.034019189	0.112955993

ENSMUSG00000043415	218.5033343	-0.761453158	0.216576532	-3.515861806	0.000438329	0.003318118
ENSMUSG00000025481	481.0313273	-0.760900555	0.171961676	-4.424826353	9.65E-06	0.000115353
ENSMUSG00000038268	390.6701303	-0.760170401	0.229554972	-3.311496133	0.000927985	0.006257937
ENSMUSG00000034282	1792.032527	-0.759409017	0.118985611	-6.382360123	1.74E-10	5.10E-09
ENSMUSG00000032657	433.3571146	-0.759278536	0.15106801	-5.026070928	5.01E-07	8.04E-06
ENSMUSG00000031748	262.0498522	-0.758071659	0.223328578	-3.394422993	0.000687734	0.004849851
ENSMUSG00000108494	44.50514537	-0.757751528	0.369678417	-2.049758638	0.04038799	0.128983611
ENSMUSG00000110208	190.323621	-0.757595709	0.37914128	-1.998188405	0.045696238	0.141577078
ENSMUSG00000083367	51.45185952	-0.757512681	0.371940081	-2.036652461	0.041684882	0.13212259
ENSMUSG00000003051	32911.26743	-0.757043951	0.112588855	-6.723968813	1.77E-11	5.91E-10
ENSMUSG00000030849	3785.853922	-0.756583026	0.129757569	-5.830742895	5.52E-09	1.29E-07
ENSMUSG00000024922	4024.909363	-0.756527472	0.134527816	-5.623576548	1.87E-08	3.97E-07
ENSMUSG00000027071	88.73966137	-0.756050128	0.361987678	-2.088607356	0.036743082	0.11991914
ENSMUSG00000005677	337.715411	-0.756007874	0.28049534	-2.695260009	0.007033372	0.032752399
ENSMUSG000000057329	1084.144784	-0.755384926	0.141635658	-5.333296267	9.64E-08	1.82E-06
ENSMUSG00000069581	102.5452766	-0.755153468	0.319907175	-2.360539332	0.018248383	0.069328312
ENSMUSG00000028862	345.1422256	-0.754362955	0.231624376	-3.256837505	0.001126609	0.007335875
ENSMUSG00000025085	740.4717994	-0.753082225	0.178431408	-4.220570009	2.44E-05	0.000262787
ENSMUSG00000026883	12457.47764	-0.752423217	0.113259409	-6.643361667	3.07E-11	9.92E-10
ENSMUSG00000024036	3316.650237	-0.752311053	0.124820023	-6.027166443	1.67E-09	4.21E-08
ENSMUSG00000020865	4206.631152	-0.751863779	0.168417944	-4.4642736	8.03E-06	9.79E-05
ENSMUSG00000031303	888.3577573	-0.751612305	0.14402464	-5.218636919	1.80E-07	3.21E-06
ENSMUSG00000031951	82.91567959	-0.751167529	0.28976977	-2.592290871	0.009533913	0.041795908
ENSMUSG00000045822	1239.721189	-0.750750508	0.154327294	-4.864664506	1.15E-06	1.70E-05
ENSMUSG00000001911	5654.921274	-0.749308849	0.120596388	-6.213360619	5.19E-10	1.41E-08
ENSMUSG00000015627	3823.030342	-0.74930857	0.158037748	-4.741326548	2.12E-06	2.97E-05
ENSMUSG00000035900	3518.537471	-0.748819616	0.109288244	-6.851785606	7.29E-12	2.56E-10
ENSMUSG00000060519	468.5155249	-0.748617177	0.146357532	-5.11498908	3.14E-07	5.28E-06
ENSMUSG00000005686	1294.355976	-0.74648532	0.130305562	-5.728729535	1.01E-08	2.25E-07

ENSMUSG00000036667	1217.096031	-0.745942624	0.166156651	-4.489393718	7.14E-06	8.83E-05
ENSMUSG00000022844	1467.113202	-0.74575066	0.135161813	-5.517465638	3.44E-08	6.95E-07
ENSMUSG00000020895	345.2750323	-0.745688339	0.154160147	-4.837101883	1.32E-06	1.93E-05
ENSMUSG00000019066	2363.47925	-0.745343844	0.144465911	-5.159306034	2.48E-07	4.27E-06
ENSMUSG000000100632	98.86945808	-0.744727239	0.264760632	-2.812832233	0.004910726	0.024494321
ENSMUSG000000115388	35212.61326	-0.744484883	0.114590792	-6.496899721	8.20E-11	2.51E-09
ENSMUSG000000108105	54.11529943	-0.744400078	0.348548657	-2.135713517	0.032702772	0.109835018
ENSMUSG000000045744	88.82106616	-0.744282819	0.283424554	-2.626035071	0.008638592	0.038653538
ENSMUSG00000007783	207.3599328	-0.743924115	0.20254112	-3.672953491	0.000239763	0.001960747
ENSMUSG000000015305	3268.642466	-0.743759651	0.144134516	-5.160177254	2.47E-07	4.26E-06
ENSMUSG000000034586	1144.998853	-0.743659147	0.186421875	-3.989119548	6.63E-05	0.000644717
ENSMUSG000000109325	280.4541374	-0.742470447	0.186330664	-3.984692762	6.76E-05	0.000654856
ENSMUSG000000024906	2532.094688	-0.742232531	0.207883782	-3.570420571	0.000356409	0.002773296
ENSMUSG000000006586	92.40461915	-0.741996401	0.322088192	-2.303705691	0.02123917	0.07822539
ENSMUSG000000040502	536.3972389	-0.741941011	0.155113491	-4.783213926	1.73E-06	2.48E-05
ENSMUSG000000034853	2073.470981	-0.741577108	0.158031856	-4.69257987	2.70E-06	3.70E-05
ENSMUSG000000032010	1247.175329	-0.741038207	0.112655306	-6.577925467	4.77E-11	1.50E-09
ENSMUSG000000086873	105.2511281	-0.740267414	0.25373262	-2.917509836	0.003528385	0.018694825
ENSMUSG000000027397	2486.597067	-0.739535622	0.128997153	-5.732960796	9.87E-09	2.20E-07
ENSMUSG000000022836	2861.325594	-0.738743939	0.183639272	-4.02279933	5.75E-05	0.000566494
ENSMUSG000000097773	141.7434045	-0.73862985	0.302697068	-2.44016189	0.014680681	0.058630708
ENSMUSG000000007476	528.9737413	-0.737955487	0.169053322	-4.365223211	1.27E-05	0.000147966
ENSMUSG000000045287	2375.883569	-0.737735354	0.143975328	-5.124040089	2.99E-07	5.06E-06
ENSMUSG000000058070	208.239549	-0.737581882	0.222996559	-3.307593117	0.000941014	0.006328576
ENSMUSG000000042616	137.0263326	-0.736994052	0.253236818	-2.910295815	0.003610868	0.019005422
ENSMUSG000000097099	200.9840563	-0.736121802	0.233096743	-3.158009813	0.001588502	0.0097429
ENSMUSG000000071656	82.68261869	-0.735973121	0.333499766	-2.206817502	0.027326812	0.095367061
ENSMUSG000000075162	49.43599105	-0.734356898	0.352482041	-2.083388121	0.03721586	0.120948834
ENSMUSG000000024883	298.4695731	-0.734086947	0.17266638	-4.251475856	2.12E-05	0.000233415



ENSMUSG00000071073	59.28456054	-0.734082619	0.370549351	-1.981065725	0.047583903	0.145837869
ENSMUSG00000101166	195.9838404	-0.734066862	0.255859419	-2.869024185	0.004117403	0.02119137
ENSMUSG00000052212	1317.119455	-0.734037296	0.168890177	-4.346240315	1.38E-05	0.000160108
ENSMUSG00000048330	203.3512748	-0.733796774	0.227365462	-3.227388922	0.001249255	0.007964449
ENSMUSG00000030074	74.16908873	-0.733579542	0.300393614	-2.442061039	0.014603677	0.058374481
ENSMUSG00000044033	608.8175009	-0.73314574	0.18148731	-4.039652904	5.35E-05	0.000531988
ENSMUSG00000075391	109.7974526	-0.73293757	0.331694364	-2.209677489	0.027127553	0.0948975
ENSMUSG00000028047	126.7287251	-0.732883816	0.299122996	-2.450108571	0.014281315	0.057405839
ENSMUSG00000039648	891.3686479	-0.732759109	0.140564288	-5.212982044	1.86E-07	3.29E-06
ENSMUSG00000022193	1656.035008	-0.732382763	0.18468321	-3.965616388	7.32E-05	0.000701581
ENSMUSG00000071856	6811.792101	-0.731918585	0.09901579	-7.391938059	1.45E-13	6.08E-12
ENSMUSG00000027276	1498.307464	-0.731532062	0.12757706	-5.734040768	9.81E-09	2.19E-07
ENSMUSG00000028378	3590.290967	-0.731223581	0.160093295	-4.567484113	4.94E-06	6.39E-05
ENSMUSG00000003469	117.4320533	-0.730732209	0.280168175	-2.608191345	0.009102206	0.040291443
ENSMUSG00000051113	263.5296338	-0.73046882	0.295353512	-2.473201737	0.013390853	0.05441498
ENSMUSG00000025213	42.91822042	-0.730354249	0.368349318	-1.982776169	0.047392437	0.145398093
ENSMUSG00000035828	4324.911816	-0.728640862	0.180395117	-4.039138487	5.36E-05	0.000532918
ENSMUSG00000021375	11081.81295	-0.728125448	0.094885547	-7.673723423	1.67E-14	7.91E-13
ENSMUSG00000032726	84.81244898	-0.727953597	0.303783126	-2.396293723	0.016561813	0.064222741
ENSMUSG00000064307	183.8354041	-0.727832324	0.195218908	-3.728288049	0.000192785	0.001622376
ENSMUSG00000111312	47.03825482	-0.726968726	0.363702895	-1.998798295	0.045630182	0.141411714
ENSMUSG00000049916	531.0306657	-0.725577209	0.144254338	-5.029846709	4.91E-07	7.91E-06
ENSMUSG00000038811	92.28305317	-0.725569103	0.280702003	-2.58483764	0.009742486	0.042501406
ENSMUSG00000015957	64.2128147	-0.724867757	0.355774447	-2.037436253	0.041606344	0.131967441
ENSMUSG00000086513	60620.44648	-0.724569043	0.206233446	-3.513344009	0.000442504	0.003341534
ENSMUSG00000021700	121.9085305	-0.723434681	0.330603508	-2.188224454	0.028653257	0.098808764
ENSMUSG00000108391	135.2789574	-0.723318055	0.36874792	-1.961551553	0.049814717	0.15069425
ENSMUSG00000020167	9308.463072	-0.722442977	0.09459709	-7.637052859	2.22E-14	1.03E-12
ENSMUSG00000035172	1165.603732	-0.72196718	0.12768349	-5.654350314	1.56E-08	3.37E-07

ENSMUSG00000073415	297.7103718	-0.721902133	0.197479573	-3.655578761	0.000256602	0.00207487
ENSMUSG00000005718	2932.923848	-0.720301804	0.107762202	-6.684178567	2.32E-11	7.70E-10
ENSMUSG00000079139	291.8881487	-0.719916282	0.202276387	-3.559072283	0.000372167	0.002878841
ENSMUSG00000066196	54.88282945	-0.719578342	0.317013016	-2.269870023	0.02321547	0.083883378
ENSMUSG000000112908	59.37477285	-0.718199491	0.352978408	-2.034683922	0.041882687	0.13254233
ENSMUSG00000038319	92.46933065	-0.71818212	0.324004096	-2.216583462	0.026651569	0.093702764
ENSMUSG00000013236	5690.262853	-0.717937707	0.125030422	-5.742104147	9.35E-09	2.10E-07
ENSMUSG000000113128	89.06035709	-0.717120189	0.326572151	-2.195901236	0.028099013	0.097377113
ENSMUSG00000061762	426.4999941	-0.71688923	0.260235851	-2.754767367	0.005873388	0.028253327
ENSMUSG00000034245	3594.344662	-0.716506697	0.145393414	-4.928054684	8.31E-07	1.27E-05
ENSMUSG00000032849	765.4884031	-0.716127518	0.178529529	-4.011255285	6.04E-05	0.000591528
ENSMUSG00000001123	17170.68481	-0.714585772	0.118286986	-6.041119107	1.53E-09	3.89E-08
ENSMUSG000000103789	66.36316829	-0.714175367	0.303081029	-2.35638426	0.018453817	0.069965757
ENSMUSG00000022346	15167.97107	-0.713718539	0.125910916	-5.668440545	1.44E-08	3.12E-07
ENSMUSG00000099931	307.0094066	-0.713214901	0.199044715	-3.583189334	0.000339424	0.002655035
ENSMUSG00000056501	2331.430306	-0.711242457	0.112392399	-6.32820779	2.48E-10	7.06E-09
ENSMUSG00000026956	1289.573604	-0.710390963	0.148581217	-4.781162639	1.74E-06	2.50E-05
ENSMUSG00000047654	151.5276328	-0.71024022	0.220920309	-3.214915922	0.001304827	0.008252681
ENSMUSG00000050747	126.2650743	-0.709889963	0.354592063	-2.00199056	0.045285747	0.140617856
ENSMUSG00000048329	267.8036907	-0.709813749	0.21984787	-3.228658742	0.001243722	0.007933709
ENSMUSG00000026496	9927.000814	-0.709633665	0.127143316	-5.581368243	2.39E-08	4.97E-07
ENSMUSG00000046861	4782.412831	-0.708713224	0.125013122	-5.669110677	1.44E-08	3.11E-07
ENSMUSG00000022805	47.32842658	-0.708312749	0.359684282	-1.969262448	0.048922961	0.148873874
ENSMUSG00000087543	169.080138	-0.707857699	0.208745827	-3.391002871	0.000696374	0.004896495
ENSMUSG000000111291	150.9475531	-0.707673074	0.271143247	-2.609960165	0.009055277	0.040107592
ENSMUSG00000073043	689.254373	-0.707254451	0.204284581	-3.462103938	0.00053597	0.003924054
ENSMUSG00000043243	205.2728027	-0.706444647	0.182595163	-3.868912167	0.000109322	0.000989454
ENSMUSG00000049382	86807.24206	-0.706207376	0.118009177	-5.98434286	2.17E-09	5.41E-08
ENSMUSG00000020905	5202.038176	-0.706104446	0.101967898	-6.924771985	4.37E-12	1.58E-10

ENSMUSG00000021814	2605.922599	-0.705058763	0.178059731	-3.959675552	7.51E-05	0.00071588
ENSMUSG00000087484	106.1574097	-0.704679344	0.269721472	-2.612618634	0.00898515	0.039851276
ENSMUSG00000024190	6547.037464	-0.704322789	0.352892429	-1.995856902	0.045949501	0.14206569
ENSMUSG00000066894	3652.936598	-0.703728534	0.10915013	-6.447344884	1.14E-10	3.43E-09
ENSMUSG00000071103	123.3646789	-0.702582021	0.247610808	-2.83744489	0.00454762	0.022934524
ENSMUSG00000030124	658.128952	-0.702128176	0.188165219	-3.731445055	0.000190385	0.001604598
ENSMUSG00000038980	824.7291819	-0.702075485	0.171728537	-4.088286662	4.35E-05	0.000442326
ENSMUSG00000086604	57.09132256	-0.701214509	0.339256267	-2.066916892	0.038741986	0.125010077
ENSMUSG00000100183	72.71638464	-0.700385467	0.282841092	-2.476250753	0.013277029	0.054080553
ENSMUSG00000035547	1548.823353	-0.698217387	0.112807534	-6.189457065	6.04E-10	1.62E-08
ENSMUSG00000042349	3302.010177	-0.698203417	0.130353716	-5.356221827	8.50E-08	1.63E-06
ENSMUSG00000078439	7576.789742	-0.698181316	0.153298712	-4.554384741	5.25E-06	6.75E-05
ENSMUSG00000097197	90.85805753	-0.697480942	0.276717658	-2.520550899	0.011717129	0.049034283
ENSMUSG00000030214	2855.509903	-0.69737679	0.14130098	-4.935399523	8.00E-07	1.23E-05
ENSMUSG00000062867	17239.80661	-0.696939828	0.114622614	-6.080299546	1.20E-09	3.09E-08
ENSMUSG00000097013	72.69049105	-0.695774292	0.344174807	-2.021572402	0.043220546	0.13565959
ENSMUSG00000049892	1445.843767	-0.695736307	0.205323534	-3.388487883	0.000702791	0.004934808
ENSMUSG00000093606	168.6765321	-0.695272242	0.238981101	-2.909318935	0.003622171	0.01905592
ENSMUSG00000096740	243.2904009	-0.693797208	0.255841567	-2.711823637	0.006691418	0.031462223
ENSMUSG00000074604	1169.712635	-0.69373886	0.129396721	-5.361332617	8.26E-08	1.58E-06
ENSMUSG00000051146	86.07977177	-0.692855652	0.320598226	-2.161133767	0.030685008	0.104156219
ENSMUSG00000001288	111.0887641	-0.691938725	0.27924186	-2.477919051	0.013215112	0.053877554
ENSMUSG00000017607	4599.548869	-0.691722774	0.142642143	-4.849357714	1.24E-06	1.83E-05
ENSMUSG00000034275	1937.798796	-0.691716267	0.206685364	-3.346711418	0.000817763	0.005613091
ENSMUSG00000085890	672.6565083	-0.691459559	0.136204838	-5.076615262	3.84E-07	6.34E-06
ENSMUSG00000057246	144.902492	-0.691366907	0.227205103	-3.042919802	0.002342948	0.013418099
ENSMUSG00000037126	87.21862064	-0.690986313	0.336789842	-2.051683948	0.040200388	0.128587041
ENSMUSG00000030729	2230.924277	-0.690935211	0.142239839	-4.857536502	1.19E-06	1.76E-05
ENSMUSG00000024736	1556.900055	-0.689353376	0.13550415	-5.087322973	3.63E-07	6.02E-06

ENSMUSG00000044365	65.33369548	-0.689099768	0.324331852	-2.12467497	0.033613743	0.111935684
ENSMUSG00000016637	404.0047253	-0.688782004	0.150178231	-4.586430395	4.51E-06	5.89E-05
ENSMUSG00000004085	6932.041292	-0.688464535	0.14527505	-4.739041813	2.15E-06	3.00E-05
ENSMUSG00000035944	1171.111661	-0.687955673	0.13982021	-4.920287806	8.64E-07	1.32E-05
ENSMUSG00000073433	237.1210805	-0.685890343	0.1901471	-3.607156476	0.000309571	0.002452484
ENSMUSG00000053128	362.3784185	-0.685868189	0.263957798	-2.598400935	0.009365907	0.041213315
ENSMUSG00000023247	1166.803533	-0.684775035	0.194256977	-3.525098791	0.000423325	0.003216548
ENSMUSG00000040891	2483.829583	-0.684081003	0.141350047	-4.839623444	1.30E-06	1.91E-05
ENSMUSG00000012126	117.2210002	-0.683527667	0.265572258	-2.573791678	0.010059082	0.043555509
ENSMUSG000000111665	86.52102118	-0.682910035	0.286839129	-2.380811982	0.017274526	0.066432008
ENSMUSG00000068262	87.51242226	-0.682757091	0.284566954	-2.399284531	0.016427145	0.063833726
ENSMUSG00000049649	95.39338541	-0.682422668	0.31183884	-2.188382523	0.02864175	0.09878436
ENSMUSG00000020140	7875.731328	-0.679616661	0.131144734	-5.182187965	2.19E-07	3.82E-06
ENSMUSG00000019978	5081.194689	-0.679465287	0.103132251	-6.588291077	4.45E-11	1.40E-09
ENSMUSG00000050106	284.7849543	-0.678853288	0.231888772	-2.92749529	0.003417042	0.01823922
ENSMUSG00000021830	1900.168914	-0.678524639	0.128211001	-5.29224974	1.21E-07	2.23E-06
ENSMUSG00000085704	993.3598659	-0.678160537	0.214016688	-3.168727373	0.001531079	0.009437424
ENSMUSG00000015312	3021.110192	-0.676878877	0.196639376	-3.44223467	0.00057693	0.004180021
ENSMUSG000000110750	49.16324541	-0.676752418	0.340665508	-1.986559844	0.046971195	0.144503327
ENSMUSG00000042104	91.83077423	-0.675528122	0.277986705	-2.430073486	0.015095762	0.059808929
ENSMUSG00000060224	1184.78261	-0.673884467	0.146697215	-4.593710035	4.35E-06	5.71E-05
ENSMUSG00000041607	4847.208878	-0.673846394	0.13030676	-5.171231293	2.33E-07	4.03E-06
ENSMUSG00000026688	3171.894867	-0.67333638	0.137079174	-4.91202536	9.01E-07	1.37E-05
ENSMUSG00000055159	64.25505107	-0.672447158	0.337369795	-1.99320499	0.046239005	0.142762848
ENSMUSG00000020334	133.8044897	-0.672000641	0.284082703	-2.365510587	0.018005229	0.068661867
ENSMUSG00000038425	1149.363834	-0.671788776	0.126018062	-5.33089277	9.77E-08	1.84E-06
ENSMUSG00000015846	3673.440439	-0.671665273	0.11481584	-5.849935607	4.92E-09	1.15E-07
ENSMUSG00000057969	3391.939844	-0.671260795	0.166070056	-4.042033902	5.30E-05	0.000527789
ENSMUSG00000026856	1659.369019	-0.670930949	0.136390516	-4.919190641	8.69E-07	1.33E-05

ENSMUSG00000044551	100.4597016	-0.670633415	0.251611212	-2.665355844	0.00769069	0.035224906
ENSMUSG00000037466	2612.460269	-0.670043969	0.112317868	-5.965604438	2.44E-09	6.02E-08
ENSMUSG00000006360	5035.079332	-0.669299327	0.125542116	-5.331273285	9.75E-08	1.84E-06
ENSMUSG00000018983	1805.615412	-0.668687212	0.142084077	-4.706278339	2.52E-06	3.48E-05
ENSMUSG00000069793	7651.549333	-0.667792232	0.200811798	-3.325463142	0.000882718	0.006003503
ENSMUSG00000063160	141.5375272	-0.667001124	0.255216243	-2.613474424	0.008962679	0.039792297
ENSMUSG00000038776	1269.926409	-0.6664249	0.190167137	-3.50441675	0.000457609	0.003434914
ENSMUSG00000033998	3617.977741	-0.665675562	0.108416799	-6.139966923	8.25E-10	2.19E-08
ENSMUSG00000041605	4609.377087	-0.664658164	0.100760655	-6.596405775	4.21E-11	1.34E-09
ENSMUSG00000029061	101.724112	-0.664374278	0.274305496	-2.422023207	0.015434365	0.060928237
ENSMUSG00000040562	1344.411125	-0.664359499	0.173715247	-3.82441674	0.000131082	0.001159564
ENSMUSG00000045005	13832.87356	-0.663783889	0.111949879	-5.929295293	3.04E-09	7.42E-08
ENSMUSG00000045730	622.4504468	-0.663359391	0.266546681	-2.488717501	0.012820479	0.052547235
ENSMUSG00000075611	740.857167	-0.661447079	0.226019113	-2.926509493	0.00342789	0.018281022
ENSMUSG00000034686	103.517424	-0.660757352	0.300486389	-2.198959338	0.027880814	0.096803678
ENSMUSG00000050627	4453.702827	-0.660667853	0.107838681	-6.12644598	8.99E-10	2.36E-08
ENSMUSG00000101655	450.1710603	-0.660652666	0.157923396	-4.183374233	2.87E-05	0.000304717
ENSMUSG00000038058	1279.928087	-0.660018845	0.133519962	-4.943222222	7.68E-07	1.19E-05
ENSMUSG00000030091	8954.956784	-0.658912723	0.129858385	-5.074086854	3.89E-07	6.41E-06
ENSMUSG00000045165	154.7532421	-0.658648383	0.205477191	-3.205457405	0.00134848	0.008492206
ENSMUSG00000052040	6430.956383	-0.658482779	0.123722414	-5.322259376	1.02E-07	1.92E-06
ENSMUSG00000026961	292.0375344	-0.657684691	0.233842728	-2.812508636	0.00491567	0.024513498
ENSMUSG00000037788	456.7596461	-0.657447907	0.184424317	-3.564865615	0.000364043	0.002825797
ENSMUSG00000000782	1151.529234	-0.657367775	0.145846992	-4.507242592	6.57E-06	8.21E-05
ENSMUSG00000037846	167.2766204	-0.657347279	0.214781821	-3.060534998	0.002209419	0.012784516
ENSMUSG00000084835	143.9292497	-0.657238946	0.262951436	-2.499468941	0.01243796	0.051290486
ENSMUSG00000063065	6889.624324	-0.65703662	0.125198267	-5.247968964	1.54E-07	2.77E-06
ENSMUSG00000085894	138.5433051	-0.656247518	0.246189936	-2.665614723	0.007684771	0.035205027
ENSMUSG00000056753	907.7423323	-0.656232559	0.196997254	-3.33117618	0.000864799	0.00590194

ENSMUSG00000097643	114.0123197	-0.655873698	0.260061405	-2.521995516	0.01166912	0.048860878
ENSMUSG00000104719	702.5626954	-0.654990246	0.192520228	-3.402189231	0.000668483	0.00473265
ENSMUSG00000075302	62.05519447	-0.653682924	0.307011602	-2.129179875	0.033239381	0.1111101835
ENSMUSG00000023262	1813.788158	-0.6536384	0.132216245	-4.943707175	7.67E-07	1.19E-05
ENSMUSG00000022178	333.0212484	-0.653581078	0.192098937	-3.40231492	0.000668176	0.004732405
ENSMUSG00000001604	3254.7876	-0.653552971	0.161365419	-4.050142677	5.12E-05	0.000511887
ENSMUSG00000035711	136.6309853	-0.652937249	0.252824445	-2.582571671	0.009806699	0.042698008
ENSMUSG00000039457	1588.119904	-0.652158825	0.117121954	-5.568203099	2.57E-08	5.31E-07
ENSMUSG00000091956	592.9813486	-0.652071125	0.161316664	-4.042180825	5.30E-05	0.000527694
ENSMUSG00000034265	742.8990661	-0.651645959	0.135030562	-4.825914584	1.39E-06	2.03E-05
ENSMUSG00000044636	866.1801777	-0.651280497	0.134471211	-4.843270846	1.28E-06	1.88E-05
ENSMUSG00000096950	243.1564885	-0.651194909	0.196581356	-3.312597496	0.000924339	0.006237121
ENSMUSG00000048696	1371.777601	-0.650143849	0.131996287	-4.925470733	8.42E-07	1.29E-05
ENSMUSG00000102840	81.06738486	-0.649649424	0.277919642	-2.337544118	0.01941091	0.072741169
ENSMUSG00000044390	167.5333893	-0.648492747	0.208678881	-3.107610815	0.001886063	0.011228265
ENSMUSG00000040624	744.2873457	-0.64787199	0.165522358	-3.914105619	9.07E-05	0.00084106
ENSMUSG00000078619	11517.39787	-0.647384151	0.094619801	-6.841952171	7.81E-12	2.73E-10
ENSMUSG00000027225	293.7445955	-0.647301446	0.280809229	-2.305128813	0.02115936	0.077957194
ENSMUSG00000024424	256.0694862	-0.647007404	0.256241514	-2.524990558	0.01157014	0.04856497
ENSMUSG00000010175	476.451475	-0.64672985	0.169811205	-3.808522827	0.000139799	0.001227142
ENSMUSG00000056602	2371.641283	-0.646621533	0.212223762	-3.046885642	0.002312257	0.013255908
ENSMUSG00000034684	403.0426595	-0.645602026	0.162869664	-3.963918211	7.37E-05	0.000705683
ENSMUSG00000026187	2027.80167	-0.644472714	0.139911577	-4.606285824	4.10E-06	5.42E-05
ENSMUSG00000032593	678.6779	-0.643864401	0.167097034	-3.853236572	0.000116567	0.001046098
ENSMUSG00000053646	2950.493772	-0.643819681	0.143269242	-4.493774604	7.00E-06	8.68E-05
ENSMUSG00000020592	7192.492012	-0.642630137	0.10479068	-6.132512303	8.65E-10	2.28E-08
ENSMUSG00000037992	3364.943051	-0.639235909	0.10269617	-6.224535053	4.83E-10	1.32E-08
ENSMUSG00000000532	3589.086538	-0.639063364	0.136782621	-4.672109373	2.98E-06	4.03E-05
ENSMUSG00000074340	146.3767662	-0.638292808	0.217861787	-2.929806171	0.003391735	0.018125828

ENSMUSG00000040430	231.4784507	-0.637756624	0.192127436	-3.319445872	0.000901963	0.006113883
ENSMUSG00000031824	430.0636553	-0.636508249	0.209433011	-3.039197327	0.002372094	0.013550224
ENSMUSG00000028634	163.6269207	-0.636090334	0.207113299	-3.071219164	0.002131866	0.012406771
ENSMUSG00000038604	701.5390103	-0.635963989	0.129751274	-4.901408431	9.52E-07	1.44E-05
ENSMUSG00000047146	627.1957682	-0.635562729	0.148336302	-4.284606814	1.83E-05	0.000205356
ENSMUSG00000055675	965.0001017	-0.635425669	0.215936988	-2.942643944	0.003254225	0.017538229
ENSMUSG00000067714	1149.398447	-0.635219774	0.117368759	-5.412170846	6.23E-08	1.22E-06
ENSMUSG00000020099	422.7611156	-0.635068659	0.179491387	-3.538156729	0.000402931	0.003081536
ENSMUSG00000016526	362.7747409	-0.634977574	0.170345272	-3.727591428	0.000193318	0.001626173
ENSMUSG00000063445	1039.020317	-0.633756204	0.126866894	-4.995441936	5.87E-07	9.25E-06
ENSMUSG00000089854	85.55309551	-0.633619227	0.26976985	-2.348739959	0.018837057	0.071080408
ENSMUSG00000033059	3997.492183	-0.632945392	0.10820631	-5.84943147	4.93E-09	1.16E-07
ENSMUSG00000068547	170.2460651	-0.632943574	0.266038362	-2.379144005	0.017352895	0.066675899
ENSMUSG00000029445	473.6313492	-0.632489975	0.265426525	-2.382919244	0.017175962	0.066121375
ENSMUSG00000071041	260.7273385	-0.632450427	0.190845382	-3.313941478	0.000919908	0.006216263
ENSMUSG00000097088	106.9354123	-0.631584164	0.258633731	-2.442002296	0.014606054	0.058374481
ENSMUSG00000028391	424.3362949	-0.631348399	0.181344101	-3.481493993	0.000498625	0.003702909
ENSMUSG00000032577	2594.986049	-0.631006319	0.115075523	-5.483410413	4.17E-08	8.35E-07
ENSMUSG00000078653	298.397495	-0.630388296	0.205670105	-3.065045823	0.002176366	0.012615667
ENSMUSG00000041570	135.4898427	-0.62961451	0.247961658	-2.539160758	0.011111875	0.047129313
ENSMUSG00000006494	3555.537069	-0.629545594	0.098982112	-6.360195626	2.01E-10	5.85E-09
ENSMUSG00000043372	251.4942752	-0.629492126	0.185987277	-3.384597793	0.000712826	0.004994262
ENSMUSG00000022686	72.73099329	-0.629252956	0.294898166	-2.133797456	0.032859364	0.110228141
ENSMUSG00000052949	487.0919591	-0.628315719	0.221046434	-2.842460328	0.00447668	0.022633064
ENSMUSG00000026200	983.2077299	-0.626296604	0.17919842	-3.494989543	0.00047408	0.003541864
ENSMUSG00000027317	2519.491373	-0.625626626	0.121592332	-5.145280255	2.67E-07	4.58E-06
ENSMUSG00000028607	2436.056129	-0.625296283	0.116766325	-5.355108	8.55E-08	1.63E-06
ENSMUSG00000044345	533.7784358	-0.624998624	0.163339757	-3.826371708	0.000130046	0.001152226
ENSMUSG00000015467	76.12963893	-0.624111546	0.303421334	-2.056913854	0.039694513	0.12737084

ENSMUSG00000063785	3439.998487	-0.623793209	0.136012335	-4.586298811	4.51E-06	5.89E-05
ENSMUSG00000022419	6202.83176	-0.623204739	0.1502278	-4.148398222	3.35E-05	0.000349396
ENSMUSG00000090207	320.7190965	-0.623067279	0.20050497	-3.107490439	0.001886831	0.011229841
ENSMUSG00000027950	247.4692573	-0.62256002	0.189923984	-3.277943129	0.001045665	0.006907395
ENSMUSG00000023079	7909.839128	-0.622070565	0.110511905	-5.628991417	1.81E-08	3.86E-07
ENSMUSG00000001995	3372.702043	-0.621948137	0.120582518	-5.15786323	2.50E-07	4.30E-06
ENSMUSG00000087396	795.3635688	-0.621587754	0.159522286	-3.896557458	9.76E-05	0.000897279
ENSMUSG00000016128	2595.064208	-0.621502426	0.133603943	-4.651826986	3.29E-06	4.41E-05
ENSMUSG00000056214	233.4250742	-0.621476007	0.202580808	-3.067793103	0.002156459	0.012523746
ENSMUSG00000041440	1582.474714	-0.619980148	0.129881344	-4.773434953	1.81E-06	2.58E-05
ENSMUSG00000060147	2605.162232	-0.619514317	0.137116054	-4.518174917	6.24E-06	7.83E-05
ENSMUSG00000036975	609.0894306	-0.618485942	0.133089565	-4.64714076	3.37E-06	4.49E-05
ENSMUSG00000062093	122.7416796	-0.618054046	0.24965312	-2.475651194	0.013299344	0.054151664
ENSMUSG00000079297	141.9556234	-0.616544032	0.28316851	-2.177304364	0.029457866	0.100953317
ENSMUSG00000020973	88.73168151	-0.616317432	0.254720581	-2.419582391	0.01553834	0.061233527
ENSMUSG00000031840	281.3082491	-0.616139772	0.17956541	-3.431283187	0.000600733	0.004325783
ENSMUSG00000057315	250.3608225	-0.616055737	0.237695493	-2.591785514	0.009547928	0.041824462
ENSMUSG00000029821	308.29715	-0.615345351	0.224004972	-2.747016482	0.006014011	0.028780786
ENSMUSG00000025876	369.5655841	-0.615005447	0.200070402	-3.073945176	0.002112482	0.012316463
ENSMUSG00000090330	257.5844042	-0.614622436	0.217234132	-2.829308777	0.004664867	0.023430449
ENSMUSG00000040433	13155.90746	-0.614543139	0.171761996	-3.577876085	0.000346398	0.002701053
ENSMUSG00000037280	4953.642247	-0.614214532	0.108640177	-5.653659139	1.57E-08	3.38E-07
ENSMUSG00000022090	244.7134149	-0.613816064	0.211823431	-2.897772261	0.003758234	0.019626524
ENSMUSG00000038400	608.4789519	-0.61350614	0.17876121	-3.431986958	0.000599176	0.004321137
ENSMUSG00000018415	3133.89594	-0.61331748	0.151460645	-4.049352093	5.14E-05	0.000513389
ENSMUSG00000030681	3953.136722	-0.612783607	0.116731487	-5.249514272	1.53E-07	2.76E-06
ENSMUSG00000065523	78.0533411	-0.61228976	0.308243668	-1.986382284	0.046990892	0.144543985
ENSMUSG00000070643	3164.21878	-0.61196467	0.112491351	-5.44010417	5.32E-08	1.05E-06
ENSMUSG00000027860	683.7265035	-0.611697407	0.168512967	-3.629972333	0.000283452	0.00226975



ENSMUSG00000073424	319.8660921	-0.610323106	0.220301596	-2.770398023	0.005598783	0.027172678
ENSMUSG00000016495	1398.748449	-0.610262088	0.136238551	-4.479364193	7.49E-06	9.20E-05
ENSMUSG00000017386	3114.331407	-0.610142635	0.113059052	-5.396672121	6.79E-08	1.32E-06
ENSMUSG00000032411	4502.772328	-0.60993785	0.153833891	-3.96491207	7.34E-05	0.000703051
ENSMUSG00000032606	385.8618447	-0.609458766	0.218081373	-2.79463926	0.005195766	0.025635126
ENSMUSG00000026669	5249.852265	-0.608853019	0.141191798	-4.312240708	1.62E-05	0.000184255
ENSMUSG00000001098	2574.242194	-0.608787361	0.12224717	-4.979970984	6.36E-07	9.95E-06
ENSMUSG00000031220	77.39591356	-0.608727328	0.287969585	-2.113859798	0.034527244	0.114305784
ENSMUSG00000052151	4044.541382	-0.608467831	0.136067108	-4.471821574	7.76E-06	9.50E-05
ENSMUSG00000097006	268.2470063	-0.608092194	0.238892131	-2.54546766	0.010913147	0.04648092
ENSMUSG00000029475	3644.364424	-0.607096351	0.116931841	-5.191882245	2.08E-07	3.65E-06
ENSMUSG00000040875	1379.284909	-0.607088555	0.119690913	-5.072135706	3.93E-07	6.46E-06
ENSMUSG00000023050	480.995984	-0.60703375	0.221116061	-2.745317308	0.006045242	0.028886851
ENSMUSG00000033590	11405.49382	-0.605838231	0.115030134	-5.266778452	1.39E-07	2.53E-06
ENSMUSG00000003526	3543.044351	-0.605816253	0.129398956	-4.681770784	2.84E-06	3.87E-05
ENSMUSG00000030703	181.7077162	-0.605560471	0.232164841	-2.608321175	0.009098754	0.040291443
ENSMUSG00000030748	1584.62448	-0.60492255	0.143347421	-4.21997512	2.44E-05	0.000263354
ENSMUSG00000109408	157.6372268	-0.604914584	0.247159128	-2.447470131	0.014386305	0.057713435
ENSMUSG00000054206	300.1478935	-0.604561745	0.187241941	-3.228773103	0.001243225	0.007932806
ENSMUSG00000006585	4081.38495	-0.604330165	0.111325551	-5.428494734	5.68E-08	1.12E-06
ENSMUSG00000091449	87.95425224	-0.602893868	0.270374163	-2.229850146	0.025757393	0.091075887
ENSMUSG00000050677	118.2663183	-0.602784516	0.25521361	-2.361882327	0.018182413	0.069147841
ENSMUSG00000089715	1550.387	-0.602276872	0.195861449	-3.07501489	0.00210492	0.012278794
ENSMUSG00000026389	1188.088397	-0.60194178	0.132605321	-4.539348601	5.64E-06	7.16E-05
ENSMUSG00000051359	1414.87842	-0.600794658	0.180520965	-3.328115699	0.000874355	0.005957532
ENSMUSG00000021456	5111.451735	-0.600545356	0.123642188	-4.857123347	1.19E-06	1.76E-05
ENSMUSG00000028063	4802.353316	-0.59975172	0.181583259	-3.302902065	0.000956898	0.006409495
ENSMUSG00000032292	1428.693748	-0.599177652	0.209690551	-2.857437534	0.004270767	0.021790762
ENSMUSG00000046223	126.3396766	-0.598921846	0.244344026	-2.451141766	0.014240386	0.057272288

ENSMUSG00000034112	2364.846749	-0.598687977	0.146426606	-4.088655696	4.34E-05	0.000441825
ENSMUSG00000034312	3764.946948	-0.597937147	0.118496726	-5.046022532	4.51E-07	7.34E-06
ENSMUSG00000047945	4055.045998	-0.597923146	0.162599084	-3.677284844	0.00023573	0.001932014
ENSMUSG00000045216	3633.933532	-0.597813795	0.137401087	-4.350866558	1.36E-05	0.000157092
ENSMUSG00000032252	1107.860605	-0.597475404	0.153659779	-3.888300568	0.000100949	0.00092454
ENSMUSG00000021556	12305.0245	-0.597421337	0.13071679	-4.57034891	4.87E-06	6.31E-05
ENSMUSG00000046408	177.9777621	-0.597420208	0.284552397	-2.099508613	0.035772089	0.117524067
ENSMUSG00000036820	1302.973239	-0.597292975	0.154738836	-3.860006898	0.000113384	0.001021646
ENSMUSG00000007030	107.3282474	-0.597226462	0.297142604	-2.009898463	0.044441937	0.138557196
ENSMUSG00000041560	13902.71302	-0.596745407	0.114110682	-5.229531503	1.70E-07	3.05E-06
ENSMUSG00000100876	413.0696819	-0.596404155	0.172904921	-3.449318577	0.000562003	0.004085148
ENSMUSG00000046341	230.0867654	-0.595923645	0.221149154	-2.69466843	0.007045871	0.032796903
ENSMUSG00000091086	186.9909756	-0.595567399	0.191118774	-3.116216085	0.00183188	0.010958356
ENSMUSG00000022797	23035.72058	-0.593374597	0.148179229	-4.004438417	6.22E-05	0.000607512
ENSMUSG00000036091	197.1542984	-0.593051633	0.228106008	-2.599894836	0.009325233	0.041051866
ENSMUSG00000058064	164.9849835	-0.592367115	0.230873325	-2.56576681	0.010294801	0.044372702
ENSMUSG00000030096	7862.449373	-0.592029945	0.140641608	-4.209493556	2.56E-05	0.000274678
ENSMUSG00000060716	6832.346413	-0.591930629	0.108686547	-5.44621801	5.15E-08	1.02E-06
ENSMUSG00000072660	82.78299302	-0.591795935	0.291127876	-2.032769733	0.042075792	0.132945912
ENSMUSG00000000792	390.7873465	-0.591727958	0.194832424	-3.037112343	0.002388564	0.013623368
ENSMUSG00000086583	1903.510481	-0.591483269	0.137356377	-4.306194449	1.66E-05	0.000188494
ENSMUSG00000026414	458.0679234	-0.591345475	0.191225047	-3.09240595	0.001985411	0.011716501
ENSMUSG00000030935	1489.955182	-0.590906406	0.146594928	-4.030878925	5.56E-05	0.000549064
ENSMUSG00000093445	66.27930276	-0.58988591	0.291526766	-2.02343654	0.04302816	0.135150845
ENSMUSG00000019312	7815.05789	-0.588939399	0.132807201	-4.434544165	9.23E-06	0.000110686
ENSMUSG00000041842	2846.457969	-0.588903297	0.139321582	-4.226935193	2.37E-05	0.000256582
ENSMUSG00000108207	122.2934922	-0.588586216	0.262673421	-2.240752847	0.025042089	0.089140243
ENSMUSG00000029438	3528.651228	-0.587674286	0.118729072	-4.949708399	7.43E-07	1.15E-05
ENSMUSG00000032121	323.1363428	-0.586275673	0.173225939	-3.384456597	0.000713193	0.004995262

ENSMUSG00000047003	591.0359688	-0.586267337	0.141417828	-4.145639532	3.39E-05	0.000353299
ENSMUSG00000024743	252.7042434	-0.586002777	0.274698167	-2.133260597	0.032903355	0.110276181
ENSMUSG00000027864	6593.44833	-0.585725649	0.118678212	-4.935410108	8.00E-07	1.23E-05
ENSMUSG00000046447	2100.653128	-0.585407498	0.114357177	-5.119114632	3.07E-07	5.19E-06
ENSMUSG00000050050	93.58070607	-0.584925455	0.284443908	-2.056382434	0.039745668	0.127443299
ENSMUSG00000053852	99.3696482	-0.58459962	0.284238284	-2.056723718	0.039712809	0.127392889
ENSMUSG00000111920	178.650884	-0.584509299	0.227090813	-2.573901126	0.010055901	0.043555509
ENSMUSG00000026110	9972.978385	-0.583725603	0.129998557	-4.490246789	7.11E-06	8.80E-05
ENSMUSG00000037151	317.3953696	-0.583446286	0.170009879	-3.431837535	0.000599507	0.004321137
ENSMUSG00000021257	375.96705	-0.583439289	0.16889055	-3.454540761	0.000551231	0.004019948
ENSMUSG00000108624	146.6250531	-0.583344485	0.233062314	-2.502955004	0.01231612	0.050929315
ENSMUSG00000078651	548.9374964	-0.582519059	0.136085263	-4.28054476	1.86E-05	0.000208302
ENSMUSG00000037251	817.1303964	-0.582118832	0.122707952	-4.743937299	2.10E-06	2.94E-05
ENSMUSG00000040618	5172.071912	-0.581557911	0.115452436	-5.037207783	4.72E-07	7.65E-06
ENSMUSG00000022176	240.1526193	-0.580161857	0.225790556	-2.569469099	0.010185448	0.044003422
ENSMUSG00000033740	294.0471238	-0.580114679	0.223027375	-2.601091817	0.009292758	0.040939904
ENSMUSG00000023994	4294.789356	-0.57933479	0.140753373	-4.115956721	3.86E-05	0.000396438
ENSMUSG00000037033	172758.1346	-0.578622534	0.096626066	-5.988265468	2.12E-09	5.30E-08
ENSMUSG00000027329	748.5191616	-0.577885003	0.202917743	-2.847878138	0.004401177	0.022337428
ENSMUSG00000032280	6858.759083	-0.577090762	0.110612086	-5.217248692	1.82E-07	3.22E-06
ENSMUSG00000006641	1106.16211	-0.577020792	0.154738617	-3.729003166	0.000192239	0.00161839
ENSMUSG00000036026	5289.308088	-0.576931358	0.112623574	-5.122651849	3.01E-07	5.09E-06
ENSMUSG00000039754	511.4919927	-0.576698258	0.156084264	-3.694787943	0.00022007	0.001823779
ENSMUSG00000038712	2308.186993	-0.576156495	0.121487471	-4.742517798	2.11E-06	2.96E-05
ENSMUSG00000046879	1936.005673	-0.576142933	0.152057946	-3.78896958	0.000151273	0.001310116
ENSMUSG00000040734	816.6179063	-0.575134729	0.139539644	-4.121658284	3.76E-05	0.000388363
ENSMUSG00000036745	218.1788452	-0.574363754	0.208933989	-2.74902019	0.00597737	0.028636163
ENSMUSG00000069833	4520.843338	-0.574019787	0.183650268	-3.125613654	0.001774345	0.010650163
ENSMUSG00000104316	322.481412	-0.573986613	0.170014781	-3.376098291	0.000735216	0.00512377

ENSMUSG00000041515	5413.235724	-0.573681498	0.150846381	-3.803084254	0.000142906	0.001248312
ENSMUSG00000073771	1242.55802	-0.573440609	0.172452278	-3.325213302	0.000883509	0.006007054
ENSMUSG00000028337	4439.039453	-0.573081115	0.1144447814	-5.007357443	5.52E-07	8.75E-06
ENSMUSG00000003934	154.4679411	-0.572978684	0.228629862	-2.506141059	0.012205692	0.050613449
ENSMUSG00000034957	7807.735454	-0.572692488	0.091600128	-6.252092675	4.05E-10	1.12E-08
ENSMUSG00000058603	418.5968206	-0.572473301	0.156420758	-3.659829472	0.000252383	0.002045946
ENSMUSG00000104114	215.4266824	-0.572176981	0.201012471	-2.846475045	0.004420619	0.022405507
ENSMUSG00000014837	621.0342405	-0.572085005	0.158429825	-3.610967861	0.000305056	0.002423607
ENSMUSG00000047875	261.9118065	-0.571495232	0.204391637	-2.796079331	0.00517267	0.02553736
ENSMUSG00000105881	398.9921166	-0.570968589	0.242353861	-2.355929411	0.018476428	0.070039577
ENSMUSG00000042834	109.9200659	-0.570736005	0.236621222	-2.412023736	0.015864249	0.06218819
ENSMUSG00000055612	22046.59476	-0.569699719	0.136722347	-4.166836895	3.09E-05	0.00032551
ENSMUSG00000025757	3344.180303	-0.569110301	0.207190273	-2.746800286	0.006017977	0.028793585
ENSMUSG00000107335	615.3916349	-0.568886116	0.188084462	-3.02463112	0.002489365	0.014108091
ENSMUSG00000051351	1254.438357	-0.568866771	0.124992426	-4.551209923	5.33E-06	6.82E-05
ENSMUSG00000032640	499.7884958	-0.568831107	0.154235096	-3.688078268	0.000225954	0.001864916
ENSMUSG00000032375	100.6377688	-0.568577231	0.248717944	-2.286032209	0.022252374	0.081152935
ENSMUSG00000018543	100.1907033	-0.568450678	0.251059511	-2.264206899	0.023561392	0.084926881
ENSMUSG00000028414	1483.950077	-0.568368974	0.161361766	-3.522327425	0.000427775	0.003245941
ENSMUSG00000035595	661.7243907	-0.568289894	0.190142428	-2.988759012	0.00280113	0.015562529
ENSMUSG00000037580	934.6665253	-0.567924893	0.213460882	-2.660557234	0.007801147	0.035642978
ENSMUSG00000102380	457.116183	-0.567559318	0.170404166	-3.330665737	0.000866386	0.005910452
ENSMUSG00000076431	15535.50134	-0.566785108	0.099375471	-5.703470886	1.17E-08	2.58E-07
ENSMUSG00000048371	2012.385952	-0.565115565	0.124076619	-4.554569329	5.25E-06	6.74E-05
ENSMUSG00000030541	8903.127442	-0.564817415	0.102412825	-5.515104356	3.49E-08	7.03E-07
ENSMUSG00000039065	1037.210359	-0.562715794	0.15525584	-3.624442046	0.000289586	0.002315545
ENSMUSG00000024913	10052.4119	-0.562673163	0.10367152	-5.427461321	5.72E-08	1.12E-06
ENSMUSG00000056687	157.0732327	-0.562392254	0.208732387	-2.694321956	0.0070532	0.032824167
ENSMUSG00000031838	5872.61439	-0.562091319	0.123554509	-4.549338769	5.38E-06	6.87E-05

ENSMUSG00000022773	196.858455	-0.562089233	0.217422861	-2.585235199	0.009731259	0.042469042
ENSMUSG00000031853	14069.39708	-0.561918192	0.110070292	-5.105084971	3.31E-07	5.54E-06
ENSMUSG00000037337	202.2230326	-0.561361357	0.205248483	-2.73503292	0.006237404	0.029671575
ENSMUSG00000023931	125.4343348	-0.560828975	0.244527205	-2.293523846	0.021817864	0.079881824
ENSMUSG00000029587	888.1740983	-0.560566916	0.147559114	-3.798931157	0.000145321	0.001265448
ENSMUSG00000031755	589.0057248	-0.559520686	0.141463984	-3.95521651	7.65E-05	0.000726877
ENSMUSG00000046618	130.1765332	-0.559310533	0.249069471	-2.245600513	0.024729608	0.088295706
ENSMUSG00000046179	3808.930142	-0.559273568	0.15730789	-3.555279822	0.000377577	0.002915632
ENSMUSG00000001761	4054.490866	-0.558576315	0.124536198	-4.485252655	7.28E-06	8.98E-05
ENSMUSG00000027254	263.2656592	-0.558189935	0.188958779	-2.954030175	0.003136533	0.017023079
ENSMUSG00000032359	2877.641967	-0.55689098	0.125921726	-4.422517042	9.76E-06	0.000116406
ENSMUSG00000026955	1897.865212	-0.556767754	0.106506168	-5.227563474	1.72E-07	3.08E-06
ENSMUSG00000048856	932.76246	-0.554542205	0.14165255	-3.914805679	9.05E-05	0.00084002
ENSMUSG00000028024	2022.330048	-0.554396831	0.162048368	-3.421181209	0.000623498	0.004462415
ENSMUSG00000066877	4541.096563	-0.552960026	0.09708573	-5.695585002	1.23E-08	2.69E-07
ENSMUSG00000020212	849.8583563	-0.552935205	0.13824617	-3.999642129	6.34E-05	0.000618871
ENSMUSG00000019832	364.5567763	-0.551767213	0.175094987	-3.151245062	0.00162576	0.009933172
ENSMUSG00000097566	151.037128	-0.55096264	0.226452772	-2.433013455	0.014973744	0.059492157
ENSMUSG00000099098	234.945872	-0.550839778	0.217975408	-2.527073046	0.011501758	0.048341632
ENSMUSG00000038855	827.6405721	-0.550620158	0.171521992	-3.210201506	0.00132642	0.008374831
ENSMUSG00000103940	78.80290713	-0.550521572	0.276349603	-1.992120002	0.046357893	0.142991337
ENSMUSG00000014232	715.5029217	-0.550235782	0.144515107	-3.807462029	0.0001404	0.001230765
ENSMUSG00000045319	1161.108411	-0.550025655	0.124663136	-4.412095452	1.02E-05	0.000121375
ENSMUSG00000025537	348.5036094	-0.549793588	0.206588172	-2.661302354	0.007783902	0.035577242
ENSMUSG00000039952	13276.62406	-0.549682855	0.121957674	-4.507160857	6.57E-06	8.21E-05
ENSMUSG00000035274	524.6308996	-0.548535585	0.162156668	-3.382750727	0.000717637	0.005020085
ENSMUSG00000017009	16780.04341	-0.548339832	0.110913675	-4.943843321	7.66E-07	1.19E-05
ENSMUSG00000036492	180.5291937	-0.547740771	0.272353759	-2.011137177	0.044310969	0.138226175
ENSMUSG00000002910	2177.923662	-0.547626987	0.174017442	-3.146966089	0.001649741	0.010049405

ENSMUSG00000055313	155.1272641	-0.546942969	0.25877641	-2.113573525	0.034551709	0.114357029
ENSMUSG00000000959	3833.815622	-0.54686039	0.130165926	-4.201256093	2.65E-05	0.000283774
ENSMUSG00000025464	1400.150015	-0.546235016	0.112970599	-4.835196237	1.33E-06	1.95E-05
ENSMUSG00000029482	2529.766416	-0.546191103	0.106982925	-5.105404478	3.30E-07	5.54E-06
ENSMUSG00000107881	750.441175	-0.545987545	0.205626835	-2.655234877	0.00792532	0.03604881
ENSMUSG00000062312	10531.08951	-0.545669317	0.117274725	-4.652914929	3.27E-06	4.39E-05
ENSMUSG00000072066	159.9001089	-0.545523618	0.256676441	-2.12533576	0.033558606	0.111833605
ENSMUSG00000043592	3493.166995	-0.545426785	0.10033522	-5.436045159	5.45E-08	1.07E-06
ENSMUSG00000001507	5572.364982	-0.545240468	0.112467036	-4.848002473	1.25E-06	1.84E-05
ENSMUSG00000003863	206.7425176	-0.544667413	0.22846883	-2.383990033	0.017126066	0.065986248
ENSMUSG00000024381	709.4033256	-0.5445703	0.176613845	-3.083395313	0.002046531	0.01199151
ENSMUSG00000085762	242.5525858	-0.544285647	0.188996915	-2.879865239	0.003978452	0.020556871
ENSMUSG00000049225	352.8960363	-0.544122591	0.162895482	-3.340317267	0.000836827	0.00572808
ENSMUSG00000020736	4860.974031	-0.543982512	0.114353116	-4.757041447	1.96E-06	2.78E-05
ENSMUSG00000068876	11409.45744	-0.54380277	0.126188004	-4.309464876	1.64E-05	0.000186392
ENSMUSG00000047040	5565.488106	-0.543262252	0.129147049	-4.206540202	2.59E-05	0.000277756
ENSMUSG00000027544	768.3208258	-0.542603362	0.123853597	-4.381006079	1.18E-05	0.000138365
ENSMUSG00000074500	146.5236605	-0.5424343	0.211770886	-2.561420554	0.010424508	0.044784618
ENSMUSG00000006800	474.7893645	-0.542252305	0.212965358	-2.546199583	0.01089029	0.04641016
ENSMUSG00000021266	5582.320515	-0.541877625	0.107658181	-5.033315796	4.82E-07	7.78E-06
ENSMUSG00000032648	435.2969578	-0.541684355	0.204820271	-2.644681375	0.008176787	0.037017972
ENSMUSG00000024511	1099.072751	-0.541682528	0.168677288	-3.211354266	0.00132111	0.008346194
ENSMUSG00000023031	176.5078857	-0.541065001	0.244856492	-2.209722914	0.027124398	0.0948975
ENSMUSG00000053746	407.834184	-0.54083652	0.201756738	-2.680636717	0.007348224	0.033945546
ENSMUSG00000068732	1181.032985	-0.540554197	0.146152145	-3.69857177	0.000216816	0.001801496
ENSMUSG00000001918	10524.86132	-0.540511755	0.108099086	-5.000151025	5.73E-07	9.05E-06
ENSMUSG00000021918	1568.922561	-0.54013183	0.114527276	-4.716185073	2.40E-06	3.32E-05
ENSMUSG00000015542	839.1412335	-0.539972136	0.165728376	-3.258175515	0.00112131	0.007311796
ENSMUSG00000032399	132709.2718	-0.539644574	0.104296213	-5.174153092	2.29E-07	3.98E-06

ENSMUSG00000021565	461.9702562	-0.538749094	0.199146542	-2.705289724	0.006824484	0.03198672
ENSMUSG00000036046	2714.274682	-0.538597902	0.108928155	-4.944524229	7.63E-07	1.18E-05
ENSMUSG00000055013	7691.016994	-0.538512443	0.100189771	-5.374924375	7.66E-08	1.48E-06
ENSMUSG00000055053	4254.723589	-0.538472631	0.118151306	-4.55748352	5.18E-06	6.67E-05
ENSMUSG00000037279	679.4795167	-0.538409581	0.175422108	-3.069223064	0.002146163	0.012470447
ENSMUSG00000020091	11794.44069	-0.537116528	0.148535225	-3.616088564	0.000299088	0.002383833
ENSMUSG00000059456	2906.341767	-0.536890192	0.128991121	-4.162225959	3.15E-05	0.000331215
ENSMUSG00000034617	1102.404219	-0.536505005	0.144259979	-3.719014861	0.000200001	0.001678039
ENSMUSG00000032091	10065.80367	-0.536177608	0.095427675	-5.618680432	1.92E-08	4.08E-07
ENSMUSG00000038267	2480.833863	-0.536026907	0.12500544	-4.28802865	1.80E-05	0.000202831
ENSMUSG00000048027	13533.66602	-0.535765315	0.143897302	-3.723247824	0.000196676	0.001652007
ENSMUSG00000050288	1316.502265	-0.535741861	0.119022475	-4.50118231	6.76E-06	8.41E-05
ENSMUSG00000037012	288.3164633	-0.534749368	0.188422669	-2.838030964	0.004539278	0.022907996
ENSMUSG00000037103	2483.721401	-0.534296816	0.102921718	-5.191293197	2.09E-07	3.66E-06
ENSMUSG00000045136	3834.153439	-0.534072373	0.137292016	-3.89004683	0.000100225	0.000919044
ENSMUSG00000043099	118.4568844	-0.533901843	0.265158213	-2.013521806	0.044059763	0.137596525
ENSMUSG00000032254	7233.584889	-0.533477024	0.143778317	-3.710413601	0.000206921	0.001727646
ENSMUSG00000034107	1383.305808	-0.532647269	0.18227559	-2.922208439	0.003475589	0.01846174
ENSMUSG00000055134	680.108528	-0.532086125	0.178453183	-2.981656671	0.002866933	0.015846518
ENSMUSG00000111877	169.4474363	-0.531639283	0.221110282	-2.40440779	0.016198692	0.063166119
ENSMUSG00000058799	8892.571964	-0.531022009	0.143221431	-3.707699361	0.000209151	0.001743653
ENSMUSG00000032035	239.9940374	-0.530970756	0.252159216	-2.105696412	0.035230732	0.116001853
ENSMUSG00000063458	148.931972	-0.530048061	0.239747576	-2.210858892	0.02704561	0.094760878
ENSMUSG00000007659	1360.285164	-0.529022949	0.143106648	-3.696704213	0.000218417	0.001813443
ENSMUSG00000045817	29330.95887	-0.528418294	0.1053963	-5.013632309	5.34E-07	8.50E-06
ENSMUSG00000056413	1321.424486	-0.527902686	0.146587854	-3.601271673	0.000316664	0.002498031
ENSMUSG00000052512	14878.56295	-0.526995776	0.13418467	-3.927391823	8.59E-05	0.000805312
ENSMUSG00000026709	2518.420541	-0.526721274	0.143476959	-3.671120983	0.000241489	0.001972691
ENSMUSG00000110702	130.5006246	-0.526676665	0.251212664	-2.096537081	0.036034574	0.118247063

ENSMUSG00000084349	1299.698709	-0.526290955	0.124165594	-4.238621497	2.25E-05	0.000244893
ENSMUSG00000105071	244.3672061	-0.526206387	0.186473114	-2.821888782	0.004774173	0.023904094
ENSMUSG00000023110	4813.387464	-0.526151879	0.108594472	-4.845107392	1.27E-06	1.86E-05
ENSMUSG00000037007	1169.371092	-0.526101719	0.118317117	-4.446539376	8.73E-06	0.000105256
ENSMUSG00000034994	231510.7366	-0.525096189	0.115424144	-4.549275136	5.38E-06	6.87E-05
ENSMUSG00000036813	3303.462479	-0.524850365	0.161479516	-3.250259705	0.001152997	0.007479051
ENSMUSG00000009566	1861.573069	-0.524665219	0.131956887	-3.97603514	7.01E-05	0.000674748
ENSMUSG00000021451	2102.54211	-0.524622259	0.1111773514	-4.693618734	2.68E-06	3.68E-05
ENSMUSG00000036557	122.5179334	-0.524112509	0.241837363	-2.167210648	0.030218796	0.102829211
ENSMUSG00000039199	1050.820536	-0.523180718	0.129654643	-4.035186896	5.46E-05	0.0005401
ENSMUSG00000023088	2681.674394	-0.522679441	0.122787345	-4.256785913	2.07E-05	0.000228618
ENSMUSG00000032358	2868.080051	-0.522004672	0.122236028	-4.270464939	1.95E-05	0.000216534
ENSMUSG00000047434	1805.59246	-0.521039323	0.120747269	-4.315123057	1.60E-05	0.000182333
ENSMUSG00000021990	7754.566629	-0.519265242	0.094782427	-5.478496982	4.29E-08	8.56E-07
ENSMUSG00000030094	2214.113283	-0.518421163	0.114310877	-4.535186665	5.76E-06	7.30E-05
ENSMUSG00000022211	373.8395612	-0.518046531	0.194062182	-2.669487297	0.007596715	0.034880448
ENSMUSG00000031822	6484.441322	-0.517617858	0.110746419	-4.673901551	2.96E-06	4.00E-05
ENSMUSG00000048878	13125.54794	-0.517541071	0.12806756	-4.041156655	5.32E-05	0.000529295
ENSMUSG00000023963	951.6759715	-0.51722103	0.13889967	-3.723702362	0.000196322	0.001649655
ENSMUSG00000029710	19917.08255	-0.517179585	0.107655737	-4.804013226	1.56E-06	2.25E-05
ENSMUSG00000034800	335.7051686	-0.516605405	0.166326525	-3.105971255	0.001896552	0.01126965
ENSMUSG00000031903	331.1360673	-0.51654271	0.169989602	-3.038672397	0.002376231	0.013566904
ENSMUSG00000024114	191.7146768	-0.516417644	0.211851973	-2.437634334	0.01478372	0.058935339
ENSMUSG00000035413	2975.451108	-0.516158185	0.117295093	-4.400509636	1.08E-05	0.000127498
ENSMUSG00000027296	1401.563418	-0.515280414	0.108175651	-4.76336783	1.90E-06	2.70E-05
ENSMUSG00000063328	158.8269151	-0.515142712	0.230853704	-2.231468253	0.025650128	0.090813536
ENSMUSG00000024731	1097.627562	-0.514289948	0.177915669	-2.890638859	0.003844596	0.019990288
ENSMUSG00000025366	3765.458634	-0.513694945	0.160725714	-3.196096831	0.001393004	0.008718881
ENSMUSG00000038503	1559.987467	-0.513505327	0.12687191	-4.047431209	5.18E-05	0.000517387



ENSMUSG00000071419	166.4527322	-0.513288826	0.228646476	-2.244901538	0.024774454	0.088427513
ENSMUSG00000026655	4539.883535	-0.512071458	0.135351368	-3.783275086	0.000154778	0.001335284
ENSMUSG00000073485	617.1386399	-0.511852392	0.201501507	-2.54019138	0.011079183	0.046999591
ENSMUSG00000061894	783.7505867	-0.51163671	0.139304924	-3.67278267	0.000239924	0.00196134
ENSMUSG00000089876	992.0263515	-0.511150681	0.141340516	-3.616448386	0.000298673	0.002381374
ENSMUSG00000094651	306.1639241	-0.510932024	0.253322203	-2.016925556	0.043703283	0.136774558
ENSMUSG00000000303	61213.64831	-0.510894187	0.101672042	-5.024923049	5.04E-07	8.08E-06
ENSMUSG00000027654	2011.678093	-0.510857658	0.107167094	-4.766926489	1.87E-06	2.66E-05
ENSMUSG00000024785	3188.527927	-0.510524805	0.107195041	-4.762578567	1.91E-06	2.71E-05
ENSMUSG00000100625	365.74759	-0.508837774	0.195314449	-2.605223406	0.009181437	0.04060187
ENSMUSG00000047388	2332.452587	-0.508540561	0.131208613	-3.875816901	0.000106268	0.00096803
ENSMUSG00000023043	33815.8073	-0.508295228	0.128362243	-3.959850013	7.50E-05	0.000715806
ENSMUSG00000031832	1267.243708	-0.508104442	0.132427405	-3.836852674	0.000124621	0.001110338
ENSMUSG00000032261	2931.343643	-0.507941787	0.131293378	-3.868754046	0.000109393	0.000989684
ENSMUSG00000037172	3212.518914	-0.507842583	0.161452632	-3.145458673	0.001658266	0.010090312
ENSMUSG00000059970	1282.973199	-0.507739289	0.191499569	-2.651386066	0.008016215	0.036401877
ENSMUSG00000045045	1428.280342	-0.50762804	0.131772332	-3.852311261	0.000117008	0.001049215
ENSMUSG00000014873	2070.839383	-0.507247266	0.114498476	-4.430166081	9.42E-06	0.000112715
ENSMUSG00000031803	4333.649066	-0.506308309	0.09865976	-5.131862383	2.87E-07	4.88E-06
ENSMUSG00000042694	820.2979367	-0.506243378	0.122930024	-4.11814266	3.82E-05	0.000393423
ENSMUSG00000028988	877.8473573	-0.505702474	0.133752806	-3.780873766	0.000156279	0.001346668
ENSMUSG00000034118	114.7140277	-0.505700339	0.238922368	-2.11658851	0.034294786	0.113709192
ENSMUSG00000036339	1657.962528	-0.505456773	0.126877127	-3.983828959	6.78E-05	0.000656956
ENSMUSG00000031934	1543.638119	-0.505296922	0.121309699	-4.165346443	3.11E-05	0.00032718
ENSMUSG00000021866	4840.934866	-0.504668209	0.139709292	-3.612273765	0.000303524	0.00241315
ENSMUSG00000030662	14743.97048	-0.504546092	0.143660453	-3.512073664	0.000444625	0.003352122
ENSMUSG00000019518	3308.388469	-0.504540173	0.131917932	-3.82465194	0.000130957	0.001158917
ENSMUSG00000029163	208.0643456	-0.504431935	0.205854279	-2.450432109	0.014268487	0.057374959
ENSMUSG00000035064	3388.82435	-0.504213631	0.119768512	-4.209901439	2.55E-05	0.000274446

ENSMUSG00000021611	997.1582404	-0.504090879	0.160658345	-3.137657616	0.001703037	0.010311047
ENSMUSG00000078716	219.5402643	-0.503026533	0.256137507	-1.963892513	0.049542558	0.150130215
ENSMUSG00000025372	1816.999575	-0.502863071	0.167500442	-3.00215967	0.002680715	0.015024537
ENSMUSG00000039715	781.8949673	-0.501588589	0.139800277	-3.587894091	0.000333336	0.002614933
ENSMUSG00000033170	5806.992906	-0.501356581	0.104665674	-4.790076449	1.67E-06	2.40E-05
ENSMUSG00000031221	4057.983428	-0.500887901	0.128343763	-3.90270543	9.51E-05	0.000879133
ENSMUSG00000054400	206.6126905	-0.500429029	0.20961332	-2.387391356	0.016968417	0.065457996
ENSMUSG00000009112	2678.866014	-0.500427961	0.132333252	-3.781573807	0.00015584	0.001343405
ENSMUSG00000025558	5800.903609	-0.50011985	0.139181481	-3.593293054	0.000326525	0.002569454
ENSMUSG00000042700	17933.36649	-0.499630368	0.113048474	-4.419611791	9.89E-06	0.000117919
ENSMUSG00000090394	899.5329164	-0.498613544	0.136521564	-3.652269496	0.000259933	0.002099516
ENSMUSG00000027845	551.6419914	-0.497855755	0.164087829	-3.034080954	0.002412697	0.013732912
ENSMUSG00000018821	1164.054844	-0.497825042	0.141654288	-3.514366198	0.000440805	0.003334363
ENSMUSG00000031533	2025.606786	-0.497244269	0.139593489	-3.562087827	0.000367917	0.002851902
ENSMUSG00000057342	4162.120128	-0.497080287	0.154362655	-3.220210797	0.001280964	0.008134046
ENSMUSG00000026958	780.5701812	-0.496690904	0.131079989	-3.789219901	0.000151121	0.001309305
ENSMUSG00000070639	3463.70719	-0.496065912	0.14068811	-3.525997421	0.000421891	0.003206746
ENSMUSG00000008435	1952.980661	-0.495620528	0.116464828	-4.255538242	2.09E-05	0.000229669
ENSMUSG00000110276	160.4021582	-0.494425388	0.23632399	-2.092150648	0.036425042	0.119265138
ENSMUSG00000040631	1426.247391	-0.494236673	0.123387073	-4.005579041	6.19E-05	0.000605383
ENSMUSG00000032741	1898.228886	-0.494064206	0.113966413	-4.335173777	1.46E-05	0.000167944
ENSMUSG00000066315	254.931207	-0.493595311	0.199630723	-2.472541819	0.013415602	0.054495689
ENSMUSG00000052557	3442.096988	-0.493088404	0.121422023	-4.060947037	4.89E-05	0.000492295
ENSMUSG00000042210	2074.094769	-0.492897268	0.110412626	-4.464138632	8.04E-06	9.79E-05
ENSMUSG00000078866	445.0511418	-0.49286772	0.164511192	-2.99595252	0.00273589	0.015280012
ENSMUSG00000042429	748.7281647	-0.492824281	0.196667568	-2.505874686	0.01221489	0.050628296
ENSMUSG00000034807	4374.053526	-0.492761172	0.101248937	-4.866828114	1.13E-06	1.69E-05
ENSMUSG00000030605	4499.124612	-0.492255649	0.112706754	-4.367578964	1.26E-05	0.000146456
ENSMUSG00000030560	1613.345548	-0.491720693	0.113330378	-4.338825133	1.43E-05	0.000165349

ENSMUSG00000020706	7994.976505	-0.49157571	0.127438733	-3.857349309	0.000114623	0.001030732
ENSMUSG00000042328	2551.01308	-0.491168174	0.148103691	-3.316380373	0.000911916	0.006171971
ENSMUSG00000044566	227.8323898	-0.490362915	0.191683504	-2.558190481	0.010521844	0.045133226
ENSMUSG00000021277	2782.196125	-0.490318781	0.111649231	-4.391600143	1.13E-05	0.000132347
ENSMUSG00000037572	3252.091289	-0.490303085	0.111039431	-4.415576362	1.01E-05	0.000119884
ENSMUSG00000000149	1659.212513	-0.489753877	0.121678569	-4.024980563	5.70E-05	0.000561516
ENSMUSG00000005699	193.1057253	-0.489588303	0.226636023	-2.160240442	0.030754061	0.104327094
ENSMUSG00000040010	4045.218718	-0.488708888	0.158450438	-3.08430127	0.002040309	0.011958193
ENSMUSG00000020605	1172.439364	-0.488561398	0.111544212	-4.379979824	1.19E-05	0.000138946
ENSMUSG00000033880	11497.24064	-0.488424148	0.097242982	-5.022718715	5.09E-07	8.16E-06
ENSMUSG00000046691	6673.217078	-0.486802828	0.147921307	-3.290958133	0.000998468	0.006634931
ENSMUSG00000022420	609.2463238	-0.486599502	0.169258474	-2.874890038	0.004041682	0.020859421
ENSMUSG00000048644	131.887826	-0.486352794	0.243878202	-1.994244629	0.046125327	0.142510518
ENSMUSG00000019734	14943.18941	-0.486171375	0.095262597	-5.103486451	3.33E-07	5.58E-06
ENSMUSG00000043572	616.4498355	-0.48613048	0.13433076	-3.618906643	0.00029585	0.002362248
ENSMUSG00000041852	12934.22358	-0.485640725	0.149940391	-3.238891939	0.00119995	0.007711459
ENSMUSG00000008393	4249.635009	-0.485564303	0.106742282	-4.548940647	5.39E-06	6.87E-05
ENSMUSG00000058655	38243.74762	-0.485469343	0.116857875	-4.154357119	3.26E-05	0.000341373
ENSMUSG00000084128	4913.025082	-0.484987275	0.117996874	-4.110170552	3.95E-05	0.000405569
ENSMUSG00000025203	5439.135643	-0.484610086	0.211857552	-2.287433612	0.022170526	0.080901523
ENSMUSG00000074102	8937.743742	-0.483677164	0.12057073	-4.011563712	6.03E-05	0.000591015
ENSMUSG00000068115	1056.693854	-0.482097219	0.142733573	-3.377602124	0.000731208	0.005099021
ENSMUSG00000039182	814.2422145	-0.481917668	0.140578577	-3.428101769	0.000607818	0.004368334
ENSMUSG00000044641	2496.253614	-0.481676701	0.136124753	-3.538494575	0.000402416	0.003078652
ENSMUSG00000029033	709.169651	-0.481331306	0.150877054	-3.190222052	0.001421635	0.008875668
ENSMUSG00000114210	154.4599881	-0.481260562	0.215230732	-2.236021583	0.025350357	0.089993365
ENSMUSG00000086992	157.4701067	-0.480898137	0.242976202	-1.979198511	0.04779366	0.146246765
ENSMUSG00000115219	222.5378716	-0.480815623	0.199665455	-2.408106209	0.016035515	0.062687957
ENSMUSG00000025076	4755.811746	-0.480421474	0.108627179	-4.422663617	9.75E-06	0.00011639

ENSMUSG00000026749	5360.077212	-0.480231935	0.12312405	-3.900390983	9.60E-05	0.000885745
ENSMUSG00000037216	344.4935216	-0.47990054	0.198463987	-2.418073663	0.015602918	0.061397061
ENSMUSG00000112489	297.825837	-0.478804839	0.196436774	-2.437450123	0.014791255	0.058935339
ENSMUSG00000039481	1212.73586	-0.478268638	0.129991316	-3.67923529	0.000233934	0.001919415
ENSMUSG00000041849	635.1707411	-0.478266027	0.144616404	-3.307135386	0.000942553	0.006328735
ENSMUSG00000020741	41955.58557	-0.47773845	0.092729917	-5.1519344	2.58E-07	4.43E-06
ENSMUSG00000015474	645.4082695	-0.477543524	0.149713151	-3.189723294	0.001424091	0.008883538
ENSMUSG00000049922	3831.188667	-0.477492158	0.112914867	-4.228780235	2.35E-05	0.000254982
ENSMUSG00000091549	489.6955175	-0.476818155	0.207856987	-2.29397222	0.021792094	0.079818493
ENSMUSG00000087230	323.7216834	-0.476654948	0.211558508	-2.253064428	0.024255087	0.086865697
ENSMUSG00000029499	300.1650186	-0.476358601	0.175807331	-2.709549127	0.006737473	0.03165207
ENSMUSG00000097333	433.8705467	-0.476112446	0.153765694	-3.096350261	0.001959188	0.01158935
ENSMUSG00000050730	2501.834153	-0.47566697	0.138069994	-3.445114717	0.000570817	0.00413977
ENSMUSG00000029027	850.3349606	-0.475597098	0.123380809	-3.854708853	0.000115867	0.001040241
ENSMUSG00000024187	5404.155293	-0.474302482	0.114156887	-4.154830212	3.26E-05	0.000340828
ENSMUSG00000001138	2185.817334	-0.474129433	0.10621114	-4.464027343	8.04E-06	9.79E-05
ENSMUSG00000055093	192.0323716	-0.473869605	0.209656763	-2.260216168	0.023807838	0.085676713
ENSMUSG00000034930	3713.005344	-0.473852957	0.12089047	-3.919688256	8.87E-05	0.000825934
ENSMUSG00000106205	1242.439431	-0.473501912	0.210141638	-2.253251263	0.024243311	0.086851418
ENSMUSG00000019710	4219.739304	-0.472851814	0.105720587	-4.472655958	7.73E-06	9.48E-05
ENSMUSG00000030726	4366.224118	-0.472649922	0.136974635	-3.450638313	0.000559263	0.004069205
ENSMUSG00000049521	4091.998471	-0.472417543	0.106537502	-4.43428401	9.24E-06	0.00011076
ENSMUSG00000039253	775.5421972	-0.472294274	0.129857337	-3.637024167	0.000275806	0.002214891
ENSMUSG00000005198	23513.45951	-0.472291169	0.104501589	-4.519464001	6.20E-06	7.79E-05
ENSMUSG00000020911	39665.8851	-0.471915809	0.145479414	-3.243866576	0.00117919	0.007608233
ENSMUSG00000026172	1119.502643	-0.471831362	0.133200439	-3.542265813	0.000396705	0.003039138
ENSMUSG00000057551	2254.970715	-0.470859217	0.127768352	-3.685257032	0.000228472	0.001882214
ENSMUSG00000022283	89979.96072	-0.470112155	0.14293735	-3.288938507	0.00100566	0.006674768
ENSMUSG00000006519	3013.346081	-0.469430454	0.168230025	-2.790408269	0.005264161	0.025886674

ENSMUSG00000044465	4115.256789	-0.468660667	0.111040761	-4.220618295	2.44E-05	0.000262787
ENSMUSG00000061898	880.0754217	-0.468617003	0.140968769	-3.324261148	0.000886531	0.006025765
ENSMUSG00000032561	3542.971368	-0.468353144	0.106254326	-4.407850126	1.04E-05	0.000123646
ENSMUSG00000021340	3744.29377	-0.468289779	0.139331288	-3.360980771	0.000776662	0.005357946
ENSMUSG00000032092	4293.228859	-0.468081376	0.13045753	-3.587998149	0.000333227	0.002614809
ENSMUSG00000109420	391.3074006	-0.468046774	0.222500223	-2.103578901	0.035415196	0.116488833
ENSMUSG00000034854	624.8726277	-0.467626429	0.147094458	-3.179089384	0.001477385	0.009158675
ENSMUSG00000021786	696.4500224	-0.467341196	0.13898849	-3.362445318	0.000772554	0.005335625
ENSMUSG00000042647	509.266219	-0.467224294	0.198821528	-2.349968327	0.018775009	0.07091827
ENSMUSG00000048012	375.7396206	-0.467149198	0.18148688	-2.574010847	0.010052712	0.043555509
ENSMUSG00000056999	8283.094204	-0.467128688	0.165466812	-2.823095956	0.004756233	0.023835677
ENSMUSG00000025209	3587.604413	-0.466253199	0.112810913	-4.133050481	3.58E-05	0.000371317
ENSMUSG00000031012	5585.822385	-0.466157053	0.111537519	-4.179374423	2.92E-05	0.000309979
ENSMUSG00000025037	3643.487024	-0.466021439	0.180142815	-2.586955467	0.009682811	0.042323865
ENSMUSG00000071644	38921.25129	-0.465457976	0.121762633	-3.82266681	0.000132016	0.001165241
ENSMUSG00000085442	235.0888698	-0.464996607	0.184414291	-2.521478155	0.011686293	0.048914419
ENSMUSG00000054517	1627.989806	-0.464518547	0.163687176	-2.837843246	0.004541948	0.022916287
ENSMUSG00000020747	9018.822466	-0.464329322	0.107970144	-4.300534414	1.70E-05	0.000193177
ENSMUSG00000023944	171444.4181	-0.464267671	0.103944463	-4.466497384	7.95E-06	9.71E-05
ENSMUSG00000041859	9226.017513	-0.464102631	0.139954531	-3.316095792	0.000912845	0.006176385
ENSMUSG00000051344	729.413635	-0.463346788	0.153160346	-3.025239878	0.00248436	0.014086884
ENSMUSG00000022443	128911.2617	-0.462966748	0.128330977	-3.60759933	0.000309043	0.002449173
ENSMUSG00000028042	5314.18185	-0.462875951	0.110219839	-4.19957018	2.67E-05	0.000285622
ENSMUSG00000026640	5634.057971	-0.46252254	0.095451591	-4.845624215	1.26E-06	1.86E-05
ENSMUSG00000022031	3270.410061	-0.462159076	0.115872372	-3.988518285	6.65E-05	0.00064579
ENSMUSG00000018377	3066.69563	-0.460891152	0.109353716	-4.214682108	2.50E-05	0.000269216
ENSMUSG00000040596	2179.293865	-0.460671679	0.164020793	-2.808617555	0.004975471	0.024745314
ENSMUSG00000073478	282.8785665	-0.460300883	0.207972704	-2.213275468	0.02687866	0.094322737
ENSMUSG00000041594	1871.627724	-0.459656651	0.10571202	-4.348196659	1.37E-05	0.000158769

ENSMUSG00000113184	189.6553812	-0.459542421	0.216348188	-2.124087216	0.033662851	0.112030331
ENSMUSG00000031004	65519.93082	-0.459538275	0.179895391	-2.554474976	0.010634807	0.04551613
ENSMUSG00000039157	6515.305279	-0.459344083	0.111849904	-4.106790139	4.01E-05	0.000410981
ENSMUSG00000086682	179.8641876	-0.458896202	0.20611285	-2.226431794	0.025985273	0.091721679
ENSMUSG00000071379	2215.237886	-0.458779582	0.12251394	-3.744713319	0.0001806	0.001531391
ENSMUSG00000025484	840.1704945	-0.45841447	0.224594739	-2.041073942	0.041243478	0.131119056
ENSMUSG00000026095	246.9241055	-0.458341995	0.201909711	-2.270034431	0.023205494	0.083860918
ENSMUSG00000032518	75670.43507	-0.45828036	0.130819124	-3.503160283	0.000459773	0.003449997
ENSMUSG00000030499	529.6088672	-0.458268602	0.186432	-2.458100557	0.013967406	0.056398175
ENSMUSG00000011884	2248.13444	-0.45654853	0.113035907	-4.038969034	5.37E-05	0.000533066
ENSMUSG00000038080	2100.550797	-0.456346783	0.127969098	-3.566070162	0.000362374	0.002815788
ENSMUSG00000027424	1350.175705	-0.456343276	0.163224378	-2.795803437	0.005177088	0.025548624
ENSMUSG00000036206	2442.066527	-0.456146291	0.123525065	-3.692742769	0.000221848	0.001836467
ENSMUSG00000021023	1860.965114	-0.456086004	0.12352924	-3.692129927	0.000222384	0.001838169
ENSMUSG00000026627	699.2760619	-0.456057369	0.131775684	-3.46086134	0.00053845	0.003937041
ENSMUSG00000106928	204.4761909	-0.455311767	0.188615407	-2.413969116	0.0157798	0.061944256
ENSMUSG00000009291	4373.953196	-0.455182324	0.120226746	-3.786032143	0.000153072	0.001322593
ENSMUSG00000025060	12284.22198	-0.454532041	0.112109907	-4.054343228	5.03E-05	0.000504813
ENSMUSG00000005370	6108.739041	-0.454476195	0.139226403	-3.264296039	0.001097364	0.007191397
ENSMUSG00000052911	1093.946371	-0.45437244	0.170627711	-2.662946344	0.007745976	0.035456285
ENSMUSG00000036817	4969.119437	-0.454233284	0.106087432	-4.281688011	1.85E-05	0.000207443
ENSMUSG00000046562	2519.371354	-0.454063786	0.126643251	-3.585376901	0.000336592	0.002637503
ENSMUSG00000040728	12209.16145	-0.453998369	0.090830147	-4.998322503	5.78E-07	9.12E-06
ENSMUSG00000030602	4726.773767	-0.45366834	0.108128669	-4.195634195	2.72E-05	0.000290197
ENSMUSG00000024151	4638.597558	-0.45268141	0.123470855	-3.66630173	0.000246084	0.002002048
ENSMUSG00000029388	2861.609379	-0.45249027	0.120492301	-3.755345929	0.000173102	0.00147567
ENSMUSG00000059842	494.7371951	-0.451988228	0.150910649	-2.995071792	0.002743803	0.015311955
ENSMUSG00000039137	4229.641131	-0.451604332	0.102352977	-4.412224705	1.02E-05	0.000121367
ENSMUSG00000042155	666.5110435	-0.450901337	0.194946233	-2.312952296	0.020725262	0.076687252

ENSMUSG00000024026	6728.888422	-0.450691418	0.140973458	-3.196994837	0.001388674	0.008698375
ENSMUSG00000020190	13794.33965	-0.450504115	0.129265224	-3.485114556	0.000491926	0.003658036
ENSMUSG00000023345	1422.003866	-0.450428819	0.1111030736	-4.056793972	4.98E-05	0.000499998
ENSMUSG00000067873	4308.761802	-0.450396917	0.124844262	-3.607670145	0.000308959	0.002449173
ENSMUSG00000019969	4510.519387	-0.450195013	0.095256156	-4.726151401	2.29E-06	3.18E-05
ENSMUSG00000054715	720.5803258	-0.45010909	0.135020893	-3.333625492	0.00085722	0.005855416
ENSMUSG00000035011	11857.20206	-0.450101212	0.095155999	-4.730140183	2.24E-06	3.12E-05
ENSMUSG00000039981	666.2944735	-0.450052211	0.129711139	-3.469649685	0.000521138	0.00383814
ENSMUSG00000102864	284.2575028	-0.449838596	0.205769506	-2.186128572	0.0288062	0.099213447
ENSMUSG00000029863	3432.630847	-0.449149758	0.132234071	-3.396626559	0.00068222	0.004814617
ENSMUSG00000031931	1191.293877	-0.448682118	0.156801825	-2.861459788	0.00421695	0.021599036
ENSMUSG00000114165	295.5091527	-0.44839791	0.175394201	-2.556515029	0.01057265	0.045312637
ENSMUSG00000030871	2127.138487	-0.448310981	0.109197357	-4.105511269	4.03E-05	0.000412891
ENSMUSG00000042097	983.8570654	-0.448078987	0.146347348	-3.061749961	0.002200472	0.012739544
ENSMUSG00000108350	457.1066558	-0.446984737	0.187971539	-2.377938385	0.017409735	0.066836718
ENSMUSG00000037419	1661.320799	-0.446941878	0.162033939	-2.75832261	0.005809883	0.028038563
ENSMUSG00000029860	3900.33546	-0.446651744	0.139715892	-3.19685712	0.001389337	0.008698375
ENSMUSG00000035790	629.9926067	-0.445997498	0.125910915	-3.542167077	0.000396854	0.003039231
ENSMUSG00000040121	256.3432565	-0.445780483	0.19645085	-2.269170555	0.023257956	0.084009666
ENSMUSG00000050335	526.7031343	-0.445500094	0.194749622	-2.287553057	0.022163562	0.080895189
ENSMUSG00000027324	1028.164521	-0.44536697	0.140447419	-3.171058415	0.001518846	0.009374975
ENSMUSG00000022802	942.9847447	-0.445266028	0.149386506	-2.980630848	0.002876553	0.015882647
ENSMUSG00000048234	5292.047493	-0.445085712	0.106507001	-4.178933836	2.93E-05	0.000310285
ENSMUSG00000058392	4041.925603	-0.444998394	0.178027108	-2.499610302	0.012432999	0.051282957
ENSMUSG00000021376	724.8587338	-0.444588986	0.124957279	-3.557927872	0.000373792	0.002890128
ENSMUSG00000035126	256.6319114	-0.444107637	0.204834603	-2.168127997	0.030148949	0.10268047
ENSMUSG00000075705	867.9083356	-0.44406248	0.170576224	-2.60330819	0.009232892	0.040724429
ENSMUSG00000032481	17368.55572	-0.444029574	0.136910146	-3.243218904	0.001181874	0.007622026
ENSMUSG00000064254	483.5103095	-0.443632284	0.189523223	-2.340780609	0.019243471	0.072320299

ENSMUSG00000031488	13750.5008	-0.443316533	0.100944784	-4.391673477	1.12E-05	0.000132347
ENSMUSG00000097493	729.1185487	-0.44294104	0.160842902	-2.753873706	0.005889449	0.028296931
ENSMUSG00000047649	1441.790652	-0.442561462	0.140694537	-3.145548303	0.001657758	0.010089974
ENSMUSG00000028977	8918.507731	-0.442537408	0.130876772	-3.381328882	0.000721361	0.005039813
ENSMUSG00000039164	704.3729421	-0.442110776	0.128869809	-3.43067767	0.000602076	0.004332651
ENSMUSG00000029250	5629.168062	-0.441751518	0.133463803	-3.309897571	0.000933301	0.006282387
ENSMUSG00000050910	275.0549376	-0.441691052	0.163274005	-2.705213561	0.006826049	0.031987333
ENSMUSG00000022390	5662.706179	-0.441410564	0.136566913	-3.232192589	0.001228442	0.007858718
ENSMUSG00000047766	720.1538472	-0.441241777	0.152271768	-2.897725446	0.003758795	0.019626524
ENSMUSG00000022048	1528.643865	-0.441034037	0.12799532	-3.445704392	0.000569573	0.004132091
ENSMUSG00000058761	2018.505265	-0.440961319	0.136777816	-3.223924253	0.001264468	0.00805453
ENSMUSG00000035666	3020.811485	-0.440750347	0.174007466	-2.532939286	0.011311054	0.047782498
ENSMUSG00000028334	4385.727095	-0.440054189	0.102903136	-4.276392402	1.90E-05	0.000211906
ENSMUSG00000055305	406.9516321	-0.439891962	0.196711123	-2.236233284	0.025336494	0.089972795
ENSMUSG00000004897	14630.70291	-0.439718481	0.114181464	-3.85104959	0.000117613	0.001053366
ENSMUSG00000042724	2301.586842	-0.4396271	0.108913611	-4.036475285	5.43E-05	0.000538043
ENSMUSG00000033096	1374.974364	-0.43880667	0.120620753	-3.637903598	0.000274866	0.002210527
ENSMUSG00000031299	14648.77545	-0.438795748	0.122418245	-3.584398296	0.000337856	0.002645552
ENSMUSG00000044968	1508.548658	-0.438794371	0.121829277	-3.601715297	0.000316124	0.002495974
ENSMUSG00000033721	888.5690733	-0.438568273	0.158781465	-2.76208734	0.005743311	0.027765355
ENSMUSG00000022565	23745.27483	-0.438236856	0.113185838	-3.871834699	0.000108019	0.000981237
ENSMUSG00000056394	8123.952056	-0.438099719	0.12384008	-3.537624632	0.000403744	0.003086694
ENSMUSG00000030319	627.646339	-0.437974335	0.147890779	-2.961471562	0.003061728	0.016731093
ENSMUSG00000036052	428.7721448	-0.43754353	0.139279345	-3.141481813	0.001680952	0.010203299
ENSMUSG00000017764	738.9285346	-0.437281144	0.126818133	-3.448096354	0.000564553	0.004102342
ENSMUSG00000021245	1053.225085	-0.437216868	0.137255044	-3.185433877	0.001445371	0.008989284
ENSMUSG00000063838	2898.045537	-0.437111821	0.181581494	-2.407248735	0.016073218	0.062819636
ENSMUSG00000015656	163981.878	-0.436623008	0.158512192	-2.754507421	0.005878056	0.028263588
ENSMUSG00000027253	15493.00106	-0.43636824	0.127351812	-3.426478448	0.000611462	0.004393112



ENSMUSG00000040729	168.8199738	-0.436322444	0.220041156	-1.982912889	0.047377161	0.145371225
ENSMUSG00000026192	8610.650726	-0.436227478	0.118143357	-3.692357241	0.000222185	0.001838142
ENSMUSG00000003348	674.4479925	-0.435833176	0.148604178	-2.932846054	0.003358704	0.017992422
ENSMUSG00000056493	5917.45367	-0.43580501	0.110116668	-3.957666166	7.57E-05	0.00072131
ENSMUSG00000039328	502.2621548	-0.435643928	0.195568429	-2.227577988	0.02590867	0.091537961
ENSMUSG00000020823	4074.445465	-0.434905928	0.133454515	-3.258832628	0.001118716	0.007297015
ENSMUSG00000037907	2347.816844	-0.434588461	0.116375589	-3.734360998	0.000188192	0.001587922
ENSMUSG00000068747	15013.04625	-0.434514411	0.142153994	-3.056645814	0.002238286	0.012924913
ENSMUSG00000041757	25068.38026	-0.434249734	0.092671495	-4.68590405	2.79E-06	3.81E-05
ENSMUSG00000017631	8969.036243	-0.433662277	0.109257556	-3.969174246	7.21E-05	0.000692677
ENSMUSG00000069682	1538.786334	-0.433118231	0.109644542	-3.950203286	7.81E-05	0.000740344
ENSMUSG00000048251	5214.202095	-0.432737442	0.121523115	-3.560947564	0.000369519	0.002862631
ENSMUSG00000107476	421.7789929	-0.432306044	0.158288594	-2.731125686	0.00631184	0.029968136
ENSMUSG00000042606	3099.985913	-0.432205286	0.136431246	-3.167934748	0.00153526	0.009457963
ENSMUSG00000022120	1003.880182	-0.43206	0.135549001	-3.187481999	0.001435174	0.00893518
ENSMUSG00000038175	517.652503	-0.431926891	0.202354306	-2.134508032	0.032801217	0.11008276
ENSMUSG00000084771	274.2787724	-0.430785696	0.170332525	-2.529086534	0.011435983	0.048211767
ENSMUSG00000074466	332.0632988	-0.430780069	0.209731863	-2.053956243	0.039979927	0.128010388
ENSMUSG00000034863	1661.568578	-0.430615532	0.12623327	-3.411268138	0.000646615	0.004605607
ENSMUSG00000034330	3020.005493	-0.4293776	0.166448818	-2.57963742	0.00989041	0.042996397
ENSMUSG00000040606	1751.178709	-0.428833782	0.148783997	-2.882257439	0.00394837	0.020434579
ENSMUSG00000052926	3092.569568	-0.427933482	0.131162497	-3.262620735	0.001103871	0.007223426
ENSMUSG00000044768	1594.515598	-0.427552144	0.106463739	-4.015941477	5.92E-05	0.000580659
ENSMUSG00000095649	110863.6434	-0.427470128	0.192085879	-2.225411516	0.026053625	0.091933844
ENSMUSG00000052751	1119.693173	-0.427369404	0.142707663	-2.994719373	0.002746974	0.015315069
ENSMUSG00000026074	8879.917874	-0.426851555	0.109962057	-3.881807673	0.000103683	0.000945311
ENSMUSG00000071532	192.7216478	-0.425262008	0.199844591	-2.127963563	0.033340105	0.111255077
ENSMUSG00000035847	942.8318051	-0.424667612	0.133590419	-3.178877761	0.001478464	0.009158675
ENSMUSG00000029557	533.4679949	-0.424389037	0.147353204	-2.880080153	0.003975741	0.020547624

ENSMUSG00000025408	2473.085869	-0.424053815	0.194199911	-2.183594273	0.028992075	0.099684283
ENSMUSG00000021947	4101.427342	-0.424029848	0.125774493	-3.371350091	0.000748007	0.005201446
ENSMUSG00000038034	2697.644973	-0.42392914	0.10322168	-4.10697771	4.01E-05	0.000410836
ENSMUSG00000039725	803.0660404	-0.423690775	0.135160919	-3.134713628	0.00172022	0.010404832
ENSMUSG00000015176	10142.34222	-0.423240971	0.131607007	-3.215945561	0.001300155	0.008230132
ENSMUSG00000024667	203.2508149	-0.422975478	0.194348924	-2.176371591	0.029527486	0.101088804
ENSMUSG00000078700	1623.735934	-0.422769815	0.119340844	-3.542540849	0.000396292	0.003037013
ENSMUSG00000026930	418.6008656	-0.42245545	0.176641843	-2.391593314	0.016775419	0.064871779
ENSMUSG00000095567	13252.23071	-0.42178417	0.130559389	-3.230592407	0.00123534	0.007890436
ENSMUSG00000010342	377.0139785	-0.421259716	0.166444667	-2.530929482	0.011376072	0.048003363
ENSMUSG00000041936	10125.01931	-0.421252412	0.118338945	-3.559710722	0.000371264	0.002873536
ENSMUSG00000025912	626.458287	-0.421185985	0.158971646	-2.649440927	0.008062507	0.036567411
ENSMUSG00000045639	3373.357292	-0.421138189	0.13638385	-3.087888995	0.002015838	0.011861528
ENSMUSG00000028555	661.2759341	-0.420649247	0.177145845	-2.374592797	0.01756832	0.067291816
ENSMUSG00000018398	2011.41216	-0.420281324	0.120209039	-3.496253922	0.000471839	0.003527486
ENSMUSG00000022679	250.8301779	-0.4196935	0.170785022	-2.457437394	0.01399322	0.056481954
ENSMUSG00000052632	3019.543309	-0.419690702	0.121522689	-3.453599542	0.000553158	0.004030049
ENSMUSG00000020412	7729.282816	-0.419659832	0.106478251	-3.941272785	8.11E-05	0.000765567
ENSMUSG00000037552	2853.661156	-0.418592848	0.183349093	-2.283037457	0.022428162	0.081687154
ENSMUSG00000034949	543.8768177	-0.418561844	0.176447077	-2.372166492	0.01768412	0.067622353
ENSMUSG00000024998	7485.101705	-0.418345886	0.164644191	-2.540908867	0.011056473	0.046921106
ENSMUSG00000034917	23427.18204	-0.418315543	0.097279849	-4.300125332	1.71E-05	0.000193436
ENSMUSG00000057101	2016.443453	-0.418242036	0.112916282	-3.704001117	0.000212225	0.001765325
ENSMUSG00000006651	394.6612215	-0.41752433	0.200843514	-2.078853941	0.037630777	0.122048279
ENSMUSG00000096188	7129.821899	-0.417466284	0.152511767	-2.73727261	0.006195093	0.029489173
ENSMUSG00000027395	4987.174811	-0.417263947	0.13886363	-3.004846892	0.002657146	0.014911174
ENSMUSG00000028832	13098.09437	-0.417252686	0.091483397	-4.560966234	5.09E-06	6.58E-05
ENSMUSG00000038593	730.4115969	-0.417232747	0.125159439	-3.333609907	0.000857268	0.005855416
ENSMUSG00000017499	2316.800029	-0.417232353	0.112576277	-3.706219132	0.000210376	0.00175256

ENSMUSG00000054309	5667.330779	-0.416811156	0.135413908	-3.07805279	0.00208358	0.012173413
ENSMUSG00000023830	8846.279476	-0.416589398	0.117596152	-3.542542756	0.000396289	0.003037013
ENSMUSG00000024049	256.0794431	-0.416141286	0.208315526	-1.99764892	0.045754736	0.141679583
ENSMUSG00000024082	958.7640879	-0.415936921	0.119996445	-3.466243695	0.000527785	0.00387813
ENSMUSG00000056671	794.0926179	-0.415809766	0.143953861	-2.88849332	0.003870923	0.020103736
ENSMUSG00000027508	1188.511451	-0.415683152	0.131105313	-3.170604926	0.001521219	0.009387023
ENSMUSG00000020737	9568.458766	-0.415666965	0.093350204	-4.452769747	8.48E-06	0.000102686
ENSMUSG00000044847	1045.953168	-0.41534871	0.165896622	-2.503659845	0.012291614	0.050846836
ENSMUSG00000000567	13937.74032	-0.415066274	0.104746542	-3.962577335	7.41E-05	0.000708444
ENSMUSG00000056124	3604.981145	-0.414073735	0.128179794	-3.230413489	0.001236113	0.007891943
ENSMUSG00000096935	269.6322445	-0.41374386	0.196243616	-2.108317551	0.035003531	0.115428261
ENSMUSG00000089809	777.7897722	-0.413267726	0.175629502	-2.353065529	0.018619353	0.070401862
ENSMUSG00000108912	210.4106682	-0.413111531	0.208865373	-1.977884244	0.047941767	0.146557379
ENSMUSG00000034248	2765.596588	-0.413103346	0.121138426	-3.410175939	0.00064921	0.004621139
ENSMUSG00000026502	1914.281947	-0.413010842	0.146661334	-2.81608541	0.004861274	0.02426937
ENSMUSG00000033871	4100.789621	-0.41295064	0.106177836	-3.889235791	0.00010056	0.000921741
ENSMUSG00000034442	755.5391406	-0.412586183	0.151987275	-2.714610043	0.006635385	0.031231685
ENSMUSG00000018509	5102.238015	-0.412339049	0.119092678	-3.462337542	0.000535505	0.003923635
ENSMUSG00000023991	16226.66449	-0.412122246	0.101578379	-4.057184719	4.97E-05	0.000499388
ENSMUSG00000052928	981.0390236	-0.412015841	0.142296172	-2.89548084	0.003785781	0.019734433
ENSMUSG00000039810	2236.217849	-0.41200358	0.142485645	-2.891544474	0.003833533	0.019946716
ENSMUSG00000024853	21607.41668	-0.411693469	0.104073175	-3.955807714	7.63E-05	0.000725391
ENSMUSG00000031988	2488.821651	-0.411287423	0.12365586	-3.326064947	0.000880814	0.005994212
ENSMUSG00000057530	6830.033848	-0.411149797	0.135369975	-3.037230362	0.002387629	0.013621519
ENSMUSG00000030861	1551.839332	-0.410993951	0.140262272	-2.930181757	0.003387638	0.018112614
ENSMUSG00000047409	1850.084733	-0.410832196	0.16045892	-2.560357481	0.010456454	0.044895915
ENSMUSG00000054252	3811.952085	-0.41010469	0.140110073	-2.927017891	0.003422292	0.018258501
ENSMUSG00000106106	2187.209703	-0.410055992	0.172538974	-2.376599223	0.017473061	0.067022143
ENSMUSG00000113294	214.0252976	-0.409918332	0.191157258	-2.144403706	0.032000554	0.107801261

ENSMUSG00000029106	9403.090321	-0.409865498	0.109048171	-3.758572886	0.000170885	0.00145956
ENSMUSG00000026873	446.6503043	-0.40985536	0.176676469	-2.31980728	0.020351305	0.075468877
ENSMUSG00000040209	6384.543176	-0.409313287	0.14239173	-2.874557991	0.004045935	0.020871707
ENSMUSG00000004069	5019.24176	-0.40913536	0.127451505	-3.210125771	0.001326769	0.008374831
ENSMUSG00000028463	3434.19919	-0.409117251	0.169669739	-2.411256441	0.015897666	0.062293319
ENSMUSG00000026605	10678.5799	-0.409028925	0.152497754	-2.682196394	0.007314051	0.033826347
ENSMUSG00000038055	738.2484019	-0.408867522	0.131274463	-3.114600606	0.001841941	0.010997894
ENSMUSG00000027651	3094.986883	-0.408779233	0.124782406	-3.27593645	0.001053123	0.006950484
ENSMUSG00000040658	582.5327547	-0.408651286	0.13388861	-3.052173648	0.002271906	0.013071667
ENSMUSG00000041598	4100.651928	-0.408476342	0.118392601	-3.450184713	0.000560203	0.004074719
ENSMUSG00000030980	4203.347803	-0.408432371	0.136085884	-3.001283889	0.002688438	0.015052688
ENSMUSG00000027378	518.7118402	-0.408366013	0.144899694	-2.818266915	0.004828365	0.024148324
ENSMUSG00000001783	8777.9946	-0.408263147	0.100208993	-4.074116856	4.62E-05	0.000468852
ENSMUSG00000053173	403.3508515	-0.408171372	0.146144506	-2.792929976	0.0052233	0.025736811
ENSMUSG000000103041	748.4571697	-0.408056232	0.139378975	-2.927674218	0.003415077	0.018233092
ENSMUSG00000037938	763.1066142	-0.407905019	0.146638945	-2.781696359	0.005407561	0.026463465
ENSMUSG00000021678	1570.79738	-0.407886896	0.133454493	-3.05637439	0.002240313	0.012929924
ENSMUSG00000074282	221.236248	-0.407638783	0.202601155	-2.01202596	0.044217201	0.137991574
ENSMUSG00000079215	4581.855256	-0.407433274	0.136877335	-2.976630672	0.002914349	0.016054339
ENSMUSG00000058672	1093.625508	-0.407235078	0.182363972	-2.233089545	0.02554304	0.090520984
ENSMUSG00000063952	8725.786615	-0.407134056	0.104466325	-3.897275558	9.73E-05	0.000896101
ENSMUSG00000004558	867.5486921	-0.407058734	0.201804501	-2.017094432	0.04368566	0.136753775
ENSMUSG00000029674	215.8086224	-0.406886097	0.202309762	-2.011203473	0.044303969	0.138223673
ENSMUSG00000058586	2591.472609	-0.406839327	0.11772544	-3.45583186	0.000548597	0.004003361
ENSMUSG00000027684	3387.322725	-0.406658157	0.106362006	-3.823340437	0.000131656	0.001162794
ENSMUSG00000040648	7861.47331	-0.40641807	0.116305579	-3.494398748	0.000475131	0.003548524
ENSMUSG00000005982	1600.30656	-0.406217592	0.142949844	-2.841679156	0.004487663	0.022683448
ENSMUSG00000067370	460.2153365	-0.406071096	0.179977333	-2.256234648	0.02405594	0.086360514
ENSMUSG00000009828	1519.81019	-0.406007096	0.112508488	-3.608679689	0.000307759	0.002441601

ENSMUSG00000041491	1129.827909	-0.405981995	0.12962932	-3.131868594	0.001736976	0.010474929
ENSMUSG00000022466	1409.881968	-0.405547389	0.119632764	-3.389935804	0.00069909	0.004911911
ENSMUSG00000057963	4146.362657	-0.405297052	0.124631164	-3.251971979	0.001146073	0.007442801
ENSMUSG00000026944	3200.567663	-0.404461668	0.137305227	-2.945712084	0.003222122	0.017386048
ENSMUSG00000021038	2685.505399	-0.404396869	0.109032818	-3.708946313	0.000208124	0.001737037
ENSMUSG00000038525	2966.258343	-0.404159804	0.132424514	-3.052001407	0.00227321	0.013075797
ENSMUSG00000008301	2176.141677	-0.404034726	0.129624642	-3.11695925	0.001827268	0.010933703
ENSMUSG00000021018	1455.400209	-0.404030643	0.114085899	-3.541459941	0.000397919	0.003046343
ENSMUSG00000026447	6188.119912	-0.403673206	0.09917437	-4.070338	4.69E-05	0.000475225
ENSMUSG00000041975	989.9647659	-0.403660171	0.140963985	-2.863569519	0.004188969	0.021480761
ENSMUSG00000035824	397.3340532	-0.403540018	0.165754147	-2.434569673	0.014909509	0.059332078
ENSMUSG00000019437	1123.619303	-0.403308773	0.156515742	-2.576793665	0.009972146	0.04328315
ENSMUSG00000043501	30684.01554	-0.402767334	0.128569021	-3.132693486	0.001732102	0.010456852
ENSMUSG00000044221	4799.35179	-0.401610862	0.121190783	-3.313872999	0.000920133	0.006216263
ENSMUSG000000103906	233.3439083	-0.401384118	0.180504164	-2.223683423	0.026169751	0.092256027
ENSMUSG00000033703	2431.350146	-0.401356623	0.113787996	-3.527231671	0.000419929	0.003192922
ENSMUSG00000034773	996.8013477	-0.401046078	0.141677086	-2.83070531	0.004644549	0.023344172
ENSMUSG00000033712	6135.521774	-0.400981878	0.100023695	-4.008868881	6.10E-05	0.000597274
ENSMUSG00000039096	616.9906679	-0.400617139	0.162188977	-2.470063917	0.013508891	0.054794795
ENSMUSG00000033075	4632.205037	-0.399834478	0.148043131	-2.700797228	0.00691735	0.032320096
ENSMUSG00000027111	27807.25454	-0.39968662	0.112425221	-3.55513307	0.000377788	0.00291625
ENSMUSG00000059689	828.1847122	-0.399672726	0.129175608	-3.094026277	0.0019746	0.011671231
ENSMUSG00000027536	7892.959346	-0.399169626	0.152774128	-2.61280907	0.008980145	0.03984262
ENSMUSG00000078954	1622.473244	-0.397792366	0.110178777	-3.610426416	0.000305694	0.002426943
ENSMUSG00000021287	839.6728241	-0.397725228	0.130060326	-3.058005764	0.002228153	0.012873067
ENSMUSG00000022177	2241.3207	-0.397103383	0.129270808	-3.071872054	0.002127209	0.012386132
ENSMUSG00000056919	2717.598683	-0.396709136	0.13501064	-2.938354603	0.003299594	0.017718334
ENSMUSG00000027490	1898.052299	-0.396661628	0.121851147	-3.255296631	0.00113274	0.007366939
ENSMUSG00000049672	1379.453463	-0.396262331	0.125863818	-3.148341883	0.001641995	0.010013163

ENSMUSG00000036875	4664.563231	-0.396035056	0.130287057	-3.039711425	0.002368049	0.013534051
ENSMUSG00000038766	7544.995186	-0.395895636	0.147843133	-2.677808751	0.007410552	0.034201721
ENSMUSG00000030323	756.866729	-0.395273517	0.167474811	-2.36019683	0.018265241	0.069368723
ENSMUSG00000027810	4497.500101	-0.395221343	0.11245229	-3.514569096	0.000440468	0.003333179
ENSMUSG00000005533	6930.35262	-0.394637038	0.104090624	-3.791283226	0.000149871	0.001299483
ENSMUSG00000018820	2734.103453	-0.394577166	0.109808811	-3.593310625	0.000326503	0.002569454
ENSMUSG00000049600	1129.018417	-0.394564528	0.136328285	-2.894223523	0.003800975	0.019795782
ENSMUSG00000042506	8742.142784	-0.394177238	0.119207017	-3.306661365	0.00094415	0.00633438
ENSMUSG00000020413	602.2460142	-0.393779363	0.17400117	-2.263084566	0.023630477	0.085130251
ENSMUSG00000031166	2876.638236	-0.393660356	0.124873587	-3.15247095	0.001618949	0.00990241
ENSMUSG00000028910	3326.05129	-0.393620647	0.096226202	-4.090576566	4.30E-05	0.000438381
ENSMUSG00000057219	426.6242717	-0.393582768	0.166157261	-2.368736494	0.017848965	0.068147538
ENSMUSG00000037503	5942.127903	-0.393507841	0.15828778	-2.486027919	0.012917783	0.052897444
ENSMUSG00000060036	98746.86306	-0.393329834	0.111955358	-3.513273872	0.000442621	0.003341534
ENSMUSG00000041293	1337.749219	-0.392923137	0.128962171	-3.046809264	0.002312844	0.013255908
ENSMUSG00000026270	951.3538277	-0.392819007	0.121284459	-3.238823922	0.001200236	0.007711459
ENSMUSG00000073016	814.7388853	-0.392414225	0.122617827	-3.200303203	0.001372831	0.008619229
ENSMUSG00000069844	1608.383457	-0.392371347	0.120937183	-3.244422741	0.001176889	0.007598671
ENSMUSG00000002346	1509.966846	-0.392363332	0.151646744	-2.587350848	0.009671706	0.042291904
ENSMUSG00000078247	477.4326156	-0.392333853	0.135431914	-2.896908421	0.003768597	0.019662836
ENSMUSG00000029007	988.4474659	-0.391929409	0.14536323	-2.696207353	0.007013399	0.032669055
ENSMUSG00000021782	5914.324517	-0.3916166	0.104611226	-3.743542765	0.000181444	0.001537377
ENSMUSG00000004099	23714.09589	-0.391257577	0.141686603	-2.761429593	0.005754892	0.027803261
ENSMUSG00000036568	2454.068703	-0.391020707	0.122646109	-3.188203109	0.001431599	0.008920396
ENSMUSG00000036606	17069.5952	-0.390984806	0.115601181	-3.382186956	0.000719112	0.005028822
ENSMUSG00000046862	672.8495347	-0.390081282	0.179166785	-2.177196415	0.029465916	0.100953317
ENSMUSG00000028318	1202.593551	-0.389982731	0.145410475	-2.681943863	0.007319574	0.033840784
ENSMUSG00000037465	4225.53711	-0.389877017	0.13104997	-2.975025608	0.002929641	0.016119892
ENSMUSG00000032604	10193.82244	-0.389612352	0.101021462	-3.856728501	0.000114915	0.001032519

ENSMUSG00000003660	16334.88472	-0.389367612	0.116642448	-3.338129625	0.000843444	0.005769829
ENSMUSG00000022962	7947.088192	-0.389265482	0.124761121	-3.12008644	0.00180798	0.01082991
ENSMUSG00000033767	5493.425939	-0.389265421	0.115822295	-3.360866066	0.000776985	0.005357946
ENSMUSG00000044626	786.0779226	-0.389019071	0.152752968	-2.54672022	0.010874058	0.046367564
ENSMUSG00000030337	2074.04598	-0.388825004	0.138434169	-2.808735774	0.004973645	0.024741747
ENSMUSG00000020808	330.6299788	-0.388494407	0.183540043	-2.116673832	0.034287539	0.113702069
ENSMUSG00000029009	1449.000756	-0.388461513	0.147089535	-2.640986746	0.008266495	0.037333154
ENSMUSG00000033126	395.1777678	-0.388454448	0.158580313	-2.449575682	0.014302465	0.057470139
ENSMUSG00000022701	1870.270366	-0.388378716	0.165163592	-2.351478985	0.018698946	0.070666868
ENSMUSG00000026819	5851.535685	-0.388333627	0.133533674	-2.908132577	0.003635942	0.019114836
ENSMUSG00000011257	11749.6347	-0.388007234	0.115234293	-3.367116037	0.000759587	0.005265637
ENSMUSG00000058301	14364.55846	-0.387655169	0.102184479	-3.793679555	0.000148431	0.001289005
ENSMUSG00000038170	7901.446399	-0.387519928	0.095277571	-4.067273399	4.76E-05	0.000480861
ENSMUSG00000038214	1914.643952	-0.387284516	0.170732329	-2.268372484	0.023306513	0.084171426
ENSMUSG00000020023	2248.395076	-0.387100228	0.125923209	-3.074097561	0.002111404	0.012313393
ENSMUSG00000039660	2720.324396	-0.387070829	0.097256622	-3.979891772	6.89E-05	0.000666196
ENSMUSG00000084790	243.0250578	-0.387035423	0.181290965	-2.134885337	0.032770377	0.110012372
ENSMUSG00000058013	5669.314892	-0.386878453	0.138147372	-2.80047638	0.005102724	0.02524309
ENSMUSG00000047676	458.1182161	-0.386809033	0.154363011	-2.505840166	0.012216083	0.050628296
ENSMUSG00000027349	2351.898548	-0.386523148	0.116425988	-3.319904376	0.000900483	0.006105706
ENSMUSG00000014601	4509.013874	-0.3862414	0.10902515	-3.542681658	0.000396081	0.003037013
ENSMUSG00000040877	352.1924151	-0.386231295	0.162376651	-2.378613509	0.017377886	0.066737425
ENSMUSG00000033233	421.9839998	-0.386153295	0.151886341	-2.542383284	0.011009937	0.046782919
ENSMUSG00000022414	2415.626975	-0.385445786	0.102667645	-3.754306289	0.000173822	0.001481242
ENSMUSG00000028807	743.7306413	-0.385211884	0.131715618	-2.924572572	0.003449296	0.018358654
ENSMUSG00000016510	1297.831682	-0.384955009	0.124487776	-3.092311716	0.001986042	0.011717121
ENSMUSG00000062353	580.6003409	-0.384922375	0.160524687	-2.397901419	0.016489302	0.063963808
ENSMUSG00000054520	1093.912995	-0.384845064	0.122073682	-3.152563744	0.001618435	0.009901979
ENSMUSG00000020100	747.4747726	-0.38482733	0.137611287	-2.796480863	0.005166247	0.025517713

ENSMUSG00000035504	4096.482024	-0.384581834	0.122913606	-3.128879263	0.001754744	0.01056209
ENSMUSG00000040860	2979.196154	-0.384551094	0.123174199	-3.122010099	0.001796208	0.010768072
ENSMUSG00000030231	6143.919893	-0.384406757	0.096754643	-3.973005807	7.10E-05	0.0006828
ENSMUSG00000053192	271.7395981	-0.384350697	0.178690645	-2.150927922	0.031481889	0.106310965
ENSMUSG00000025572	2523.811148	-0.384089938	0.131973656	-2.910353093	0.003610206	0.019005422
ENSMUSG00000040621	316.7825813	-0.383848682	0.176556803	-2.174080388	0.029699099	0.101503774
ENSMUSG00000042331	2693.064923	-0.383732274	0.134773886	-2.847230158	0.004410146	0.022364448
ENSMUSG00000027887	543.2106892	-0.383717979	0.175207793	-2.190073698	0.028518892	0.098497726
ENSMUSG00000000561	1436.226659	-0.383244224	0.185792942	-2.062749099	0.039136472	0.125960813
ENSMUSG00000002274	314.3991151	-0.382998158	0.175848589	-2.177999614	0.029406065	0.100858915
ENSMUSG00000066735	1515.860902	-0.382923126	0.17337974	-2.208580574	0.027203828	0.095059944
ENSMUSG00000000340	1608.028714	-0.382833764	0.128338899	-2.982990872	0.002854465	0.015795887
ENSMUSG00000032105	560.8377383	-0.38227047	0.189256439	-2.019854502	0.043398482	0.136043188
ENSMUSG00000015970	7276.889519	-0.382212182	0.119129789	-3.208367825	0.001334907	0.00841191
ENSMUSG00000022436	512.871085	-0.381938144	0.148144513	-2.578145733	0.00993321	0.043156148
ENSMUSG00000029189	5835.791815	-0.381909432	0.099961758	-3.82055538	0.000133152	0.00117368
ENSMUSG00000020850	26224.99992	-0.381802683	0.139982388	-2.72750514	0.006381526	0.030231916
ENSMUSG00000031311	16647.20657	-0.381752627	0.117517967	-3.248461794	0.001160308	0.007506825
ENSMUSG00000020422	25223.8369	-0.381377296	0.142480661	-2.676695175	0.007435225	0.034280121
ENSMUSG00000032232	1408.345016	-0.381307002	0.18084539	-2.108469578	0.034990392	0.115414986
ENSMUSG00000032245	2122.670816	-0.381270383	0.132539228	-2.876660672	0.004019075	0.02075235
ENSMUSG00000035397	2422.166851	-0.381235637	0.112339078	-3.393615518	0.000689765	0.004858636
ENSMUSG00000022957	4271.558299	-0.381146724	0.099670229	-3.824077948	0.000131262	0.001160699
ENSMUSG00000038393	19138.87507	-0.381139618	0.105866806	-3.600180572	0.000317996	0.00250765
ENSMUSG00000021263	4784.57846	-0.381092305	0.129584085	-2.940888202	0.003272726	0.017612227
ENSMUSG00000049313	14311.76438	-0.380559813	0.106606974	-3.569745952	0.000357328	0.002779478
ENSMUSG00000040706	1748.09197	-0.380508453	0.109818407	-3.464887752	0.000530453	0.003893887
ENSMUSG00000032431	466.3039379	-0.380220412	0.178295499	-2.132529496	0.032963342	0.110371023
ENSMUSG00000050912	1173.855565	-0.379917342	0.146481787	-2.593614873	0.009497281	0.04167628



ENSMUSG00000022428	654.0809753	-0.37969857	0.149929614	-2.532512162	0.011324844	0.04780529
ENSMUSG00000046994	2019.340065	-0.379681407	0.174286501	-2.178490046	0.029369573	0.100749244
ENSMUSG00000029456	1120.156624	-0.379589565	0.151751584	-2.501387823	0.012370763	0.051088959
ENSMUSG00000022940	841.5247521	-0.378976405	0.129821137	-2.919219572	0.00350909	0.01860585
ENSMUSG00000024869	260.9094785	-0.378816067	0.192047789	-1.972509396	0.048551485	0.147997083
ENSMUSG00000061393	1086.705881	-0.378520946	0.131168138	-2.885768993	0.003904586	0.020245566
ENSMUSG00000045975	1179.430541	-0.378454942	0.13350726	-2.834714319	0.004586668	0.023105328
ENSMUSG00000040195	1449.621571	-0.377465965	0.182626268	-2.066876627	0.038745781	0.125010077
ENSMUSG00000038888	721.2246832	-0.377311747	0.144896464	-2.604009357	0.009214024	0.040665338
ENSMUSG00000020644	3269.095127	-0.37726917	0.100585638	-3.750726039	0.000176323	0.001498546
ENSMUSG00000081051	696.6315856	-0.376899228	0.126774608	-2.972986736	0.002949172	0.016203371
ENSMUSG00000020326	3680.041583	-0.376692039	0.134067761	-2.809713812	0.004958557	0.024694234
ENSMUSG00000009772	3436.048045	-0.376386576	0.144997168	-2.595820193	0.009436543	0.041449322
ENSMUSG00000003546	3996.534323	-0.37612644	0.147256215	-2.554231337	0.010642252	0.045533767
ENSMUSG00000052539	7860.973752	-0.375701814	0.112580578	-3.337181436	0.000846327	0.005787775
ENSMUSG00000028430	4734.490022	-0.375438205	0.120493252	-3.115844233	0.001834191	0.010969241
ENSMUSG00000047710	1637.13902	-0.375413463	0.142883372	-2.627411846	0.008603713	0.038550965
ENSMUSG00000022629	5245.233118	-0.375126222	0.114037576	-3.289496641	0.001003668	0.006663528
ENSMUSG00000056962	5461.294656	-0.374645765	0.129156926	-2.900702081	0.003723277	0.01948212
ENSMUSG00000030753	3661.977716	-0.374614219	0.173423886	-2.160107398	0.030764356	0.104346147
ENSMUSG00000018999	1300.903167	-0.374571856	0.13203141	-2.836990499	0.004554097	0.022961997
ENSMUSG00000045896	1833.176131	-0.374511653	0.122279035	-3.062762588	0.00219304	0.012703111
ENSMUSG00000091994	602.9737351	-0.374302431	0.138406065	-2.704378816	0.006843223	0.032054339
ENSMUSG00000025218	773.832925	-0.374271601	0.132055417	-2.834201039	0.004594042	0.023137248
ENSMUSG00000044149	824.0273481	-0.374179618	0.171942444	-2.176191106	0.029540974	0.101103937
ENSMUSG00000030551	891.9685864	-0.374102965	0.140884489	-2.655387884	0.007921726	0.036046198
ENSMUSG00000041530	4510.881635	-0.37363528	0.127459183	-2.931411231	0.003374258	0.018062728
ENSMUSG00000051557	1162.461115	-0.373620116	0.147729787	-2.529077736	0.011436269	0.048211767
ENSMUSG00000033373	1088.360306	-0.373607219	0.123111813	-3.03469838	0.002407763	0.013710001

ENSMUSG00000013629	9825.812138	-0.373594094	0.158676415	-2.354439969	0.01855064	0.070201564
ENSMUSG00000045414	784.225574	-0.373575563	0.126244145	-2.959151597	0.003084873	0.016821318
ENSMUSG00000033658	1854.964858	-0.373265475	0.141054344	-2.646252952	0.008138893	0.036861548
ENSMUSG00000062075	8038.053646	-0.373174848	0.095457277	-3.909338908	9.25E-05	0.000856405
ENSMUSG00000001768	3376.014248	-0.372940289	0.133076335	-2.802453856	0.005071547	0.02513346
ENSMUSG00000033857	7729.727416	-0.372704156	0.169453178	-2.199452147	0.027845788	0.096697123
ENSMUSG00000020268	228.6639149	-0.37247774	0.180441196	-2.064261085	0.038992969	0.12564401
ENSMUSG00000036523	3544.751896	-0.372073579	0.134909625	-2.757946884	0.005816565	0.028052598
ENSMUSG00000021120	726.3095408	-0.372019256	0.168586995	-2.206690115	0.027335716	0.095367061
ENSMUSG00000026821	3680.018867	-0.371970285	0.094598438	-3.932097534	8.42E-05	0.00079137
ENSMUSG00000027247	3830.482053	-0.371914401	0.113738238	-3.269915253	0.001075797	0.007072922
ENSMUSG00000016253	2783.595416	-0.371910875	0.120579551	-3.084361095	0.002039898	0.011958193
ENSMUSG00000024764	3273.191356	-0.371621474	0.130097326	-2.856488183	0.004283559	0.021839886
ENSMUSG00000042787	1132.370521	-0.371080997	0.14692736	-2.525608557	0.011549809	0.04849789
ENSMUSG00000075590	1771.38502	-0.370932099	0.148143229	-2.503874814	0.012284149	0.05082807
ENSMUSG00000020781	2017.059814	-0.370922469	0.11417095	-3.248834036	0.001158791	0.007499185
ENSMUSG00000014077	6641.012792	-0.370853167	0.139555179	-2.657394505	0.007874723	0.035883572
ENSMUSG00000032553	872.1274755	-0.370692015	0.143799457	-2.577840157	0.009941998	0.043169098
ENSMUSG00000041712	2466.940079	-0.370664452	0.140686842	-2.634677466	0.008421727	0.037888425
ENSMUSG00000087138	547.7483438	-0.370647608	0.16060705	-2.307791647	0.021010728	0.077488866
ENSMUSG00000021807	5125.076764	-0.370446652	0.12389104	-2.990100423	0.002788857	0.015502071
ENSMUSG00000031969	1857.779439	-0.370213847	0.129435582	-2.860216968	0.004233513	0.021649063
ENSMUSG00000030688	14039.74741	-0.370042073	0.104329516	-3.546858899	0.000389853	0.002992812
ENSMUSG00000026174	3283.280311	-0.369801047	0.153747347	-2.405251569	0.016161336	0.06306456
ENSMUSG00000067825	1926.144357	-0.369797909	0.114163829	-3.239186296	0.001198712	0.007706108
ENSMUSG00000026676	1396.555063	-0.369398276	0.18412843	-2.006199021	0.044835018	0.139508187
ENSMUSG00000005374	3575.007394	-0.369229477	0.144405491	-2.556893612	0.010561151	0.045275708
ENSMUSG00000048170	8034.659218	-0.369085708	0.123369762	-2.991703177	0.002774259	0.015428614
ENSMUSG00000090673	1754.416603	-0.368834826	0.118889747	-3.102326614	0.00192006	0.011394161

ENSMUSG00000048039	4543.0346	-0.368339159	0.140824583	-2.615588496	0.008907384	0.039601986
ENSMUSG00000074886	5608.948582	-0.368129735	0.099363627	-3.704874155	0.000211496	0.00176057
ENSMUSG00000024486	5122.029999	-0.368039806	0.183063802	-2.010445546	0.044384054	0.138396083
ENSMUSG00000023805	2633.238976	-0.367751441	0.130346094	-2.821346089	0.004782258	0.0239392
ENSMUSG00000060510	4366.855913	-0.367672158	0.146719062	-2.505960392	0.01221193	0.050628296
ENSMUSG00000024169	3477.545704	-0.367625717	0.136314593	-2.696891862	0.006998999	0.032626398
ENSMUSG00000027082	542.5042193	-0.367538988	0.180170214	-2.039954212	0.041354886	0.131363815
ENSMUSG00000066042	617.6588993	-0.366994634	0.141446036	-2.594591156	0.00947035	0.04156628
ENSMUSG00000040463	20838.26365	-0.366830388	0.135889216	-2.699481229	0.006944767	0.032407461
ENSMUSG00000068114	567.3043143	-0.366758198	0.182786117	-2.006488261	0.04480418	0.139472085
ENSMUSG00000058838	560.0046792	-0.366617294	0.139307474	-2.631713025	0.008495559	0.038151321
ENSMUSG00000026113	3990.286853	-0.366588798	0.11388576	-3.218916909	0.001286758	0.008154584
ENSMUSG00000040272	465.2526986	-0.366499848	0.15689715	-2.335924191	0.019495193	0.07290699
ENSMUSG00000078878	333.773862	-0.366484661	0.16837276	-2.176626796	0.029508424	0.101039055
ENSMUSG00000039473	6431.60113	-0.366106229	0.13310981	-2.750407571	0.005952118	0.028539709
ENSMUSG00000013155	572.8342156	-0.365714318	0.146189341	-2.501648307	0.012361666	0.051070304
ENSMUSG00000024312	4174.809092	-0.365591986	0.131625505	-2.777516301	0.005477609	0.026730014
ENSMUSG00000037904	800.3516841	-0.365386084	0.143401779	-2.547988501	0.010834604	0.046234694
ENSMUSG00000051705	357.9375807	-0.365273105	0.178338014	-2.048206645	0.040539756	0.129375657
ENSMUSG00000026248	1197.456734	-0.364762411	0.127298881	-2.865401542	0.004164808	0.02139092
ENSMUSG00000021193	5613.614725	-0.364708454	0.112695464	-3.236230117	0.001211197	0.007770686
ENSMUSG00000028826	2368.736135	-0.364548685	0.112246446	-3.247752576	0.001163204	0.007521603
ENSMUSG00000001280	8136.91845	-0.364515429	0.128210087	-2.843110373	0.00446756	0.022599739
ENSMUSG00000036061	937.813103	-0.364508861	0.15985419	-2.280258403	0.022592367	0.082110884
ENSMUSG00000073700	3466.278527	-0.363955886	0.156398377	-2.327107823	0.019959527	0.074331592
ENSMUSG00000021902	533.5998555	-0.363763913	0.141998064	-2.561752627	0.010414547	0.044750445
ENSMUSG00000039166	2156.423029	-0.363718735	0.148027942	-2.457095122	0.014006559	0.05651978
ENSMUSG00000017801	2082.726498	-0.363519368	0.112827322	-3.221909036	0.001273396	0.008101638
ENSMUSG00000023882	418.7250558	-0.363484424	0.1648186	-2.205360465	0.02742881	0.095576546

ENSMUSG00000027469	5601.754746	-0.363449964	0.161878241	-2.245205785	0.024754925	0.088371951
ENSMUSG00000025041	1139.968134	-0.363054448	0.111905787	-3.244286628	0.001177452	0.007600103
ENSMUSG00000050619	1845.322257	-0.36229646	0.134200237	-2.699670787	0.006940812	0.032395783
ENSMUSG00000022673	5790.630233	-0.362277443	0.155074159	-2.336156101	0.019483107	0.072880235
ENSMUSG00000024664	763.6597317	-0.362181439	0.142679376	-2.538428815	0.011135145	0.047183142
ENSMUSG00000023232	4624.381916	-0.361954348	0.106279025	-3.405698795	0.000659949	0.004688606
ENSMUSG00000020923	16781.8816	-0.361878388	0.113966717	-3.175298871	0.001496822	0.009256971
ENSMUSG00000054723	1944.422868	-0.361826195	0.16126459	-2.243680368	0.024852974	0.08862267
ENSMUSG00000031667	1791.967745	-0.36175085	0.119063803	-3.038294101	0.002379216	0.013580472
ENSMUSG00000023990	1263.528282	-0.361591076	0.122081795	-2.961875474	0.003057714	0.016717353
ENSMUSG00000042712	1974.345078	-0.36109062	0.129106183	-2.796849935	0.00516035	0.025499879
ENSMUSG00000024042	2775.221427	-0.361076297	0.140188328	-2.575651634	0.010005139	0.043401779
ENSMUSG00000020553	1323.736525	-0.361067081	0.1293029	-2.792412856	0.005231656	0.025766751
ENSMUSG00000020044	1028.051573	-0.360996244	0.159322928	-2.265814778	0.023462726	0.084653334
ENSMUSG00000047264	938.6892637	-0.360460746	0.160845484	-2.241037399	0.025023653	0.089093116
ENSMUSG00000022994	27973.06497	-0.360307236	0.110865163	-3.249959027	0.001154216	0.00748261
ENSMUSG00000004929	4671.023426	-0.360266635	0.121126355	-2.974304274	0.002936537	0.016149869
ENSMUSG00000034902	5891.452355	-0.359929157	0.102657758	-3.506107704	0.000454711	0.003420072
ENSMUSG00000074272	24944.9129	-0.359902311	0.162808582	-2.210585621	0.027064545	0.094773377
ENSMUSG00000021365	4176.397833	-0.359657698	0.141365755	-2.544164236	0.010953957	0.046609698
ENSMUSG00000056313	4489.819259	-0.359371466	0.180371705	-1.9923938	0.046327867	0.142958041
ENSMUSG00000024645	1183.717056	-0.359242689	0.137229943	-2.617815631	0.00884946	0.039415182
ENSMUSG00000001576	6372.555534	-0.359070477	0.117554135	-3.05451168	0.002254272	0.012990317
ENSMUSG00000030029	26208.46438	-0.359022886	0.097921803	-3.666424389	0.000245966	0.002001927
ENSMUSG00000026694	1676.90191	-0.358877872	0.152874828	-2.347527558	0.018898475	0.071275984
ENSMUSG00000066306	23337.22793	-0.358666861	0.111679814	-3.211563929	0.001320146	0.008342469
ENSMUSG00000109511	4228.673135	-0.358241155	0.113285395	-3.162288961	0.001565342	0.009624671
ENSMUSG00000040599	1542.724173	-0.357804636	0.161577445	-2.214446669	0.026798068	0.094069527
ENSMUSG00000035601	751.86925	-0.357791754	0.132150839	-2.707449736	0.006780234	0.031818982

ENSMUSG00000002870	9498.147578	-0.357531204	0.118174317	-3.025456072	0.002482585	0.014080397
ENSMUSG00000046822	1167.618815	-0.357461123	0.122186875	-2.925527987	0.003438722	0.018315488
ENSMUSG00000020472	4190.689518	-0.356525033	0.104944406	-3.397275248	0.000680605	0.004804737
ENSMUSG00000024431	8992.956128	-0.356230587	0.11477693	-3.1036776	0.001911315	0.011348305
ENSMUSG00000046605	1063.025371	-0.356158575	0.142413607	-2.500874617	0.012388703	0.051136198
ENSMUSG00000041645	7020.060551	-0.355927489	0.126265541	-2.818880629	0.004819144	0.024107609
ENSMUSG00000004880	10510.96146	-0.355923476	0.113240521	-3.143075224	0.001671829	0.010158979
ENSMUSG00000021640	2434.488302	-0.355916575	0.106354879	-3.346499731	0.000818388	0.005613922
ENSMUSG00000063902	1229.934546	-0.355709121	0.152200289	-2.33711199	0.019433362	0.072796391
ENSMUSG00000030780	3601.741101	-0.355650291	0.101718716	-3.496409544	0.000471564	0.003526612
ENSMUSG00000027646	6203.49983	-0.355558729	0.10284054	-3.45737905	0.000545457	0.003983051
ENSMUSG00000024997	3248.9316	-0.355484692	0.117400432	-3.027967505	0.002462046	0.013974568
ENSMUSG00000015023	3466.769712	-0.355456564	0.113142549	-3.141670096	0.001679872	0.010201383
ENSMUSG00000006732	1436.191275	-0.355182218	0.143513128	-2.474910995	0.013326938	0.054234316
ENSMUSG00000034064	1292.69851	-0.355114086	0.128199505	-2.770011365	0.005605434	0.027199037
ENSMUSG00000061411	2701.937045	-0.354278641	0.132576456	-2.67225911	0.007534245	0.034639987
ENSMUSG00000052214	3741.295852	-0.354275938	0.114638861	-3.09036513	0.001999106	0.011784842
ENSMUSG00000022186	6494.073726	-0.353607119	0.120037772	-2.945798759	0.003221219	0.017385384
ENSMUSG00000032788	8141.287815	-0.353552246	0.126554883	-2.793667353	0.005211406	0.025689557
ENSMUSG00000045466	1149.745686	-0.353396337	0.115471573	-3.060461775	0.00220996	0.012784516
ENSMUSG00000033256	1159.105792	-0.353063318	0.117890511	-2.994840839	0.002745881	0.015315069
ENSMUSG00000027333	896.219648	-0.352869101	0.129435352	-2.726218891	0.00640645	0.030326944
ENSMUSG00000024960	64879.60318	-0.352656586	0.097497304	-3.617090649	0.000297933	0.002377175
ENSMUSG00000030536	32719.58561	-0.352367295	0.12708609	-2.772666114	0.005559913	0.027026905
ENSMUSG00000038508	606.3021005	-0.352233708	0.155295528	-2.268151014	0.023320004	0.08420651
ENSMUSG00000075595	5156.348444	-0.352199571	0.130922209	-2.690143813	0.007142123	0.033154973
ENSMUSG00000026355	13714.4921	-0.352100661	0.130001995	-2.70842505	0.006760338	0.031746114
ENSMUSG00000039246	320.9589036	-0.351863064	0.170571724	-2.062845205	0.039127338	0.125960813
ENSMUSG00000061607	7114.190582	-0.351833318	0.152871762	-2.301493175	0.021363771	0.07860641

ENSMUSG00000055717	1622.578486	-0.351744053	0.113900094	-3.088180545	0.002013861	0.011853025
ENSMUSG00000037795	3006.418427	-0.351277624	0.123852651	-2.836254372	0.004564607	0.022999392
ENSMUSG00000022704	2104.531065	-0.350947559	0.114206546	-3.072919816	0.002119754	0.012352402
ENSMUSG00000029998	4254.079552	-0.350706956	0.109838015	-3.19294696	0.001408288	0.008807132
ENSMUSG00000032702	4681.532652	-0.350525249	0.109368338	-3.204997486	0.001350637	0.008499026
ENSMUSG00000045438	1256.247006	-0.350482279	0.119762171	-2.926485695	0.003428153	0.018281022
ENSMUSG00000026933	3351.536885	-0.350477551	0.120279278	-2.913864775	0.003569845	0.018851791
ENSMUSG00000039254	2986.480126	-0.349996152	0.115392078	-3.033103815	0.002420523	0.013763408
ENSMUSG00000028412	7937.367103	-0.349971874	0.137402179	-2.547062033	0.010863412	0.046331029
ENSMUSG00000005566	26550.11431	-0.349425462	0.097962307	-3.566937881	0.000361177	0.002807462
ENSMUSG00000033454	2823.617601	-0.349241821	0.149562138	-2.335095139	0.019538451	0.073047276
ENSMUSG00000020083	560.1204972	-0.348151504	0.149540558	-2.328140991	0.019904618	0.074178402
ENSMUSG00000029053	2967.327777	-0.347591007	0.116534244	-2.982737059	0.002856833	0.01580507
ENSMUSG00000005899	4005.519051	-0.347551656	0.127503954	-2.725810813	0.006414375	0.030351577
ENSMUSG00000026036	1472.662376	-0.347384996	0.126139776	-2.753968697	0.00588774	0.028296931
ENSMUSG00000019731	3840.675318	-0.347044308	0.119211397	-2.911167197	0.003600813	0.018974888
ENSMUSG00000038014	30771.38432	-0.346847513	0.092305041	-3.757622634	0.000171535	0.001463431
ENSMUSG00000000957	3478.821826	-0.346578643	0.117227192	-2.956469711	0.003111828	0.016921321
ENSMUSG00000074358	1666.599161	-0.346221006	0.10468703	-3.307200582	0.000942334	0.006328735
ENSMUSG00000038949	1834.682937	-0.346017276	0.117323497	-2.949258113	0.003185378	0.017237096
ENSMUSG00000048175	1109.780112	-0.345996397	0.116590687	-2.967616081	0.003001189	0.016450183
ENSMUSG00000044617	3950.049281	-0.345656511	0.132122406	-2.616183889	0.008891866	0.039556652
ENSMUSG00000028107	4729.122005	-0.345330765	0.102433472	-3.371268758	0.000748228	0.005201446
ENSMUSG00000001729	12177.40838	-0.345234498	0.117444552	-2.939553114	0.003286859	0.017657379
ENSMUSG00000006705	1564.71383	-0.344801386	0.159281251	-2.16473303	0.030408136	0.10334225
ENSMUSG00000038838	4923.921207	-0.344631411	0.105736087	-3.259354684	0.00111666	0.007285731
ENSMUSG00000046897	4288.901735	-0.344506297	0.116919186	-2.946533498	0.003213576	0.017356735
ENSMUSG00000047248	6192.160693	-0.344258377	0.13049317	-2.638133304	0.00833638	0.037595474
ENSMUSG00000033685	23381.90668	-0.344048778	0.114355925	-3.008578497	0.00262473	0.014766423

ENSMUSG00000001983	1268.204727	-0.343700942	0.115446234	-2.977151627	0.002909401	0.016040185
ENSMUSG000000051517	2141.452877	-0.343549603	0.112487226	-3.054121041	0.00225721	0.013003885
ENSMUSG000000045969	3817.015955	-0.342899031	0.130205314	-2.633525634	0.008450346	0.037994185
ENSMUSG000000047613	1377.518889	-0.342883954	0.119997714	-2.857420712	0.004270993	0.021790762
ENSMUSG000000038252	13721.68032	-0.34281477	0.13058391	-2.625245102	0.008658661	0.038704511
ENSMUSG000000026972	3328.696725	-0.342699418	0.099019361	-3.46093343	0.000538306	0.003937041
ENSMUSG000000038299	4280.11857	-0.342656234	0.131606079	-2.603650497	0.009223676	0.040699882
ENSMUSG000000021646	2639.018612	-0.341356932	0.126127634	-2.706440467	0.006800878	0.031889481
ENSMUSG000000041609	464.4125333	-0.341354903	0.136868205	-2.494040911	0.012629799	0.051918367
ENSMUSG000000081406	808.1492338	-0.341322068	0.14544995	-2.346663354	0.018942361	0.07138114
ENSMUSG000000074746	6720.68136	-0.340985551	0.125547391	-2.715990729	0.006607777	0.031128017
ENSMUSG000000078877	506.4131491	-0.340930598	0.139435453	-2.44507828	0.014482071	0.058014129
ENSMUSG000000028068	7432.593644	-0.340320708	0.12344732	-2.756809207	0.00583684	0.028126051
ENSMUSG00000001228	11609.25932	-0.340093446	0.110914789	-3.066258777	0.002167556	0.012578369
ENSMUSG000000026603	6938.83605	-0.339742401	0.099485012	-3.415010912	0.000637795	0.00455089
ENSMUSG00000003779	5033.381806	-0.339578185	0.131425346	-2.583810477	0.009771547	0.042611513
ENSMUSG000000033068	2049.954412	-0.339036744	0.102725681	-3.30040882	0.000965441	0.006448127
ENSMUSG000000025223	5489.42659	-0.339011228	0.098638706	-3.436898592	0.000588416	0.004256854
ENSMUSG000000026558	10577.21051	-0.338915062	0.112182012	-3.021117691	0.002518435	0.014251106
ENSMUSG000000030671	1740.954276	-0.338590922	0.152162629	-2.225191064	0.026068414	0.091971478
ENSMUSG000000032601	10772.27118	-0.338513634	0.133332456	-2.538868965	0.011121147	0.047150702
ENSMUSG000000018166	22013.13314	-0.33834352	0.107411933	-3.149962101	0.001632916	0.009965974
ENSMUSG000000029381	29971.825	-0.338113982	0.096428532	-3.50636866	0.000454266	0.003417873
ENSMUSG000000070473	15369.46379	-0.33716081	0.115574572	-2.917257693	0.003531239	0.018705501
ENSMUSG000000036285	2880.338455	-0.337130312	0.117612281	-2.866455006	0.004150972	0.021344436
ENSMUSG000000035266	2070.735155	-0.336873934	0.154720321	-2.177308914	0.029457527	0.100953317
ENSMUSG000000028621	664.751201	-0.33674146	0.137946714	-2.441098093	0.014642677	0.058489403
ENSMUSG000000030978	8522.24991	-0.336653685	0.158813109	-2.119810434	0.034022035	0.112955993
ENSMUSG00000000325	1455.760593	-0.336071016	0.120558146	-2.787625938	0.005309581	0.026058312

ENSMUSG00000004530	6832.276222	-0.335761844	0.10346062	-3.245310565	0.001173226	0.007577212
ENSMUSG00000030590	2784.393297	-0.334687121	0.140183932	-2.387485612	0.016964067	0.065455991
ENSMUSG00000021710	2495.812485	-0.334685088	0.113416388	-2.950941168	0.003168073	0.017171385
ENSMUSG00000040600	15202.70626	-0.334650857	0.137330758	-2.436823774	0.014816898	0.059026732
ENSMUSG00000025316	1512.497979	-0.334469617	0.169875816	-1.968906617	0.048963816	0.148907957
ENSMUSG00000026917	4015.611477	-0.333642053	0.132787589	-2.512599666	0.011984525	0.04991126
ENSMUSG00000053477	1758.839137	-0.333601247	0.112129259	-2.975148938	0.002928463	0.016117389
ENSMUSG00000039202	9619.73133	-0.333526892	0.122132922	-2.73085166	0.00631709	0.029986679
ENSMUSG00000035726	17637.70544	-0.333434499	0.160757435	-2.074146677	0.038065691	0.123225863
ENSMUSG00000032109	316.1281263	-0.333409114	0.168375595	-1.980151067	0.047686556	0.14603926
ENSMUSG00000023022	15253.76479	-0.333148147	0.103380234	-3.222551693	0.001270542	0.0080886
ENSMUSG00000078684	2954.81269	-0.333128218	0.136910756	-2.433177849	0.014966947	0.059475747
ENSMUSG00000031948	11679.74192	-0.33312506	0.10525745	-3.164859693	0.001551578	0.009547939
ENSMUSG00000028868	8238.31248	-0.332995831	0.095745423	-3.477929501	0.000505303	0.003745018
ENSMUSG00000032718	2188.392223	-0.332892629	0.116313288	-2.86203438	0.004209312	0.021569825
ENSMUSG00000030872	1385.692633	-0.332724638	0.112588067	-2.955238915	0.00312427	0.016968911
ENSMUSG00000027315	7627.272061	-0.33252318	0.110609129	-3.006290564	0.002644562	0.014851767
ENSMUSG00000048186	2012.257045	-0.332509504	0.125810523	-2.642938723	0.008218991	0.037171307
ENSMUSG00000027459	993.9183864	-0.332410312	0.142043418	-2.340202146	0.019273305	0.072377947
ENSMUSG00000029060	1988.243667	-0.332389309	0.136077962	-2.442638795	0.014580322	0.058323903
ENSMUSG00000037257	2443.47972	-0.33212565	0.123339004	-2.692786867	0.007085755	0.032941301
ENSMUSG00000021033	2672.985228	-0.331994622	0.115860857	-2.865459755	0.004164042	0.02139092
ENSMUSG00000031728	892.7151712	-0.331853755	0.136740295	-2.42689073	0.015228842	0.060248075
ENSMUSG00000020899	6705.600749	-0.331630418	0.131444739	-2.522964551	0.011637013	0.048770346
ENSMUSG00000038046	884.4988815	-0.331563275	0.13802066	-2.402272784	0.016293553	0.063469438
ENSMUSG00000007035	407.723058	-0.331427648	0.150638329	-2.200154831	0.027795912	0.096564543
ENSMUSG00000020611	5363.447372	-0.331414647	0.111566482	-2.970557481	0.002972598	0.016311984
ENSMUSG00000063146	10314.42156	-0.331324543	0.113365756	-2.922615746	0.003471046	0.018447996
ENSMUSG00000016554	13183.33684	-0.331311982	0.092153461	-3.59522019	0.000324117	0.002553211



ENSMUSG00000051223	12574.8336	-0.330878062	0.132444295	-2.498243231	0.012481052	0.051439651
ENSMUSG00000058558	34064.34608	-0.330858198	0.118699215	-2.787366366	0.005313837	0.026067723
ENSMUSG00000048550	444.0187654	-0.330842268	0.154278831	-2.144443699	0.031997352	0.107801261
ENSMUSG00000023452	3502.886376	-0.330479556	0.128739259	-2.567045654	0.010256911	0.044260713
ENSMUSG00000073838	9887.375224	-0.330472415	0.097148816	-3.401713252	0.000669649	0.004737891
ENSMUSG00000034189	1394.369622	-0.330283536	0.128123983	-2.577843177	0.009941911	0.043169098
ENSMUSG00000024442	3587.705888	-0.330213316	0.114891231	-2.874138553	0.004051312	0.020894613
ENSMUSG00000002825	1806.01071	-0.330163555	0.135433073	-2.437835517	0.014775495	0.05892495
ENSMUSG00000041684	935.0313154	-0.329786612	0.154099313	-2.140091388	0.032347382	0.108756063
ENSMUSG00000030407	842.9247161	-0.329411192	0.128655872	-2.560405428	0.010455011	0.044895915
ENSMUSG00000000544	11098.14754	-0.329374597	0.095241696	-3.458302537	0.000543591	0.003972023
ENSMUSG00000027067	12505.61375	-0.32893194	0.114621263	-2.869728803	0.00410824	0.02114909
ENSMUSG00000030281	2936.24498	-0.328921092	0.104384681	-3.151047541	0.00162686	0.009934449
ENSMUSG00000038991	11893.30591	-0.328877323	0.114083471	-2.882778027	0.003941851	0.020405576
ENSMUSG00000031320	66183.85516	-0.328836479	0.102188788	-3.2179311	0.001291188	0.008178015
ENSMUSG00000025474	2821.281325	-0.328742957	0.116766995	-2.815375666	0.004872025	0.024312155
ENSMUSG00000039193	5477.863988	-0.328741215	0.13937993	-2.358597936	0.018344119	0.069632713
ENSMUSG00000056612	4226.277692	-0.328537144	0.101899769	-3.224120581	0.001263602	0.00805131
ENSMUSG00000051339	14371.68324	-0.328392567	0.105451518	-3.114156864	0.001844714	0.0110115
ENSMUSG00000029516	15742.22433	-0.328183821	0.132215895	-2.482181294	0.013058082	0.053383737
ENSMUSG00000021175	4486.883141	-0.328160281	0.118340641	-2.773014219	0.005553969	0.027018352
ENSMUSG00000023018	2514.246114	-0.327952961	0.122764042	-2.671408954	0.007553356	0.0347028
ENSMUSG00000029387	2133.363452	-0.327817682	0.111885826	-2.9299304	0.003390379	0.018122927
ENSMUSG00000071645	1886.256058	-0.327526005	0.117380731	-2.790287655	0.005266123	0.025890611
ENSMUSG00000020186	7749.830054	-0.327487975	0.123755426	-2.646251445	0.008138929	0.036861548
ENSMUSG00000020610	2031.975751	-0.327457279	0.116672536	-2.806635482	0.005006186	0.024848196
ENSMUSG00000078429	11983.7788	-0.327426963	0.09433067	-3.471055214	0.000518417	0.003823157
ENSMUSG00000002748	22644.61431	-0.327266542	0.129981466	-2.517793897	0.01180924	0.049342458
ENSMUSG00000020534	10018.62508	-0.326976382	0.108738805	-3.00698893	0.002638494	0.014828893

ENSMUSG00000025967	40712.47674	-0.326701022	0.098951086	-3.301641586	0.000961208	0.006429485
ENSMUSG00000052485	1600.430699	-0.326661254	0.121287306	-2.69328478	0.007075181	0.032912726
ENSMUSG00000005483	9112.633915	-0.326305605	0.165446274	-1.972275329	0.048578184	0.148038001
ENSMUSG00000071652	2620.867843	-0.326256155	0.137437305	-2.37385442	0.01760349	0.067383354
ENSMUSG00000015790	1681.522882	-0.326097676	0.13478459	-2.419398808	0.015546186	0.061251264
ENSMUSG00000028629	905.1905961	-0.326013255	0.122837692	-2.654016444	0.007953995	0.036163516
ENSMUSG00000034781	9213.551421	-0.325238554	0.105190919	-3.091888136	0.001988878	0.011727648
ENSMUSG00000037905	5089.953734	-0.32520916	0.112773054	-2.883748794	0.003929721	0.020352231
ENSMUSG00000055491	8160.96519	-0.325151047	0.154160285	-2.109175184	0.034929463	0.115299283
ENSMUSG00000032513	1927.455585	-0.324879538	0.117598213	-2.762623087	0.005733894	0.027737867
ENSMUSG00000025722	1284.979413	-0.324834729	0.111723548	-2.907486689	0.003643459	0.019140817
ENSMUSG00000031090	3502.571218	-0.324241122	0.106401395	-3.047339016	0.002308772	0.013242776
ENSMUSG00000054792	1152.253888	-0.323931995	0.114509826	-2.828857637	0.004671447	0.023458219
ENSMUSG00000007610	1733.691361	-0.323589544	0.106766075	-3.030827385	0.002438846	0.013854766
ENSMUSG00000024277	2227.631205	-0.323484593	0.137453583	-2.353409682	0.018602126	0.070360587
ENSMUSG00000032350	5665.573829	-0.323161302	0.097272017	-3.322243266	0.000892968	0.006062125
ENSMUSG00000012350	15364.58549	-0.322886563	0.135159842	-2.3889238	0.016897807	0.065275937
ENSMUSG00000030609	2180.565255	-0.322853484	0.163099866	-1.979483439	0.047761602	0.146228926
ENSMUSG00000034320	5396.613068	-0.322837834	0.114975228	-2.807890369	0.00498672	0.024781156
ENSMUSG00000031652	5014.999512	-0.322811907	0.128694448	-2.50835923	0.012129329	0.050362346
ENSMUSG00000018846	4792.983065	-0.322517836	0.1153399	-2.796238213	0.005170128	0.025531227
ENSMUSG00000028886	3516.719909	-0.322183708	0.118022534	-2.729849097	0.006336332	0.030058827
ENSMUSG00000050973	859.2623937	-0.321837139	0.119982086	-2.682376598	0.007310112	0.033815142
ENSMUSG00000018446	10750.31237	-0.3218337	0.118228233	-2.722139135	0.006486083	0.030655232
ENSMUSG00000059552	8861.088534	-0.321301739	0.1005878	-3.194241645	0.001401987	0.008770186
ENSMUSG00000036718	1555.770194	-0.321276434	0.15154716	-2.119976609	0.034008018	0.112950807
ENSMUSG00000059810	2682.980342	-0.32125456	0.113612044	-2.82764528	0.004689173	0.023531335
ENSMUSG00000041115	2447.483045	-0.321194497	0.123426379	-2.602316445	0.009259637	0.040826248
ENSMUSG00000004934	2052.739697	-0.321040828	0.108975335	-2.945995326	0.003219173	0.017382753

ENSMUSG00000017264	4300.847596	-0.320990361	0.110951715	-2.893063522	0.003815041	0.019864403
ENSMUSG00000025025	1547.113025	-0.32094719	0.11768214	-2.72723787	0.006386698	0.030246284
ENSMUSG00000008601	4937.198495	-0.320668953	0.118089582	-2.715472001	0.006618137	0.031170238
ENSMUSG00000040711	883.3135508	-0.320599425	0.148509815	-2.158775998	0.030867549	0.104648407
ENSMUSG00000051586	4708.062011	-0.320350811	0.115913949	-2.763695085	0.005715092	0.027658911
ENSMUSG00000029247	6795.142886	-0.320232589	0.102836396	-3.11400051	0.001845692	0.011014389
ENSMUSG00000028104	814.5774418	-0.320159005	0.138621218	-2.309595966	0.020910533	0.077231832
ENSMUSG00000036693	4320.361109	-0.320138293	0.12492429	-2.562658491	0.010387417	0.044693266
ENSMUSG00000058230	7868.417263	-0.320002912	0.139696632	-2.29069884	0.021980838	0.080321257
ENSMUSG00000029366	1711.131273	-0.319859525	0.135095725	-2.367650971	0.017901415	0.068324397
ENSMUSG00000045752	1476.428801	-0.319838785	0.108010027	-2.961195309	0.003064475	0.016737905
ENSMUSG00000028937	3583.987535	-0.319760076	0.118872185	-2.689948663	0.007146301	0.033167464
ENSMUSG00000060675	2340.21136	-0.319640383	0.114777872	-2.784860681	0.005355073	0.026252687
ENSMUSG00000029461	1771.663936	-0.319468691	0.139673862	-2.287247487	0.022181382	0.080920496
ENSMUSG00000037815	23838.8525	-0.319131264	0.109070758	-2.925910375	0.003434499	0.018306108
ENSMUSG00000030216	5362.724406	-0.318630653	0.128008221	-2.489142116	0.012805177	0.052516734
ENSMUSG00000043716	69934.76312	-0.31847245	0.103369048	-3.080926608	0.002063575	0.012082003
ENSMUSG00000037331	22514.7419	-0.318407819	0.12518197	-2.543559746	0.010972929	0.046664243
ENSMUSG00000036006	1033.598585	-0.318401243	0.145402171	-2.189797027	0.02853896	0.098551774
ENSMUSG00000002129	7817.535646	-0.318338761	0.110966875	-2.868772869	0.004120676	0.021202905
ENSMUSG00000040213	689.6448487	-0.317805665	0.128111937	-2.480687372	0.013112933	0.053558884
ENSMUSG00000027551	2413.811922	-0.317795023	0.108091215	-2.940063389	0.003281451	0.017646405
ENSMUSG00000033323	3387.599469	-0.317158708	0.107891066	-2.939619732	0.003286153	0.017657379
ENSMUSG00000058886	3638.480238	-0.316880198	0.108800197	-2.91249654	0.003585522	0.018898776
ENSMUSG00000040659	5107.322479	-0.316802318	0.106557465	-2.973065449	0.002948416	0.016203208
ENSMUSG00000024120	11121.62525	-0.316504084	0.123147226	-2.570127597	0.010166106	0.043936887
ENSMUSG00000045598	2324.546294	-0.316360675	0.13184945	-2.399408381	0.016421589	0.063833726
ENSMUSG00000022433	2648.169135	-0.316317946	0.123252509	-2.566421976	0.010275374	0.044306093
ENSMUSG00000022314	14684.43798	-0.315758194	0.130612959	-2.417510453	0.015627085	0.061463779

ENSMUSG00000036555	1924.152692	-0.315582149	0.102024668	-3.093194557	0.001980143	0.011694694
ENSMUSG00000022221	2761.697781	-0.315517282	0.119563099	-2.638918568	0.008317096	0.037531273
ENSMUSG00000022075	1585.857084	-0.31548349	0.110438084	-2.85665485	0.004281311	0.021833414
ENSMUSG00000021189	1769.077315	-0.314914386	0.139314288	-2.260460078	0.023792711	0.085649156
ENSMUSG00000005802	2675.022056	-0.314827354	0.133804197	-2.352895958	0.018627845	0.070413079
ENSMUSG00000032300	3523.966602	-0.314750082	0.133091721	-2.364911062	0.018034401	0.068749604
ENSMUSG00000046711	18755.79892	-0.314730748	0.109259103	-2.880590622	0.003969308	0.020529007
ENSMUSG00000029705	8842.684954	-0.314581697	0.108249349	-2.906083974	0.003659832	0.019204216
ENSMUSG00000041895	2036.859189	-0.314498196	0.115132239	-2.731625821	0.006302267	0.029929059
ENSMUSG00000037029	2832.113226	-0.314397085	0.11080236	-2.837458385	0.004547427	0.022934524
ENSMUSG00000021906	1747.125019	-0.314254845	0.104496011	-3.00733818	0.002635464	0.014815599
ENSMUSG00000049327	9203.319064	-0.314202354	0.109081413	-2.880438978	0.003971218	0.020529007
ENSMUSG00000034525	6952.768768	-0.313746684	0.129212208	-2.428150478	0.015176045	0.060081836
ENSMUSG00000024177	681.1215138	-0.313570837	0.134919032	-2.324140874	0.020117945	0.074812455
ENSMUSG00000001053	984.3613774	-0.313477426	0.145844817	-2.149390233	0.031603479	0.106656959
ENSMUSG00000025507	2008.701312	-0.313111907	0.133079053	-2.352880216	0.018628634	0.070413079
ENSMUSG00000021222	1319.737068	-0.312567583	0.124813743	-2.504272162	0.012270361	0.050787177
ENSMUSG00000031819	1701.402976	-0.312473468	0.119051835	-2.624684182	0.008672937	0.038737266
ENSMUSG00000038615	6697.327346	-0.312346381	0.122486258	-2.550052444	0.010770672	0.045976533
ENSMUSG00000020888	2296.309706	-0.312052417	0.118506375	-2.633212064	0.008458152	0.038016516
ENSMUSG00000005481	7765.024384	-0.311592586	0.09613212	-3.24129528	0.001189879	0.007658148
ENSMUSG00000022231	13672.32531	-0.311565209	0.118201407	-2.635884102	0.008391839	0.037776827
ENSMUSG00000041147	3162.196407	-0.311378693	0.142251174	-2.188935841	0.028601504	0.098737172
ENSMUSG00000099966	405.9901205	-0.311308299	0.150313368	-2.071061966	0.038353006	0.123993966
ENSMUSG00000026816	2035.443234	-0.31118211	0.103933716	-2.994043923	0.002753063	0.015345179
ENSMUSG00000023932	6630.043063	-0.311093077	0.12363971	-2.516125897	0.011865279	0.049536602
ENSMUSG00000038145	2204.876458	-0.310891445	0.118303252	-2.627919699	0.008590879	0.038509588
ENSMUSG00000030432	48534.15426	-0.310697199	0.120292873	-2.582839613	0.009799087	0.042673195
ENSMUSG00000046352	1970.993828	-0.310377323	0.127529674	-2.433765519	0.014942671	0.059421633

ENSMUSG00000042389	868.1438597	-0.310376402	0.123773308	-2.507619834	0.012154736	0.050439666
ENSMUSG00000035781	2427.745082	-0.310214265	0.098832978	-3.138772829	0.001696569	0.010278508
ENSMUSG00000091811	780.739204	-0.309961537	0.155822266	-1.989194241	0.046679767	0.143815826
ENSMUSG00000019214	2338.028819	-0.309802368	0.130424024	-2.375347403	0.01753244	0.06719212
ENSMUSG00000027374	3349.819568	-0.309576209	0.109249252	-2.83366891	0.004601698	0.023170574
ENSMUSG00000050379	1532.588003	-0.309119435	0.146380761	-2.111749058	0.034707979	0.114704006
ENSMUSG00000071660	2506.956947	-0.308962054	0.136026629	-2.271335073	0.023126702	0.083681662
ENSMUSG00000027883	6288.105941	-0.30878197	0.111792234	-2.762105718	0.005742988	0.027765355
ENSMUSG00000001672	3161.155089	-0.308543343	0.105534114	-2.923636081	0.00345969	0.018400796
ENSMUSG00000028882	2907.285252	-0.308276863	0.129856753	-2.373976371	0.017597677	0.067372667
ENSMUSG00000031453	5016.160672	-0.308117408	0.108629341	-2.836410529	0.004562376	0.022993344
ENSMUSG00000020315	44436.64148	-0.307827541	0.129060791	-2.385136023	0.017072807	0.065803781
ENSMUSG00000032187	32762.05494	-0.307673361	0.118035026	-2.606627643	0.009143874	0.0404518
ENSMUSG00000032754	396.2481992	-0.307603969	0.15097467	-2.037454157	0.041604551	0.131967441
ENSMUSG00000034109	4434.445294	-0.307182828	0.095992891	-3.200058106	0.001373999	0.008621406
ENSMUSG00000046658	1098.149398	-0.306586438	0.129188339	-2.373174236	0.017635942	0.067484412
ENSMUSG00000040620	3919.139347	-0.306487127	0.127207522	-2.409347511	0.015981073	0.062536218
ENSMUSG00000028488	1555.790976	-0.306397768	0.124602006	-2.459011525	0.013932015	0.056275649
ENSMUSG00000025239	5174.316908	-0.306250624	0.122033815	-2.509555432	0.012088324	0.050238859
ENSMUSG00000020430	5878.089999	-0.306097152	0.116031221	-2.638058514	0.008338219	0.037596164
ENSMUSG00000026848	1838.631246	-0.305981712	0.119783842	-2.554448975	0.010635602	0.04551613
ENSMUSG0000002396	860.0789177	-0.305840342	0.155895118	-1.961833996	0.049781814	0.150656024
ENSMUSG00000018042	4855.546101	-0.305694916	0.131674078	-2.321602856	0.02025433	0.075206762
ENSMUSG00000037526	1066.487135	-0.305588077	0.113873528	-2.683574323	0.007283978	0.033708238
ENSMUSG00000022325	1141.433227	-0.305395866	0.15084878	-2.024516637	0.042917022	0.134886981
ENSMUSG00000032834	2557.275254	-0.304820609	0.139737563	-2.181379178	0.029155382	0.100168569
ENSMUSG00000020263	3706.726824	-0.304813154	0.132880629	-2.293887044	0.021796988	0.079818493
ENSMUSG00000038485	2219.367694	-0.304788951	0.117006626	-2.604886251	0.009190477	0.040625732
ENSMUSG00000037966	941.0325415	-0.303687313	0.122042936	-2.488364534	0.012833212	0.052589756

ENSMUSG00000030031	848.0525256	-0.303679719	0.130778329	-2.322095114	0.020227815	0.075133327
ENSMUSG00000040820	1302.139359	-0.303582622	0.108933923	-2.786851083	0.005322293	0.026103466
ENSMUSG00000034274	3403.567055	-0.303297643	0.112468236	-2.696740477	0.007002182	0.032627592
ENSMUSG00000061666	2181.379253	-0.302855039	0.115238169	-2.628079235	0.008586851	0.03849927
ENSMUSG00000046432	991.0216847	-0.302728941	0.136005645	-2.2258557	0.026023849	0.091843305
ENSMUSG00000000738	5482.06481	-0.302653945	0.111532954	-2.713583157	0.006655986	0.031308826
ENSMUSG00000020898	4466.568851	-0.302468537	0.1397076	-2.165011332	0.030386817	0.103285538
ENSMUSG00000041164	8805.108464	-0.302366458	0.092421445	-3.271604973	0.001069389	0.007037014
ENSMUSG00000004462	1133.084432	-0.302224156	0.138082356	-2.188723919	0.028616912	0.09875979
ENSMUSG00000078193	723.5102073	-0.302135258	0.130689858	-2.311849307	0.020785989	0.076835462
ENSMUSG00000016619	6078.856338	-0.301994556	0.133926655	-2.254924959	0.024138039	0.086585558
ENSMUSG00000001436	2983.926211	-0.301924682	0.144344445	-2.091695811	0.036465735	0.119345813
ENSMUSG00000023972	1821.39311	-0.30184684	0.115434576	-2.614873715	0.008926045	0.039669138
ENSMUSG00000029101	2676.985264	-0.301366497	0.133198731	-2.2625328	0.023664505	0.08522967
ENSMUSG00000041870	8105.639485	-0.301123267	0.108536882	-2.774386578	0.005530592	0.026947285
ENSMUSG00000038827	1316.042212	-0.300725831	0.151290599	-1.987736401	0.046840851	0.144201796
ENSMUSG00000090035	4585.165536	-0.300652508	0.118950259	-2.527548162	0.011486207	0.048312693
ENSMUSG00000028007	4443.133978	-0.300495741	0.114960167	-2.613911845	0.008951213	0.039755507
ENSMUSG00000024816	1888.935026	-0.300147944	0.125821618	-2.385503765	0.017055748	0.065749392
ENSMUSG00000040785	8008.496651	-0.300091994	0.128528824	-2.334822531	0.019552694	0.07308827
ENSMUSG00000037339	3030.518494	-0.299485907	0.09664871	-3.09870568	0.00194368	0.011515943
ENSMUSG00000024248	9970.386003	-0.299112138	0.108125228	-2.766349217	0.005668779	0.027472362
ENSMUSG00000025228	5368.218014	-0.298589444	0.108166872	-2.760451881	0.005772146	0.02787893
ENSMUSG00000047030	2488.732036	-0.298335683	0.112652779	-2.648276274	0.008090338	0.03667872
ENSMUSG00000046312	2914.043642	-0.29815396	0.129711344	-2.298595861	0.021527899	0.079040776
ENSMUSG00000021482	1990.627099	-0.298114075	0.117503436	-2.537066884	0.011178559	0.047322144
ENSMUSG00000033216	2017.574776	-0.298095141	0.10879629	-2.73993848	0.006145069	0.02928856
ENSMUSG00000028689	799.3370181	-0.29805825	0.133428785	-2.233837697	0.025493754	0.090401687
ENSMUSG00000026202	5686.252833	-0.297993006	0.130606214	-2.281614315	0.022512121	0.081912678

ENSMUSG00000066278	1300.309573	-0.29790287	0.117045147	-2.545196243	0.010921634	0.046508184
ENSMUSG00000027957	5759.516245	-0.297859218	0.099259588	-3.000810539	0.00269262	0.015072321
ENSMUSG00000015776	2208.435232	-0.297108916	0.130839108	-2.270795947	0.023159333	0.083761968
ENSMUSG00000034121	943.2374097	-0.297042432	0.133115683	-2.231460827	0.02565062	0.090813536
ENSMUSG00000081534	795.337168	-0.296810752	0.1201313	-2.470719547	0.013484152	0.054734269
ENSMUSG00000027498	2237.998104	-0.296432602	0.130949001	-2.26372557	0.023590999	0.085019855
ENSMUSG00000027300	805.9015813	-0.296302321	0.123635795	-2.396573905	0.016549156	0.064184821
ENSMUSG00000020482	2474.161841	-0.296064583	0.119232776	-2.483080525	0.013025164	0.053268693
ENSMUSG00000070738	8636.673139	-0.295773673	0.105951805	-2.791586918	0.005245027	0.025815348
ENSMUSG00000026377	2635.368816	-0.295616164	0.135745864	-2.177717655	0.029427064	0.100915416
ENSMUSG00000018921	3712.546962	-0.295507772	0.123563172	-2.391552167	0.0167773	0.064871779
ENSMUSG00000037275	5620.256931	-0.295301349	0.137336422	-2.150204189	0.031539067	0.106487923
ENSMUSG00000023921	2127.927939	-0.294707589	0.147670703	-1.995707894	0.045965727	0.142096158
ENSMUSG00000054065	4304.980646	-0.294405612	0.104792802	-2.809406805	0.004963289	0.024708481
ENSMUSG00000026664	4065.059459	-0.294309571	0.102889561	-2.860441494	0.004230516	0.02164124
ENSMUSG00000026269	5833.389078	-0.294147765	0.103264756	-2.848481672	0.004392838	0.022309997
ENSMUSG00000016933	3492.989065	-0.293982606	0.122521614	-2.399434658	0.01642041	0.063833726
ENSMUSG00000059409	5035.947182	-0.293977753	0.108282751	-2.714908427	0.00662941	0.031216738
ENSMUSG00000028495	40184.63947	-0.293898234	0.117212343	-2.507400055	0.012162297	0.050458791
ENSMUSG00000024921	8943.006274	-0.293862682	0.140477334	-2.091886814	0.036448642	0.119313094
ENSMUSG00000041168	10453.72892	-0.293758937	0.095457295	-3.077385952	0.002088247	0.0121911
ENSMUSG00000040616	2158.398247	-0.293520607	0.108397014	-2.707829266	0.006772485	0.031796462
ENSMUSG00000013593	18115.63358	-0.293073291	0.10032687	-2.921184426	0.003487033	0.01851091
ENSMUSG00000026181	1066.617017	-0.293033212	0.138729093	-2.112269351	0.034663353	0.114622472
ENSMUSG00000020460	44363.72428	-0.292537604	0.115243189	-2.538437261	0.011134877	0.047183142
ENSMUSG00000040712	5065.808041	-0.292267502	0.100706029	-2.902184768	0.003705699	0.019408359
ENSMUSG00000049728	1314.197631	-0.291752788	0.113327807	-2.574414834	0.01004098	0.043522624
ENSMUSG00000044452	3598.400799	-0.291607099	0.129036873	-2.25987419	0.02382906	0.085725419
ENSMUSG00000001420	1511.624022	-0.291591719	0.121591175	-2.398132252	0.016478914	0.063934632

ENSMUSG00000021595	11601.92501	-0.29149295	0.121510849	-2.398904728	0.016444193	0.063855465
ENSMUSG00000001909	6976.537141	-0.291331808	0.102126182	-2.852665219	0.004335427	0.022063979
ENSMUSG00000039804	3580.908519	-0.291286292	0.116172767	-2.507354356	0.01216387	0.050458791
ENSMUSG00000025371	2124.739071	-0.291172612	0.102492483	-2.840916742	0.004498405	0.022732595
ENSMUSG00000030744	44808.33605	-0.290929895	0.116884052	-2.489046955	0.012808605	0.052516734
ENSMUSG00000026135	2208.64451	-0.290879861	0.125818344	-2.311903421	0.020783006	0.076835462
ENSMUSG00000033047	12697.46083	-0.290574566	0.104781483	-2.773148055	0.005551686	0.027018352
ENSMUSG00000050410	1509.451908	-0.290453867	0.135961021	-2.136302482	0.032654767	0.109690308
ENSMUSG00000020917	11989.87189	-0.290278929	0.096021053	-3.023075861	0.002502195	0.014169998
ENSMUSG00000032527	3535.7603	-0.290278495	0.136715142	-2.123235878	0.033734091	0.112200442
ENSMUSG00000032705	1662.889306	-0.290271114	0.111468447	-2.604065303	0.00921252	0.040665338
ENSMUSG00000018405	1105.740013	-0.290124549	0.126216852	-2.298619746	0.021526541	0.079040776
ENSMUSG00000020549	2952.98163	-0.290058341	0.12033254	-2.410473024	0.015931849	0.062365486
ENSMUSG00000045237	634.7839523	-0.289914758	0.140497336	-2.063489363	0.039066157	0.125852207
ENSMUSG00000029578	6148.671252	-0.289835553	0.104953732	-2.761555475	0.005752674	0.027798568
ENSMUSG00000003344	4244.339057	-0.289569742	0.122473381	-2.364348404	0.018061818	0.068818827
ENSMUSG00000021983	3643.294389	-0.289546494	0.104427351	-2.772707453	0.005559207	0.027026905
ENSMUSG00000033589	3415.845951	-0.289543277	0.097850299	-2.95904337	0.003085957	0.016821512
ENSMUSG00000042207	4931.943242	-0.289534702	0.108936682	-2.657825594	0.007864658	0.035845032
ENSMUSG00000038279	6497.968895	-0.289056579	0.146742066	-1.969827646	0.048858127	0.148748818
ENSMUSG00000019854	2002.680104	-0.289022172	0.117309089	-2.46376624	0.013748574	0.055696087
ENSMUSG00000027618	2991.882304	-0.288796714	0.104875217	-2.75371743	0.005892262	0.028296931
ENSMUSG00000020075	16724.54567	-0.288780832	0.13556418	-2.130214873	0.033153878	0.110849269
ENSMUSG00000048429	2228.548472	-0.288466674	0.113241084	-2.547367649	0.010853902	0.046299323
ENSMUSG00000029173	2329.79622	-0.288254174	0.141790429	-2.032959316	0.042056633	0.132904206
ENSMUSG00000063334	2605.048006	-0.287743569	0.14098564	-2.040942384	0.041256554	0.131119056
ENSMUSG00000035206	2562.209087	-0.287583471	0.111992607	-2.567879075	0.010232284	0.04417154
ENSMUSG00000020755	2726.317825	-0.287442316	0.102315053	-2.809384435	0.004963634	0.024708481
ENSMUSG00000016757	2056.790132	-0.287331764	0.112831217	-2.546562651	0.010878968	0.046379635



ENSMUSG00000009863	9286.609657	-0.287181755	0.09004474	-3.189322947	0.001426065	0.008893364
ENSMUSG00000015659	628.0079242	-0.287153351	0.13007415	-2.207612751	0.027271279	0.09525087
ENSMUSG00000026578	667.646567	-0.286823383	0.137466851	-2.086491268	0.036934145	0.120296243
ENSMUSG00000034194	1061.246114	-0.286711172	0.140961581	-2.033966767	0.041954946	0.132714504
ENSMUSG00000056209	2257.863766	-0.2866293	0.106685584	-2.686673199	0.007216752	0.033417938
ENSMUSG00000037355	1701.221477	-0.286624881	0.121699189	-2.355191386	0.018513168	0.070119252
ENSMUSG00000024273	475.1872194	-0.286520691	0.137413284	-2.085101837	0.037060058	0.120495166
ENSMUSG00000033257	6259.025038	-0.286429277	0.132563133	-2.160700865	0.030718454	0.104222158
ENSMUSG00000031754	2972.854233	-0.285934676	0.116853031	-2.446959863	0.014406688	0.05775365
ENSMUSG00000021975	2660.738778	-0.285918337	0.135058002	-2.117004045	0.034259504	0.113625998
ENSMUSG00000067150	5821.708421	-0.285843509	0.139080002	-2.055245215	0.039855326	0.127721458
ENSMUSG00000022895	20133.86786	-0.285794103	0.104607153	-2.732070381	0.006293769	0.029901439
ENSMUSG00000028405	6805.643115	-0.285778729	0.116381664	-2.455530522	0.014067681	0.056700406
ENSMUSG00000040725	22910.15742	-0.285573434	0.091365166	-3.125627054	0.001774264	0.010650163
ENSMUSG00000041815	6574.998646	-0.285193598	0.112063754	-2.544922767	0.010930191	0.046535737
ENSMUSG00000027628	1303.969192	-0.284930122	0.129698079	-2.196872343	0.028029565	0.097214202
ENSMUSG00000052337	11654.52089	-0.283986892	0.113731718	-2.496989366	0.012525271	0.051564718
ENSMUSG00000037415	3362.436246	-0.283856228	0.102351887	-2.773336539	0.005548471	0.027015798
ENSMUSG00000068740	3063.524983	-0.283670761	0.114436723	-2.478843805	0.013180901	0.053757732
ENSMUSG00000015697	6794.284612	-0.283177696	0.107797696	-2.626936456	0.008615742	0.038582262
ENSMUSG00000011114	5349.678047	-0.28316111	0.094600796	-2.993221204	0.002760496	0.015371241
ENSMUSG00000029103	3255.123379	-0.283049399	0.112450155	-2.517109907	0.011832191	0.049423056
ENSMUSG00000030738	28399.54332	-0.282982444	0.117647564	-2.405340443	0.016157406	0.063060257
ENSMUSG00000071477	2283.161489	-0.282624923	0.11561451	-2.444545444	0.014503481	0.058079031
ENSMUSG00000041133	14389.78423	-0.282589359	0.122263899	-2.311306619	0.020815925	0.076933367
ENSMUSG00000032782	3281.887684	-0.282492377	0.117031289	-2.413819242	0.015786292	0.061958834
ENSMUSG00000038780	2437.751659	-0.282434668	0.101462339	-2.783640412	0.005375259	0.026328668
ENSMUSG00000027170	6485.139919	-0.28214288	0.103683966	-2.72118141	0.006504905	0.030706722
ENSMUSG00000088185	54542.82391	-0.282080548	0.120760024	-2.335876887	0.019497659	0.07290699

ENSMUSG00000048277	5987.230178	-0.281998398	0.123772104	-2.27836798	0.022704663	0.082389493
ENSMUSG00000027889	6215.491491	-0.281826139	0.110682129	-2.546265971	0.010888219	0.04641016
ENSMUSG00000040383	6817.252039	-0.281699071	0.117180524	-2.403975172	0.016217875	0.063207764
ENSMUSG00000025077	1871.235495	-0.281667652	0.133317433	-2.112759341	0.034621371	0.114519609
ENSMUSG00000074918	1800.656289	-0.281210845	0.14208295	-1.979201898	0.047793279	0.146246765
ENSMUSG00000061838	8806.594439	-0.280671313	0.101417511	-2.767483745	0.005649086	0.027392971
ENSMUSG00000071281	733.6501134	-0.280623711	0.136144158	-2.061224768	0.039281602	0.126336746
ENSMUSG00000042377	3330.021143	-0.280471477	0.11983841	-2.340413874	0.019262381	0.072366973
ENSMUSG00000040532	5241.865667	-0.280378378	0.10009865	-2.801020588	0.005094127	0.025217342
ENSMUSG00000048327	2789.56006	-0.280344184	0.132239871	-2.119967168	0.034008814	0.112950807
ENSMUSG00000028906	11330.56849	-0.280264115	0.10702756	-2.618616312	0.008828719	0.039330655
ENSMUSG00000045128	58689.58297	-0.279882917	0.123516087	-2.265963283	0.023453631	0.084653334
ENSMUSG00000018428	6861.751824	-0.279672035	0.122736738	-2.278633439	0.022688864	0.082367633
ENSMUSG00000030811	5284.72731	-0.279288528	0.096185576	-2.90364251	0.003688491	0.019331852
ENSMUSG00000047824	2751.454857	-0.279158321	0.122386494	-2.280956928	0.022550996	0.082027362
ENSMUSG00000003868	6029.598134	-0.279144996	0.105317025	-2.650521095	0.008036771	0.036480364
ENSMUSG00000031562	1608.52241	-0.27900788	0.117448265	-2.37558112	0.017521341	0.067161124
ENSMUSG00000034127	9108.453674	-0.27883335	0.125345364	-2.224520643	0.026113435	0.092086609
ENSMUSG00000024247	3205.520548	-0.278690986	0.126307152	-2.206454513	0.027352192	0.095384086
ENSMUSG00000063052	1671.655083	-0.278474345	0.130550231	-2.133081978	0.032918002	0.110308694
ENSMUSG00000033526	5654.41623	-0.278343178	0.104119601	-2.673302388	0.007510851	0.034550226
ENSMUSG00000041037	1633.494322	-0.278009103	0.108335066	-2.566196842	0.010282046	0.044326292
ENSMUSG00000025453	7023.542007	-0.277944233	0.118581884	-2.343901317	0.01908322	0.071851238
ENSMUSG00000050947	1021.616446	-0.27746155	0.13956961	-1.98797969	0.046813936	0.144138837
ENSMUSG00000038256	4809.650696	-0.277444311	0.095818714	-2.895512779	0.003785396	0.019734433
ENSMUSG00000046185	1175.183031	-0.277137414	0.140093556	-1.978230991	0.047902654	0.146479787
ENSMUSG00000005609	5248.115391	-0.277015744	0.115197108	-2.404710925	0.016185263	0.06312479
ENSMUSG00000024740	24844.52153	-0.276802411	0.109901289	-2.518645713	0.011780713	0.049254157
ENSMUSG00000022680	13206.43454	-0.276062311	0.112213388	-2.46015485	0.013887708	0.056106844

ENSMUSG00000028973	3657.804479	-0.276015263	0.113958336	-2.422071721	0.015432304	0.060928237
ENSMUSG00000021039	5249.644005	-0.275830449	0.101070454	-2.729090826	0.006350921	0.030121626
ENSMUSG00000030816	8084.190289	-0.275720986	0.096516002	-2.856738578	0.004280182	0.021832649
ENSMUSG00000000811	1000.928443	-0.275552755	0.122271559	-2.253612835	0.024220535	0.086825616
ENSMUSG00000013150	1365.530027	-0.275415226	0.138670168	-1.986117345	0.047020296	0.144604213
ENSMUSG00000031730	1536.695406	-0.27477948	0.112090643	-2.451404261	0.014230004	0.057240857
ENSMUSG00000014748	2823.865403	-0.274675936	0.113330915	-2.423662913	0.01536486	0.060689292
ENSMUSG00000018040	3731.569293	-0.274472728	0.105387401	-2.604416896	0.009203074	0.040665338
ENSMUSG00000026932	2160.128556	-0.274197705	0.124817136	-2.196795361	0.028035065	0.097218158
ENSMUSG00000023072	3549.723711	-0.273909612	0.108865479	-2.516037363	0.01186826	0.049536602
ENSMUSG00000024006	6388.684118	-0.273824541	0.121350698	-2.256472738	0.024041041	0.086320923
ENSMUSG00000038533	2947.448494	-0.273600262	0.113497269	-2.410632996	0.015924864	0.062360034
ENSMUSG00000008999	1378.991594	-0.273592428	0.125011027	-2.188546354	0.028629829	0.09878436
ENSMUSG00000022671	903.0783776	-0.273585678	0.115592167	-2.366818477	0.01794173	0.068443128
ENSMUSG00000018661	5144.041667	-0.273470328	0.096693502	-2.82821826	0.004680788	0.023494544
ENSMUSG00000024359	27765.77006	-0.273448376	0.121935797	-2.242560296	0.024925183	0.088823347
ENSMUSG00000032737	10620.73534	-0.273329399	0.098028771	-2.788256903	0.00529925	0.026024663
ENSMUSG00000053293	7670.349232	-0.273243036	0.113469305	-2.408078882	0.016036716	0.062687957
ENSMUSG00000056692	7125.925695	-0.272816214	0.111717056	-2.442028315	0.014605001	0.058374481
ENSMUSG00000018932	4163.664049	-0.272300315	0.095196443	-2.860404293	0.004231012	0.02164124
ENSMUSG00000033961	790.5670654	-0.272200296	0.134075591	-2.030200223	0.042336191	0.133489816
ENSMUSG00000024580	2774.316241	-0.272022469	0.104541766	-2.602045866	0.009266946	0.040850397
ENSMUSG00000039231	3986.262089	-0.271927703	0.122636933	-2.217339401	0.026599907	0.093565384
ENSMUSG00000027367	9717.161497	-0.27182787	0.101330294	-2.682592345	0.007305398	0.033800349
ENSMUSG00000056076	27533.62989	-0.271268093	0.120448333	-2.252153155	0.024312595	0.086987836
ENSMUSG00000017858	1863.716337	-0.271200593	0.122712247	-2.210053195	0.027101471	0.094878822
ENSMUSG00000009621	4311.182338	-0.27081258	0.096472186	-2.807157069	0.004998086	0.024819865
ENSMUSG00000060679	3109.856098	-0.270338534	0.109752393	-2.463167568	0.013771554	0.055770458
ENSMUSG00000014426	6839.267105	-0.270224638	0.112615515	-2.399532935	0.016416003	0.063833726

ENSMUSG00000043140	1687.715057	-0.270075688	0.128434365	-2.10283041	0.035480597	0.11663514
ENSMUSG00000058291	1464.114641	-0.270048947	0.130739544	-2.065549102	0.038871075	0.125341792
ENSMUSG00000027487	878.2071338	-0.269822607	0.121289585	-2.224614801	0.026107108	0.092078858
ENSMUSG00000018481	5450.291369	-0.269418914	0.108872107	-2.474636731	0.013337176	0.054247688
ENSMUSG00000031887	1297.075962	-0.269417511	0.115790879	-2.326759346	0.019978077	0.074366734
ENSMUSG00000019143	2181.306607	-0.269256562	0.11886802	-2.265172436	0.0235021	0.084763099
ENSMUSG00000026127	3752.380952	-0.269171817	0.108002472	-2.492274596	0.012692787	0.052138853
ENSMUSG00000024271	3954.210841	-0.268563807	0.102273345	-2.625941369	0.00864097	0.038656424
ENSMUSG00000068284	6196.243442	-0.268509624	0.126130798	-2.128818884	0.033269248	0.111109309
ENSMUSG00000033009	1700.405123	-0.268484882	0.136668091	-1.964503061	0.049471782	0.149982355
ENSMUSG00000025821	3407.35237	-0.268089322	0.108130186	-2.479319887	0.013163319	0.053695845
ENSMUSG00000017999	5682.540205	-0.267980003	0.106228487	-2.522675509	0.011646582	0.048793991
ENSMUSG00000065979	4014.787381	-0.267853418	0.107235703	-2.49780074	0.012496642	0.05148487
ENSMUSG00000024579	927.0754866	-0.267801403	0.118735849	-2.255438485	0.024105819	0.086525652
ENSMUSG00000041346	1376.348417	-0.267700245	0.10838284	-2.469950459	0.013513176	0.054802209
ENSMUSG00000037070	3259.613116	-0.26765419	0.134354288	-1.992152193	0.046354362	0.142991337
ENSMUSG00000001089	6453.624625	-0.26756729	0.136069678	-1.966399084	0.049252529	0.149541273
ENSMUSG00000029036	12582.85466	-0.267371675	0.106917994	-2.500717293	0.012394207	0.051147894
ENSMUSG00000052934	1851.404843	-0.267334644	0.124146343	-2.153383154	0.031288578	0.105786323
ENSMUSG00000068394	4166.473313	-0.26724034	0.121725873	-2.195427597	0.028132939	0.097466627
ENSMUSG00000030942	3873.281241	-0.267078064	0.128804608	-2.073513273	0.038124537	0.123344742
ENSMUSG00000031388	1689.894783	-0.266538233	0.135177556	-1.971763966	0.048636558	0.148155152
ENSMUSG00000059070	48347.15909	-0.266270847	0.119827679	-2.222114691	0.026275556	0.092570485
ENSMUSG00000030884	13150.20667	-0.266090047	0.108813845	-2.445369404	0.014470384	0.05797773
ENSMUSG00000033365	2279.85341	-0.265944909	0.125141756	-2.125149244	0.033574162	0.111866406
ENSMUSG00000025645	900.6015273	-0.265538712	0.127059203	-2.089881767	0.036628422	0.11956571
ENSMUSG00000020802	2098.364141	-0.265304042	0.111658021	-2.37604106	0.017499515	0.067112071
ENSMUSG00000031328	4441.100321	-0.265150754	0.116108466	-2.283647035	0.022392283	0.081583125
ENSMUSG00000003134	1640.268172	-0.264976859	0.113633698	-2.331851053	0.019708528	0.073584445

ENSMUSG00000075227	1076.834343	-0.264903974	0.110450616	-2.398392907	0.016467191	0.063900266
ENSMUSG00000005299	6801.834363	-0.264837415	0.098983039	-2.675583796	0.007459922	0.03437267
ENSMUSG00000042015	1675.787616	-0.264629498	0.120084157	-2.203700346	0.027545425	0.095892994
ENSMUSG00000038141	1378.246528	-0.264609603	0.115837898	-2.284309433	0.022353352	0.081481219
ENSMUSG00000001034	1173.160815	-0.264468352	0.132425719	-1.997107167	0.045813543	0.141817877
ENSMUSG00000029319	4108.784882	-0.26420723	0.122242644	-2.161334385	0.030669519	0.104135343
ENSMUSG00000032178	8978.58145	-0.264161737	0.10058075	-2.626364756	0.008630228	0.038639373
ENSMUSG00000058979	1193.848959	-0.263945195	0.118287468	-2.231387641	0.025655463	0.090816266
ENSMUSG00000024824	1277.369382	-0.26384755	0.117690461	-2.241877097	0.024969317	0.088960864
ENSMUSG00000027425	3956.656664	-0.263738225	0.13063876	-2.018835951	0.043504273	0.136281612
ENSMUSG00000005683	18386.17512	-0.263726703	0.100308602	-2.629153398	0.008559774	0.03840103
ENSMUSG00000034659	1334.881893	-0.262807035	0.118538736	-2.217056168	0.026619254	0.093603906
ENSMUSG00000020547	8006.892872	-0.262601857	0.120471968	-2.17977561	0.029274099	0.100483558
ENSMUSG00000029345	3452.618343	-0.262439539	0.102683372	-2.555813399	0.010593991	0.045372883
ENSMUSG00000029577	8613.912696	-0.262383283	0.104427449	-2.512589223	0.011984879	0.04991126
ENSMUSG00000026566	3956.061853	-0.262278	0.101593	-2.581654247	0.009832804	0.042786607
ENSMUSG00000027076	1148.039263	-0.262183039	0.129418326	-2.025857138	0.042779427	0.134597065
ENSMUSG00000028085	1333.605351	-0.262164687	0.125973434	-2.081110912	0.037423755	0.121482848
ENSMUSG00000021948	6172.773477	-0.262159868	0.11496561	-2.280332953	0.022587949	0.082108206
ENSMUSG00000048445	1235.835678	-0.261993925	0.130018136	-2.015056767	0.043898701	0.137208822
ENSMUSG00000028106	6829.909867	-0.26169752	0.110761323	-2.362715733	0.018141579	0.069048119
ENSMUSG00000030610	783.8931644	-0.261479728	0.125204399	-2.088422858	0.036759707	0.119955843
ENSMUSG00000026275	2960.681818	-0.261343125	0.132753695	-1.968631646	0.048995406	0.148937758
ENSMUSG00000025736	1573.118161	-0.261240129	0.131569434	-1.985568547	0.047081252	0.144697324
ENSMUSG00000024127	2411.286671	-0.260881588	0.114504814	-2.278346029	0.022705969	0.082389493
ENSMUSG00000038459	4059.437397	-0.26067075	0.11025404	-2.364273905	0.018065451	0.068820911
ENSMUSG00000046761	4009.309206	-0.260263285	0.106583136	-2.441880541	0.01461098	0.058383708
ENSMUSG00000032077	1278.545235	-0.260028754	0.1203131	-2.16126718	0.030674707	0.104137103
ENSMUSG00000032078	4002.424518	-0.259836632	0.109956506	-2.363085561	0.018123485	0.069018414

ENSMUSG00000026197	965.4553878	-0.259109948	0.131622179	-1.96858881	0.049000329	0.148937758
ENSMUSG00000043183	3109.499458	-0.258814403	0.102193115	-2.532601181	0.011321969	0.047802201
ENSMUSG00000004895	4054.335033	-0.25878503	0.107356173	-2.410527724	0.015929461	0.062365486
ENSMUSG00000030189	14286.05469	-0.258688194	0.113811214	-2.272958749	0.023028666	0.083387309
ENSMUSG00000005936	2422.449747	-0.258604076	0.114858113	-2.251509013	0.024353317	0.087119557
ENSMUSG00000031774	2330.321367	-0.258583278	0.105053465	-2.461444546	0.013837879	0.055953512
ENSMUSG00000027610	4397.870609	-0.258244188	0.116566411	-2.215425408	0.026730879	0.093907582
ENSMUSG00000015942	1577.704213	-0.258192578	0.119193492	-2.166163385	0.030298704	0.10303315
ENSMUSG00000041926	13342.47078	-0.257654414	0.09977031	-2.58247584	0.009809423	0.042701531
ENSMUSG00000060206	5244.296984	-0.257632305	0.12474925	-2.065201239	0.038903963	0.125429707
ENSMUSG00000021494	4002.285349	-0.257536104	0.0974497	-2.642759344	0.008223346	0.037183463
ENSMUSG00000013822	2432.9481	-0.257430229	0.108592307	-2.370612031	0.017758661	0.067849221
ENSMUSG00000070462	7111.739402	-0.257346405	0.101827772	-2.527271279	0.011495267	0.04832346
ENSMUSG00000028333	18677.40849	-0.257171424	0.106312074	-2.419023674	0.015562227	0.061284343
ENSMUSG00000070871	1675.847993	-0.256914206	0.108314755	-2.371922509	0.017695802	0.067643824
ENSMUSG00000079020	1429.452625	-0.256773152	0.111281649	-2.307416837	0.021031593	0.077550524
ENSMUSG00000050148	3073.781667	-0.256767551	0.105785764	-2.427241077	0.015214142	0.060200601
ENSMUSG00000021555	3648.865737	-0.25671478	0.105544691	-2.432285103	0.015003892	0.059569484
ENSMUSG00000000399	4881.148136	-0.256279621	0.117785528	-2.175815864	0.029569032	0.101153395
ENSMUSG00000034300	2875.717421	-0.256238157	0.108604232	-2.359375426	0.018305726	0.069498807
ENSMUSG00000038900	83432.56396	-0.255978192	0.119520173	-2.141715377	0.032216393	0.108364671
ENSMUSG00000015750	2543.118382	-0.255904999	0.115704145	-2.211718514	0.02698612	0.094610513
ENSMUSG00000029434	2671.37557	-0.255734722	0.11078067	-2.308477855	0.020972573	0.077384076
ENSMUSG00000015806	4354.577312	-0.255394829	0.106962801	-2.387697654	0.016954283	0.06543743
ENSMUSG00000027506	11723.92277	-0.25525947	0.106607413	-2.394387632	0.016648144	0.064477676
ENSMUSG00000044393	13148.28308	-0.255065308	0.108394338	-2.353123902	0.01861643	0.070401862
ENSMUSG00000039523	2693.39345	-0.254890199	0.102940561	-2.476091022	0.013282971	0.054094875
ENSMUSG00000004207	15003.43024	-0.25456538	0.103081123	-2.469563501	0.013527801	0.054851542
ENSMUSG00000030983	3332.481405	-0.254499596	0.114837636	-2.216168877	0.026679939	0.093758164

ENSMUSG00000038241	8222.676726	-0.25424441	0.108811812	-2.336551565	0.019462513	0.072859663
ENSMUSG00000028902	5027.159084	-0.254233715	0.118516771	-2.145128597	0.031942567	0.107687253
ENSMUSG00000001285	1375.482502	-0.253761998	0.122079556	-2.078660877	0.037648531	0.122088105
ENSMUSG000000061477	45117.8084	-0.253695351	0.10702303	-2.370474382	0.017765275	0.067851241
ENSMUSG00000002812	9403.623704	-0.25360259	0.094302892	-2.689234495	0.007161609	0.033222257
ENSMUSG00000025134	6549.35532	-0.253550233	0.104588814	-2.424257664	0.015339717	0.060611453
ENSMUSG00000020250	12456.35925	-0.252858422	0.107339637	-2.355685464	0.018488565	0.070061766
ENSMUSG00000022131	1058.945712	-0.252783719	0.11919514	-2.120755251	0.033942404	0.112792365
ENSMUSG00000056131	2225.481685	-0.252625427	0.118850261	-2.125577382	0.033538465	0.111799895
ENSMUSG00000079109	1229.806926	-0.252560346	0.118182161	-2.137042883	0.032594504	0.109525436
ENSMUSG00000040054	11759.01194	-0.252494446	0.115981706	-2.177019583	0.029479106	0.100969675
ENSMUSG00000056770	5620.25668	-0.252305393	0.101627598	-2.482646428	0.013041046	0.053323865
ENSMUSG00000035469	6232.371703	-0.251903688	0.119354212	-2.110555505	0.034810536	0.114991817
ENSMUSG00000040521	2131.596456	-0.251684002	0.113223528	-2.222894893	0.026222888	0.092414133
ENSMUSG00000029028	4648.490892	-0.251668697	0.121812442	-2.066034415	0.03882523	0.125248294
ENSMUSG00000019952	2480.834081	-0.251516504	0.1229322	-2.045977404	0.040758594	0.129850376
ENSMUSG00000023015	7712.036128	-0.251505996	0.126820272	-1.983168713	0.047348587	0.145310732
ENSMUSG00000025241	4882.180669	-0.251502104	0.124704507	-2.016784402	0.043718017	0.136796329
ENSMUSG00000029034	2761.416631	-0.251434759	0.119102513	-2.11107853	0.034765563	0.114877287
ENSMUSG00000020776	3306.194359	-0.251180082	0.114600339	-2.191791793	0.028394544	0.09822037
ENSMUSG00000014547	832.6963789	-0.251049331	0.124394211	-2.018175347	0.043573003	0.136461565
ENSMUSG00000021868	5284.967709	-0.250723528	0.127337567	-1.968967475	0.048956826	0.148907957
ENSMUSG00000068039	17730.6677	-0.250712544	0.122163101	-2.052277185	0.040142732	0.128439464
ENSMUSG00000053870	662.8000309	-0.250102757	0.126880247	-1.971171735	0.048704236	0.148300541
ENSMUSG00000032314	5894.687611	-0.250001254	0.122082884	-2.047799383	0.040579661	0.129447435
ENSMUSG00000031833	2641.571465	-0.249968539	0.102112446	-2.447973271	0.014366231	0.057653648
ENSMUSG00000024769	9103.933681	-0.249727043	0.103884276	-2.403896454	0.016221367	0.063210329
ENSMUSG00000028772	1751.154013	-0.249713499	0.123850115	-2.016255685	0.043773246	0.136931851
ENSMUSG00000042272	6273.897493	-0.249364161	0.121658907	-2.049699168	0.040393796	0.128983684

ENSMUSG00000030986	6171.957874	-0.249261603	0.097020092	-2.569175081	0.010194094	0.044032247
ENSMUSG00000024900	8523.644298	-0.248855759	0.10260989	-2.425260942	0.015297387	0.060497788
ENSMUSG00000025857	2031.478235	-0.248717661	0.114093777	-2.179940641	0.029261862	0.100457017
ENSMUSG00000027649	2657.186848	-0.248628952	0.105234852	-2.36261037	0.018146737	0.069048119
ENSMUSG00000022972	1377.961574	-0.248206538	0.118952934	-2.086594492	0.036924806	0.12028339
ENSMUSG00000025574	3802.399002	-0.248202423	0.099585222	-2.492362004	0.012689663	0.052135625
ENSMUSG00000028565	7308.291705	-0.247903784	0.099299993	-2.49651362	0.012542085	0.051614881
ENSMUSG00000063652	1177.33901	-0.247435622	0.118618164	-2.085984252	0.03698005	0.120349061
ENSMUSG00000052534	4757.840732	-0.246858872	0.124814993	-1.977798229	0.047951473	0.146557379
ENSMUSG00000016181	2052.977085	-0.246713261	0.12188166	-2.02420333	0.042949235	0.134959968
ENSMUSG00000042148	1929.024941	-0.246581886	0.120921546	-2.039188995	0.041431169	0.131524056
ENSMUSG00000023118	14609.42711	-0.246441089	0.096485385	-2.554180494	0.010643807	0.045533767
ENSMUSG00000003970	67909.91039	-0.246352269	0.103407884	-2.382335463	0.017203218	0.066203445
ENSMUSG00000024974	7987.915308	-0.246252659	0.114113693	-2.157958899	0.030931028	0.104831739
ENSMUSG00000034292	1341.320053	-0.24624027	0.122812645	-2.005007456	0.04496225	0.139808022
ENSMUSG00000025195	15472.11057	-0.24572657	0.113326133	-2.168313377	0.030134851	0.102648132
ENSMUSG00000005698	7325.970586	-0.245711969	0.09387902	-2.617325656	0.008862175	0.039456051
ENSMUSG00000061410	5078.194972	-0.245589065	0.120260822	-2.042136927	0.041137951	0.130858635
ENSMUSG00000036986	3302.817423	-0.24558477	0.107906918	-2.275894586	0.02285232	0.082866598
ENSMUSG00000021668	904.9693978	-0.245471314	0.125234591	-1.960091949	0.049985044	0.151045592
ENSMUSG00000020929	8103.714368	-0.245200491	0.104949312	-2.336370626	0.019471934	0.072859663
ENSMUSG00000009640	1319.271413	-0.245093723	0.123732947	-1.980828299	0.047610532	0.145866531
ENSMUSG00000020541	2205.93108	-0.244703119	0.107217286	-2.282310331	0.022471025	0.081809094
ENSMUSG00000035772	2408.076646	-0.244591939	0.11528204	-2.121682946	0.033864372	0.112566605
ENSMUSG00000017756	14032.95994	-0.24440747	0.095576438	-2.557193754	0.010552043	0.045245357
ENSMUSG00000052533	5708.572736	-0.244291414	0.118933907	-2.054009841	0.039974739	0.128010388
ENSMUSG00000003190	1196.130014	-0.244240177	0.110485006	-2.210618302	0.02706228	0.094773377
ENSMUSG00000019947	12430.48564	-0.243995348	0.102513511	-2.380128691	0.017306593	0.066528837
ENSMUSG00000003813	5749.936122	-0.24391449	0.119086525	-2.048212334	0.040539198	0.129375657



ENSMUSG00000003037	4123.373998	-0.243597527	0.111950293	-2.175943638	0.029559475	0.101136216
ENSMUSG000000039987	784.7051911	-0.243487384	0.123906904	-1.965083274	0.0494046	0.149829521
ENSMUSG000000038369	6979.754746	-0.243196571	0.118604837	-2.050477681	0.04031784	0.12885184
ENSMUSG000000042744	18298.9242	-0.243159093	0.111521609	-2.180376476	0.029229566	0.100392509
ENSMUSG000000029191	7957.353163	-0.242968371	0.116514759	-2.085301226	0.037041966	0.12048764
ENSMUSG000000055044	10652.15064	-0.242609123	0.091829842	-2.641942081	0.008243215	0.037235556
ENSMUSG000000026638	9194.106814	-0.242483503	0.109635772	-2.211718852	0.026986097	0.094610513
ENSMUSG000000024335	33402.69397	-0.242457319	0.112853184	-2.148431367	0.031679503	0.10688118
ENSMUSG000000039813	1031.999045	-0.24208391	0.118073824	-2.050275854	0.040337519	0.128877797
ENSMUSG000000022471	3549.36973	-0.241894584	0.117432868	-2.059854177	0.039412483	0.126687511
ENSMUSG000000071180	1448.537975	-0.241728181	0.113854798	-2.123126866	0.033743222	0.112214077
ENSMUSG000000059878	2509.550592	-0.241667094	0.118928444	-2.032037799	0.042149829	0.133083292
ENSMUSG000000041130	6793.709545	-0.24137014	0.09300097	-2.595350788	0.009449442	0.041490847
ENSMUSG000000011179	10402.07563	-0.240764526	0.097107088	-2.479371297	0.013161422	0.053695845
ENSMUSG000000029730	10714.061	-0.240598718	0.109357486	-2.200112008	0.027798949	0.096564543
ENSMUSG000000022544	1460.033899	-0.240411062	0.112717915	-2.13285583	0.032936555	0.110337706
ENSMUSG000000025158	1856.35507	-0.239890083	0.112739847	-2.12781983	0.033352025	0.111278202
ENSMUSG000000026283	2376.699298	-0.239800521	0.11754769	-2.040027513	0.041347586	0.131363815
ENSMUSG000000051768	2988.620343	-0.239339602	0.09852541	-2.429216995	0.015131473	0.059926652
ENSMUSG000000019961	22104.05347	-0.238972731	0.121174247	-1.972141249	0.048593484	0.148064393
ENSMUSG000000026657	1816.322163	-0.238844486	0.116900679	-2.043140288	0.041038553	0.130593716
ENSMUSG000000020740	3581.471559	-0.237955506	0.098267754	-2.421501433	0.01545654	0.060975818
ENSMUSG000000025362	54770.32564	-0.237829406	0.112718129	-2.109948143	0.034862823	0.115130433
ENSMUSG000000019470	3659.662104	-0.237701461	0.099797025	-2.381849173	0.017225951	0.066279492
ENSMUSG000000025153	32141.15375	-0.237594868	0.111833154	-2.124547683	0.033624373	0.111935684
ENSMUSG000000003345	6981.688374	-0.237153956	0.098766138	-2.401166647	0.016342892	0.06359498
ENSMUSG000000034354	6136.656031	-0.237015577	0.120143188	-1.972775819	0.048521109	0.147944936
ENSMUSG000000027933	6142.767016	-0.236834404	0.107233093	-2.208594356	0.027202868	0.095059944
ENSMUSG000000030301	2767.11265	-0.236668384	0.104758582	-2.259178945	0.023872256	0.085839274

ENSMUSG00000057788	2723.070296	-0.236024048	0.11891643	-1.984789215	0.047167928	0.1448887
ENSMUSG00000027546	7504.931569	-0.235339687	0.102593201	-2.293911144	0.021795603	0.079818493
ENSMUSG00000029467	20849.7311	-0.235313278	0.114688076	-2.051767588	0.040192255	0.128579468
ENSMUSG00000032571	3121.85674	-0.235240951	0.109338515	-2.151492089	0.03143738	0.106185924
ENSMUSG00000022791	3732.220536	-0.235142998	0.100465573	-2.340533102	0.019256231	0.07235606
ENSMUSG00000054648	1447.267336	-0.234624018	0.11644466	-2.014897193	0.043915422	0.137235169
ENSMUSG00000031540	11074.32781	-0.23447069	0.112117412	-2.091295957	0.036501542	0.119410428
ENSMUSG00000000916	1306.031437	-0.234288809	0.114991448	-2.037445502	0.041605418	0.131967441
ENSMUSG00000034931	5143.200909	-0.234265274	0.116879912	-2.00432453	0.045035308	0.14001567
ENSMUSG00000024050	6533.20435	-0.233870024	0.097900321	-2.388858588	0.016900806	0.065276217
ENSMUSG00000032536	17245.82265	-0.233594982	0.113239389	-2.06284212	0.039127631	0.125960813
ENSMUSG00000036686	3949.970127	-0.233051814	0.104370856	-2.232920398	0.025554194	0.090544024
ENSMUSG00000060938	42833.19993	-0.232842558	0.106241212	-2.191640636	0.028405465	0.09824291
ENSMUSG00000024590	14286.0557	-0.232498461	0.101655097	-2.287130375	0.022188214	0.080932183
ENSMUSG00000022191	6903.558967	-0.231716084	0.112507524	-2.059560788	0.039440548	0.126720021
ENSMUSG00000020372	79542.80522	-0.231309987	0.106674439	-2.168373123	0.030130309	0.102648132
ENSMUSG00000021716	1511.862403	-0.231051187	0.111710815	-2.06829738	0.038612068	0.124704957
ENSMUSG00000022234	18368.22897	-0.230590484	0.105822742	-2.179025787	0.029329753	0.100643609
ENSMUSG00000036023	3640.32458	-0.230269872	0.101850484	-2.260861833	0.023767814	0.085574108
ENSMUSG00000035632	7910.049192	-0.230080132	0.100361133	-2.292522274	0.021875524	0.080014114
ENSMUSG00000014195	8539.337545	-0.229273581	0.090769576	-2.525885774	0.0115407	0.048468766
ENSMUSG00000020918	5069.171787	-0.228912377	0.114426621	-2.000516792	0.045444488	0.14095376
ENSMUSG00000026798	999.4850987	-0.228890702	0.115417877	-1.983147735	0.04735093	0.145310732
ENSMUSG00000019370	17000.51085	-0.22856515	0.098333417	-2.324389389	0.020104634	0.074775423
ENSMUSG00000038970	8759.662867	-0.228231499	0.112646563	-2.026084876	0.042756088	0.134542615
ENSMUSG00000039850	1971.378273	-0.226441956	0.112281791	-2.016729117	0.04372379	0.136796329
ENSMUSG00000049739	6380.003136	-0.226392988	0.103655851	-2.184083048	0.028956146	0.099622187
ENSMUSG00000010054	1739.388402	-0.226158951	0.103224172	-2.190949523	0.028455445	0.098351621
ENSMUSG00000060733	6087.003221	-0.225809815	0.103202557	-2.188025387	0.028667753	0.09884347

ENSMUSG00000030400	3681.840005	-0.225420036	0.10282961	-2.192170477	0.028367199	0.098175639
ENSMUSG00000019188	5348.002891	-0.22446357	0.110512081	-2.031122459	0.042242574	0.133321771
ENSMUSG00000029613	2909.404407	-0.223974358	0.113285274	-1.977082716	0.048032281	0.146775541
ENSMUSG00000064030	1731.172536	-0.223357479	0.11344225	-1.968909108	0.048963529	0.148907957
ENSMUSG00000032485	5661.134021	-0.222919179	0.10625241	-2.098015265	0.035903797	0.117922029
ENSMUSG00000024096	5298.236988	-0.22208676	0.090640621	-2.450190184	0.014278078	0.057403175
ENSMUSG00000057421	3750.157268	-0.221939881	0.099035259	-2.241018844	0.025024854	0.089093116
ENSMUSG00000070780	15775.08671	-0.22119555	0.09250715	-2.391118429	0.016797134	0.06493203
ENSMUSG00000028854	4858.261588	-0.219912105	0.10060371	-2.185924402	0.028821137	0.099249563
ENSMUSG00000018841	1430.917908	-0.219779374	0.111003431	-1.979933164	0.047711039	0.146094176
ENSMUSG00000022286	6822.393429	-0.218728887	0.102430582	-2.135386555	0.032729448	0.109908059
ENSMUSG00000067148	3249.895842	-0.218512288	0.111445351	-1.960712452	0.049912576	0.150928861
ENSMUSG00000025377	1327.05365	-0.218271012	0.1111159757	-1.963579425	0.049578885	0.150204962
ENSMUSG00000038406	10009.93904	-0.217971253	0.089226529	-2.442897362	0.01456988	0.05830305
ENSMUSG00000035569	27567.92621	-0.217880736	0.108360664	-2.010699535	0.044357203	0.138339986
ENSMUSG00000003438	3629.090653	-0.217825363	0.098733908	-2.206185972	0.027370981	0.095419767
ENSMUSG00000003099	8316.33469	-0.217502571	0.095451005	-2.27868289	0.022685923	0.082367633
ENSMUSG00000040188	4315.412878	-0.217291783	0.101933493	-2.131701533	0.033031391	0.110522587
ENSMUSG00000020456	16496.60032	-0.216336746	0.102119695	-2.118462515	0.034135916	0.113283492
ENSMUSG00000053841	9771.008087	-0.215585059	0.09949298	-2.166836889	0.030247294	0.102889703
ENSMUSG00000052488	7505.494761	-0.215216649	0.106306702	-2.024488056	0.04291996	0.134886981
ENSMUSG00000043987	4508.446499	-0.215127509	0.107705594	-1.997366166	0.04578542	0.141754916
ENSMUSG00000045374	2004.674957	-0.21292736	0.108009863	-1.971369598	0.048681616	0.148251907
ENSMUSG00000024867	6796.77863	-0.21278642	0.098768315	-2.154399619	0.031208846	0.105590829
ENSMUSG00000031007	3772.161726	-0.21247972	0.106991226	-1.98595463	0.047038362	0.144610216
ENSMUSG00000040687	3219.151451	-0.211135297	0.105778998	-1.996003946	0.045933493	0.142035889
ENSMUSG00000006418	4104.272864	-0.211084246	0.106286791	-1.985987577	0.047034703	0.144610216
ENSMUSG00000023353	3032.070851	-0.210213525	0.097274372	-2.161037089	0.030692475	0.104165709
ENSMUSG00000020198	11768.11258	-0.210028663	0.100308642	-2.093824213	0.036275642	0.118880691

ENSMUSG00000044433	8414.86295	-0.209823986	0.099966728	-2.098938208	0.035822348	0.117671849
ENSMUSG00000024181	3588.301132	-0.209611635	0.095579476	-2.193061147	0.028302974	0.098010034
ENSMUSG00000028890	1679.604822	-0.209437005	0.103235085	-2.028738624	0.04248492	0.133814065
ENSMUSG00000019889	12820.27888	-0.208546414	0.098698693	-2.112960234	0.034604172	0.114496681
ENSMUSG00000024219	4823.044026	-0.208031507	0.093184746	-2.232463101	0.025584371	0.090622152
ENSMUSG00000010047	2270.100793	-0.207961177	0.102826691	-2.02244354	0.043130551	0.135434302
ENSMUSG00000034889	4657.933963	-0.20691569	0.094230371	-2.195849249	0.028102735	0.097377113
ENSMUSG00000028668	4306.587679	-0.206843521	0.095284206	-2.170805947	0.029945844	0.10216036
ENSMUSG00000038762	11090.11589	-0.206640498	0.094409437	-2.188769516	0.028613596	0.09875979
ENSMUSG00000022019	2379.974428	-0.206377513	0.099816399	-2.067571206	0.038680362	0.124871273
ENSMUSG00000047284	7877.838689	-0.205545021	0.094694743	-2.170606467	0.029960933	0.102196201
ENSMUSG00000032185	5107.034616	-0.205064973	0.101988155	-2.010674398	0.04435986	0.138339986
ENSMUSG00000020841	7584.717135	-0.203765966	0.100090524	-2.035816762	0.041768759	0.132271695
ENSMUSG00000042594	2242.793549	-0.202664598	0.102005751	-1.986795795	0.046945031	0.144449586
ENSMUSG00000031930	5170.754337	-0.20186135	0.096690873	-2.087698071	0.036825079	0.120046205
ENSMUSG00000006498	35130.79701	-0.201854218	0.095782381	-2.107425358	0.035080725	0.115644532
ENSMUSG00000013465	4537.056404	-0.201586447	0.097362951	-2.070463609	0.03840895	0.124138841
ENSMUSG00000029598	2521.878566	-0.201043506	0.101190838	-1.986775786	0.046947249	0.144449586
ENSMUSG00000030374	7626.60047	-0.198307408	0.091389276	-2.169919895	0.030012915	0.102342204
ENSMUSG00000019715	2906.036884	-0.197909512	0.098647437	-2.006230654	0.044831645	0.139508187
ENSMUSG00000030733	4689.921455	-0.193375633	0.095033717	-2.034810793	0.041869915	0.13254233
ENSMUSG00000020780	6028.352447	-0.190635932	0.096827893	-1.968812145	0.048974667	0.148920651
ENSMUSG00000024858	5790.394185	-0.189086688	0.093155447	-2.029797455	0.042377132	0.133576313
ENSMUSG00000025580	6514.555003	-0.188772072	0.095373724	-1.979288044	0.047783585	0.146246765
ENSMUSG00000037706	13947.08779	-0.186959489	0.093899753	-1.991054106	0.046474939	0.143253299
ENSMUSG00000026842	13839.01353	-0.18656814	0.093278669	-2.000115803	0.045487761	0.141068356
ENSMUSG00000011752	3437.559534	0.191032169	0.097433585	1.960639843	0.049921051	0.150934024
ENSMUSG00000038023	5807.278931	0.194425728	0.094429429	2.058952696	0.03949877	0.126870528
ENSMUSG00000032435	4722.049408	0.196265806	0.0923626	2.124948911	0.033590876	0.111890983

ENSMUSG00000047187	4858.67564	0.197271727	0.09438862	2.089994828	0.036618264	0.119564262
ENSMUSG00000021102	3679.194561	0.199145644	0.095254777	2.090663077	0.036558277	0.11949086
ENSMUSG00000027177	5928.304287	0.199166564	0.099510669	2.00145941	0.045342904	0.140759072
ENSMUSG00000020919	3057.111365	0.200843883	0.101990723	1.969236793	0.048925906	0.148873874
ENSMUSG00000028082	14911.05924	0.200957601	0.09418968	2.133541601	0.032880323	0.110259187
ENSMUSG00000021893	4180.011293	0.201264765	0.101719151	1.978631974	0.047857457	0.146421889
ENSMUSG00000035268	4316.803168	0.201386591	0.095349225	2.112094687	0.034678329	0.114639995
ENSMUSG00000024429	2757.468616	0.202199181	0.100992083	2.00212902	0.045270857	0.140610778
ENSMUSG00000021686	9348.025344	0.203588182	0.09753388	2.087358587	0.036855733	0.120111017
ENSMUSG00000027236	3617.744375	0.204621613	0.103142779	1.983867555	0.047270607	0.145184107
ENSMUSG00000021171	5456.321121	0.204717862	0.10367863	1.974542498	0.04832009	0.147452973
ENSMUSG00000018293	26423.07532	0.204876131	0.102049583	2.007613604	0.044684368	0.139176828
ENSMUSG00000038844	5198.914658	0.205252366	0.101850984	2.015222213	0.043881371	0.137173879
ENSMUSG00000020149	6269.037787	0.20655923	0.099057467	2.085246432	0.037046937	0.12048764
ENSMUSG00000020496	7446.732178	0.206946073	0.096105878	2.153313379	0.031294058	0.105788811
ENSMUSG00000020477	3563.75814	0.207761277	0.094751685	2.192692161	0.028329566	0.098086889
ENSMUSG00000054128	3310.733194	0.208001788	0.101054034	2.058322454	0.03955919	0.127028006
ENSMUSG00000044627	5919.826797	0.21027384	0.103733222	2.027063605	0.042655908	0.134265266
ENSMUSG00000024091	6135.980223	0.210447329	0.099503539	2.114973297	0.034432223	0.114063133
ENSMUSG00000034714	3905.187564	0.21061293	0.10342145	2.036453064	0.041704882	0.132148418
ENSMUSG00000003119	10924.17496	0.210746621	0.095737692	2.201292055	0.027715355	0.096394281
ENSMUSG00000029462	2147.221381	0.211680647	0.101713541	2.081145195	0.037420618	0.121482848
ENSMUSG00000047909	2456.82918	0.212454764	0.101453063	2.094118765	0.036249402	0.118837447
ENSMUSG00000044408	3441.379177	0.21283975	0.105949889	2.00887185	0.044550726	0.138818743
ENSMUSG00000059447	5567.851787	0.213211538	0.10798956	1.974371757	0.048339487	0.147491983
ENSMUSG00000022051	2679.611104	0.214390921	0.105139682	2.039105666	0.041439483	0.131531726
ENSMUSG00000026277	9406.522351	0.215031804	0.088629786	2.426179894	0.015258705	0.060355511
ENSMUSG00000024454	6819.794591	0.215130661	0.095869809	2.243987572	0.024833201	0.088566323
ENSMUSG00000036918	7690.3528	0.215265283	0.095674991	2.24996397	0.024451233	0.087399733

ENSMUSG00000003200	3423.013799	0.215337373	0.102966799	2.091328222	0.036498652	0.119410428
ENSMUSG00000079614	5091.580003	0.215574871	0.103512644	2.082594568	0.037288195	0.121130959
ENSMUSG00000024983	3341.703207	0.21619885	0.103636077	2.086135021	0.036966394	0.120330982
ENSMUSG00000021870	9676.678881	0.216592756	0.095015724	2.279546451	0.022634602	0.082250979
ENSMUSG00000041341	10129.73355	0.217118895	0.107491505	2.019870264	0.043396846	0.136043188
ENSMUSG00000062270	7170.369111	0.217125413	0.097800122	2.220093467	0.026412424	0.093008599
ENSMUSG00000028277	2261.959338	0.217179662	0.10861902	1.999462546	0.04555833	0.141208662
ENSMUSG00000021114	1384.632654	0.218380615	0.107835762	2.025122379	0.042854799	0.134736439
ENSMUSG00000036155	13483.47338	0.218401095	0.109361212	1.997061757	0.045818475	0.141817877
ENSMUSG00000022216	16122.20678	0.218776727	0.097282239	2.248886648	0.024519709	0.087630453
ENSMUSG00000027706	3157.131611	0.218856013	0.10432585	2.097811925	0.035921763	0.117963662
ENSMUSG00000053877	4105.988743	0.219289977	0.099339312	2.207484355	0.027280239	0.095267242
ENSMUSG00000042185	4646.548434	0.219307907	0.104157336	2.105544513	0.035243937	0.116028201
ENSMUSG00000024566	5673.774173	0.219377488	0.111648297	1.964897761	0.049426072	0.149864151
ENSMUSG00000022744	1867.536061	0.219997901	0.108923611	2.019744838	0.043409862	0.136043188
ENSMUSG00000018286	7313.11923	0.220479494	0.098356901	2.241627094	0.024985483	0.088981358
ENSMUSG00000041488	2721.680187	0.220487025	0.100933465	2.184478903	0.028927076	0.099552889
ENSMUSG00000038563	3581.740499	0.220913859	0.112684511	1.960463395	0.049941652	0.150975842
ENSMUSG00000074884	8520.293344	0.220992967	0.103800337	2.129019757	0.033252626	0.111109309
ENSMUSG00000029071	7097.660391	0.221114722	0.106426642	2.077625647	0.037743852	0.122361629
ENSMUSG00000021065	6990.800079	0.221192399	0.107194864	2.063460802	0.039068868	0.125852207
ENSMUSG00000025423	2646.064022	0.221204366	0.108950798	2.030314337	0.042324598	0.133486191
ENSMUSG00000023456	25759.64183	0.22129823	0.098292515	2.251425034	0.02435863	0.087124588
ENSMUSG00000059534	7627.085315	0.221353926	0.104241996	2.123462077	0.03371515	0.112154171
ENSMUSG00000015671	5089.366196	0.221537921	0.109952078	2.014858871	0.043919439	0.137235169
ENSMUSG00000003604	1767.191742	0.222055205	0.10653239	2.084391464	0.037124574	0.120687335
ENSMUSG00000021877	6770.274331	0.222314869	0.0946853	2.347934348	0.018877848	0.071210233
ENSMUSG00000003038	13413.79619	0.222336838	0.101121406	2.198711899	0.027898414	0.09684971
ENSMUSG00000025894	1767.415365	0.222839009	0.111199299	2.00396056	0.045074285	0.140097789

ENSMUSG00000020362	6950.789503	0.223103446	0.110693335	2.015509302	0.043851312	0.137099133
ENSMUSG00000090112	4653.357192	0.223212567	0.111813982	1.996284928	0.045902918	0.141980717
ENSMUSG00000025612	4420.825445	0.223225527	0.112224138	1.989104397	0.046689681	0.143815826
ENSMUSG00000034210	5630.990276	0.223581614	0.106117129	2.106932371	0.035123442	0.115751128
ENSMUSG00000032557	2594.790359	0.223946862	0.108473842	2.064524109	0.03896805	0.125600013
ENSMUSG00000026409	1100.564332	0.224018019	0.112231364	1.996037564	0.045929834	0.142035889
ENSMUSG00000021764	4337.428741	0.225169397	0.104884454	2.146832912	0.031806586	0.107277477
ENSMUSG00000021767	5312.460499	0.225185192	0.097992418	2.297985877	0.021562593	0.079142098
ENSMUSG00000001998	1448.177023	0.22718126	0.115180352	1.972395943	0.048564425	0.148016295
ENSMUSG00000020107	2246.908499	0.227360308	0.109640681	2.073685666	0.038108513	0.123310789
ENSMUSG00000057411	1732.029141	0.227675105	0.108559071	2.09724625	0.035971782	0.118093142
ENSMUSG00000046792	2222.639637	0.227813614	0.113557911	2.006144809	0.0448408	0.139508187
ENSMUSG00000035227	3239.479961	0.227890565	0.110054187	2.070712352	0.038385685	0.12408163
ENSMUSG00000026028	3922.329851	0.227905086	0.102688716	2.219378077	0.026461014	0.093106196
ENSMUSG00000020694	3849.70437	0.228677669	0.094201757	2.427530833	0.015201995	0.060171309
ENSMUSG00000024236	8253.096217	0.228926463	0.114120248	2.006010916	0.044855083	0.139520354
ENSMUSG00000021338	9545.019976	0.229284881	0.100604709	2.279067092	0.022663077	0.082314216
ENSMUSG00000018076	8875.7552	0.229302331	0.106464694	2.153787529	0.031256838	0.105695034
ENSMUSG00000043991	3996.0395	0.230083145	0.094998031	2.421978053	0.015436283	0.060928237
ENSMUSG00000015971	2195.376433	0.230136982	0.104094195	2.210853172	0.027046006	0.094760878
ENSMUSG00000021585	9411.989861	0.230983654	0.109781167	2.104037151	0.035375206	0.116391632
ENSMUSG00000027679	1476.752605	0.231060327	0.109595395	2.10830324	0.035004768	0.115428261
ENSMUSG00000000861	2862.091097	0.231129458	0.116526046	1.983500385	0.047311564	0.145245487
ENSMUSG00000029192	6015.251395	0.231282198	0.11065981	2.090028875	0.036615206	0.119564262
ENSMUSG00000060860	6919.454343	0.231523557	0.117018787	1.978516123	0.047870511	0.146423328
ENSMUSG00000031353	15073.48848	0.231569859	0.096038637	2.411215584	0.015899447	0.062293319
ENSMUSG00000003423	2811.020653	0.23163977	0.100241069	2.310827003	0.020842412	0.07700181
ENSMUSG00000055839	8047.865457	0.232017446	0.113741147	2.039872566	0.04136302	0.131363815
ENSMUSG00000007817	7424.987011	0.23209807	0.105081315	2.208747301	0.027192222	0.095049177

ENSMUSG00000006369	3952.583857	0.232511639	0.110386648	2.106338429	0.035174965	0.115869558
ENSMUSG00000021537	2638.779145	0.232773663	0.1085064	2.14525283	0.031932638	0.107670057
ENSMUSG00000030327	1630.070044	0.233193028	0.106449358	2.190647575	0.028477306	0.098388832
ENSMUSG00000040701	5394.456094	0.233453419	0.094346476	2.474426483	0.013345028	0.054248537
ENSMUSG00000027523	31616.53848	0.233564296	0.093591211	2.495579377	0.012575162	0.051722368
ENSMUSG00000031950	2346.290977	0.233574822	0.115742909	2.018048651	0.043586195	0.136461565
ENSMUSG00000031681	5979.132858	0.233643384	0.097182103	2.404181195	0.016208737	0.063194239
ENSMUSG00000059486	2107.589363	0.233729856	0.112276182	2.081740323	0.037366195	0.121359435
ENSMUSG00000006058	2192.23279	0.233952935	0.10223671	2.288345688	0.022117398	0.080739906
ENSMUSG00000020444	2842.473902	0.234342337	0.10013721	2.340212366	0.019272777	0.072377947
ENSMUSG00000068015	6101.286316	0.234523949	0.10949756	2.141818954	0.032208054	0.108352965
ENSMUSG00000029397	1525.512006	0.234841942	0.117966357	1.990753543	0.046507989	0.14333536
ENSMUSG00000004849	3864.019925	0.235252279	0.11874725	1.981117697	0.047578076	0.145837869
ENSMUSG00000026383	2798.356679	0.235547044	0.110430392	2.13299111	0.032925455	0.110317095
ENSMUSG00000028138	6669.583151	0.235641614	0.105519864	2.23314933	0.025539098	0.090520984
ENSMUSG00000026361	3870.046606	0.236051676	0.098559432	2.395018623	0.016619521	0.064390539
ENSMUSG00000025151	6503.612064	0.236110572	0.105732666	2.233090117	0.025543002	0.090520984
ENSMUSG00000032477	6193.116946	0.236592912	0.097129669	2.435845953	0.01485701	0.059154826
ENSMUSG00000036104	2863.967876	0.236687757	0.097262651	2.433490714	0.014954019	0.059456156
ENSMUSG00000061436	17141.18216	0.236978103	0.119969708	1.975316158	0.048232281	0.14726562
ENSMUSG00000016481	2730.306303	0.237122407	0.103123036	2.299412592	0.021481522	0.078896478
ENSMUSG00000054428	21528.56251	0.237165594	0.089916953	2.637607089	0.008349326	0.037626634
ENSMUSG00000023021	952.0857824	0.23731752	0.114346446	2.075425417	0.037947125	0.122931265
ENSMUSG00000026575	999.0226847	0.237723158	0.117066863	2.030661384	0.042289356	0.133415542
ENSMUSG00000027011	3357.677336	0.237969343	0.096611495	2.463157654	0.013771934	0.055770458
ENSMUSG00000006057	9557.987873	0.238030567	0.107706162	2.209999515	0.027105196	0.094878822
ENSMUSG00000070372	5297.105601	0.238061018	0.115597647	2.059393298	0.039456577	0.12675326
ENSMUSG00000051413	6547.727176	0.238213761	0.118985706	2.002036794	0.045280774	0.140617856
ENSMUSG00000037296	1547.675014	0.238730837	0.114177171	2.090880647	0.036538764	0.119474101



ENSMUSG00000037253	6574.121161	0.238965849	0.097984121	2.438822194	0.014735216	0.05879608
ENSMUSG00000064302	6072.358126	0.23942605	0.116913663	2.047887674	0.040571007	0.129438344
ENSMUSG00000031813	2694.715891	0.23964675	0.107403853	2.23126773	0.0256634	0.090829945
ENSMUSG00000020189	1809.538177	0.239892332	0.117971728	2.03347307	0.042004752	0.132777883
ENSMUSG00000022370	3027.764341	0.240588079	0.101746259	2.364588934	0.018050093	0.068785906
ENSMUSG00000093904	6913.77959	0.240752323	0.104762498	2.298077351	0.021557387	0.079136015
ENSMUSG00000039835	8654.95918	0.241211199	0.108263108	2.228009179	0.025879903	0.091465565
ENSMUSG00000030512	1720.367962	0.241395599	0.123036411	1.961985059	0.049764224	0.15062323
ENSMUSG00000014956	7838.355911	0.241449565	0.103239515	2.338732076	0.019349304	0.072539342
ENSMUSG00000042369	3110.699173	0.241675332	0.115478762	2.092811942	0.036365945	0.119106616
ENSMUSG00000024535	1340.352718	0.242020193	0.119767857	2.020744126	0.043306259	0.135813935
ENSMUSG00000045636	14246.00898	0.242038702	0.112600015	2.14954413	0.031591292	0.106631966
ENSMUSG00000027365	8725.999298	0.242159479	0.120121796	2.015949537	0.043805253	0.136993541
ENSMUSG00000028030	2567.831965	0.242317515	0.113831891	2.128731352	0.033276493	0.111109309
ENSMUSG00000032324	7641.290943	0.242516412	0.107323755	2.259671316	0.023841658	0.085743075
ENSMUSG00000036501	5717.430402	0.242526877	0.111439865	2.176302681	0.029532635	0.101090913
ENSMUSG00000060639	1190.265487	0.242541601	0.115945022	2.091867296	0.036450388	0.119313094
ENSMUSG00000028381	2472.059656	0.242590113	0.109525806	2.214912823	0.026766049	0.093994598
ENSMUSG00000039285	5154.916312	0.242739709	0.101781669	2.384905963	0.017083488	0.065833568
ENSMUSG00000022205	4983.237113	0.242977137	0.095174373	2.552968082	0.010680928	0.045657539
ENSMUSG00000032913	2053.731572	0.243006429	0.117716293	2.0643398	0.03898551	0.12563813
ENSMUSG00000044709	1018.294665	0.24301732	0.11385855	2.134379195	0.032811753	0.110101551
ENSMUSG00000025616	3804.190173	0.243133376	0.105931715	2.295189658	0.021722258	0.079597119
ENSMUSG00000060512	2828.554537	0.243254364	0.100428945	2.422153937	0.015428813	0.060928237
ENSMUSG00000022890	11447.94654	0.243270187	0.112587812	2.160715111	0.030717353	0.104222158
ENSMUSG00000047879	3992.483211	0.243759745	0.115683722	2.107122247	0.035106984	0.11571399
ENSMUSG00000000838	4061.79776	0.244160647	0.106314407	2.296590395	0.021642147	0.079381829
ENSMUSG00000021771	13320.94324	0.24424938	0.098182677	2.487703415	0.01285709	0.05267793
ENSMUSG00000024927	3283.753006	0.244360375	0.113445489	2.153989345	0.031241007	0.105673549

ENSMUSG00000025466	1366.554956	0.244741323	0.120213873	2.035882529	0.041762153	0.132271695
ENSMUSG00000025068	22429.9681	0.244858277	0.110889627	2.208126075	0.027235486	0.095142804
ENSMUSG00000051853	5280.948551	0.244951173	0.113688599	2.154579921	0.031194722	0.105589267
ENSMUSG00000021408	3892.790782	0.245085678	0.10177513	2.408109712	0.016035361	0.062687957
ENSMUSG00000041763	6898.202502	0.245220241	0.109131738	2.247011224	0.02463931	0.088001481
ENSMUSG00000039210	3929.641689	0.245288058	0.097263012	2.521904796	0.011672129	0.048864306
ENSMUSG00000026490	3551.233618	0.245375263	0.12047495	2.03673263	0.041676843	0.13212259
ENSMUSG00000057982	2563.517193	0.245414764	0.119620951	2.05160352	0.04020821	0.128593616
ENSMUSG00000025351	5131.275777	0.245449838	0.123738701	1.983614144	0.047298871	0.145230914
ENSMUSG00000067336	4525.065943	0.246134297	0.117723673	2.09077997	0.036547792	0.119474101
ENSMUSG00000031154	5867.884411	0.246172878	0.0969735	2.538558232	0.011131028	0.047183142
ENSMUSG00000029655	4694.551563	0.246250619	0.099072296	2.485564867	0.012934601	0.052956589
ENSMUSG00000072704	3117.613886	0.246267556	0.108406427	2.271706232	0.02310426	0.083630594
ENSMUSG00000044279	2136.4204	0.246821642	0.125194138	1.97151117	0.048665437	0.148222876
ENSMUSG00000048799	2293.408849	0.247226552	0.108530823	2.277938598	0.022730236	0.082464128
ENSMUSG00000024583	5054.946978	0.247391464	0.099259043	2.492382118	0.012688944	0.052135625
ENSMUSG00000061132	6612.971645	0.247476574	0.096418436	2.566693526	0.010267331	0.044279976
ENSMUSG00000025903	1809.56212	0.247761132	0.119353354	2.075862337	0.037906685	0.1228181
ENSMUSG00000022111	2225.84165	0.248372658	0.125428429	1.980194277	0.047681703	0.14603926
ENSMUSG00000029422	6079.750244	0.248438182	0.105456355	2.35583889	0.018480931	0.070044739
ENSMUSG00000028233	2447.378854	0.24889229	0.122567627	2.030652756	0.042290232	0.133415542
ENSMUSG00000034165	2243.518871	0.249306634	0.119254679	2.090539643	0.036569351	0.119499977
ENSMUSG00000021709	14238.47328	0.249382206	0.1013023	2.461762535	0.013825617	0.055937062
ENSMUSG00000041319	2004.075985	0.249815786	0.113049679	2.209787677	0.027119901	0.0948975
ENSMUSG00000036792	1888.073375	0.249934668	0.111738663	2.236778758	0.025300804	0.089888995
ENSMUSG00000047459	2971.70772	0.250074095	0.121317464	2.061319837	0.039272537	0.126325811
ENSMUSG00000040943	3784.188853	0.25008553	0.124447847	2.009560917	0.044477681	0.138629877
ENSMUSG00000090266	1025.973983	0.250183842	0.127097758	1.968436314	0.049017857	0.148939753
ENSMUSG00000028180	4087.67808	0.250208541	0.122593397	2.040962628	0.041254542	0.131119056

ENSMUSG00000037361	2996.032079	0.250356176	0.104053444	2.406034498	0.016126742	0.062973642
ENSMUSG00000073910	4543.311266	0.250422879	0.104094191	2.405733463	0.016140036	0.063014519
ENSMUSG00000029911	2453.093499	0.250594773	0.119496594	2.097087167	0.03598586	0.118121969
ENSMUSG00000069237	3276.851253	0.25067377	0.127266209	1.969680493	0.048875	0.148779877
ENSMUSG00000036499	4619.159214	0.250696761	0.101216576	2.476835036	0.013255315	0.05400197
ENSMUSG00000037426	4401.250319	0.250873014	0.120513232	2.081705137	0.037369411	0.121359435
ENSMUSG00000026223	2807.486196	0.251192593	0.10733953	2.340168561	0.019275038	0.072377947
ENSMUSG00000005233	1626.695909	0.251499182	0.110155322	2.283132365	0.022422573	0.081680136
ENSMUSG00000029571	1038.737097	0.251681073	0.120211653	2.093649547	0.03629121	0.118914235
ENSMUSG00000027722	3345.617612	0.252054625	0.123177052	2.046279078	0.040728921	0.129775063
ENSMUSG00000033004	12834.22001	0.252261634	0.122038317	2.067069106	0.038727643	0.124987722
ENSMUSG00000026150	3125.948182	0.252401024	0.104294812	2.420072664	0.015517406	0.061161836
ENSMUSG00000045160	1826.417108	0.25245518	0.117331651	2.151637491	0.031425917	0.106170182
ENSMUSG00000026155	3056.259751	0.252589451	0.108299051	2.33233301	0.019683179	0.07352673
ENSMUSG00000039318	4391.467366	0.252801619	0.104749676	2.413388087	0.015804981	0.062010358
ENSMUSG00000068250	1889.592682	0.252873646	0.112712213	2.243533676	0.024862421	0.088642182
ENSMUSG00000028630	6276.886536	0.252910857	0.103475545	2.444160676	0.014518959	0.058130574
ENSMUSG00000008450	1695.739011	0.253028542	0.114202165	2.215619489	0.026717573	0.093875626
ENSMUSG00000068391	1474.294773	0.253038761	0.11998157	2.10898025	0.034946286	0.115320677
ENSMUSG00000019362	3072.819783	0.253143858	0.101186245	2.501761566	0.012357712	0.05106343
ENSMUSG00000006412	1604.496722	0.253249766	0.125303823	2.021085705	0.043270894	0.135779401
ENSMUSG00000029649	3960.356685	0.253272216	0.122364178	2.069823209	0.038468903	0.124314593
ENSMUSG00000058503	2211.862906	0.253305438	0.104848919	2.415908901	0.015695988	0.061691263
ENSMUSG00000041431	4982.774811	0.253747492	0.128909956	1.968408795	0.049021021	0.148939753
ENSMUSG00000034343	1644.226687	0.253791427	0.127182184	1.995495123	0.045988906	0.142148106
ENSMUSG00000021431	3463.572933	0.253880397	0.104994549	2.418034063	0.015604616	0.061397061
ENSMUSG00000050565	8193.622659	0.254130196	0.104313231	2.436222071	0.01484157	0.059114458
ENSMUSG00000089917	2707.090256	0.254379802	0.117048155	2.173291859	0.029758358	0.101635165
ENSMUSG00000048076	13130.40967	0.254549862	0.098327504	2.588796132	0.00963121	0.042139612

ENSMUSG00000052707	10636.772	0.254612181	0.106978951	2.380021285	0.017311638	0.066528837
ENSMUSG00000025949	4014.108033	0.254612553	0.125302319	2.031985962	0.042155077	0.133083292
ENSMUSG00000047213	5576.46332	0.254790884	0.095428316	2.669971516	0.007585768	0.034837359
ENSMUSG00000015092	7607.843217	0.254960603	0.113938382	2.237706029	0.025240232	0.089730976
ENSMUSG00000031198	1949.271007	0.255017997	0.115299447	2.211788542	0.026981279	0.094610513
ENSMUSG00000026032	2857.396748	0.255065586	0.124603827	2.04701246	0.040656861	0.129601009
ENSMUSG00000025733	2022.854431	0.255335817	0.102213271	2.498069146	0.012487183	0.05145541
ENSMUSG00000020064	3524.40271	0.255433739	0.110393375	2.313850246	0.020675938	0.076542844
ENSMUSG00000055531	9162.398809	0.255642095	0.112464452	2.273092442	0.02302061	0.083381942
ENSMUSG00000028191	2521.771634	0.255653529	0.097884799	2.611779686	0.009007228	0.039926493
ENSMUSG00000026175	34631.77755	0.255864776	0.099749102	2.565083509	0.010315098	0.044443004
ENSMUSG00000027272	3387.006298	0.256126711	0.127639857	2.006635838	0.044788452	0.139462061
ENSMUSG00000032580	9320.923116	0.256182128	0.090606253	2.827422155	0.004692442	0.023542442
ENSMUSG00000036199	8113.663168	0.256195728	0.126052387	2.032454397	0.042107676	0.132992076
ENSMUSG00000031349	1517.287627	0.256615553	0.121298954	2.115562784	0.03438201	0.113947571
ENSMUSG00000028096	3729.828219	0.256619391	0.110585178	2.320558658	0.020310676	0.075353249
ENSMUSG00000046404	1273.816447	0.256778747	0.109902031	2.336433146	0.019468678	0.072859663
ENSMUSG00000039968	3195.148763	0.257240671	0.109217167	2.355313521	0.018507083	0.070108114
ENSMUSG00000000266	1412.323559	0.25735863	0.124628046	2.065013755	0.038921699	0.125468749
ENSMUSG00000004285	2985.597427	0.257402781	0.126768121	2.030500878	0.042305652	0.133445311
ENSMUSG00000026484	1678.701709	0.257923136	0.112330293	2.296113792	0.021669376	0.079442504
ENSMUSG00000032267	2199.348115	0.258051652	0.112994867	2.28374668	0.022386423	0.081575101
ENSMUSG00000066892	1034.940668	0.258245302	0.114601851	2.253413019	0.024233119	0.086828856
ENSMUSG00000047044	2504.217549	0.258314752	0.114553221	2.254975897	0.024134842	0.086585558
ENSMUSG00000021413	15170.27301	0.258441023	0.115509082	2.237408673	0.025259642	0.089771359
ENSMUSG00000015668	1172.165504	0.258530118	0.126960733	2.036299826	0.041720257	0.132178357
ENSMUSG00000051483	3479.156321	0.258544885	0.130974413	1.974010633	0.048380534	0.14759703
ENSMUSG00000038733	10028.17222	0.258647184	0.102431999	2.525062356	0.011567776	0.04856419
ENSMUSG00000027763	9496.249242	0.258805405	0.118306614	2.187581877	0.028700073	0.098929207

ENSMUSG00000019494	3227.990434	0.258989481	0.108971366	2.376674636	0.01746949	0.067022143
ENSMUSG00000052917	1851.082248	0.25899315	0.108123593	2.395343539	0.016604799	0.064344679
ENSMUSG00000004815	2896.623227	0.259122574	0.112631367	2.300625313	0.021412819	0.078734918
ENSMUSG00000024425	2036.267457	0.259174355	0.129019724	2.008796388	0.044558731	0.13882429
ENSMUSG00000048920	1054.784305	0.259329663	0.121005541	2.143122218	0.032103286	0.108098351
ENSMUSG00000040354	3985.056709	0.259500367	0.128124261	2.025380397	0.042828319	0.134674893
ENSMUSG00000029817	8687.389698	0.25974578	0.105469752	2.462751396	0.013787548	0.055813415
ENSMUSG00000021745	6626.934322	0.259975487	0.107614495	2.415803615	0.015700527	0.061698229
ENSMUSG00000049882	747.9094414	0.260452289	0.126870468	2.052899247	0.04008235	0.128283078
ENSMUSG00000032688	2560.723125	0.260595553	0.105485729	2.470434214	0.013494914	0.054767984
ENSMUSG00000021816	3348.511637	0.260686413	0.113589915	2.294978494	0.021734357	0.079628371
ENSMUSG00000022503	4086.767927	0.260869365	0.120984483	2.15622167	0.03106636	0.105210463
ENSMUSG00000042541	4763.619611	0.260881287	0.113603404	2.296421379	0.0216518	0.079404175
ENSMUSG00000022052	3876.179325	0.261082588	0.099658456	2.619773571	0.008798817	0.039231756
ENSMUSG00000031360	2771.591766	0.261220108	0.107609493	2.427481997	0.015204041	0.060171309
ENSMUSG00000017707	52007.98972	0.261398526	0.112497873	2.323586391	0.020147673	0.074898024
ENSMUSG00000040843	1889.658083	0.261894858	0.109137625	2.399675251	0.016409623	0.063832373
ENSMUSG00000040782	5400.089818	0.261984414	0.106730592	2.45463282	0.014102856	0.056811377
ENSMUSG00000029780	1766.125685	0.262008102	0.114134936	2.295599499	0.021698791	0.079531943
ENSMUSG00000026784	3887.239134	0.262341389	0.102489127	2.559699699	0.010476265	0.04496366
ENSMUSG00000000581	1490.893087	0.262377442	0.104497104	2.510858487	0.012043797	0.050072466
ENSMUSG00000066441	2743.371266	0.262474775	0.113403799	2.314514827	0.020639499	0.076446016
ENSMUSG00000063229	33872.6606	0.262708096	0.113206246	2.320614851	0.02030764	0.075353249
ENSMUSG00000022789	6885.502633	0.262713053	0.117525632	2.235368137	0.02539319	0.09011673
ENSMUSG00000026078	1931.808099	0.263334449	0.102592837	2.566791776	0.010264423	0.044277819
ENSMUSG00000073676	11154.96808	0.263467844	0.110955016	2.374546485	0.017570524	0.067291816
ENSMUSG00000038150	1220.901177	0.263580592	0.120284811	2.191304037	0.028429798	0.098296578
ENSMUSG00000037965	6444.159667	0.263783603	0.113808934	2.317775889	0.020461504	0.075824527
ENSMUSG00000034390	7828.424294	0.263813773	0.104534049	2.523711423	0.011612321	0.048696196

ENSMUSG00000030417	2173.584638	0.264186461	0.103381053	2.555463043	0.010604662	0.045409864
ENSMUSG00000054843	6005.103203	0.264313172	0.123968555	2.132098512	0.032998749	0.110446125
ENSMUSG00000028060	9125.333227	0.26469152	0.120176626	2.202520807	0.027628541	0.096137322
ENSMUSG00000014856	2147.961468	0.264875489	0.117685073	2.250714398	0.024403632	0.087261087
ENSMUSG00000032456	1332.357709	0.265071489	0.122866135	2.157400724	0.030974455	0.104962972
ENSMUSG00000025034	4808.777429	0.265097867	0.118735098	2.232683277	0.025569838	0.090585061
ENSMUSG00000025898	2272.713742	0.266152514	0.120916307	2.201130034	0.02772682	0.096404086
ENSMUSG00000035284	4492.874095	0.266426597	0.113515723	2.347045759	0.018922931	0.071319972
ENSMUSG00000003444	778.1990103	0.266437493	0.127232948	2.094091958	0.036251789	0.118837447
ENSMUSG00000108414	3727.96157	0.26649673	0.124956158	2.132721868	0.032947549	0.11034757
ENSMUSG00000034640	2468.150458	0.266617665	0.104781078	2.544521112	0.01094277	0.046580398
ENSMUSG00000038664	17455.2751	0.266652503	0.133982032	1.990210912	0.046567707	0.143499575
ENSMUSG00000020003	2222.438938	0.26728899	0.108864581	2.455242911	0.014078942	0.05672529
ENSMUSG00000063108	2263.389513	0.267316299	0.108836691	2.456122998	0.014044508	0.056630004
ENSMUSG00000031703	3194.920323	0.267492818	0.103339238	2.588492258	0.009639711	0.042168537
ENSMUSG00000019842	3961.159322	0.26762337	0.103093494	2.595928804	0.009433561	0.041445596
ENSMUSG00000053080	1105.176557	0.267691225	0.118840298	2.252529072	0.024288858	0.086916851
ENSMUSG00000022668	1085.569623	0.268013103	0.134323133	1.995286271	0.046011666	0.142198749
ENSMUSG00000073639	2539.976267	0.268029158	0.108884277	2.461596532	0.013832017	0.055952804
ENSMUSG00000020621	1133.512797	0.268320914	0.121437955	2.209530905	0.027137735	0.094903345
ENSMUSG00000017291	10019.62962	0.268368252	0.104271286	2.573750278	0.010060286	0.043555509
ENSMUSG00000038859	6766.295417	0.268734382	0.116812909	2.300553808	0.021416865	0.078736811
ENSMUSG00000022808	3081.102898	0.268792338	0.111692215	2.406544968	0.016104221	0.062929777
ENSMUSG00000015127	1049.64992	0.268836396	0.126376844	2.127259937	0.033398492	0.111383245
ENSMUSG00000025860	3700.881981	0.269103375	0.136861915	1.966240029	0.049270891	0.149576658
ENSMUSG00000044813	3306.296246	0.269349324	0.100041915	2.69236473	0.007094731	0.032969284
ENSMUSG00000029534	1159.388745	0.269390563	0.114941813	2.343712496	0.019092883	0.071875486
ENSMUSG00000003847	9579.736123	0.269733879	0.110281485	2.445867313	0.014450417	0.057918539
ENSMUSG00000009647	7018.280628	0.269769955	0.097662075	2.762279577	0.00573993	0.027761047

ENSMUSG00000062115	7004.95275	0.269781171	0.106794862	2.526162455	0.011531614	0.048448857
ENSMUSG00000036438	14490.07447	0.269966634	0.09733322	2.77363303	0.005543417	0.027003876
ENSMUSG00000002733	1610.894486	0.270403622	0.119643552	2.260076846	0.023816482	0.085693992
ENSMUSG00000035545	15216.86178	0.270505956	0.101000597	2.678260953	0.007400554	0.03416972
ENSMUSG00000025132	15269.77577	0.270539288	0.118837897	2.276540519	0.022813678	0.08275339
ENSMUSG00000040661	6137.477546	0.270623866	0.108140159	2.502528835	0.012330958	0.050972325
ENSMUSG00000007034	2540.656404	0.270874229	0.116058328	2.33394909	0.019598388	0.073222256
ENSMUSG00000025049	1396.021155	0.270952072	0.133228016	2.033746947	0.041977116	0.132746975
ENSMUSG00000029640	4916.106067	0.27097071	0.111112924	2.438696603	0.014740338	0.05879608
ENSMUSG00000021072	1749.224036	0.271226913	0.114764732	2.363329814	0.018111543	0.068984718
ENSMUSG00000037857	10196.85743	0.271372589	0.100234218	2.707384695	0.006781562	0.031818982
ENSMUSG00000029089	840.6959437	0.271596735	0.120555292	2.252881076	0.024266648	0.086879198
ENSMUSG00000041272	2802.829735	0.27177511	0.133228599	2.039915687	0.041358724	0.131363815
ENSMUSG00000022788	3494.601217	0.272388167	0.106691051	2.553055423	0.01067825	0.045654843
ENSMUSG00000063787	1887.126507	0.272730301	0.103207426	2.642545326	0.008228545	0.037199429
ENSMUSG00000030685	595.3917928	0.273059068	0.13279198	2.05629187	0.039754392	0.127452945
ENSMUSG00000029580	152870.2841	0.273117584	0.087523362	3.120510643	0.001805378	0.01081723
ENSMUSG00000026456	2492.13669	0.27321799	0.103369583	2.643117838	0.008214644	0.037159184
ENSMUSG00000035933	5561.764847	0.27325141	0.138272916	1.976174499	0.048135017	0.147029039
ENSMUSG00000049539	12392.56395	0.273287182	0.109277114	2.500863834	0.01238908	0.051136198
ENSMUSG00000029177	5657.093221	0.273597006	0.115802876	2.362609781	0.018146766	0.069048119
ENSMUSG00000036390	2931.628997	0.273839328	0.118647678	2.30800412	0.020998907	0.077468426
ENSMUSG00000057561	4743.654385	0.273900381	0.138443217	1.978431214	0.047880081	0.146430841
ENSMUSG00000068299	1368.006437	0.273997763	0.139573411	1.963108597	0.049633557	0.15032975
ENSMUSG00000021254	1462.152788	0.274723688	0.106352801	2.583135439	0.009790688	0.042653278
ENSMUSG00000036779	3080.865523	0.27500774	0.098542349	2.790756893	0.005258495	0.025864513
ENSMUSG00000041258	5525.362083	0.275020248	0.115156819	2.388223728	0.016930032	0.065366455
ENSMUSG00000032846	1617.69296	0.27525557	0.12522726	2.198048329	0.027945662	0.096968447
ENSMUSG00000006191	3544.826113	0.275442965	0.123457355	2.231077807	0.025675976	0.090860033

ENSMUSG00000026994	2504.597474	0.275598666	0.10554081	2.611299519	0.009019886	0.039974656
ENSMUSG00000032012	6032.672241	0.27578725	0.10725697	2.571275783	0.01013246	0.043816947
ENSMUSG00000040006	1370.212323	0.275911359	0.113391039	2.433273052	0.014963012	0.059475747
ENSMUSG00000021615	600.8596081	0.276126868	0.13242782	2.085112247	0.037059113	0.120495166
ENSMUSG00000022106	1448.231579	0.276674738	0.13833413	2.000046827	0.045495208	0.141071834
ENSMUSG00000025935	4294.679418	0.276794034	0.102089186	2.711296324	0.00670207	0.031497186
ENSMUSG00000048826	1907.753121	0.276893999	0.123582772	2.240555012	0.025054914	0.089171661
ENSMUSG00000031839	3947.114092	0.277229259	0.096016084	2.887321025	0.003885376	0.020164712
ENSMUSG00000028343	3411.806369	0.277446963	0.135914497	2.041334582	0.041217582	0.131088605
ENSMUSG00000028649	17092.32919	0.27756007	0.130927709	2.119949035	0.034010343	0.112950807
ENSMUSG00000075028	656.9831049	0.278113731	0.132246775	2.102990646	0.035466587	0.116623468
ENSMUSG00000063410	9992.66018	0.27816058	0.095190017	2.922161248	0.003476115	0.01846174
ENSMUSG00000019173	6606.066712	0.278367984	0.093641627	2.972694866	0.002951978	0.016214791
ENSMUSG00000020070	1046.642249	0.278588776	0.137788436	2.021858901	0.043190931	0.135585719
ENSMUSG00000030061	2619.550052	0.278858615	0.112549473	2.477653663	0.013224945	0.053897934
ENSMUSG00000042726	3013.505941	0.279285136	0.113445142	2.461851868	0.013822174	0.05593328
ENSMUSG00000030067	4984.092931	0.279286575	0.102551096	2.723389464	0.006461583	0.030561988
ENSMUSG00000045917	1193.840583	0.279302505	0.11307431	2.470079234	0.013508313	0.054794795
ENSMUSG00000044707	1758.493665	0.279483802	0.116768012	2.393496284	0.01668865	0.064613471
ENSMUSG00000050555	885.1243945	0.279626115	0.119420372	2.341527741	0.019204999	0.072200046
ENSMUSG00000036613	1173.291211	0.279691091	0.110538284	2.530264461	0.011397658	0.048076258
ENSMUSG00000026031	3011.443332	0.279771138	0.112075072	2.496283368	0.01255023	0.051638871
ENSMUSG00000031591	2137.006577	0.279862661	0.106610322	2.625099101	0.008662375	0.038713352
ENSMUSG00000024317	1343.201253	0.28018467	0.118600196	2.362430066	0.018155567	0.069068379
ENSMUSG00000037876	9065.783817	0.280214499	0.120362595	2.32808622	0.019907526	0.074178402
ENSMUSG00000045100	706.6199265	0.280419059	0.129491313	2.165543415	0.030346094	0.103162843
ENSMUSG00000036188	2117.779551	0.28047928	0.109559554	2.560062263	0.010465341	0.044925423
ENSMUSG00000001403	7124.630733	0.280692233	0.137736609	2.037891274	0.041560807	0.131879278
ENSMUSG00000015335	904.6005065	0.28081339	0.132196377	2.124213962	0.033652256	0.112011786



ENSMUSG00000027787	2705.184149	0.280920812	0.134165524	2.093837547	0.036274454	0.118880691
ENSMUSG00000020308	1304.28913	0.281551964	0.119940262	2.347434951	0.018903174	0.071281649
ENSMUSG00000006095	1672.332862	0.281598938	0.126462627	2.226736418	0.025964895	0.091664259
ENSMUSG00000055932	5568.138319	0.282456571	0.102105248	2.766327649	0.005669154	0.027472362
ENSMUSG00000079477	7463.494392	0.282496597	0.102926792	2.74463618	0.006057801	0.028934468
ENSMUSG00000028262	11903.26126	0.282534407	0.138415092	2.041210995	0.041229859	0.131108954
ENSMUSG00000019809	1180.346047	0.282993318	0.113591335	2.491328402	0.012726643	0.052249053
ENSMUSG00000114456	9849.679261	0.283023331	0.128578216	2.201176376	0.02772354	0.096404086
ENSMUSG00000033487	7257.90845	0.283051569	0.115051534	2.460215508	0.013885361	0.056106844
ENSMUSG00000027804	3806.890577	0.283355784	0.126333013	2.242927466	0.024901492	0.088753105
ENSMUSG00000071014	2284.760338	0.283471763	0.107402968	2.639328956	0.008307033	0.037501041
ENSMUSG00000038872	12645.92296	0.283542256	0.10657623	2.660464305	0.0078033	0.035645512
ENSMUSG00000026754	3977.712432	0.283652802	0.096215933	2.948085546	0.003197486	0.017290768
ENSMUSG00000028292	3061.970864	0.284410737	0.112747097	2.522554849	0.011650578	0.048798817
ENSMUSG00000024095	6175.19782	0.284677484	0.094143733	3.023860153	0.002495718	0.014136907
ENSMUSG00000061665	12744.54145	0.285276167	0.109092592	2.6149912	0.008922975	0.0396634
ENSMUSG00000049295	5454.849339	0.285326481	0.130543269	2.185685124	0.02883865	0.09929454
ENSMUSG00000030527	1467.268674	0.285447427	0.12122614	2.354668935	0.018539215	0.070182146
ENSMUSG00000073420	3992.184025	0.285523955	0.133956273	2.131471318	0.033050333	0.110569378
ENSMUSG00000024477	1504.318843	0.285618818	0.107013557	2.668996576	0.007607823	0.034917072
ENSMUSG00000068959	520.4531707	0.285720639	0.135718902	2.105238356	0.035270565	0.116081593
ENSMUSG00000031513	919.3204358	0.285751075	0.117607365	2.42970391	0.015111162	0.059856843
ENSMUSG00000004567	1993.748134	0.286350171	0.118606751	2.414282229	0.015766245	0.06190194
ENSMUSG00000031879	900.2954375	0.286459288	0.143581773	1.995095072	0.046032512	0.142243459
ENSMUSG00000054920	1384.022692	0.286548445	0.137931248	2.077473008	0.037757924	0.122389457
ENSMUSG00000021285	6347.29054	0.286641557	0.09391304	3.052201866	0.002271693	0.013071667
ENSMUSG00000038187	666.0637327	0.286652777	0.126510532	2.265841214	0.023461107	0.084653334
ENSMUSG00000056629	2043.446642	0.286706528	0.11242608	2.550178101	0.01076679	0.045976533
ENSMUSG00000008575	11920.96807	0.286761218	0.12270106	2.337072044	0.019435438	0.072796391

ENSMUSG00000029823	12169.03791	0.286962321	0.100864248	2.845035059	0.004440654	0.022491713
ENSMUSG00000032727	2095.272676	0.287297926	0.112194592	2.560711005	0.010445821	0.044867537
ENSMUSG00000043998	4105.144186	0.287580162	0.104030777	2.764375784	0.005703182	0.027607262
ENSMUSG00000025758	2682.451993	0.287758709	0.144123198	1.996616185	0.045866893	0.141910621
ENSMUSG00000028945	3815.93879	0.288120262	0.105038366	2.743000238	0.006088064	0.029054123
ENSMUSG00000021819	6085.239273	0.288168001	0.110218763	2.614509492	0.008935568	0.039703546
ENSMUSG00000028792	10929.15382	0.288174823	0.097712999	2.949196377	0.003186015	0.017237096
ENSMUSG00000061518	11581.53471	0.288248661	0.118887297	2.424553923	0.015327207	0.060583488
ENSMUSG00000062627	3284.615811	0.288362363	0.122033546	2.362976193	0.018128834	0.069026999
ENSMUSG00000047454	5120.666375	0.288451997	0.095133116	3.032088187	0.002428682	0.013806282
ENSMUSG00000030839	627.7212967	0.289770118	0.146458664	1.978511267	0.047871059	0.146423328
ENSMUSG00000049470	11805.12353	0.289994267	0.107269174	2.703425918	0.006862874	0.032119405
ENSMUSG00000038650	5560.872055	0.290059482	0.109111461	2.658377764	0.007851783	0.035793665
ENSMUSG00000037808	2829.828682	0.29029826	0.120700222	2.405117871	0.01616725	0.063070058
ENSMUSG00000070493	17589.59542	0.290405566	0.102852604	2.823512056	0.004750064	0.02381069
ENSMUSG00000002881	1657.885329	0.290643545	0.111433282	2.60822926	0.009101198	0.040291443
ENSMUSG00000024955	5992.626464	0.290812401	0.102438081	2.838909116	0.004526805	0.022855394
ENSMUSG00000027366	4003.851455	0.290828365	0.101983593	2.851717179	0.004348377	0.022124836
ENSMUSG00000028609	3051.409286	0.290853738	0.109985208	2.644480486	0.008181642	0.037032435
ENSMUSG00000090019	1128.2334	0.291050815	0.121662333	2.392283695	0.016743894	0.064782372
ENSMUSG00000036223	569.4675012	0.291139596	0.128988159	2.257103273	0.024001622	0.086221034
ENSMUSG00000039840	4374.675965	0.291159024	0.119601233	2.434414893	0.014915887	0.059346868
ENSMUSG00000079480	943.0778429	0.291432292	0.136898099	2.128826439	0.033268623	0.111109309
ENSMUSG00000033808	2754.16108	0.291459122	0.12325428	2.364697781	0.018044789	0.068777448
ENSMUSG00000077394	1735.597575	0.291570173	0.112533709	2.590958523	0.009570903	0.041908639
ENSMUSG00000026799	998.053106	0.291995475	0.135536885	2.1543617	0.031211818	0.105590829
ENSMUSG00000019923	3402.28914	0.292051748	0.102483798	2.849735787	0.004375556	0.022237756
ENSMUSG00000033735	3816.442786	0.292077988	0.101219043	2.885603127	0.003906644	0.020251529
ENSMUSG00000024870	4631.574106	0.292189584	0.108549948	2.691752414	0.007107769	0.033016112

ENSMUSG00000032562	9793.633995	0.292224707	0.093261807	3.13338028	0.001728054	0.010440892
ENSMUSG00000030284	641.295428	0.292362344	0.148506023	1.968690148	0.048988683	0.148937758
ENSMUSG00000058835	4771.092003	0.292464841	0.099848851	2.929075669	0.003399716	0.01816413
ENSMUSG00000051355	1106.197757	0.292766392	0.12462535	2.349172068	0.01881521	0.071034026
ENSMUSG00000042195	2048.78581	0.292812484	0.105484217	2.775889073	0.005505099	0.026840666
ENSMUSG00000046456	950.8966541	0.292813525	0.122876786	2.382984895	0.017172899	0.066120998
ENSMUSG00000028879	3497.266586	0.292868362	0.098114786	2.984956443	0.002836187	0.015714238
ENSMUSG00000052812	6898.987461	0.292944755	0.111551012	2.626105753	0.008636798	0.038653267
ENSMUSG00000024414	1955.25259	0.293039286	0.111271517	2.633551648	0.008449698	0.037994185
ENSMUSG00000021147	1191.818334	0.293239848	0.112022508	2.617686879	0.0088528	0.039422182
ENSMUSG00000031010	15689.31775	0.293506616	0.12776611	2.297218065	0.021606333	0.079276544
ENSMUSG00000030339	6097.843456	0.293803256	0.115627602	2.540943966	0.011055364	0.046921106
ENSMUSG00000020385	4263.818273	0.29396972	0.101032703	2.909649162	0.003618347	0.019040291
ENSMUSG00000015747	1000.292907	0.294283023	0.11393738	2.582848772	0.009798826	0.042673195
ENSMUSG00000028975	1976.56602	0.294784013	0.141794568	2.078951381	0.037621819	0.122036974
ENSMUSG00000032812	5013.199625	0.294816307	0.10339155	2.851454578	0.00435197	0.022138068
ENSMUSG00000020894	1646.667148	0.29487158	0.107025589	2.755150261	0.005866519	0.028244653
ENSMUSG00000022681	1706.724155	0.294886309	0.113546175	2.597060701	0.009402531	0.041325549
ENSMUSG00000029203	3730.287038	0.295016484	0.106181694	2.778411919	0.005462532	0.026662274
ENSMUSG00000038622	1176.776866	0.295025414	0.127010413	2.322844305	0.020187518	0.07503364
ENSMUSG00000024800	582.6861917	0.295206173	0.150311094	1.963967969	0.049533807	0.150129576
ENSMUSG00000108621	1789.946998	0.29593271	0.130350843	2.270278444	0.023190694	0.083821016
ENSMUSG00000045103	2458.175965	0.296035074	0.123428986	2.398424262	0.016465781	0.063900266
ENSMUSG00000030180	9731.436075	0.296106866	0.109618327	2.701253284	0.006907871	0.032289338
ENSMUSG00000067365	771.3222665	0.296237472	0.134394333	2.2042408	0.027507414	0.095775618
ENSMUSG00000028062	2015.497551	0.296271509	0.144229326	2.054169686	0.039959271	0.127981001
ENSMUSG00000007656	2633.940383	0.29659267	0.108547039	2.732388406	0.006287697	0.029880352
ENSMUSG00000014504	1553.021964	0.297026851	0.115943261	2.561829361	0.010412246	0.044749182
ENSMUSG00000037722	1620.294062	0.297063306	0.109894765	2.703161588	0.006868335	0.032138215

ENSMUSG00000031295	2776.173097	0.297093575	0.113191616	2.624695934	0.008672638	0.038737266
ENSMUSG00000060450	2224.45657	0.297119943	0.111900065	2.655225821	0.007925533	0.03604881
ENSMUSG00000071516	12806.80374	0.297438119	0.13543056	2.196240777	0.028074714	0.097310258
ENSMUSG00000028223	2977.048742	0.297476712	0.118055131	2.519811791	0.01174176	0.049109712
ENSMUSG00000020440	4741.1657	0.297521435	0.107952885	2.756030413	0.005850756	0.028180929
ENSMUSG00000021371	2123.305536	0.297660455	0.099971396	2.977456216	0.002906512	0.016028218
ENSMUSG00000054008	3565.010995	0.297853479	0.110047475	2.706590753	0.0067978	0.031881753
ENSMUSG00000079108	484.9482773	0.297953801	0.147433862	2.020931944	0.043286811	0.135807131
ENSMUSG00000028232	827.5571399	0.298184824	0.137208196	2.17322896	0.029763089	0.101635165
ENSMUSG00000003721	658.3385399	0.298347339	0.127954326	2.331670585	0.019718027	0.073607588
ENSMUSG00000044308	7202.479298	0.298355172	0.117316301	2.543168929	0.01098521	0.046707565
ENSMUSG00000038690	11299.90473	0.298565229	0.115984096	2.574191113	0.010047476	0.043542316
ENSMUSG00000001750	8474.518545	0.298758253	0.125924549	2.37251796	0.017667304	0.067581227
ENSMUSG00000027035	21297.86399	0.29899048	0.117665404	2.541022847	0.01105287	0.046921106
ENSMUSG00000001134	857.4452386	0.299146916	0.137401506	2.177173483	0.029467626	0.100953317
ENSMUSG00000022295	2262.374464	0.299396062	0.103583213	2.89039173	0.00384762	0.020001348
ENSMUSG00000026511	2894.946334	0.299525534	0.118516313	2.527293733	0.011494532	0.04832346
ENSMUSG00000046295	2213.134923	0.29959268	0.108651627	2.757369477	0.005826847	0.028083967
ENSMUSG00000017781	8496.123692	0.299746126	0.100499542	2.982562116	0.002858466	0.015810183
ENSMUSG00000027620	21116.44904	0.300235911	0.101365057	2.96192711	0.003057201	0.016717353
ENSMUSG00000011958	2097.792924	0.300261258	0.118416692	2.53563288	0.011224434	0.04749831
ENSMUSG00000023952	4153.087707	0.30029756	0.123478578	2.431981036	0.015016494	0.059582637
ENSMUSG00000048720	1151.801105	0.300436297	0.124607271	2.411065529	0.01590599	0.062308008
ENSMUSG00000037266	22198.24281	0.300936214	0.125068442	2.406172243	0.016120662	0.062960926
ENSMUSG00000022672	6490.912459	0.301049939	0.150788137	1.996509438	0.045878499	0.141924874
ENSMUSG00000031683	2590.124111	0.301151948	0.102983261	2.924280563	0.003452534	0.018371501
ENSMUSG00000024597	120686.1368	0.301389679	0.125937405	2.393170465	0.016703479	0.064659655
ENSMUSG00000025609	5264.103577	0.302203424	0.104394248	2.8948283	0.00379366	0.019766917
ENSMUSG00000070713	577.5862976	0.302267234	0.148555102	2.034714589	0.041879599	0.13254233

ENSMUSG00000031555	2138.831888	0.30278965	0.101945892	2.970101544	0.002977013	0.016332195
ENSMUSG00000052331	807.2280309	0.302944593	0.149877547	2.021280698	0.043250716	0.135735184
ENSMUSG00000041075	5650.344914	0.303059347	0.108389647	2.796017485	0.00517366	0.02553736
ENSMUSG00000022074	830.3068485	0.303326877	0.13460605	2.253441627	0.024231317	0.086828856
ENSMUSG00000099583	9976.341523	0.303409871	0.126153133	2.405091848	0.016168402	0.063070058
ENSMUSG00000062248	3348.652398	0.303495922	0.126662705	2.396095379	0.016570778	0.064244479
ENSMUSG00000028822	1777.667469	0.30364255	0.140108805	2.167191065	0.030220288	0.102829211
ENSMUSG00000005362	1534.999961	0.303815153	0.114362976	2.656586634	0.007893617	0.035954972
ENSMUSG00000017376	1841.160752	0.303891371	0.108982626	2.788438682	0.005296277	0.026021652
ENSMUSG00000038797	583.0609952	0.304034995	0.153285562	1.98345487	0.047316643	0.145245487
ENSMUSG00000039483	1164.372653	0.304043438	0.14784551	2.056494231	0.039734902	0.127427099
ENSMUSG00000040022	571.0195567	0.304115358	0.139759276	2.175994082	0.029555703	0.101136216
ENSMUSG00000029401	1998.825564	0.30432314	0.115517588	2.634431224	0.008427838	0.037908271
ENSMUSG00000063450	40343.48211	0.304521763	0.134130553	2.270338532	0.023187051	0.083821016
ENSMUSG00000020745	8229.349033	0.304689388	0.098902623	3.080700785	0.002065141	0.012087848
ENSMUSG00000048661	3456.933696	0.304785114	0.117813453	2.587014525	0.009681151	0.042323865
ENSMUSG00000027808	7899.167821	0.305023341	0.109296467	2.79078865	0.005257979	0.025864513
ENSMUSG00000027765	2128.747295	0.305133859	0.10779778	2.830613566	0.004645881	0.023345607
ENSMUSG00000033671	17964.84743	0.305157626	0.125282663	2.435753042	0.014860826	0.059159459
ENSMUSG00000017686	3767.732927	0.305323418	0.129886403	2.350695774	0.018738347	0.070791781
ENSMUSG00000029673	10613.0468	0.305565046	0.11689168	2.614087219	0.008946619	0.039744733
ENSMUSG00000042359	3155.913921	0.305648412	0.111511973	2.74094703	0.006126238	0.029205053
ENSMUSG00000012422	1851.842332	0.305655759	0.127243611	2.402130494	0.016299893	0.063483043
ENSMUSG00000021417	3288.039109	0.305781797	0.130550032	2.342257534	0.019167484	0.072097205
ENSMUSG00000079557	1368.230835	0.305952647	0.106925121	2.861372937	0.004218105	0.021599993
ENSMUSG00000045095	9248.715411	0.306072265	0.099294045	3.082483596	0.00205281	0.012025145
ENSMUSG00000030304	2651.095724	0.306196666	0.108138585	2.83152092	0.00463272	0.023289967
ENSMUSG00000025731	2372.456764	0.306246456	0.121892471	2.512431269	0.011990246	0.049924285
ENSMUSG00000000278	2035.371752	0.30637771	0.104860527	2.921763972	0.003480552	0.018480902

ENSMUSG00000022462	18290.41315	0.306409067	0.109729218	2.792410933	0.005231687	0.025766751
ENSMUSG00000022914	13936.69237	0.306503761	0.103745147	2.954391321	0.003132865	0.017007307
ENSMUSG00000032067	3439.768389	0.306679046	0.10393662	2.950635177	0.003171212	0.017181233
ENSMUSG00000042298	1668.863847	0.307042875	0.123432956	2.487527522	0.01286345	0.052690152
ENSMUSG00000022757	4005.679407	0.307080081	0.102829969	2.986289738	0.00282385	0.015649769
ENSMUSG00000027901	6818.30149	0.307098389	0.120642428	2.545525596	0.010911336	0.04648092
ENSMUSG00000043059	1926.487312	0.307248482	0.106866757	2.87506133	0.00403949	0.020852933
ENSMUSG00000024197	4614.296456	0.30727845	0.12151583	2.52871129	0.011448216	0.048227904
ENSMUSG00000025269	1187.838143	0.307394199	0.112965719	2.721128172	0.006505953	0.030706722
ENSMUSG00000071267	1158.713996	0.307446178	0.139619351	2.202031281	0.027663099	0.096227542
ENSMUSG00000025207	22181.73008	0.307679241	0.14566653	2.11221645	0.034667888	0.114622472
ENSMUSG00000043333	333.9387106	0.307798503	0.153702824	2.002555937	0.045224973	0.14052698
ENSMUSG00000041935	2065.331596	0.307949734	0.146942572	2.095714885	0.036107491	0.11841664
ENSMUSG00000010376	4030.078678	0.307990542	0.127304777	2.419316455	0.015549706	0.061251264
ENSMUSG00000024646	7341.86697	0.308343337	0.098915608	3.117236436	0.001825551	0.010926359
ENSMUSG000000105987	10750.27024	0.308475878	0.152851914	2.018135533	0.043577148	0.136461565
ENSMUSG00000027427	1213.944987	0.308485968	0.150526051	2.049385917	0.040424393	0.129062905
ENSMUSG00000050002	1559.599719	0.308784562	0.124287732	2.484433153	0.012975787	0.053095967
ENSMUSG00000030465	7699.139112	0.309020921	0.101795139	3.035713937	0.002399669	0.013669227
ENSMUSG00000024298	4498.707428	0.309081745	0.106911746	2.890998934	0.003840194	0.019976714
ENSMUSG00000035171	1272.113571	0.309619452	0.113307564	2.732557658	0.006284467	0.029880352
ENSMUSG00000021706	1384.431914	0.309659255	0.127908634	2.420940995	0.01548039	0.061040613
ENSMUSG00000028530	14056.20569	0.310052303	0.108942424	2.84601987	0.004426943	0.022427365
ENSMUSG00000022020	2233.709786	0.310562902	0.130916827	2.372215314	0.017681783	0.067622353
ENSMUSG00000041685	6001.609041	0.310627579	0.114134138	2.721600967	0.006496654	0.03068881
ENSMUSG00000026617	8018.81515	0.31065246	0.108457228	2.864285437	0.004179512	0.021446686
ENSMUSG00000039741	5623.327642	0.310747755	0.10890032	2.853506352	0.004323966	0.022020729
ENSMUSG00000060073	4866.112631	0.310761294	0.116715163	2.662561454	0.007754841	0.035475016
ENSMUSG00000022540	597.0727692	0.311189431	0.151340079	2.056226171	0.039760721	0.127454914

ENSMUSG00000020132	2718.203048	0.31142106	0.10586165	2.941774098	0.003263379	0.017576111
ENSMUSG00000021028	710.0361005	0.311516488	0.140839244	2.211858561	0.026976439	0.094610513
ENSMUSG00000007617	3593.422534	0.311715433	0.10895758	2.860888007	0.004224563	0.021618167
ENSMUSG00000027381	1919.488372	0.311793908	0.139841718	2.229620122	0.025772673	0.091115469
ENSMUSG000000051285	1451.415954	0.312680421	0.133656136	2.339439338	0.019312708	0.072482782
ENSMUSG00000018474	12139.52194	0.31270354	0.129193975	2.420418906	0.015502637	0.061114425
ENSMUSG00000022674	522.5584053	0.313148359	0.143090278	2.188467053	0.028635599	0.09878436
ENSMUSG00000024993	734.974844	0.313185795	0.127959531	2.447537844	0.014383602	0.057712973
ENSMUSG00000046230	9037.322132	0.313338979	0.135413391	2.313943817	0.020670804	0.076542844
ENSMUSG000000032014	887.4265766	0.313453245	0.134019776	2.338858151	0.019342776	0.072539342
ENSMUSG00000019806	4308.606538	0.313839469	0.121260454	2.588143613	0.009649474	0.042202966
ENSMUSG00000022664	697.2768964	0.313868217	0.152515919	2.057937418	0.039596141	0.127128354
ENSMUSG00000028556	10843.89696	0.314266919	0.1191529	2.637509608	0.008351726	0.037626634
ENSMUSG00000003531	1162.463616	0.314547144	0.121309683	2.592926933	0.009516299	0.041726892
ENSMUSG00000006782	2757.442359	0.314685606	0.135134784	2.328679528	0.019876049	0.074110647
ENSMUSG00000045314	2894.754537	0.314745347	0.101454419	3.102332542	0.001920021	0.011394161
ENSMUSG00000017057	2055.586947	0.314826657	0.13658127	2.305050005	0.021163773	0.077960572
ENSMUSG00000022021	4189.621851	0.314959521	0.134183681	2.347226718	0.018913742	0.071309444
ENSMUSG000000036513	1316.853648	0.315077655	0.118330049	2.662701973	0.007751603	0.035474761
ENSMUSG00000021076	2106.895849	0.315304758	0.106003638	2.974471092	0.002934941	0.016145072
ENSMUSG000000064363	146204.7135	0.315317501	0.146481401	2.152611169	0.03134925	0.105943268
ENSMUSG000000062933	6820.98386	0.315374458	0.12557961	2.511350839	0.01202701	0.050039991
ENSMUSG00000015880	4273.801113	0.315395987	0.158874075	1.985194797	0.047122803	0.144789974
ENSMUSG00000028126	2134.322306	0.315468989	0.106922338	2.950449772	0.003173116	0.017183989
ENSMUSG000000069301	5070.607434	0.315770569	0.148092294	2.132255236	0.03298587	0.110419977
ENSMUSG00000027341	1980.263815	0.31587343	0.120436879	2.622730127	0.008722834	0.038944527
ENSMUSG00000078570	1343.115244	0.316110754	0.124719912	2.534565236	0.011258696	0.047589117
ENSMUSG00000028161	4720.850218	0.316117435	0.110312584	2.865651628	0.004161519	0.02138388
ENSMUSG00000049932	16594.77858	0.316147409	0.107887222	2.93035081	0.003385795	0.018107103

ENSMUSG00000065037	1146641.804	0.31620691	0.154166244	2.05107747	0.040259403	0.128683524
ENSMUSG00000028399	9337.969018	0.316220421	0.127047723	2.488989286	0.012810683	0.052516734
ENSMUSG00000026219	15225.12732	0.31631462	0.10626787	2.976578164	0.002914848	0.016054339
ENSMUSG00000030172	4678.896162	0.316626952	0.103760505	3.051517082	0.002276881	0.013093533
ENSMUSG00000022558	4685.387847	0.316968069	0.106630304	2.97258901	0.002952996	0.01621639
ENSMUSG00000073792	1369.188612	0.317025379	0.113255997	2.79919286	0.005123053	0.025332417
ENSMUSG00000003955	1994.231832	0.317064099	0.114953942	2.758183783	0.005812351	0.028044405
ENSMUSG00000045576	2577.362477	0.317204605	0.109189667	2.905078953	0.003671605	0.019256928
ENSMUSG00000006315	2829.154514	0.317708235	0.134518287	2.361821894	0.018185377	0.069147841
ENSMUSG00000029190	3074.854648	0.317737429	0.112137799	2.833455206	0.004604776	0.023175606
ENSMUSG00000022533	13254.49609	0.317991824	0.142095145	2.237879578	0.025228909	0.089705023
ENSMUSG00000021357	2362.876342	0.318057562	0.119514448	2.661247792	0.007785164	0.035577242
ENSMUSG00000037894	23987.4968	0.31826372	0.108793868	2.925382886	0.003440326	0.018319656
ENSMUSG00000006476	3258.753097	0.318742692	0.109658687	2.906679805	0.003652869	0.019181217
ENSMUSG00000021704	1888.219164	0.31892926	0.139714728	2.282717535	0.022447012	0.081742459
ENSMUSG00000019951	4414.800803	0.319046513	0.124456958	2.563508846	0.010362006	0.044606249
ENSMUSG00000059363	1436.245902	0.319190542	0.112838988	2.828725666	0.004673374	0.02346261
ENSMUSG00000066979	5438.950873	0.319317612	0.099846377	3.198089121	0.001383415	0.008671035
ENSMUSG00000019189	4083.554169	0.319756606	0.128099691	2.496154399	0.012554794	0.051648121
ENSMUSG00000001666	647.9621826	0.319762662	0.149386289	2.140508774	0.032313673	0.108675495
ENSMUSG00000016487	2849.289814	0.32003697	0.120967177	2.645651299	0.008153382	0.036919505
ENSMUSG00000003746	8990.060539	0.320210537	0.102434839	3.125992484	0.001772061	0.010650163
ENSMUSG00000000001	6906.222311	0.320260408	0.095833762	3.341832787	0.000832272	0.005702149
ENSMUSG00000002055	8558.233386	0.320273791	0.130395475	2.45617259	0.01404257	0.056630004
ENSMUSG00000039361	22646.6285	0.320375172	0.123329309	2.597721289	0.009384463	0.041286824
ENSMUSG00000033147	470.7910004	0.320435614	0.145795951	2.197836162	0.027960783	0.097005823
ENSMUSG00000003382	4458.647403	0.321045672	0.135182316	2.374908803	0.017553287	0.067260454
ENSMUSG00000028034	13156.28541	0.321272681	0.124370945	2.583181149	0.009789391	0.042653278
ENSMUSG00000028098	1919.746025	0.321327295	0.106666888	3.012437143	0.002591591	0.01460209



ENSMUSG00000049969	1602.039383	0.321367952	0.133830789	2.401300594	0.01633691	0.063593897
ENSMUSG00000026878	6653.762826	0.321405256	0.10090331	3.185279606	0.001446142	0.008990916
ENSMUSG00000030469	589.77662	0.321827556	0.130190961	2.471965438	0.013437251	0.054573689
ENSMUSG00000024140	1661.26903	0.322052746	0.128871157	2.499028909	0.012453415	0.051344724
ENSMUSG00000059713	586.3394979	0.322864449	0.143450756	2.250698835	0.024404619	0.087261087
ENSMUSG00000042364	2448.419797	0.322993579	0.14901689	2.167496451	0.03019702	0.102781402
ENSMUSG00000041028	8854.377279	0.323333489	0.102468599	3.155439748	0.001602564	0.009815647
ENSMUSG00000022707	654.327425	0.323389551	0.127581755	2.534763305	0.011252333	0.047578792
ENSMUSG00000031592	11145.1056	0.323557342	0.1259988	2.567939863	0.01023049	0.04417154
ENSMUSG00000041225	4998.306497	0.32375394	0.096197368	3.36551765	0.000764002	0.005288021
ENSMUSG00000071350	1317.946899	0.324172271	0.165281017	1.961340009	0.049839373	0.150748387
ENSMUSG00000005836	10704.57421	0.324238689	0.103522909	3.132047691	0.001735917	0.010471377
ENSMUSG00000041483	996.5620004	0.324409751	0.124569082	2.604255764	0.009207402	0.040665338
ENSMUSG00000029538	2904.488217	0.32478029	0.102828821	3.158455851	0.001586073	0.00973068
ENSMUSG00000057506	1516.4453	0.325043828	0.105287046	3.087215756	0.002020409	0.011879024
ENSMUSG00000031246	3855.609326	0.325290601	0.103843718	3.132501484	0.001733236	0.010460862
ENSMUSG00000020258	448.9941732	0.325358523	0.165572266	1.96505448	0.049407932	0.149829521
ENSMUSG00000019802	5876.507043	0.325406067	0.115569316	2.81567875	0.004867431	0.024294669
ENSMUSG00000027282	9929.369489	0.325916176	0.096433569	3.379696296	0.00072566	0.005065082
ENSMUSG00000018287	2280.316305	0.326099047	0.10925079	2.984866703	0.002837019	0.015714944
ENSMUSG00000024242	5509.902144	0.32642593	0.109294034	2.98667655	0.002820279	0.015633868
ENSMUSG00000020273	1275.279598	0.32720286	0.133409657	2.452617507	0.014182105	0.05706877
ENSMUSG00000029432	3222.613717	0.327316351	0.11742747	2.787391668	0.005313422	0.026067723
ENSMUSG00000020986	3492.462246	0.327476149	0.112627158	2.90761265	0.003641991	0.019137618
ENSMUSG00000046311	2796.779892	0.327673886	0.113104471	2.897090469	0.003766411	0.019657088
ENSMUSG00000000708	2930.174223	0.32813347	0.10338348	3.173944918	0.001503822	0.00929253
ENSMUSG00000021774	1890.1882	0.328217831	0.131021706	2.505064556	0.012242905	0.050711184
ENSMUSG00000043162	1119.75618	0.329076602	0.120436194	2.732372981	0.006287991	0.029880352
ENSMUSG00000040128	8620.242626	0.329263259	0.144269261	2.282282834	0.022472647	0.081809094

ENSMUSG00000038975	3780.865247	0.329459124	0.107697169	3.059125202	0.002219844	0.012831709
ENSMUSG00000060090	1694.650825	0.329471074	0.108804588	3.028099099	0.002460974	0.01397204
ENSMUSG00000002108	1421.089514	0.329561121	0.128761892	2.559461629	0.010483443	0.044985811
ENSMUSG00000050310	6024.386395	0.329854403	0.117739421	2.801562978	0.005085571	0.025186171
ENSMUSG00000020828	2127.795667	0.329864326	0.118467793	2.784421971	0.005362322	0.02628245
ENSMUSG00000005087	12093.20064	0.330098822	0.12240306	2.696818373	0.007000544	0.032626779
ENSMUSG00000020029	4289.170186	0.330766606	0.111995895	2.953381522	0.003143132	0.017054743
ENSMUSG00000031924	13117.94575	0.33120674	0.123110459	2.690321713	0.007138317	0.033144201
ENSMUSG00000020777	6461.983593	0.331377088	0.124007957	2.672224397	0.007535024	0.034639987
ENSMUSG00000097867	616.6996968	0.331437361	0.158890021	2.085954539	0.036982741	0.120349061
ENSMUSG00000021224	4435.89722	0.331568366	0.096474069	3.436865153	0.000588489	0.004256854
ENSMUSG00000046417	1296.703291	0.331842022	0.111103428	2.988644781	0.002802177	0.015564471
ENSMUSG00000024048	6978.981617	0.3321128	0.090694768	3.661873857	0.000250377	0.002032639
ENSMUSG00000004394	3924.488758	0.332265334	0.10875803	3.055087836	0.002249946	0.012972091
ENSMUSG00000028992	834.1121242	0.332507042	0.139706202	2.380044965	0.017310526	0.066528837
ENSMUSG00000032551	879.4328421	0.332791408	0.122002799	2.727735844	0.006377065	0.030219918
ENSMUSG00000026571	2806.501557	0.332931416	0.10789852	3.085597627	0.002031435	0.01192499
ENSMUSG00000020640	8490.734944	0.332970462	0.121273842	2.745608255	0.006039884	0.028874598
ENSMUSG00000042043	4235.49876	0.333058944	0.100674997	3.308258785	0.00093878	0.006315456
ENSMUSG00000008475	5662.524022	0.333075449	0.092216664	3.611879174	0.000303986	0.002415964
ENSMUSG00000020956	653.6595995	0.333105622	0.154545579	2.155387591	0.031131517	0.105415116
ENSMUSG00000031532	3273.872729	0.333174484	0.137995697	2.414383136	0.015761878	0.061895695
ENSMUSG00000040297	3032.180375	0.333294037	0.130700706	2.550055378	0.010770581	0.045976533
ENSMUSG00000093930	8438.107808	0.333474724	0.119602703	2.788187177	0.005300391	0.026024663
ENSMUSG00000021591	4277.778835	0.333765952	0.132525897	2.518496091	0.011785719	0.049265853
ENSMUSG00000017697	1384.539618	0.333782167	0.115325135	2.894270753	0.003800403	0.019795782
ENSMUSG00000044712	466.4652727	0.334158086	0.141290308	2.365046054	0.018027829	0.068736299
ENSMUSG00000021520	4359.932589	0.334443319	0.12194964	2.742470739	0.006097888	0.029094781
ENSMUSG00000036097	6591.83506	0.334510509	0.105013237	3.185412802	0.001445477	0.008989284

ENSMUSG00000052397	18033.5738	0.334705686	0.09782177	3.421586881	0.000622568	0.004459973
ENSMUSG00000052310	5602.413795	0.334861713	0.110604072	3.027571276	0.002465276	0.013989342
ENSMUSG00000041997	8784.901416	0.335035253	0.09967579	3.361250025	0.000775906	0.005357111
ENSMUSG00000032373	5171.138336	0.335812798	0.125539333	2.674960822	0.007473798	0.03440817
ENSMUSG00000076437	1939.686973	0.336000598	0.103879469	3.234523647	0.001218458	0.007806044
ENSMUSG00000073725	1788.190858	0.336357366	0.110752084	3.037029673	0.002389219	0.013623621
ENSMUSG00000035027	10841.18248	0.336676203	0.096876988	3.475295924	0.00051029	0.003775706
ENSMUSG00000022378	3055.910544	0.336748416	0.102272392	3.292661959	0.000992437	0.006600758
ENSMUSG00000015112	1853.342925	0.336777288	0.112203	3.00149985	0.002686532	0.015045792
ENSMUSG00000069268	6824.281322	0.33682505	0.123452658	2.728374214	0.006364736	0.030167901
ENSMUSG00000085334	1003.899115	0.337180553	0.155084035	2.174179653	0.029691646	0.101495002
ENSMUSG00000026610	6333.858813	0.337424282	0.108868335	3.099379468	0.001939265	0.011495891
ENSMUSG00000038717	4579.631932	0.337467748	0.123796473	2.725988384	0.006410925	0.030341691
ENSMUSG00000000416	5349.239614	0.337576191	0.13680806	2.467516826	0.013605383	0.055146063
ENSMUSG00000025137	8680.69513	0.337803331	0.116515958	2.899202283	0.003741134	0.019552622
ENSMUSG00000064354	1751.899919	0.337909673	0.160522226	2.105064706	0.035285676	0.116114189
ENSMUSG00000032558	1200.659936	0.338538433	0.125257479	2.702740271	0.006877046	0.032161584
ENSMUSG00000025531	1179.026432	0.338699843	0.122227604	2.771058508	0.005587439	0.027135337
ENSMUSG00000036402	4403.539391	0.338722816	0.108156534	3.131783201	0.001737481	0.010474929
ENSMUSG00000032120	1687.770198	0.338989842	0.138411534	2.449144463	0.0143196	0.057507906
ENSMUSG00000034163	11010.32626	0.339049672	0.123569092	2.743806464	0.006073133	0.028995278
ENSMUSG00000026319	7221.411826	0.339082069	0.111505573	3.0409428	0.002358386	0.013489195
ENSMUSG00000032609	924.2929312	0.339194664	0.154284443	2.198502055	0.027913348	0.096886472
ENSMUSG00000019804	4523.920408	0.339283006	0.111851317	3.033339384	0.002418634	0.013759684
ENSMUSG00000040883	982.6304067	0.339319267	0.127582929	2.659597719	0.007823403	0.03570078
ENSMUSG00000009013	6345.507899	0.339428101	0.134257944	2.528178901	0.011465591	0.048271502
ENSMUSG00000039578	7944.679438	0.340409026	0.159898356	2.128908861	0.033261802	0.111109309
ENSMUSG00000032265	3070.318397	0.340449635	0.118033408	2.884349784	0.003922228	0.020318145
ENSMUSG00000058704	2168.901758	0.340521725	0.106310221	3.203094897	0.001359592	0.008548141

ENSMUSG00000027287	1815.543157	0.340700575	0.10890118	3.128529686	0.001756833	0.010568957
ENSMUSG00000014786	1182.769762	0.340952663	0.141284982	2.413226498	0.01581199	0.062026947
ENSMUSG00000032384	3954.596392	0.341127656	0.11217325	3.04107846	0.002357324	0.013486578
ENSMUSG00000035851	4893.729245	0.341264528	0.103141879	3.308690255	0.000937335	0.006307635
ENSMUSG00000063760	1613.732856	0.34156783	0.104315108	3.274385049	0.001058922	0.006980497
ENSMUSG00000062232	4510.665825	0.341713014	0.10469547	3.263875822	0.001098993	0.007197991
ENSMUSG00000049562	1037.451353	0.341951027	0.138920988	2.461478509	0.013836569	0.055953512
ENSMUSG00000030727	1685.447828	0.34223951	0.109745313	3.118488608	0.001817812	0.010882958
ENSMUSG00000020219	3677.928348	0.342248926	0.135656305	2.522912041	0.011638751	0.048770346
ENSMUSG00000019579	3019.234863	0.342297838	0.117909266	2.903061384	0.003695342	0.01936321
ENSMUSG00000021252	2091.520062	0.342534232	0.112602103	3.041987874	0.002350214	0.013452186
ENSMUSG00000021823	8032.968103	0.342835422	0.112422221	3.049534342	0.002291964	0.013170084
ENSMUSG00000007036	2764.126321	0.342880902	0.115881661	2.958888406	0.003087509	0.016821512
ENSMUSG00000022194	3766.249481	0.343130705	0.104891789	3.271282787	0.001070608	0.007042958
ENSMUSG00000000804	3351.944409	0.343146493	0.122243449	2.807074693	0.004999365	0.024819865
ENSMUSG00000051149	749.3499292	0.343216372	0.138317343	2.481369034	0.01308788	0.053476145
ENSMUSG00000030516	10974.51675	0.343292776	0.100060995	3.430835109	0.000601726	0.004331535
ENSMUSG00000026987	12417.75944	0.343665438	0.105324294	3.262926579	0.001102681	0.007217753
ENSMUSG00000033684	5970.224901	0.343839361	0.146442783	2.347943372	0.018877391	0.071210233
ENSMUSG00000020246	979.3758273	0.343965556	0.119185708	2.885963113	0.003902179	0.020237789
ENSMUSG00000020544	674.1156831	0.344042202	0.146889742	2.342179906	0.019171471	0.072097205
ENSMUSG00000022884	22190.13027	0.34413314	0.10075139	3.415666423	0.000636261	0.004543473
ENSMUSG00000024132	3911.655852	0.344421081	0.130891558	2.63134679	0.00850472	0.038184773
ENSMUSG00000037234	2688.490755	0.344434817	0.123373791	2.791798937	0.005241592	0.025804135
ENSMUSG00000037049	461.0161116	0.345120494	0.16198509	2.130569513	0.033124623	0.110768065
ENSMUSG00000020527	5359.943928	0.345130453	0.12429813	2.776634314	0.005492494	0.026790923
ENSMUSG00000079426	5063.527701	0.34517	0.106058225	3.254533065	0.001135789	0.007382465
ENSMUSG00000032560	12355.74436	0.345244041	0.122540969	2.817376459	0.004841774	0.024204527
ENSMUSG00000015714	4124.602369	0.345320983	0.11444548	3.017340505	0.002550032	0.014411622

ENSMUSG00000000134	2460.889279	0.345511872	0.103559454	3.336362423	0.000848824	0.005803075
ENSMUSG00000022507	3554.066167	0.345527277	0.112720906	3.065334454	0.002174267	0.01260747
ENSMUSG00000053205	1737.312268	0.345716948	0.108843765	3.176267807	0.001491832	0.009231226
ENSMUSG00000039156	3080.2379	0.346091108	0.108187931	3.198980737	0.001379144	0.008646693
ENSMUSG00000031781	2519.535284	0.34614565	0.1191086	2.906134823	0.003659237	0.019204216
ENSMUSG00000005575	4671.80165	0.346449084	0.110290359	3.141245402	0.00168231	0.010208761
ENSMUSG00000035173	2544.958349	0.346468952	0.106548991	3.251733781	0.001147034	0.007446872
ENSMUSG00000030060	1255.253969	0.346698017	0.113806403	3.046384112	0.002316117	0.013271258
ENSMUSG00000095403	404.2532522	0.346767199	0.153515724	2.258838312	0.023893444	0.085891518
ENSMUSG00000064120	3359.786385	0.346958406	0.133232239	2.604162535	0.009209907	0.040665338
ENSMUSG00000031016	5502.120651	0.347209002	0.103226011	3.363580527	0.000769384	0.005317022
ENSMUSG00000029407	4627.278355	0.34724106	0.113830811	3.050501507	0.002284595	0.013134509
ENSMUSG00000071369	4672.687074	0.347336055	0.12122747	2.865159652	0.00416799	0.021402338
ENSMUSG00000026417	284250.732	0.347519715	0.11971426	2.902909928	0.00369713	0.019368026
ENSMUSG00000040044	1911.253947	0.347552519	0.124645673	2.788323985	0.005298153	0.026024663
ENSMUSG00000038903	535.539042	0.347627741	0.17477428	1.989009709	0.046700131	0.143828149
ENSMUSG00000032253	10924.69687	0.347637074	0.112939592	3.078079765	0.002083391	0.012173413
ENSMUSG00000023068	4659.845225	0.347838132	0.121998979	2.851156091	0.004356058	0.022153808
ENSMUSG00000019792	1093.275767	0.348231583	0.131097183	2.656285776	0.007900663	0.035976657
ENSMUSG00000075700	5331.105597	0.348475762	0.130625009	2.66775684	0.00763595	0.035017339
ENSMUSG00000094338	7386.394266	0.348538996	0.137858807	2.528231624	0.011463869	0.048271502
ENSMUSG00000001542	1737.327298	0.348869162	0.17237916	2.023847674	0.042985827	0.135036897
ENSMUSG00000029646	13342.12478	0.349052839	0.111052596	3.143130826	0.001671511	0.010158979
ENSMUSG00000064367	125227.458	0.349588967	0.133434713	2.619925191	0.008794906	0.039231756
ENSMUSG00000050552	1204.279174	0.349705364	0.127947497	2.733194257	0.006272333	0.029831369
ENSMUSG00000030704	5320.780759	0.349706988	0.09955583	3.512672127	0.000443625	0.003346844
ENSMUSG00000068798	1886.454383	0.350195514	0.102150313	3.42823732	0.000607514	0.004367561
ENSMUSG00000056211	6380.919795	0.35082391	0.10830534	3.239211557	0.001198606	0.007706108
ENSMUSG00000036863	7924.242786	0.350902841	0.108268483	3.241043306	0.001190931	0.007662709

ENSMUSG00000061371	650.2240177	0.351268163	0.170714407	2.05763632	0.039625057	0.12720288
ENSMUSG00000110289	460.9721007	0.351382147	0.168310347	2.087703775	0.036824564	0.120046205
ENSMUSG00000030890	2653.020681	0.351660358	0.10270172	3.424094129	0.000616853	0.004426135
ENSMUSG00000038831	1364.914736	0.351768464	0.149086065	2.359499279	0.018299616	0.069487442
ENSMUSG00000004317	2241.782403	0.351972223	0.11798386	2.983223485	0.002852296	0.015787804
ENSMUSG00000079057	2656.598629	0.352219914	0.153393435	2.296186371	0.021665227	0.079440355
ENSMUSG00000032526	600.8668968	0.352428161	0.140072138	2.51604755	0.011867917	0.049536602
ENSMUSG00000094724	2291.65779	0.352495602	0.118405183	2.977028482	0.00291057	0.016042663
ENSMUSG00000051124	332.325964	0.352504989	0.161468187	2.183123464	0.029026719	0.099772636
ENSMUSG00000107402	381.5736745	0.352552632	0.179402533	1.965148576	0.049397044	0.149829521
ENSMUSG00000067629	1426.816427	0.352868603	0.157535537	2.239930178	0.025095456	0.089301702
ENSMUSG00000048772	308.6959324	0.352870555	0.161594103	2.183684611	0.028985431	0.099676809
ENSMUSG00000019303	517.906693	0.353061643	0.173712485	2.032448294	0.042108293	0.132992076
ENSMUSG00000025353	2236.764484	0.353134471	0.119291407	2.960267462	0.003073721	0.016776075
ENSMUSG00000063253	431.1788096	0.35341768	0.148705984	2.376620426	0.017472057	0.067022143
ENSMUSG00000095687	2702.939545	0.353489099	0.118353429	2.986724593	0.002819836	0.015633868
ENSMUSG00000024507	8411.28758	0.353557828	0.103779041	3.406832671	0.000657214	0.004672149
ENSMUSG00000046096	460.4111578	0.354061689	0.16734997	2.115696159	0.034370658	0.113926878
ENSMUSG00000074238	7909.844853	0.354105214	0.09699162	3.650884607	0.000261339	0.002109342
ENSMUSG00000038668	1359.683574	0.354114064	0.135981182	2.604140218	0.009210507	0.040665338
ENSMUSG00000018102	18169.61648	0.354190128	0.140114895	2.527854926	0.011476176	0.048289989
ENSMUSG00000042473	1737.309381	0.354472745	0.126046797	2.812231274	0.004919911	0.024529163
ENSMUSG00000024472	3817.173776	0.354792896	0.144872067	2.449008307	0.014325014	0.057519292
ENSMUSG00000041161	1902.229256	0.355107413	0.119207517	2.978901178	0.002892841	0.015964672
ENSMUSG00000031262	1229.063706	0.355228163	0.157698035	2.25258459	0.024285354	0.086916851
ENSMUSG00000031799	5927.903614	0.355407257	0.111139566	3.197846363	0.00138458	0.008675899
ENSMUSG00000068855	7702.15813	0.355614716	0.142406053	2.497188214	0.012518249	0.05155009
ENSMUSG00000035441	21908.65375	0.355680654	0.109222344	3.256482535	0.001128019	0.007340515
ENSMUSG00000004535	16852.77019	0.355695947	0.11843011	3.003424957	0.002669594	0.014969729

ENSMUSG00000025268	724.5123995	0.355949962	0.163030082	2.183339156	0.029010843	0.099733438
ENSMUSG00000039530	1172.201954	0.356167935	0.125388774	2.840508957	0.004504161	0.022751368
ENSMUSG00000087368	414.7201422	0.356174064	0.157835424	2.256616768	0.024032032	0.08630247
ENSMUSG00000035958	3399.136651	0.356424253	0.104371409	3.414960632	0.000637912	0.00455089
ENSMUSG00000023186	1919.351872	0.356629197	0.129508636	2.753709782	0.005892399	0.028296931
ENSMUSG00000086370	849.3698341	0.356986718	0.133895461	2.666159972	0.007672318	0.035155199
ENSMUSG00000030654	7467.043925	0.357064176	0.100529847	3.551822543	0.000382573	0.002946048
ENSMUSG00000039911	965.0839381	0.357437016	0.154883514	2.307779614	0.021011397	0.077488866
ENSMUSG00000025544	11134.78446	0.357727578	0.103090007	3.470050961	0.00052036	0.003833677
ENSMUSG00000034607	1613.369585	0.357772799	0.128684217	2.780238387	0.005431901	0.026541809
ENSMUSG00000020607	5278.993989	0.357994054	0.154540924	2.31650002	0.020530983	0.076069357
ENSMUSG00000024462	1153.601	0.358018496	0.159698792	2.241835965	0.024971976	0.088960864
ENSMUSG00000040525	3042.073433	0.358287575	0.134280245	2.668207625	0.007625712	0.034991975
ENSMUSG00000106680	503.4324213	0.358440855	0.175008755	2.04813099	0.040547166	0.129380792
ENSMUSG00000087881	1246.496231	0.358647074	0.174368879	2.056829613	0.039702618	0.12737852
ENSMUSG00000044477	2574.823031	0.358793451	0.123099345	2.914665807	0.003560696	0.018816305
ENSMUSG00000097571	538.4859412	0.358829852	0.158054951	2.270285429	0.023190271	0.083821016
ENSMUSG00000021701	6648.325832	0.359550319	0.135229869	2.658808456	0.007841753	0.035762564
ENSMUSG00000046806	383.3037316	0.360027448	0.180208253	1.997841066	0.045733894	0.141651147
ENSMUSG00000058444	2592.671254	0.360034594	0.101788648	3.537080037	0.000404577	0.003092006
ENSMUSG00000022973	3330.24506	0.360277214	0.110101044	3.272241573	0.001066984	0.007025333
ENSMUSG00000029066	2030.969909	0.360858844	0.133623196	2.700570376	0.006922069	0.032328946
ENSMUSG00000040459	6047.191594	0.361173749	0.115053335	3.139185388	0.001694182	0.01027548
ENSMUSG00000080717	634.9795303	0.36118903	0.133635064	2.702801333	0.006875783	0.032161584
ENSMUSG00000051147	393.1912275	0.361668206	0.165906883	2.17994696	0.029261393	0.100457017
ENSMUSG00000026321	6098.923874	0.361893347	0.117207382	3.087632711	0.002017577	0.01186863
ENSMUSG00000041238	2875.697782	0.362086157	0.117367436	3.085064913	0.002035077	0.011940084
ENSMUSG00000021188	8573.230257	0.362342517	0.111109705	3.261123925	0.001109715	0.00725528
ENSMUSG00000032290	1935.419093	0.362709725	0.108961779	3.328779397	0.000872275	0.00594517

ENSMUSG00000004633	3029.089015	0.36278994	0.111751624	3.246395236	0.001168765	0.007550585
ENSMUSG00000027342	17564.59305	0.362802341	0.097837695	3.708206141	0.000208733	0.00174118
ENSMUSG00000025816	1473.376517	0.362880366	0.139726361	2.597078766	0.009402036	0.041325549
ENSMUSG00000028293	1688.388176	0.362935251	0.111511404	3.254691781	0.001135155	0.007380492
ENSMUSG00000064289	2514.291986	0.363232907	0.111532503	3.256744877	0.001126977	0.007335875
ENSMUSG00000024773	7243.851504	0.363391671	0.127159969	2.857752127	0.004266535	0.021782968
ENSMUSG00000016503	3079.252178	0.363444416	0.107795303	3.371616447	0.000747284	0.005198125
ENSMUSG00000004771	1881.994557	0.363503419	0.11151544	3.259668974	0.001115423	0.0072835
ENSMUSG00000064351	965232.7235	0.363736068	0.110457721	3.292989072	0.000991283	0.006597565
ENSMUSG00000038803	3225.486144	0.363756067	0.110684608	3.286419607	0.001014697	0.006726744
ENSMUSG00000037096	290.6527607	0.363771871	0.172790863	2.10527261	0.035267585	0.116081593
ENSMUSG00000019826	1052.128968	0.363889206	0.118846904	3.061831612	0.002199872	0.012739376
ENSMUSG00000028760	7963.816698	0.363928692	0.131963858	2.757790639	0.005819346	0.028059941
ENSMUSG00000022335	891.5355017	0.364034055	0.118937931	3.060706122	0.002208157	0.012780719
ENSMUSG00000075701	1997.142952	0.364102164	0.131907512	2.760283763	0.005775118	0.02787893
ENSMUSG00000035953	2019.048844	0.364416368	0.103268939	3.52880905	0.000417434	0.003180743
ENSMUSG00000020311	2149.848403	0.36476898	0.114339082	3.190238845	0.001421553	0.008875668
ENSMUSG00000028165	3093.095912	0.364850018	0.099277255	3.675061517	0.000237792	0.00194677
ENSMUSG00000022139	9431.29997	0.365178384	0.103430747	3.53065597	0.000414531	0.003162657
ENSMUSG00000060152	1912.513642	0.365527869	0.111918	3.266032884	0.001090656	0.00715374
ENSMUSG00000023150	70322.81981	0.365553454	0.104466243	3.499249549	0.00046657	0.003496294
ENSMUSG00000059182	2661.593018	0.366189287	0.166631798	2.197595488	0.027977945	0.097050265
ENSMUSG00000020707	653.6108097	0.366320705	0.149953337	2.442897986	0.014569855	0.05830305
ENSMUSG00000062785	488.9857236	0.366611294	0.145103876	2.526543763	0.011519104	0.048405414
ENSMUSG00000031021	877.5901544	0.366644049	0.122592157	2.990762686	0.002782817	0.01547235
ENSMUSG00000024878	775.7937084	0.366727752	0.143749404	2.55116015	0.010736498	0.045877493
ENSMUSG00000084910	293.5235224	0.366760428	0.177234189	2.069354845	0.038512801	0.124420392
ENSMUSG00000029725	921.4023925	0.366801227	0.126030198	2.910423316	0.003609395	0.019005422
ENSMUSG00000022749	1777.713434	0.366823742	0.108089839	3.393693118	0.000689569	0.004858636



ENSMUSG00000036934	633.9828637	0.366906243	0.143216535	2.561898617	0.01041017	0.044749182
ENSMUSG00000024346	2191.597582	0.367101734	0.115227046	3.185899018	0.00144305	0.008979199
ENSMUSG00000037152	2388.035048	0.367113193	0.109375137	3.356459281	0.000789473	0.005432289
ENSMUSG00000052419	634.1780232	0.367140062	0.13602185	2.699125627	0.006952193	0.032435324
ENSMUSG00000032440	3070.66493	0.367307319	0.1063361	3.454210931	0.000551906	0.004022237
ENSMUSG00000020993	1284.773997	0.367451967	0.116228394	3.161464708	0.001569778	0.009641319
ENSMUSG00000079179	1222.521196	0.367493357	0.120377164	3.052849433	0.002266796	0.013055741
ENSMUSG00000017677	5167.823135	0.368500564	0.137725761	2.675611025	0.007459316	0.03437267
ENSMUSG00000021367	3229.587077	0.369241552	0.178005919	2.07432177	0.038049437	0.12319113
ENSMUSG00000037434	1393.755704	0.369582534	0.134719054	2.743357548	0.006081443	0.029028736
ENSMUSG00000031163	1084.457708	0.369694673	0.147166978	2.512076267	0.012002315	0.049965208
ENSMUSG00000037455	2416.284518	0.369855698	0.142755517	2.590832955	0.009574395	0.041915703
ENSMUSG00000032652	450.4461043	0.370087715	0.17858741	2.072305738	0.038236938	0.123690448
ENSMUSG00000040498	3186.71837	0.37067804	0.12847207	2.885281133	0.003910643	0.020267544
ENSMUSG00000035242	13179.74623	0.3711918	0.098511107	3.768019772	0.000164548	0.001409749
ENSMUSG00000073468	999.9044892	0.371364718	0.125616775	2.956330623	0.003113232	0.016921321
ENSMUSG00000074922	1314.713432	0.371706492	0.124438341	2.987073658	0.002816619	0.01562134
ENSMUSG00000015575	1520.056401	0.372371742	0.108504603	3.431852018	0.000599475	0.004321137
ENSMUSG00000031520	299.3388181	0.372638602	0.169378037	2.200040859	0.027803996	0.096567033
ENSMUSG00000061689	3994.864086	0.373048579	0.138226087	2.698829057	0.006958391	0.032457451
ENSMUSG00000049439	965.1017488	0.373137532	0.117520809	3.17507627	0.001497971	0.009261507
ENSMUSG00000002957	6648.28284	0.373187011	0.118203356	3.157160876	0.001593134	0.009768624
ENSMUSG00000053182	1755.021258	0.373228222	0.175239318	2.129820098	0.033186469	0.110941604
ENSMUSG00000020530	6568.437573	0.373390686	0.099760478	3.742871864	0.000181929	0.001540903
ENSMUSG00000032525	11870.0324	0.373456406	0.121721154	3.068130671	0.002154024	0.012512865
ENSMUSG00000031266	883.2489265	0.373941535	0.116633859	3.20611473	0.001345403	0.008475661
ENSMUSG00000062376	533.9228371	0.374053285	0.160231249	2.334459029	0.019571699	0.073147052
ENSMUSG00000064370	350336.1275	0.374127491	0.149335826	2.505276193	0.012235581	0.050690263
ENSMUSG00000069300	11702.69769	0.374152741	0.144819568	2.583578629	0.009778118	0.042631828

ENSMUSG00000024121	1046.370701	0.3744884	0.169527685	2.209010283	0.027173926	0.095000112
ENSMUSG00000030741	2921.046784	0.374643067	0.102062495	3.670722218	0.000241866	0.001975048
ENSMUSG00000059866	1151.514308	0.374648268	0.165435856	2.264613469	0.02353641	0.084864264
ENSMUSG00000038507	1469.743312	0.37477303	0.124310944	3.014803186	0.002571461	0.014510664
ENSMUSG00000097217	222.010786	0.374899211	0.190028587	1.972856916	0.048511866	0.14793698
ENSMUSG00000002580	1387.449887	0.374978844	0.113763333	3.29613096	0.000980263	0.006537335
ENSMUSG00000026946	1298.301654	0.375223945	0.162289234	2.312069231	0.020773868	0.076816123
ENSMUSG00000025762	4293.243152	0.37542838	0.097975831	3.831846846	0.000127185	0.001130921
ENSMUSG00000024896	3018.579711	0.375747116	0.121015528	3.104949602	0.001903114	0.011305636
ENSMUSG00000053799	2747.761121	0.375789247	0.108374701	3.467499725	0.000525324	0.003863871
ENSMUSG00000054474	810.5467847	0.375847141	0.157215138	2.390654902	0.016818353	0.065002788
ENSMUSG00000027195	5840.965512	0.375911154	0.095785218	3.924521587	8.69E-05	0.000812432
ENSMUSG00000027882	2293.494624	0.375969667	0.102464171	3.669279337	0.000243235	0.001985501
ENSMUSG00000114709	356.529205	0.376353749	0.183553383	2.05037762	0.040327595	0.128864552
ENSMUSG00000069310	15681.27854	0.376728484	0.114873083	3.279519229	0.001039841	0.006875037
ENSMUSG00000020546	610.573208	0.377309773	0.178662368	2.111859244	0.034698524	0.114689756
ENSMUSG00000075376	5621.064813	0.377392388	0.11434184	3.300562486	0.000964912	0.006446896
ENSMUSG00000023961	370.4556968	0.377394822	0.176878952	2.133633307	0.032872809	0.110256658
ENSMUSG00000024726	1544.839807	0.377460525	0.10842574	3.48128152	0.000499021	0.003704614
ENSMUSG00000035248	10122.2132	0.377460969	0.113489001	3.325969614	0.000881115	0.005994434
ENSMUSG00000020231	2028.994978	0.377532858	0.112044422	3.369492674	0.000753067	0.005227316
ENSMUSG00000025950	3983.406947	0.377598271	0.112586184	3.353859739	0.000796927	0.00547682
ENSMUSG00000028149	3153.331652	0.377720983	0.112201541	3.366450932	0.000761421	0.005273433
ENSMUSG00000021552	1255.337678	0.378174968	0.118511642	3.191036442	0.001417634	0.00886061
ENSMUSG00000039704	3399.579904	0.378195107	0.115289857	3.280384906	0.001036656	0.006856007
ENSMUSG00000029290	2850.112833	0.378317654	0.107651094	3.514294555	0.000440924	0.003334363
ENSMUSG00000027956	559.9866387	0.378653036	0.132443898	2.858969283	0.004250199	0.021719454
ENSMUSG00000032340	11018.44296	0.378703666	0.135979561	2.785004331	0.005352701	0.02624683
ENSMUSG00000024948	1588.776911	0.378771638	0.131542501	2.879462037	0.003983543	0.020578407

ENSMUSG00000003865	1417.386224	0.378905546	0.107408788	3.52769595	0.000419193	0.00319149
ENSMUSG000000036661	1672.06932	0.378946598	0.141358121	2.680755774	0.00734561	0.033944148
ENSMUSG000000036246	984.7174556	0.379055895	0.13827646	2.741290133	0.006119844	0.029180809
ENSMUSG000000019873	4282.589912	0.379064703	0.121252426	3.126244273	0.001770544	0.010645701
ENSMUSG000000032673	269.7306445	0.379306663	0.162120995	2.33965171	0.019301731	0.072453778
ENSMUSG000000028483	1910.573697	0.379355674	0.109558209	3.462594692	0.000534994	0.003923345
ENSMUSG000000078201	356.0425436	0.379534485	0.146983338	2.582159931	0.009818407	0.042732299
ENSMUSG000000020420	1021.777007	0.379559384	0.123021438	3.085310903	0.002033395	0.011933352
ENSMUSG000000014164	350.9427909	0.379827815	0.15750161	2.411580528	0.015883544	0.062252884
ENSMUSG000000021715	1664.904116	0.379974573	0.11258682	3.374947198	0.000738299	0.005142035
ENSMUSG000000024085	12859.34595	0.379982444	0.120709568	3.147906582	0.001644442	0.010022804
ENSMUSG000000039191	1827.765863	0.380437755	0.112142615	3.392445899	0.000692716	0.004877885
ENSMUSG000000026437	3614.283383	0.380451539	0.104705226	3.633548696	0.00027955	0.002240114
ENSMUSG000000029804	3260.352391	0.380669121	0.115768257	3.28819946	0.001008304	0.006688335
ENSMUSG000000019907	9939.654571	0.380798665	0.106089895	3.589396199	0.000331445	0.002604493
ENSMUSG000000099517	7586.037331	0.381158594	0.120925991	3.151998936	0.001621569	0.009912994
ENSMUSG000000034327	1076.405264	0.381174616	0.116323879	3.276838952	0.001049762	0.006930358
ENSMUSG000000024014	2354.606469	0.381189082	0.172860487	2.205183429	0.027441225	0.09560487
ENSMUSG0000000103651	489.5899644	0.381271416	0.185313614	2.057438778	0.039644038	0.127245495
ENSMUSG000000004032	2231.700854	0.381370101	0.1123604	3.394168231	0.000688374	0.004851905
ENSMUSG000000050240	800.1427394	0.382376174	0.145966806	2.619610484	0.008803025	0.039239709
ENSMUSG000000031996	15532.89044	0.382850006	0.129285841	2.961267856	0.003063754	0.016737905
ENSMUSG000000075031	10641.75108	0.382978642	0.123672755	3.096709877	0.001956813	0.011578372
ENSMUSG000000043923	1435.76851	0.383214212	0.113648141	3.3719356	0.000746419	0.005193725
ENSMUSG000000004056	4105.337778	0.383430705	0.151104049	2.537527671	0.011163854	0.047268865
ENSMUSG000000035093	3048.999453	0.384013852	0.117766237	3.260814493	0.001110927	0.007261073
ENSMUSG000000039016	1965.039379	0.384409194	0.123726143	3.106935883	0.001890374	0.011244926
ENSMUSG000000019998	2828.717536	0.384625164	0.099046586	3.88327532	0.000103059	0.00094116
ENSMUSG000000060708	696.5359772	0.384700921	0.126937306	3.030637197	0.002440383	0.013858665

ENSMUSG00000037416	10745.52248	0.384717464	0.114567059	3.358011165	0.000785054	0.005406887
ENSMUSG00000027695	6871.713442	0.384751999	0.138288408	2.782243314	0.005398455	0.026424703
ENSMUSG00000038206	1144.75204	0.384995652	0.130406821	2.952266229	0.003154508	0.017108144
ENSMUSG00000021241	968.486653	0.385088455	0.123193139	3.125892064	0.001772666	0.010650163
ENSMUSG00000034329	2034.801189	0.3851741	0.131671905	2.925256531	0.003441724	0.018322722
ENSMUSG00000044501	503.1377982	0.385370437	0.147506814	2.612560242	0.008986685	0.039851276
ENSMUSG00000109644	796.4782632	0.385421776	0.176862765	2.17921379	0.02931579	0.100611178
ENSMUSG00000062198	561.2356818	0.385659899	0.172884105	2.230742366	0.0256982	0.09092425
ENSMUSG00000042410	3720.463349	0.386033373	0.099165661	3.892812988	9.91E-05	0.000909746
ENSMUSG00000054942	2458.465418	0.386037384	0.124790064	3.093494568	0.001978142	0.011685971
ENSMUSG00000079316	1095.346935	0.386622046	0.129149345	2.99360438	0.002757032	0.015357751
ENSMUSG00000045316	1918.843082	0.386871341	0.130633801	2.961494933	0.003061495	0.016731093
ENSMUSG00000024943	5471.708993	0.387179885	0.122793637	3.153094032	0.001615498	0.009886721
ENSMUSG00000019877	2230.792385	0.387236965	0.105850598	3.658335167	0.000253859	0.002055648
ENSMUSG00000063524	14569.57027	0.387329147	0.104253477	3.715263588	0.000202992	0.001698658
ENSMUSG00000100707	324.3068256	0.387356271	0.177132146	2.186820863	0.028755604	0.099097802
ENSMUSG00000036977	588.4930464	0.387462852	0.134074041	2.889917004	0.003853435	0.020022242
ENSMUSG00000041237	4536.353949	0.387576445	0.120718493	3.210580538	0.001324671	0.008366326
ENSMUSG00000110558	540.9172654	0.387625457	0.163355407	2.372896394	0.017649214	0.067523609
ENSMUSG00000022793	907.5297669	0.387774901	0.132871066	2.91842997	0.003517989	0.018644171
ENSMUSG00000020948	608.1812182	0.387895099	0.143068953	2.711245805	0.006703091	0.031497186
ENSMUSG00000032413	3016.189873	0.387938364	0.119747041	3.239648849	0.00119677	0.007698057
ENSMUSG00000032311	373.5857707	0.388756664	0.177340053	2.192153765	0.028368406	0.098175639
ENSMUSG00000033792	1950.039034	0.388766134	0.112264524	3.462947319	0.000534293	0.003919496
ENSMUSG00000062727	10233.34597	0.388791693	0.130747137	2.973615338	0.002943138	0.016178189
ENSMUSG00000021597	1791.735342	0.388844851	0.126543568	3.072814032	0.002120506	0.012353553
ENSMUSG00000062646	750.5068479	0.388852759	0.175239908	2.218973767	0.026488509	0.093188239
ENSMUSG00000006699	8219.110213	0.388938395	0.125904277	3.089159502	0.002007236	0.01182652
ENSMUSG00000007987	659.4330309	0.38898622	0.154064927	2.524820075	0.011575754	0.048570251

ENSMUSG00000045180	4442.495617	0.390080946	0.10891948	3.581369897	0.000341797	0.002667981
ENSMUSG00000069265	13183.88057	0.390214342	0.126730666	3.079083817	0.002076383	0.012144088
ENSMUSG00000024587	11849.11869	0.39024376	0.100736327	3.873912931	0.000107102	0.00097449
ENSMUSG00000038658	4264.012867	0.390273868	0.101320569	3.851872056	0.000117218	0.001050677
ENSMUSG00000014418	3917.82723	0.390300009	0.124560419	3.133419216	0.001727825	0.010440892
ENSMUSG00000057069	937.5544018	0.390658375	0.157324822	2.483132481	0.013023264	0.053268693
ENSMUSG00000017978	4984.226348	0.390959693	0.109926448	3.556557129	0.000375747	0.002902504
ENSMUSG00000030946	3672.261215	0.391187611	0.146661619	2.667280061	0.007646792	0.035055255
ENSMUSG00000035673	7400.57391	0.39149796	0.15604826	2.508826176	0.012113308	0.05033331
ENSMUSG00000038871	2004.596102	0.391576977	0.131669655	2.973934874	0.002940075	0.016165337
ENSMUSG00000026096	575.9236743	0.391743425	0.160636726	2.438691539	0.014740545	0.05879608
ENSMUSG00000025742	5778.188421	0.391883165	0.109190314	3.588992018	0.000331959	0.002606696
ENSMUSG00000029378	2745.858124	0.392045908	0.154456901	2.538222019	0.011141728	0.047202065
ENSMUSG00000052407	1067.863968	0.392056787	0.160535294	2.442184379	0.014598689	0.058374481
ENSMUSG00000033186	1311.639316	0.392696726	0.140643659	2.79213957	0.005236077	0.025782677
ENSMUSG00000006736	3061.403678	0.392795119	0.11271991	3.484700428	0.000492688	0.003662481
ENSMUSG00000026761	1658.534193	0.393072134	0.134781999	2.916354836	0.003541475	0.018741915
ENSMUSG00000038331	963.9610288	0.393148158	0.11995821	3.277375982	0.001047767	0.006919237
ENSMUSG00000020390	3094.714981	0.394343709	0.101195614	3.896845874	9.75E-05	0.000897279
ENSMUSG00000029561	1435.832272	0.39484534	0.161901091	2.438805924	0.01473588	0.05879608
ENSMUSG00000051319	568.4903789	0.39522902	0.153578424	2.573467096	0.010068522	0.043582708
ENSMUSG00000033105	2811.157268	0.395231615	0.120664363	3.275462665	0.001054891	0.006955977
ENSMUSG00000035877	4463.022688	0.395250141	0.141102628	2.801153638	0.005092027	0.025212543
ENSMUSG00000033157	1116.605232	0.395481387	0.122466127	3.229312446	0.001240882	0.007920126
ENSMUSG00000028064	5818.851087	0.395537517	0.116299193	3.401034071	0.000671315	0.004746667
ENSMUSG00000056268	2511.201595	0.395738566	0.115427704	3.42845394	0.00060703	0.004365484
ENSMUSG00000036181	33349.93221	0.395939263	0.132079084	2.997743853	0.002719862	0.015196635
ENSMUSG00000030619	4006.548608	0.396202218	0.100276065	3.951114538	7.78E-05	0.000738877
ENSMUSG00000061751	826.9425974	0.396342702	0.158221281	2.504989846	0.012245491	0.050712478

ENSMUSG00000020629	3508.734939	0.396621158	0.119202601	3.327286089	0.000876963	0.005971649
ENSMUSG00000035505	1057.002587	0.396892977	0.186098886	2.13269937	0.032949396	0.11034757
ENSMUSG00000075266	515.7822232	0.396902792	0.164220274	2.416892771	0.015653628	0.061535616
ENSMUSG00000021432	2916.052348	0.397238223	0.112613876	3.527435849	0.000419605	0.003192283
ENSMUSG00000026411	1069.501766	0.39747828	0.135441081	2.934695126	0.003338756	0.017894157
ENSMUSG00000019861	2060.912582	0.397734865	0.104017419	3.823733283	0.000131446	0.001161863
ENSMUSG00000034394	290.3104611	0.397843173	0.180475737	2.204413624	0.027495268	0.095748279
ENSMUSG00000025939	691.7722747	0.398084129	0.126137421	3.155955826	0.001599731	0.009803682
ENSMUSG00000071454	1727.604266	0.398111482	0.107361111	3.708153534	0.000208776	0.00174118
ENSMUSG00000025921	2270.103249	0.398598646	0.123305016	3.232623136	0.001226593	0.007849137
ENSMUSG00000017831	3151.636824	0.398700634	0.105004887	3.796972186	0.000146474	0.001273498
ENSMUSG00000057835	388.7937228	0.398838378	0.153869596	2.592054493	0.009540466	0.0418082
ENSMUSG00000028245	3098.780556	0.398936919	0.099679251	4.00220624	6.28E-05	0.000612736
ENSMUSG00000026126	4420.195275	0.399103761	0.109720556	3.637456596	0.000275344	0.002211973
ENSMUSG00000029260	10203.92127	0.399387652	0.203520311	1.962397021	0.049716279	0.15049854
ENSMUSG00000026425	3204.561249	0.399644861	0.104861041	3.81118531	0.000138302	0.001215238
ENSMUSG00000034653	1616.396902	0.399688989	0.16482927	2.42486659	0.015314013	0.060542069
ENSMUSG00000069274	18914.69146	0.399736511	0.108399454	3.687624761	0.000226357	0.00186686
ENSMUSG00000110834	191.2955053	0.400326035	0.197618194	2.025754952	0.042789902	0.134611033
ENSMUSG00000050957	377.3535845	0.400885313	0.186331961	2.151457596	0.031440099	0.106185924
ENSMUSG00000026670	4720.15397	0.401318208	0.098760449	4.063551872	4.83E-05	0.000488033
ENSMUSG00000020716	11053.06806	0.401894577	0.124130242	3.237684627	0.001205039	0.007737859
ENSMUSG00000045991	13862.4486	0.402536132	0.106567749	3.777279108	0.000158551	0.001364138
ENSMUSG00000041119	3774.847372	0.402907565	0.147959958	2.723085154	0.006467539	0.030583668
ENSMUSG00000086429	613.1486998	0.402995508	0.158385887	2.544390259	0.01094687	0.046588961
ENSMUSG00000103674	327.3380515	0.40311289	0.187154421	2.15390525	0.031247603	0.10567983
ENSMUSG00000046675	716.5806034	0.403778598	0.137033517	2.946568164	0.003213216	0.017356735
ENSMUSG00000021215	11597.00058	0.403892023	0.106135673	3.805431393	0.000141557	0.001239446
ENSMUSG00000032410	4901.496513	0.403913114	0.11487487	3.516113792	0.000437913	0.003316096

ENSMUSG00000024642	4776.552643	0.404227503	0.113776915	3.552807738	0.000381143	0.002938081
ENSMUSG00000020364	258.6448271	0.404864793	0.171793167	2.356699051	0.018438183	0.069942153
ENSMUSG00000075229	1715.777386	0.405065387	0.131141402	3.088768155	0.002009882	0.01183273
ENSMUSG00000038344	2188.098563	0.405122586	0.135576203	2.988154089	0.00280668	0.015585601
ENSMUSG00000016252	7577.535003	0.405770627	0.112406092	3.609863322	0.000306358	0.002431352
ENSMUSG00000088246	984.6337083	0.405934711	0.141758562	2.863563965	0.004189042	0.021480761
ENSMUSG00000014294	3106.592071	0.406016407	0.120593013	3.366831943	0.00076037	0.005269426
ENSMUSG00000028496	2815.04903	0.406241534	0.102077471	3.97973743	6.90E-05	0.000666339
ENSMUSG00000113902	1646.84939	0.40695065	0.140727778	2.89175781	0.003830931	0.01993783
ENSMUSG00000086629	330.7407475	0.406967377	0.179248765	2.27040547	0.023182993	0.083821016
ENSMUSG00000109206	199.2628347	0.406974529	0.198531622	2.049922953	0.04037195	0.128950853
ENSMUSG00000049907	1326.821817	0.407095759	0.143188563	2.843074541	0.004468062	0.022599739
ENSMUSG00000032491	341.4410761	0.40749128	0.17277775	2.358470809	0.018350403	0.069644713
ENSMUSG00000027770	4017.994902	0.40767324	0.10458506	3.898006452	9.70E-05	0.000893771
ENSMUSG00000026360	558.0980266	0.408089249	0.175212283	2.329113245	0.019853067	0.074049716
ENSMUSG00000034342	7412.125993	0.408198697	0.142915449	2.856225129	0.00428711	0.021852994
ENSMUSG00000030494	7785.495808	0.408229227	0.112481214	3.629310301	0.000284179	0.002274762
ENSMUSG00000032599	2383.698364	0.408290992	0.130353496	3.132182907	0.001735117	0.010469387
ENSMUSG00000043801	286.366437	0.408308488	0.202046382	2.020865133	0.043293728	0.135807131
ENSMUSG00000112964	584.788405	0.408702185	0.165369096	2.471454426	0.01345647	0.054641796
ENSMUSG00000031337	1038.262531	0.409179659	0.12442371	3.288598753	0.001006875	0.006680842
ENSMUSG00000032328	3093.188555	0.409309847	0.098659301	4.148720338	3.34E-05	0.000349068
ENSMUSG00000050856	2200.247787	0.409544791	0.120914076	3.38707291	0.000706426	0.004958769
ENSMUSG00000106918	1448.033374	0.409558289	0.116832441	3.50551855	0.000455719	0.003426495
ENSMUSG00000030275	4842.391162	0.409623779	0.107652055	3.805071602	0.000141763	0.001240275
ENSMUSG00000027752	2610.188918	0.409780561	0.113745991	3.602593427	0.000315058	0.002490645
ENSMUSG00000028691	20932.34693	0.409791067	0.120419749	3.403022112	0.000666449	0.004727251
ENSMUSG00000026014	4407.133113	0.410503882	0.114616649	3.581537974	0.000341577	0.002667199
ENSMUSG00000054364	7813.168853	0.410828544	0.134013222	3.065582168	0.002172467	0.012600307

ENSMUSG00000040177	1068.302656	0.41099364	0.15653094	2.625638351	0.008648665	0.038667579
ENSMUSG00000048249	1762.074674	0.411144056	0.188716421	2.178634232	0.029358851	0.10072796
ENSMUSG00000020305	738.2823778	0.411414179	0.140165812	2.935196351	0.003333367	0.017873867
ENSMUSG00000031861	287.0792467	0.411665173	0.200587719	2.052294998	0.040141002	0.128439464
ENSMUSG00000104394	257.9837449	0.411786715	0.20603582	1.998617112	0.045649797	0.141452846
ENSMUSG00000091625	713.6414589	0.412089917	0.167421161	2.461396848	0.013839719	0.055953512
ENSMUSG00000049493	11077.11888	0.412258126	0.116062432	3.552037625	0.00038226	0.002944658
ENSMUSG00000051166	227.3920602	0.412274152	0.179492719	2.296885103	0.021625325	0.079333175
ENSMUSG00000023965	1789.100044	0.412464459	0.110604064	3.72919805	0.00019209	0.00161775
ENSMUSG00000069302	6980.853679	0.412582009	0.139092462	2.966242762	0.003014624	0.01650684
ENSMUSG00000028949	1527.569841	0.412708494	0.156947527	2.629595384	0.008548655	0.038358863
ENSMUSG00000021196	3595.422608	0.412713102	0.140331097	2.940995349	0.003271594	0.017612227
ENSMUSG00000053317	4076.337401	0.41273992	0.133685629	3.087391846	0.002019212	0.01187512
ENSMUSG00000062031	1813.537701	0.412796676	0.128124313	3.221844984	0.00127368	0.008101638
ENSMUSG00000024146	1450.540542	0.412856619	0.105949526	3.89672927	9.75E-05	0.000897279
ENSMUSG00000112302	384.44612	0.412908133	0.148882231	2.773387596	0.0055476	0.027015798
ENSMUSG00000022450	4584.649522	0.413578183	0.110565557	3.740569793	0.000183604	0.001552139
ENSMUSG00000027677	4041.041165	0.414080388	0.128621738	3.219365507	0.001284746	0.008147239
ENSMUSG00000098702	438.8023046	0.414214999	0.14040008	2.950247598	0.003175194	0.017191064
ENSMUSG00000006538	1484.608956	0.41449684	0.204452414	2.027351167	0.042626512	0.134191678
ENSMUSG00000051627	43433.85614	0.414704717	0.129215944	3.209392776	0.001330156	0.008386717
ENSMUSG00000029446	620.6559119	0.41473461	0.143407194	2.892007014	0.003827894	0.019926672
ENSMUSG00000091405	8465.552765	0.41479646	0.135248865	3.066912683	0.00216282	0.012557421
ENSMUSG00000098234	1408.022638	0.414827301	0.144470915	2.871355123	0.004087161	0.021058872
ENSMUSG00000020220	36330.34737	0.414944299	0.108952639	3.808483224	0.000139822	0.001227142
ENSMUSG00000069520	1180.02735	0.415246683	0.136401376	3.044299809	0.002332226	0.013360126
ENSMUSG00000022070	4486.70591	0.415693299	0.10912527	3.809322062	0.000139348	0.001223949
ENSMUSG00000039233	2571.285854	0.416360817	0.111042928	3.749548262	0.000177153	0.001505028
ENSMUSG00000058773	23120.73055	0.416398457	0.136266115	3.05577404	0.002244804	0.012949137



ENSMUSG00000027667	1524.901598	0.416716584	0.150808714	2.7632129	0.005723542	0.027693797
ENSMUSG00000047789	993.6878342	0.417207325	0.125607554	3.321514599	0.000895303	0.006076127
ENSMUSG00000032018	1829.404636	0.417364315	0.126755171	3.292680772	0.000992371	0.006600758
ENSMUSG00000056749	1326.077174	0.417381168	0.201033001	2.07618235	0.037877089	0.122740041
ENSMUSG00000068323	2633.950459	0.418164292	0.211009867	1.981728615	0.047509623	0.14570408
ENSMUSG00000037475	7381.970123	0.418918064	0.139016972	3.013431073	0.002583117	0.014561251
ENSMUSG00000026730	1090.381615	0.41930321	0.129302627	3.242805037	0.001183592	0.007626489
ENSMUSG00000025979	2182.125807	0.419354392	0.111567301	3.75875715	0.000170759	0.001459045
ENSMUSG00000034610	2055.397283	0.419423851	0.12905867	3.249869628	0.001154579	0.007482788
ENSMUSG00000063455	581.0155278	0.419885919	0.184577418	2.274849888	0.022914936	0.083015887
ENSMUSG00000027708	2107.912638	0.419975839	0.099412728	4.224568111	2.39E-05	0.000259042
ENSMUSG00000097769	1233.723201	0.420209365	0.162028574	2.593427534	0.009502456	0.041690788
ENSMUSG00000112150	178.6249821	0.420281701	0.210903185	1.992770766	0.046286554	0.142870096
ENSMUSG00000028274	2425.920204	0.420552013	0.12369233	3.399984573	0.000673897	0.004763413
ENSMUSG00000052906	1251.515028	0.421483982	0.154745734	2.723719555	0.006455129	0.030537938
ENSMUSG00000044340	10487.16415	0.421542948	0.09858219	4.276055842	1.90E-05	0.00021212
ENSMUSG00000112627	219.4477025	0.421675225	0.198378648	2.125607921	0.03353592	0.111799895
ENSMUSG00000055320	4370.394096	0.421706057	0.113819103	3.705055173	0.000211345	0.00175997
ENSMUSG00000071252	516.3097306	0.421850575	0.18376784	2.295562575	0.021700905	0.079531943
ENSMUSG00000023348	1969.66108	0.421877627	0.120587819	3.498509473	0.000467866	0.003504834
ENSMUSG00000035637	1544.23038	0.422773738	0.125516503	3.368272118	0.000756409	0.005246867
ENSMUSG00000014932	7133.749873	0.423084816	0.112599098	3.757444103	0.000171658	0.001463915
ENSMUSG00000073867	475.0220179	0.423195328	0.158284571	2.673635994	0.007503385	0.034524464
ENSMUSG00000006395	856.4130936	0.423286793	0.160590999	2.635806459	0.008393759	0.037777845
ENSMUSG00000029364	3709.689402	0.42329289	0.10585112	3.998945797	6.36E-05	0.000620423
ENSMUSG00000071793	1387.757129	0.423916769	0.138085832	3.06995122	0.002140937	0.012443327
ENSMUSG00000000127	1687.534272	0.424214972	0.128303266	3.306345848	0.000945213	0.00633961
ENSMUSG00000042742	762.3797025	0.424326111	0.123200377	3.444194899	0.000572763	0.00415118
ENSMUSG00000031490	1237.107483	0.424444487	0.18122214	2.342122697	0.01917441	0.072097205

ENSMUSG00000069208	459.0782374	0.424947988	0.167941902	2.530327355	0.011395615	0.048076258
ENSMUSG00000015247	1667.017461	0.425260404	0.107495265	3.956084983	7.62E-05	0.000725352
ENSMUSG00000033307	7177.015245	0.42532404	0.141401322	3.007921236	0.002630413	0.014794663
ENSMUSG00000017418	2088.680479	0.425760633	0.121819716	3.495005958	0.000474051	0.003541864
ENSMUSG00000063275	2089.499834	0.426203045	0.104452175	4.080365451	4.50E-05	0.000457256
ENSMUSG00000034269	16792.98825	0.426644402	0.107268615	3.977346065	6.97E-05	0.00067162
ENSMUSG00000062014	3246.501296	0.426948705	0.137445408	3.106314794	0.001894349	0.011262566
ENSMUSG00000053398	5178.829009	0.427059365	0.142347518	3.000118104	0.002698749	0.015095262
ENSMUSG00000030452	2086.736277	0.427126125	0.125957264	3.391040035	0.000696279	0.004896495
ENSMUSG00000029276	731.7338178	0.427484485	0.145833226	2.931324337	0.003375202	0.018063446
ENSMUSG00000034858	1141.569774	0.427633944	0.161268811	2.651684117	0.008009143	0.03637717
ENSMUSG00000043929	629.0519797	0.428040194	0.144578416	2.960609237	0.003070312	0.016761575
ENSMUSG00000029402	490.6240035	0.428550866	0.135205798	3.169619006	0.001526389	0.009414094
ENSMUSG00000025809	11457.7974	0.428560061	0.109243604	3.922976226	8.75E-05	0.000816786
ENSMUSG00000042215	316.6409248	0.429310898	0.205791169	2.086148303	0.036965191	0.120330982
ENSMUSG00000075706	6339.230633	0.429718508	0.128000506	3.357162579	0.000787468	0.005420908
ENSMUSG00000040033	2068.031864	0.430225434	0.151044323	2.848338993	0.004394808	0.022310181
ENSMUSG00000110458	327.7040998	0.430441977	0.163124172	2.638738161	0.008321523	0.037543653
ENSMUSG00000030657	1848.010094	0.430529378	0.120287909	3.579157555	0.000344704	0.002688785
ENSMUSG00000012519	1113.522073	0.43059844	0.143227298	3.006399253	0.002643616	0.014850199
ENSMUSG00000031790	6260.202851	0.430745736	0.123824078	3.478691259	0.000503869	0.003736873
ENSMUSG00000032192	270.6819425	0.431051828	0.185207515	2.327399226	0.019944027	0.074289585
ENSMUSG00000049775	29170.82109	0.431176696	0.111787665	3.857104396	0.000114738	0.001031349
ENSMUSG00000035929	6595.686421	0.431350685	0.174023423	2.478693262	0.013186465	0.053770591
ENSMUSG00000034427	18590.57693	0.431454748	0.13751074	3.137607647	0.001703327	0.010311047
ENSMUSG00000022817	500.1345394	0.431975628	0.189026283	2.285267539	0.022297145	0.081302916
ENSMUSG00000028550	1158.671976	0.432715891	0.137977826	3.136126322	0.001711954	0.01036046
ENSMUSG00000039456	4922.858296	0.43274388	0.124152472	3.485584097	0.000491064	0.00365284
ENSMUSG00000053453	4861.410264	0.432941416	0.096115185	4.504401849	6.66E-06	8.31E-05

ENSMUSG00000033577	25392.44301	0.433016811	0.110248237	3.927652939	8.58E-05	0.000804777
ENSMUSG00000052681	3266.836159	0.433385588	0.105156379	4.121343761	3.77E-05	0.000388533
ENSMUSG00000105199	508.9860164	0.433426818	0.179974819	2.408263671	0.0160286	0.062687957
ENSMUSG00000003528	8032.74513	0.43359541	0.113986831	3.803907927	0.000142431	0.001244654
ENSMUSG00000051379	1711.54716	0.434295757	0.200213108	2.169167447	0.030069974	0.102474096
ENSMUSG00000055415	11168.1913	0.434300554	0.156276933	2.779044522	0.005451905	0.026622058
ENSMUSG00000079658	2096.453194	0.434330214	0.133933328	3.242883766	0.001183265	0.007626489
ENSMUSG00000058056	2927.674578	0.434530566	0.121301295	3.582241761	0.000340658	0.002662818
ENSMUSG00000045205	1531.335501	0.434645571	0.122164815	3.557862156	0.000373885	0.002890128
ENSMUSG00000053253	4387.746086	0.43531678	0.136628569	3.186132901	0.001441883	0.008974447
ENSMUSG00000071637	2745.042161	0.435492131	0.165579041	2.630116277	0.008535567	0.038307844
ENSMUSG00000025017	2008.187525	0.436010099	0.153129794	2.847323749	0.00440885	0.022364448
ENSMUSG00000025314	5358.326222	0.436607702	0.125003232	3.492771323	0.000478036	0.003566636
ENSMUSG00000036372	1861.160424	0.436929148	0.146700373	2.978377901	0.002897785	0.015984045
ENSMUSG00000018362	7225.303795	0.437227751	0.103065976	4.242212288	2.21E-05	0.000241715
ENSMUSG00000049791	502.7017706	0.437767661	0.170741517	2.563920415	0.010349727	0.044574984
ENSMUSG00000018001	1287.610064	0.438079213	0.141118306	3.10434008	0.00190704	0.011325938
ENSMUSG00000029385	3504.109852	0.438132375	0.195180135	2.244759047	0.024783605	0.088431868
ENSMUSG00000020521	1409.519048	0.438308844	0.108780132	4.029309733	5.59E-05	0.000552497
ENSMUSG00000019942	5063.656971	0.438654443	0.102148545	4.294279896	1.75E-05	0.000198099
ENSMUSG00000063406	2017.647694	0.439254053	0.134976922	3.254290038	0.001136762	0.00738448
ENSMUSG00000114279	9146.634852	0.439319722	0.139411041	3.151254872	0.001625706	0.009933172
ENSMUSG00000040560	1826.031227	0.439550492	0.129289481	3.399739015	0.000674502	0.004766182
ENSMUSG00000020131	626.7074075	0.440869048	0.174608723	2.524897047	0.011573219	0.048568753
ENSMUSG00000042622	1729.34915	0.441160794	0.222790017	1.980164102	0.047685092	0.14603926
ENSMUSG00000024661	40881.4549	0.441728868	0.131030967	3.371179172	0.000748472	0.005201516
ENSMUSG00000022184	597.1979319	0.442382776	0.141504918	3.126271391	0.001770381	0.010645701
ENSMUSG00000068523	4005.792088	0.442450608	0.099567909	4.443706923	8.84E-06	0.000106532
ENSMUSG00000113769	276.6458972	0.442551629	0.176098088	2.5130973	0.011967632	0.04986737

ENSMUSG00000029084	5128.368157	0.443284743	0.096656771	4.586173736	4.51E-06	5.89E-05
ENSMUSG00000048410	4840.450081	0.443388608	0.128616012	3.447382646	0.000566046	0.004109179
ENSMUSG00000031530	3029.708709	0.443653729	0.155192697	2.858728139	0.004253431	0.021726013
ENSMUSG00000033985	693.0835124	0.443694181	0.18848495	2.354003225	0.01857245	0.070260255
ENSMUSG00000097536	423.3995832	0.444118463	0.179481409	2.474453848	0.013344006	0.054248537
ENSMUSG00000096401	503.5732024	0.444622125	0.147030663	3.024009522	0.002494486	0.014133519
ENSMUSG00000107362	205.5624109	0.446009976	0.225103914	1.981351492	0.04755187	0.145786946
ENSMUSG00000028573	608.2848201	0.446058981	0.167938074	2.656092043	0.007905203	0.035978356
ENSMUSG00000044155	1760.753716	0.446747039	0.111538213	4.005327221	6.19E-05	0.000605497
ENSMUSG00000030424	472.3057795	0.446980838	0.144158585	3.100618929	0.001931166	0.011450929
ENSMUSG00000021936	1855.93487	0.447116637	0.106569598	4.195536511	2.72E-05	0.000290197
ENSMUSG00000030850	2185.920672	0.447327734	0.105407202	4.243806166	2.20E-05	0.000240357
ENSMUSG00000064380	296.8790639	0.447336956	0.161353959	2.772395293	0.005564542	0.027041806
ENSMUSG00000031600	2454.492821	0.447489911	0.115197967	3.88452958	0.000102528	0.000937083
ENSMUSG00000038365	1767.518342	0.447606281	0.158018315	2.832622798	0.004616783	0.023220315
ENSMUSG00000020386	2141.831869	0.447873864	0.098813322	4.532525122	5.83E-06	7.39E-05
ENSMUSG00000042208	1148.681984	0.447914108	0.12391924	3.61456467	0.000300853	0.002396819
ENSMUSG00000021621	1262.864998	0.447987559	0.117085278	3.826164706	0.000130155	0.001152737
ENSMUSG00000054099	479.0289279	0.448019748	0.146626028	3.055526719	0.002246656	0.012956471
ENSMUSG00000031458	641.7094585	0.448204453	0.148522559	3.017753366	0.002546561	0.014399303
ENSMUSG00000016262	251.1740251	0.448505975	0.174473207	2.570629516	0.010151386	0.043881772
ENSMUSG00000073647	652.7020977	0.448831093	0.13893334	3.230549945	0.001235523	0.007890436
ENSMUSG00000025289	2965.105018	0.448913866	0.105927127	4.237949987	2.26E-05	0.000245358
ENSMUSG00000027615	1254.809046	0.449259632	0.139476578	3.221039962	0.001277263	0.008119798
ENSMUSG00000026767	975.9277499	0.449300371	0.118318662	3.797375369	0.000146236	0.001271925
ENSMUSG00000037410	3782.613407	0.449568678	0.108873349	4.129281237	3.64E-05	0.000377281
ENSMUSG00000068184	756.0104863	0.449898636	0.12580194	3.576245622	0.000348564	0.002716048
ENSMUSG00000024725	2346.885063	0.450163236	0.102513561	4.391255493	1.13E-05	0.000132487
ENSMUSG00000032501	10721.21453	0.45029758	0.133285121	3.378453473	0.000728948	0.005084849

ENSMUSG00000026034	14566.99476	0.450349895	0.124167738	3.626947737	0.000286791	0.002294845
ENSMUSG00000086316	608.8006863	0.450583693	0.132412426	3.402880725	0.000666794	0.004728194
ENSMUSG00000101972	9143.054884	0.451042724	0.111077535	4.060611591	4.89E-05	0.00049278
ENSMUSG00000026426	846.1549345	0.451079379	0.136234577	3.311049148	0.000929469	0.006262261
ENSMUSG00000020225	1300.670305	0.451195994	0.126159194	3.576402014	0.000348356	0.002715373
ENSMUSG00000036989	552.3565515	0.451264671	0.140180866	3.219160254	0.001285666	0.008149983
ENSMUSG00000020817	4389.565096	0.45158978	0.114968643	3.927938699	8.57E-05	0.00080416
ENSMUSG00000025326	6279.630982	0.451770239	0.105285927	4.290889134	1.78E-05	0.000200742
ENSMUSG00000024163	7006.129007	0.451785359	0.106052768	4.260005361	2.04E-05	0.000225684
ENSMUSG00000005615	2616.731914	0.452080563	0.123278633	3.667144504	0.000245274	0.001998487
ENSMUSG00000038535	3600.25057	0.452221353	0.117433115	3.850884406	0.000117692	0.001053653
ENSMUSG00000061474	705.4827368	0.452639882	0.176450874	2.565245905	0.010310271	0.044430791
ENSMUSG00000005667	2213.233998	0.452830602	0.132807847	3.409667524	0.000650421	0.004628284
ENSMUSG00000084957	1198.313791	0.452966359	0.10937476	4.141415812	3.45E-05	0.000359198
ENSMUSG00000056342	18145.05543	0.453248425	0.133066484	3.406180226	0.000658787	0.004681837
ENSMUSG00000031255	606.1669054	0.453300847	0.15903957	2.850239386	0.004368634	0.022212699
ENSMUSG00000032966	6369.946488	0.453467864	0.116223228	3.901697393	9.55E-05	0.000882072
ENSMUSG00000056763	5616.663466	0.453482008	0.114370697	3.965019191	7.34E-05	0.000703038
ENSMUSG00000020128	4632.157064	0.454204408	0.134799851	3.369472624	0.000753122	0.005227316
ENSMUSG00000040415	357.3803195	0.454220102	0.219873569	2.065824031	0.038845098	0.125294263
ENSMUSG00000025035	260.5608452	0.454341459	0.179034476	2.537731663	0.01115735	0.047250295
ENSMUSG00000025198	2321.570502	0.454517606	0.132423778	3.432296016	0.000598494	0.004319422
ENSMUSG00000049823	1300.455205	0.454592452	0.112159125	4.053102697	5.05E-05	0.000506278
ENSMUSG00000023030	3027.845963	0.454798796	0.103047381	4.413492026	1.02E-05	0.000120723
ENSMUSG00000018604	3592.966242	0.455107226	0.13818551	3.293451144	0.000989655	0.006592086
ENSMUSG00000070661	6936.478576	0.455264291	0.118262621	3.849604281	0.000118309	0.001057901
ENSMUSG00000015889	12294.64577	0.455427186	0.090472433	5.03387797	4.81E-07	7.77E-06
ENSMUSG00000075704	1973.3235	0.456020541	0.108711235	4.194787616	2.73E-05	0.000291018
ENSMUSG00000025006	788.5593737	0.456047959	0.16246189	2.807107314	0.004998859	0.024819865

ENSMUSG00000028300	504.8144434	0.456170769	0.137786911	3.31069741	0.000930638	0.006268243
ENSMUSG00000006638	353.7973	0.456649003	0.174932362	2.610431812	0.0090428	0.040060286
ENSMUSG00000037072	6960.946187	0.456863478	0.100465146	4.547482326	5.43E-06	6.91E-05
ENSMUSG00000061111	1487.938494	0.457249126	0.118185525	3.868909711	0.000109323	0.000989454
ENSMUSG00000019256	2282.730446	0.457916806	0.111038412	4.123949537	3.72E-05	0.000385052
ENSMUSG00000039629	1204.926201	0.458001621	0.185197221	2.473048028	0.013396614	0.054428472
ENSMUSG00000028519	2636.473147	0.458439062	0.214197581	2.140262555	0.032333554	0.108725964
ENSMUSG00000097277	287.1823558	0.458968467	0.194663985	2.357747208	0.018386209	0.069768733
ENSMUSG00000024338	6776.004788	0.459665636	0.206374981	2.227332174	0.025925082	0.091552692
ENSMUSG00000024145	743.3184773	0.459856495	0.161414342	2.848919671	0.004386795	0.022284721
ENSMUSG00000037139	773.1273398	0.459992045	0.200996162	2.28856133	0.022104853	0.080707322
ENSMUSG00000028756	3392.590603	0.460033821	0.155086125	2.966311917	0.003013946	0.01650684
ENSMUSG00000059811	7023.792657	0.460145942	0.135697431	3.390970191	0.000696457	0.004896495
ENSMUSG00000036053	2988.842514	0.460151856	0.15505497	2.967669182	0.003000671	0.016450183
ENSMUSG00000037646	17085.45529	0.460734716	0.135016077	3.412443366	0.000643833	0.004588725
ENSMUSG00000024640	1602.891771	0.460889443	0.163950635	2.811147663	0.004936512	0.024600931
ENSMUSG00000069273	21666.15448	0.46095527	0.122942089	3.749369102	0.00017728	0.00150553
ENSMUSG00000072761	320.6986146	0.461047449	0.167685888	2.74947077	0.005969159	0.028615264
ENSMUSG00000046785	3151.360582	0.461418974	0.132754614	3.475728338	0.000509468	0.003770875
ENSMUSG00000025920	1667.102429	0.461499723	0.125964662	3.663723753	0.000248575	0.002020214
ENSMUSG00000054169	2376.454714	0.461508708	0.182277914	2.531895923	0.011344766	0.047880323
ENSMUSG00000029161	1447.048179	0.461741616	0.180415708	2.559320476	0.010487701	0.044995425
ENSMUSG00000028874	614.8243934	0.462029621	0.156239769	2.957183211	0.003104636	0.016891067
ENSMUSG00000030042	1673.308281	0.462209454	0.105650607	4.374886881	1.21E-05	0.000142155
ENSMUSG00000023249	607.2900001	0.46226728	0.179382537	2.576991533	0.009966439	0.043266802
ENSMUSG00000050931	2705.983355	0.462495553	0.135691773	3.408427376	0.000653385	0.004647889
ENSMUSG00000035372	776.8170755	0.462622401	0.14007713	3.302626206	0.00095784	0.006412724
ENSMUSG00000041695	1032.525289	0.462804096	0.204316569	2.265132472	0.023504551	0.084763099
ENSMUSG00000047246	8543.678919	0.462884423	0.127914528	3.618700935	0.000296086	0.00236328

ENSMUSG00000064090	923.9328928	0.463555559	0.125726713	3.687009286	0.000226905	0.001870688
ENSMUSG00000106475	462.7066367	0.463844782	0.173182325	2.678360978	0.007398344	0.03416659
ENSMUSG00000104214	268.11798	0.464461992	0.191132017	2.430058546	0.015096384	0.059808929
ENSMUSG00000022280	2149.470985	0.464553738	0.117421812	3.956281473	7.61E-05	0.000725192
ENSMUSG00000025189	1238.460719	0.464844848	0.152453913	3.049084389	0.0022954	0.013183032
ENSMUSG00000031169	268.4463973	0.465174603	0.18525298	2.511023586	0.012038165	0.050058386
ENSMUSG00000020859	7738.923739	0.465950569	0.117570391	3.963162519	7.40E-05	0.000707315
ENSMUSG00000078671	11748.29594	0.466118753	0.111411468	4.183759178	2.87E-05	0.000304346
ENSMUSG00000014782	190.5390737	0.466272711	0.19907514	2.342194562	0.019170718	0.072097205
ENSMUSG00000021895	440.9947623	0.46630821	0.195615212	2.383803418	0.017134753	0.066008312
ENSMUSG00000005089	1100.980675	0.466487941	0.229983332	2.028355435	0.042523985	0.13390672
ENSMUSG00000015733	5100.36085	0.466707646	0.105067385	4.441984036	8.91E-06	0.000107272
ENSMUSG00000050029	1362.084893	0.46678518	0.106261764	4.39278593	1.12E-05	0.000131835
ENSMUSG00000039364	2738.416636	0.467697111	0.155988785	2.99827396	0.002715135	0.015179299
ENSMUSG00000052565	25186.15609	0.46771288	0.108475102	4.311707216	1.62E-05	0.000184606
ENSMUSG00000022040	3920.742261	0.46775337	0.162711365	2.874743083	0.004043564	0.020864303
ENSMUSG00000032220	6934.284586	0.467951077	0.198542775	2.35692826	0.018426806	0.06991089
ENSMUSG00000035293	3300.63304	0.468018632	0.14803132	3.161618981	0.001568947	0.009638867
ENSMUSG00000036391	5973.997092	0.468037893	0.095609287	4.895318324	9.81E-07	1.48E-05
ENSMUSG00000043467	1537.674233	0.468198408	0.138712888	3.375305754	0.000737337	0.005136944
ENSMUSG00000016308	1710.932256	0.46821344	0.121079608	3.866988411	0.000110188	0.000996066
ENSMUSG00000017929	1844.742429	0.468492269	0.145117191	3.228371946	0.00124497	0.007939397
ENSMUSG00000104814	140.0294394	0.468740864	0.225861835	2.075343383	0.037954721	0.122938016
ENSMUSG00000022452	2933.833236	0.468758077	0.121139636	3.869568157	0.000109028	0.00098839
ENSMUSG00000026082	3094.492214	0.468898086	0.116130954	4.037666685	5.40E-05	0.000535795
ENSMUSG00000007041	8336.7659	0.468964672	0.138321345	3.390399875	0.000697907	0.004905148
ENSMUSG00000022848	1928.949439	0.469089385	0.130934924	3.582614714	0.000340172	0.002659951
ENSMUSG00000096975	171.5461815	0.47000074	0.217240601	2.163503226	0.030502496	0.103631347
ENSMUSG00000031639	1231.037257	0.470300321	0.179008407	2.627252699	0.008607738	0.038554162

ENSMUSG00000033114	262.7302545	0.470551936	0.170008555	2.767813284	0.005643378	0.027371241
ENSMUSG00000034371	6475.519163	0.470587354	0.144037956	3.267106588	0.001086528	0.007132956
ENSMUSG00000086942	163.9472785	0.471171525	0.214524559	2.196352378	0.028066731	0.097297712
ENSMUSG00000040651	3757.849584	0.471347125	0.145025456	3.250099255	0.001153647	0.007481096
ENSMUSG00000027087	2022.849601	0.471563625	0.102815221	4.586515682	4.51E-06	5.89E-05
ENSMUSG00000085502	302.2658387	0.471673579	0.223877799	2.106833184	0.035132042	0.115762362
ENSMUSG00000035000	8347.651304	0.472150244	0.116950817	4.037169271	5.41E-05	0.000536693
ENSMUSG00000071528	5393.678619	0.472341657	0.128160995	3.685533641	0.000228224	0.001880865
ENSMUSG00000038422	1956.698307	0.472509338	0.206570593	2.287398853	0.022172553	0.080901523
ENSMUSG00000026721	7707.639977	0.472904787	0.103362951	4.575186581	4.76E-06	6.18E-05
ENSMUSG00000073481	13296.31411	0.473108732	0.12398599	3.815824124	0.000135729	0.001193571
ENSMUSG00000021134	33158.6921	0.473384193	0.11164602	4.240045411	2.23E-05	0.000243702
ENSMUSG00000040472	3095.051103	0.473700771	0.113118064	4.187666875	2.82E-05	0.000299583
ENSMUSG00000090946	1350.102427	0.473782628	0.134132713	3.532193	0.000412128	0.003146483
ENSMUSG00000042492	3446.410412	0.474020741	0.103854089	4.564295421	5.01E-06	6.48E-05
ENSMUSG00000054150	198.4122701	0.47414363	0.222732341	2.128759696	0.033274147	0.111109309
ENSMUSG00000039007	2232.593338	0.474150906	0.111713878	4.244333046	2.19E-05	0.00023991
ENSMUSG00000031176	1826.002914	0.47416725	0.101783752	4.658575086	3.18E-06	4.29E-05
ENSMUSG00000000296	333.886092	0.474212009	0.190412915	2.490440356	0.012758491	0.052370164
ENSMUSG00000041189	161.5073902	0.474806641	0.237800734	1.99665759	0.045862392	0.141910621
ENSMUSG00000030086	847.0685759	0.475225732	0.140104488	3.391937973	0.000694001	0.004885394
ENSMUSG00000096954	876.1418034	0.475381907	0.150342223	3.161998656	0.001566903	0.009629402
ENSMUSG00000037652	5960.9121	0.475551707	0.098588856	4.823584786	1.41E-06	2.05E-05
ENSMUSG00000103732	163.8584538	0.475563918	0.22195549	2.142609398	0.032144476	0.108188041
ENSMUSG00000029810	7350.553286	0.475727294	0.128768832	3.694428889	0.000220382	0.001825679
ENSMUSG00000063179	1375.457063	0.475814712	0.114473077	4.156564361	3.23E-05	0.00033857
ENSMUSG00000061244	2965.041182	0.475832643	0.097343267	4.888192636	1.02E-06	1.53E-05
ENSMUSG00000000355	1171.591083	0.476360146	0.120105276	3.966188352	7.30E-05	0.000700804
ENSMUSG00000102758	495.8765291	0.476627966	0.187596782	2.540704386	0.011062941	0.046939622



ENSMUSG00000011831	4565.148334	0.477163106	0.112371427	4.246302789	2.17E-05	0.000238439
ENSMUSG00000028603	7410.811933	0.477261919	0.113073513	4.220810939	2.43E-05	0.00026276
ENSMUSG00000022338	2812.721377	0.477288555	0.109657536	4.35253765	1.35E-05	0.000156143
ENSMUSG00000049411	235.8961631	0.478168365	0.18189471	2.62881952	0.008568182	0.038431019
ENSMUSG00000024383	3199.023974	0.478203662	0.116077878	4.119679567	3.79E-05	0.000391169
ENSMUSG00000067455	7076.933589	0.478556467	0.120302212	3.97795236	6.95E-05	0.000670557
ENSMUSG00000103899	462.7224928	0.478926486	0.209123241	2.290163843	0.022011821	0.080420316
ENSMUSG00000067916	383.6622501	0.479054068	0.154691805	3.096829008	0.001956027	0.011576792
ENSMUSG00000090863	124.1355476	0.479054184	0.227700855	2.103875211	0.035389334	0.116420937
ENSMUSG00000020580	8902.511742	0.479854436	0.139842604	3.43138945	0.000600498	0.004325485
ENSMUSG00000032766	549.8955375	0.480061733	0.147762031	3.248884233	0.001158586	0.007499185
ENSMUSG00000110830	125.5839122	0.480391384	0.231632727	2.073935707	0.038085282	0.123265138
ENSMUSG00000012076	1038.958782	0.480687187	0.130026013	3.696854	0.000218288	0.001813049
ENSMUSG00000097235	151.3461101	0.480978573	0.209814965	2.29239403	0.021882916	0.080028028
ENSMUSG00000026388	174.419888	0.481027657	0.20219543	2.379023396	0.017358574	0.06668623
ENSMUSG00000035181	7959.901103	0.481819402	0.145779567	3.305123011	0.000949347	0.006363508
ENSMUSG00000035597	4736.658044	0.482054553	0.1078978	4.467695859	7.91E-06	9.66E-05
ENSMUSG00000003948	1090.590005	0.482206347	0.209064206	2.306498836	0.021082775	0.077700705
ENSMUSG00000103672	109.4827577	0.482401194	0.245476324	1.965163832	0.049395279	0.149829521
ENSMUSG00000035840	1102.651853	0.483615987	0.115367035	4.191977241	2.77E-05	0.000294226
ENSMUSG00000029086	31448.76326	0.484066771	0.113524758	4.26397536	2.01E-05	0.000222149
ENSMUSG00000043153	505.9267337	0.484286463	0.149407915	3.241370868	0.001189563	0.007658148
ENSMUSG00000032369	2303.558308	0.484383377	0.104019619	4.656654034	3.21E-06	4.32E-05
ENSMUSG00000071796	672.7345852	0.484721656	0.155291162	3.12137309	0.001800098	0.010788495
ENSMUSG00000106092	158.3550339	0.484806862	0.224303666	2.161386263	0.030665514	0.104135343
ENSMUSG00000082436	188.9672856	0.484818074	0.226908905	2.136619864	0.032628923	0.109620007
ENSMUSG00000050777	357.3808826	0.484948596	0.214733306	2.258376238	0.023922213	0.085963466
ENSMUSG00000037936	658.4553635	0.486591189	0.14712539	3.307323032	0.000941922	0.006328735
ENSMUSG00000031939	33318.00652	0.486640913	0.102397247	4.752480434	2.01E-06	2.83E-05

ENSMUSG00000021124	3380.073542	0.486836035	0.097559595	4.990139978	6.03E-07	9.45E-06
ENSMUSG00000029152	5881.033865	0.486975287	0.116026116	4.197117893	2.70E-05	0.000288455
ENSMUSG00000108268	221.644758	0.487748052	0.190268236	2.563475977	0.010362987	0.044606249
ENSMUSG00000032352	3779.546346	0.487839232	0.142477597	3.423971498	0.000617131	0.004426709
ENSMUSG00000105167	344.9815585	0.488270853	0.198450461	2.460416819	0.013877574	0.056096388
ENSMUSG00000005656	4901.733771	0.488593837	0.116628318	4.189324218	2.80E-05	0.000297545
ENSMUSG00000114104	629.729073	0.488701837	0.174917028	2.793906583	0.005207552	0.025681914
ENSMUSG00000021140	18445.8198	0.489373863	0.108880197	4.494608554	6.97E-06	8.66E-05
ENSMUSG00000024521	4913.015526	0.489465091	0.143295494	3.415774482	0.000636009	0.004543125
ENSMUSG00000061808	1116.134158	0.489555561	0.240785302	2.033162352	0.042036123	0.132858218
ENSMUSG00000020092	153.3833323	0.489593317	0.225280979	2.173256343	0.029761029	0.101635165
ENSMUSG00000038412	1426.072623	0.489688086	0.106345709	4.60468118	4.13E-06	5.45E-05
ENSMUSG00000020570	13589.79668	0.48977548	0.107760429	4.545040166	5.49E-06	6.98E-05
ENSMUSG00000046782	688.1461118	0.490528203	0.164165365	2.988012744	0.002807978	0.015588929
ENSMUSG00000102635	122.6747585	0.491141548	0.233221027	2.105905943	0.035212523	0.11595902
ENSMUSG00000005501	4672.089556	0.491506584	0.127258064	3.862282424	0.000112333	0.001013402
ENSMUSG00000078974	2992.182052	0.491542137	0.15462705	3.178888422	0.00147841	0.009158675
ENSMUSG00000031613	1734.227671	0.491968029	0.191667579	2.566777492	0.010264846	0.044277819
ENSMUSG00000085154	181.7814811	0.492111313	0.216322277	2.274898911	0.022911995	0.083015887
ENSMUSG00000037325	474.1700825	0.492436532	0.160103649	3.075735847	0.002099838	0.012252351
ENSMUSG00000025647	1982.037972	0.492721652	0.119069374	4.138105674	3.50E-05	0.000363909
ENSMUSG00000078578	17748.58322	0.493008337	0.095100285	5.184088943	2.17E-07	3.79E-06
ENSMUSG00000019122	1618.845198	0.493180932	0.223706131	2.204592831	0.027482679	0.095726738
ENSMUSG00000021108	372.5031685	0.493493523	0.158444611	3.114612236	0.001841869	0.010997894
ENSMUSG00000003123	1170.165019	0.494370691	0.162208948	3.047739957	0.002305694	0.013228524
ENSMUSG00000026342	1635.263843	0.494507983	0.141079931	3.505161792	0.00045633	0.00342939
ENSMUSG00000107286	160.0529491	0.4948564	0.227802566	2.17230389	0.029832749	0.101821263
ENSMUSG00000029238	7695.888799	0.494973889	0.10993586	4.502387934	6.72E-06	8.37E-05
ENSMUSG00000018770	18534.1673	0.495566551	0.1049698	4.721039278	2.35E-06	3.25E-05

ENSMUSG00000028383	1064.374241	0.495755315	0.126292981	3.92543839	8.66E-05	0.000810219
ENSMUSG00000022755	7398.752831	0.496125502	0.127257163	3.898605725	9.67E-05	0.000891931
ENSMUSG00000032842	4294.459398	0.496252296	0.148905032	3.332676473	0.000860149	0.005873295
ENSMUSG00000101037	187.1904545	0.496459719	0.234691909	2.115367853	0.034398607	0.113968704
ENSMUSG00000038451	370.7905358	0.496465537	0.214815895	2.311121048	0.02082617	0.076958477
ENSMUSG00000024299	138.1385711	0.496619982	0.226708148	2.190569622	0.028482951	0.098388832
ENSMUSG00000039105	2421.287204	0.496779973	0.130189331	3.815827058	0.000135728	0.001193571
ENSMUSG00000034738	1503.201603	0.49743647	0.1361149	3.654533553	0.00025765	0.00208183
ENSMUSG00000063077	9646.749535	0.497469863	0.103277815	4.816812448	1.46E-06	2.12E-05
ENSMUSG00000004356	10409.60775	0.497555929	0.154495518	3.220520156	0.001279582	0.008129902
ENSMUSG00000035473	4167.922873	0.497711872	0.129820778	3.833838299	0.000126159	0.001122247
ENSMUSG00000041353	478.2906255	0.497736666	0.142591637	3.490644171	0.000481858	0.003590346
ENSMUSG00000044252	1460.152082	0.497833571	0.130726	3.808221569	0.00013997	0.001227957
ENSMUSG00000027428	852.0616013	0.498003318	0.140255723	3.550680904	0.000384236	0.002954775
ENSMUSG00000026568	4702.56113	0.49800603	0.102832204	4.842899498	1.28E-06	1.88E-05
ENSMUSG00000005774	2273.17424	0.498489833	0.125142142	3.983389016	6.79E-05	0.000657888
ENSMUSG00000035992	2161.586371	0.498817986	0.129726372	3.845154816	0.000120476	0.001075127
ENSMUSG00000021876	5957.541678	0.499016965	0.160393101	3.111212153	0.00186321	0.011112985
ENSMUSG00000045282	574.0761624	0.499170729	0.168710213	2.958746362	0.003088932	0.016821512
ENSMUSG00000074403	10865.94167	0.499501607	0.146860081	3.401207492	0.000670889	0.004745161
ENSMUSG00000016427	2410.947109	0.500664384	0.123211648	4.063450117	4.84E-05	0.000488033
ENSMUSG00000033713	6665.562099	0.500792813	0.115374177	4.340597061	1.42E-05	0.000164106
ENSMUSG00000026576	63110.31173	0.500826024	0.105476184	4.748237991	2.05E-06	2.89E-05
ENSMUSG00000027835	1764.512807	0.501074031	0.111637461	4.48840405	7.18E-06	8.87E-05
ENSMUSG00000021770	1448.514577	0.50162399	0.111260965	4.508535328	6.53E-06	8.17E-05
ENSMUSG00000029644	1188.514219	0.501863912	0.121255074	4.1389106	3.49E-05	0.000362973
ENSMUSG00000020576	7303.97155	0.502238632	0.100568705	4.993985254	5.91E-07	9.29E-06
ENSMUSG00000042632	2043.455534	0.502539825	0.12759985	3.938404517	8.20E-05	0.000773465
ENSMUSG00000021714	698.663142	0.502719423	0.1561397	3.219677151	0.00128335	0.008144564

ENSMUSG00000054509	4381.87095	0.503585175	0.10932838	4.606170665	4.10E-06	5.42E-05
ENSMUSG00000030759	675.7178309	0.503739889	0.156105842	3.226912465	0.001251337	0.007975443
ENSMUSG00000031214	1340.903193	0.504809122	0.121074043	4.169424839	3.05E-05	0.000322293
ENSMUSG00000031661	1038.881259	0.50483232	0.186787398	2.702710816	0.006877655	0.032161584
ENSMUSG00000108211	163.3542472	0.505445207	0.228755747	2.209541024	0.027137032	0.094903345
ENSMUSG00000006050	4913.117241	0.505468374	0.145630594	3.470894124	0.000518728	0.003823437
ENSMUSG00000021838	121.6707438	0.505561366	0.229967967	2.198399075	0.02792068	0.096896837
ENSMUSG00000021213	3582.91428	0.505628657	0.157229572	3.215862334	0.001300532	0.008230183
ENSMUSG00000030557	2423.985141	0.505971206	0.101576609	4.981178337	6.32E-07	9.89E-06
ENSMUSG00000073079	262.4325181	0.506514475	0.185491019	2.730668451	0.006320602	0.029996968
ENSMUSG00000058063	2250.382738	0.507144843	0.140461563	3.610559595	0.000305537	0.002426561
ENSMUSG00000022330	1272.062892	0.507199666	0.116411142	4.356968381	1.32E-05	0.000153176
ENSMUSG00000099843	163.7173943	0.507243632	0.236648755	2.143445178	0.032077369	0.108027393
ENSMUSG00000090247	144.7560759	0.507407254	0.208171463	2.43744867	0.014791314	0.058935339
ENSMUSG00000019838	5464.024736	0.507430622	0.115512089	4.392878922	1.12E-05	0.000131835
ENSMUSG00000005873	520.2565757	0.50788903	0.209101038	2.428916829	0.015144006	0.059965639
ENSMUSG00000022451	7815.425757	0.507935121	0.116569675	4.357352106	1.32E-05	0.000152987
ENSMUSG00000026771	1638.041367	0.507969586	0.114180745	4.448820016	8.63E-06	0.000104278
ENSMUSG00000027580	9583.70339	0.508244761	0.132748702	3.828623191	0.000128862	0.00114401
ENSMUSG00000020105	7333.454189	0.508686751	0.128745715	3.951096574	7.78E-05	0.000738877
ENSMUSG00000019975	615.6653812	0.50887858	0.130935556	3.886481232	0.000101708	0.000929965
ENSMUSG00000032308	1365.57828	0.508879135	0.132974095	3.826904294	0.000129765	0.001150651
ENSMUSG00000020952	2996.46701	0.508922618	0.113370061	4.489038922	7.15E-06	8.84E-05
ENSMUSG00000037816	520.0670531	0.508995588	0.135682541	3.751371288	0.00017587	0.001495264
ENSMUSG00000021360	810.8951489	0.509215753	0.200632941	2.538046602	0.011147314	0.047216761
ENSMUSG00000021794	22154.15421	0.509482027	0.135314131	3.765179752	0.000166429	0.001424229
ENSMUSG00000004071	4547.354302	0.509743547	0.13629243	3.74007234	0.000183967	0.001554625
ENSMUSG00000044072	219.372961	0.50982824	0.220826189	2.308730871	0.02095852	0.07734502
ENSMUSG00000069306	9228.888877	0.510094218	0.128879743	3.957908402	7.56E-05	0.000720887

ENSMUSG00000040760	1899.521397	0.51031884	0.133785455	3.814456798	0.000136483	0.001199725
ENSMUSG00000021759	505.3479299	0.510426595	0.201529473	2.532764007	0.011316711	0.047789051
ENSMUSG00000021054	3329.158558	0.51060692	0.158898376	3.213418116	0.001311652	0.008293493
ENSMUSG00000023367	3845.638243	0.511010292	0.09856959	5.184259099	2.17E-07	3.79E-06
ENSMUSG00000037458	9070.471145	0.511049451	0.098054203	5.211907634	1.87E-07	3.31E-06
ENSMUSG00000066538	165.8420245	0.51146084	0.240243167	2.12892981	0.033260068	0.111109309
ENSMUSG00000105893	150.5746762	0.512463524	0.213642422	2.398697409	0.016453505	0.063869454
ENSMUSG00000091705	4447.262228	0.512505447	0.150910951	3.396078573	0.000683587	0.00482274
ENSMUSG00000022687	1721.703422	0.513445547	0.166887457	3.076597577	0.002093778	0.012220187
ENSMUSG00000014075	262.0269903	0.51392321	0.177229114	2.899767419	0.003734396	0.019531139
ENSMUSG00000073155	1553.409168	0.513969573	0.150317873	3.419217972	0.000628014	0.004488891
ENSMUSG00000033060	18396.20044	0.514017651	0.115517989	4.449676241	8.60E-06	0.00010395
ENSMUSG00000073982	1756.21334	0.514284948	0.114023796	4.51033001	6.47E-06	8.11E-05
ENSMUSG00000046269	220.7848816	0.51432339	0.18850511	2.728432084	0.006363619	0.030167901
ENSMUSG00000017453	1787.130426	0.515268542	0.155564429	3.312251675	0.000925482	0.006242948
ENSMUSG00000004263	460.7716006	0.515402691	0.157747961	3.26725422	0.001085961	0.007131337
ENSMUSG00000022010	10661.01733	0.515526789	0.103210731	4.994895233	5.89E-07	9.26E-06
ENSMUSG00000063694	8311.775495	0.516203288	0.109917124	4.696295449	2.65E-06	3.64E-05
ENSMUSG00000028184	6868.432097	0.516464768	0.108809629	4.746498762	2.07E-06	2.90E-05
ENSMUSG00000022560	1524.852504	0.516581855	0.132127702	3.909716482	9.24E-05	0.000855423
ENSMUSG00000040570	916.7713435	0.516661733	0.156458902	3.302220114	0.000959228	0.006418163
ENSMUSG00000026159	4658.717464	0.51718751	0.116149571	4.452771605	8.48E-06	0.000102686
ENSMUSG00000024339	1501.50957	0.517225296	0.174155342	2.969907729	0.002978892	0.016338483
ENSMUSG00000051000	378.0577302	0.517408958	0.169506563	3.052442039	0.002269876	0.013066726
ENSMUSG00000026154	424.5945889	0.517739591	0.14149742	3.659003759	0.000253198	0.002051802
ENSMUSG00000069308	1043.464998	0.518201683	0.177416921	2.920813186	0.003491191	0.018524161
ENSMUSG00000109841	194.9257588	0.518207026	0.222024084	2.334012673	0.019595058	0.073222084
ENSMUSG00000022769	2127.06456	0.518327425	0.186350373	2.781467061	0.005411382	0.026470549
ENSMUSG00000015944	387.5917414	0.518391299	0.2262041	2.291697187	0.021923123	0.080148781

ENSMUSG00000052155	2215.838508	0.519063987	0.113579003	4.570069923	4.88E-06	6.31E-05
ENSMUSG00000001630	1471.134125	0.519247253	0.174002488	2.98413695	0.002843795	0.015744653
ENSMUSG00000030795	21278.2191	0.519785478	0.109818583	4.733128614	2.21E-06	3.08E-05
ENSMUSG00000028563	551.5335486	0.520121713	0.169378598	3.070764072	0.002135118	0.012415975
ENSMUSG00000044734	5639.543669	0.520371041	0.098844347	5.264550348	1.41E-07	2.56E-06
ENSMUSG00000073147	2833.4712	0.520584241	0.160827433	3.236911946	0.001208307	0.007756607
ENSMUSG00000073411	24405.07379	0.520868063	0.162521967	3.204908673	0.001351053	0.00849925
ENSMUSG00000074733	2096.204502	0.521658365	0.133939066	3.89474393	9.83E-05	0.00090348
ENSMUSG00000112237	279.1890622	0.52199082	0.182236331	2.864361984	0.004178502	0.021446438
ENSMUSG00000022246	2655.71602	0.522403695	0.14038374	3.721255	0.000198235	0.001663847
ENSMUSG00000047767	1651.696958	0.522524859	0.133244643	3.921544956	8.80E-05	0.000820623
ENSMUSG00000024953	2786.012238	0.522548899	0.121923657	4.285869641	1.82E-05	0.000204502
ENSMUSG00000060012	9500.420594	0.522735344	0.11957357	4.371662927	1.23E-05	0.000144044
ENSMUSG00000024208	1762.223712	0.523098043	0.118620977	4.409827455	1.03E-05	0.000122588
ENSMUSG00000041471	606.3078215	0.523285134	0.142947462	3.660681524	0.000251545	0.002040637
ENSMUSG00000083863	148.1823191	0.523880615	0.250006474	2.095468195	0.036129393	0.118471047
ENSMUSG00000031604	1916.813425	0.524284647	0.159553707	3.285944637	0.00101641	0.006734093
ENSMUSG00000035235	181.9726523	0.524413473	0.200177083	2.619747797	0.008799482	0.039231756
ENSMUSG00000004270	4587.401505	0.524584053	0.102655099	5.110160704	3.22E-07	5.41E-06
ENSMUSG00000066800	4546.025177	0.524622592	0.105904998	4.953709457	7.28E-07	1.13E-05
ENSMUSG00000024944	1196.997263	0.524952288	0.112946866	4.647780897	3.36E-06	4.48E-05
ENSMUSG00000042228	3913.279141	0.526783777	0.128624006	4.095532339	4.21E-05	0.000429893
ENSMUSG00000022912	317.2455356	0.52705972	0.196619811	2.68060333	0.007348957	0.033945546
ENSMUSG00000026343	1553.795109	0.528071357	0.1162368	4.543065187	5.54E-06	7.04E-05
ENSMUSG00000028967	5376.68507	0.528085653	0.151499919	3.485715748	0.000490822	0.003652261
ENSMUSG00000051650	291.0035904	0.528248449	0.176083132	2.999994619	0.002699844	0.015097597
ENSMUSG00000040714	122.6504979	0.528766939	0.264041326	2.002591593	0.045221143	0.14052698
ENSMUSG00000041653	135.3866874	0.528804161	0.25749865	2.053619162	0.040012566	0.128096502
ENSMUSG00000025432	1592.288022	0.529957628	0.177918618	2.97865189	0.002895195	0.015973712

ENSMUSG00000061232	31588.9234	0.530178213	0.162909851	3.254426979	0.001136214	0.007383071
ENSMUSG00000102302	279.4998457	0.530326019	0.162696278	3.259607572	0.001115665	0.0072835
ENSMUSG00000103146	163.061848	0.530467931	0.261102132	2.031649177	0.042189184	0.133172116
ENSMUSG00000062526	994.418082	0.530513146	0.133583825	3.9713876	7.15E-05	0.000686567
ENSMUSG00000038119	1575.663949	0.531264612	0.137253622	3.870678267	0.000108533	0.0009847
ENSMUSG00000040690	364.6092316	0.531536632	0.205281002	2.589312348	0.009616782	0.042093004
ENSMUSG00000027132	597.0580376	0.531687671	0.164318178	3.235720352	0.001213362	0.007777863
ENSMUSG00000078919	540.8403099	0.532087808	0.151803271	3.50511424	0.000456411	0.00342939
ENSMUSG00000015837	9143.702553	0.532135854	0.168473985	3.158563945	0.001585485	0.009729748
ENSMUSG00000098557	6809.862606	0.532598973	0.154524134	3.446704152	0.00056747	0.004118171
ENSMUSG00000040322	1355.656842	0.532884578	0.147044671	3.623963894	0.000290122	0.002319001
ENSMUSG00000114169	293.4762382	0.532970794	0.175627749	3.034661647	0.002408057	0.013710001
ENSMUSG00000111375	514.0619963	0.533089696	0.178008144	2.994748908	0.002746708	0.015315069
ENSMUSG00000034591	379.6209685	0.533464872	0.189378742	2.816920559	0.004848652	0.024228049
ENSMUSG00000026131	7286.253583	0.533843587	0.156891092	3.402637967	0.000667386	0.004730892
ENSMUSG00000077734	138.2392806	0.534366818	0.230938587	2.313891428	0.020673678	0.076542844
ENSMUSG00000056260	724.1675087	0.534483841	0.150644376	3.547984045	0.000388192	0.002983137
ENSMUSG00000038910	5464.772541	0.535070191	0.106014805	5.047127049	4.49E-07	7.31E-06
ENSMUSG00000025937	1376.556071	0.535197578	0.114289287	4.682832406	2.83E-06	3.85E-05
ENSMUSG00000047866	6218.378396	0.535866132	0.106604823	5.026659344	4.99E-07	8.02E-06
ENSMUSG00000040774	2244.014018	0.535964987	0.111574326	4.80365873	1.56E-06	2.25E-05
ENSMUSG00000024480	1480.810039	0.536658092	0.106396985	5.043922001	4.56E-07	7.41E-06
ENSMUSG00000044894	11253.33857	0.53705347	0.096120328	5.587303743	2.31E-08	4.83E-07
ENSMUSG00000034297	12180.44152	0.538116727	0.106677659	5.044324491	4.55E-07	7.40E-06
ENSMUSG00000064061	1166.145312	0.538837893	0.161080675	3.345143004	0.000822402	0.005639722
ENSMUSG00000032757	900.5523006	0.540247719	0.123848	4.36218364	1.29E-05	0.000149959
ENSMUSG00000036073	1963.103639	0.540457745	0.136056573	3.972301605	7.12E-05	0.000684232
ENSMUSG00000032870	2912.784199	0.540898695	0.14858835	3.640249692	0.000272374	0.002191908
ENSMUSG00000057666	44127.97209	0.541901193	0.134823926	4.019325112	5.84E-05	0.000573759

ENSMUSG00000001943	345.8742325	0.542164432	0.176792575	3.066669693	0.002164579	0.012564362
ENSMUSG00000027900	2272.961862	0.543568178	0.112829159	4.817621455	1.45E-06	2.11E-05
ENSMUSG00000028786	3661.494704	0.544157582	0.139279374	3.906950233	9.35E-05	0.000864195
ENSMUSG00000062937	1758.211595	0.545100093	0.141828243	3.843381828	0.00012135	0.001082495
ENSMUSG00000024193	987.528399	0.546584909	0.13865053	3.942176849	8.07E-05	0.00076301
ENSMUSG00000024924	402.0118178	0.546614593	0.242439516	2.254643146	0.024155737	0.086635106
ENSMUSG00000020647	5986.552208	0.546978015	0.135051543	4.050142657	5.12E-05	0.000511887
ENSMUSG00000032386	1373.751719	0.54716622	0.110660285	4.944558189	7.63E-07	1.18E-05
ENSMUSG00000027639	4502.743341	0.547358342	0.094931878	5.765801297	8.13E-09	1.84E-07
ENSMUSG00000006930	1273.021128	0.547365162	0.145235088	3.768821774	0.00016402	0.001405768
ENSMUSG00000103094	239.4400052	0.54768268	0.180293307	3.037731629	0.002383661	0.013602362
ENSMUSG00000028976	712.6065743	0.548276529	0.243301738	2.253483817	0.02422866	0.086828856
ENSMUSG00000022119	11270.13934	0.548484329	0.118357316	4.634139631	3.58E-06	4.76E-05
ENSMUSG00000059493	2453.583135	0.548685359	0.124660993	4.401419788	1.08E-05	0.000127032
ENSMUSG00000113536	83.69005669	0.549382992	0.278936009	1.969566405	0.048888085	0.148799398
ENSMUSG00000033543	2091.976564	0.549945044	0.137753999	3.992225615	6.55E-05	0.000636883
ENSMUSG00000083567	164.9428796	0.55029313	0.228505848	2.408223405	0.016030368	0.062687957
ENSMUSG00000006717	1699.60739	0.550619442	0.123183125	4.469925902	7.82E-06	9.58E-05
ENSMUSG00000071451	691.5797611	0.551432247	0.142929031	3.858084267	0.000114279	0.001028467
ENSMUSG00000106734	861.967243	0.551917566	0.230046797	2.399153442	0.016433027	0.063843122
ENSMUSG00000032370	492.9088745	0.552625659	0.177186599	3.118890833	0.001815332	0.010871031
ENSMUSG00000035692	179.6648882	0.552729512	0.270409637	2.044045171	0.040949085	0.130364817
ENSMUSG00000039197	4916.196329	0.553299161	0.110420914	5.010818498	5.42E-07	8.60E-06
ENSMUSG00000103780	209.4400958	0.553409516	0.215548483	2.567447979	0.010245016	0.044217941
ENSMUSG00000098132	1157.398985	0.554455311	0.139110378	3.985722112	6.73E-05	0.000652874
ENSMUSG00000107000	253.2272619	0.554485027	0.175720835	3.155488241	0.001602297	0.009815647
ENSMUSG00000031712	438.5549438	0.554827673	0.14325931	3.87289085	0.000107552	0.000977391
ENSMUSG00000109245	204.4763167	0.555480919	0.236490216	2.348853699	0.018831304	0.071070726
ENSMUSG00000101013	504.2851725	0.556019832	0.145511401	3.821142738	0.000132835	0.001171351



ENSMUSG00000029638	934.7569173	0.556031544	0.152121467	3.655181322	0.000257	0.002077333
ENSMUSG00000064341	221673.7909	0.556364671	0.148497802	3.746618906	0.000179234	0.001520966
ENSMUSG00000035356	12975.00866	0.556812181	0.143858663	3.870550219	0.00010859	0.000984817
ENSMUSG00000022377	1211.991294	0.557049233	0.149857261	3.717198823	0.000201444	0.001689301
ENSMUSG00000040483	260.2158677	0.557250681	0.194874589	2.859534867	0.004242628	0.02168573
ENSMUSG00000031605	1721.461955	0.557360651	0.123545676	4.511373191	6.44E-06	8.08E-05
ENSMUSG00000020654	155.3091801	0.557627427	0.257126049	2.168692867	0.030106009	0.102581224
ENSMUSG00000021464	2239.085064	0.557702958	0.134544384	4.145122528	3.40E-05	0.000353932
ENSMUSG00000061130	6752.965615	0.557862289	0.099058769	5.631629545	1.79E-08	3.81E-07
ENSMUSG00000025171	365.8798438	0.557929835	0.162225199	3.439230401	0.000583371	0.004225315
ENSMUSG00000026977	6108.08804	0.558164658	0.099212682	5.625940624	1.84E-08	3.93E-07
ENSMUSG00000105378	99.93309852	0.55826582	0.245394002	2.27497744	0.022907283	0.083015887
ENSMUSG00000028195	8224.973993	0.558345103	0.201796595	2.766870784	0.005659718	0.02743856
ENSMUSG00000021738	3909.193199	0.558509117	0.101827173	5.484873046	4.14E-08	8.29E-07
ENSMUSG00000029094	1886.33886	0.558726808	0.147486285	3.788330606	0.000151663	0.001312813
ENSMUSG00000029622	13404.52777	0.559274938	0.136347202	4.101843885	4.10E-05	0.000418714
ENSMUSG00000034480	3302.305931	0.5592882	0.126900693	4.407290361	1.05E-05	0.000123901
ENSMUSG00000030556	1297.719624	0.559330529	0.205543846	2.72122246	0.006504098	0.030706722
ENSMUSG00000110170	375.2539517	0.559717561	0.164443075	3.403716207	0.000664758	0.004719759
ENSMUSG00000024862	1598.830309	0.560059664	0.131256237	4.266918475	1.98E-05	0.000219785
ENSMUSG00000068758	276.5288813	0.560399914	0.230035458	2.436145798	0.0148447	0.059116366
ENSMUSG00000034160	22860.8721	0.56053075	0.126956057	4.415155633	1.01E-05	0.000120054
ENSMUSG00000097729	258.7103477	0.560566529	0.200650547	2.793745327	0.005210149	0.025689042
ENSMUSG00000079038	284.9452283	0.56088251	0.204284342	2.74559716	0.006040088	0.028874598
ENSMUSG00000063383	192.8266141	0.561491768	0.199361709	2.816447407	0.004855799	0.024254716
ENSMUSG00000033392	4618.04824	0.561654479	0.120989091	4.642191097	3.45E-06	4.58E-05
ENSMUSG00000020733	9594.56922	0.561690395	0.11554916	4.861051291	1.17E-06	1.73E-05
ENSMUSG00000031209	4699.267191	0.562634099	0.110923361	5.072277758	3.93E-07	6.46E-06
ENSMUSG00000037820	21622.5888	0.563097124	0.101997368	5.520702515	3.38E-08	6.83E-07

ENSMUSG00000005534	9918.668039	0.563240417	0.123782351	4.550248171	5.36E-06	6.85E-05
ENSMUSG00000088108	203.4335234	0.563645981	0.192330467	2.930612031	0.00338295	0.018097612
ENSMUSG00000045464	145.5940853	0.56425671	0.219391419	2.571917859	0.010113688	0.043744253
ENSMUSG00000098274	115.2002068	0.564389073	0.243490387	2.317911106	0.020454153	0.075809882
ENSMUSG00000040928	1284.640792	0.564501987	0.133969685	4.213654664	2.51E-05	0.000270314
ENSMUSG00000020590	2684.070913	0.564619795	0.119248163	4.734830119	2.19E-06	3.06E-05
ENSMUSG00000022906	2461.538849	0.564901312	0.151171794	3.736816884	0.000186365	0.00157369
ENSMUSG00000025759	391.1450911	0.565189626	0.164953592	3.426355368	0.000611739	0.004393688
ENSMUSG00000029338	1409.937673	0.565310447	0.132774292	4.25767999	2.07E-05	0.000227818
ENSMUSG00000027660	3127.226733	0.56534951	0.18539855	3.049373962	0.002293188	0.013173723
ENSMUSG00000037960	462.2629682	0.565487323	0.151483229	3.733002826	0.00018921	0.001595305
ENSMUSG00000064368	13780.34875	0.565724367	0.168368428	3.360038305	0.000779317	0.005370896
ENSMUSG00000079659	790.1392604	0.565839928	0.141670996	3.994042137	6.50E-05	0.000632849
ENSMUSG00000059743	344.9353479	0.566130222	0.197346889	2.868706092	0.004121546	0.021202905
ENSMUSG00000031367	106.4159537	0.566778489	0.248744473	2.278557117	0.022693406	0.082370709
ENSMUSG00000027312	4424.561641	0.567536217	0.124673487	4.552180493	5.31E-06	6.80E-05
ENSMUSG00000040652	1286.723197	0.567563972	0.140028361	4.053207287	5.05E-05	0.000506278
ENSMUSG00000030168	8431.045769	0.567996782	0.135289015	4.198395433	2.69E-05	0.00028697
ENSMUSG00000031485	5637.029859	0.56830298	0.105014642	5.411654666	6.24E-08	1.22E-06
ENSMUSG00000035105	180.0457262	0.56852639	0.233701445	2.432703781	0.014986556	0.059521849
ENSMUSG00000021025	13980.41798	0.568686873	0.160147823	3.55101221	0.000383753	0.002952076
ENSMUSG00000084799	430.389831	0.568880763	0.17595134	3.233170951	0.001224243	0.007836349
ENSMUSG00000073643	933.3695385	0.569039522	0.163135153	3.488147789	0.000486379	0.003621617
ENSMUSG00000039405	1122.600991	0.569515654	0.201640965	2.824404519	0.004736856	0.023754582
ENSMUSG00000049580	322.1044888	0.569692586	0.1959197	2.907786137	0.003639972	0.019131513
ENSMUSG00000038375	1608.018048	0.569721409	0.145137364	3.925394503	8.66E-05	0.000810219
ENSMUSG00000106287	140.8163781	0.56997294	0.23269171	2.449476776	0.014306394	0.057475569
ENSMUSG00000021069	573.3451718	0.569986171	0.22893669	2.489710897	0.012784704	0.052458453
ENSMUSG00000052392	487.8387074	0.57078152	0.148821123	3.83535287	0.000125384	0.001116244

ENSMUSG00000089726	1192.826849	0.570949102	0.151770513	3.761923775	0.000168611	0.001441796
ENSMUSG00000064853	183.6471008	0.571000329	0.208032087	2.744770476	0.006055323	0.028928827
ENSMUSG00000030615	1094.064841	0.571282267	0.1478615	3.863630945	0.000111714	0.001008637
ENSMUSG00000061778	1029.910341	0.571350451	0.133189571	4.289753686	1.79E-05	0.000201669
ENSMUSG00000027761	3318.935785	0.57135985	0.195903138	2.916542614	0.003539344	0.018739531
ENSMUSG00000070576	89.70843449	0.571825414	0.284976674	2.006569188	0.044795555	0.139464703
ENSMUSG00000024750	13243.08691	0.572123994	0.159993265	3.575925496	0.000348991	0.002718424
ENSMUSG00000025212	638.676485	0.573241952	0.199532866	2.872919952	0.004066972	0.02096568
ENSMUSG00000052241	84.99053821	0.573971286	0.287026933	1.999712293	0.04553134	0.141144622
ENSMUSG00000031357	1976.505946	0.574461591	0.111468702	5.153568496	2.56E-07	4.39E-06
ENSMUSG00000028413	5377.567515	0.574662395	0.098202008	5.851839555	4.86E-09	1.14E-07
ENSMUSG00000015882	3955.305867	0.575029819	0.109116605	5.269865391	1.37E-07	2.49E-06
ENSMUSG00000017830	374.8111244	0.575553633	0.205403767	2.802059773	0.005077746	0.025158592
ENSMUSG00000027346	1641.802425	0.576360555	0.15936497	3.616607566	0.000298489	0.002380762
ENSMUSG000000102419	114.6540914	0.576839353	0.249629309	2.310783763	0.020844802	0.07700181
ENSMUSG000000109363	138.4690486	0.577158258	0.228803286	2.522508606	0.01165211	0.048798817
ENSMUSG00000030747	1772.365687	0.57726063	0.157378227	3.667982808	0.000244472	0.001994134
ENSMUSG00000059714	1925.763507	0.577741368	0.166276639	3.474579298	0.000511655	0.003783296
ENSMUSG00000001467	4011.746004	0.577825573	0.140201765	4.121385869	3.77E-05	0.000388533
ENSMUSG00000064262	92.3871336	0.577903964	0.273523673	2.112811506	0.034616904	0.114519609
ENSMUSG00000097497	114.5327552	0.578025004	0.273971104	2.109802804	0.034875345	0.115154733
ENSMUSG000000100455	348.588754	0.578493195	0.16061489	3.601740744	0.000316094	0.002495974
ENSMUSG00000064210	12327.64189	0.578704602	0.114226911	5.066271992	4.06E-07	6.64E-06
ENSMUSG00000044906	428.4466905	0.57904649	0.184838437	3.132716872	0.001731964	0.010456852
ENSMUSG00000028266	2171.649166	0.579740497	0.108594755	5.338568127	9.37E-08	1.77E-06
ENSMUSG00000025529	643.0721292	0.58021429	0.135292064	4.2886055	1.80E-05	0.000202407
ENSMUSG00000059540	227.3109698	0.580966337	0.217814319	2.667255027	0.007647362	0.035055255
ENSMUSG00000052748	2007.562205	0.580999212	0.111753081	5.198954749	2.00E-07	3.53E-06
ENSMUSG00000039531	1862.74684	0.581103367	0.133004231	4.369059264	1.25E-05	0.000145543

ENSMUSG00000067847	1359.386295	0.581586432	0.125227895	4.644224278	3.41E-06	4.54E-05
ENSMUSG00000037818	368.4487961	0.58178543	0.171562536	3.391098341	0.000696131	0.004896495
ENSMUSG00000107884	169.3600412	0.582375435	0.204542944	2.847203736	0.004410513	0.022364448
ENSMUSG00000019979	5496.594054	0.582850605	0.132042226	4.414122816	1.01E-05	0.000120435
ENSMUSG00000092341	264377.3019	0.583278101	0.122145328	4.77527967	1.79E-06	2.56E-05
ENSMUSG00000029119	2026.800037	0.584068694	0.138163806	4.227363963	2.36E-05	0.000256218
ENSMUSG00000028035	1805.574732	0.584148218	0.128499551	4.54591643	5.47E-06	6.95E-05
ENSMUSG00000039616	352.6023863	0.584601174	0.200653899	2.913480263	0.003574244	0.018866088
ENSMUSG00000028744	541.5913969	0.585283734	0.151965085	3.851435564	0.000117427	0.001052129
ENSMUSG00000036885	12366.50513	0.585604163	0.126170349	4.641377041	3.46E-06	4.60E-05
ENSMUSG00000094936	466.6935409	0.585657818	0.156636967	3.738950192	0.00018479	0.001560988
ENSMUSG00000030691	6100.242634	0.586083263	0.136071731	4.307164014	1.65E-05	0.000187766
ENSMUSG00000027978	1117.079091	0.586149652	0.145264247	4.035057928	5.46E-05	0.0005401
ENSMUSG00000039831	1057.631795	0.586252474	0.1369444	4.2809525	1.86E-05	0.000208025
ENSMUSG00000040414	3785.095765	0.586594613	0.137992616	4.25091306	2.13E-05	0.000233887
ENSMUSG00000107992	1719.871752	0.587653928	0.168984961	3.477551647	0.000506016	0.003749054
ENSMUSG00000085421	147.8956127	0.588103665	0.208735491	2.817458892	0.004840531	0.024203741
ENSMUSG00000028397	2697.261802	0.588866603	0.128342909	4.588228568	4.47E-06	5.85E-05
ENSMUSG00000054385	193.345491	0.589784477	0.263825705	2.235508011	0.025384016	0.090098512
ENSMUSG00000032515	1066.460556	0.590395407	0.210603922	2.803344785	0.005057557	0.025069699
ENSMUSG00000001225	2537.670921	0.590541008	0.179045618	3.298271216	0.000972821	0.006493531
ENSMUSG00000033055	3130.638768	0.591173518	0.106150205	5.569216935	2.56E-08	5.29E-07
ENSMUSG00000106596	102.2502336	0.591228016	0.283128279	2.088198388	0.036779943	0.119969212
ENSMUSG00000003062	1634.559556	0.592503458	0.131377155	4.509942842	6.48E-06	8.12E-05
ENSMUSG00000015652	411.0395617	0.593001663	0.204523575	2.899429388	0.003738425	0.019543044
ENSMUSG00000043542	313.5638632	0.593821636	0.172777659	3.436912154	0.000588386	0.004256854
ENSMUSG00000089371	851.5291325	0.593906854	0.197956245	3.000192563	0.00269809	0.015095262
ENSMUSG00000112880	75.57671029	0.5941684	0.300422944	1.977773044	0.047954316	0.146557379
ENSMUSG00000026611	89.20899463	0.594916408	0.299694879	1.985073654	0.047136278	0.144811424

ENSMUSG00000061143	2557.196672	0.595834878	0.133351757	4.468144182	7.89E-06	9.65E-05
ENSMUSG00000028080	24446.62166	0.59720726	0.117165185	5.097139205	3.45E-07	5.75E-06
ENSMUSG00000051811	289.6781595	0.597240058	0.184560846	3.23600628	0.001212147	0.007774545
ENSMUSG00000047554	1776.256441	0.597543506	0.109143884	5.474823541	4.38E-08	8.72E-07
ENSMUSG00000032596	2975.211192	0.59819806	0.127621949	4.687266314	2.77E-06	3.79E-05
ENSMUSG00000073077	682.5346487	0.598593169	0.172385091	3.472418451	0.000515792	0.003808831
ENSMUSG00000091831	95.7697386	0.598607813	0.279105735	2.144734904	0.031974049	0.107760806
ENSMUSG00000090150	2098.031684	0.598723291	0.164631595	3.636745975	0.000276104	0.002216485
ENSMUSG00000065147	276.9168893	0.599622917	0.228223528	2.627349263	0.008605296	0.038550965
ENSMUSG00000106364	85.38571406	0.600006974	0.302772431	1.981709406	0.047511774	0.14570408
ENSMUSG00000066150	3921.017893	0.600092105	0.12689835	4.728919672	2.26E-06	3.14E-05
ENSMUSG00000039934	71.19172994	0.600834194	0.303543063	1.979403474	0.047770598	0.14623639
ENSMUSG00000030695	15083.47026	0.601139687	0.138693392	4.334306606	1.46E-05	0.000168433
ENSMUSG00000025981	1417.046503	0.601228839	0.142947129	4.20595253	2.60E-05	0.000278345
ENSMUSG00000097885	547.7858959	0.601502279	0.227659842	2.642109705	0.008239136	0.037226249
ENSMUSG00000027981	1694.571049	0.602829329	0.131603261	4.580656487	4.64E-06	6.03E-05
ENSMUSG00000033618	2446.197925	0.602929604	0.174490233	3.455377371	0.000549523	0.004008804
ENSMUSG00000022587	4317.224659	0.603037592	0.178199772	3.384053661	0.00071424	0.004999459
ENSMUSG00000015533	5852.749401	0.603497308	0.143273318	4.212210026	2.53E-05	0.000271918
ENSMUSG00000036611	1026.794506	0.60415595	0.177128826	3.410827943	0.000647659	0.004611575
ENSMUSG00000030341	3540.9925	0.604481701	0.131454906	4.598395919	4.26E-06	5.60E-05
ENSMUSG00000056121	1234.07736	0.604762691	0.121976117	4.958041857	7.12E-07	1.11E-05
ENSMUSG00000043252	1009.505339	0.605685225	0.132931391	4.556374676	5.20E-06	6.69E-05
ENSMUSG00000082956	973.5940838	0.606361654	0.164427306	3.687718728	0.000226274	0.00186686
ENSMUSG00000023947	343.0510478	0.606632961	0.208562786	2.908634728	0.003630107	0.019093165
ENSMUSG00000044350	690.5694546	0.607188118	0.195175949	3.110978174	0.001864687	0.011118782
ENSMUSG00000053291	209.2227744	0.607946285	0.187254482	3.246631415	0.001167795	0.007546509
ENSMUSG00000030720	1082.28923	0.608283456	0.140464203	4.330522958	1.49E-05	0.000171088
ENSMUSG00000024847	1071.6542	0.610314556	0.133918756	4.557349344	5.18E-06	6.67E-05

ENSMUSG00000059895	985.2714803	0.611309379	0.13040385	4.687816954	2.76E-06	3.78E-05
ENSMUSG00000028341	1171.447784	0.611753005	0.22002956	2.780321908	0.005430504	0.026540798
ENSMUSG00000030987	3776.106865	0.614525581	0.120929783	5.081672726	3.74E-07	6.18E-06
ENSMUSG00000018736	2675.41397	0.615070152	0.149382643	4.117413763	3.83E-05	0.000394487
ENSMUSG00000033278	2837.004728	0.615219348	0.158125391	3.89070563	1.00E-04	0.000916929
ENSMUSG00000056917	715.4135119	0.615797702	0.146362844	4.20733628	2.58E-05	0.000277179
ENSMUSG00000026623	5196.913237	0.616554431	0.116868768	5.275613337	1.32E-07	2.42E-06
ENSMUSG00000024558	198.7592554	0.616698353	0.246299439	2.503856099	0.012284799	0.05082807
ENSMUSG00000028657	3850.662842	0.617089571	0.128818587	4.790376808	1.66E-06	2.40E-05
ENSMUSG00000048581	148.6006719	0.617566818	0.237398129	2.60139716	0.00928449	0.04091156
ENSMUSG00000103783	70.99637783	0.618224365	0.314458457	1.965996946	0.049298963	0.149600787
ENSMUSG00000024952	1783.716637	0.618341901	0.127578293	4.84676419	1.25E-06	1.85E-05
ENSMUSG00000105827	5602.678004	0.61852434	0.145755802	4.243565819	2.20E-05	0.000240462
ENSMUSG00000056938	1771.205802	0.618532748	0.15978164	3.871112772	0.00010834	0.000983347
ENSMUSG00000038074	143.9146333	0.61892773	0.21445918	2.885993178	0.003901806	0.020237789
ENSMUSG00000090031	249.4566461	0.619351786	0.17396252	3.560259908	0.000370488	0.002868837
ENSMUSG00000104436	118.090671	0.619410499	0.257501985	2.405459124	0.016152159	0.063050813
ENSMUSG00000032066	882.1850295	0.619781514	0.206139812	3.006607549	0.002641806	0.014843767
ENSMUSG00000030934	99034.57211	0.621291224	0.188474151	3.296426699	0.000979232	0.006532409
ENSMUSG00000087557	89.61473144	0.622010719	0.287497142	2.163537053	0.030499897	0.103631347
ENSMUSG00000000440	534.987696	0.622206711	0.169669756	3.667163351	0.000245256	0.001998487
ENSMUSG00000037270	17894.98486	0.622541918	0.130854253	4.757521463	1.96E-06	2.77E-05
ENSMUSG00000097320	310.6353211	0.62261382	0.157095929	3.963271516	7.39E-05	0.000707295
ENSMUSG00000065353	798.7389462	0.62273842	0.187986748	3.312671907	0.000924093	0.006237121
ENSMUSG00000022971	622.3076769	0.622818609	0.15506332	4.016543755	5.91E-05	0.000579688
ENSMUSG00000058492	65.20079803	0.622829807	0.304595322	2.044777982	0.040876751	0.130153117
ENSMUSG00000097385	109.1047694	0.622905062	0.257205433	2.421819228	0.015443031	0.060944085
ENSMUSG00000064138	2431.136873	0.623264724	0.104741993	5.950476082	2.67E-09	6.55E-08
ENSMUSG00000059326	1479.054159	0.623377725	0.127152472	4.902600131	9.46E-07	1.43E-05

ENSMUSG00000070327	31633.50239	0.623400951	0.132980361	4.687917418	2.76E-06	3.78E-05
ENSMUSG00000000915	10755.72945	0.624358133	0.101734349	6.137141849	8.40E-10	2.22E-08
ENSMUSG00000032285	365.590804	0.625241663	0.229953549	2.718991141	0.006548136	0.030879675
ENSMUSG00000056536	3636.218747	0.625691354	0.119699918	5.227166095	1.72E-07	3.08E-06
ENSMUSG000000113326	177.9358481	0.627065755	0.203596846	3.079938457	0.002070434	0.01211565
ENSMUSG00000078435	465.6449919	0.62824361	0.181477338	3.461829541	0.000536517	0.00392548
ENSMUSG00000067017	87.47816804	0.628628257	0.305677808	2.056506038	0.039733765	0.127427099
ENSMUSG00000107741	111.918476	0.628816266	0.243251986	2.585040622	0.009736753	0.042484703
ENSMUSG00000022094	6233.75648	0.629371128	0.1301993	4.833905629	1.34E-06	1.96E-05
ENSMUSG00000036641	75.67630597	0.629472665	0.278366619	2.26130801	0.023740191	0.085488453
ENSMUSG00000024851	2589.677015	0.629612959	0.143946049	4.373950975	1.22E-05	0.000142691
ENSMUSG00000029833	7946.790276	0.630009419	0.160147777	3.933925478	8.36E-05	0.000786035
ENSMUSG00000115570	89.43185324	0.630063384	0.301325083	2.090975561	0.036530255	0.119469308
ENSMUSG00000085972	507.6363766	0.630364351	0.17488915	3.604365114	0.000312917	0.002476352
ENSMUSG00000021779	3426.84433	0.63051814	0.135116424	4.666480356	3.06E-06	4.14E-05
ENSMUSG00000028229	421.8046677	0.630722286	0.155355254	4.059870973	4.91E-05	0.000494123
ENSMUSG00000022865	7283.458791	0.631193907	0.102566655	6.153987459	7.56E-10	2.01E-08
ENSMUSG00000051910	3761.605705	0.631326119	0.10909693	5.786836719	7.17E-09	1.65E-07
ENSMUSG00000070031	682.5017669	0.63175246	0.168882546	3.740780058	0.00018345	0.001551429
ENSMUSG00000020072	1428.134751	0.631893396	0.188407183	3.353871048	0.000796895	0.00547682
ENSMUSG00000030287	5596.825147	0.632092516	0.140345225	4.503840552	6.67E-06	8.32E-05
ENSMUSG00000106822	98.16961473	0.632143254	0.308159586	2.051350279	0.040232847	0.128635517
ENSMUSG00000093594	105.5735382	0.632259196	0.251284871	2.516105306	0.011865972	0.049536602
ENSMUSG00000097585	384.2627022	0.632728819	0.199728578	3.167943341	0.001535214	0.009457963
ENSMUSG00000103313	194.4225033	0.632754933	0.241442473	2.620727515	0.008774236	0.039166181
ENSMUSG00000109008	246.7072442	0.633216184	0.183368979	3.453235053	0.000553906	0.00403418
ENSMUSG00000113003	184.1232879	0.633303517	0.250708491	2.52605532	0.011535132	0.048454505
ENSMUSG00000035112	3392.323599	0.6350589	0.163392848	3.886699485	0.000101616	0.000929511
ENSMUSG00000027602	811.897973	0.635473708	0.168507677	3.771185495	0.000162474	0.001394124

ENSMUSG00000035642	1625.622618	0.635751424	0.14754361	4.30890517	1.64E-05	0.000186579
ENSMUSG00000022893	932.1328962	0.636111416	0.135361582	4.699349757	2.61E-06	3.59E-05
ENSMUSG00000031227	97.22661871	0.63637247	0.291569638	2.182574544	0.029067156	0.099880839
ENSMUSG00000041827	532.9727234	0.636560444	0.17282362	3.683295407	0.000230238	0.001893267
ENSMUSG00000102555	210.7996541	0.63661958	0.281837041	2.258821541	0.023894488	0.085891518
ENSMUSG00000042121	3034.527131	0.637076321	0.109172383	5.835508063	5.36E-09	1.25E-07
ENSMUSG00000085148	193.4859237	0.637600142	0.264967061	2.406337375	0.016113376	0.062943494
ENSMUSG00000095193	139.4632781	0.638785309	0.254338546	2.511555246	0.012020047	0.050020352
ENSMUSG00000042510	3852.206385	0.638880187	0.117807897	5.423067567	5.86E-08	1.15E-06
ENSMUSG00000021699	3021.277529	0.63912555	0.155758009	4.103323819	4.07E-05	0.000416425
ENSMUSG00000019822	2390.527445	0.639404119	0.101774549	6.282554168	3.33E-10	9.35E-09
ENSMUSG00000033400	1174.685006	0.639448715	0.120632206	5.3008126	1.15E-07	2.14E-06
ENSMUSG00000071203	4172.605469	0.639825725	0.156321997	4.092998674	4.26E-05	0.000434421
ENSMUSG00000055137	107.7237611	0.640284499	0.267566371	2.392993175	0.016711552	0.064668457
ENSMUSG00000017715	3526.342576	0.64083717	0.20372673	3.145572353	0.001657622	0.010089974
ENSMUSG00000028601	2179.255119	0.641133097	0.100227554	6.396774852	1.59E-10	4.67E-09
ENSMUSG00000011034	11409.43593	0.641359253	0.147381072	4.351707072	1.35E-05	0.000156573
ENSMUSG00000056758	2242.14347	0.641449693	0.139383361	4.602053552	4.18E-06	5.51E-05
ENSMUSG00000024614	1551.269438	0.641509711	0.125450018	5.113667766	3.16E-07	5.31E-06
ENSMUSG00000050471	1444.33102	0.641850363	0.153839221	4.172215382	3.02E-05	0.000318973
ENSMUSG00000008305	6919.030429	0.642021675	0.127224332	5.046374908	4.50E-07	7.33E-06
ENSMUSG00000024985	4994.433128	0.642339924	0.105724865	6.075580466	1.24E-09	3.17E-08
ENSMUSG00000038528	253.5172928	0.643032797	0.205765395	3.125077449	0.001777583	0.010665017
ENSMUSG00000060477	2948.116284	0.643584762	0.1216033	5.292494239	1.21E-07	2.23E-06
ENSMUSG00000069305	7991.90157	0.644109769	0.131305807	4.905417254	9.32E-07	1.41E-05
ENSMUSG00000091803	493.4849631	0.645281167	0.140293161	4.59951976	4.23E-06	5.57E-05
ENSMUSG00000102714	110.8924533	0.64531084	0.245854189	2.624770574	0.008670737	0.038737266
ENSMUSG00000104378	481.1913827	0.645951328	0.157337787	4.105506644	4.03E-05	0.000412891
ENSMUSG00000022824	50807.36314	0.645967445	0.115867908	5.575033284	2.47E-08	5.15E-07



ENSMUSG00000085303	61.16383308	0.646150892	0.315188031	2.050048953	0.040359654	0.128930045
ENSMUSG00000049690	774.2831862	0.646766607	0.164204396	3.938789838	8.19E-05	0.000772551
ENSMUSG00000072621	405.274732	0.647371259	0.162744079	3.9778483	6.95E-05	0.000670557
ENSMUSG00000039428	3224.617629	0.64983658	0.121935386	5.329351878	9.86E-08	1.85E-06
ENSMUSG00000056144	373.2514671	0.65014971	0.192690558	3.374061071	0.000740679	0.005157006
ENSMUSG00000036452	2371.368086	0.650579615	0.14579915	4.46216329	8.11E-06	9.87E-05
ENSMUSG00000018585	3129.612339	0.650594268	0.142123291	4.577675215	4.70E-06	6.11E-05
ENSMUSG00000017144	4098.471909	0.650683778	0.145072121	4.485243434	7.28E-06	8.98E-05
ENSMUSG00000002332	2838.439509	0.651338841	0.160006924	4.070691599	4.69E-05	0.000474935
ENSMUSG00000026773	1466.498243	0.651974854	0.154030046	4.232777119	2.31E-05	0.000250613
ENSMUSG00000025813	4914.394356	0.652109374	0.102721854	6.348302226	2.18E-10	6.27E-09
ENSMUSG00000059669	672.5178547	0.652185713	0.144146724	4.524457404	6.06E-06	7.63E-05
ENSMUSG00000031441	3159.615316	0.652742485	0.1848666	3.530883809	0.000414174	0.003161015
ENSMUSG00000039801	1649.420428	0.653199731	0.1379658	4.734504724	2.20E-06	3.06E-05
ENSMUSG00000024962	1606.708944	0.653644325	0.105351899	6.204390513	5.49E-10	1.48E-08
ENSMUSG00000029314	1091.068332	0.654558317	0.172145315	3.802359173	0.000143325	0.001250992
ENSMUSG00000044254	2868.228934	0.655164055	0.172329598	3.801808074	0.000143644	0.001252816
ENSMUSG00000035236	1499.476421	0.655189352	0.122626072	5.342985739	9.14E-08	1.73E-06
ENSMUSG00000106149	223.6838083	0.655354672	0.195213098	3.357124491	0.000787576	0.005420908
ENSMUSG00000068130	507.285783	0.655361893	0.153015794	4.282968929	1.84E-05	0.000206597
ENSMUSG00000023341	187.8699662	0.655558001	0.228888577	2.864092256	0.004182062	0.021454834
ENSMUSG00000041769	2235.504547	0.656578648	0.111542835	5.886336376	3.95E-09	9.47E-08
ENSMUSG00000042680	2196.219457	0.656635858	0.114473359	5.736145648	9.69E-09	2.16E-07
ENSMUSG00000003033	1950.754263	0.656968213	0.114989433	5.713292032	1.11E-08	2.44E-07
ENSMUSG00000097354	1155.922791	0.658965488	0.118582597	5.557016843	2.74E-08	5.63E-07
ENSMUSG00000040148	148.131271	0.65900204	0.285847273	2.305434064	0.021142276	0.07790712
ENSMUSG00000022329	2135.650544	0.659123986	0.137836835	4.781914684	1.74E-06	2.49E-05
ENSMUSG00000026701	16237.17632	0.659420849	0.14492726	4.550012535	5.36E-06	6.86E-05
ENSMUSG00000104164	108.8679448	0.659678938	0.262990631	2.508374293	0.012128812	0.050362346

ENSMUSG00000064345	68789.04559	0.660024404	0.175856775	3.753192922	0.000174596	0.001486135
ENSMUSG00000021930	948.8669903	0.660242939	0.1260124	5.239507682	1.61E-07	2.89E-06
ENSMUSG00000113776	213.1972543	0.660504175	0.201494809	3.278020792	0.001045377	0.006907395
ENSMUSG00000068566	2452.542831	0.661287541	0.114486078	5.776139363	7.64E-09	1.75E-07
ENSMUSG00000030272	926.7758066	0.661856081	0.130127551	5.086210236	3.65E-07	6.05E-06
ENSMUSG00000075486	1370.871457	0.662085532	0.11384199	5.815828871	6.03E-09	1.40E-07
ENSMUSG00000059142	865.9972277	0.662962892	0.130667499	5.073663262	3.90E-07	6.42E-06
ENSMUSG00000025199	3490.816087	0.662981354	0.114915872	5.769275764	7.96E-09	1.81E-07
ENSMUSG00000020142	1202.288759	0.664134371	0.139042925	4.776470078	1.78E-06	2.55E-05
ENSMUSG00000009246	2606.378687	0.664302875	0.213277529	3.11473449	0.001841106	0.010997894
ENSMUSG00000029650	108.0855776	0.664519355	0.331847411	2.002484674	0.04523263	0.140531189
ENSMUSG00000026579	471.4222284	0.664803522	0.212128734	3.133962622	0.001724628	0.010425843
ENSMUSG00000015966	337.545031	0.66485028	0.226763096	2.931915694	0.003368782	0.018037744
ENSMUSG00000107116	150.8029487	0.665697667	0.232784505	2.8597164	0.0042402	0.021678291
ENSMUSG00000042388	57.19569658	0.665786729	0.323110034	2.060557264	0.039345297	0.126505115
ENSMUSG00000111212	61.30163636	0.665906653	0.327438021	2.033687628	0.0419831	0.132747075
ENSMUSG00000028124	3126.049197	0.667292225	0.107415651	6.212243911	5.22E-10	1.42E-08
ENSMUSG00000091985	165.8235297	0.667585817	0.24824797	2.68918943	0.007162576	0.033222257
ENSMUSG00000107756	189.9303706	0.668455051	0.313313326	2.133503417	0.032883452	0.110259187
ENSMUSG00000110803	1402.281151	0.669290715	0.143815176	4.653825387	3.26E-06	4.37E-05
ENSMUSG00000092626	109.633873	0.66979718	0.264967832	2.527843377	0.011476554	0.048289989
ENSMUSG00000031732	2159.621893	0.670353656	0.134321921	4.99064972	6.02E-07	9.43E-06
ENSMUSG00000024887	1866.173254	0.67040357	0.226473886	2.960180446	0.003074589	0.016776709
ENSMUSG00000073102	157.0620216	0.670983791	0.271061571	2.475392544	0.013308981	0.05418101
ENSMUSG00000060336	515.6470325	0.671276478	0.142996262	4.694363827	2.67E-06	3.67E-05
ENSMUSG00000097032	494.1106525	0.671370891	0.172942989	3.882035888	0.000103586	0.000944811
ENSMUSG00000021133	2997.469983	0.671631272	0.111738135	6.010761419	1.85E-09	4.64E-08
ENSMUSG00000030513	460.3215692	0.672660462	0.253809648	2.650255681	0.008043088	0.036497471
ENSMUSG00000027806	7208.262312	0.672666105	0.102324155	6.573874046	4.90E-11	1.54E-09

ENSMUSG00000000409	241.6487164	0.672778059	0.207403194	3.243817252	0.001179394	0.007608233
ENSMUSG00000022550	5899.90817	0.673283238	0.120959869	5.566170344	2.60E-08	5.36E-07
ENSMUSG00000093327	93.17090898	0.673831459	0.341072248	1.975626757	0.048197066	0.147198407
ENSMUSG00000097047	204.7161489	0.674611446	0.199410679	3.383025673	0.000716919	0.005016636
ENSMUSG00000024232	819.7682548	0.67473808	0.252002514	2.677505358	0.007417267	0.034225629
ENSMUSG00000037649	2545.487556	0.675197067	0.18390985	3.671348047	0.000241275	0.001971661
ENSMUSG00000106427	73.5587188	0.676149566	0.298457048	2.265483662	0.023483015	0.084712832
ENSMUSG00000103507	67.65098708	0.676545288	0.31218853	2.167104882	0.030226858	0.102835874
ENSMUSG00000035954	2463.357974	0.67658382	0.134200449	5.041591346	4.62E-07	7.50E-06
ENSMUSG00000056665	388.2321242	0.676694526	0.148030291	4.571324698	4.85E-06	6.28E-05
ENSMUSG00000090674	229.9448085	0.67710153	0.240161501	2.819359166	0.004811964	0.024077095
ENSMUSG00000038473	1107.451254	0.677176876	0.128304528	5.277887571	1.31E-07	2.39E-06
ENSMUSG00000000690	72.60241862	0.67718534	0.340964245	1.986089014	0.047023441	0.144604213
ENSMUSG00000027531	3117.088676	0.677447159	0.108353715	6.252182141	4.05E-10	1.12E-08
ENSMUSG00000110087	52.50212756	0.677471608	0.33717794	2.009240607	0.044511623	0.138716281
ENSMUSG00000038539	846.5525691	0.677592212	0.215876165	3.138800485	0.001696409	0.010278508
ENSMUSG00000036890	583.0050538	0.677757699	0.145599002	4.654961151	3.24E-06	4.35E-05
ENSMUSG00000036027	138.9558385	0.677978658	0.297973364	2.275299537	0.022887967	0.08298237
ENSMUSG00000019791	742.1632158	0.678408275	0.164830382	4.11579628	3.86E-05	0.000396531
ENSMUSG00000104273	124.3507716	0.678484833	0.252164173	2.690647226	0.007131356	0.033118778
ENSMUSG00000113200	88.87639985	0.678510781	0.264853656	2.561832793	0.010412143	0.044749182
ENSMUSG00000042770	478.0212862	0.678573105	0.212812501	3.188596075	0.001429655	0.00891077
ENSMUSG00000080767	298.2517158	0.678748313	0.21840837	3.107702849	0.001885475	0.011227767
ENSMUSG00000045348	198.2693657	0.679242489	0.251585364	2.699848985	0.006937096	0.032385215
ENSMUSG00000004035	658.6799526	0.679381576	0.215266682	3.15599966	0.00159949	0.009803682
ENSMUSG00000108984	96.03342821	0.679647136	0.270347638	2.51397475	0.011937898	0.049771371
ENSMUSG00000105842	76.28215304	0.680194522	0.281289897	2.418126382	0.015600657	0.061397061
ENSMUSG00000102573	317.4443503	0.681477002	0.211507578	3.221998041	0.001273	0.008101638
ENSMUSG00000021815	170.9983	0.681656352	0.232883834	2.92702306	0.003422235	0.018258501

ENSMUSG00000021068	3397.313309	0.682232637	0.163819647	4.164534899	3.12E-05	0.000328191
ENSMUSG00000038774	8127.200536	0.682398243	0.115655255	5.900278757	3.63E-09	8.77E-08
ENSMUSG00000004798	1864.052729	0.683373984	0.1111707142	6.117549627	9.50E-10	2.48E-08
ENSMUSG00000021773	1698.026298	0.683632967	0.121125817	5.64399057	1.66E-08	3.57E-07
ENSMUSG00000020230	287.7116996	0.684988612	0.186412254	3.674590049	0.000238232	0.001949653
ENSMUSG00000046718	364.3006411	0.685278979	0.186034912	3.68360417	0.000229959	0.001891671
ENSMUSG00000101970	1591.772978	0.685334835	0.123015598	5.571121417	2.53E-08	5.24E-07
ENSMUSG00000027377	631.3424757	0.685349832	0.200325799	3.421176084	0.000623509	0.004462415
ENSMUSG00000113196	86.49484671	0.685661263	0.297883761	2.301774564	0.021347889	0.078561216
ENSMUSG00000035299	1948.34052	0.685742912	0.133379838	5.141278636	2.73E-07	4.66E-06
ENSMUSG00000084174	451.5468316	0.686080399	0.276602903	2.480380323	0.013124231	0.053585405
ENSMUSG00000030660	10662.65037	0.686191683	0.123127929	5.572997856	2.50E-08	5.20E-07
ENSMUSG00000070605	353.8527451	0.686418543	0.187197663	3.666811492	0.000245594	0.00200036
ENSMUSG00000041959	5513.361411	0.687500048	0.135135071	5.087502762	3.63E-07	6.02E-06
ENSMUSG00000103002	77.14177398	0.687522225	0.301440112	2.280792097	0.022560752	0.082049468
ENSMUSG00000065734	140.1104253	0.687885136	0.247396242	2.780499536	0.005427534	0.026537915
ENSMUSG00000096205	89.32635413	0.688054202	0.300077603	2.292920882	0.02185256	0.079993435
ENSMUSG00000096932	102.8204303	0.688436138	0.258793838	2.660172063	0.007810074	0.035661848
ENSMUSG00000090561	65.19520093	0.689263364	0.319599444	2.156647572	0.031033135	0.105113904
ENSMUSG00000031626	9856.93702	0.689464574	0.159490629	4.322915896	1.54E-05	0.000176642
ENSMUSG00000033446	1249.958476	0.689850794	0.160913908	4.287079984	1.81E-05	0.000203596
ENSMUSG00000096215	358.5585967	0.690490061	0.177019919	3.900634833	9.59E-05	0.000885219
ENSMUSG00000022257	2451.977825	0.690694132	0.103859855	6.650251288	2.93E-11	9.48E-10
ENSMUSG00000104293	122.9842691	0.691844231	0.25740355	2.687780454	0.007192867	0.033341952
ENSMUSG00000035476	1766.545833	0.692110821	0.120606455	5.738588544	9.55E-09	2.14E-07
ENSMUSG00000023206	901.4895552	0.693394057	0.16628558	4.16989889	3.05E-05	0.000321775
ENSMUSG00000032602	1770.776869	0.694814842	0.127146449	5.464681467	4.64E-08	9.23E-07
ENSMUSG00000038884	1425.973416	0.694998773	0.142066645	4.892061548	9.98E-07	1.50E-05
ENSMUSG00000107083	183.2035047	0.695909474	0.214343236	3.246706011	0.001167489	0.007546509

ENSMUSG00000031200	319.5907284	0.696322922	0.17783509	3.915554135	9.02E-05	0.000838116
ENSMUSG00000026712	53.99837889	0.69696714	0.345561284	2.016913271	0.043704565	0.136774558
ENSMUSG00000002233	587.0693265	0.697017559	0.222465574	3.133147952	0.001729422	0.01044633
ENSMUSG00000096795	126.5206644	0.697718731	0.236851427	2.945807591	0.003221127	0.017385384
ENSMUSG00000031563	525.0714187	0.697790561	0.192686456	3.621378353	0.000293038	0.002341466
ENSMUSG00000099632	66.6976932	0.697927857	0.290758388	2.400370496	0.016378485	0.063722365
ENSMUSG00000103657	162.7107892	0.698815452	0.233552062	2.992118529	0.002770487	0.015415325
ENSMUSG00000010095	5856.421383	0.699284253	0.109956471	6.3596462	2.02E-10	5.86E-09
ENSMUSG00000020115	5381.741144	0.699434314	0.120037816	5.826783062	5.65E-09	1.31E-07
ENSMUSG00000089669	442.6063553	0.699448661	0.169214796	4.133495864	3.57E-05	0.00037077
ENSMUSG00000033308	8931.986589	0.699817215	0.133673804	5.23526071	1.65E-07	2.96E-06
ENSMUSG00000024401	1627.99201	0.700666104	0.207180101	3.381917954	0.000719816	0.005032171
ENSMUSG00000112822	124.8771348	0.701148833	0.23342746	3.00371187	0.002667078	0.014959382
ENSMUSG00000103697	141.1556607	0.701439983	0.240556971	2.915899624	0.003546646	0.018764828
ENSMUSG00000027799	8270.843938	0.701964192	0.118483291	5.924583864	3.13E-09	7.61E-08
ENSMUSG00000034101	2349.70064	0.702498413	0.131609431	5.337751312	9.41E-08	1.78E-06
ENSMUSG00000052396	1246.756142	0.702699739	0.200927531	3.497279521	0.000470029	0.003517489
ENSMUSG00000078942	14511.38304	0.702767884	0.142503265	4.931591448	8.16E-07	1.26E-05
ENSMUSG00000004383	3207.389803	0.703074412	0.104718123	6.713970711	1.89E-11	6.30E-10
ENSMUSG00000033107	978.6351251	0.703176241	0.219738555	3.20005854	0.001373997	0.008621406
ENSMUSG00000103621	100.2658889	0.703179575	0.272464559	2.580811164	0.009856848	0.042882866
ENSMUSG00000114602	107.3721412	0.703215714	0.240371208	2.925540549	0.003438584	0.018315488
ENSMUSG00000108461	289.4290458	0.703445809	0.192908141	3.646532518	0.000265803	0.002142295
ENSMUSG00000057103	387.3970148	0.703576705	0.221692838	3.173655549	0.001505322	0.009296646
ENSMUSG00000064856	123.9807721	0.70397649	0.277653896	2.535446104	0.011230421	0.04751463
ENSMUSG00000055401	462.2156485	0.705798463	0.166290762	4.244363632	2.19E-05	0.00023991
ENSMUSG00000020844	110.8539108	0.706091635	0.274148777	2.575578277	0.010007262	0.043401779
ENSMUSG00000033906	1156.594127	0.707996246	0.162452186	4.358182327	1.31E-05	0.000152567
ENSMUSG00000022270	1418.282401	0.708487804	0.214407348	3.304400763	0.000951797	0.00637801

ENSMUSG00000038545	1475.994847	0.708696846	0.170859252	4.147840032	3.36E-05	0.000350085
ENSMUSG00000063245	148.6735262	0.70986454	0.240469759	2.951990894	0.003157322	0.017119243
ENSMUSG00000003812	344.8824088	0.71043088	0.199161872	3.56710285	0.00036095	0.002806674
ENSMUSG00000102764	87.04684943	0.710971407	0.307304354	2.313574141	0.020691093	0.076573527
ENSMUSG00000086920	147.9767681	0.711220192	0.216587034	3.283761626	0.001024315	0.006776403
ENSMUSG00000032372	65.52848723	0.711301647	0.338695331	2.100122388	0.035718076	0.117363905
ENSMUSG00000026024	4165.303675	0.711389496	0.142247407	5.001071805	5.70E-07	9.02E-06
ENSMUSG00000031938	3497.386991	0.7115091	0.114549129	6.211388146	5.25E-10	1.42E-08
ENSMUSG00000078612	124.629344	0.711741689	0.273788167	2.599607193	0.009333052	0.041076851
ENSMUSG00000026077	2217.975294	0.712020283	0.208298279	3.418272512	0.0006302	0.004503071
ENSMUSG00000028019	50.56341279	0.712440504	0.363201504	1.961557142	0.049814066	0.15069425
ENSMUSG00000085241	1047.314915	0.712459384	0.176565943	4.035089503	5.46E-05	0.0005401
ENSMUSG00000030451	19692.93201	0.713043803	0.111882115	6.37317057	1.85E-10	5.40E-09
ENSMUSG00000041301	31488.64176	0.713132776	0.118152344	6.035705684	1.58E-09	4.01E-08
ENSMUSG00000029471	1270.260906	0.713425379	0.151662496	4.704032949	2.55E-06	3.52E-05
ENSMUSG00000079427	604.1780604	0.713510285	0.140172168	5.090242202	3.58E-07	5.95E-06
ENSMUSG00000047242	94.80385111	0.71421159	0.277791265	2.571036892	0.010139453	0.043838684
ENSMUSG00000021928	578.8232323	0.716895727	0.140087798	5.117474439	3.10E-07	5.22E-06
ENSMUSG00000050944	823.2350017	0.717415174	0.137600907	5.213738682	1.85E-07	3.28E-06
ENSMUSG00000026385	14256.86646	0.718307584	0.122515303	5.863002944	4.55E-09	1.08E-07
ENSMUSG00000052914	2758.642718	0.718478293	0.149156983	4.816926964	1.46E-06	2.12E-05
ENSMUSG00000028134	2534.997699	0.718874373	0.136644317	5.26091674	1.43E-07	2.61E-06
ENSMUSG00000028159	980.4285194	0.719036581	0.122266605	5.880891035	4.08E-09	9.74E-08
ENSMUSG00000106087	108.0206183	0.719119478	0.270382939	2.659633336	0.007822576	0.03570078
ENSMUSG00000022837	408.9178375	0.719248962	0.200904104	3.58006107	0.000343514	0.002680442
ENSMUSG00000022261	1567.957645	0.720041005	0.116558812	6.177490955	6.51E-10	1.75E-08
ENSMUSG00000037613	130.1618487	0.720221363	0.271480423	2.652940328	0.007979398	0.036271615
ENSMUSG00000019996	7882.988621	0.720343977	0.104170305	6.915060622	4.68E-12	1.68E-10
ENSMUSG00000102664	140.5059596	0.720433899	0.248755187	2.896156291	0.003777642	0.01970187

ENSMUSG00000039431	2884.902911	0.721759742	0.114817625	6.286140658	3.25E-10	9.15E-09
ENSMUSG00000040511	1702.904866	0.722141528	0.124008863	5.82330578	5.77E-09	1.34E-07
ENSMUSG00000056899	1798.711459	0.722645574	0.155518761	4.646677797	3.37E-06	4.50E-05
ENSMUSG00000019960	1210.180382	0.722646706	0.175526735	4.117017867	3.84E-05	0.000394982
ENSMUSG00000097908	101.9348235	0.722758211	0.245188622	2.947764077	0.003200812	0.017303625
ENSMUSG00000040811	2077.996788	0.72317713	0.163807272	4.414804795	1.01E-05	0.000120184
ENSMUSG00000037157	2474.223345	0.723180558	0.17542139	4.122533514	3.75E-05	0.000387248
ENSMUSG00000102672	77.73874251	0.723572276	0.307743049	2.351222161	0.018711858	0.070703685
ENSMUSG00000015879	220.2403335	0.723958494	0.191804464	3.774461132	0.000160354	0.001378055
ENSMUSG00000104344	148.964505	0.724342529	0.255143356	2.838962924	0.004526042	0.022855394
ENSMUSG00000032336	4282.497449	0.72458517	0.114004878	6.355738302	2.07E-10	6.00E-09
ENSMUSG00000026064	4567.984435	0.725193943	0.118115073	6.139723947	8.27E-10	2.19E-08
ENSMUSG00000037593	138.5911506	0.725385041	0.242197847	2.995010275	0.002744356	0.015311955
ENSMUSG00000063689	1092.305776	0.725576755	0.130545602	5.558032921	2.73E-08	5.60E-07
ENSMUSG00000077506	747.9001708	0.726376844	0.184110982	3.945320566	7.97E-05	0.000753707
ENSMUSG00000016534	5335.784699	0.726449086	0.111196688	6.533010122	6.45E-11	2.00E-09
ENSMUSG00000011171	81.05442836	0.726584712	0.32237172	2.25387237	0.024204198	0.086781001
ENSMUSG00000032997	881.2136537	0.727213424	0.123606381	5.883300039	4.02E-09	9.61E-08
ENSMUSG00000024610	55801.06859	0.727533204	0.349702396	2.080435283	0.037485626	0.121665979
ENSMUSG00000020846	2511.655424	0.72776857	0.138593881	5.251087322	1.51E-07	2.74E-06
ENSMUSG00000015224	329.5579162	0.727931457	0.170744743	4.263273016	2.01E-05	0.000222738
ENSMUSG00000062949	2190.3829	0.727957026	0.138679028	5.249222147	1.53E-07	2.76E-06
ENSMUSG00000084195	61.08130846	0.728020398	0.3288206	2.214035246	0.026826354	0.094154002
ENSMUSG00000024942	14730.04026	0.728187914	0.12568684	5.793668742	6.89E-09	1.58E-07
ENSMUSG00000098900	61.26755274	0.729449818	0.335377431	2.175011644	0.029629244	0.101328288
ENSMUSG00000111069	57.6081962	0.729995934	0.352381575	2.071606425	0.03830216	0.123855504
ENSMUSG00000063663	4222.097337	0.730360606	0.109747463	6.654920189	2.83E-11	9.23E-10
ENSMUSG00000103303	47.53897647	0.731034949	0.344196604	2.123887741	0.033679532	0.112069119
ENSMUSG00000038718	1241.334452	0.731363183	0.122779653	5.956713215	2.57E-09	6.33E-08

ENSMUSG00000029672	1331.875376	0.731633622	0.126832555	5.768500204	8.00E-09	1.82E-07
ENSMUSG00000033530	584.3672062	0.732262797	0.16286152	4.496229664	6.92E-06	8.60E-05
ENSMUSG00000097589	1236.53162	0.733005702	0.164148449	4.465504905	7.99E-06	9.75E-05
ENSMUSG00000052595	5001.316099	0.73412328	0.136910484	5.362067654	8.23E-08	1.58E-06
ENSMUSG00000036151	1352.067408	0.735368704	0.187867831	3.914287512	9.07E-05	0.000840776
ENSMUSG00000029279	67.53251568	0.735420411	0.333325614	2.206312323	0.027362139	0.095403856
ENSMUSG00000102258	441.3098111	0.735471046	0.183124073	4.016244466	5.91E-05	0.000580169
ENSMUSG00000043964	518.7301532	0.735807255	0.144389714	5.095981118	3.47E-07	5.78E-06
ENSMUSG00000047446	2437.437359	0.736315759	0.168480485	4.370332618	1.24E-05	0.000144848
ENSMUSG00000021589	2582.602282	0.736851547	0.154763045	4.76115954	1.92E-06	2.72E-05
ENSMUSG00000027624	1763.566519	0.736950827	0.143593206	5.13221237	2.86E-07	4.87E-06
ENSMUSG00000030793	18163.83423	0.73719428	0.101241203	7.281563835	3.30E-13	1.33E-11
ENSMUSG00000041135	914.2255109	0.737495394	0.141612608	5.207837102	1.91E-07	3.38E-06
ENSMUSG00000103495	83.26817622	0.738186135	0.300551299	2.456106955	0.014045135	0.056630004
ENSMUSG00000103926	82.78197792	0.738734046	0.292114526	2.528919247	0.011441435	0.048224426
ENSMUSG00000037287	1844.145513	0.739682813	0.114345029	6.468867244	9.87E-11	3.00E-09
ENSMUSG00000092618	2617.250605	0.74034012	0.136984396	5.40455806	6.50E-08	1.27E-06
ENSMUSG00000098449	215.5157378	0.740367358	0.241610258	3.064304324	0.002181768	0.012641106
ENSMUSG00000061825	1732.964638	0.741979939	0.1949947	3.805128746	0.00014173	0.001240275
ENSMUSG00000104402	101.5847576	0.741985614	0.280633762	2.643964178	0.008194133	0.037081444
ENSMUSG00000021176	439.1241339	0.744083564	0.155868536	4.77378938	1.81E-06	2.58E-05
ENSMUSG00000063889	522.3858981	0.744592715	0.151039591	4.929785022	8.23E-07	1.26E-05
ENSMUSG00000103937	152.3386934	0.747033021	0.22745711	3.284280812	0.00102243	0.006767946
ENSMUSG00000102670	53.0483252	0.747075462	0.33696286	2.217085473	0.026617251	0.093603906
ENSMUSG00000049303	130.9602503	0.747400164	0.301138321	2.481916484	0.01306779	0.053413633
ENSMUSG00000109154	98.69730318	0.747887839	0.316874866	2.360199304	0.018265119	0.069368723
ENSMUSG00000064602	186.3958782	0.748248238	0.240895603	3.106109979	0.001895662	0.011267366
ENSMUSG00000105643	149.9485872	0.749168185	0.281366524	2.662605968	0.007753815	0.035475016
ENSMUSG00000090622	75.51585855	0.749285	0.304728697	2.458859328	0.013937922	0.056289315



ENSMUSG00000081984	84.11186517	0.749350833	0.294328919	2.545964002	0.010897643	0.046432619
ENSMUSG00000105304	60.76730335	0.749839771	0.352849592	2.125097458	0.033578482	0.111866406
ENSMUSG00000020901	852.4498693	0.750732721	0.210900842	3.559647821	0.000371352	0.002873536
ENSMUSG00000103227	81.81142152	0.750962655	0.283358052	2.650225221	0.008043813	0.036497471
ENSMUSG00000035762	2925.574996	0.751131601	0.122523511	6.130509914	8.76E-10	2.30E-08
ENSMUSG00000077714	538.6448042	0.751318195	0.139867669	5.371635925	7.80E-08	1.51E-06
ENSMUSG00000112900	77.95630306	0.751462879	0.309108678	2.431063675	0.015054569	0.059685677
ENSMUSG00000097350	110.9876026	0.751615498	0.244735599	3.071132692	0.002132484	0.012407127
ENSMUSG00000027078	375.9895785	0.752179647	0.190539016	3.94764108	7.89E-05	0.000747391
ENSMUSG00000029003	515.0220857	0.752362589	0.158314679	4.752323615	2.01E-06	2.83E-05
ENSMUSG00000040653	99.52722862	0.752417078	0.311276296	2.417200048	0.015640419	0.061494531
ENSMUSG00000096655	95.497355	0.752511447	0.256191822	2.937296907	0.00331087	0.017774603
ENSMUSG00000015501	3201.137064	0.752706273	0.115458732	6.519266768	7.07E-11	2.17E-09
ENSMUSG00000064871	106.1288688	0.752918218	0.256014154	2.940924195	0.003272346	0.017612227
ENSMUSG00000089542	189.8129255	0.754502805	0.256408663	2.942579227	0.003254905	0.017538229
ENSMUSG00000041372	2111.665487	0.754519008	0.15998125	4.716296479	2.40E-06	3.32E-05
ENSMUSG00000039195	414.2635978	0.754674892	0.19292138	3.911826122	9.16E-05	0.000848687
ENSMUSG00000026980	3403.166465	0.755239746	0.129582115	5.828271493	5.60E-09	1.30E-07
ENSMUSG00000108560	47.38793871	0.755538732	0.375119234	2.014129544	0.043995934	0.137454936
ENSMUSG00000050212	81.34901295	0.756373366	0.367007851	2.06091876	0.039310791	0.126412394
ENSMUSG00000110386	608.2494499	0.756745146	0.190192849	3.978830693	6.93E-05	0.000668596
ENSMUSG00000062929	1189.402746	0.756826593	0.116998106	6.468708056	9.88E-11	3.00E-09
ENSMUSG00000107171	265.5272329	0.757009194	0.198801921	3.807856529	0.000140177	0.001229287
ENSMUSG00000068011	905.8044766	0.757389371	0.150361386	5.037126835	4.73E-07	7.65E-06
ENSMUSG00000106837	102.1139671	0.759430031	0.312161189	2.432813745	0.014982005	0.059514375
ENSMUSG00000022564	1162.178931	0.759832261	0.149196912	5.092814913	3.53E-07	5.87E-06
ENSMUSG00000100131	314.8834323	0.760494351	0.250004357	3.041924393	0.002350709	0.013452186
ENSMUSG00000042129	10382.59045	0.760644302	0.166873211	4.558216983	5.16E-06	6.65E-05
ENSMUSG00000064901	108.6577398	0.760783229	0.268624141	2.832147649	0.004623649	0.023249606

ENSMUSG00000072949	2602.864931	0.760844828	0.139736156	5.444867295	5.18E-08	1.02E-06
ENSMUSG00000020573	522.1728359	0.76108612	0.228730445	3.32743689	0.000876488	0.005970241
ENSMUSG00000070867	45.2588984	0.761174335	0.371775066	2.047405553	0.040618282	0.129515056
ENSMUSG00000038578	323.9561282	0.761264118	0.17927859	4.246263418	2.17E-05	0.000238439
ENSMUSG00000096145	89.88212016	0.761457466	0.300553865	2.533514136	0.011292519	0.047723035
ENSMUSG00000086015	90.41849294	0.761597271	0.258089691	2.950901555	0.003168479	0.017171385
ENSMUSG00000046056	64.49483012	0.761670198	0.310911504	2.449797412	0.014293661	0.057445114
ENSMUSG00000024843	12735.34712	0.762435565	0.156078573	4.884947053	1.03E-06	1.55E-05
ENSMUSG00000044471	314.47227	0.762584337	0.231031351	3.300782914	0.000964155	0.00644672
ENSMUSG00000108693	219.8701364	0.763833908	0.236183893	3.234064354	0.00122042	0.007814119
ENSMUSG00000110277	865.4664451	0.763858492	0.144589247	5.282955046	1.27E-07	2.34E-06
ENSMUSG00000032479	6566.506049	0.764465259	0.104498873	7.315535895	2.56E-13	1.05E-11
ENSMUSG00000022637	3703.116715	0.765130801	0.170660332	4.483354704	7.35E-06	9.05E-05
ENSMUSG00000008540	7063.408575	0.765542009	0.10531093	7.269350012	3.61E-13	1.45E-11
ENSMUSG00000067161	46.32884382	0.76600499	0.361621857	2.118248591	0.03415402	0.113323243
ENSMUSG00000031618	3364.298684	0.766281112	0.136430261	5.616650647	1.95E-08	4.12E-07
ENSMUSG00000020634	4932.737715	0.766779557	0.101242989	7.573655869	3.63E-14	1.65E-12
ENSMUSG00000020415	1366.960882	0.767324993	0.135739847	5.652908915	1.58E-08	3.40E-07
ENSMUSG00000023828	120.0936325	0.767425519	0.255795604	3.000151326	0.002698455	0.015095262
ENSMUSG00000070426	1676.483712	0.767665961	0.131726161	5.827741066	5.62E-09	1.31E-07
ENSMUSG00000026672	3641.945423	0.767747381	0.115973272	6.620037236	3.59E-11	1.16E-09
ENSMUSG00000095115	1357.107774	0.768629375	0.125926585	6.103789535	1.04E-09	2.69E-08
ENSMUSG00000016493	217.3084482	0.769554925	0.217731827	3.53441633	0.000408677	0.003122268
ENSMUSG00000035270	60.54871439	0.769636544	0.332802183	2.31259464	0.020744936	0.076721862
ENSMUSG00000070565	3076.643274	0.771370091	0.156741691	4.921282184	8.60E-07	1.32E-05
ENSMUSG00000022159	435.8373926	0.77291652	0.152453569	5.069848648	3.98E-07	6.52E-06
ENSMUSG00000099746	400.2153422	0.772950405	0.180305066	4.286903425	1.81E-05	0.000203655
ENSMUSG00000052085	2004.83878	0.773041327	0.19707807	3.922513174	8.76E-05	0.000817673
ENSMUSG00000027997	4500.18813	0.773601586	0.123346226	6.271789684	3.57E-10	9.96E-09

ENSMUSG00000009585	6208.00364	0.774143898	0.197449747	3.92071355	8.83E-05	0.000823115
ENSMUSG00000022863	184.2966622	0.774303546	0.192008319	4.032656247	5.51E-05	0.000545168
ENSMUSG00000026278	1639.317653	0.774336892	0.130107389	5.951521251	2.66E-09	6.52E-08
ENSMUSG00000103734	228.1487097	0.775811953	0.190182943	4.079293024	4.52E-05	0.000459161
ENSMUSG00000030670	133.7521134	0.776454896	0.242535225	3.201410839	0.001367564	0.008595841
ENSMUSG00000114622	58.39984561	0.776765514	0.378685731	2.051214105	0.040246101	0.128659446
ENSMUSG00000020577	2150.586871	0.776807778	0.13203536	5.883331395	4.02E-09	9.61E-08
ENSMUSG00000026832	324.7493047	0.776929602	0.256862193	3.024694263	0.002488846	0.014108091
ENSMUSG00000025779	134.1864483	0.77733604	0.237566889	3.272072316	0.001067623	0.007027465
ENSMUSG00000021336	3106.57799	0.777454764	0.22426125	3.466736959	0.000526817	0.003873574
ENSMUSG00000055114	3914.309349	0.778718063	0.17279485	4.506604585	6.59E-06	8.23E-05
ENSMUSG00000025192	4732.179933	0.779359282	0.109454566	7.120390774	1.08E-12	4.19E-11
ENSMUSG00000010911	516.7814819	0.779900417	0.167793374	4.647981007	3.35E-06	4.48E-05
ENSMUSG00000034560	3057.578843	0.780455341	0.126881841	6.151040484	7.70E-10	2.05E-08
ENSMUSG00000016206	491.4681871	0.780477874	0.184101316	4.239393231	2.24E-05	0.00024419
ENSMUSG00000103546	171.0468184	0.781031345	0.246563988	3.16766187	0.001536701	0.00946423
ENSMUSG00000107205	50.88569175	0.781477002	0.362013098	2.158698139	0.030873593	0.104652987
ENSMUSG00000036580	2159.512088	0.781613202	0.116450833	6.711958853	1.92E-11	6.38E-10
ENSMUSG00000029651	629.2331251	0.782175447	0.163461648	4.785070108	1.71E-06	2.46E-05
ENSMUSG00000002058	314.376218	0.782423321	0.16202024	4.829170224	1.37E-06	2.00E-05
ENSMUSG00000065232	86.68765476	0.783119188	0.296616632	2.640172881	0.008286375	0.037415355
ENSMUSG00000065778	71.1293831	0.783318011	0.295909479	2.647154172	0.008117234	0.036778226
ENSMUSG00000021733	6075.690486	0.783334134	0.127731764	6.13264948	8.64E-10	2.28E-08
ENSMUSG00000026395	177.3253992	0.78470557	0.293302775	2.675411342	0.007463761	0.034383255
ENSMUSG00000026222	477.166857	0.785381843	0.237491058	3.306995423	0.000943024	0.006328735
ENSMUSG00000087530	174.4088836	0.785943653	0.223701317	3.513361762	0.000442475	0.003341534
ENSMUSG00000075588	109.7874233	0.786645695	0.270233488	2.910985237	0.00360291	0.018981456
ENSMUSG00000041420	354.9378933	0.787341244	0.175623261	4.4831262	7.36E-06	9.06E-05
ENSMUSG00000111417	121.8139939	0.787357061	0.272945424	2.884668477	0.00391826	0.020302306

ENSMUSG00000020300	926.6795453	0.787648438	0.14794237	5.324022022	1.01E-07	1.90E-06
ENSMUSG00000029166	138.8996239	0.787703477	0.245486803	3.208740623	0.001333177	0.008403386
ENSMUSG00000110079	63.02899951	0.787761374	0.362987192	2.1702181	0.029990328	0.102280822
ENSMUSG00000031438	8965.670939	0.787967614	0.111773258	7.0496971	1.79E-12	6.75E-11
ENSMUSG00000091537	6510.499291	0.78892141	0.124422658	6.340657094	2.29E-10	6.57E-09
ENSMUSG00000110405	95.58954653	0.789012246	0.277984455	2.838332255	0.004534995	0.022891562
ENSMUSG00000071341	184.4194126	0.789039228	0.258277674	3.055003614	0.002250578	0.012972381
ENSMUSG00000060771	218.1570709	0.789951138	0.178043699	4.436838487	9.13E-06	0.000109572
ENSMUSG00000013643	52906.41227	0.789962179	0.114543068	6.896638884	5.32E-12	1.90E-10
ENSMUSG00000064672	123.443944	0.790306291	0.267121199	2.958605662	0.003090343	0.016821512
ENSMUSG00000104235	301.302103	0.790398109	0.184151368	4.292110989	1.77E-05	0.000199871
ENSMUSG00000046808	113.2732572	0.790772621	0.256948201	3.077556562	0.002087052	0.012187314
ENSMUSG00000097855	71.15840919	0.790816691	0.301859943	2.619813289	0.008797792	0.039231756
ENSMUSG00000028980	2169.711055	0.79121209	0.119956178	6.595842801	4.23E-11	1.34E-09
ENSMUSG00000028307	26417.24759	0.791876702	0.141841725	5.582819191	2.37E-08	4.94E-07
ENSMUSG00000086537	213.6821266	0.792580402	0.363128629	2.182643667	0.029062061	0.099878723
ENSMUSG00000109231	41.03652768	0.79265407	0.403622497	1.963850071	0.049547481	0.150130215
ENSMUSG00000104325	140.7736191	0.792686577	0.338746833	2.34005605	0.019280846	0.072387567
ENSMUSG00000091955	87.51443829	0.793179182	0.313671356	2.528694973	0.011448748	0.048227904
ENSMUSG00000108825	234.5168787	0.794039414	0.216932609	3.660304542	0.000251916	0.002042899
ENSMUSG00000111356	114.4947337	0.794188363	0.24543014	3.235903957	0.001212582	0.007775097
ENSMUSG00000102157	74.59672034	0.794463462	0.36005692	2.206494079	0.027349424	0.095384086
ENSMUSG00000107227	91.65462719	0.794490981	0.388245394	2.046362926	0.040720677	0.129767336
ENSMUSG00000061531	2373.341444	0.794683097	0.185151062	4.292079606	1.77E-05	0.000199871
ENSMUSG00000030629	3496.834046	0.794700011	0.121019372	6.566717364	5.14E-11	1.61E-09
ENSMUSG00000104973	42.98158452	0.794817007	0.393516048	2.019782954	0.043405906	0.136043188
ENSMUSG00000071724	45.63211621	0.794843119	0.397450279	1.999855479	0.045515872	0.141116288
ENSMUSG00000027784	1391.373375	0.795005703	0.161679857	4.917159875	8.78E-07	1.34E-05
ENSMUSG00000028179	4251.797751	0.795194029	0.152751167	5.205813119	1.93E-07	3.41E-06

ENSMUSG00000040204	4117.723866	0.795421261	0.131406005	6.05315764	1.42E-09	3.62E-08
ENSMUSG00000026888	303.2874731	0.795616219	0.169193727	4.702397862	2.57E-06	3.54E-05
ENSMUSG00000077323	233.7323536	0.795645555	0.25758541	3.088861102	0.002009254	0.01183273
ENSMUSG00000102283	54.17887707	0.79673042	0.340642711	2.338903475	0.01934043	0.072539342
ENSMUSG00000022244	1435.387331	0.797104876	0.122785109	6.491869251	8.48E-11	2.59E-09
ENSMUSG00000110773	75.32544877	0.797189663	0.360823641	2.209360949	0.027149545	0.094929759
ENSMUSG00000104432	77.11991715	0.797274844	0.284937196	2.798072192	0.005140862	0.025409212
ENSMUSG00000035245	1406.896288	0.797896831	0.125674296	6.348926185	2.17E-10	6.26E-09
ENSMUSG00000058248	38.44559312	0.799106456	0.399369783	2.000918672	0.045401155	0.140883162
ENSMUSG00000040563	92.50051702	0.799179114	0.297988241	2.681914929	0.007320207	0.033840784
ENSMUSG00000062373	2126.299325	0.799985982	0.134030607	5.968681311	2.39E-09	5.93E-08
ENSMUSG00000089901	159.7755575	0.801162412	0.311056331	2.575618404	0.010006101	0.043401779
ENSMUSG00000075010	611.2699692	0.801231299	0.21447075	3.735853489	0.00018708	0.00157913
ENSMUSG00000108650	88.58485019	0.801272361	0.299936108	2.67147682	0.007551829	0.0347028
ENSMUSG00000110442	53.84734686	0.801444762	0.346409659	2.3135751	0.020691041	0.076573527
ENSMUSG00000021416	134.6220348	0.801714071	0.312710773	2.563755838	0.010354636	0.044587513
ENSMUSG00000006435	52.37511517	0.801911112	0.345681955	2.319794542	0.020351994	0.075468877
ENSMUSG00000039217	288.2938078	0.802252471	0.178528997	4.493681603	7.00E-06	8.68E-05
ENSMUSG00000005148	48457.69287	0.802723492	0.097901779	8.19927382	2.42E-16	1.35E-14
ENSMUSG00000042312	172.6500134	0.803173444	0.219013563	3.667231527	0.000245191	0.001998487
ENSMUSG00000113984	48.1347531	0.804499278	0.408686195	1.968501229	0.049010395	0.148939753
ENSMUSG00000102719	330.8109935	0.804755511	0.207639653	3.875731335	0.000106305	0.00096803
ENSMUSG00000055978	160.6223679	0.805109995	0.312723008	2.574514742	0.010038081	0.043518515
ENSMUSG00000006179	153.8325868	0.805248678	0.261038127	3.084793353	0.002036936	0.011947847
ENSMUSG00000008193	470.7708567	0.805523876	0.186427531	4.320841843	1.55E-05	0.000178127
ENSMUSG00000059708	264.0107038	0.80645567	0.203516228	3.962611133	7.41E-05	0.000708444
ENSMUSG00000040329	123.037696	0.806831327	0.334496855	2.412074475	0.015862041	0.06218819
ENSMUSG00000113922	46.49859758	0.807070804	0.363158679	2.222364083	0.026258711	0.092525755
ENSMUSG00000019891	4172.829564	0.807764882	0.108238545	7.462820968	8.47E-14	3.70E-12

ENSMUSG00000037973	206.0810266	0.809095124	0.230405366	3.511615802	0.000445391	0.003356767
ENSMUSG00000025887	771.7695837	0.810442276	0.161206431	5.027356971	4.97E-07	8.00E-06
ENSMUSG00000062638	4687.493223	0.810578894	0.149068924	5.437611497	5.40E-08	1.06E-06
ENSMUSG00000097230	63.2166128	0.811264094	0.301311593	2.692442355	0.00709308	0.03296848
ENSMUSG00000106166	159.8083985	0.811391559	0.230367864	3.522156026	0.000428052	0.003246936
ENSMUSG00000036473	985.0372004	0.811994092	0.170516353	4.761971958	1.92E-06	2.72E-05
ENSMUSG00000044067	228.4863595	0.81220873	0.332703703	2.441237424	0.014637028	0.058477314
ENSMUSG00000105804	343.926677	0.812451098	0.213542215	3.804639274	0.000142011	0.001241956
ENSMUSG00000030068	550.1878143	0.81251537	0.212573386	3.822281738	0.000132222	0.001166414
ENSMUSG00000078784	1800.276285	0.813945519	0.13810686	5.893592232	3.78E-09	9.11E-08
ENSMUSG00000041476	189.3363808	0.814164582	0.223376764	3.644804273	0.000267595	0.002155162
ENSMUSG00000024105	517.4727087	0.815090376	0.206976241	3.93808668	8.21E-05	0.00077403
ENSMUSG00000022636	3549.196429	0.815270466	0.11678071	6.981208321	2.93E-12	1.08E-10
ENSMUSG00000001627	9399.071464	0.815514506	0.167096184	4.880509445	1.06E-06	1.58E-05
ENSMUSG00000028518	2009.736667	0.816748679	0.115140329	7.093506549	1.31E-12	5.02E-11
ENSMUSG00000095865	162.0131526	0.81679441	0.245198775	3.33115208	0.000864873	0.00590194
ENSMUSG00000029869	56.19711459	0.817255622	0.416448107	1.962442879	0.049710945	0.15049854
ENSMUSG00000046727	8591.842875	0.817615976	0.11218336	7.288210825	3.14E-13	1.27E-11
ENSMUSG00000105933	192.4789599	0.817898194	0.216662925	3.774979927	0.000160021	0.00137572
ENSMUSG00000103133	67.69987717	0.818919888	0.306296088	2.673621767	0.007503703	0.034524464
ENSMUSG00000110238	77.84028326	0.819493097	0.290969435	2.816423301	0.004856164	0.024254716
ENSMUSG00000003283	1381.402099	0.819963078	0.181126887	4.527009163	5.98E-06	7.55E-05
ENSMUSG00000081487	78.85943356	0.820390524	0.275103505	2.982115853	0.002862636	0.015829322
ENSMUSG00000019845	1076.612753	0.820473021	0.124868082	6.57071856	5.01E-11	1.57E-09
ENSMUSG00000048022	109.0569437	0.820687211	0.32901745	2.4943577	0.012618531	0.051889823
ENSMUSG00000026986	122.6475956	0.820894891	0.241599987	3.397743941	0.00067944	0.004798033
ENSMUSG00000005413	79.05498126	0.822553198	0.282218134	2.9146008	0.003561438	0.018816305
ENSMUSG00000060063	367.3668196	0.822572434	0.235792799	3.488539251	0.000485668	0.003617525
ENSMUSG00000112102	78.8714082	0.823457716	0.296766831	2.774763311	0.00552419	0.026921974

ENSMUSG00000079523	11244.23495	0.823459409	0.19907888	4.136347405	3.53E-05	0.000366365
ENSMUSG00000039031	4916.381787	0.82403432	0.157858602	5.220078651	1.79E-07	3.19E-06
ENSMUSG00000034731	161.7113261	0.824153501	0.281967114	2.922870997	0.003468202	0.018441671
ENSMUSG00000096971	114.9708624	0.824384669	0.240244442	3.431441173	0.000600383	0.004325485
ENSMUSG00000029153	9286.322197	0.825033955	0.121760194	6.775892224	1.24E-11	4.21E-10
ENSMUSG00000077711	119.8387363	0.825292807	0.296833438	2.780322905	0.005430487	0.026540798
ENSMUSG00000030834	4407.432494	0.826234287	0.17919313	4.61085916	4.01E-06	5.30E-05
ENSMUSG00000032053	39.23823565	0.826312799	0.417961523	1.977006863	0.048040854	0.146781627
ENSMUSG00000073002	58.08760044	0.828437922	0.366072666	2.263042284	0.023633083	0.085130251
ENSMUSG00000097036	33.49014039	0.828542959	0.421026772	1.967910389	0.049078349	0.14909362
ENSMUSG00000108741	120.7066865	0.829361815	0.249883682	3.318991494	0.000903432	0.006121979
ENSMUSG00000097081	43.5287454	0.829605788	0.366349737	2.264518585	0.023542238	0.084871557
ENSMUSG00000023019	8076.206397	0.829637003	0.123233542	6.732233687	1.67E-11	5.61E-10
ENSMUSG00000029016	758.993561	0.830318818	0.143184896	5.798927389	6.67E-09	1.54E-07
ENSMUSG00000061981	2267.503878	0.830345602	0.13004792	6.384920282	1.71E-10	5.03E-09
ENSMUSG00000058921	446.9055906	0.830573811	0.205353505	4.044604991	5.24E-05	0.000522965
ENSMUSG00000019737	1250.303951	0.830602163	0.208599233	3.981808324	6.84E-05	0.000661418
ENSMUSG00000029919	151.7475455	0.830789982	0.243402187	3.413239597	0.000641955	0.004576801
ENSMUSG00000081399	57.49684026	0.832038348	0.31971881	2.602406618	0.009257202	0.040823584
ENSMUSG00000050064	549.8724302	0.832060516	0.147817545	5.628969911	1.81E-08	3.86E-07
ENSMUSG00000052912	167.1996238	0.832071337	0.24455301	3.402417071	0.000667926	0.004732405
ENSMUSG00000027134	554.3380247	0.83228292	0.178427248	4.664550563	3.09E-06	4.18E-05
ENSMUSG00000093793	145.8197309	0.832978777	0.251114433	3.317128235	0.000909479	0.006158106
ENSMUSG00000061740	92.31604851	0.833731538	0.404754557	2.059844724	0.039413387	0.126687511
ENSMUSG00000072235	816.4910191	0.833791108	0.169127578	4.92995359	8.22E-07	1.26E-05
ENSMUSG00000039100	7895.583801	0.833891224	0.229370645	3.6355621	0.000277375	0.002225888
ENSMUSG00000103162	83.79434497	0.834045864	0.29325375	2.844109802	0.00445357	0.022541775
ENSMUSG00000034903	2997.530639	0.835888254	0.139837266	5.977578651	2.26E-09	5.63E-08
ENSMUSG00000028214	484.9465319	0.836165332	0.226986254	3.683770795	0.000229809	0.001891671

ENSMUSG00000093880	272.5367964	0.836182954	0.230124003	3.633619012	0.000279473	0.002240114
ENSMUSG00000021792	1286.781527	0.836336619	0.241577741	3.461977153	0.000536223	0.003924615
ENSMUSG00000026102	496.1015139	0.836964153	0.176798559	4.733998715	2.20E-06	3.07E-05
ENSMUSG00000113775	139.8930999	0.837099662	0.30464555	2.747782339	0.005999983	0.028725979
ENSMUSG00000104039	97.05863406	0.837111996	0.270206245	3.098048293	0.001947997	0.01153539
ENSMUSG00000072972	190.3891954	0.837558588	0.216765725	3.863888477	0.000111596	0.001007982
ENSMUSG00000089417	5322.007996	0.83798693	0.13253973	6.322533836	2.57E-10	7.31E-09
ENSMUSG00000111264	149.9771636	0.838629176	0.210009331	3.993294829	6.52E-05	0.000634293
ENSMUSG00000114524	131.8795456	0.840295712	0.252329065	3.330158234	0.000867966	0.005917615
ENSMUSG00000038415	2421.718643	0.840474361	0.135237642	6.214796036	5.14E-10	1.40E-08
ENSMUSG00000097222	1795.252282	0.840684109	0.126704061	6.635021054	3.24E-11	1.05E-09
ENSMUSG00000022575	2882.244814	0.840729119	0.151610749	5.545313415	2.93E-08	5.98E-07
ENSMUSG00000041134	1193.725285	0.840931866	0.145515357	5.778990519	7.52E-09	1.72E-07
ENSMUSG00000087159	63.31071346	0.842662806	0.317874194	2.650931788	0.008027005	0.036443453
ENSMUSG00000051439	1222.856771	0.8439455	0.187571906	4.499317194	6.82E-06	8.48E-05
ENSMUSG00000007038	2236.609305	0.84442821	0.128591309	6.566759586	5.14E-11	1.61E-09
ENSMUSG00000104969	175.8418428	0.845267952	0.232377243	3.637481621	0.000275317	0.002211973
ENSMUSG00000106341	75.64950058	0.845270631	0.323122742	2.615942862	0.008898145	0.039568798
ENSMUSG00000021280	1021.999804	0.847601612	0.21044281	4.027705257	5.63E-05	0.000555787
ENSMUSG00000025969	156.9819698	0.847895729	0.388258527	2.183843164	0.028973775	0.099652089
ENSMUSG00000111425	71.81472126	0.848238005	0.353533009	2.399317697	0.016425657	0.063833726
ENSMUSG00000020226	152.0973758	0.849227304	0.353986903	2.399035942	0.016438301	0.063843705
ENSMUSG00000033355	221.8115958	0.850331919	0.207563228	4.096736813	4.19E-05	0.000427859
ENSMUSG00000103432	119.055282	0.850557977	0.275020871	3.092703384	0.001983423	0.011707952
ENSMUSG00000048911	197.3297995	0.850638761	0.23937761	3.553543547	0.000380078	0.002932915
ENSMUSG00000074093	1567.291581	0.850760056	0.151879475	5.60154724	2.12E-08	4.48E-07
ENSMUSG00000020847	5412.802422	0.8508331	0.127504839	6.672947514	2.51E-11	8.20E-10
ENSMUSG00000043760	161.2118838	0.851419525	0.2855549	2.981631644	0.002867167	0.015846518
ENSMUSG00000038665	509.4291722	0.852543847	0.224001315	3.80597698	0.000141246	0.001237202



ENSMUSG00000079445	377.6953029	0.852670532	0.243104631	3.507421998	0.000452471	0.00340552
ENSMUSG00000107364	90.98053874	0.852869689	0.26658044	3.199295825	0.001377637	0.008639676
ENSMUSG00000065208	128.1819969	0.853030831	0.253551875	3.364324686	0.000767312	0.005304349
ENSMUSG00000103132	170.8199449	0.853083056	0.310294254	2.7492712	0.005972795	0.028620389
ENSMUSG00000054676	813.1243947	0.853305129	0.14329167	5.955022573	2.60E-09	6.39E-08
ENSMUSG00000104315	159.1239572	0.853524002	0.235105341	3.630389679	0.000282994	0.002266897
ENSMUSG00000059325	7781.606869	0.854420226	0.10661981	8.01370987	1.11E-15	5.97E-14
ENSMUSG00000111340	76.64679507	0.854427836	0.419517895	2.036689842	0.041681133	0.13212259
ENSMUSG00000108238	393.3587075	0.855308192	0.21784801	3.926169401	8.63E-05	0.000808733
ENSMUSG00000110635	121.1410876	0.855559422	0.242522747	3.527749185	0.000419109	0.00319149
ENSMUSG00000104449	34.31155406	0.856119199	0.402442837	2.127306342	0.033394638	0.111383245
ENSMUSG00000105656	145.4227191	0.856350764	0.243505225	3.516765466	0.00043684	0.003309293
ENSMUSG00000043079	589.1061028	0.856983931	0.263750632	3.249220392	0.001157218	0.007493355
ENSMUSG00000102565	55.46732063	0.857628067	0.350902337	2.444064848	0.014522816	0.05813558
ENSMUSG00000037211	1770.236777	0.860364073	0.155694079	5.525990956	3.28E-08	6.64E-07
ENSMUSG00000027699	9150.891928	0.860423223	0.139580907	6.164333217	7.08E-10	1.89E-08
ENSMUSG00000103373	416.4185519	0.860674721	0.166190383	5.178847936	2.23E-07	3.89E-06
ENSMUSG00000114576	480.0953389	0.860730954	0.172324466	4.994827341	5.89E-07	9.26E-06
ENSMUSG00000038936	582.2860846	0.861300248	0.138155743	6.234270316	4.54E-10	1.25E-08
ENSMUSG00000100313	44.37111517	0.861338331	0.380586406	2.26318733	0.023624144	0.085125551
ENSMUSG00000020377	197.7194829	0.862359459	0.234170268	3.682617211	0.000230852	0.001896913
ENSMUSG00000001248	2457.148572	0.86259586	0.207346813	4.160159724	3.18E-05	0.000334069
ENSMUSG00000019843	1083.17028	0.862850031	0.154853147	5.57205358	2.52E-08	5.22E-07
ENSMUSG00000071547	817.4574786	0.863563999	0.13662013	6.320913293	2.60E-10	7.37E-09
ENSMUSG00000107155	44.92869615	0.863983856	0.363247877	2.378496644	0.017383395	0.066747089
ENSMUSG00000112254	70.82342367	0.86402002	0.303497087	2.846880768	0.004414989	0.02238206
ENSMUSG00000113752	215.3902081	0.865763916	0.197964479	4.373329611	1.22E-05	0.000143023
ENSMUSG00000102833	73.35960225	0.865786809	0.293715468	2.947705865	0.003201415	0.017303625
ENSMUSG00000046159	1738.342831	0.865926961	0.16636248	5.205061641	1.94E-07	3.42E-06

ENSMUSG00000087176	45.36690644	0.86594044	0.375300122	2.30732789	0.021036548	0.077555968
ENSMUSG00000022064	2040.536195	0.867006877	0.142658622	6.077493723	1.22E-09	3.14E-08
ENSMUSG00000104706	123.6126967	0.867389155	0.255957789	3.388797662	0.000701998	0.004930789
ENSMUSG00000086813	266.4421751	0.867636036	0.245824174	3.529498436	0.000416348	0.003174352
ENSMUSG00000111709	155.796654	0.868159456	0.329698854	2.633189186	0.008458722	0.038016516
ENSMUSG00000029463	504.7541379	0.86835457	0.151076473	5.747781582	9.04E-09	2.04E-07
ENSMUSG00000029772	19335.93772	0.868556672	0.127052245	6.83621665	8.13E-12	2.83E-10
ENSMUSG00000022615	136.1718999	0.869029729	0.298132439	2.914911682	0.003557892	0.018806483
ENSMUSG00000095690	43.98190119	0.869429904	0.389021719	2.23491353	0.025423026	0.09019633
ENSMUSG00000024479	3747.997655	0.869591469	0.11641938	7.46947347	8.05E-14	3.52E-12
ENSMUSG00000109314	1278.828808	0.869848921	0.165101922	5.26855721	1.38E-07	2.51E-06
ENSMUSG00000086944	38.84004236	0.870626289	0.402437941	2.163380239	0.030511946	0.103647664
ENSMUSG00000102363	47.15056826	0.870695026	0.343704465	2.533266557	0.011300498	0.04774771
ENSMUSG00000061758	830.1133397	0.871213738	0.143295858	6.079824974	1.20E-09	3.09E-08
ENSMUSG00000110142	45.14130604	0.873836018	0.412536894	2.118200896	0.034158057	0.113323243
ENSMUSG00000080316	84.41324386	0.873893427	0.274533952	3.183188896	0.001456626	0.009053569
ENSMUSG00000107841	46.48151296	0.874151239	0.395443993	2.210556372	0.027066573	0.094773377
ENSMUSG00000107976	64.95618103	0.874231547	0.320016695	2.731831061	0.006298343	0.029916793
ENSMUSG00000107050	78.11118596	0.874323339	0.31453874	2.779700014	0.005440914	0.026580025
ENSMUSG00000080712	288.5587554	0.874795058	0.217480551	4.022405923	5.76E-05	0.00056719
ENSMUSG00000064925	39.52951755	0.874878054	0.428657697	2.040971293	0.041253681	0.131119056
ENSMUSG00000074024	1807.418928	0.874971193	0.11965146	7.312666274	2.62E-13	1.07E-11
ENSMUSG00000043068	83.91253148	0.875812761	0.296334405	2.955487939	0.003121749	0.016959348
ENSMUSG00000022763	454.3816069	0.875849887	0.156852239	5.583917037	2.35E-08	4.91E-07
ENSMUSG00000051043	322.9439436	0.876045824	0.196792805	4.451615121	8.52E-06	0.000103128
ENSMUSG00000037627	369.2435648	0.876302164	0.246612805	3.553352245	0.000380355	0.002933901
ENSMUSG00000112449	48.91375478	0.876897671	0.365096184	2.401826448	0.016313446	0.063524735
ENSMUSG00000113841	29.30463996	0.877120493	0.43429475	2.019643325	0.043420398	0.136057087
ENSMUSG00000022747	3034.85822	0.878333055	0.104111712	8.436448083	3.27E-17	2.06E-15

ENSMUSG00000072571	805.815365	0.879931013	0.147345697	5.971881318	2.35E-09	5.82E-08
ENSMUSG00000003355	368.3775069	0.879949333	0.231708829	3.797651293	0.000146074	0.001271006
ENSMUSG00000115576	36.31850043	0.880020762	0.423839495	2.076306651	0.037865599	0.122720638
ENSMUSG00000061731	4384.253837	0.880374536	0.119436797	7.371049419	1.69E-13	7.04E-12
ENSMUSG00000038217	225.6515608	0.880380201	0.247765978	3.553273165	0.000380469	0.002933901
ENSMUSG00000110068	126.5230801	0.880403962	0.272117024	3.235387288	0.001214778	0.007784705
ENSMUSG00000023045	2328.280621	0.880924613	0.122378865	7.198339434	6.10E-13	2.44E-11
ENSMUSG00000060227	1095.227312	0.881150442	0.163461456	5.390570127	7.02E-08	1.36E-06
ENSMUSG00000026893	1136.406702	0.881164702	0.132007639	6.675103851	2.47E-11	8.10E-10
ENSMUSG00000037493	365.1477212	0.881261374	0.244246779	3.608077772	0.000308474	0.002446401
ENSMUSG00000019850	3988.641243	0.882670672	0.165592938	5.330364234	9.80E-08	1.84E-06
ENSMUSG00000053164	136.0917904	0.882705561	0.251222546	3.513639904	0.000442012	0.003340794
ENSMUSG00000060935	710.9401936	0.884650042	0.158560491	5.579258968	2.42E-08	5.03E-07
ENSMUSG00000065637	144.7673038	0.885399167	0.219072185	4.041586416	5.31E-05	0.000528562
ENSMUSG00000106751	44.59847992	0.885703316	0.396056206	2.236307129	0.02533166	0.08997073
ENSMUSG00000094382	50.00453698	0.886616446	0.395970461	2.23909744	0.025149577	0.089465738
ENSMUSG00000030088	4674.784968	0.886753539	0.125497203	7.06592275	1.60E-12	6.03E-11
ENSMUSG00000108137	47.76615635	0.886759548	0.354271273	2.503052368	0.012312732	0.050924749
ENSMUSG00000093908	70.50827415	0.887935079	0.343463297	2.585240073	0.009731121	0.042469042
ENSMUSG00000105137	87.16262307	0.889914499	0.310533357	2.86576137	0.004160077	0.021381396
ENSMUSG00000031558	2870.593609	0.890794373	0.166084003	5.363517009	8.16E-08	1.57E-06
ENSMUSG00000064655	76.48431824	0.890849891	0.281737514	3.161985343	0.001566975	0.009629402
ENSMUSG00000094530	70.90738166	0.890865246	0.320020961	2.783771548	0.005373086	0.026328668
ENSMUSG00000060181	611.0663166	0.890879984	0.184643175	4.824873609	1.40E-06	2.04E-05
ENSMUSG00000069456	192.6653232	0.89152879	0.263305135	3.385914938	0.000709414	0.004976607
ENSMUSG00000102919	78.42727624	0.89294669	0.279937296	3.189809659	0.001423665	0.008883369
ENSMUSG00000020275	1096.775455	0.8959524	0.155769732	5.751774689	8.83E-09	2.00E-07
ENSMUSG00000085776	39.09653393	0.896321396	0.412366763	2.173602424	0.029735006	0.101596503
ENSMUSG00000093514	233.0553124	0.896433726	0.18867179	4.751286491	2.02E-06	2.85E-05

ENSMUSG00000088252	73.82458172	0.897014076	0.343176216	2.613858518	0.00895261	0.039755507
ENSMUSG00000104925	58.29622084	0.897065328	0.326761797	2.745318873	0.006045213	0.028886851
ENSMUSG00000078650	146.124179	0.897109351	0.372801854	2.406397237	0.016110736	0.062943494
ENSMUSG00000027200	3760.474917	0.897133295	0.146453093	6.125738128	9.03E-10	2.37E-08
ENSMUSG00000091514	41.64369796	0.897380998	0.371062339	2.418410344	0.015588487	0.061376914
ENSMUSG00000108214	348.9089945	0.898050067	0.184968959	4.855139322	1.20E-06	1.78E-05
ENSMUSG00000022900	495.5956149	0.898397139	0.182860339	4.913023478	8.97E-07	1.37E-05
ENSMUSG00000065196	94.19782596	0.899154525	0.298388974	3.013363777	0.00258369	0.014561251
ENSMUSG00000011148	125.8641584	0.899377842	0.287283438	3.130628934	0.001744324	0.010510719
ENSMUSG00000109118	77.78375966	0.899635795	0.304303109	2.956380553	0.003112728	0.016921321
ENSMUSG00000031584	12733.08912	0.899901011	0.167792286	5.363184642	8.18E-08	1.57E-06
ENSMUSG00000060586	15202.18633	0.899934428	0.436214957	2.06305266	0.039107625	0.12595886
ENSMUSG00000086847	47.91475237	0.900264257	0.381210076	2.361596174	0.018196451	0.069178156
ENSMUSG00000035429	2919.593691	0.9005816	0.195885496	4.597489962	4.28E-06	5.62E-05
ENSMUSG00000070427	458.3639008	0.900598498	0.142160148	6.335098198	2.37E-10	6.80E-09
ENSMUSG00000109852	82.23227321	0.900696607	0.331086917	2.720423432	0.006519837	0.030765739
ENSMUSG00000030263	1100.974597	0.901771378	0.228890493	3.93975025	8.16E-05	0.00076979
ENSMUSG00000112090	33.71169472	0.903475151	0.406647729	2.221763669	0.026299281	0.092624806
ENSMUSG00000023032	226.3147421	0.904992272	0.186094395	4.863081826	1.16E-06	1.72E-05
ENSMUSG00000034449	4022.349592	0.905634536	0.141123783	6.417306272	1.39E-10	4.12E-09
ENSMUSG00000021139	102.4271373	0.906542199	0.285071603	3.180050866	0.001472492	0.009138517
ENSMUSG00000108961	156.6120044	0.906770937	0.242273955	3.742750378	0.000182017	0.001541064
ENSMUSG00000046157	864.285754	0.907015894	0.117791644	7.700171818	1.36E-14	6.52E-13
ENSMUSG00000041845	180.4719199	0.907152111	0.232459858	3.902403273	9.52E-05	0.000879867
ENSMUSG00000114267	98.62974736	0.907617396	0.294794224	3.078816753	0.002078245	0.012149619
ENSMUSG00000105084	61.01734813	0.908183352	0.335542577	2.706611363	0.006797378	0.031881753
ENSMUSG00000000489	84.68492005	0.909499695	0.406697738	2.236303795	0.025331878	0.08997073
ENSMUSG00000057596	486.7837793	0.909704585	0.237793277	3.82561103	0.000130448	0.001154872
ENSMUSG00000086607	89.3258021	0.910102448	0.352941936	2.578618053	0.00991964	0.043113991

ENSMUSG00000111003	36.22786538	0.910900317	0.42890543	2.123778936	0.033688633	0.112082681
ENSMUSG00000040253	472.0303021	0.911183759	0.215539385	4.227458288	2.36E-05	0.000256218
ENSMUSG00000052102	874.0367513	0.911432135	0.149876286	6.08122978	1.19E-09	3.08E-08
ENSMUSG00000027995	666.2624441	0.911666626	0.178220248	5.115393101	3.13E-07	5.28E-06
ENSMUSG00000097375	406.5011722	0.912127692	0.183810897	4.962315659	6.97E-07	1.08E-05
ENSMUSG00000025656	114.8061735	0.912165433	0.274424978	3.323915481	0.000887631	0.006031401
ENSMUSG00000087022	40.11565926	0.912204815	0.396584691	2.300151358	0.021439647	0.078794588
ENSMUSG00000082315	62.74388019	0.913192542	0.35075691	2.603491239	0.009227963	0.040710741
ENSMUSG00000114613	74.32517283	0.91407063	0.315539299	2.896851943	0.003769276	0.019662836
ENSMUSG00000090582	368.2709865	0.914980876	0.203593647	4.4941524	6.98E-06	8.67E-05
ENSMUSG00000027499	127.7151941	0.915107129	0.310340098	2.948723466	0.003190894	0.017259306
ENSMUSG00000107165	68.26201988	0.915533994	0.326324843	2.805590849	0.005022442	0.024912251
ENSMUSG00000019055	233.288121	0.915535809	0.213472253	4.288781305	1.80E-05	0.000202349
ENSMUSG00000028339	173.71497	0.91641207	0.291503793	3.143739786	0.001668037	0.01014423
ENSMUSG00000034584	6593.129024	0.917252209	0.113799179	8.060270905	7.61E-16	4.12E-14
ENSMUSG00000064344	40.32192327	0.917934152	0.415708896	2.208117651	0.027236073	0.095142804
ENSMUSG00000075463	152.262494	0.918142274	0.212802941	4.314518732	1.60E-05	0.000182739
ENSMUSG00000096967	112.2369696	0.919345776	0.315560782	2.913371462	0.00357549	0.018868198
ENSMUSG00000093979	339.3501017	0.920205644	0.274771641	3.34898332	0.000811087	0.005570695
ENSMUSG00000106099	272.0787083	0.920851794	0.212621451	4.330944917	1.48E-05	0.000170849
ENSMUSG00000032740	57.41681522	0.921464587	0.385959217	2.387466202	0.016964963	0.065455991
ENSMUSG00000104044	83.99861616	0.922341202	0.280753271	3.285237605	0.001018964	0.00674901
ENSMUSG00000027690	732.9631066	0.922442057	0.22128649	4.168542139	3.07E-05	0.00032339
ENSMUSG00000021061	177.5158527	0.922975236	0.263359156	3.504625579	0.00045725	0.003433377
ENSMUSG00000098183	40.17015693	0.923664209	0.37486665	2.463980753	0.013740349	0.055672878
ENSMUSG00000105561	229.0232081	0.923728361	0.20417916	4.524106964	6.07E-06	7.64E-05
ENSMUSG00000051817	983.9419092	0.923990283	0.146646132	6.300815916	2.96E-10	8.36E-09
ENSMUSG00000032076	113.5673576	0.924063623	0.257272235	3.591773604	0.000328435	0.002581752
ENSMUSG00000027797	2358.90231	0.924072363	0.215795834	4.282160341	1.85E-05	0.000207107

ENSMUSG00000095676	69.51554384	0.924104512	0.346231844	2.669033851	0.007606978	0.034917072
ENSMUSG00000111833	114.1774072	0.924398392	0.239170636	3.865016233	0.000111082	0.001003742
ENSMUSG00000111664	28.90303188	0.924612092	0.446811091	2.06935797	0.038512508	0.124420392
ENSMUSG00000094840	3499.578157	0.92498758	0.363639028	2.543697204	0.010968612	0.046654782
ENSMUSG00000092247	214.5260684	0.925969553	0.189325679	4.890881987	1.00E-06	1.51E-05
ENSMUSG00000073664	5420.054137	0.926232945	0.119588185	7.745187729	9.54E-15	4.68E-13
ENSMUSG00000103693	81.32290393	0.926727291	0.276471493	3.351981362	0.000802354	0.005512416
ENSMUSG00000040187	316.729261	0.926733895	0.25081911	3.694829696	0.000220034	0.001823779
ENSMUSG00000035769	4834.28811	0.926736903	0.11164786	8.300534374	1.04E-16	6.02E-15
ENSMUSG00000025977	46.17014955	0.927012547	0.393750035	2.354317372	0.01855676	0.07021281
ENSMUSG00000111713	51.81732733	0.92794188	0.355156298	2.612770452	0.00898116	0.03984262
ENSMUSG00000032570	7179.553493	0.92851091	0.135276891	6.863780649	6.71E-12	2.37E-10
ENSMUSG00000023034	7098.337156	0.929421218	0.435278261	2.135234633	0.032741849	0.10993315
ENSMUSG00000042476	30.96424233	0.929823149	0.46698325	1.991127409	0.046466882	0.143248263
ENSMUSG00000067377	220.7182692	0.92999824	0.22213983	4.186544313	2.83E-05	0.000300924
ENSMUSG00000113019	117.4799712	0.931537906	0.290205762	3.209922154	0.001327709	0.008378394
ENSMUSG00000109157	88.92983612	0.932696522	0.330429166	2.822682188	0.004762375	0.023855736
ENSMUSG00000107017	34.57325246	0.932826351	0.430657944	2.16604933	0.030307418	0.103047068
ENSMUSG00000086434	44.15239739	0.932867083	0.399180707	2.336954332	0.019441559	0.072807087
ENSMUSG00000049940	4603.616943	0.93297197	0.103567666	9.00833248	2.09E-19	1.61E-17
ENSMUSG00000103270	35.19899515	0.933051957	0.441406701	2.113814661	0.0345311	0.114305784
ENSMUSG00000020000	271.1536009	0.9333204	0.251287956	3.71414697	0.00020389	0.001704896
ENSMUSG00000105572	145.1493031	0.933778098	0.247180422	3.777718683	0.000158272	0.001362259
ENSMUSG00000023259	2001.060158	0.933839364	0.197934163	4.717929174	2.38E-06	3.30E-05
ENSMUSG00000109679	48.26275643	0.934255155	0.344133202	2.714806797	0.006631445	0.031219726
ENSMUSG00000034422	4737.039074	0.93432427	0.183203007	5.099939603	3.40E-07	5.68E-06
ENSMUSG00000036769	1317.471884	0.934647607	0.130482637	7.163003652	7.89E-13	3.10E-11
ENSMUSG00000114617	124.8499626	0.934773928	0.25599055	3.651595454	0.000260616	0.002104273
ENSMUSG00000047344	96.74749109	0.934878011	0.34344107	2.722091477	0.006487018	0.030655232

ENSMUSG00000032690	172.5710381	0.935523759	0.372955687	2.508404593	0.012127771	0.050362346
ENSMUSG00000017314	125.7513264	0.935570376	0.315718431	2.963306173	0.003043537	0.016652088
ENSMUSG00000092335	48.18623788	0.936397531	0.441211032	2.122334811	0.033809632	0.112401402
ENSMUSG00000044328	163.7753781	0.936496932	0.236500926	3.959802386	7.50E-05	0.000715806
ENSMUSG00000097151	201.314199	0.937677054	0.200200168	4.683697632	2.82E-06	3.84E-05
ENSMUSG00000052403	26.69821643	0.937688676	0.47079413	1.991717007	0.046402117	0.143088164
ENSMUSG00000004040	6991.565481	0.938260148	0.16005865	5.861977133	4.57E-09	1.08E-07
ENSMUSG00000020646	27.77592179	0.938394899	0.447642847	2.096302679	0.036055349	0.118297829
ENSMUSG00000020642	74.5751622	0.938432114	0.419398695	2.237565652	0.025249394	0.089749239
ENSMUSG00000104026	94.00612764	0.93883753	0.309478012	3.033616265	0.002416416	0.013750571
ENSMUSG00000103887	99.12809837	0.940095381	0.24925154	3.771673309	0.000162156	0.001391937
ENSMUSG00000103238	259.9023013	0.940300646	0.199197355	4.720447453	2.35E-06	3.26E-05
ENSMUSG00000053158	369.372187	0.940307669	0.174683642	5.382917693	7.33E-08	1.42E-06
ENSMUSG00000104125	161.9642584	0.9411976	0.214567893	4.386479211	1.15E-05	0.000135144
ENSMUSG00000021908	479.0016395	0.941301945	0.212991035	4.419443961	9.90E-06	0.000117948
ENSMUSG00000031758	167.6930472	0.942748608	0.207285374	4.548071054	5.41E-06	6.90E-05
ENSMUSG00000050103	1995.000831	0.943585484	0.150292055	6.278345733	3.42E-10	9.56E-09
ENSMUSG00000102776	48.0052272	0.943767364	0.358177615	2.634914426	0.00841585	0.037869626
ENSMUSG00000080885	62.44081522	0.943958775	0.324918249	2.90521932	0.003669958	0.019252821
ENSMUSG00000024427	172.3207101	0.943976392	0.278851258	3.385232685	0.000711179	0.004986498
ENSMUSG00000029761	140.0148973	0.944265564	0.269409179	3.504949489	0.000456694	0.003430357
ENSMUSG00000105293	75.50209043	0.946880766	0.291316307	3.250352774	0.001152619	0.007478779
ENSMUSG00000114569	34.32756361	0.946893219	0.452354463	2.093254948	0.036326402	0.11901206
ENSMUSG00000019779	4891.652465	0.947594759	0.10751762	8.813390365	1.21E-18	8.65E-17
ENSMUSG00000001700	3102.341548	0.948747726	0.138279658	6.861079491	6.83E-12	2.41E-10
ENSMUSG00000029082	152.2935742	0.949037563	0.362756092	2.616186425	0.0088918	0.039556652
ENSMUSG00000037110	16916.53725	0.949070224	0.129621236	7.321872984	2.45E-13	1.00E-11
ENSMUSG00000077457	28.069967	0.949272093	0.480633489	1.975043593	0.048263201	0.147319689
ENSMUSG00000102912	70.66697789	0.949625443	0.316193699	3.003302864	0.002670665	0.014971971

ENSMUSG00000032816	765.2884892	0.950477397	0.220384109	4.312821841	1.61E-05	0.000183865
ENSMUSG00000008206	5108.213551	0.950823321	0.162903998	5.836709551	5.32E-09	1.24E-07
ENSMUSG000000084625	35.19125496	0.951384094	0.396625372	2.398697013	0.016453523	0.063869454
ENSMUSG000000038527	119.9267989	0.952140422	0.409729912	2.323824533	0.0201349	0.074863023
ENSMUSG000000109642	70.41685881	0.952421942	0.319690616	2.979198931	0.002890031	0.015953113
ENSMUSG000000089265	44.98472608	0.953146925	0.374817316	2.542963955	0.010991657	0.046726065
ENSMUSG000000024131	2506.916953	0.954304246	0.108591762	8.787998517	1.52E-18	1.08E-16
ENSMUSG000000054422	2439.087646	0.954956838	0.366705725	2.604150338	0.009210235	0.040665338
ENSMUSG000000064778	30.28059416	0.955474864	0.454744241	2.101125813	0.035629924	0.117108758
ENSMUSG000000085525	131.9237828	0.956551023	0.26473501	3.613239606	0.000302395	0.002405891
ENSMUSG000000065036	53.6975594	0.957776036	0.377864496	2.534707671	0.01125412	0.047578792
ENSMUSG000000108812	143.6944826	0.958183559	0.271135481	3.533965953	0.000409374	0.003126522
ENSMUSG000000039683	39.16654689	0.958555067	0.391352022	2.449342311	0.014311736	0.057486676
ENSMUSG000000059422	46.13129265	0.958559215	0.374971153	2.556354557	0.010577528	0.045319779
ENSMUSG000000112955	40.62565803	0.959365192	0.406356085	2.360897811	0.018230753	0.06929675
ENSMUSG000000102662	617.3845362	0.960205663	0.138529362	6.931423396	4.17E-12	1.51E-10
ENSMUSG000000027007	6685.436702	0.961114679	0.110965129	8.661411773	4.66E-18	3.21E-16
ENSMUSG000000006241	138.5557669	0.962422595	0.236094232	4.076434172	4.57E-05	0.000464417
ENSMUSG000000065738	106.6899662	0.962906012	0.255355611	3.770843364	0.000162697	0.0013955
ENSMUSG000000104266	158.4204198	0.963043503	0.24380153	3.950112635	7.81E-05	0.000740344
ENSMUSG000000105201	349.8362583	0.963492168	0.188055235	5.123453058	3.00E-07	5.08E-06
ENSMUSG000000102252	398.6418868	0.963610536	0.182087603	5.292016164	1.21E-07	2.23E-06
ENSMUSG000000093402	58.07007666	0.965267447	0.359086013	2.688123212	0.007185488	0.033321598
ENSMUSG000000079547	2826.672103	0.966302694	0.378736648	2.551384188	0.010729598	0.045856795
ENSMUSG000000058258	2254.485404	0.966367595	0.130954126	7.379436039	1.59E-13	6.65E-12
ENSMUSG000000029269	1422.052978	0.966840245	0.199721692	4.840937575	1.29E-06	1.90E-05
ENSMUSG000000073889	789.3410128	0.966947229	0.125573464	7.700251283	1.36E-14	6.52E-13
ENSMUSG000000000078	10932.00804	0.967470737	0.173114947	5.588603158	2.29E-08	4.80E-07
ENSMUSG000000106732	49.05436442	0.967605417	0.373147081	2.593093892	0.00951168	0.041714843



ENSMUSG00000026103	15106.53951	0.968147098	0.101873286	9.503444315	2.03E-21	1.86E-19
ENSMUSG00000102143	155.1665524	0.968645854	0.216352987	4.477154988	7.56E-06	9.29E-05
ENSMUSG00000081824	27.75278602	0.969099284	0.442018972	2.192438212	0.02834788	0.098135063
ENSMUSG00000029664	225.3553036	0.970148373	0.197643199	4.908584643	9.17E-07	1.39E-05
ENSMUSG00000096960	71.6137905	0.970824085	0.315108197	3.080922981	0.0020636	0.012082003
ENSMUSG00000093989	54.62142631	0.970867364	0.369379641	2.628372701	0.008579446	0.038473804
ENSMUSG00000010651	155.3080708	0.970971869	0.378675557	2.564126076	0.010343596	0.044557185
ENSMUSG00000112391	48.22361304	0.971515069	0.417247893	2.328388196	0.0198915	0.074143463
ENSMUSG00000047728	411.5866331	0.972314939	0.162492996	5.98373444	2.18E-09	5.43E-08
ENSMUSG00000020042	122.63854	0.972817736	0.270110667	3.601552456	0.000316323	0.002496217
ENSMUSG00000110972	56.36502879	0.973117566	0.346879798	2.805345172	0.005026272	0.024925705
ENSMUSG00000063364	461.5126181	0.973707119	0.155002264	6.281889658	3.34E-10	9.38E-09
ENSMUSG00000035901	1089.196113	0.974036858	0.143789471	6.774048568	1.25E-11	4.25E-10
ENSMUSG00000018171	8440.301617	0.974052176	0.128273262	7.593571424	3.11E-14	1.42E-12
ENSMUSG00000029605	165.0672162	0.97467229	0.20223777	4.819437479	1.44E-06	2.09E-05
ENSMUSG00000065915	22.6215341	0.975195882	0.496025338	1.966020298	0.049296266	0.149600787
ENSMUSG00000064346	195.9489005	0.975375054	0.25852071	3.772908769	0.000161355	0.001385593
ENSMUSG00000092243	58.76901359	0.975416912	0.342578029	2.847283912	0.004409402	0.022364448
ENSMUSG00000046460	675.9279643	0.976130891	0.200352516	4.872067055	1.10E-06	1.65E-05
ENSMUSG00000048706	2845.185686	0.976481524	0.119104474	8.198529319	2.43E-16	1.36E-14
ENSMUSG00000085206	38.81045462	0.977640348	0.379599868	2.575449648	0.010010985	0.043409483
ENSMUSG00000097786	56.47925606	0.97889406	0.371242351	2.636806003	0.008369068	0.037697149
ENSMUSG00000103572	152.0949776	0.981378565	0.214201494	4.581567321	4.62E-06	6.01E-05
ENSMUSG00000024777	1289.753243	0.981396976	0.119274574	8.228048454	1.90E-16	1.08E-14
ENSMUSG00000034557	5598.342137	0.981755547	0.117567125	8.350595825	6.79E-17	4.12E-15
ENSMUSG00000027803	1430.678294	0.982902471	0.117016333	8.399703229	4.48E-17	2.77E-15
ENSMUSG00000019564	374.1443129	0.983940816	0.167436986	5.876484272	4.19E-09	9.98E-08
ENSMUSG00000040699	325.8863378	0.984382272	0.161133045	6.109127221	1.00E-09	2.61E-08
ENSMUSG00000001270	15224.08565	0.987408203	0.117774662	8.383876377	5.12E-17	3.15E-15

ENSMUSG00000041660	67.39521294	0.987692184	0.363485842	2.717278283	0.006582124	0.031026833
ENSMUSG00000103821	43.17199685	0.988249809	0.446640495	2.212629216	0.026923219	0.09446424
ENSMUSG00000105950	125.8583566	0.988693526	0.264819252	3.733465447	0.000188863	0.001592979
ENSMUSG00000086706	599.9306758	0.988706464	0.190645988	5.186085879	2.15E-07	3.76E-06
ENSMUSG00000036594	8441.543769	0.990137164	0.483956836	2.045920402	0.040764203	0.129850376
ENSMUSG00000019429	99.14907992	0.990301087	0.28957763	3.419812115	0.000626644	0.004480535
ENSMUSG00000113680	165.1479113	0.991886332	0.221893602	4.470098844	7.82E-06	9.57E-05
ENSMUSG00000026062	3317.730811	0.992226098	0.128754149	7.706362145	1.29E-14	6.25E-13
ENSMUSG00000102939	67.37662702	0.992318404	0.337866198	2.937015929	0.003313871	0.017786434
ENSMUSG00000043424	94.15889905	0.992735153	0.484848189	2.047517504	0.0406073	0.129498555
ENSMUSG00000034947	932.7073077	0.992764843	0.12443411	7.97823717	1.48E-15	7.92E-14
ENSMUSG00000026288	620.3705443	0.994269956	0.219802132	4.5234773	6.08E-06	7.66E-05
ENSMUSG00000112139	29.71759708	0.994854734	0.466350912	2.13327498	0.032902175	0.110276181
ENSMUSG00000073802	358.0725673	0.996408147	0.282365757	3.52878535	0.000417472	0.003180743
ENSMUSG00000110344	571.006696	0.997299579	0.151118888	6.599436976	4.13E-11	1.32E-09
ENSMUSG00000114253	50.16501295	0.997749842	0.38135925	2.616299045	0.008888867	0.039556652
ENSMUSG00000113869	23.9077887	0.998232751	0.4780162	2.088282262	0.036772381	0.119969212
ENSMUSG00000102874	88.45000633	0.998356361	0.29832108	3.346583353	0.000818141	0.005613922
ENSMUSG00000038700	32.83106691	0.99882782	0.443397782	2.252667607	0.024280115	0.086913458
ENSMUSG00000030364	1278.090902	0.998872244	0.417178323	2.394353183	0.016649708	0.064477676
ENSMUSG00000079494	26.68621349	0.99966254	0.486795467	2.05355762	0.040018527	0.128097198
ENSMUSG00000109652	91.55465316	1.000158587	0.326891846	3.059600901	0.002216321	0.012817992
ENSMUSG00000102411	312.299302	1.000390779	0.177201137	5.645509945	1.65E-08	3.54E-07
ENSMUSG00000029484	123.3325301	1.000397345	0.333970367	2.995467394	0.002740246	0.015298419
ENSMUSG00000022219	1998.478097	1.001009557	0.162158009	6.173050387	6.70E-10	1.80E-08
ENSMUSG00000055447	5535.679713	1.001329429	0.106846713	9.371644713	7.14E-21	6.17E-19
ENSMUSG00000029641	301.5676663	1.001660592	0.199989157	5.008574494	5.48E-07	8.70E-06
ENSMUSG00000029798	153.4176239	1.00183451	0.291861673	3.432566189	0.000597898	0.004317915
ENSMUSG00000103659	30.06012173	1.002820884	0.452447317	2.216436804	0.026661601	0.093713302

ENSMUSG00000031886	5345.978019	1.003279674	0.171465397	5.85120785	4.88E-09	1.15E-07
ENSMUSG00000113379	33.43620723	1.004754612	0.409141019	2.455766023	0.014058466	0.056673508
ENSMUSG00000055737	2436.758918	1.005319984	0.178200673	5.64150498	1.69E-08	3.61E-07
ENSMUSG00000038984	293.7716167	1.006812262	0.175109121	5.749627745	8.94E-09	2.02E-07
ENSMUSG00000053835	27.35630179	1.007539968	0.452315156	2.227517596	0.025912701	0.091537961
ENSMUSG00000113540	36.49286458	1.008340578	0.434206708	2.322259325	0.020218976	0.075125523
ENSMUSG00000114859	54.37143702	1.010767424	0.376205915	2.686739847	0.007215313	0.033417938
ENSMUSG00000060002	3874.883828	1.011559338	0.128051121	7.899652331	2.80E-15	1.44E-13
ENSMUSG00000037542	40.99862816	1.012202437	0.41587917	2.433885872	0.014937704	0.059412474
ENSMUSG00000073413	159.9874513	1.013083368	0.25804086	3.926057944	8.63E-05	0.000808768
ENSMUSG00000074170	171.4625606	1.013116596	0.210737734	4.807476	1.53E-06	2.21E-05
ENSMUSG00000034612	1608.313899	1.013281368	0.153389799	6.605924085	3.95E-11	1.27E-09
ENSMUSG00000030878	2103.397419	1.013371399	0.131928421	7.681221307	1.58E-14	7.51E-13
ENSMUSG00000025959	1892.477161	1.015300059	0.123026186	8.252715075	1.55E-16	8.88E-15
ENSMUSG00000091534	26.26532582	1.015468228	0.466509839	2.176734858	0.029500356	0.10102694
ENSMUSG00000022098	1402.520224	1.016726387	0.176882882	5.748020256	9.03E-09	2.04E-07
ENSMUSG00000089663	34.0015347	1.01731634	0.422333913	2.408796235	0.016005231	0.062619765
ENSMUSG00000030650	6123.333331	1.017420687	0.157612476	6.455204024	1.08E-10	3.27E-09
ENSMUSG00000057335	179.6355257	1.017740502	0.221629646	4.592077467	4.39E-06	5.75E-05
ENSMUSG00000109279	319.1097616	1.018628268	0.245353339	4.151678855	3.30E-05	0.00034507
ENSMUSG00000040666	106.3364427	1.018790896	0.283484579	3.593814172	0.000325872	0.002566129
ENSMUSG00000037259	33.69091576	1.019114219	0.411887235	2.474255406	0.013351421	0.054264633
ENSMUSG00000036216	172.3845813	1.020050418	0.26928604	3.787981056	0.000151876	0.001313298
ENSMUSG00000107091	54.82117622	1.020156608	0.383671403	2.658933138	0.007838852	0.035756644
ENSMUSG00000047230	16268.24337	1.020198278	0.119148801	8.562388146	1.11E-17	7.27E-16
ENSMUSG00000096687	385.3722209	1.022401903	0.153012901	6.681801982	2.36E-11	7.81E-10
ENSMUSG00000031351	31.64243555	1.023030107	0.475845248	2.149921875	0.031561395	0.10654718
ENSMUSG00000094551	40.7280436	1.02362781	0.442622814	2.312641322	0.020742368	0.076721862
ENSMUSG00000013698	437.9128371	1.023769695	0.174929405	5.852473435	4.84E-09	1.14E-07

ENSMUSG00000105517	135.7259768	1.024060026	0.250300806	4.091317341	4.29E-05	0.000437383
ENSMUSG00000000159	2926.680146	1.024383368	0.107420026	9.536242057	1.48E-21	1.38E-19
ENSMUSG00000106062	230.9910763	1.024937174	0.226493018	4.525248438	6.03E-06	7.61E-05
ENSMUSG00000074207	16884.29278	1.025654055	0.177893373	5.765555149	8.14E-09	1.84E-07
ENSMUSG00000087611	232.6149851	1.026790672	0.209981254	4.889915902	1.01E-06	1.52E-05
ENSMUSG00000021919	96.45213061	1.026796008	0.347048629	2.95865168	0.003089881	0.016821512
ENSMUSG00000032036	28.73783815	1.027648765	0.515431009	1.993765889	0.046177645	0.142612887
ENSMUSG00000017740	96.14091159	1.027983044	0.316992275	3.242927746	0.001183082	0.007626489
ENSMUSG00000026825	9410.930436	1.029016862	0.132746046	7.751770333	9.06E-15	4.45E-13
ENSMUSG00000026531	57.6027417	1.03055601	0.450179445	2.289211605	0.022067061	0.080582531
ENSMUSG00000055799	36.00991926	1.030952969	0.43296235	2.381160787	0.017258177	0.066380581
ENSMUSG00000053783	84.26134167	1.031950277	0.27761982	3.717134738	0.000201495	0.001689301
ENSMUSG00000082361	586.4896169	1.031966411	0.151188265	6.825704436	8.75E-12	3.03E-10
ENSMUSG00000028358	2422.672062	1.032302182	0.12742287	8.101388551	5.43E-16	2.96E-14
ENSMUSG00000103506	45.72984809	1.033498339	0.416176867	2.483315195	0.013016586	0.053253141
ENSMUSG00000027801	2103.736652	1.034088503	0.181479239	5.698109098	1.21E-08	2.65E-07
ENSMUSG00000114310	239.5822036	1.03592824	0.231401904	4.476748983	7.58E-06	9.30E-05
ENSMUSG00000104107	102.9561565	1.036430795	0.312810742	3.313283901	0.000922073	0.0062256
ENSMUSG00000023984	168.6314376	1.036806375	0.212629971	4.87610646	1.08E-06	1.61E-05
ENSMUSG00000085550	69.40477098	1.037208026	0.313224469	3.311388886	0.000928341	0.006258444
ENSMUSG00000028525	1337.899287	1.037337474	0.38961926	2.662438898	0.007757665	0.035480659
ENSMUSG00000034923	191.8620631	1.037444608	0.271037107	3.827684777	0.000129354	0.001147466
ENSMUSG00000105272	117.8312281	1.03882738	0.246937264	4.206847378	2.59E-05	0.000277645
ENSMUSG00000104591	51.00380848	1.039390527	0.372084659	2.793424837	0.005215315	0.025703146
ENSMUSG00000019943	11610.4624	1.039803302	0.141575231	7.344528402	2.06E-13	8.54E-12
ENSMUSG00000091509	260.3978946	1.04008766	0.2174561	4.782977612	1.73E-06	2.48E-05
ENSMUSG00000031278	543.4677315	1.040621286	0.136154621	7.642937676	2.12E-14	9.97E-13
ENSMUSG00000052631	1551.597807	1.040770518	0.171794467	6.058230721	1.38E-09	3.52E-08
ENSMUSG00000021665	2002.848372	1.042901556	0.138237748	7.544260337	4.55E-14	2.05E-12

ENSMUSG00000033220	343.779237	1.043523939	0.231320559	4.511159516	6.45E-06	8.08E-05
ENSMUSG00000053702	366.5125765	1.0437446	0.247485423	4.217398295	2.47E-05	0.000266123
ENSMUSG00000108024	31.35006926	1.044526023	0.427280468	2.444591084	0.014501646	0.058079031
ENSMUSG00000067818	75.64156299	1.044722964	0.353264339	2.957340576	0.003103052	0.016886568
ENSMUSG00000063727	118.2597273	1.045855921	0.250440785	4.176060706	2.97E-05	0.000314078
ENSMUSG00000087541	87.49982855	1.047999515	0.271812217	3.855601214	0.000115446	0.001036871
ENSMUSG00000019944	112.5062404	1.048867933	0.30709251	3.415478715	0.0006367	0.00454515
ENSMUSG00000031340	979.3300224	1.049805749	0.151926827	6.909943211	4.85E-12	1.74E-10
ENSMUSG00000102554	22.3493908	1.049994325	0.516316805	2.033624153	0.041989505	0.132748504
ENSMUSG00000038633	1879.659146	1.050050756	0.133457107	7.868076738	3.60E-15	1.84E-13
ENSMUSG00000077345	41.50882996	1.050217612	0.383622454	2.737633321	0.006188303	0.02946314
ENSMUSG00000040938	477.6041813	1.050573556	0.18200711	5.772156671	7.83E-09	1.78E-07
ENSMUSG00000044313	162.0601401	1.050869847	0.280114806	3.751568367	0.000175732	0.001495229
ENSMUSG00000039062	31714.96397	1.052048335	0.159486495	6.596472839	4.21E-11	1.34E-09
ENSMUSG00000104761	59.28873242	1.053116428	0.356317908	2.955552907	0.003121092	0.016959348
ENSMUSG00000065408	31.67576007	1.05404343	0.477576509	2.207067159	0.027309368	0.095324184
ENSMUSG00000021765	38.90129615	1.054191966	0.421251326	2.502524978	0.012331092	0.050972325
ENSMUSG00000064542	21.63580347	1.054804481	0.537684892	1.961752128	0.04979135	0.150664435
ENSMUSG00000026166	799.8705615	1.054904757	0.416484553	2.53287847	0.011313017	0.047782498
ENSMUSG00000104339	562.3550396	1.055276595	0.158090993	6.675121542	2.47E-11	8.10E-10
ENSMUSG00000110409	137.2542421	1.055906277	0.243546845	4.335536661	1.45E-05	0.000167754
ENSMUSG00000073274	102.8924824	1.056625718	0.28118606	3.757745732	0.000171451	0.001463271
ENSMUSG00000045038	2253.178625	1.057147021	0.150609765	7.019113431	2.23E-12	8.31E-11
ENSMUSG00000002227	3662.881129	1.057321022	0.113371828	9.326135412	1.10E-20	9.31E-19
ENSMUSG00000026659	1129.260387	1.057722311	0.144175096	7.336373216	2.19E-13	9.05E-12
ENSMUSG00000096768	16363.57383	1.05772521	0.194283643	5.444231922	5.20E-08	1.03E-06
ENSMUSG00000047250	223.5436988	1.05856336	0.234175412	4.52038646	6.17E-06	7.76E-05
ENSMUSG00000110676	27.31571778	1.058966914	0.486943629	2.174721778	0.029650972	0.101387048
ENSMUSG00000073678	2915.028218	1.059549202	0.144461217	7.334488972	2.23E-13	9.16E-12

ENSMUSG00000042096	428.4551937	1.059826543	0.230991096	4.58817054	4.47E-06	5.85E-05
ENSMUSG00000018427	1134.640345	1.059963305	0.179937273	5.890737855	3.84E-09	9.25E-08
ENSMUSG000000112660	35.62016316	1.060541989	0.446060497	2.377574335	0.01742693	0.066891216
ENSMUSG000000037188	339.4914778	1.060571564	0.175792435	6.033089901	1.61E-09	4.07E-08
ENSMUSG000000115151	24.63082022	1.061426778	0.492128965	2.156806149	0.031020772	0.105087989
ENSMUSG000000079507	545.9364494	1.061917364	0.231865338	4.57988837	4.65E-06	6.05E-05
ENSMUSG000000112411	97.40323367	1.062104272	0.315573773	3.365629091	0.000763693	0.005287526
ENSMUSG000000029727	2684.96232	1.062197756	0.2116807	5.017924431	5.22E-07	8.33E-06
ENSMUSG000000003623	4225.771018	1.063898636	0.114979803	9.252917501	2.18E-20	1.82E-18
ENSMUSG000000106224	110.4109691	1.063970443	0.23873639	4.456674762	8.32E-06	0.000100998
ENSMUSG000000022180	5333.570055	1.064967668	0.141914133	7.50431014	6.18E-14	2.74E-12
ENSMUSG000000028544	1382.055487	1.066666363	0.155130532	6.875927976	6.16E-12	2.18E-10
ENSMUSG000000108388	36.45316447	1.067261766	0.400031026	2.667947477	0.007631619	0.035006476
ENSMUSG000000104262	392.7418956	1.067463227	0.190049648	5.61675983	1.95E-08	4.12E-07
ENSMUSG000000087181	31.87841283	1.067773634	0.441060638	2.42092253	0.015481176	0.061040613
ENSMUSG000000092014	26.93937183	1.069688353	0.46908408	2.280376586	0.022585363	0.082108206
ENSMUSG000000098836	61.22539779	1.070985791	0.353087324	3.033203742	0.002419722	0.01376236
ENSMUSG000000062157	797.5991837	1.071822222	0.126093081	8.500246083	1.89E-17	1.21E-15
ENSMUSG000000024539	4614.59222	1.072683104	0.103188541	10.39537041	2.60E-25	3.15E-23
ENSMUSG000000113792	73.86571871	1.073189433	0.310134893	3.460395645	0.000539382	0.003942564
ENSMUSG000000044788	35.46411255	1.073782592	0.518229309	2.072022121	0.038263378	0.123758027
ENSMUSG000000059040	43.18823096	1.073905748	0.427275245	2.513381623	0.01195799	0.04984582
ENSMUSG000000026149	9179.205278	1.074698783	0.100458624	10.69792462	1.04E-26	1.38E-24
ENSMUSG000000039114	1636.750769	1.074906047	0.215096535	4.997319205	5.81E-07	9.16E-06
ENSMUSG000000073888	156.6786465	1.075024421	0.251498233	4.274481013	1.92E-05	0.000213198
ENSMUSG000000098374	72.34405197	1.076326378	0.300248456	3.584785718	0.000337355	0.002642555
ENSMUSG000000022043	1581.685872	1.078847974	0.173679357	6.211722542	5.24E-10	1.42E-08
ENSMUSG000000106607	50.0039562	1.079476851	0.371743093	2.903824905	0.003686343	0.019325135
ENSMUSG000000114605	66.90839838	1.079587347	0.358954905	3.007584882	0.002633326	0.014807311

ENSMUSG00000115017	45.01968842	1.079663844	0.3767161	2.86598806	0.004157099	0.021371017
ENSMUSG00000023959	1924.184745	1.07966422	0.209527455	5.152853216	2.57E-07	4.41E-06
ENSMUSG00000075270	1004.811048	1.080186101	0.199587294	5.412098526	6.23E-08	1.22E-06
ENSMUSG00000103625	21.1091905	1.081691683	0.538590703	2.00837422	0.04460354	0.138944483
ENSMUSG00000102163	711.8992418	1.081823419	0.158183002	6.839062396	7.97E-12	2.78E-10
ENSMUSG00000051323	954.0913139	1.08198929	0.167921429	6.443425938	1.17E-10	3.51E-09
ENSMUSG00000065767	81.35969529	1.082522665	0.351743864	3.077587915	0.002086833	0.012187314
ENSMUSG00000023915	1141.468602	1.083029925	0.172480623	6.279139688	3.40E-10	9.53E-09
ENSMUSG00000101031	1247.468746	1.083787975	0.146920649	7.376689283	1.62E-13	6.78E-12
ENSMUSG00000093096	26.53729012	1.084108291	0.479756009	2.259707582	0.023839405	0.085743075
ENSMUSG00000064844	52.28033334	1.084630748	0.341168118	3.179167952	0.001476985	0.009158675
ENSMUSG00000026094	2054.254764	1.086026042	0.156416084	6.943186516	3.83E-12	1.39E-10
ENSMUSG00000054545	199.9856945	1.087934762	0.214653168	5.068337777	4.01E-07	6.57E-06
ENSMUSG00000048450	246.6893327	1.088249241	0.262605937	4.144038984	3.41E-05	0.000355443
ENSMUSG00000028655	955.1390299	1.088945926	0.181593558	5.99661098	2.01E-09	5.04E-08
ENSMUSG00000102808	148.19031	1.089411869	0.248153885	4.390065744	1.13E-05	0.000133144
ENSMUSG00000096775	18.86030333	1.090666452	0.534030108	2.042331388	0.041118671	0.13083
ENSMUSG00000092563	31.76951499	1.091073073	0.436992374	2.496778294	0.012532729	0.051585895
ENSMUSG00000024774	49.26980687	1.091079252	0.509172393	2.142848409	0.032125273	0.108156055
ENSMUSG00000025658	31.23384101	1.091483037	0.547739257	1.992705511	0.046293704	0.142872389
ENSMUSG00000035811	4764.524328	1.092734264	0.199196237	5.485717406	4.12E-08	8.26E-07
ENSMUSG00000065259	134.3225448	1.092911209	0.255620161	4.275528212	1.91E-05	0.000212304
ENSMUSG00000032387	22.54269499	1.093750049	0.514047581	2.127721419	0.033360188	0.111288788
ENSMUSG00000020600	142.3082757	1.0948181	0.2734238	4.004106806	6.23E-05	0.000608098
ENSMUSG00000111067	49.69975805	1.094935827	0.505363785	2.16662899	0.030263155	0.102927958
ENSMUSG00000022148	1029.678207	1.095158465	0.206280935	5.309062927	1.10E-07	2.05E-06
ENSMUSG00000039634	176.575981	1.095347702	0.220715066	4.962722865	6.95E-07	1.08E-05
ENSMUSG00000114147	87.89230786	1.096429634	0.306130066	3.58158102	0.000341521	0.002667199
ENSMUSG00000025915	799.2081779	1.09672667	0.159745484	6.865462735	6.63E-12	2.34E-10

ENSMUSG00000064343	237.3744581	1.096727386	0.335009834	3.273716988	0.001061429	0.006994953
ENSMUSG00000105707	46.18590302	1.096833405	0.391655675	2.800504309	0.005102283	0.02524309
ENSMUSG00000103076	86.55321998	1.098357727	0.273148553	4.021100294	5.79E-05	0.000570092
ENSMUSG00000013089	673.5410963	1.09849766	0.176419498	6.226622742	4.77E-10	1.30E-08
ENSMUSG00000105302	50.32748596	1.0994787	0.421674457	2.607411194	0.009122973	0.040367346
ENSMUSG00000102423	160.4511481	1.10172445	0.219449203	5.02040762	5.16E-07	8.25E-06
ENSMUSG00000030107	41.79230528	1.102589674	0.387612044	2.844570212	0.004447138	0.022519444
ENSMUSG00000063354	4305.017035	1.103409593	0.115315817	9.568588455	1.08E-21	1.03E-19
ENSMUSG00000064036	466.0367729	1.104098169	0.167574742	6.588690851	4.44E-11	1.40E-09
ENSMUSG00000001014	34.96594464	1.10486984	0.437780097	2.523800983	0.011609363	0.048696196
ENSMUSG00000029322	21800.80294	1.105191296	0.106902552	10.33830598	4.73E-25	5.67E-23
ENSMUSG00000024781	450.1429355	1.105359984	0.168706482	6.551971035	5.68E-11	1.77E-09
ENSMUSG00000029156	225.5980396	1.105389287	0.20579507	5.371310837	7.82E-08	1.51E-06
ENSMUSG00000024066	6303.215395	1.106820989	0.367255127	3.013765928	0.002580268	0.014550548
ENSMUSG00000105691	22.73576748	1.106937836	0.556564323	1.988876738	0.04671481	0.14385349
ENSMUSG00000034919	744.2929551	1.107829998	0.167968278	6.595471557	4.24E-11	1.34E-09
ENSMUSG00000098328	27.0024994	1.107864655	0.523884945	2.114709854	0.034454684	0.114103639
ENSMUSG00000091587	36.57349744	1.108077001	0.433511183	2.55605171	0.010586739	0.045350529
ENSMUSG00000027792	3717.665396	1.109114184	0.149822481	7.402855542	1.33E-13	5.62E-12
ENSMUSG00000029925	46.67966025	1.110425531	0.388432112	2.858737723	0.004253303	0.021726013
ENSMUSG00000103867	69.41063882	1.110678059	0.318139632	3.491165344	0.000480919	0.003585566
ENSMUSG00000030278	342.8202516	1.112247262	0.218803787	5.083309002	3.71E-07	6.14E-06
ENSMUSG00000057346	66.69352108	1.112912318	0.344396433	3.231486195	0.001231483	0.007873651
ENSMUSG00000109005	490.6487068	1.113844989	0.158205043	7.040515055	1.92E-12	7.18E-11
ENSMUSG00000027698	2609.982244	1.11447236	0.171337776	6.504533837	7.79E-11	2.39E-09
ENSMUSG00000061728	218.6475121	1.115359762	0.329894261	3.380961395	0.000722327	0.005044977
ENSMUSG00000097150	51.06856612	1.116352259	0.351923917	3.172140925	0.001513196	0.009342684
ENSMUSG00000080610	89.25444447	1.117172186	0.290136133	3.850510355	0.000117872	0.00105484
ENSMUSG00000002059	130.135939	1.117326763	0.233839679	4.778174371	1.77E-06	2.53E-05



ENSMUSG00000093044	41.95483955	1.117842796	0.442223232	2.527779444	0.011478644	0.048289989
ENSMUSG00000105848	79.99601061	1.11800443	0.27552711	4.057693017	4.96E-05	0.000498527
ENSMUSG00000092212	88.45553035	1.118013142	0.334021862	3.347125649	0.000816542	0.005606435
ENSMUSG00000102496	171.3891699	1.118150614	0.227322852	4.918777872	8.71E-07	1.33E-05
ENSMUSG00000108689	44.05021711	1.120229945	0.383113926	2.924012592	0.003455508	0.018382938
ENSMUSG00000090565	46.23789054	1.120812285	0.388997332	2.881285274	0.00396057	0.020492963
ENSMUSG00000097583	379.933311	1.121175277	0.172915416	6.483952104	8.94E-11	2.72E-09
ENSMUSG00000022885	82.67588442	1.122444259	0.339402253	3.307120822	0.000942602	0.006328735
ENSMUSG00000032643	272.9033958	1.123163131	0.276080561	4.068244165	4.74E-05	0.000479079
ENSMUSG00000108122	27.27138847	1.123354011	0.512736061	2.190901123	0.028458948	0.098351621
ENSMUSG00000109812	83.86590694	1.124670006	0.344339988	3.266161482	0.001090161	0.007152596
ENSMUSG00000087657	57.45164153	1.124694889	0.436284009	2.577896199	0.009940385	0.043169098
ENSMUSG00000080002	18.73354048	1.124744249	0.545423956	2.06214677	0.039193765	0.126108808
ENSMUSG00000093465	106.3655144	1.125127373	0.262700276	4.282931834	1.84E-05	0.000206597
ENSMUSG00000031543	31.7687632	1.125153128	0.441118299	2.550683414	0.010751194	0.045931489
ENSMUSG00000101587	88.19843949	1.126321351	0.330956136	3.403234535	0.000665931	0.004726583
ENSMUSG00000106858	40.86074033	1.127070609	0.423714468	2.659976694	0.007814606	0.035675236
ENSMUSG00000028004	93.81328653	1.129490296	0.265045307	4.261498948	2.03E-05	0.000224403
ENSMUSG00000102620	34.62831129	1.129864888	0.463538016	2.437480527	0.014790011	0.058935339
ENSMUSG00000103558	56.29321661	1.13080853	0.346147073	3.266844116	0.001087535	0.007137472
ENSMUSG00000020015	1575.554728	1.130912412	0.148249056	7.628462813	2.38E-14	1.10E-12
ENSMUSG00000082769	44.60532614	1.131709757	0.41697269	2.714110022	0.006645409	0.031272266
ENSMUSG00000024349	520.3063988	1.132094323	0.262343248	4.315317166	1.59E-05	0.000182267
ENSMUSG00000102466	68.55530502	1.132757928	0.315889797	3.58592756	0.000335882	0.002632868
ENSMUSG00000114800	33.30417505	1.133568494	0.437299456	2.592201928	0.009536378	0.041798499
ENSMUSG00000085457	26.26644278	1.134640999	0.517299666	2.193392094	0.028279141	0.097957927
ENSMUSG00000031586	40.26248235	1.134661818	0.397660704	2.853341572	0.004326209	0.022024888
ENSMUSG00000002565	1602.773805	1.134751902	0.216798256	5.234137602	1.66E-07	2.97E-06
ENSMUSG00000036810	1726.104523	1.135125751	0.141603334	8.016236062	1.09E-15	5.86E-14

ENSMUSG00000102460	20.05289529	1.137186861	0.559015919	2.034265613	0.041924822	0.132638028
ENSMUSG00000029334	7854.104726	1.139256	0.117062634	9.73202091	2.20E-22	2.17E-20
ENSMUSG00000024810	146.6554846	1.139523894	0.279929268	4.070756527	4.69E-05	0.000474935
ENSMUSG00000098874	65.7185955	1.139619245	0.333087488	3.42138113	0.00062304	0.004461915
ENSMUSG00000021725	142.590239	1.139635716	0.288075987	3.956024689	7.62E-05	0.000725352
ENSMUSG00000046372	71.44652853	1.140169931	0.343293902	3.321264735	0.000896105	0.006079719
ENSMUSG00000046318	946.8302722	1.142984696	0.187930595	6.081951125	1.19E-09	3.07E-08
ENSMUSG00000055435	1752.277622	1.1450955	0.387743955	2.953225927	0.003144717	0.017059192
ENSMUSG00000113691	48.93310713	1.145424715	0.35738629	3.205004636	0.001350603	0.008499026
ENSMUSG00000104503	138.6349582	1.145583811	0.257273769	4.45278123	8.48E-06	0.000102686
ENSMUSG00000031539	156.4956789	1.145976254	0.224699875	5.100030675	3.40E-07	5.68E-06
ENSMUSG00000096929	529.0009554	1.146188414	0.169174216	6.775195664	1.24E-11	4.22E-10
ENSMUSG00000112317	64.57400716	1.146796923	0.408326735	2.808527642	0.004976861	0.024746706
ENSMUSG00000096957	146.7952111	1.148148733	0.253725729	4.525156896	6.04E-06	7.61E-05
ENSMUSG00000087677	28.61318842	1.148721521	0.444071065	2.5867966	0.009687276	0.04232679
ENSMUSG00000054728	44.7566445	1.149217371	0.395330247	2.90698063	0.003649358	0.019167294
ENSMUSG00000082855	22.86296727	1.149317125	0.509639882	2.255155386	0.024123577	0.086561528
ENSMUSG00000003949	55.19685267	1.150117433	0.353080581	3.257379459	0.00112446	0.007325908
ENSMUSG00000055912	105.2186916	1.150157813	0.312234275	3.683637274	0.000229929	0.001891671
ENSMUSG00000038244	3292.152604	1.150570186	0.142796981	8.05738451	7.79E-16	4.20E-14
ENSMUSG00000031445	138.9328883	1.151940521	0.357732578	3.220116345	0.001281386	0.008134411
ENSMUSG00000089093	42.69366872	1.152302514	0.500859269	2.300651269	0.021411351	0.078734918
ENSMUSG00000080006	21.09696012	1.152562889	0.531210295	2.169692305	0.030030163	0.102376965
ENSMUSG00000057697	47.73052665	1.15287796	0.367399979	3.137936926	0.001701415	0.010305066
ENSMUSG00000115624	155.877384	1.153327178	0.234890758	4.910057709	9.10E-07	1.38E-05
ENSMUSG00000026158	65.27589609	1.153510117	0.34526465	3.340944745	0.000834938	0.005716905
ENSMUSG00000033917	896.5301146	1.154925287	0.431423867	2.677008332	0.007428279	0.0342637
ENSMUSG00000056025	4843.673808	1.156003609	0.140048627	8.254301654	1.53E-16	8.78E-15
ENSMUSG00000031292	1504.042454	1.156743915	0.127244998	9.090682815	9.84E-20	7.81E-18

ENSMUSG00000104469	141.8815076	1.156791348	0.221709035	5.217610315	1.81E-07	3.22E-06
ENSMUSG00000025810	663.3376253	1.156842948	0.162242311	7.130340652	1.00E-12	3.91E-11
ENSMUSG00000039013	419.1708352	1.157039337	0.232597017	4.974437546	6.54E-07	1.02E-05
ENSMUSG00000092713	76.29204102	1.157855879	0.298187075	3.882984798	0.000103182	0.0009419
ENSMUSG00000039270	1270.404643	1.157980825	0.129374554	8.950607308	3.54E-19	2.62E-17
ENSMUSG00000074149	26.46089208	1.158216883	0.517544551	2.237907599	0.025227081	0.089705023
ENSMUSG00000038886	2970.959303	1.159380608	0.128730715	9.006246938	2.13E-19	1.63E-17
ENSMUSG00000002289	631.2668617	1.160484697	0.183284971	6.331586754	2.43E-10	6.92E-09
ENSMUSG00000074635	76.44688741	1.161027867	0.313429702	3.704268808	0.000212001	0.00176412
ENSMUSG00000070056	210.4098759	1.161112099	0.2090785	5.553474412	2.80E-08	5.73E-07
ENSMUSG00000075543	506.0260959	1.162156465	0.154034291	7.544790552	4.53E-14	2.05E-12
ENSMUSG00000077625	20.25919701	1.163249455	0.563145351	2.065629156	0.038863509	0.12533552
ENSMUSG00000040584	3659.920824	1.164103684	0.181899842	6.399695953	1.56E-10	4.59E-09
ENSMUSG00000064390	80.40430981	1.16457094	0.334904979	3.477317483	0.000506458	0.003751084
ENSMUSG00000002458	337.9424987	1.164719475	0.194077025	6.0013259	1.96E-09	4.90E-08
ENSMUSG00000062064	77.05889985	1.167808335	0.377601415	3.092701162	0.001983438	0.011707952
ENSMUSG00000115276	110.1984446	1.168099537	0.272751316	4.282654083	1.85E-05	0.000206751
ENSMUSG00000061313	3515.13186	1.170645771	0.127138433	9.207646704	3.33E-20	2.74E-18
ENSMUSG00000072963	21.86041403	1.172130131	0.560032624	2.09296759	0.036352048	0.119078587
ENSMUSG00000017868	35.7669751	1.173604596	0.419411648	2.798216503	0.005138566	0.025403492
ENSMUSG00000023905	1461.567911	1.173702236	0.142383	8.243275085	1.68E-16	9.56E-15
ENSMUSG00000094655	160.5979428	1.175701789	0.277060261	4.243487622	2.20E-05	0.000240462
ENSMUSG00000019966	6047.053144	1.175974267	0.115622902	10.17077283	2.68E-24	3.00E-22
ENSMUSG00000006711	533.7906358	1.177086821	0.141368938	8.326346945	8.34E-17	4.95E-15
ENSMUSG00000107456	255.1890549	1.177545896	0.275414708	4.275537443	1.91E-05	0.000212304
ENSMUSG00000074445	70.27562986	1.17835665	0.445721503	2.643706087	0.008200383	0.037102199
ENSMUSG00000105264	536.4407198	1.17848224	0.183946047	6.406673365	1.49E-10	4.39E-09
ENSMUSG00000055210	50.04927569	1.179129009	0.44161675	2.670027819	0.007584496	0.034837359
ENSMUSG00000104239	44.04828154	1.179384833	0.359776973	3.278099829	0.001045084	0.006907395

ENSMUSG00000064952	45.21502383	1.181824423	0.369281062	3.200338564	0.001372662	0.008619229
ENSMUSG00000102225	40.70073651	1.182068072	0.403707316	2.92803233	0.003411146	0.018216466
ENSMUSG00000109498	794.624282	1.184414199	0.143252098	8.268040887	1.36E-16	7.87E-15
ENSMUSG00000097893	55.01115258	1.184512218	0.350752325	3.377061626	0.000732646	0.005107454
ENSMUSG00000043487	321.4770356	1.185217514	0.206840638	5.73009987	1.00E-08	2.23E-07
ENSMUSG00000022847	187.4486569	1.185943592	0.278114082	4.26423424	2.01E-05	0.000222002
ENSMUSG00000037921	681.0402541	1.188028702	0.196272952	6.052941541	1.42E-09	3.62E-08
ENSMUSG00000110397	59.39670314	1.188626165	0.342399332	3.471461692	0.000517633	0.003821164
ENSMUSG00000103928	108.7175164	1.188699589	0.292026095	4.070525237	4.69E-05	0.000475058
ENSMUSG00000102802	11665.73899	1.188717342	0.139842478	8.500402417	1.89E-17	1.21E-15
ENSMUSG00000106815	292.3661638	1.189112288	0.195977957	6.067581821	1.30E-09	3.33E-08
ENSMUSG00000105315	147.5477849	1.190208474	0.271286016	4.387282809	1.15E-05	0.000134716
ENSMUSG00000104525	99.80816306	1.190307129	0.278096327	4.280197227	1.87E-05	0.000208524
ENSMUSG00000097401	42.66632508	1.19046861	0.462162501	2.575865866	0.009998943	0.043391014
ENSMUSG00000097312	62.71208255	1.190907971	0.508623561	2.341432964	0.019209875	0.072206208
ENSMUSG00000108954	126.8504073	1.193941212	0.28613747	4.172613998	3.01E-05	0.000318567
ENSMUSG00000028128	323.4335158	1.194007145	0.171621935	6.957194293	3.47E-12	1.27E-10
ENSMUSG00000025584	343.4756743	1.194417875	0.24430121	4.889119777	1.01E-06	1.52E-05
ENSMUSG00000027955	24.53888158	1.198823722	0.550639051	2.177149843	0.029469389	0.100953317
ENSMUSG00000022376	346.704493	1.199297945	0.254569676	4.711079362	2.46E-06	3.40E-05
ENSMUSG00000115210	62.13071504	1.203309791	0.329964463	3.646786018	0.000265541	0.00214171
ENSMUSG00000094958	66.45086077	1.20354446	0.378671755	3.178331746	0.001481252	0.009173394
ENSMUSG00000065728	15.29084298	1.203711941	0.613077083	1.963394123	0.049600396	0.15024972
ENSMUSG00000103233	522.1598286	1.204194071	0.172274437	6.989975361	2.75E-12	1.02E-10
ENSMUSG00000065847	70.9980155	1.205319647	0.30320505	3.975262443	7.03E-05	0.00067665
ENSMUSG00000090925	254.2166309	1.206387904	0.22545735	5.35084753	8.75E-08	1.67E-06
ENSMUSG00000030760	963.0704148	1.20679762	0.187912471	6.422126291	1.34E-10	4.00E-09
ENSMUSG00000089960	1801.803817	1.208438983	0.206426943	5.85407585	4.80E-09	1.13E-07
ENSMUSG00000021822	149.9754519	1.209219371	0.350713714	3.447881628	0.000565002	0.004104267

ENSMUSG00000104406	27.47480202	1.209239068	0.469821957	2.573824086	0.01005814	0.043555509
ENSMUSG00000105824	172.765859	1.209472888	0.213696131	5.659779059	1.52E-08	3.28E-07
ENSMUSG00000040254	20.55836347	1.209691061	0.579665769	2.086876828	0.03689927	0.120235333
ENSMUSG00000020447	4060.162346	1.209746811	0.174417404	6.935929442	4.04E-12	1.46E-10
ENSMUSG00000037847	1297.161021	1.210246245	0.158958914	7.613578965	2.67E-14	1.23E-12
ENSMUSG00000105565	48.96860181	1.210419301	0.395751917	3.058530479	0.002224255	0.012853874
ENSMUSG00000108190	35.69186059	1.211655094	0.414884659	2.920462514	0.003495122	0.01854061
ENSMUSG00000094050	33.01945033	1.211948816	0.456846994	2.652854966	0.007981416	0.036273396
ENSMUSG00000026938	18.89196074	1.212428382	0.547373299	2.214993652	0.0267605	0.093994598
ENSMUSG00000079550	267.8997887	1.212434308	0.1878967	6.452664191	1.10E-10	3.32E-09
ENSMUSG00000115224	34.08309405	1.214072263	0.510411396	2.378615118	0.01737781	0.066737425
ENSMUSG00000024533	225.2541839	1.214316252	0.224843137	5.400726343	6.64E-08	1.29E-06
ENSMUSG00000097742	26.04477085	1.214782249	0.522268463	2.325972819	0.020020001	0.074510353
ENSMUSG00000100394	62.24337732	1.216726113	0.339694563	3.58182393	0.000341204	0.002666147
ENSMUSG00000081245	30.74861925	1.217583902	0.478918249	2.542362717	0.011010585	0.046782919
ENSMUSG00000068246	52.46544656	1.219700918	0.379988124	3.209839573	0.001328091	0.00837843
ENSMUSG00000026532	22.12596743	1.220018657	0.511158763	2.386770502	0.016997098	0.065545959
ENSMUSG00000025059	1096.109272	1.222821867	0.205467023	5.95142641	2.66E-09	6.52E-08
ENSMUSG00000105659	63.15940587	1.224951537	0.327189112	3.743863992	0.000181212	0.001535995
ENSMUSG00000031402	1804.674215	1.225342628	0.160406676	7.63897524	2.19E-14	1.02E-12
ENSMUSG00000111368	42.63215784	1.226280261	0.379435513	3.231854215	0.001229898	0.007865773
ENSMUSG00000093622	18.03883321	1.226982353	0.581406932	2.110367603	0.034826705	0.11502819
ENSMUSG00000071551	1480.265398	1.227847509	0.200888149	6.112095301	9.83E-10	2.56E-08
ENSMUSG00000095868	45.44009987	1.22890771	0.407491449	3.015787724	0.002563126	0.014470957
ENSMUSG00000000552	112.0654966	1.229085459	0.250954322	4.897646108	9.70E-07	1.46E-05
ENSMUSG00000103509	130.5747679	1.230222625	0.245131245	5.018628395	5.20E-07	8.31E-06
ENSMUSG00000087132	54.75675084	1.230827044	0.36409321	3.380527321	0.000723469	0.005051371
ENSMUSG00000104324	118.5862578	1.230956155	0.355530365	3.462309483	0.000535561	0.003923635
ENSMUSG00000065089	76.94105059	1.232527652	0.382644443	3.221078145	0.001277093	0.008119798

ENSMUSG00000114431	86.91876045	1.232747402	0.354740482	3.475068291	0.000510723	0.003777659
ENSMUSG00000026483	395.8249534	1.23277043	0.486255015	2.535234374	0.011237211	0.047530676
ENSMUSG00000104040	60.29979614	1.235720684	0.325893296	3.791795354	0.000149562	0.001297815
ENSMUSG00000082154	49.64054342	1.235932053	0.352901163	3.502204535	0.000461425	0.003460069
ENSMUSG00000075703	6236.169157	1.236274764	0.12709617	9.727081169	2.31E-22	2.27E-20
ENSMUSG00000082665	22.90111448	1.236409732	0.530698594	2.329777668	0.019817905	0.073955673
ENSMUSG00000113894	42.48952091	1.236854198	0.400830744	3.085726874	0.002030552	0.01192499
ENSMUSG00000048905	4576.671418	1.236901502	0.215949852	5.727725633	1.02E-08	2.26E-07
ENSMUSG00000108799	23.10905743	1.237610386	0.499612553	2.477140292	0.013243983	0.053965662
ENSMUSG00000065653	31.65861779	1.238844499	0.471482225	2.627552924	0.008600146	0.038543381
ENSMUSG00000106288	49.08631753	1.239022272	0.36312081	3.412148899	0.000644529	0.004592217
ENSMUSG00000042505	642.6526958	1.24074766	0.130934752	9.476075999	2.64E-21	2.37E-19
ENSMUSG00000110887	73.21986185	1.246298372	0.447852198	2.782834107	0.005388635	0.02638822
ENSMUSG00000027514	390.6312907	1.246691503	0.518929687	2.402428565	0.016286615	0.063453495
ENSMUSG00000027712	372.1571899	1.24744288	0.236092758	5.283698204	1.27E-07	2.33E-06
ENSMUSG00000062480	43.23551066	1.24782947	0.378586133	3.296025295	0.000980632	0.006537839
ENSMUSG00000031342	56.90257332	1.247861068	0.387802048	3.217778435	0.001291876	0.008180045
ENSMUSG00000102837	15.79095785	1.248184696	0.616249524	2.025453402	0.042820829	0.134670329
ENSMUSG00000113140	125.5201611	1.248476626	0.233128411	5.355317366	8.54E-08	1.63E-06
ENSMUSG00000086047	23.45028084	1.248684508	0.613977725	2.033761906	0.041975607	0.132746975
ENSMUSG00000081618	34.66056031	1.248790207	0.523099542	2.387289813	0.016973105	0.065464756
ENSMUSG00000086881	269.756128	1.251393489	0.181328029	6.901268914	5.15E-12	1.84E-10
ENSMUSG00000107140	16.98308887	1.251987429	0.568494869	2.202284484	0.02764522	0.09618035
ENSMUSG00000041268	686.4322931	1.253005506	0.164141697	7.633681941	2.28E-14	1.06E-12
ENSMUSG00000013846	855.1508915	1.254652094	0.164434202	7.630116332	2.35E-14	1.09E-12
ENSMUSG00000074682	169.5310191	1.255287713	0.285806012	4.392096945	1.12E-05	0.000132184
ENSMUSG00000024778	127.743507	1.255521084	0.270098719	4.648378526	3.35E-06	4.47E-05
ENSMUSG00000032548	1561.107709	1.257355744	0.161522103	7.784419101	7.00E-15	3.46E-13
ENSMUSG00000027227	9270.380628	1.257484731	0.139924439	8.986884228	2.54E-19	1.93E-17

ENSMUSG00000058624	2243.878417	1.258366534	0.442442399	2.844136403	0.004453198	0.022541775
ENSMUSG00000101365	203.776111	1.259818633	0.235771904	5.343378976	9.12E-08	1.73E-06
ENSMUSG00000074639	28.21273756	1.26073791	0.596781555	2.112561789	0.034638292	0.114558587
ENSMUSG00000020609	48812.85482	1.262030326	0.153498402	8.221781553	2.01E-16	1.13E-14
ENSMUSG00000106078	411.1693087	1.263616333	0.176888713	7.143566791	9.09E-13	3.56E-11
ENSMUSG00000102786	43.70264042	1.264450522	0.395812663	3.194568142	0.001400402	0.00876273
ENSMUSG00000044080	926.6951304	1.267875909	0.152561563	8.310585451	9.52E-17	5.56E-15
ENSMUSG00000103747	321.9075229	1.270033915	0.195837894	6.485128523	8.87E-11	2.70E-09
ENSMUSG00000109429	1087.236341	1.271847661	0.135827058	9.363728256	7.70E-21	6.63E-19
ENSMUSG00000112532	96.91999309	1.27406152	0.3427823	3.716824112	0.000201743	0.001690107
ENSMUSG00000085375	20.34689309	1.274120416	0.564607837	2.256646707	0.024030159	0.08630247
ENSMUSG00000112637	286.6461698	1.276643762	0.189324512	6.743150953	1.55E-11	5.23E-10
ENSMUSG00000025701	516.2258311	1.27679883	0.217564883	5.868588771	4.40E-09	1.04E-07
ENSMUSG00000064347	23.27260386	1.279331121	0.604295375	2.117062572	0.034254538	0.113625998
ENSMUSG00000029270	511.5875515	1.281525889	0.145267449	8.821837884	1.13E-18	8.13E-17
ENSMUSG00000023057	12751.59203	1.281617573	0.184003866	6.965166567	3.28E-12	1.20E-10
ENSMUSG00000044726	68.4450587	1.282940366	0.516329418	2.484732269	0.01296489	0.053070854
ENSMUSG00000097417	18.7928631	1.283673911	0.597590888	2.148081466	0.031707284	0.106958728
ENSMUSG00000040270	366.1423407	1.285120429	0.163724027	7.849308698	4.18E-15	2.13E-13
ENSMUSG00000060183	24.04027509	1.286650851	0.552962459	2.326832193	0.019974198	0.074364707
ENSMUSG00000049436	38.26186703	1.287575588	0.410200818	3.138890837	0.001695886	0.010278508
ENSMUSG00000106063	43.78777341	1.28765216	0.39204406	3.284457772	0.001021788	0.006765706
ENSMUSG00000020253	543.1988641	1.287783098	0.142022707	9.06744508	1.22E-19	9.47E-18
ENSMUSG00000093424	38.36219587	1.288517769	0.479385115	2.687855189	0.007191258	0.033341421
ENSMUSG00000094306	20.03264191	1.289015754	0.655824996	1.965487381	0.049357855	0.149759118
ENSMUSG00000097166	22.88113845	1.289680273	0.554721424	2.324915203	0.020076495	0.074683221
ENSMUSG00000030921	113.2952553	1.291481649	0.319624471	4.040621934	5.33E-05	0.000530267
ENSMUSG00000074261	287.3258587	1.292076769	0.248747629	5.194327972	2.05E-07	3.61E-06
ENSMUSG00000031207	62.43690274	1.292913413	0.508200396	2.544101548	0.010955923	0.046609698

ENSMUSG00000071550	65.02392541	1.293135925	0.370920085	3.48629254	0.000489765	0.003645611
ENSMUSG00000039652	419.829642	1.293412088	0.207700434	6.227296019	4.75E-10	1.30E-08
ENSMUSG00000024885	469.0064025	1.294342842	0.208368266	6.211804073	5.24E-10	1.42E-08
ENSMUSG00000103818	29.1171212	1.295828127	0.450045021	2.879329992	0.003985211	0.020582258
ENSMUSG00000077167	209.1455749	1.295845832	0.278774983	4.648357682	3.35E-06	4.47E-05
ENSMUSG00000109787	15.9493494	1.296145915	0.628480924	2.062347265	0.039174686	0.12606561
ENSMUSG00000083951	18.55430464	1.296847454	0.55608993	2.33208225	0.019696365	0.073563662
ENSMUSG00000097387	26.86116427	1.300613047	0.55612458	2.338708076	0.019350547	0.072539342
ENSMUSG00000056904	52.48299937	1.301083587	0.373979817	3.479020869	0.000503249	0.003733521
ENSMUSG00000074634	267.6525501	1.302049806	0.253708771	5.132064617	2.87E-07	4.87E-06
ENSMUSG00000035849	45.64331741	1.303954758	0.503237977	2.591129482	0.009566149	0.041896051
ENSMUSG00000114443	64.46444435	1.304374526	0.331225433	3.938026478	8.22E-05	0.00077403
ENSMUSG00000079645	23.8480441	1.306742926	0.489106401	2.671694591	0.00754693	0.03468757
ENSMUSG00000028158	22432.09938	1.30792539	0.138845301	9.420019141	4.51E-21	4.01E-19
ENSMUSG00000114470	34.73940608	1.308842031	0.420208491	3.114744372	0.001841044	0.010997894
ENSMUSG00000025287	374.0754003	1.308931586	0.165150562	7.925686548	2.27E-15	1.18E-13
ENSMUSG00000106223	26.23864476	1.309530757	0.482108532	2.71625717	0.006602461	0.031109546
ENSMUSG00000103291	393.4220947	1.309930674	0.21361551	6.132188959	8.67E-10	2.28E-08
ENSMUSG00000026589	5783.47307	1.312623367	0.136831736	9.592974616	8.56E-22	8.19E-20
ENSMUSG00000064600	42.18827192	1.315958364	0.423105291	3.110238497	0.001869363	0.011140746
ENSMUSG00000047342	121.3881561	1.316531434	0.249948048	5.267220312	1.39E-07	2.53E-06
ENSMUSG00000021125	3135.831764	1.316616309	0.215161509	6.119200002	9.40E-10	2.46E-08
ENSMUSG00000113660	30.48471841	1.31669388	0.54172327	2.43056548	0.015075282	0.059757174
ENSMUSG00000049119	913.7305541	1.317641046	0.154619828	8.521811589	1.57E-17	1.02E-15
ENSMUSG00000081488	186.1741021	1.318027967	0.23297196	5.657453234	1.54E-08	3.32E-07
ENSMUSG00000080370	14.66059402	1.318644502	0.627875866	2.100167522	0.035714107	0.117363905
ENSMUSG00000114016	27.72451109	1.320065934	0.460349735	2.867528388	0.004136917	0.021277072
ENSMUSG00000103701	38.37552404	1.32051774	0.430839927	3.064984595	0.002176812	0.012615667
ENSMUSG00000110088	26.89398743	1.320562984	0.497072861	2.656678906	0.007891457	0.035952477



ENSMUSG00000106874	365.3040461	1.320987842	0.165857238	7.964607728	1.66E-15	8.74E-14
ENSMUSG00000112144	41.22017038	1.321167255	0.416290979	3.173662947	0.001505284	0.009296646
ENSMUSG00000019997	164.1524868	1.324061477	0.32001964	4.137438175	3.51E-05	0.000364798
ENSMUSG00000029195	71.53833639	1.328631511	0.431543133	3.07879192	0.002078418	0.012149619
ENSMUSG00000045763	85.85167008	1.328790244	0.33230582	3.998696879	6.37E-05	0.000620804
ENSMUSG00000052889	21.08394519	1.330868469	0.542046161	2.455267772	0.014077968	0.05672529
ENSMUSG00000104459	16.88482755	1.330920358	0.604711423	2.200918168	0.027741817	0.096426165
ENSMUSG00000106251	55.43488378	1.331028189	0.343827845	3.871205333	0.000108299	0.000983347
ENSMUSG00000108169	85.90624309	1.331128503	0.323390605	4.11616318	3.85E-05	0.000396266
ENSMUSG00000084899	117.5023637	1.332939975	0.255241601	5.222267726	1.77E-07	3.16E-06
ENSMUSG00000018211	113.5346869	1.333303835	0.287781644	4.633039893	3.60E-06	4.78E-05
ENSMUSG00000111189	42.39401982	1.333505789	0.42622262	3.128660298	0.001756052	0.010567111
ENSMUSG00000027173	686.225831	1.333622748	0.176277215	7.565485692	3.86E-14	1.76E-12
ENSMUSG00000064451	49.28525056	1.335722785	0.376579309	3.54698931	0.00038966	0.002992812
ENSMUSG00000039115	123.3698971	1.336043109	0.321245839	4.158942925	3.20E-05	0.000335537
ENSMUSG00000102970	33.88130571	1.336158851	0.466814746	2.862289297	0.004205928	0.021557436
ENSMUSG00000104020	47.64031595	1.336465889	0.413679217	3.230681728	0.001234954	0.007890436
ENSMUSG00000106290	192.2903755	1.336713414	0.21281964	6.280968314	3.36E-10	9.43E-09
ENSMUSG00000065687	78.38684873	1.337016076	0.295319392	4.527356191	5.97E-06	7.54E-05
ENSMUSG00000021253	20.41955713	1.337493815	0.544382128	2.456902507	0.014014071	0.05653542
ENSMUSG00000102243	51.3652243	1.341081753	0.342582281	3.914626724	9.05E-05	0.000840294
ENSMUSG00000035775	4563.588481	1.342199339	0.228629638	5.870627053	4.34E-09	1.03E-07
ENSMUSG00000113557	41.66110973	1.342413735	0.446577951	3.006000925	0.002647082	0.014862179
ENSMUSG00000109302	67.95359988	1.342751399	0.330246862	4.065902067	4.78E-05	0.000483478
ENSMUSG00000102349	41.4886775	1.342904441	0.525520898	2.555377808	0.01060726	0.045412267
ENSMUSG00000030157	5840.39646	1.344412932	0.122701493	10.95677726	6.17E-28	8.81E-26
ENSMUSG00000111792	35.66039213	1.345832068	0.42217097	3.187883971	0.00143318	0.008925443
ENSMUSG00000040613	1007.381479	1.347106741	0.186827225	7.21044131	5.58E-13	2.24E-11
ENSMUSG00000064373	4279.410871	1.348575408	0.216420165	6.231283527	4.63E-10	1.27E-08

ENSMUSG00000027297	204.1345957	1.350135663	0.205990499	6.554358908	5.59E-11	1.74E-09
ENSMUSG00000102147	96.69130861	1.350290126	0.282528026	4.779313924	1.76E-06	2.52E-05
ENSMUSG00000093858	42.5891265	1.351432077	0.401803951	3.363411621	0.000769855	0.005318628
ENSMUSG00000000948	627.3929532	1.35209033	0.141763276	9.537662866	1.46E-21	1.37E-19
ENSMUSG00000114755	158.024351	1.352410102	0.263124778	5.139805206	2.75E-07	4.69E-06
ENSMUSG00000092887	55.88522158	1.35324779	0.358117638	3.778780058	0.000157599	0.00135699
ENSMUSG00000084934	268.8937414	1.354965293	0.180348389	7.513043527	5.78E-14	2.57E-12
ENSMUSG00000005553	153.3165262	1.355850956	0.255460636	5.307475063	1.11E-07	2.06E-06
ENSMUSG00000019577	960.2087457	1.356378972	0.238530037	5.686407419	1.30E-08	2.83E-07
ENSMUSG00000104798	130.9517121	1.357147861	0.237129008	5.723246895	1.05E-08	2.32E-07
ENSMUSG00000033538	2849.37634	1.357597447	0.154732875	8.773813879	1.73E-18	1.22E-16
ENSMUSG00000070777	510.9213027	1.357981115	0.463101998	2.932358577	0.003363981	0.018016364
ENSMUSG00000097751	27.84599805	1.358805566	0.515043823	2.638232913	0.008333932	0.037592034
ENSMUSG00000031377	309.183281	1.360869008	0.255794911	5.320156688	1.04E-07	1.94E-06
ENSMUSG00000089965	16.01915524	1.36159726	0.625405156	2.177144284	0.029469804	0.100953317
ENSMUSG00000104078	59.42884763	1.361858127	0.370320557	3.677511552	0.00023552	0.001931008
ENSMUSG00000064372	655.1601065	1.36241139	0.25841426	5.272198942	1.35E-07	2.46E-06
ENSMUSG00000104116	137.1364532	1.362788332	0.250036514	5.450357259	5.03E-08	9.96E-07
ENSMUSG00000075602	30.80759514	1.362870081	0.637741405	2.137026184	0.032595862	0.109525436
ENSMUSG00000087424	62.66066382	1.363040146	0.352976407	3.861561614	0.000112665	0.001015986
ENSMUSG00000093289	43.25693942	1.365546124	0.389132587	3.509205263	0.000449448	0.003385052
ENSMUSG00000022265	2296.832215	1.366245077	0.11425391	11.95797216	5.90E-33	1.21E-30
ENSMUSG00000049866	2932.200551	1.36663905	0.169116133	8.081068476	6.42E-16	3.49E-14
ENSMUSG00000108447	63.98637371	1.368455289	0.340342001	4.02082401	5.80E-05	0.000570509
ENSMUSG00000103385	64.21463988	1.368924174	0.321292425	4.260679892	2.04E-05	0.000225115
ENSMUSG00000026335	2181.662563	1.369354392	0.119905263	11.42030261	3.31E-30	5.59E-28
ENSMUSG00000031805	2252.987762	1.372375749	0.193398992	7.096085333	1.28E-12	4.94E-11
ENSMUSG00000102369	17.75521177	1.377466964	0.584540951	2.356493519	0.01844839	0.069965757
ENSMUSG00000021190	3067.46491	1.378796147	0.515095818	2.676776048	0.00743343	0.034278935

ENSMUSG00000087662	37.06853756	1.379205127	0.491275022	2.80739925	0.00499433	0.02481144
ENSMUSG00000079355	55.65066847	1.379961386	0.426669374	3.234263976	0.001219567	0.007810901
ENSMUSG00000071324	33.55434423	1.380628315	0.43187034	3.196858375	0.001389331	0.008698375
ENSMUSG00000022562	924.787752	1.381022479	0.188209046	7.337705127	2.17E-13	8.97E-12
ENSMUSG00000031647	103.1958103	1.382361424	0.283874703	4.869618206	1.12E-06	1.66E-05
ENSMUSG00000040473	190.6168513	1.386019962	0.234905924	5.900319328	3.63E-09	8.77E-08
ENSMUSG00000030643	296.2939784	1.387644932	0.281250184	4.933845417	8.06E-07	1.24E-05
ENSMUSG00000083679	15.15968213	1.387883641	0.605345239	2.292714227	0.021864463	0.080011194
ENSMUSG00000035818	111.1198342	1.388365412	0.335158367	4.14241609	3.44E-05	0.000357801
ENSMUSG00000024713	18520.31114	1.388661117	0.134416745	10.33101282	5.10E-25	6.08E-23
ENSMUSG00000077505	46.99199941	1.388910688	0.426111847	3.259497944	0.001116096	0.007284183
ENSMUSG00000005125	7346.346209	1.38921827	0.372693503	3.727508685	0.000193382	0.001626173
ENSMUSG00000088856	133.5499127	1.389398169	0.310017472	4.481676984	7.41E-06	9.11E-05
ENSMUSG00000103808	65.52587958	1.389531996	0.348371867	3.988645835	6.65E-05	0.000645724
ENSMUSG00000053830	23.97866004	1.392658251	0.555297887	2.507948045	0.012143452	0.050402219
ENSMUSG00000082070	18.23643614	1.394587633	0.594174653	2.347100514	0.01892015	0.071319972
ENSMUSG00000114945	364.8527647	1.395880558	0.15698491	8.891813577	6.01E-19	4.40E-17
ENSMUSG00000047798	265.5628639	1.397494751	0.255875335	5.461623524	4.72E-08	9.38E-07
ENSMUSG00000113577	26.87974028	1.397795281	0.508973471	2.746302827	0.00602711	0.028824917
ENSMUSG00000065434	39.29181049	1.398381589	0.399239373	3.502614433	0.000460716	0.003455911
ENSMUSG00000035513	19.60614208	1.400698504	0.59050154	2.372048858	0.017689751	0.067632289
ENSMUSG00000054793	18.32665182	1.402550481	0.586092405	2.393053502	0.016708804	0.064668457
ENSMUSG00000020709	544.2262191	1.403563774	0.2022413	6.940045246	3.92E-12	1.42E-10
ENSMUSG00000110411	359.1920691	1.403825521	0.205436914	6.83336549	8.29E-12	2.88E-10
ENSMUSG00000045672	119.7922875	1.403896067	0.23987797	5.852542731	4.84E-09	1.14E-07
ENSMUSG00000108633	39.7912893	1.404119121	0.391768109	3.584056709	0.000338299	0.002648086
ENSMUSG00000051295	35.35174065	1.404879164	0.480675755	2.922716921	0.003469918	0.0184464
ENSMUSG00000091721	706.4275186	1.404887744	0.200080341	7.021618115	2.19E-12	8.18E-11
ENSMUSG00000025283	7050.554864	1.405398582	0.140462982	10.00547306	1.44E-23	1.50E-21

ENSMUSG00000056569	54.0762014	1.40643788	0.392505374	3.58323216	0.000339369	0.002655035
ENSMUSG00000024548	865.5946347	1.406674126	0.13961489	10.07538754	7.10E-24	7.84E-22
ENSMUSG00000026678	32.85459099	1.407253122	0.434028059	3.24230909	0.001185654	0.007637568
ENSMUSG00000112084	17.22379302	1.408246749	0.663428672	2.122679965	0.033780679	0.112321891
ENSMUSG00000103016	14.82977547	1.409389605	0.676396544	2.083673574	0.03718987	0.120881982
ENSMUSG00000079110	54.78631112	1.409659983	0.371144612	3.798142118	0.000145785	0.001268987
ENSMUSG00000114749	76.78496208	1.410456166	0.304569923	4.630976534	3.64E-06	4.83E-05
ENSMUSG00000102556	50.7401401	1.410547496	0.358452876	3.935098843	8.32E-05	0.000782534
ENSMUSG00000039899	1650.476457	1.410848731	0.159996215	8.818013165	1.17E-18	8.33E-17
ENSMUSG00000067235	890.8833035	1.412764937	0.177475532	7.960336399	1.72E-15	9.02E-14
ENSMUSG00000037440	685.0005225	1.415420276	0.227400174	6.224358815	4.84E-10	1.32E-08
ENSMUSG00000048763	137.8139724	1.417094169	0.255361893	5.549356459	2.87E-08	5.86E-07
ENSMUSG00000018387	992.6511064	1.418457247	0.118266885	11.99369754	3.83E-33	8.07E-31
ENSMUSG00000097584	62.38532491	1.419107443	0.340635283	4.166061216	3.10E-05	0.000326464
ENSMUSG00000020473	44.79777772	1.419347947	0.416867016	3.404797916	0.00066213	0.004702601
ENSMUSG00000107813	136.1116974	1.420076666	0.301253121	4.713898598	2.43E-06	3.36E-05
ENSMUSG00000035798	2322.361762	1.420181684	0.150900211	9.411396259	4.90E-21	4.33E-19
ENSMUSG00000058952	3099.137155	1.420485975	0.197434405	7.194723614	6.26E-13	2.49E-11
ENSMUSG00000017688	7062.442835	1.420826402	0.136390321	10.41735506	2.07E-25	2.53E-23
ENSMUSG00000026003	7001.673841	1.421793306	0.199782178	7.116717416	1.11E-12	4.29E-11
ENSMUSG00000114812	18.47173124	1.421797075	0.568686376	2.500142669	0.01241433	0.051221457
ENSMUSG00000038594	71.68953693	1.42216048	0.318448659	4.465901931	7.97E-06	9.73E-05
ENSMUSG00000078496	20.4527705	1.422538516	0.537341599	2.647363465	0.008112211	0.036762938
ENSMUSG00000112820	12.40189048	1.4228809	0.681995468	2.086349494	0.036946976	0.120320462
ENSMUSG00000026786	161.8035302	1.424366613	0.28952282	4.919704134	8.67E-07	1.32E-05
ENSMUSG00000021198	99.88296026	1.425602335	0.277897866	5.129950636	2.90E-07	4.92E-06
ENSMUSG00000114190	15.23966202	1.426883185	0.682761519	2.08987054	0.036629431	0.11956571
ENSMUSG00000021411	336.8903216	1.427083017	0.310839535	4.591060202	4.41E-06	5.77E-05
ENSMUSG00000032449	6174.865911	1.429079194	0.171884572	8.314179565	9.24E-17	5.42E-15

ENSMUSG00000036960	57.07830227	1.429651844	0.333309712	4.289259487	1.79E-05	0.000202016
ENSMUSG00000110597	66.62875172	1.430764518	0.389509598	3.673245856	0.000239489	0.001959223
ENSMUSG00000053897	3951.77928	1.433134442	0.112948088	12.68843474	6.85E-37	1.76E-34
ENSMUSG00000070044	2204.961951	1.433752958	0.166864238	8.592332168	8.52E-18	5.69E-16
ENSMUSG00000089728	21.12122455	1.437334681	0.632867295	2.271147036	0.023138078	0.083698668
ENSMUSG00000105677	49.08024485	1.438160095	0.354740763	4.054115694	5.03E-05	0.00050485
ENSMUSG00000102630	12.17191985	1.440123363	0.69145622	2.082739763	0.037274951	0.121105577
ENSMUSG00000051079	495.7670015	1.440737484	0.207028127	6.959138865	3.42E-12	1.25E-10
ENSMUSG00000086417	14.26061195	1.442443238	0.653963553	2.205693624	0.027405459	0.095510101
ENSMUSG00000001663	1996.940596	1.443167871	0.150456046	9.591956666	8.64E-22	8.24E-20
ENSMUSG00000042041	352.5867888	1.446191766	0.281752295	5.132848218	2.85E-07	4.86E-06
ENSMUSG00000112338	23.82780397	1.447234985	0.516731664	2.800747634	0.005098437	0.025233078
ENSMUSG00000021850	223.3974316	1.447974493	0.281563993	5.142612446	2.71E-07	4.63E-06
ENSMUSG00000034164	52.21996856	1.449162851	0.444965367	3.256799204	0.001126761	0.007335875
ENSMUSG00000102732	117.5993627	1.454303283	0.255827766	5.684696797	1.31E-08	2.85E-07
ENSMUSG00000020080	4855.396242	1.45446945	0.164891135	8.820786201	1.14E-18	8.18E-17
ENSMUSG00000021208	8431.511685	1.454607659	0.161305788	9.017702798	1.92E-19	1.48E-17
ENSMUSG00000020839	21.07665405	1.454942274	0.523168431	2.781020775	0.005418827	0.026501153
ENSMUSG00000115333	27.59051306	1.456638394	0.556196536	2.618927481	0.00882067	0.039310502
ENSMUSG00000114610	61.33744102	1.457320691	0.353226179	4.125743719	3.70E-05	0.000382239
ENSMUSG00000032024	31.06432568	1.457406364	0.490416035	2.971775514	0.002960831	0.016255413
ENSMUSG00000105655	82.72907404	1.460881826	0.284792803	5.129630415	2.90E-07	4.92E-06
ENSMUSG00000037499	739.1132324	1.46152749	0.137433103	10.63446478	2.06E-26	2.61E-24
ENSMUSG00000032661	220.1603252	1.461813551	0.331037174	4.415859209	1.01E-05	0.000119791
ENSMUSG00000064984	37.9797332	1.464629747	0.402618254	3.637762903	0.000275016	0.002210938
ENSMUSG00000090191	107.1436817	1.465516223	0.264899344	5.532351279	3.16E-08	6.42E-07
ENSMUSG00000077737	24.3904614	1.467696977	0.486157281	3.018975614	0.002536309	0.014348614
ENSMUSG00000081520	20.27076427	1.469365653	0.564224359	2.604222292	0.009208301	0.040665338
ENSMUSG00000103497	27.54740823	1.470003254	0.557594975	2.636328017	0.008380867	0.037735054

ENSMUSG00000030769	333.8577028	1.471057512	0.292661461	5.026481826	5.00E-07	8.03E-06
ENSMUSG00000029248	49.85036371	1.471794713	0.400299911	3.676730056	0.000236243	0.001935507
ENSMUSG00000064647	47.30265335	1.473058541	0.373797041	3.940797759	8.12E-05	0.00076676
ENSMUSG00000109539	81.14784098	1.47428772	0.323188307	4.561698832	5.07E-06	6.56E-05
ENSMUSG00000103784	22.9106368	1.474538385	0.497987531	2.960994587	0.003066473	0.016744716
ENSMUSG00000026817	190.7827308	1.474863599	0.247119574	5.968218452	2.40E-09	5.94E-08
ENSMUSG00000108991	60.16149656	1.474972104	0.324021801	4.552076735	5.31E-06	6.80E-05
ENSMUSG00000020067	10.41090111	1.475919804	0.752969761	1.960131576	0.049980413	0.151045592
ENSMUSG00000102172	15.84489378	1.476851597	0.641162841	2.30339549	0.021256601	0.078276662
ENSMUSG00000107534	34.77293808	1.478533921	0.41913056	3.527621373	0.000419311	0.00319149
ENSMUSG00000033705	188.1587498	1.478894632	0.321210741	4.60412571	4.14E-06	5.46E-05
ENSMUSG00000076448	23.65528616	1.480358634	0.510923737	2.897416048	0.003762504	0.019641294
ENSMUSG00000085399	67.47915488	1.48161924	0.335365692	4.417921324	9.97E-06	0.000118718
ENSMUSG00000026586	45.64095201	1.483635473	0.441444511	3.360865148	0.000776988	0.005357946
ENSMUSG00000044317	18.27809062	1.485105862	0.592711938	2.505611525	0.012223984	0.05065163
ENSMUSG00000047735	1796.049239	1.486003567	0.200132916	7.425083269	1.13E-13	4.82E-12
ENSMUSG00000000555	1578.758922	1.487196987	0.124069513	11.98680446	4.17E-33	8.68E-31
ENSMUSG00000106211	46.18304988	1.487839201	0.397604689	3.742006173	0.000182557	0.001544463
ENSMUSG00000033715	1639.372792	1.488513626	0.374355466	3.976203799	7.00E-05	0.000674561
ENSMUSG00000020120	95.81913195	1.488846576	0.280720261	5.303666249	1.13E-07	2.11E-06
ENSMUSG00000056515	112.2430524	1.489694944	0.262770718	5.669181705	1.43E-08	3.11E-07
ENSMUSG00000112759	31.40938454	1.491724698	0.522339059	2.855855161	0.004292109	0.021873473
ENSMUSG00000004933	955.5604729	1.49232098	0.189197344	7.887642351	3.08E-15	1.58E-13
ENSMUSG00000081755	450.7576019	1.495731787	0.200119799	7.474181926	7.77E-14	3.40E-12
ENSMUSG00000090231	501.912881	1.495905123	0.1842092	8.120686262	4.64E-16	2.53E-14
ENSMUSG00000073144	14.75874021	1.497883641	0.722255561	2.073896999	0.038088878	0.123265138
ENSMUSG00000006576	77.00428688	1.499851596	0.334998285	4.477191865	7.56E-06	9.29E-05
ENSMUSG00000091507	22.2862727	1.500479845	0.574757345	2.610631876	0.009037512	0.040044815
ENSMUSG00000089662	36.80591875	1.500677037	0.427161667	3.513136019	0.000442851	0.003342137

ENSMUSG00000024268	22.97443381	1.503935098	0.544843244	2.760307878	0.005774691	0.02787893
ENSMUSG00000049799	213.0514119	1.505780358	0.252039131	5.974391175	2.31E-09	5.74E-08
ENSMUSG00000032377	27.07335518	1.506697448	0.495250524	3.042293496	0.002347829	0.013442599
ENSMUSG00000090386	124.5281636	1.508212358	0.311536104	4.841212113	1.29E-06	1.90E-05
ENSMUSG00000024940	81.15240115	1.508968397	0.385446611	3.914857088	9.05E-05	0.00084002
ENSMUSG00000037946	241.6828037	1.510642388	0.221976402	6.805418826	1.01E-11	3.45E-10
ENSMUSG00000021187	663.5911639	1.511604548	0.265554952	5.692247627	1.25E-08	2.74E-07
ENSMUSG00000027875	11017.19328	1.511906558	0.097677746	15.47851602	4.85E-54	2.40E-51
ENSMUSG00000085620	19.41439828	1.512954491	0.614281631	2.462965542	0.013779316	0.055790218
ENSMUSG00000009646	1082.434177	1.51699617	0.173187819	8.759254424	1.97E-18	1.38E-16
ENSMUSG00000101778	48.59068035	1.518453835	0.386658578	3.927117934	8.60E-05	0.00080589
ENSMUSG00000103391	63.74466317	1.522491663	0.336290173	4.527315357	5.97E-06	7.54E-05
ENSMUSG00000002475	1750.33883	1.522560342	0.138973545	10.9557567	6.24E-28	8.86E-26
ENSMUSG00000027796	308.5739149	1.523620626	0.232401609	6.555981411	5.53E-11	1.72E-09
ENSMUSG00000028755	4233.605265	1.524251292	0.155492953	9.802703371	1.10E-22	1.10E-20
ENSMUSG00000021730	563.3904587	1.524406319	0.15552176	9.801884443	1.11E-22	1.11E-20
ENSMUSG00000103922	17.09031216	1.526259339	0.762785027	2.000903643	0.045402775	0.140883162
ENSMUSG00000074896	84.56906272	1.527810004	0.423971806	3.603565102	0.000313882	0.002483109
ENSMUSG00000052852	35.57985001	1.531343513	0.437887912	3.497113011	0.000470323	0.003518505
ENSMUSG00000082928	15.96517027	1.531671199	0.627113366	2.442415169	0.014589358	0.058349582
ENSMUSG00000112816	85.78679613	1.531968281	0.286177119	5.353217217	8.64E-08	1.65E-06
ENSMUSG00000103622	15.39610917	1.532136587	0.682619836	2.244494676	0.024800591	0.088478321
ENSMUSG00000031884	15.75547884	1.532442527	0.614377415	2.494301531	0.012620528	0.051889823
ENSMUSG00000033965	374.955767	1.532504378	0.248990745	6.154864831	7.51E-10	2.00E-08
ENSMUSG00000106384	57.10876683	1.535648911	0.361740947	4.245161976	2.18E-05	0.000239495
ENSMUSG00000115746	14.07894452	1.536539305	0.701219632	2.191238287	0.028434553	0.098297779
ENSMUSG00000037605	30.29930826	1.537385934	0.46577258	3.300722287	0.000964363	0.00644672
ENSMUSG00000027676	55.80872291	1.539927779	0.36364606	4.234688472	2.29E-05	0.000248733
ENSMUSG00000105457	95.83040762	1.540100249	0.328822634	4.68368077	2.82E-06	3.84E-05

ENSMUSG00000029417	47.2027195	1.54191281	0.512068174	3.011147517	0.002602624	0.014660549
ENSMUSG00000054951	1711.573886	1.54244699	0.136272744	11.31882241	1.06E-29	1.76E-27
ENSMUSG00000101603	12.68773279	1.544340077	0.784339461	1.968968991	0.048956652	0.148907957
ENSMUSG00000028037	88.10780314	1.544574203	0.403513154	3.827816236	0.000129285	0.00114731
ENSMUSG00000056185	31.24576247	1.544624714	0.464722197	3.323759277	0.000888128	0.006032942
ENSMUSG00000106514	20.63772513	1.545074486	0.562194453	2.748291943	0.005990664	0.028693686
ENSMUSG00000018906	57.26547416	1.546811951	0.359926993	4.2975714	1.73E-05	0.000195403
ENSMUSG00000113964	244.8992571	1.547050378	0.212302205	7.287019846	3.17E-13	1.28E-11
ENSMUSG00000038370	29.61747745	1.547932202	0.459558663	3.368301652	0.000756328	0.005246867
ENSMUSG00000004328	143.5395052	1.550223316	0.405868653	3.819519702	0.000133712	0.001177445
ENSMUSG00000089512	21.13762653	1.552540207	0.583261597	2.66182484	0.007771831	0.035530874
ENSMUSG00000086674	36.47939572	1.55416587	0.421973403	3.683089642	0.000230424	0.001894098
ENSMUSG00000022822	3598.289776	1.554666558	0.137975767	11.26767832	1.90E-29	3.13E-27
ENSMUSG00000103043	16.2565907	1.554723346	0.66355034	2.343037523	0.019127459	0.071969204
ENSMUSG00000085786	14.46767937	1.55476855	0.692724486	2.24442557	0.024805033	0.088480012
ENSMUSG00000074818	163.8757674	1.555428928	0.278017268	5.594720567	2.21E-08	4.64E-07
ENSMUSG00000108359	26.85281322	1.555846485	0.472564928	3.292344383	0.000993559	0.006604278
ENSMUSG00000079339	458.4289578	1.557434615	0.470514868	3.310064613	0.000932744	0.006280535
ENSMUSG00000107970	27.39807164	1.557772959	0.50009548	3.114951085	0.001839754	0.010996611
ENSMUSG00000031633	2583.582546	1.559450379	0.161012866	9.685253215	3.48E-22	3.38E-20
ENSMUSG00000105909	191.7552878	1.560914451	0.226379565	6.895120826	5.38E-12	1.91E-10
ENSMUSG00000078498	10.2264084	1.561073609	0.758904382	2.057009612	0.039685301	0.127359606
ENSMUSG00000110127	35.4130075	1.56117953	0.497321158	3.139177781	0.001694226	0.01027548
ENSMUSG00000075520	20175.73181	1.562874925	0.129701219	12.04980903	1.94E-33	4.25E-31
ENSMUSG00000107542	16.63035802	1.563787252	0.60620605	2.579629902	0.009890625	0.042996397
ENSMUSG00000047810	315.6878496	1.564850625	0.30305178	5.163641089	2.42E-07	4.18E-06
ENSMUSG00000019823	3285.552156	1.565555364	0.140351873	11.15450285	6.81E-29	1.08E-26
ENSMUSG00000105392	79.94811453	1.565925266	0.304361952	5.144944218	2.68E-07	4.59E-06
ENSMUSG00000109039	17.88267608	1.56602126	0.611094183	2.562651232	0.010387634	0.044693266



ENSMUSG00000058317	777.1912755	1.567130538	0.141768888	11.05412171	2.09E-28	3.09E-26
ENSMUSG00000097122	14.5734308	1.569313136	0.666199707	2.355619672	0.01849184	0.070062269
ENSMUSG00000105395	27.93221002	1.56961707	0.53197001	2.950574356	0.003171837	0.017181233
ENSMUSG00000015222	169.158501	1.572700462	0.244563122	6.430652533	1.27E-10	3.80E-09
ENSMUSG00000052131	514.4760048	1.574252769	0.489598396	3.215396092	0.001302646	0.008241225
ENSMUSG00000110928	22.99716205	1.575199797	0.52619523	2.99356533	0.002757385	0.015357751
ENSMUSG00000103822	11.63506057	1.575529691	0.726162903	2.169664251	0.03003229	0.102376965
ENSMUSG00000047298	14.59159061	1.575559222	0.658634834	2.392158965	0.016749586	0.064793152
ENSMUSG00000037685	9590.981585	1.575975692	0.10529308	14.96751447	1.20E-50	5.23E-48
ENSMUSG00000071633	44.78433572	1.579380873	0.438132719	3.604800113	0.000312393	0.002473086
ENSMUSG00000017390	1047.861347	1.579754033	0.172189234	9.174522673	4.54E-20	3.68E-18
ENSMUSG00000100826	375.4363679	1.580953221	0.208471344	7.583551711	3.36E-14	1.53E-12
ENSMUSG00000031497	1079.462815	1.58106967	0.131719426	12.00331434	3.41E-33	7.25E-31
ENSMUSG00000024421	277.739339	1.582930327	0.322245241	4.912191475	9.01E-07	1.37E-05
ENSMUSG00000040026	27.83428437	1.583699958	0.514234173	3.079725231	0.002071916	0.012121146
ENSMUSG00000060923	17.94617855	1.583968049	0.638803783	2.479584641	0.013153551	0.053685457
ENSMUSG00000064369	138.0441907	1.584304962	0.388266291	4.080459727	4.49E-05	0.000457256
ENSMUSG00000088699	14.06768436	1.585877416	0.697139509	2.274835088	0.022915824	0.083015887
ENSMUSG00000025528	432.7460823	1.586982822	0.286349582	5.542116767	2.99E-08	6.09E-07
ENSMUSG00000081182	34.67430034	1.587251097	0.471483596	3.366503329	0.000761277	0.005273433
ENSMUSG00000053310	313.3325055	1.588628841	0.237767774	6.681430429	2.37E-11	7.82E-10
ENSMUSG00000062980	1042.411691	1.589162923	0.136961397	11.6029988	3.98E-31	7.46E-29
ENSMUSG00000070315	335.512818	1.592225109	0.255809616	6.224258236	4.84E-10	1.32E-08
ENSMUSG00000028970	54.897844	1.594329888	0.36322661	4.389353218	1.14E-05	0.00013351
ENSMUSG00000031594	224.08813	1.594441213	0.208173895	7.659179422	1.87E-14	8.82E-13
ENSMUSG00000109576	35.59978717	1.596181313	0.417805527	3.820393008	0.000133239	0.001173989
ENSMUSG00000108108	19.78023362	1.596508735	0.552884552	2.887598737	0.003881947	0.02015623
ENSMUSG00000113186	38.08059242	1.597220806	0.423775284	3.769027752	0.000163885	0.001405149
ENSMUSG00000040990	380.1134263	1.598466796	0.21489933	7.438212102	1.02E-13	4.39E-12

ENSMUSG00000032487	9.634797405	1.601184196	0.78506716	2.039550599	0.041395107	0.131446999
ENSMUSG00000031750	82.20659071	1.602339622	0.336902192	4.756097346	1.97E-06	2.79E-05
ENSMUSG00000106178	27.13997679	1.602832226	0.468239921	3.423100323	0.000619112	0.004439493
ENSMUSG00000090399	56.07294943	1.604007679	0.389800026	4.114950155	3.87E-05	0.000397805
ENSMUSG00000091952	12.40471374	1.604375536	0.792074881	2.02553518	0.04281244	0.134662937
ENSMUSG00000045391	11.49336518	1.606118848	0.752845857	2.133396674	0.0328922	0.11027194
ENSMUSG00000064342	52.82644072	1.607022326	0.419976372	3.826458897	0.00013	0.001152226
ENSMUSG00000110754	34.5102591	1.607362719	0.456328859	3.522377968	0.000427694	0.003245941
ENSMUSG00000034855	1069.346209	1.610642877	0.191887606	8.393678529	4.71E-17	2.90E-15
ENSMUSG00000085445	131.7296339	1.6121375	0.289274049	5.573045713	2.50E-08	5.20E-07
ENSMUSG00000110462	17.99917284	1.613604652	0.636481486	2.535194955	0.011238476	0.047530676
ENSMUSG00000084744	25.83373888	1.617243384	0.514780646	3.141616523	0.001680179	0.010201383
ENSMUSG00000030302	77.63857914	1.617264594	0.311519401	5.191537306	2.09E-07	3.65E-06
ENSMUSG00000025491	16.51982338	1.622199232	0.710889464	2.281928927	0.022493537	0.081858414
ENSMUSG00000102951	36.74659869	1.622247967	0.52420766	3.094666659	0.001970342	0.011649151
ENSMUSG00000029630	1035.242242	1.622888348	0.602196278	2.694949149	0.007039937	0.032776126
ENSMUSG00000013083	81.9643198	1.624458546	0.305867629	5.310985514	1.09E-07	2.03E-06
ENSMUSG00000036412	12.27307988	1.62570522	0.736511614	2.207304256	0.02729281	0.095284497
ENSMUSG00000034648	38.47506586	1.62759443	0.463963582	3.508021948	0.000451452	0.003398996
ENSMUSG00000113917	15.21915993	1.628504847	0.62506633	2.605331257	0.009178547	0.04059714
ENSMUSG00000103024	28.25854134	1.631239077	0.491972686	3.315710657	0.000914104	0.006183026
ENSMUSG00000019359	324.095298	1.633716709	0.507435428	3.219555865	0.001283893	0.008145692
ENSMUSG00000077549	92.43121812	1.634586444	0.308577652	5.297164045	1.18E-07	2.18E-06
ENSMUSG00000026921	141.4592809	1.634974189	0.254110254	6.434113402	1.24E-10	3.72E-09
ENSMUSG00000038843	61.96566168	1.638013445	0.385746365	4.246348365	2.17E-05	0.000238439
ENSMUSG00000024340	2788.51095	1.638422807	0.16465031	9.950924533	2.50E-23	2.58E-21
ENSMUSG00000032418	496.87398	1.639407562	0.139648896	11.7394953	8.00E-32	1.58E-29
ENSMUSG00000038167	730.8934923	1.641064465	0.174730683	9.391965049	5.89E-21	5.15E-19
ENSMUSG00000113788	29.80410576	1.641783036	0.534548915	3.07134294	0.002130982	0.012404865

ENSMUSG00000021216	507.1211873	1.641885545	0.19636951	8.361204044	6.21E-17	3.77E-15
ENSMUSG00000064918	90.57127576	1.6419745	0.285949613	5.742181226	9.35E-09	2.10E-07
ENSMUSG00000006205	26.86019855	1.642507709	0.538060371	3.052645755	0.002268335	0.013061231
ENSMUSG00000019699	28.83356143	1.642720157	0.529597261	3.101829026	0.00192329	0.011407258
ENSMUSG000000106354	37.52293493	1.643156547	0.51908341	3.165496168	0.001548187	0.009529704
ENSMUSG00000032735	21.89593832	1.644185852	0.54772801	3.00182905	0.002683628	0.015033307
ENSMUSG000000104479	37.90469233	1.644438299	0.406329038	4.047060748	5.19E-05	0.000517974
ENSMUSG00000041323	673.9875639	1.645752709	0.164123276	10.02753999	1.15E-23	1.22E-21
ENSMUSG00000041012	179.0538328	1.646049879	0.220676997	7.459091354	8.71E-14	3.79E-12
ENSMUSG00000027583	97.33961953	1.646663995	0.290939158	5.659822502	1.52E-08	3.28E-07
ENSMUSG00000025197	16.20102278	1.648471197	0.754669791	2.184360916	0.028935738	0.099567334
ENSMUSG00000028199	90.67785108	1.655227566	0.281014137	5.890193218	3.86E-09	9.27E-08
ENSMUSG00000026737	32.71269919	1.657290079	0.568118326	2.917156522	0.003532385	0.018707126
ENSMUSG000000108476	65.89242124	1.657477201	0.309519827	5.354995243	8.56E-08	1.63E-06
ENSMUSG00000034528	998.3882589	1.657524296	0.19704058	8.412096093	4.03E-17	2.51E-15
ENSMUSG00000094584	1279.06839	1.659076981	0.194443773	8.532425352	1.43E-17	9.40E-16
ENSMUSG00000039116	1633.292677	1.659096297	0.14466634	11.46843348	1.90E-30	3.42E-28
ENSMUSG00000075033	103.5372452	1.661575517	0.275221705	6.037225573	1.57E-09	3.98E-08
ENSMUSG00000027961	32.439811	1.662202974	0.453383049	3.666222146	0.00024616	0.002002048
ENSMUSG00000097404	71.25418944	1.663129708	0.331899803	5.010939124	5.42E-07	8.60E-06
ENSMUSG00000033847	405.6396898	1.664834965	0.244500516	6.809126592	9.82E-12	3.37E-10
ENSMUSG000000106386	55.40942776	1.665502179	0.375255108	4.438319814	9.07E-06	0.00010888
ENSMUSG00000064215	1190.934614	1.666756155	0.145706395	11.4391421	2.67E-30	4.64E-28
ENSMUSG00000086922	166.0923311	1.67130943	0.22196953	7.529454273	5.10E-14	2.29E-12
ENSMUSG000000106214	35.64230699	1.6713416	0.421805286	3.962353376	7.42E-05	0.000708805
ENSMUSG00000027358	1165.294983	1.672256198	0.184288675	9.074112633	1.15E-19	8.97E-18
ENSMUSG000000115568	83.41271859	1.672399357	0.306693506	5.452998924	4.95E-08	9.83E-07
ENSMUSG00000037994	13.54185047	1.672544745	0.685718158	2.439113978	0.014723324	0.058769436
ENSMUSG00000032348	534.1392602	1.674016862	0.193755771	8.639829696	5.63E-18	3.85E-16

ENSMUSG00000024899	3854.230746	1.67541916	0.186537796	8.981660524	2.67E-19	2.02E-17
ENSMUSG00000031355	345.9722189	1.675529826	0.188049225	8.910059738	5.10E-19	3.74E-17
ENSMUSG00000110262	18.98896734	1.677816989	0.578479076	2.900393565	0.003726944	0.019496734
ENSMUSG00000104852	109.1625352	1.678475822	0.26782629	6.267031597	3.68E-10	1.02E-08
ENSMUSG00000041481	21.46010038	1.680470801	0.716147821	2.346541807	0.01894854	0.071392363
ENSMUSG00000044162	14.93371024	1.684456907	0.723302295	2.328842197	0.019867427	0.074090885
ENSMUSG00000113502	64.80403123	1.685171793	0.424897494	3.966066683	7.31E-05	0.00070086
ENSMUSG00000046688	11892.57608	1.687671182	0.185683197	9.088981713	1.00E-19	7.91E-18
ENSMUSG00000104938	13.99067261	1.690581661	0.706076648	2.394331644	0.016650686	0.064477676
ENSMUSG00000038641	13.67187992	1.697315589	0.788360429	2.152969032	0.031321112	0.105864221
ENSMUSG00000084587	10.17420528	1.706673574	0.77339072	2.206741728	0.027332108	0.095367061
ENSMUSG00000032033	2640.547383	1.708263239	0.183628311	9.302831524	1.37E-20	1.15E-18
ENSMUSG00000029814	100.9923597	1.709463772	0.349997153	4.884221932	1.04E-06	1.56E-05
ENSMUSG00000010796	19.94674662	1.709776092	0.546294778	3.129768327	0.001749442	0.010538711
ENSMUSG00000046814	72.27779981	1.711097806	0.359083889	4.765175651	1.89E-06	2.68E-05
ENSMUSG00000104064	9.42165664	1.711287187	0.820292905	2.086190404	0.036961379	0.120330982
ENSMUSG00000020010	42.44373913	1.711470369	0.381980598	4.480516489	7.45E-06	9.16E-05
ENSMUSG00000103187	53.14831317	1.712076242	0.39617383	4.321527854	1.55E-05	0.000177666
ENSMUSG00000021226	1138.883008	1.712284425	0.12381367	13.82952648	1.69E-43	5.99E-41
ENSMUSG00000087150	2715.091329	1.713578909	0.854991123	2.004206668	0.045047927	0.140035379
ENSMUSG00000052942	259.8590936	1.716342986	0.274556279	6.251333951	4.07E-10	1.12E-08
ENSMUSG00000038732	723.4059824	1.7177389	0.170834437	10.05499203	8.73E-24	9.50E-22
ENSMUSG00000064653	14.51103544	1.717768191	0.683216819	2.514235809	0.011929064	0.049743841
ENSMUSG00000047638	2668.363082	1.718404972	0.148417702	11.57816719	5.32E-31	9.88E-29
ENSMUSG00000031444	15.7320671	1.720149782	0.877075838	1.961232664	0.049851888	0.150765793
ENSMUSG00000042684	47.40657082	1.723146469	0.400811776	4.299141319	1.71E-05	0.000194198
ENSMUSG00000108643	10.0562958	1.724341591	0.876721169	1.966807295	0.049205431	0.149420627
ENSMUSG00000081816	14.27896923	1.725306979	0.712569305	2.421247966	0.015467322	0.061007563
ENSMUSG00000102921	15.04471445	1.726225859	0.70330235	2.454457686	0.014109727	0.05682308

ENSMUSG00000053862	195.2975997	1.726302906	0.287029304	6.014378606	1.81E-09	4.55E-08
ENSMUSG00000084048	11.32776374	1.731490043	0.728750823	2.37596993	0.017502889	0.067113468
ENSMUSG00000041649	16.9693969	1.731613983	0.636147367	2.722032777	0.006488171	0.030655232
ENSMUSG00000070436	99.19645273	1.73307973	0.391404585	4.427847284	9.52E-06	0.000113811
ENSMUSG00000104136	57.74873581	1.738260287	0.341547109	5.089371979	3.59E-07	5.97E-06
ENSMUSG00000092415	26.88668318	1.738574881	0.596278936	2.915707359	0.003548832	0.018771941
ENSMUSG00000067813	137.8849063	1.739687782	0.285205893	6.099760994	1.06E-09	2.76E-08
ENSMUSG00000048655	22.09536832	1.739909619	0.558436489	3.115680392	0.001835211	0.010972395
ENSMUSG00000099858	150.7060568	1.741203997	0.245467265	7.093426466	1.31E-12	5.02E-11
ENSMUSG00000114247	63.27719209	1.74498569	0.32605579	5.351800961	8.71E-08	1.66E-06
ENSMUSG00000103390	18.61785776	1.74518903	0.61072235	2.857581732	0.004268827	0.021789679
ENSMUSG00000048528	177.8195591	1.750338331	0.370720611	4.72144866	2.34E-06	3.25E-05
ENSMUSG00000097917	21.03696736	1.752446187	0.657062404	2.667092464	0.007651062	0.035065008
ENSMUSG00000115366	18.826801	1.752592521	0.672017605	2.60795626	0.009108459	0.040311123
ENSMUSG00000086746	9.558802725	1.755153745	0.886012891	1.980957345	0.047596057	0.145842219
ENSMUSG00000032826	51.17770755	1.755786413	0.375762503	4.672596121	2.97E-06	4.03E-05
ENSMUSG00000037797	165.6308291	1.757666812	0.313937697	5.598775896	2.16E-08	4.54E-07
ENSMUSG00000114907	62.33935222	1.757911603	0.354569294	4.957878851	7.13E-07	1.11E-05
ENSMUSG00000030382	49.56543182	1.758767675	0.385931716	4.557199113	5.18E-06	6.67E-05
ENSMUSG00000111853	39.26685032	1.763739579	0.422947097	4.170118657	3.04E-05	0.000321617
ENSMUSG00000038151	443.8298427	1.763942926	0.224780882	7.847388582	4.25E-15	2.15E-13
ENSMUSG00000105936	47.20419933	1.76887953	0.38046373	4.649272426	3.33E-06	4.46E-05
ENSMUSG00000014503	11.32183763	1.770900932	0.773345213	2.289922926	0.022025785	0.080458154
ENSMUSG00000105681	120.7962981	1.770952784	0.236687378	7.482244304	7.31E-14	3.21E-12
ENSMUSG00000114529	12.40976128	1.771039919	0.725828847	2.440024155	0.01468628	0.058642565
ENSMUSG00000047497	80.39174062	1.771537632	0.394292217	4.492956127	7.02E-06	8.70E-05
ENSMUSG00000039697	1958.9626	1.777170348	0.147616368	12.03911445	2.21E-33	4.79E-31
ENSMUSG00000060508	194.7169451	1.781233614	0.354863463	5.019490034	5.18E-07	8.28E-06
ENSMUSG00000106542	59.81202719	1.781880119	0.344300359	5.175365261	2.27E-07	3.96E-06

ENSMUSG00000070530	53.87075243	1.785118241	0.471498148	3.786055682	0.000153057	0.001322593
ENSMUSG00000104018	113.731713	1.786956908	0.25633141	6.971275615	3.14E-12	1.16E-10
ENSMUSG00000020169	18.95602262	1.788478718	0.606965619	2.946589827	0.003212991	0.017356735
ENSMUSG00000032714	200.3066299	1.792397364	0.221935229	8.076218339	6.68E-16	3.62E-14
ENSMUSG00000029380	158.3645128	1.796797142	0.352334793	5.099686938	3.40E-07	5.68E-06
ENSMUSG00000028028	10102.06882	1.797770983	0.18822444	9.551209109	1.28E-21	1.21E-19
ENSMUSG00000022235	1499.317209	1.799712016	0.755291062	2.382805922	0.01718125	0.066130316
ENSMUSG00000112911	15.37919189	1.801403699	0.774110775	2.32706191	0.01996197	0.074331592
ENSMUSG00000037124	29.70887144	1.802051382	0.521694444	3.45422767	0.000551871	0.004022237
ENSMUSG00000015968	220.9412218	1.807786997	0.290184372	6.229787586	4.67E-10	1.28E-08
ENSMUSG00000100551	7.404172901	1.808524056	0.898071192	2.01378696	0.044031905	0.137528784
ENSMUSG00000089988	131.5033065	1.809271855	0.305092763	5.930235251	3.03E-09	7.38E-08
ENSMUSG00000070369	63.41478912	1.818506044	0.434597931	4.184341242	2.86E-05	0.000303712
ENSMUSG00000079019	15.0684242	1.820513691	0.648070032	2.809131113	0.004967541	0.024722413
ENSMUSG00000103553	78.75606612	1.821800403	0.358483804	5.081960143	3.74E-07	6.18E-06
ENSMUSG00000030621	249.1646012	1.823091725	0.233456245	7.80913669	5.76E-15	2.87E-13
ENSMUSG00000105962	29.49006061	1.824636569	0.493992719	3.693650732	0.000221057	0.001830598
ENSMUSG00000113766	60.28388156	1.82683705	0.343615769	5.316511099	1.06E-07	1.97E-06
ENSMUSG00000018924	209.2737762	1.826948568	0.753760543	2.423778458	0.015359973	0.060680735
ENSMUSG00000030711	203.9447701	1.827128522	0.33365639	5.476078314	4.35E-08	8.67E-07
ENSMUSG00000042284	7627.134601	1.831831784	0.119456287	15.33474565	4.48E-53	2.17E-50
ENSMUSG00000037762	82.92050019	1.832945633	0.387043736	4.735758421	2.18E-06	3.05E-05
ENSMUSG00000087801	10.0353567	1.835278513	0.929098373	1.975332823	0.048230391	0.14726562
ENSMUSG00000021835	30.36633103	1.84071807	0.479978137	3.835003991	0.000125562	0.001117384
ENSMUSG00000027762	18.77722694	1.841407368	0.826344456	2.22837747	0.025855354	0.091393288
ENSMUSG00000070138	11.29288546	1.841797234	0.742849652	2.479367432	0.013161565	0.053695845
ENSMUSG00000024500	460.0491517	1.843823494	0.197044791	9.357382576	8.17E-21	7.01E-19
ENSMUSG00000071862	23.59820462	1.844417276	0.619665219	2.97647378	0.00291584	0.01605584
ENSMUSG00000053825	18.80941728	1.848041101	0.648549005	2.849501098	0.004378785	0.022249099

ENSMUSG00000082917	10.84817168	1.849504933	0.937419653	1.972974353	0.048498484	0.147916398
ENSMUSG00000037784	23.64907558	1.850574637	0.68571781	2.69874081	0.006960236	0.032459269
ENSMUSG00000024863	50.67890703	1.851269424	0.364474144	5.079288761	3.79E-07	6.25E-06
ENSMUSG00000089214	14.60232578	1.854206958	0.715000568	2.593294385	0.009506136	0.04169873
ENSMUSG00000106516	12.19408411	1.857707778	0.738614885	2.515123669	0.011899064	0.049628019
ENSMUSG00000027820	5270.702107	1.858924149	0.215522565	8.625194986	6.40E-18	4.35E-16
ENSMUSG00000077493	27.67382402	1.863374884	0.474706066	3.925323515	8.66E-05	0.000810219
ENSMUSG00000036368	318.2844752	1.867167189	0.169952578	10.98640112	4.44E-28	6.48E-26
ENSMUSG00000090264	47.33062497	1.867367745	0.446833849	4.17910986	2.93E-05	0.000310192
ENSMUSG00000105720	26.03112694	1.869568578	0.504888248	3.702935424	0.000213119	0.001772099
ENSMUSG00000102750	8.417475622	1.869709573	0.921119031	2.029824062	0.042374426	0.133576313
ENSMUSG00000027309	4330.669303	1.875160745	0.109189679	17.17342476	4.20E-66	3.12E-63
ENSMUSG00000114430	18.46162066	1.878756724	0.641085195	2.930588226	0.003383209	0.018097612
ENSMUSG00000097146	14.12102499	1.879269026	0.778863477	2.412834958	0.015828985	0.062082695
ENSMUSG00000115543	65.39775435	1.879713055	0.346602707	5.423249775	5.85E-08	1.15E-06
ENSMUSG00000056888	407.7534768	1.879956754	0.24611375	7.63856857	2.20E-14	1.02E-12
ENSMUSG00000032087	24.18878586	1.88133754	0.576813479	3.261604673	0.001107835	0.007245112
ENSMUSG00000023176	27.00902362	1.881935589	0.653349289	2.880443312	0.003971164	0.020529007
ENSMUSG00000035239	429.4316566	1.883818685	0.17612686	10.69580578	1.06E-26	1.41E-24
ENSMUSG00000089659	23.01793832	1.88402745	0.545722373	3.452355163	0.000555716	0.004044718
ENSMUSG00000071604	1889.975868	1.885521574	0.173398137	10.87394369	1.53E-27	2.10E-25
ENSMUSG00000078566	171.1362627	1.886724064	0.218182796	8.647446526	5.27E-18	3.61E-16
ENSMUSG00000019817	122.0048424	1.887844006	0.331268453	5.698834255	1.21E-08	2.65E-07
ENSMUSG00000077602	9.032885346	1.888150007	0.817654703	2.309226622	0.020931009	0.077294657
ENSMUSG00000105502	8.549111003	1.888657217	0.913306461	2.067933708	0.038646257	0.124779236
ENSMUSG00000069255	19.96002537	1.890051238	0.552346429	3.421858347	0.000621947	0.004456954
ENSMUSG00000106164	11.46551484	1.891272779	0.754396517	2.507000941	0.012176039	0.050499877
ENSMUSG00000042498	43.43595348	1.897971958	0.445084244	4.264298243	2.01E-05	0.000222002
ENSMUSG00000020102	330.1089877	1.899566269	0.514663181	3.690892102	0.000223469	0.001845771

ENSMUSG00000073680	52.19657714	1.90178733	0.367593234	5.17361897	2.30E-07	3.98E-06
ENSMUSG00000103505	44.92635469	1.906238004	0.414675989	4.596933647	4.29E-06	5.62E-05
ENSMUSG00000057137	58.97344777	1.906365784	0.41676944	4.574149643	4.78E-06	6.20E-05
ENSMUSG00000113517	19.3104458	1.906929705	0.652519825	2.922408841	0.003473353	0.018455859
ENSMUSG00000108500	65.51144467	1.912017792	0.323416425	5.911937805	3.38E-09	8.20E-08
ENSMUSG00000097009	12.00902944	1.916965333	0.745045649	2.572950175	0.010083572	0.043630917
ENSMUSG00000030972	205.6271679	1.917381617	0.202055326	9.489389155	2.32E-21	2.12E-19
ENSMUSG00000035780	1225.878955	1.918018611	0.205969439	9.312151457	1.25E-20	1.05E-18
ENSMUSG00000048216	51.37628806	1.919953019	0.384016972	4.999656676	5.74E-07	9.06E-06
ENSMUSG00000104157	13.56792886	1.921495384	0.723404319	2.656184562	0.007903035	0.035976657
ENSMUSG00000032081	517.9724606	1.921946454	0.271871239	7.069326141	1.56E-12	5.90E-11
ENSMUSG00000087398	10.14874716	1.926649968	0.863086369	2.232279454	0.025596499	0.09065071
ENSMUSG00000030630	358.3663758	1.927615972	0.173528238	11.10837054	1.14E-28	1.79E-26
ENSMUSG00000040963	17.54048912	1.928403378	0.680664343	2.833119433	0.004609616	0.023194731
ENSMUSG00000097082	9.430745756	1.936026413	0.828388809	2.337098706	0.019434052	0.072796391
ENSMUSG00000096299	309.6862411	1.938001475	0.260112019	7.450641774	9.29E-14	4.04E-12
ENSMUSG00000051041	18.6823187	1.943234797	0.607200233	3.200319583	0.001372753	0.008619229
ENSMUSG00000088113	30.68861251	1.946241274	0.462656771	4.20666333	2.59E-05	0.000277738
ENSMUSG00000040093	921.528445	1.94763676	0.228296523	8.531171371	1.45E-17	9.47E-16
ENSMUSG00000019906	8.564501145	1.949214309	0.853214253	2.284554322	0.022338974	0.081442122
ENSMUSG00000111620	52.67021262	1.950182653	0.373766565	5.217648755	1.81E-07	3.22E-06
ENSMUSG00000080918	8.727673613	1.950736997	0.841234209	2.318898798	0.020400524	0.075623686
ENSMUSG00000037390	5863.620288	1.951266155	0.450803521	4.328418182	1.50E-05	0.000172642
ENSMUSG00000073418	348.2734345	1.955153791	0.823817473	2.373285168	0.017630646	0.067475723
ENSMUSG00000031230	386.6539225	1.955176328	0.270929929	7.21653875	5.33E-13	2.14E-11
ENSMUSG00000027574	13.0117246	1.955477291	0.710412483	2.752594213	0.005912513	0.028380318
ENSMUSG00000033544	29.93377256	1.959091091	0.530100265	3.695699137	0.000219283	0.001818602
ENSMUSG00000079017	29.65391304	1.96128361	0.561437433	3.49332534	0.000477045	0.003560435
ENSMUSG00000049176	11.30318204	1.962663445	0.754839158	2.600108147	0.009319439	0.041041232



ENSMUSG00000037405	1040.256141	1.965537863	0.228276509	8.610337835	7.28E-18	4.92E-16
ENSMUSG00000050052	39.75193751	1.971455844	0.413449628	4.768309631	1.86E-06	2.64E-05
ENSMUSG00000031595	85.5321997	1.973172405	0.43396648	4.54683137	5.45E-06	6.93E-05
ENSMUSG00000055322	51.68344731	1.976222936	0.414277252	4.770290736	1.84E-06	2.62E-05
ENSMUSG00000037145	28365.87133	1.97645664	0.152560131	12.95526309	2.19E-38	6.19E-36
ENSMUSG00000105624	42.19460554	1.984340007	0.394614654	5.028551243	4.94E-07	7.96E-06
ENSMUSG00000099419	16.6500137	1.986376214	0.666339213	2.981028545	0.00287282	0.015865964
ENSMUSG00000111888	56.33738628	1.987242452	0.373392028	5.322134116	1.03E-07	1.92E-06
ENSMUSG00000102863	44.627625	1.989863615	0.39055061	5.095021147	3.49E-07	5.81E-06
ENSMUSG00000018500	154.8544747	1.991517884	0.280956677	7.088345106	1.36E-12	5.18E-11
ENSMUSG00000022218	262.920568	1.994084513	0.253439098	7.868101357	3.60E-15	1.84E-13
ENSMUSG00000086587	6.488046654	1.994605141	1.011451048	1.972023406	0.048606935	0.148085143
ENSMUSG00000020798	63.49329171	1.994734623	0.384917356	5.182241309	2.19E-07	3.82E-06
ENSMUSG00000024502	8.503549554	1.995725265	0.952249325	2.095801186	0.036099831	0.118408933
ENSMUSG00000111617	34.71284268	1.997317899	0.527238073	3.788265682	0.000151703	0.001312813
ENSMUSG00000045064	90.54163506	2.002535614	0.348773717	5.741647132	9.38E-09	2.10E-07
ENSMUSG00000021986	102.8145635	2.003383307	0.400217981	5.005730376	5.57E-07	8.81E-06
ENSMUSG00000029167	1799.737044	2.004040379	0.154963282	12.93235634	2.96E-38	8.22E-36
ENSMUSG00000027790	13168.07717	2.004304135	0.203940563	9.827883718	8.54E-23	8.66E-21
ENSMUSG00000036231	1854.408413	2.005071767	0.548074709	3.658391338	0.000253803	0.002055648
ENSMUSG00000084923	7.374959023	2.005776342	0.88969461	2.254454865	0.024167567	0.086663598
ENSMUSG00000031257	2563.283246	2.005839027	0.183246623	10.94611726	6.94E-28	9.79E-26
ENSMUSG00000101537	25.33203921	2.008363222	0.578559137	3.471318823	0.000517909	0.003821313
ENSMUSG00000025194	8384.067294	2.009654831	0.48138292	4.174753086	2.98E-05	0.000315738
ENSMUSG00000115383	41.10328972	2.010216336	0.395098717	5.087883738	3.62E-07	6.01E-06
ENSMUSG00000041762	973.2419413	2.010523534	0.133029307	15.11338806	1.32E-51	6.02E-49
ENSMUSG00000065904	27.89414711	2.011584535	0.47295318	4.253242431	2.11E-05	0.000231809
ENSMUSG00000112634	10.74257329	2.013134209	0.791843268	2.542339237	0.011011324	0.046782919
ENSMUSG00000024727	1409.775073	2.014435848	0.224599558	8.969010731	2.99E-19	2.25E-17

ENSMUSG00000113656	11.02741892	2.015253961	0.85040821	2.369748949	0.017800167	0.067972865
ENSMUSG00000042942	197.5221866	2.015670147	0.317675275	6.345064619	2.22E-10	6.40E-09
ENSMUSG00000098192	59.45485492	2.01741949	0.417305509	4.834394581	1.34E-06	1.95E-05
ENSMUSG00000110438	6.58045901	2.021858521	0.966896395	2.091080834	0.036520818	0.119455965
ENSMUSG00000105701	159.8997351	2.023237471	0.340587513	5.940433502	2.84E-09	6.96E-08
ENSMUSG00000001802	133.9855127	2.026273877	0.287418072	7.049918145	1.79E-12	6.75E-11
ENSMUSG00000041700	19.05030784	2.026549073	0.674314543	3.005346828	0.002652782	0.014890432
ENSMUSG00000046005	13.62261207	2.028140064	0.733205573	2.766127455	0.005672636	0.027483262
ENSMUSG00000104994	24.13540811	2.029453921	0.583194649	3.479891189	0.000501617	0.003722653
ENSMUSG00000036553	266.4522152	2.030660592	0.297537364	6.824892731	8.80E-12	3.04E-10
ENSMUSG00000113416	40.86318182	2.032819166	0.456710434	4.451002244	8.55E-06	0.000103366
ENSMUSG00000102391	14.2151862	2.033259987	0.841899761	2.415085596	0.015731512	0.061798213
ENSMUSG00000103356	89.29598289	2.033928869	0.318279142	6.390393207	1.65E-10	4.86E-09
ENSMUSG00000103851	11.18197509	2.035713426	0.920337673	2.21192013	0.026972184	0.094610513
ENSMUSG00000072620	468.4633012	2.037199847	0.2487896	8.188444571	2.65E-16	1.46E-14
ENSMUSG00000035919	2315.397073	2.044334997	0.138001681	14.81384131	1.19E-49	4.92E-47
ENSMUSG00000104888	202.6853609	2.044568005	0.290390851	7.04074526	1.91E-12	7.18E-11
ENSMUSG00000023070	1186.306842	2.045210001	0.184581053	11.08028135	1.56E-28	2.39E-26
ENSMUSG00000096968	52.23752037	2.055457912	0.369254281	5.56651071	2.60E-08	5.35E-07
ENSMUSG00000113234	21.98364019	2.058968479	0.570946505	3.60623712	0.000310669	0.002460311
ENSMUSG00000030968	10.13378692	2.061057215	0.864842011	2.38316038	0.017164714	0.066100897
ENSMUSG00000077274	17.78123872	2.062083313	0.589483669	3.498117798	0.000468554	0.003508806
ENSMUSG00000101581	43.62799718	2.063136623	0.483670022	4.265587138	1.99E-05	0.00022099
ENSMUSG00000093898	8.99390581	2.067736267	1.051319214	1.966801557	0.049206093	0.149420627
ENSMUSG00000035041	2817.182139	2.070708255	0.221579357	9.34522188	9.17E-21	7.81E-19
ENSMUSG00000033453	3305.31663	2.072317374	0.123667063	16.75722961	5.01E-63	3.29E-60
ENSMUSG00000107041	69.65156822	2.073063973	0.325860847	6.361807482	1.99E-10	5.80E-09
ENSMUSG00000115314	14.08047139	2.074459615	0.705454643	2.940599563	0.003275777	0.017624392
ENSMUSG00000032875	1259.082881	2.075381376	0.172788746	12.01109112	3.11E-33	6.66E-31

ENSMUSG00000052584	21.30118319	2.078790387	0.602008016	3.4530942	0.000554195	0.00403497
ENSMUSG00000106320	125.2528311	2.080890361	0.271148257	7.674363767	1.66E-14	7.90E-13
ENSMUSG00000028602	26.43143977	2.081515996	0.530544451	3.92335834	8.73E-05	0.000815833
ENSMUSG00000095457	4810.475441	2.083715602	0.150928584	13.80597064	2.35E-43	8.17E-41
ENSMUSG00000106583	12.55619013	2.087342105	0.760691212	2.744007124	0.006069422	0.028983765
ENSMUSG00000089940	23.04535683	2.088105215	0.554558941	3.765344059	0.00016632	0.001423839
ENSMUSG00000031216	154.4566631	2.089754879	0.23221647	8.99916738	2.27E-19	1.74E-17
ENSMUSG00000032698	72.08184978	2.091606763	0.376739721	5.551861523	2.83E-08	5.78E-07
ENSMUSG00000037583	216.3356015	2.093869621	0.251362294	8.330086392	8.08E-17	4.82E-15
ENSMUSG00000064350	54.95034024	2.095348663	0.468522803	4.472244782	7.74E-06	9.49E-05
ENSMUSG00000038600	28.91712498	2.096906637	0.604146485	3.470857963	0.000518798	0.003823437
ENSMUSG00000106049	52.5929598	2.097691133	0.440451784	4.762589704	1.91E-06	2.71E-05
ENSMUSG00000115505	6.661212341	2.098469104	1.048051662	2.002257312	0.045257065	0.140587519
ENSMUSG00000084674	6.668582371	2.100123601	1.033244353	2.032552701	0.042097734	0.132992076
ENSMUSG00000028226	110.9105634	2.100178269	0.331694232	6.331669558	2.43E-10	6.92E-09
ENSMUSG00000085888	16.43474486	2.106751239	0.698601779	3.015668302	0.002564136	0.014472993
ENSMUSG00000023073	111.9426547	2.108709041	0.295619239	7.13319284	9.81E-13	3.84E-11
ENSMUSG00000089706	105.3734433	2.109776044	0.280414563	7.523774879	5.32E-14	2.38E-12
ENSMUSG00000104140	18.31939469	2.110231605	0.610551682	3.456270232	0.000547706	0.003998164
ENSMUSG00000004562	2363.793634	2.111500362	0.39047181	5.407561585	6.39E-08	1.25E-06
ENSMUSG00000113241	16.29248514	2.126566408	0.706374817	3.010535423	0.002607875	0.014686421
ENSMUSG00000106651	34.74893195	2.130232086	0.45694892	4.66186042	3.13E-06	4.22E-05
ENSMUSG00000048040	32.3752118	2.130360362	0.554640596	3.840974458	0.000122547	0.00109273
ENSMUSG00000105230	9.50526746	2.139552698	0.812624031	2.632893709	0.008466084	0.038041937
ENSMUSG00000030519	56.29601421	2.149588919	0.390186303	5.509134744	3.61E-08	7.26E-07
ENSMUSG00000001131	51.28324353	2.150929163	0.47746453	4.50489833	6.64E-06	8.29E-05
ENSMUSG00000111442	5.333727454	2.153350103	1.063844037	2.024121985	0.042957602	0.134967242
ENSMUSG00000087346	36.26535552	2.155431831	0.427557778	5.041264466	4.62E-07	7.51E-06
ENSMUSG00000049409	25.24399024	2.157323319	0.617520244	3.49352647	0.000476686	0.003558945

ENSMUSG00000036892	75.58058183	2.16113602	0.389726437	5.545264104	2.94E-08	5.98E-07
ENSMUSG00000028088	3241.18635	2.162401007	0.364588451	5.931073801	3.01E-09	7.35E-08
ENSMUSG00000060613	74.40090086	2.163256727	0.372390322	5.80911103	6.28E-09	1.45E-07
ENSMUSG00000058794	39.83091325	2.165911145	0.428516135	5.054444784	4.32E-07	7.05E-06
ENSMUSG00000095871	13.43212239	2.172944206	0.720203288	3.017126194	0.002551836	0.014418162
ENSMUSG00000014599	1258.881288	2.174203375	0.189675136	11.46277483	2.03E-30	3.56E-28
ENSMUSG00000027068	23.93256858	2.175092406	0.546146898	3.982614228	6.82E-05	0.000659751
ENSMUSG00000108145	7.339806269	2.176701306	1.076529029	2.02196248	0.043180228	0.135571205
ENSMUSG00000094103	6.664478765	2.179191548	1.0655171	2.045196223	0.040835517	0.130040391
ENSMUSG00000102687	25.01616894	2.17967096	0.537787345	4.053035053	5.06E-05	0.000506278
ENSMUSG00000043740	26.77350688	2.182658108	0.536131752	4.071122631	4.68E-05	0.000474488
ENSMUSG00000096377	6.089808227	2.185218949	1.063576913	2.054594192	0.039918217	0.127886246
ENSMUSG00000076609	28.59164748	2.18688768	0.695543028	3.144144347	0.001665733	0.010132979
ENSMUSG00000074479	359.8012122	2.190833065	0.865876075	2.530192402	0.011399999	0.04807704
ENSMUSG00000027577	6.634226174	2.197588355	1.095549175	2.005923974	0.04486436	0.139523092
ENSMUSG00000106859	79.99031971	2.199210516	0.316412971	6.950443614	3.64E-12	1.33E-10
ENSMUSG00000070798	118.8308496	2.202095015	0.294408245	7.479732832	7.45E-14	3.27E-12
ENSMUSG00000105976	14.40283787	2.204472165	0.675416673	3.263869923	0.001099016	0.007197991
ENSMUSG00000096630	37.69952258	2.209962933	0.559465517	3.950132521	7.81E-05	0.000740344
ENSMUSG00000017724	961.9274897	2.210625839	0.21553765	10.25633268	1.11E-24	1.29E-22
ENSMUSG00000072683	46.54046727	2.216534592	0.380048723	5.832237971	5.47E-09	1.28E-07
ENSMUSG00000078350	81.89837209	2.21700311	0.391031064	5.669634236	1.43E-08	3.11E-07
ENSMUSG00000000706	30.26558718	2.223091145	0.474636964	4.683771624	2.82E-06	3.84E-05
ENSMUSG00000115345	9.483759349	2.227697717	0.828911725	2.687496931	0.007198976	0.033363336
ENSMUSG00000095562	144.7444453	2.234289027	0.700233138	3.190778763	0.001418899	0.008863547
ENSMUSG00000074071	44.89182866	2.245747537	0.488034094	4.601620181	4.19E-06	5.52E-05
ENSMUSG00000036123	2692.114632	2.249304952	0.444830465	5.056544304	4.27E-07	6.97E-06
ENSMUSG00000031788	2737.586266	2.250049707	0.17337106	12.97823127	1.63E-38	4.65E-36
ENSMUSG00000070799	12.16499056	2.253345519	0.760585637	2.962645374	0.003050077	0.016683781

ENSMUSG00000079388	20.34991834	2.254522134	0.616343589	3.657898249	0.000254292	0.00205768
ENSMUSG00000046213	18.68080651	2.258097345	0.650871818	3.46934263	0.000521734	0.003841262
ENSMUSG00000087400	19.42233942	2.258970465	0.634378375	3.560919719	0.000369558	0.002862631
ENSMUSG00000087293	8.384806947	2.262742317	0.874960295	2.58610857	0.009706635	0.042386463
ENSMUSG00000062391	7.599543274	2.265931878	0.938420307	2.414623662	0.015751475	0.061865735
ENSMUSG00000109428	21.10167601	2.266541918	0.631478038	3.589264838	0.000331612	0.002604887
ENSMUSG00000022150	33.12682249	2.269400873	0.527045218	4.305894058	1.66E-05	0.000188654
ENSMUSG00000070704	416.1546549	2.273221574	0.271825187	8.362806995	6.12E-17	3.73E-15
ENSMUSG00000036853	50.46271017	2.275147748	0.461441956	4.930517735	8.20E-07	1.26E-05
ENSMUSG00000030155	1136.569919	2.28374124	0.178423434	12.79955884	1.65E-37	4.43E-35
ENSMUSG00000023122	594.5734811	2.286268014	0.251774742	9.0806091	1.08E-19	8.48E-18
ENSMUSG00000106356	10.19287862	2.287046339	0.896815516	2.550185961	0.010766547	0.045976533
ENSMUSG00000021314	70.32703739	2.291490249	0.378751656	6.050112824	1.45E-09	3.68E-08
ENSMUSG00000073987	1687.158028	2.294046445	0.173592399	13.21513184	7.18E-40	2.16E-37
ENSMUSG00000091269	63.33474973	2.299797442	0.387430366	5.936027852	2.92E-09	7.14E-08
ENSMUSG00000106570	31.77208466	2.301135424	0.532665133	4.320041391	1.56E-05	0.000178591
ENSMUSG00000025352	206.7993974	2.301632029	0.830026685	2.772961485	0.005554869	0.027018352
ENSMUSG00000019990	61.53316072	2.304042342	0.408513935	5.640058128	1.70E-08	3.64E-07
ENSMUSG00000079164	69.2141673	2.307385866	0.34083339	6.769835152	1.29E-11	4.37E-10
ENSMUSG00000104936	32.26668928	2.317104559	0.495518375	4.676122371	2.92E-06	3.96E-05
ENSMUSG00000109658	7.665474017	2.319545954	1.017836416	2.27889857	0.022673095	0.082337193
ENSMUSG00000027375	15.93282988	2.320622579	0.714535207	3.247737211	0.001163267	0.007521603
ENSMUSG00000073208	6.160524665	2.322485528	1.119521905	2.07453335	0.038029805	0.123145445
ENSMUSG00000096547	6.830654169	2.322836266	0.955143111	2.43192485	0.015018823	0.059582637
ENSMUSG00000105985	128.7399325	2.323644376	0.269108719	8.634593417	5.89E-18	4.02E-16
ENSMUSG00000091475	16.97056569	2.32367823	0.670026501	3.468039288	0.000524271	0.003857393
ENSMUSG00000106045	22.97372311	2.324681505	0.594385101	3.911069611	9.19E-05	0.000850997
ENSMUSG00000095595	5.091022524	2.325381034	1.170329666	1.986945303	0.046928459	0.144431625
ENSMUSG00000075014	64.90070639	2.325933051	0.434919826	5.347958204	8.90E-08	1.69E-06

ENSMUSG00000022197	255.9654016	2.331665422	0.328834233	7.090701602	1.33E-12	5.11E-11
ENSMUSG00000027016	95.90746419	2.3317076	0.35640683	6.542264069	6.06E-11	1.88E-09
ENSMUSG00000113441	21.56028689	2.335037727	0.585706943	3.986699759	6.70E-05	0.000650474
ENSMUSG00000069259	12.55696067	2.340323591	0.856487909	2.732465416	0.006286227	0.029880352
ENSMUSG00000050982	1736.119641	2.352409914	0.523507552	4.49355488	7.00E-06	8.68E-05
ENSMUSG00000096546	337.8171039	2.35330184	0.234838126	10.02095307	1.23E-23	1.30E-21
ENSMUSG00000027669	16.16079497	2.361186872	0.700228424	3.372023743	0.00074618	0.005193684
ENSMUSG00000113438	5.756851855	2.367414588	1.158250459	2.043957392	0.040957757	0.130373812
ENSMUSG00000093985	9.723959575	2.370015506	0.946244138	2.504655418	0.012257074	0.050741602
ENSMUSG00000037754	1545.391867	2.378583161	0.191766658	12.40352829	2.50E-35	5.93E-33
ENSMUSG00000091697	11.15583039	2.380092286	0.767236139	3.102163944	0.001921115	0.011397391
ENSMUSG00000030022	16.99521522	2.383925656	0.65165836	3.658244571	0.000253949	0.002055648
ENSMUSG00000056978	67.91930063	2.393257866	0.395212687	6.05562003	1.40E-09	3.57E-08
ENSMUSG00000032374	227.7541865	2.402971888	0.330354259	7.273924351	3.49E-13	1.41E-11
ENSMUSG00000031561	247.402669	2.406299166	0.272874488	8.818336894	1.16E-18	8.33E-17
ENSMUSG00000110877	5.204189298	2.410278095	1.111873093	2.167763668	0.030176672	0.102727824
ENSMUSG00000095195	14.33033152	2.410928951	0.738739619	3.263570667	0.001100177	0.007203481
ENSMUSG00000083618	5.451605957	2.414410957	1.20360018	2.005990857	0.044857223	0.139520354
ENSMUSG00000055691	25.74281648	2.414922889	0.514708947	4.691822249	2.71E-06	3.71E-05
ENSMUSG00000021999	6.175159568	2.416981038	1.18057804	2.047286123	0.04063	0.129533899
ENSMUSG00000115264	21.704506	2.421057641	0.559806105	4.324814644	1.53E-05	0.000175217
ENSMUSG00000038496	72.31957028	2.422700578	0.363108026	6.672120707	2.52E-11	8.23E-10
ENSMUSG00000107814	5.091483404	2.42812994	1.195642916	2.03081531	0.042273733	0.133401235
ENSMUSG00000102761	11.43372161	2.438336935	0.773551125	3.152134172	0.001620818	0.009911121
ENSMUSG00000022490	22.85654822	2.445383313	0.57071794	4.284749337	1.83E-05	0.000205339
ENSMUSG00000106557	12.90359205	2.447419687	0.747181289	3.27553664	0.001054614	0.006955977
ENSMUSG00000102854	6.420984323	2.456479645	1.09852294	2.236165996	0.0253409	0.089974113
ENSMUSG00000055214	338.3677571	2.456718615	0.230055233	10.67882083	1.28E-26	1.65E-24
ENSMUSG00000105289	30.79736038	2.462552919	0.476247695	5.170739816	2.33E-07	4.03E-06

ENSMUSG00000057074	636.0908309	2.469404515	0.242607673	10.17859198	2.47E-24	2.78E-22
ENSMUSG00000067231	2797.030201	2.471174854	0.15345166	16.10393037	2.39E-58	1.40E-55
ENSMUSG00000053161	14.19889283	2.474971579	0.752139919	3.290573359	0.000999834	0.006642033
ENSMUSG00000080384	11.00094868	2.480886756	0.818236204	3.031993383	0.002429445	0.0138071
ENSMUSG00000070342	4.364961146	2.487345166	1.254824691	1.982225233	0.047454038	0.145567056
ENSMUSG00000074577	12.08246406	2.490242476	0.862763513	2.886355807	0.003897313	0.020221958
ENSMUSG00000027070	7.631846123	2.496377103	1.005876068	2.481793913	0.013072286	0.053422217
ENSMUSG00000097615	60.07111495	2.49832105	0.423947485	5.892996518	3.79E-09	9.13E-08
ENSMUSG00000097815	8.749955513	2.508865305	0.970057441	2.586305924	0.009701079	0.042378796
ENSMUSG00000068252	5.438797625	2.51302423	1.233494208	2.037321467	0.041617838	0.131985126
ENSMUSG00000054630	196.8402695	2.513622466	0.343914123	7.308866654	2.69E-13	1.10E-11
ENSMUSG00000015702	151.6022364	2.520804292	0.237725605	10.60384007	2.86E-26	3.58E-24
ENSMUSG00000084539	5.435111913	2.529059682	1.122465703	2.253128693	0.024251036	0.086865138
ENSMUSG00000052955	67.00285478	2.531701172	0.4747382	5.33283644	9.67E-08	1.82E-06
ENSMUSG00000085093	7.509262309	2.533985978	1.11120286	2.280399079	0.02258403	0.082108206
ENSMUSG00000020884	150.1886151	2.535928426	0.303974116	8.342580144	7.27E-17	4.37E-15
ENSMUSG000000107666	24.09042944	2.536404731	0.609748623	4.159754752	3.19E-05	0.000334504
ENSMUSG00000092460	10.7934308	2.549943044	0.850634025	2.997696976	0.00272028	0.015196635
ENSMUSG00000038233	122.7296058	2.553099015	0.398568317	6.405674774	1.50E-10	4.42E-09
ENSMUSG00000023094	362.0357156	2.561296913	0.23813416	10.75568877	5.57E-27	7.49E-25
ENSMUSG00000040339	149.0931886	2.563013644	0.250035901	10.25058257	1.18E-24	1.35E-22
ENSMUSG00000064620	4.340266288	2.569994721	1.301138223	1.975189627	0.048246633	0.147289275
ENSMUSG00000036356	61.33705072	2.57924216	0.36483267	7.069657883	1.55E-12	5.90E-11
ENSMUSG00000021219	6.605660983	2.579769985	1.059547277	2.434785159	0.014900634	0.059307342
ENSMUSG00000046470	15.26376788	2.580395432	0.791499777	3.260134125	0.001113595	0.007276382
ENSMUSG00000030228	419.0295975	2.581307264	0.222262737	11.6137653	3.51E-31	6.63E-29
ENSMUSG00000031364	6.842930842	2.58362397	0.979555408	2.637547555	0.008350792	0.037626634
ENSMUSG000000112793	8.992810226	2.583800618	0.890644098	2.901047259	0.003719178	0.019473183
ENSMUSG00000032017	220.4073407	2.584068467	0.272078273	9.497518623	2.15E-21	1.96E-19

ENSMUSG00000020937	302.6995325	2.587463838	0.243768866	10.61441472	2.55E-26	3.22E-24
ENSMUSG00000086777	39.21008082	2.588889201	0.472365624	5.480689263	4.24E-08	8.46E-07
ENSMUSG00000038408	6.963890167	2.607769731	1.017775997	2.562223651	0.010400432	0.044724519
ENSMUSG00000021613	14.03773797	2.615297438	0.741428826	3.52737491	0.000419702	0.003192283
ENSMUSG00000065581	83.66685945	2.616017441	0.339181992	7.712725029	1.23E-14	5.96E-13
ENSMUSG00000096942	1706.326771	2.618515892	0.120916295	21.655608	5.38E-104	1.50E-100
ENSMUSG00000072966	19.18611089	2.624770255	0.641657073	4.090612206	4.30E-05	0.000438381
ENSMUSG00000024503	1017.377744	2.627268705	0.229734361	11.43611559	2.76E-30	4.77E-28
ENSMUSG00000038656	9.115402602	2.632036165	0.97153864	2.709142032	0.006745746	0.031684261
ENSMUSG00000105495	18.2148389	2.64031515	0.711400542	3.711432582	0.00020609	0.00172264
ENSMUSG00000111118	8.974041609	2.651755259	1.086832684	2.439892817	0.01469162	0.058653387
ENSMUSG00000093610	8.284608521	2.652479037	0.910692386	2.912596038	0.00358438	0.018897222
ENSMUSG00000022037	1388.539088	2.661035096	0.16907449	15.73883258	8.19E-56	4.25E-53
ENSMUSG00000003477	51.76717386	2.665602569	0.464116843	5.743386846	9.28E-09	2.09E-07
ENSMUSG00000058625	41.19294377	2.666000307	0.529614991	5.033846008	4.81E-07	7.77E-06
ENSMUSG00000027340	5024.686305	2.678481229	0.149492888	17.91711474	8.67E-72	8.79E-69
ENSMUSG00000020620	26.79539908	2.681262874	0.5483883	4.889350985	1.01E-06	1.52E-05
ENSMUSG00000031274	7.278709873	2.688637053	1.026698494	2.618721143	0.008826006	0.039326427
ENSMUSG00000062624	14.79135239	2.692686567	0.708711727	3.799410202	0.000145041	0.001263992
ENSMUSG00000016386	9.652456231	2.704718947	1.035010616	2.613228217	0.008969139	0.03981305
ENSMUSG00000108124	14.99602106	2.709341502	0.703192835	3.852913975	0.00011672	0.001047056
ENSMUSG00000032108	40.06246987	2.711037386	0.516431221	5.249561363	1.52E-07	2.76E-06
ENSMUSG00000030222	6.370105628	2.720576561	1.163781254	2.337704403	0.019402588	0.072722203
ENSMUSG00000081888	5.074651143	2.721078563	1.20919618	2.250320178	0.024428628	0.087332932
ENSMUSG00000086184	24.18658111	2.732430493	0.599297243	4.559391063	5.13E-06	6.62E-05
ENSMUSG00000079174	4125.183754	2.739508633	0.50688074	5.404641406	6.49E-08	1.27E-06
ENSMUSG00000093580	59.58375553	2.742355173	0.391186682	7.010349025	2.38E-12	8.84E-11
ENSMUSG00000111512	10.00874502	2.743109358	0.888074713	3.088827232	0.002009483	0.01183273
ENSMUSG00000052560	12.43032367	2.743575957	1.106086129	2.480436094	0.013122178	0.053585405



ENSMUSG00000105622	32.59482476	2.744667402	0.523008723	5.247842493	1.54E-07	2.77E-06
ENSMUSG00000079516	598.3054498	2.746999736	0.244437697	11.2380364	2.65E-29	4.35E-27
ENSMUSG00000085980	12.24624137	2.754571876	0.881240381	3.125789439	0.001773285	0.010650163
ENSMUSG00000111943	14.29189602	2.758733169	1.002619471	2.751525628	0.005931838	0.028460825
ENSMUSG00000049037	26.06458387	2.760913165	0.589405232	4.684235928	2.81E-06	3.84E-05
ENSMUSG00000025993	1333.590937	2.767724766	0.161333555	17.15529521	5.74E-66	4.13E-63
ENSMUSG00000040260	4.996259167	2.774858374	1.317496706	2.106159629	0.035190489	0.115903572
ENSMUSG00000104368	589.9847428	2.776956892	0.227693813	12.19601385	3.26E-34	7.43E-32
ENSMUSG00000111218	4.978393844	2.777468623	1.248744609	2.2242087	0.026134406	0.09214599
ENSMUSG00000034459	287.0282468	2.782046103	0.574918973	4.839022949	1.30E-06	1.91E-05
ENSMUSG00000081053	10.64756106	2.791883729	0.948276688	2.944165731	0.003238265	0.017460483
ENSMUSG00000054720	86.20908227	2.798083585	0.475387341	5.885902598	3.96E-09	9.48E-08
ENSMUSG00000111761	13.39623119	2.803862551	0.765501507	3.662778619	0.000249494	0.002026947
ENSMUSG00000037679	4128.296631	2.810560479	0.55978149	5.0208171	5.15E-07	8.24E-06
ENSMUSG00000062168	157.7400691	2.811809375	0.33677741	8.34916266	6.87E-17	4.14E-15
ENSMUSG00000058488	42.64148459	2.813074673	0.541654097	5.193489143	2.06E-07	3.62E-06
ENSMUSG00000111962	5.315265327	2.813782016	1.171696831	2.401459099	0.016329834	0.063577451
ENSMUSG00000032065	10.70048297	2.817521282	0.851956442	3.307118937	0.000942609	0.006328735
ENSMUSG00000102185	26.23713367	2.823240378	0.633335177	4.457734987	8.28E-06	0.000100555
ENSMUSG00000082809	129.4922916	2.841430766	0.388380684	7.316097023	2.55E-13	1.05E-11
ENSMUSG00000030472	598.8943347	2.857393382	0.192279847	14.86059733	5.94E-50	2.50E-47
ENSMUSG00000029716	106.3412975	2.859822278	0.343370646	8.328674317	8.18E-17	4.86E-15
ENSMUSG00000105442	37.56128038	2.86180281	0.560151366	5.108981219	3.24E-07	5.44E-06
ENSMUSG00000067229	634.3502806	2.86597305	0.258478686	11.08785058	1.44E-28	2.21E-26
ENSMUSG00000047564	9.587510187	2.880790498	0.916536653	3.143126342	0.001671537	0.010158979
ENSMUSG00000090175	272.7612918	2.881644588	0.2261145	12.74418307	3.36E-37	8.92E-35
ENSMUSG00000022650	232.0133586	2.882345403	0.989408206	2.913201431	0.003577438	0.018874009
ENSMUSG00000103951	8.029897528	2.889111669	1.116847942	2.586844243	0.009685936	0.04232679
ENSMUSG00000062488	62.11311364	2.892406838	0.451399337	6.407645301	1.48E-10	4.37E-09

ENSMUSG00000079386	13.37274832	2.89301246	0.98799262	2.928172136	0.003409612	0.018212638
ENSMUSG00000074882	1143.075767	2.898113361	0.43388367	6.679470934	2.40E-11	7.91E-10
ENSMUSG00000092021	24.03465867	2.901437008	0.612137124	4.739848141	2.14E-06	2.99E-05
ENSMUSG00000032028	11.43593758	2.908055709	0.850200457	3.420435364	0.00062521	0.004473149
ENSMUSG00000088626	4.058499082	2.909405627	1.36691599	2.12844509	0.033300198	0.111171814
ENSMUSG00000063446	22.0890906	2.910089531	0.625063634	4.655669236	3.23E-06	4.34E-05
ENSMUSG00000056487	4.021944696	2.910126805	1.39230522	2.090150035	0.036604324	0.119553754
ENSMUSG00000097091	8.462224103	2.910516733	0.940418992	3.094914882	0.001968694	0.011642493
ENSMUSG00000115301	8.023543177	2.912900755	1.305952741	2.230479453	0.02571563	0.09095706
ENSMUSG00000100706	13.49541892	2.915034474	0.789485386	3.692322272	0.000222216	0.001838142
ENSMUSG00000106450	20.4876588	2.917123431	0.627210847	4.650945447	3.30E-06	4.43E-05
ENSMUSG00000026874	13.77140961	2.918495966	0.741234398	3.937345562	8.24E-05	0.000775901
ENSMUSG00000100211	4.120209206	2.951341616	1.349634908	2.186770362	0.028759292	0.099097802
ENSMUSG00000111296	33.11972124	2.984959326	0.583716287	5.113716016	3.16E-07	5.31E-06
ENSMUSG00000045658	168.5041749	2.994596965	0.336812163	8.891000081	6.06E-19	4.41E-17
ENSMUSG00000058427	85.69776447	3.012786164	0.469281312	6.4200003	1.36E-10	4.05E-09
ENSMUSG00000115647	6.041857692	3.026437773	1.412674482	2.142346175	0.032165636	0.108242922
ENSMUSG00000096574	7.269709977	3.029892853	1.107337343	2.736196763	0.006215385	0.029573138
ENSMUSG00000025004	4.49355546	3.035088942	1.292136225	2.348892388	0.018829348	0.071070726
ENSMUSG00000103349	8.754108647	3.037449046	1.080604344	2.810879914	0.004940622	0.024615911
ENSMUSG00000026822	747.7796349	3.042000401	0.689138385	4.414208333	1.01E-05	0.000120435
ENSMUSG00000089957	45.88686414	3.046214543	0.472976056	6.440525903	1.19E-10	3.57E-09
ENSMUSG00000044548	615.4990809	3.060895986	0.201453305	15.19407185	3.87E-52	1.84E-49
ENSMUSG00000013415	7.577392972	3.063581223	1.050477398	2.916370431	0.003541298	0.018741915
ENSMUSG00000029369	382.9428488	3.068956494	0.25705964	11.93869442	7.44E-33	1.49E-30
ENSMUSG00000034258	127.4200525	3.07622532	0.393217364	7.823218405	5.15E-15	2.59E-13
ENSMUSG00000053054	8962.662093	3.098081067	0.177792453	17.4252676	5.31E-68	4.55E-65
ENSMUSG00000035916	34.69571919	3.109615587	0.526613082	5.904934178	3.53E-09	8.54E-08
ENSMUSG00000093563	5.035738589	3.114017805	1.359420993	2.290694216	0.021981105	0.080321257

ENSMUSG00000063683	4.541058975	3.117903238	1.388966356	2.244765126	0.024783215	0.088431868
ENSMUSG00000012428	314.9470561	3.124688197	0.669003951	4.670657315	3.00E-06	4.06E-05
ENSMUSG00000075015	6.237638518	3.130909513	1.228889326	2.547755479	0.010841843	0.046256734
ENSMUSG00000104291	6.552879288	3.143668088	1.158310367	2.714011873	0.006647378	0.031274934
ENSMUSG00000021228	14.18413578	3.145262701	0.771479864	4.076921314	4.56E-05	0.000463657
ENSMUSG00000085068	31.58906175	3.151827202	0.587207977	5.367480224	7.98E-08	1.54E-06
ENSMUSG00000074892	338.0144952	3.158109261	0.873893273	3.613838622	0.000301697	0.002401193
ENSMUSG00000013653	303.5019023	3.15840635	0.259215501	12.18448103	3.76E-34	8.47E-32
ENSMUSG00000017765	57.17326137	3.178942356	0.400664186	7.934181464	2.12E-15	1.11E-13
ENSMUSG00000034764	62.64429815	3.182778663	0.411186416	7.7404762	9.90E-15	4.84E-13
ENSMUSG00000097762	12.01445788	3.200556777	0.982411811	3.257856574	0.001122571	0.007317878
ENSMUSG00000101189	12.07384641	3.205075753	0.880472977	3.64017504	0.000272453	0.002191908
ENSMUSG00000025909	10.09385912	3.207302994	0.954622104	3.35976192	0.000780097	0.005374401
ENSMUSG00000113798	10.10910842	3.215600291	0.92104286	3.491260213	0.000480748	0.003585566
ENSMUSG00000096488	4.958069266	3.226079281	1.360700583	2.370895789	0.017745034	0.067808772
ENSMUSG00000047414	8.335542455	3.239430179	1.216930091	2.661969001	0.007768503	0.035522943
ENSMUSG00000020333	494.6984053	3.244956492	0.280646953	11.56241483	6.39E-31	1.18E-28
ENSMUSG00000019888	176.0785805	3.248547102	0.256731838	12.6534641	1.07E-36	2.65E-34
ENSMUSG00000098915	30.89459255	3.249490162	0.89182239	3.643651695	0.000268797	0.002164059
ENSMUSG00000021539	805.3983347	3.252892745	0.233891333	13.90770964	5.69E-44	2.05E-41
ENSMUSG00000085180	38.49415184	3.256621613	0.524783787	6.205644486	5.45E-10	1.47E-08
ENSMUSG00000022705	14.42360947	3.280211337	0.824624258	3.977825422	6.95E-05	0.000670557
ENSMUSG00000032204	20.85976281	3.290768422	0.638399322	5.154717917	2.54E-07	4.37E-06
ENSMUSG00000031298	150.7442501	3.305343888	0.398411563	8.296305125	1.07E-16	6.22E-15
ENSMUSG00000104363	10.76007848	3.310591514	0.91321803	3.625192895	0.000288746	0.002309656
ENSMUSG00000034295	39.06602167	3.31598874	0.487221153	6.805921128	1.00E-11	3.44E-10
ENSMUSG00000029602	176.6028415	3.321769235	0.367419808	9.040800638	1.56E-19	1.20E-17
ENSMUSG00000107198	19.77703697	3.329126653	0.666881258	4.99208309	5.97E-07	9.37E-06
ENSMUSG00000030226	363.0749649	3.348126366	0.249224101	13.43419979	3.81E-41	1.25E-38

ENSMUSG00000106352	27.24740036	3.353164293	0.626909681	5.348719912	8.86E-08	1.68E-06
ENSMUSG00000031253	7.403126676	3.356351096	1.12116604	2.993625365	0.002756842	0.015357751
ENSMUSG00000032808	21.77031084	3.376344933	0.795491722	4.244349553	2.19E-05	0.00023991
ENSMUSG00000035472	37.48524231	3.391181597	0.564989968	6.002197896	1.95E-09	4.88E-08
ENSMUSG00000097339	159.4875578	3.410994005	0.304517242	11.20131648	4.02E-29	6.54E-27
ENSMUSG00000110654	7.455311568	3.427856193	1.095548754	3.128894247	0.001754654	0.01056209
ENSMUSG00000100009	3.769286364	3.434572297	1.628938505	2.108472656	0.034990126	0.115414986
ENSMUSG00000055653	134.1041583	3.459775449	0.709391796	4.877101012	1.08E-06	1.61E-05
ENSMUSG00000038917	180.022174	3.462533324	0.264311955	13.10017673	3.28E-39	9.77E-37
ENSMUSG00000112831	213.2135482	3.476307857	0.338521804	10.2690811	9.71E-25	1.14E-22
ENSMUSG00000087389	5.778678524	3.483696451	1.239208875	2.811226196	0.004935308	0.024600424
ENSMUSG00000100237	15.55915933	3.487489247	0.802506556	4.345745493	1.39E-05	0.000160386
ENSMUSG00000107451	5.821426575	3.506531677	1.285866827	2.726978878	0.006391713	0.030263608
ENSMUSG00000026614	984.4184986	3.506709102	0.516596497	6.788100818	1.14E-11	3.88E-10
ENSMUSG00000106478	4.274909518	3.515547571	1.485258723	2.366959719	0.017934885	0.068428719
ENSMUSG00000029522	66.638471	3.520091473	0.40954062	8.595219383	8.31E-18	5.57E-16
ENSMUSG00000086353	9.935405549	3.522277936	0.982201977	3.586103488	0.000335656	0.002632018
ENSMUSG00000018340	998.5264931	3.530398475	0.163286325	21.62090715	1.14E-103	2.83E-100
ENSMUSG00000060044	24.49146145	3.538258023	0.672793693	5.259053496	1.45E-07	2.63E-06
ENSMUSG00000091639	206.7573728	3.552977547	0.30018986	11.83576803	2.55E-32	5.08E-30
ENSMUSG00000071716	87.5444964	3.560061019	0.385427132	9.236664268	2.54E-20	2.10E-18
ENSMUSG00000111378	4.442329665	3.562872077	1.605145811	2.219656341	0.026442105	0.093070808
ENSMUSG00000023868	16.8541276	3.5844224	0.734385532	4.880845607	1.06E-06	1.58E-05
ENSMUSG00000032796	11.07159697	3.591640447	0.998463959	3.597165841	0.000321703	0.002535987
ENSMUSG00000106526	36.45585725	3.594550912	0.535782762	6.708970806	1.96E-11	6.50E-10
ENSMUSG00000087201	10.96020113	3.601221107	1.059787703	3.398058966	0.000678658	0.004794029
ENSMUSG00000068341	15.79195719	3.666384471	0.820446725	4.468766051	7.87E-06	9.62E-05
ENSMUSG00000111429	4.378652146	3.670564075	1.443944001	2.542040461	0.011020741	0.046814011
ENSMUSG00000095134	52.89602135	3.693585623	0.697519518	5.295315083	1.19E-07	2.20E-06

ENSMUSG00000071042	49.54168218	3.753433833	0.493280173	7.609131758	2.76E-14	1.27E-12
ENSMUSG00000105762	36.59970003	3.765448752	0.600469778	6.270838086	3.59E-10	1.00E-08
ENSMUSG00000114547	284.6853464	3.783642957	0.305368988	12.39039689	2.95E-35	6.92E-33
ENSMUSG00000015401	148.2329768	3.813691305	0.331349866	11.50956044	1.18E-30	2.16E-28
ENSMUSG00000029700	2139.800296	3.815389043	0.141370713	26.98853926	2.01E-160	1.50E-156
ENSMUSG00000099974	4.941504489	3.84480739	1.480303504	2.597310199	0.009395703	0.041325549
ENSMUSG00000109084	38.04499119	3.864164451	0.51389984	7.519294911	5.51E-14	2.46E-12
ENSMUSG00000048473	1490.293737	3.889330801	0.145799096	26.67595961	8.95E-157	4.99E-153
ENSMUSG00000040808	3654.197894	3.904271509	0.489827499	7.970707077	1.58E-15	8.40E-14
ENSMUSG00000029661	23.67655739	3.916063031	0.690412826	5.672060084	1.41E-08	3.07E-07
ENSMUSG00000038704	18.33499491	3.917391903	1.091620316	3.588602965	0.000332455	0.00260967
ENSMUSG00000097837	5.115658734	3.927432327	1.443280509	2.721184346	0.006504848	0.030706722
ENSMUSG00000025002	1666.719948	3.934886278	0.225609386	17.4411462	4.02E-68	3.59E-65
ENSMUSG00000019893	3075.743441	3.968402441	0.217576954	18.23907531	2.53E-74	3.76E-71
ENSMUSG00000105184	10.81283181	3.993338296	0.993931321	4.017720554	5.88E-05	0.000577055
ENSMUSG00000070690	12.33992042	4.078460773	1.113053263	3.664209888	0.000248103	0.002017117
ENSMUSG00000110055	5.965103793	4.105421463	1.410440848	2.910736362	0.003605781	0.018992094
ENSMUSG00000092465	8.942558783	4.132587391	1.163648872	3.551404112	0.000383182	0.002949718
ENSMUSG00000054005	15.85579321	4.159896623	0.876232516	4.747480318	2.06E-06	2.89E-05
ENSMUSG00000026365	12.4753013	4.215654334	1.089534273	3.869225997	0.000109181	0.000988974
ENSMUSG00000089694	6.65781035	4.221798452	1.366586941	3.089301036	0.00200628	0.011824011
ENSMUSG00000110353	7.125361303	4.328674822	1.317282644	3.286063807	0.00101598	0.006733245
ENSMUSG00000054417	18.2764192	4.349869836	0.922926724	4.71312589	2.44E-06	3.37E-05
ENSMUSG00000105296	127.3166254	4.39031704	0.451435307	9.725240732	2.35E-22	2.30E-20
ENSMUSG00000071356	72350.83583	4.454012652	1.098427769	4.054898079	5.02E-05	0.000503844
ENSMUSG00000030017	102855.242	4.464544731	0.822816169	5.425932184	5.77E-08	1.13E-06
ENSMUSG00000088854	4.189302885	4.523541309	1.611025585	2.807864351	0.004987123	0.024781156
ENSMUSG00000028883	68.75021082	4.575354569	0.494503364	9.252423548	2.19E-20	1.82E-18
ENSMUSG00000107092	221.5688632	4.584278534	0.316307234	14.49311949	1.34E-47	5.33E-45

ENSMUSG00000026824	190.6323882	4.601421093	0.341954784	13.45622669	2.83E-41	9.56E-39
ENSMUSG00000054580	106.9711339	4.612526341	0.431648207	10.68584618	1.19E-26	1.56E-24
ENSMUSG00000042816	8.792105462	4.648240766	1.308447446	3.552485642	0.00038161	0.002940664
ENSMUSG00000113407	21.3305368	4.676887264	0.831598744	5.623971051	1.87E-08	3.97E-07
ENSMUSG00000089675	8.727331193	4.701943804	1.31615388	3.572487895	0.000353606	0.002752448
ENSMUSG00000104664	118.4804981	4.719101952	0.436526796	10.81056648	3.07E-27	4.17E-25
ENSMUSG00000004110	8.884337117	4.730150245	1.340083732	3.529742309	0.000415965	0.003172513
ENSMUSG00000032099	27.64211045	4.796523862	0.831812615	5.76635143	8.10E-09	1.84E-07
ENSMUSG00000091894	5.171940894	4.839261731	1.522803187	3.177864201	0.001483642	0.009185648
ENSMUSG00000091694	5.280619626	4.872227212	1.542257369	3.15915314	0.001582283	0.009715446
ENSMUSG00000001870	15.79154036	4.947985958	1.013267073	4.883200184	1.04E-06	1.56E-05
ENSMUSG00000004814	58.38233218	4.95856373	0.589055825	8.417816311	3.84E-17	2.40E-15
ENSMUSG00000102698	10.54468398	4.988919828	1.347897446	3.701260687	0.000214531	0.001783173
ENSMUSG00000032289	1418.855251	4.994936705	0.693925267	7.198090259	6.11E-13	2.44E-11
ENSMUSG00000079055	62.9778844	5.07703369	1.767164959	2.872982324	0.004066169	0.02096568
ENSMUSG00000106397	270.0492316	5.109882482	0.354020167	14.43387398	3.17E-47	1.24E-44
ENSMUSG00000028864	146.4931207	5.209846723	1.094103704	4.761748548	1.92E-06	2.72E-05
ENSMUSG00000020062	2410.803436	5.293384324	0.178711561	29.61970838	8.33E-193	1.86E-188
ENSMUSG00000052726	59.80515308	5.334022991	0.598625081	8.910456908	5.08E-19	3.74E-17
ENSMUSG00000027902	81.59171178	5.362711858	0.502276935	10.67680295	1.31E-26	1.68E-24
ENSMUSG00000021758	3.832822371	5.413468845	1.698141777	3.187878019	0.00143321	0.008925443
ENSMUSG00000105086	3.943902319	5.449682846	1.671691976	3.259980262	0.0011142	0.007278198
ENSMUSG00000032841	383.8711142	5.735495817	0.602490814	9.519640279	1.74E-21	1.61E-19
ENSMUSG00000113174	4.866729223	5.756774546	1.564739423	3.679062764	0.000234093	0.001920007
ENSMUSG00000016150	56.82368853	5.83767639	0.666181445	8.762892506	1.90E-18	1.34E-16
ENSMUSG00000043556	61.2433394	5.89055374	1.197519734	4.918961728	8.70E-07	1.33E-05
ENSMUSG00000029371	20.08433058	5.938829982	1.143403264	5.193994251	2.06E-07	3.62E-06
ENSMUSG00000113332	5.721197169	5.989618187	1.518973838	3.943200361	8.04E-05	0.000760082
ENSMUSG00000097940	5.838953009	6.02060346	1.529956483	3.935146866	8.31E-05	0.000782534

ENSMUSG00000113646	6.019194183	6.063897183	1.527949517	3.968650217	7.23E-05	0.000693903
ENSMUSG00000059654	36193.22533	6.084203601	0.503667825	12.07979405	1.35E-33	2.98E-31
ENSMUSG00000106303	47.00134603	6.137893064	0.827040462	7.421514845	1.16E-13	4.93E-12
ENSMUSG00000115381	6.433877346	6.161674888	1.593382988	3.86703946	0.000110165	0.000996066
ENSMUSG00000113344	13.26802589	6.224405439	1.351723596	4.604791585	4.13E-06	5.45E-05
ENSMUSG00000042540	38.9624666	6.316274629	0.984682926	6.414526406	1.41E-10	4.19E-09
ENSMUSG00000027716	114.7186765	6.427612528	0.580806092	11.06670989	1.82E-28	2.76E-26
ENSMUSG00000027048	8.461365686	6.553344748	1.430392841	4.581499964	4.62E-06	6.01E-05
ENSMUSG00000115724	8.47953108	6.56083807	1.553286581	4.223842625	2.40E-05	0.000259751
ENSMUSG00000113411	9.166840713	6.671438247	1.405607592	4.746302087	2.07E-06	2.91E-05
ENSMUSG00000031554	10.69473875	6.89537612	1.42076548	4.853282415	1.21E-06	1.80E-05
ENSMUSG00000060371	11.72863443	7.023889542	1.393994303	5.038678801	4.69E-07	7.60E-06
ENSMUSG00000113036	64.07690998	7.040848753	0.946079111	7.442135304	9.91E-14	4.28E-12
ENSMUSG00000079014	15.35130857	7.409970182	1.425019314	5.199908596	1.99E-07	3.52E-06
ENSMUSG00000111065	19.04955391	7.723365789	1.305386574	5.916535336	3.29E-09	7.98E-08
ENSMUSG00000093846	82.69335678	8.877464447	1.23575199	7.18385608	6.78E-13	2.68E-11

symbol  
Gm28049  
3632451O06Rik  
Gm26661  
Plxnb3  
NA  
Olfr49  
Gm10044  
St6galnac1  
Gm7682  
Ocm  
Cyp2w1  
NA  
Bsx  
Fabp6  
NA  
Lrrc17  
NA  
Dntt  
NA  
Rln3  
Krt32  
Gm9034  
4930533D04Rik  
4933424L21Rik  
Gm11670  
Gm13068  
Trcg1



Gm15921  
1700096J18Rik  
NA  
Gja1  
Gm17800  
Sfrp5  
Gm14206  
Gm16726  
NA  
Pnp  
Prelp  
Optc  
Gm3636  
Olfr750  
NA  
NA  
NA  
Klk1b5  
Hao  
Ptpv  
Golga7b  
Olfr539  
Faim2  
Gm12589  
Olfr1371  
Gm16183  
NA  
NA  
Eng

Gm13015  
Casp14  
Gm28382  
Gm13216  
Rbp7  
Gm7534  
Krt17  
Impg1  
Fgf22  
Rbpsuh-rs3  
1700012B09Rik  
Nhlrc4  
NA  
NA  
Kcnf1  
Wnt2b  
NA  
Hsd17b14  
NA  
Wnt4  
NA  
Sema7a  
Gm11668  
n-R5s74  
5430421N21Rik  
NA  
NA  
Gm12412  
Gm9568

NA  
Cyp2e1  
Hpse  
Cyp2d9  
Gm27217  
Spaca4  
Gm16120  
Gm12349  
Atp6v0d2  
Rptoros  
NA  
Ranbp3l  
Gjb3  
Catip  
NA  
4930535L15Rik  
Lfng  
Grin2c  
Gm13362  
NA  
Fam115e  
Angpt2  
Krt79  
4933402P03Rik  
Gp1bb  
Gm15318  
Pnma2  
Gm12163  
Kif26a

Gpr156  
Ffar1  
Krt42  
NA  
Wfdc1  
Sap30bpos  
Klk1b4  
Rnf183  
NA  
Efna3  
Sorcs2  
Ren1  
Elfn2  
Kcne3  
Dmpk  
Phgr1  
NA  
Edar  
Rnase12  
Lgals7  
Gm15381  
NA  
RP23-127L4.1  
Pnp2  
Osm  
Gm16175  
Pitpnm3  
Gm14198  
NA

Cfd  
NA  
RP24-372I24.3  
Avpr1b  
Rnf150  
NA  
NA  
Psmb11  
NA  
Prss32  
Krt86  
Pnmt  
Slc44a2  
Fstl4  
Tppp2  
Actl11  
Hsd3b2  
Sit1  
Gm14799  
NA  
NA  
Gm26600  
L1cam  
Gm20530  
Vstm2l  
Gm6166  
Gm11739  
Gm18970  
3110053B16Rik

NA  
Lamb3  
Gm13055  
Plch2  
Ston1  
4933426K07Rik  
Gm26568  
Ttll6  
Adcyap1r1  
Gm16194  
Gpr37l1  
Pnmal1  
Aspg  
NA  
NA  
Sec1  
Gm26761  
1700023L04Rik  
Krt4  
Stx1b  
Myt1l  
Llph-ps1  
Cacna1a  
NA  
Bfsp1  
Irx4  
Krt83  
Dchs1  
Gm5405

Cemip  
Foxn1  
Nmur1  
RP24-272N10.4  
NA  
NA  
NA  
Oprd1  
Gm12312  
4833413E03Rik  
NA  
NA  
Ermap  
NA  
Zp3  
Adamts16  
4921536K21Rik  
Paqr5  
Zfp831  
Mapk8ip2  
Hr  
Hba-a1  
Best4-ps  
Map6  
Fabp3  
Smpd3  
1700011A15Rik  
NA  
Dclk2

Gm10109

NA

Lgals12

Gm11978

Krt35

Gm17322

Zfp541

Neurod2

Fkbp10

Gm6361

Gm24149

RP23-211F21.3

5-Sep

NA

Gm136

Th

Tcf23

Eras

Gm12397

Gm15998

B4galnt4

NA

Foxp3

Fgfbp1

Prkag2os2

NA

Rapgef1

4933434M16Rik

Gm15495



Clic3  
Ntn4  
Kctd17  
NA  
1600015I10Rik  
Gm498  
Fam83e  
NA  
Hrh3  
NA  
Pla2g10os  
Mroh4  
Mir1983  
Gpr162  
Dpysl5  
Gm18859  
Gm26888  
Serpinf1  
9430041J12Rik  
Pthlh  
Pdgfrb  
Col17a1  
NA  
Scn2b  
Gm8213  
Gm26849  
Gm15707  
NA  
Disp2

Gm26728  
Gm16287  
Mir203  
NA  
NA  
Gm8810  
Crispld2  
Prkag3  
Zp2  
Slc16a8  
Gm11766  
Spata20  
Orai2  
NA  
Cyp11a1  
Fam71e2  
Gm6086  
Gm26647  
Afap1l2  
Xpnpep2  
Cpsf4l  
Hrasls5  
Mir181c  
Gm10478  
Kif12  
Gm11789  
Acss1  
Kcnn4  
Gm5353

4731419I09Rik

Foxh1

Elane

Wnt6

Plxdc1

Prss39

Slc6a7

Myl7

Gm8618

Cd248

Armc12

Krt7

Tcap

Lpcat2

Spon2

Hsd3b3

Slfn14

Gm12308

Rab44

Gm11723

RP24-443M8.1

Gm15915

Acap1

Grm4

Arhgef4

NA

Gm8281

Trp73

Slc28a3

1700128E19Rik

Krt36

Celf5

Dsc3

Gm10702

Gm11694

Krt13

Cdx1

Krt78

Gm8062

NA

Gm13645

Cyp4a32

Cd4

Trim46

Rragd

Gpr132

Arg1

Gm14299

Gm19557

Mylk2

Sh3rf2

NA

Ctsw

NA

Slc4a1

Hsd11b2

NA

Wnk2

Dnah8  
NA  
Gm16275  
Gna15  
Ambp  
Gm13250  
Wee2  
Lrrc75aos1  
NA  
Il17f  
Aoc1  
Fam183b  
Pmp22  
Ankrd35  
Rcn3  
Capn13  
Ascl2  
Gm26812  
Stmnd1  
Cox4i2  
Gm2a  
Plb1  
Fam178b  
Atp6v1b1  
Efna4  
Atp1a2  
Gm5815  
Gm20694  
Gm15947

Alpl2  
Baiap2l2  
Gm5633  
Arhgap27os3  
RP23-448H3.2  
Fgf1  
Gm10629  
Sdr16c5  
B230344G16Rik  
Kcnh8  
Gm830  
4930421P07Rik  
Gm15770  
Fam151a  
Spem1  
Dusp18  
Il27ra  
NA  
Slc27a6  
Gm13066  
G430095P16Rik  
Hoxa1  
Myh3  
Stac  
NA  
Gm11471  
Gm1123  
Efcab1  
Ramp3

Aldh3b2  
Phldb1  
Mir6352  
Frrs1l  
Gm933  
Slc17a2  
NA  
Gipr  
Gm12618  
1700097N02Rik  
Tead2  
Lypd1  
Gm17197  
Nid2  
A430105I19Rik  
Gm13074  
Fancd2os  
Miat  
NA  
Chst2  
Snx31  
Capn11  
Slc9c1  
C5ar1  
Nxf7  
Dok7  
NA  
Arx  
Apobec2

Tmem151b  
NA  
Fam129b  
Ppfibp2  
5730419F03Rik  
4932431P20Rik  
Rusc2  
NA  
E130215H24Rik  
Prap1  
Gm12678  
Adcy1  
Gas7  
Npb  
Gm17111  
Lrrc23  
Hemgn  
Vwa2  
Oxct2b  
Nanos3  
Nrl  
Mnx1  
Mycn  
NA  
NA  
NA  
Gm19461  
Trp53i11  
P2rx6



Krt80  
Gm11951  
Il12rb1  
Vstm5  
NA  
Myo1a  
Jsrp1  
Lrrn4  
Tmem145  
Apbb1  
2500002B13Rik  
S1pr5  
Gm8292  
NA  
Ogdhl  
Avp  
RP24-372I24.2  
Mr1  
RP24-147K15.1  
Gm12860  
Tmem117  
Ccin  
Trpv2  
Camkv  
Nqo1  
Gm14225  
1700108N11Rik  
Fstl1  
RP23-44D10.1

Pom121l2  
F12  
NA  
2010109I03Rik  
Nmnat2  
NA  
Gm27228  
A230087F16Rik  
Olfr221  
Hcn4  
Gm29643  
Krt31  
Ankdd1b  
Cyp2s1  
Kremen2  
Rad21l  
Scamp5  
BC051537  
Mast1  
Mfrp  
Fam83c  
9930038B18Rik  
Bex1  
Pglyrp1  
Ggt6  
Scgn  
Cyp2d41-ps  
NA  
Myo1h

Ces1b  
Tbx10  
1700001K19Rik  
Gm11949  
E130218I03Rik  
NA  
Car4  
Ap3b2  
Cdcp2  
Notch3  
Tlr6  
Pax4  
9530053A07Rik  
5830432E09Rik  
Trex2  
NA  
Tnfrsf25  
NA  
Ankfn1  
Gm16104  
Wfdc3  
A830073O21Rik  
Gm14162  
Pde4c  
Col2a1  
NA  
Edn3  
Alms1-ps1  
Prss47

Muc20  
Mpp3  
Vwf  
Gm14549  
Pkdrej  
Gm15569  
Crlf1  
Cfap45  
Gm13750  
Mcoln2  
Gm28192  
Clip3  
Slc2a6  
NA  
Bmp8b  
NA  
Palm  
Snph  
Gm12494  
Gpr97  
Il17re  
Ldb3  
Rassf5  
4930407110Rik  
Snai2  
Ccnd1  
Plcd1  
Nrap  
Ccl25

4732414G09Rik  
Tspan15  
Slc34a3  
Nalcn  
Sema3g  
BC024139  
Pcyt1b  
Gm973  
Gm14401  
Gipc3  
Gm7290  
Rprml  
Efna2  
Gm17324  
Rfx6  
Cd101  
Celf3  
9530085P06Rik  
Gng4  
Rtn2  
Ppp1r14a  
Rasgef1a  
Ccdc108  
Vash1  
Dnah11  
Arhgef15  
Mapt  
1700086L19Rik  
Tnnc1

Nwd1  
1700054A03Rik  
Myt1  
Gm15585  
Gm20421  
Gm29367  
Abcc8  
RP23-366M16.1  
Gm26602  
Gpr50  
Mmel1  
Tsga10ip  
Phox2a  
Capn8  
Gm3468  
Hrc  
Btbd18  
Gm12630  
A930009A15Rik  
Lppr3  
RP23-81K14.2  
NA  
Grin1  
Spata31d1d  
Hes2  
Caskin1  
Insm1  
Cldn15  
Vmn1r188

Fbxo2  
NA  
Gprc5b  
Gm13412  
Fmn1  
Ppm1n  
Gm21989  
Gm26642  
Rcor2  
8430408G22Rik  
Palm3  
Pcolce  
Hpdl  
Slc2a13  
Ptafr  
NA  
F730311O21Rik  
NA  
Ppp1r27  
NA  
Gm26751  
Fbln2  
NA  
Foxj1  
Lmx1b  
NA  
Nbl1  
Car5a  
Egflam

Gpr152  
Krt15  
1500009L16Rik  
Hmha1  
NA  
Tppp  
A230083G16Rik  
Mapk15  
Gm28626  
NA  
Tssk2  
AI427809  
NA  
Fam71a  
NA  
Gm10435  
Pde6a  
Olfm4  
D430018E03Rik  
Tldc2  
Myh7b  
Tssk1  
Glipr2  
Slc2a4  
4933405L10Rik  
Npas4  
Gltpd2  
Fscn2  
Zfp125



Akp-ps1  
NA  
Hcn2  
NA  
Mst1r  
Gm15846  
Tmc3  
Cacnb3  
2010001K21Rik  
Aqp1  
Mir200b  
RP24-423J19.1  
Mospd4  
Tnxb  
Vwa5b2  
Kcnt1  
Hs6st2  
Ptpro  
RP23-169H13.6  
Cbs  
1700003D09Rik  
Neurog3  
Plcd4  
Gm1043  
Chrne  
NA  
Hk1os  
Wipf1  
Gm13387

Gm4969  
NA  
Gm14017  
Lrrc25  
Gm16198  
Scube1  
Tubb3  
NA  
Tekt5  
Lynx1  
Gjd3  
Fam132b  
1110028F18Rik  
Sqrnl  
Gm11620  
NA  
Fam213b  
Slc25a41  
Ano1  
Pi16  
Zfp575  
Gm15460  
Cdk5r2  
Dmkn  
Tas1r1  
Dner  
Gfra3  
Gm14508  
2200002D01Rik

Ephb3  
Ppp4r4  
A730020M07Rik  
Mycl  
NA  
Enpp7  
Sapcd1  
G0s2  
Sall2  
Sox21  
Adamts13  
Tomt  
Ubxn10  
Gm21885  
Slc16a5  
Shbg  
Acss2  
Sdc3  
C330022C24Rik  
NA  
Tst  
NA  
Mfng  
NA  
Tnfrsf14  
Gprin1  
Hipk4  
Tppp3  
Serpina9

Pcdh8  
Ido1  
Apc2  
Ccdc63  
Tmem44  
Gm11821

4-Mar

NA  
Prtn3  
Fev  
Snx22  
Perm1  
Mst1  
Rbm46  
Arhgap27os1  
Fzd3  
Vwa3b  
Cited4  
Gm13523  
Slc45a3  
S100a6  
Gm2830  
Ctrb1  
Sult2b1  
Sdk2  
Sarm1  
4933423P22Rik  
Gm19345  
NA

Gm8941  
NA  
Vsig8  
Hes5  
Sphk1  
Scrt1  
Adipoq  
Cd97  
Lipt2  
NA  
Spire2  
NA  
2310034G01Rik  
RP24-531A1.1  
Zg16  
Gm12402  
NA  
Rnf165  
Gm8801  
Tmem210  
Hspg2  
Myo1g  
Rsph1  
2410080I02Rik  
Gm11517  
Fcgbp  
Chst15  
Notch4  
Bcas1

Dusp27  
RP23-256D19.3  
Gm12592  
1700122O11Rik  
NA  
Gper1  
RP23-456B9.23  
Slc29a4  
Gsdma2  
Tff3  
Rundc3a  
Rimbp2  
Timp2  
Cfap70  
Pex5l  
Hist1h1t  
Tlx2  
Epdr1  
Gm12236  
Rsph9  
Unc80  
Kirrel2  
Gast  
1700055N04Rik  
Grin1os  
1700014D04Rik  
Camk1d  
Frem2  
NA

H2-Pb  
Pnpla1  
Eda2r  
Efcab8  
Gm13448  
Chrm1  
Jakmip1  
Kcnk16  
Myh11  
Cacna1b  
Mmp19  
A730036I17Rik  
Cnga4  
Epn3  
Ckm  
Bace2  
Ttbk1  
Baiap3  
NA  
4930432K21Rik  
Itih5  
BC048546  
NA  
Amotl1  
Fxyd6  
Atp2b4  
4933433C11Rik  
Tmem182  
Gm15718

BC048609  
Syng4  
Gm15972  
St6galnac4  
Lmx1a  
NA  
Cpne7  
Stkld1  
NA  
NA  
NA  
Sox11  
1700018B08Rik  
Slc12a3  
DII4  
NA  
Gck  
Gm29590  
Ddo  
Hapln3  
Abhd11os  
NA  
NA  
Matn4  
Noxo1  
Gm10284  
Dbn1  
Limch1  
Tbkbp1



Nkpd1  
Map1b  
Gm16343  
Plat  
Rbm24  
Cldn23  
NA  
Dgka  
Lyve1  
Rpl3l  
Gm14207  
Aim2  
RP23-398K14.4  
Bai1  
D630003M21Rik  
Cd164l2  
NA  
Gm11615  
NA  
5830416P10Rik  
Gm14387  
Olig1  
Axin2  
Scn3a  
Kcnb2  
Rab37  
Oxct2a  
Slc39a2  
E230001N04Rik

NA  
Ryr1  
Def6  
Rpsa-ps12  
Scml4  
Trpa1  
Gm12424  
Mapk13  
Lyl1  
Kcnh3  
Cd79b  
Vgf  
Gsn  
Phlda3  
Dhh  
Pak3  
Rhof  
Pspn  
Ghrl  
Ppp1r1b  
Trim17  
Jdp2  
Syng1  
Chgb  
Ntrk2  
9330171B17Rik  
NA  
Obscn  
Gm11788

Mslnl  
Sema4c  
Clcn2  
Pgc  
Gm29290  
Gm3336  
Chst4  
Isl1  
Cplx2  
Syng3  
Gm20748  
1700001L05Rik  
Adam8  
A630014C17Rik  
Cndp1  
2810408A11Rik  
Neurod1  
Sphkap  
RP23-132N23.22  
Rnf144b  
Nfe2l3  
Usp35  
NA  
Rpl31-ps6  
2610028H24Rik  
Grm2  
Nkx2-2  
Lcp1  
Fer1l6

D030047H15Rik

Tmem235

Fras1

Irs3

NA

Kcnk10

Wnt9b

Dnaaf1

Fstl3

Adam15

NA

NA

Cacna1h

Afp

NA

Gm11735

Pkp1

Pcdh10

Gm28884

Gdpd5

Scml2

Mgat3

Trim10

Rec8

Kcnq1

NA

Bend5

Pla2g4a

Gm1631

Exoc3l2  
Cilp2  
Fabp5  
Cabyr  
Pla2g3  
Nynrin  
Acta1  
Gdap1l1  
Sh3pxd2a  
Hspa12a  
Il21r  
Klhdc7b  
NA  
Fbxo24  
1700019B03Rik  
Celsr1  
Rps24-ps3  
Nim1k  
Cdk14  
Slc29a1  
Ggn  
Gm26739  
NA  
Limk2  
Nos2  
NA  
BC018473  
Gm11489  
1810053B23Rik

Gm10080  
Al118078  
Gm27389  
Bsn  
Oit1  
Sesn3  
Abcg1  
Scg2  
A330009N23Rik  
Tnnc2  
Syt13  
Cryba2  
NA  
Tstd1  
Bdh1  
Gm6283  
Gpr83  
Arhgap9  
Gm10575  
Clstn1  
NA  
Arhgef10  
RP23-160G19.9  
Ern2  
Klhdc7a  
Gpc2  
Gm11724  
Slc51a  
Gpr35

Atp6v0e2  
Duox1  
RP24-144H23.5  
Ecscr  
Gm12470  
Acer1  
NA  
Tinagl1  
Epha4  
Gm26541  
Ltbp4  
Paqr4  
Atcayos  
Gm6263  
Nptx2  
RP23-246H16.1  
RP23-128G10.6  
Nlrp6  
NA  
Prr19  
Gm6305  
9530036O11Rik  
Nrarp  
Gm10676  
Ptpn13  
Flnc  
Tmie  
RP23-320P13.1  
Clstn3

Uox  
NA  
Metrnl  
Foxa2  
Gm4978  
Gm4152  
Mycbpap  
Capn9  
Aldh1b1  
Dzip1  
Tmprss9  
Chst8  
Vim  
Rpgrip1  
Cerk  
Ncs1  
Gm15697  
Gm16863  
Gm27599  
Chadl  
Hunk  
Mesp2  
1700019D03Rik  
Kcnn1  
Lgals4  
Cbfa2t3  
Suox  
Gm15912  
Gm15638



Scg3  
RP23-27L18.4  
Anks6  
Bmp3  
Fsd1l  
Pla2g10  
Adprhl1  
Rpl22-ps1  
Shisa7  
Irak1bp1  
Gm26532  
Atp8b3  
Gm17552  
Nbeal2  
Lrrc8e  
Gm17040  
4930527J03Rik  
Dapk1  
Csad  
Extl1  
NA  
Agap2  
Muc1  
Mmp21  
Gm12704  
Dennd1c  
Slc25a29  
Ggt7  
Gm5069

Lrat  
Iffo2  
Lrp1  
Bcar1  
Mex3b  
Pip5kl1  
Cntnap1  
Mex3a  
Irf5  
Slc1a3  
Arhgap39  
Atp2a1  
Ppic  
Plk5  
Slc25a35  
Sdr9c7  
Syt11  
Fxyd3  
NA  
Sfn  
Rgs7bp  
RP23-415E17.1  
Slc38a8  
Gm28856  
Prph  
C1qtnf6  
Pxdn  
C2cd4c  
Dct

Dock3  
Ttll10  
Fosl1  
Ooep  
Atg9b  
Slc7a7  
Cux2  
Rhoq  
Gm5464  
Nacad  
2010107G12Rik  
Ckap4  
NA  
Mcf2l  
S100a16  
Gas6  
Gm12260  
Zc3h12c  
Lrp11  
Slc17a7  
NA  
NA  
Sned1  
Rangrf  
Slc5a10  
Plekhg5  
Syna  
Ltbp2  
RP24-64D24.3

Ephb2  
Nrip3  
Selenbp2  
Man1c1  
B930095G15Rik  
Scx  
Dennd2a  
Gnat2  
NA  
RP23-118E21.11  
Shisa2  
Leng9  
Slc35e4  
Gm12799  
Styk1  
Cant1  
RP23-407E2.27  
Rpp25  
Slc13a2  
Sv2c  
Dbil5  
Celsr3  
Fhad1  
Cdk6  
Pafah1b1-ps1  
Gm26707  
D130051D11Rik  
NA  
Ushbp1

NA  
Ybx2  
Pax8  
NA  
Fastkd5  
S100a14  
Car15  
Lhfpl2  
Pllp  
Mettl7b  
NA  
Ttl13  
Pdk2  
Mpst  
RP23-211F21.1  
Shc2  
Rnf32  
Misp  
Gcg  
Add3  
Gm10516  
Cobl  
Bbs1  
Vasp  
Necab3  
Cuedc1  
Cd9  
NA  
BC067074

Pappa2  
A530013C23Rik  
4930520004Rik  
Ankrd6  
Rap1gap  
Abi3  
Dio1  
Hhip12  
Cracr2a  
Klk1  
NA  
Dclk3  
Tsnaxip1  
1700001O22Rik  
Fam20c  
Ptpu  
NA  
Cisd3  
NA  
NA  
NA  
Gm11695  
Lzts1  
NA  
Arhgap27  
Rasgrp2  
Ier5l  
4930548H24Rik  
Lmtk3

RP23-280F6.6  
Qrich2  
Cyp4f40  
Dagla  
NA  
RP23-160G19.10  
BC049762  
Gale  
Rbm20  
Dact3  
Msantd3  
9030622O22Rik  
Prx  
NA  
NA  
1700088E04Rik  
Fam174b  
Colec11  
Dock6  
Gckr  
1700072G22Rik  
Fbxl18  
Agpat4  
Gfap  
Kctd21  
Paqr6  
Ky  
Gramd2  
Ptplad2

Grip2  
Myb  
Gm11525  
Msi1  
Spata33  
Tceal8  
Grin2d  
Chga  
Pmel  
Ptprcap  
Kcnh6  
Mybpc2  
Gm26571  
1700066B19Rik  
Pde1c  
Trim36  
Rnf208  
NA  
Als2cr12  
Creb3l1  
Amn  
Kiss1r  
5330417C22Rik  
RP23-124B2.3  
Ebf4  
4933439K11Rik  
Ghrhr  
NA  
Cck



RP23-371A16.2  
Ces1d  
Gm26858  
Ehd2  
Clmn  
Duox2  
Syk  
Lbp  
Was  
Nudt15  
Snai3  
Sh2d4a  
Gm12854  
F630040K05Rik  
Slc39a5  
9430025C20Rik  
Murc  
P2ry6  
Tspo2  
E230015B07Rik  
Zfp532  
Actl10  
Gm28720  
Gm16477  
4631405K08Rik  
Gpr55  
Gng7  
Ckmt1  
RP23-101N20.9

Slc1a1  
Dlg4  
Cpe  
Hist2h2bb  
Sycp2l  
Mir200a  
Comp  
RP23-1D15.3  
Robo3  
Slc26a1  
Bex2  
Il17c  
Cnn2  
Arl14  
Srl  
BC068157  
Itgb4  
Gm28386  
Parm1  
2410019O14Rik  
NA  
Gm12307  
Soga1  
Tspan33  
Trim47  
Ltf  
Cnnm4  
Apcdd1  
Tpsg1

D430040D24Rik

Pld4

NA

Hsd17b2

NA

Al854703

Ppp1r3e

Gm2420

Farp1

Ttc16

Tdrd12

NA

Rgs9

Gm10010

Gm13067

Klf1

Ass1

Pxylp1

Lama4

Lrrc31

Gm17029

Skida1

Gm26664

Cracr2b

Arfgap3

Adcy10

Fbp1

4932418E24Rik

Mettl7a1

NA  
Tmeff1  
Ankrd34a  
Mfsd4  
Daf2  
Nlrp1b  
Grtp1  
Gm14418  
NA  
Hes6  
NA  
Stk36  
Smoc2  
Gm15444  
Igfals  
Fam57a  
Gm13648  
Samd12  
Gm7860  
B3gnt8  
AW011738  
Trim69  
2010300C02Rik  
Snai1  
Adamts17  
Fhl2  
NA  
Tcam1  
Rpl31-ps10

D230017M19Rik  
Gpr153  
Gsto2  
Vpreb3  
RP24-566B6.4  
Fermt3  
Galnt12  
Arc  
BC021767  
Tiam1  
Slc4a11  
NA  
Unc13a  
RP23-282M20.1  
Gm10643  
NA  
Nckap5l  
NA  
Arrb1  
Kcnq4  
Gm10517  
Slc5a12  
NA  
Id1  
Cmtm3  
Zfp647  
Rsg1  
Gm15842  
Syn2

RP24-388P13.2  
Gm15743  
Gm26782  
Dnajc28  
Dapk2  
Dnah9  
2210406O10Rik  
NA  
1700003E16Rik  
NA  
Arhgap27os2  
Zfp92  
Relb  
Tdrd1  
Epb4.1l4b  
Zfp454  
Catsperd  
Gprc5a  
2310014L17Rik  
Hnf4a  
NA  
Gm20518  
Rasd2  
Pcdh17  
NA  
Cyp27a1  
Phyhd1  
Morn4  
Peg3

4833422M21Rik

Tbxa2r

NA

Cdnf

NA

Mfi2

Pclo

Pde8b

Gm26702

Abat

Spo11

NA

Cnga1

NA

Aire

Apom

Tox3

A630095N17Rik

Scarb2

Mypopos

BC048644

Zan

Gm12944

Gm20033

Stag3

Gpr56

D830044I16Rik

Sptbn2

Psd4

Slfn4  
Fut4  
Rap1gap2  
Pax6  
Mir194-2  
Ptges3l  
Smim6  
Fam115c  
Piwil2  
Lpxn  
Fgfbp3  
Tiam2  
Akna  
Rasa4  
Sec22c  
Emp3  
B930041F14Rik  
Faim3  
Gm26887  
Ddn  
Fank1  
Fbxl16  
Gm8355  
Mir3109  
NA  
Mgmt  
Mrgpre  
Wbscr25  
Nuak1



Slfn1  
Pmepa1os  
Dli1  
Tmem81  
Dgcr2  
Ttyh3  
Dsp  
RP24-366E11.2  
Rbm38  
Ptger1  
NA  
RP23-303M15.7  
Adcy4  
Gm11263  
RP23-469D21.2  
Mafa  
Fam46b  
Rab15  
Gm9887  
Als2cl  
Aqp4  
Tspan1  
Cbx2  
Creb3l4  
4921507P07Rik  
Atoh8  
Zbed5  
Grasp  
Gls2

Slco4a1  
Cep83os  
Hepacam2  
Kif27  
Ampd1  
Clec11a  
Gm14322  
Tln2  
Amh  
Nhlrc1  
Gm14403  
Dnah7b  
Vash2  
Tenc1  
Gm7420  
Tprn  
1520401A03Rik  
L3mbtl1  
Epb4.2  
Syp  
Iqck  
Prex1  
Adrbk2  
Slc7a2  
NA  
Iffo1  
Myh14  
Frat2  
Cap2

Ms4a8a  
Gm20457  
NA  
Clcn1  
Ssc5d  
Rwdd2a  
Kctd12b  
NA  
Megf6  
Tgfb1  
Esr1  
Mcam  
Tmem63a  
Glt1d1  
Pmm1  
Gjc2  
Ppp1r9b  
Slc23a3  
Cbx7  
Wnt9a  
Asrgl1  
Ret  
NA  
Nefm  
PCDHGB6  
Jup  
Hyal1  
Gm9493  
Ctnnb2nl

Fgf18  
Ivd  
RP23-21P10.1  
NA  
Gm14023  
Smtnl2  
Capsl  
Il11  
Abcg4  
Gm16433  
Ffar2  
C330021F23Rik  
Nupr1l  
Papln  
Fam109a  
Pfkml  
NA  
Dcst1  
Adra2a  
Srd5a1  
Mb21d1  
Mageh1  
Epb4.1l4a  
Klf3  
Sowaha  
Adck3  
5330439K02Rik  
Prickle1  
Mkrnl

Notch1  
Tnfrsf811  
Gm7027  
Mlxip  
NA  
Tph1  
Dand5  
2510009E07Rik  
Trim40  
Gip  
NA  
Kcnk6  
Gm15612  
NA  
Mmp28  
6430573F11Rik  
Frmd8os  
NA  
Tchh  
Pirt  
Man1b1  
Spdef  
Pla2g4b  
Izumo4  
NA  
Abcb6  
Mreg  
Cd247  
Gpr179

Otud1  
Urah  
Ovca2  
Evpl  
Fam189b  
Gnao1  
NA  
NA  
Gm8806  
Elf3  
Fgfr2  
Ovol1  
P2rx3  
Nr1i3  
Bcl2  
Tspear  
Map3k6  
Ablim1  
Dab2ip  
Slc37a1  
Abcc3  
Map3k15  
Tmem231  
Zswim3  
Nfix  
Gata5  
Gramd4  
Tor3a  
Ampd3

Fam115a  
Pdia5  
Tmem107  
Rab3d  
9430060I03Rik  
NA  
NA  
Bricd5  
Cpt1c  
Sash1  
Hid1  
NA  
Mus81  
Runx1t1

9-Mar

Acot11  
Usp2  
Gm15672  
Slc20a1  
Mylk  
Gm10614  
Lrrc8a  
Rtn4rl1  
Eml1  
Oscp1  
Gm9917  
Lrrn4cl  
Gm10812  
Rin1

Lrrc73  
Gm28496  
Cd177  
Ric3  
Gxylt2  
Ccdc141  
Gm13443  
Thbs3  
Ccb1  
Psm5  
Mcc  
Jag1  
Ptgr1  
Phyhip  
Fam71e1  
Kazald1  
Pim3  
Kif13a  
Bmp8a  
Lrrc51  
NA  
2610318N02Rik  
Gngt2  
Wnt11  
9130208D14Rik  
Rab3c  
NA  
Tcf3  
Plekhh3



Gm10501  
Tfap4  
Gm4204  
Spag8  
NA  
Kcnh2  
Ptpns  
NA  
Tac1  
Hdac11  
Abcc4  
Lgals9  
RP23-406J20.2  
Myc  
Gm29358  
Cebpb  
Uap111  
Tssk6  
Trim15  
Mfsd6l  
Parp1  
Hectd3  
Maats1  
Gm16576  
NA  
Atoh1  
Fam129c  
Krt8  
Usp43

Anxa7  
2900089D17Rik  
Dusp1  
Vsig10  
1700029J07Rik  
Lag3  
Rbbp8nl  
Gm15510  
Gm28512  
Capn5  
Ikbke  
Smim24  
9530027J09Rik  
Plbd1  
Impdh2  
Gm26710  
Rasd1  
B130034C11Rik  
Lbhd1  
Mgst2  
Camk2n2  
Rarg  
Tns4  
Igsf9b  
Tnfsf13os  
BC051142  
Psd  
Pgm2l1  
Tmem132a

Cxxc4  
Ift27  
Zak  
Ttc38  
Arhgdig  
Rnf26  
Guca2a  
Foxa3  
Ubxn11  
NA  
Gm5879  
Gpr3  
Lgr5  
Epb4.1l2  
Tmc8  
Txndc16  
4921531C22Rik  
Gadd45b  
NA  
Uggt2  
Pyroxd2  
Mbp  
Mgst3  
4930583K01Rik  
Slc22a4  
Poli  
Rxra  
Sema3b  
Dolpp1

9930012K11Rik  
4930427A07Rik  
Crip1  
E2f2  
Slfn9  
Numb1  
Ephx1  
Kcnk1  
5730559C18Rik  
Mmp23  
Gstm2  
Fzd5  
Adrb2  
Gm11545  
Prr7  
Gpd1l  
2310040G24Rik  
Nod1  
Nup210  
Al467606  
Klf13  
Lrrc26  
Vopp1  
Tcf7  
Rtkn2  
Gm12352  
Mapk3  
Gm15832  
C330011M18Rik

A130051J06Rik

NA

Erich2

Acy1

Ajuba

Tcea3

Dok3

Ppl

C2cd4b

Zdhhc14

Csrnp2

Gm9530

Mex3d

RP23-355E19.1

Tigd3

Plekhg1

Smarcd2

Duoxa2

Ttc39c

Prox1

Fry

Sema3f

Xrcc5

Amigo3

Plxnb1

Sdc1

Rara

Acvr1b

Ovgp1

Pitpnc1  
6430548M08Rik  
Hivep3  
Fam65a  
Tet1  
Kbtbd11  
Lpar5  
Unc5b  
Dyrk3  
Nmral1  
Gm16133  
Pygb  
Clca6  
Hpd  
Gm15210  
Gm26615  
Wdr31  
Mapkapk3  
Cntd1  
Camsap2  
Pdk1  
Hexim2  
B3gnt5  
Rnf157  
Glb1l  
Ppp1r14d  
Cpt2  
Marveld1  
Egfl8

Utp14a  
Deptor  
4930524O07Rik  
Chrb2  
Gtf2ird1  
Sipa1l2  
4933407K13Rik  
Stard13  
Pard6g  
Gk5  
Serpib6a  
Tmem177  
Gm10110  
Gm2223  
Dnaaf2  
Rab3a  
Arhgap24  
Dfna5  
Unc5a  
9130221H12Rik  
Zbtb38  
Galnt6  
Pdlim2  
Pmepa1  
Gid4  
Mvp  
Mir192  
Sox13  
Vangl1

Cyp4f15  
Plgrkt  
Traf4  
Tfdp2  
Nicn1  
Mcm10  
Kctd10  
Awat2  
Ppap2c  
9530082P21Rik  
Kdm2b  
Osbp10  
Map3k12  
Myo5c  
Prodh  
Gdpd3  
Il4ra  
NA  
Gzmm  
Cdt1  
Gm10269  
Ccdc96  
Cbx6  
Steap3  
Ncald  
Fbp2  
Lmna  
Nr2e3  
Plaur



Atp2c2  
Iqsec1  
Marcks1  
Hs6st1  
Glce  
Golm1  
1700067K01Rik  
Amdhd2  
Vwa7  
Gltscr2  
2810454H06Rik  
Gm11223  
Gm5428  
Tfrc  
Hyal3  
Gm10036  
Slc6a6  
Plekhh1  
Gm6288  
Slc5a5  
Gm15500  
Tnnt2  
Acsm3  
Lrch4  
Grb7  
Fhdc1  
NA  
Bcl7a  
Tmem218

Zfp41  
Syt7  
Ptgfrn  
Camk2n1  
Ccdc158  
Gpr112  
NA  
Mgat4a  
Lrrc20  
Angel1  
NA  
Aoc2  
Pomk  
Pck2  
Rem2  
St18  
Nfya  
Clca4  
Spef1  
Tle3  
Slc5a6  
Tmem63b  
Alkbh4  
Fam63a  
Irgm1  
Ppp1r13l  
Ttll7  
Ahnak  
RP23-294l17.4

Irf8  
Btbd19  
Coro2a  
Efnb3  
Cebpa  
Rpl28-ps1  
RP23-102K8.1  
4931428F04Rik  
Gpr157  
NA  
Nrep  
Cdca7  
Hspa4l  
NA  
Zfp46  
Chsy1  
Aph1b  
1700001P01Rik  
Fktn  
1600002K03Rik  
Gch1  
RP23-393C3.4  
Sox4  
Pdp2  
Idh2  
Fam173b  
Lrp5  
Gm11696  
Ifi30

Ypel1  
BC021891  
Map4k1  
Efhb  
Zfp12  
Bbs2  
Olfml2a  
E2f8  
Smo  
Map1a  
Ctsh  
Sapcd2  
Slc25a47  
Enpep  
Nck2  
Mdm1  
Rab32  
A930024N18Rik  
1110035H17Rik  
Itpkb  
RP24-201C14.12  
Cluap1  
Proser2  
Phkg1  
Dag1  
Tpbg  
Sdc4  
Rnf39  
Arrdc2

Pgbd1  
Oxa1l  
Paox  
Aacs  
NA  
Erb2  
6720489N17Rik  
Unc5cl  
Itga3  
Ppfia3  
Bin1  
Lrrc75aos2  
Pdp1  
Nt5c  
Cgn  
Prr15l  
Nfatc2  
Zfp558  
Sulf2  
Wars  
Pygm  
Rab27b  
Cela1  
Ptrh1  
Tmem167b  
Slc1a5  
Nek4  
Nat9  
Rpl4

Slc6a19  
5031439G07Rik  
Agap1  
Nfic  
Ovol2  
Eif4ebp2  
Ptk2b  
Mtrr  
Tmprss4  
Slc22a23  
Rgmb  
Fzd2  
Hk1  
Dcaf15  
Tubb2b  
Hic1  
Kif23  
Ano7  
9130017K11Rik  
NA  
Nap111  
Ets1  
1700112E06Rik  
Bcl2l1  
Zfp36l2  
Adap1  
Nav2  
Dars2  
NA

Rpl3-ps1  
NA  
Prmt5  
Zfp113  
Eef2  
Entpd8  
Fpgs  
Sema4d  
1700011E24Rik  
Zdhhc1  
Abcc1  
Fam83b  
Xxylt1  
Spata13  
Xpc  
Lrrc16b  
Gse1  
Hexim1  
Cyp39a1  
Ephb4  
Zfp661  
Pla2g15  
Prss41  
Tmem98  
Itpka  
Gm9396  
Ms4a10  
Esy1  
Mesdc2

Rps15-ps2  
Fam107b  
H3f3aos  
Zscan20  
Tmem102  
Gal3st2  
Cdh1  
Fam83d  
Rcl1  
1700016G22Rik  
Atmin  
Krt18  
Taf1c  
Sh3bgrl2  
E330009J07Rik  
Hspa2  
Lrfn4  
Surf2  
B3gnt3  
Obfc1  
Ctnnbip1  
Tpst1  
Tmem260  
Panx1  
Anxa11  
lpo5  
Ap4m1  
Emilin1  
Eef2k



Tert  
Tmem8b  
Baiap2  
Wdr34  
Card10  
Igbp1  
Cklf  
Bcl2l13  
Dock9  
Sipa1l1  
4930523C07Rik  
Dclre1b  
Avpi1  
Mrps31  
Sphk2  
Dpp7  
Lrrc8b  
Rdh13  
NA  
Dok4  
Tpcn1  
Gm12918  
Gan  
Abhd14a  
Gm14420  
Adora1  
Colgalt1  
Mfge8  
Ctsc

Ftsj3  
Hps4  
Cage1  
Traf3  
Wdhd1  
Gna12  
Pard6a  
Slc7a5  
Hs1bp3  
Lgals3bp  
Chtf8  
Dnal4  
Ctxn1  
Tmc4  
Pars2  
Tcf20  
Carhsp1  
Eif4b  
Esrp2  
Scd2  
Rbm15b  
Ninl  
AW209491  
Pard6b  
Acap3  
NA  
Gm15941  
NA  
Casp7

Nek6  
Lipt1  
NA  
Nrtn  
Card6  
Cluh  
Ppt2  
Slc35c1  
Gm6548  
Mroh3  
Pxmp2  
Zfp87  
Arhgap42  
Dffb  
Itfg3  
Cnm3  
Gm8430  
Rtkn  
NA  
Mrpl24  
Pold3  
Cdc42ep1  
Fn3krp  
Polr2a  
Krt19  
Bcs1l  
Zfp317  
Pabpc1  
Cyba

Fam160a2  
Rbak  
Acpp  
Gpld1  
Mpzl2  
NA  
Mfsd12  
Oxsm  
Acad12  
Zfp473  
Ide  
Peo1  
Cask  
Maoa  
Eef1g  
Gm3362  
Trim65  
2310067B10Rik  
Hsp90ab1  
Mcm3  
Plekhm3  
Myh9  
Zbtb7b  
Plxna2  
Elp3  
Vezf1  
Pogk  
D730003I15Rik  
Tmtc4

NA  
Mki67  
Fam102a  
Gm16023  
Hpcal1  
Bet1l  
Asnsd1  
Rpsa  
Kctd15  
Gltf  
Kdm1b  
Mgme1  
Sh3bp4  
1110008L16Rik  
Tmem206  
NA  
Pttg1ip  
Slk  
Msh6  
Lamb2  
Sun1  
Unc119b  
Esrp1  
Pak4  
Msh2  
Eif2b1  
Zfp341  
Whrn  
Klhl23

Glo1  
Mknk2  
Poc1a  
Htatsf1  
Psen1  
Zscan22  
Zbtb7a  
Zc3h12d  
RP24-297J20.6  
Casp2  
Ankrd49  
NA  
Ears2  
Zfp239  
NA  
Endod1  
Zyx  
Cep19  
Rep15  
Lgals3  
Rpusd2  
Lmln  
Rnf149  
Rrp1b  
Tpmt  
Wdr78  
Msrb1  
Smarcc1  
Ethe1

Rab11fip1  
9930014A18Rik  
Cd3eap  
Casz1  
Naif1  
Polr2b  
Cdr2l  
Zc3h7b  
Lrrc49  
Dpysl2  
Rnf169  
Gtf3c4  
Nans  
Zfp93  
Hdgf  
Map3k9  
Apmmap  
Pdha1  
Napepld  
Vav3  
Plec  
Lig1  
Cand2  
Dnajb5  
Zswim1  
Mlh3  
Cdc42ep5  
Hspa8  
Lrp4

AK129341  
Atic  
Mob3a  
Foxk1  
Rnf122  
Sec14l1  
Ankrd13b  
Sort1  
Plekha6  
Abr  
Gm10275  
Bcl11b  
NA  
Hirip3  
Rnf219  
Mylip  
A230072E10Rik  
Gm15417  
Ano8  
Plcg2  
Kazn  
Rnaseh2a  
D1Ert622e  
Gm8979  
Repin1  
Map4k4  
Gm10335  
lds  
Ftsj2



Ddit3  
Cryl1  
Igsf8  
2810408M09Rik  
Nolc1  
Tmem216  
D030028A08Rik  
Gpsm1  
Noc2l  
Tex14  
Agrn  
Mybl1  
Zfp629  
Ttc39a

8-Sep

Mpv17l  
Asap2  
Ascc2  
Plekhg2  
Zfr2  
Plce1  
Tjp3  
Zfp180  
Aplp1  
Cmtm4  
Polr1b  
Stmn1  
Tctn1  
Cdc6

Cpsf3  
Igf2r  
Myom1  
Ndufaf7  
Prelid2  
Pag1  
Hn1  
Lsm11  
Sox9  
B4galt6  
1700113A16Rik  
A930011G23Rik  
NA  
Slc25a37  
Desi2  
Ppargc1b  
Trmt5  
Cenpv  
Foxp4  
Ctif  
Zc3h10  
Sf3b2  
Vps26b  
Ece1  
Acadsb  
Ctdspl  
Fgfr3  
NA  
NA

Add1  
Phf19  
Zfp704  
Dnaja3  
Car9  
Cenpf  
Dexi  
Rprd1b  
Dnph1  
Cdc42ep4  
Knop1  
Nphp1  
Rtcb  
Rpl18-ps2  
RP24-372I24.4  
Chchd5  
F2rl1  
Zfp94  
Zfp664  
Tubb2a  
Brpf3  
Ndrp2  
Limk1  
Serhl  
Mecom  
Ppip5k2  
Naa60  
B3galt4  
Ick

Cep78  
Rpap3  
Itpk1  
Abca2  
Vipas39  
Armc10  
Phax  
Polr2h  
Pik3c2b  
Mettl8  
Tk2  
Tlcd1  
Lgals2  
Grsf1  
TIGD5  
Fuk  
BC030867  
Ccar2  
Rsad1  
Serp1  
Itga6  
Zfp637  
Chmp4c  
Arhgap8  
Xrcc3  
Haus4  
Cep162  
E2f1  
Zbtb14

Dna2  
Gabbp2  
Ift122  
Eif2a  
Igf1r  
Zfyve27  
Zbtb45  
Usp22  
Hus1  
Wdr13  
Mecr  
Armc7  
Fam168b  
Rpl3  
Gpr110  
Capn10  
Uprt  
Sco1  
Slc25a42  
Airn  
Agtrap  
Dlg5  
Dnmt1  
Gltscr1l  
Plxnb2  
Pramef8  
Polr1e  
Klf10  
Qars

Snrnp200  
Gart  
D930015E06Rik  
Liph  
Vamp1  
Fam64a  
Mthfr  
Ybey  
2610015P09Rik  
Slc25a25  
Pabpc4  
Upf1  
Pde4dip  
Bend3  
Tmcc3  
D2Wsu81e  
Gm15879

11-Sep

Rpsa-ps10  
Fam98b  
Strip1  
Wdr25  
Trim45  
Tab1  
Zbtb8a  
Mtif3  
Gm15772  
Sh3bp2  
Slc29a3

Reep6  
Crocc  
Plekha5  
Mllt11  
Tmc6  
Gemin8  
Specc1  
Sypl2  
Wdr77  
Metrn  
Vkorc1l1  
Dbt  
Pdzd3  
Chdh  
Sh3bp1  
Sel1l3  
Prpf8  
Nono  
Tns3  
Cgnl1  
Cln6  
Klf16  
Itsn1  
Txnip  
Degs2  
Sorl1  
Agmat  
Crtap  
Tmem123

Cby1  
Mars2  
Acad10  
Pigp  
Nudt8  
Acvr2b  
C2cd2  
Tmem194  
Ctu1  
Id2  
Gm15427  
Ccng1  
Nuak2  
Klc4  
Magi3  
Nol6  
Champ1  
Kif21a  
Jmjd6  
Prkrir  
Slc35b4  
Paip2b  
E130317F20Rik  
Poll  
Nkrf  
Nr2f2  
Ago1  
Pusl1  
Fntb



Cad  
1190002N15Rik  
Ddx19b  
Lmnb2  
Rin2  
Engase  
Lym7  
Greb1  
Pigh  
Ralgds  
Arhgap1  
Nelfcd  
Naa40  
Exog  
Nrpb2  
Tsen54  
Chp1  
Srpb  
Ubr7  
Gm15545  
2700060E02Rik  
Acad8  
Stard10  
Rqcd1  
Pex26  
Ccdc3  
Tb12  
Mcmbp  
Gm340

Isg2012  
Grk6  
Hbegf  
Synj2  
Zfp266  
Ift140  
Tfpi  
Med18  
Mybbp1a  
Ccdc134  
Rps27a-ps2  
Inpp4a  
Accs  
Gm14305  
Ubn1  
Enkd1  
Wdr46  
Ankrd9  
Serp8  
Mrpl44  
Pitrm1  
Tmem57  
Sp1  
Smug1  
Klh21  
Phf7  
Akap7  
Mlx  
Zfp54

Tpx2  
Nt5c2  
Zscan29  
Mcm4  
Fads3  
Serinc2  
Ubtf  
Vmac  
Aktip  
Tfeb  
Wbp5  
Sik1  
Pctp  
Timp3  
Zfp358  
Adcy6  
Thop1  
Pip5k1c  
Ceacam1  
Nedd9  
1810011O10Rik  
Timm21  
Ergic1  
Lrig1  
Mettl13  
Numa1  
NA  
Mis12  
Trmt10b

Mcm2  
Slc39a3  
Zkscan17  
Nr3c1  
B3gnt1  
Ddx24  
Lbr  
Naip1  
Gm7964  
BC017158  
Src  
Prdx3  
Ddx19a  
Mettl1  
Poglut1  
Nol4l  
Opa3  
Oxct1  
Pdxk  
Zfp956  
Shf  
Smox  
Plcb3  
Iqgap1  
Gdf15  
Zfp652  
Mcm6  
Lyplal1  
Mdc1

Slain1  
N4bp2  
Qtrtd1  
Pcyox1  
Kank1  
Cox19  
Camsap1  
Pomt1  
Slc44a1  
Trim28  
Zbtb1  
2010107G23Rik  
Prkcz  
Smpd4  
Nif3l1  
Slc35e1  
Fam120a  
Mmp14  
Ccdc61  
Cnst  
Asb8  
Zbtb39  
Tars2  
Akt1  
Pknox1  
Vars2  
Zfp740  
C2cd3  
Ucp2

Taco1  
Arhgef39  
Ing1  
A430005L14Rik  
Ncapd2  
Arrdc1  
Wdr36  
Mccc2  
Ccdc64  
Rps6-ps4  
Pdzd8  
Gm14295  
Iqgap3  
Uhrf1  
Smyd2  
Kif20a  
Entpd6  
Ldb1  
Uck2  
Pde3b  
Prkar2a  
ErbB3  
Shroom3  
Cldn3  
Noa1  
Helq  
Cyb5rl  
Rrm1  
Arvcf

Coro1c  
Fam98c  
Nln  
Eps8l3  
Banp  
Wdr5  
Tcf4  
Abhd2  
Supt16  
Nlr1  
Lima1  
5830417110Rik  
Kars  
Wasf2  
Mansc1  
Gga2  
Spint1  
Bend7  
Fam110a  
Mib2  
Aagab  
Gstz1  
Zfp821  
Pfas  
Rnmtl1  
Msh5  
Gna13  
Clip2  
Eif3d

Bzw1  
Rpl5  
Thns1  
Pisd  
Tufm  
Hsd1  
0610009O20Rik  
Qtrt1  
Bivm  
Qpct1  
Gpa33  
Ssrp1  
Il17rc  
Txndc5  
Rps4x  
Tubgcp2  
Nlrc4  
Ppp1r14b  
2900026A02Rik  
Cit  
Cdca7l  
Smarcd1  
Gtf2h3  
Tut1  
Csrp2  
Amz2  
Ctdsp2  
Baz1b  
Shmt1



Eef1b2  
Tmem171  
Dnajb1  
Ints5  
Surf1  
Exo5  
Gna11  
Bri3bp  
Pprc1  
Gorasp1  
Wdr73  
Nadsyn1  
Klhl18  
Gtpbp3  
Mapre2  
Gclc  
Ehf  
Aen  
Slc26a2  
N4bp1  
Pank3  
Eya3  
Gdpgp1  
C1qbp  
Trp53  
Mical2  
Rgs3  
Iqsec2  
Pias4

Exosc10  
Mxi1  
Rab25  
Sh3pxd2b  
Mical3  
Paics  
Polr3gl  
Nop14  
Arhgap35  
Dck  
Tssc4  
Acot7  
Pla2g16  
Fam168a  
Ctnna1  
Wbp11  
Rpl7  
Larp1  
Fam65b  
Sf3a1  
Ccbl2  
Zfp64  
Ctdp1  
Deaf1  
Efhd2  
Lrpprc  
Zfp553  
Csnk1e  
Rad21

Iqce  
Ripk3  
Rhobtb2  
Atxn3  
Slc30a4  
1700017B05Rik  
Hmga1  
Cux1  
Wipi1  
Zfp146  
Oxnad1  
Setd8  
Ice1  
Nme4  
N4bp3  
Pidd1  
Dcaf4  
Emc8  
Nfe2l1  
Dvl2  
Ddx39  
Sema5a  
Brca2  
2810402E24Rik  
Gtf3c5  
Cdc5l  
Snrk  
Rpl28  
Gjb2

Tsen2  
R3hdm4  
Inafm1  
Chtf18  
Mrps5

6-Sep

Ttc9c  
Gpsm2  
Marveld3  
Ppp1r8  
Rasa3  
Sptbn1  
Smarca4  
Slc8b1  
Golim4  
Zfp316  
Dhx33  
Sh3gl2  
Limd1  
Pes1  
Tor1b  
Ocel1  
Cyb5r3  
Atg14  
Pop1  
Pwp2  
Appl2  
Socs7  
Ninj1

Kbtbd8  
Hlcs  
Thoc5  
Gdpd1  
Ngfrap1  
Spg7  
Ctc1  
Zmiz2  
Tbccd1  
Gm2000  
Nup50  
Slc19a1  
Ptk7  
Rgs12  
Ankrd13a  
Fam206a  
Galnt4  
Snx7  
Frmd8  
Ttc3  
Fam53a  
Cox7a2l  
Actr1a  
Spata2  
AI464131  
Aaed1  
Eefsec  
Ccdc163  
Tuba4a

Vps37b  
Slc35a3  
Med22  
Mks1  
Slc48a1  
Cstf1  
Ubox5  
Ccdc117  
Dgkd  
Nifk  
Pelp1  
Gemin5  
Mut  
Pkp3  
Phyh  
Rnpepl1  
Plcg1  
Ppp2r5d  
Rps6  
Smarca2  
Lonp1  
Tmem51  
Ndufs2  
Ppm1f  
Rps27a  
Camta2  
Zfp668  
Zfp507  
Tmem79

Nsun2  
Trmt1  
Ncoa5  
Chmp6  
Rps3  
Zfp142  
Eif3l  
Tcf19  
Acy  
Pccb  
Exd2  
Mrm1  
Elac2  
1110012L19Rik  
Wipi2  
Btbd2  
Atp8a2  
Reep4  
Kdm5b  
Nop2  
Reps1  
Nfs1  
Ddx21  
1810026J23Rik  
Sepsecs  
Krr1  
Spp12b  
Sap30bp  
Tll12

Sdhb  
Serac1  
Ccdc181  
R3hcc1  
Npm3  
Uvssa  
2700062C07Rik  
Ttll4  
Nudt21  
Ints9  
Xpo5  
Ets2  
Aco1  
Hnrnpul1  
Poldip3  
Aar2  
Immt  
Ranbp10  
Celsr2  
Setdb1  
Tbrg1  
Lrpap1  
Eif3c  
Zfp777  
Smc1a  
Cntrob  
Smurf1  
Eif3m  
Scarna2



Syng2  
Ampd2  
Aqr  
Dclre1a  
Inafm2  
Suclg2  
Zfp65  
Fam83g  
Abhd11  
Ckap2l  
Epb4.1  
Rpl18a  
Akap1  
Fbxl19  
Pygo2  
Ruvbl2  
Dctd  
Tspan8  
Pkdcc  
Lrrc40  
Ppip5k1  
Irgq  
Nnt  
Amigo1  
Bcl9  
Zfp84  
Ctr9  
Ddb1  
Pdxdc1

Abcb8  
Snw1  
Rnf40  
Txnrd3  
Gfod2  
Dhodh  
Tex261  
Rrp7a  
Nacc2  
Cep89  
Stk38  
Cbfa2t2  
Bmp7  
Mzt2  
Cog1  
Hspa9  
Inpp1  
Pom121  
D17Wsu92e  
Map2k3  
Zfp446  
Grpel2  
Suv39h1  
Stard7  
Eif3b  
Ift52  
Vav2  
Mrps9  
Map3k4

Tmem186  
Zfp68  
Cdk5rap1  
Appbp2  
Tradd  
Hars2  
Imp4  
Elp2  
Gm608  
Ogfod1  
Zfp282  
Ddx27  
Cpped1  
Pcyox1l  
Wrap53  
Rbmxl1  
Luzp1  
Atad3a  
Fbxo31  
Cep152  
Thumpd1  
Naa10  
Rpl18  
Uqcrc2  
Ipo13  
Ccdc51  
Ube2o  
Flna  
Tbc1d8

Znhit2  
Letm1  
Wdr41  
Tmem181a  
Mapk7  
Coq2  
Ilf3  
Cecr5  
Rad9a  
Csrp2bp  
Cs  
Tmem109  
Bzw2  
Tfip11  
Ube3b  
Mpzl1  
Timm10  
Gatb  
Prkcd  
Ccdc57  
Rprd2  
Det1  
Ppp1r7  
Jmjd8  
Prepl  
Abhd17c  
Fam83h  
Bud13  
Zpr1

Zfand2b  
Simc1  
Prcc  
Ybx3  
Kctd20  
Fam192a  
Gss  
Gtf2ird2  
Rnpep  
Zfp462  
Ddx41  
Elof1  
Mesdc1  
Anp32b  
Ccnyl1  
Slc45a4  
Ubqln2  
Naa35  
Ndufa9  
Fam53c  
Rpl12  
Aph1a  
Vps33a  
Qdpr  
Tpd52  
Dsg2  
Cep104  
Psap  
Bccip

Cep250  
Sf3a3  
Myg1  
Rps7  
Flii  
Alyref  
Txnrd1  
Gpr180  
Pgm3  
Pms2  
Baz2a  
Setd3  
Rcbtb1  
Tsfm  
Lrrc47  
Poc1b  
Racgap1  
Fyco1  
Cpsf3l  
Fbf1  
Wdfy2  
Ppif  
Tcp1  
Fpgt  
Etfa  
Mast3  
Cdc42bpg  
Zcchc17  
Sestd1

Dhx32  
Cpt1a  
Heatr2  
Ctnnbl1  
1110004E09Rik  
Tk1  
Nfia  
Slc22a21  
Pbx1  
Diexf  
Cox10  
Sympk  
Rpl8  
Smc3  
Traf3ip1  
Dnmbp  
Ctcf  
Zcchc14  
Pml  
Polk  
Eftud2  
Dmap1  
Tom1l1  
Mrps2  
Slc12a7  
Nup188  
Bcl2l12  
Arid5b  
Rad23a

Rab8a  
Phtf2  
Ncoa6  
Gm15800  
Rfc1  
Pdlim1  
Irf6  
Brd2  
Tbc1d2  
Xrcc6  
Smim15  
Zfp422  
Zfp598  
Odc1  
Mcm7  
Fam86  
Rfng  
Ing5  
Xrcc1  
Tmpe  
Frmd4a  
Gga3  
Rps26  
Xab2  
Fasn  
Csnk1g2  
Mtmr3  
Ints3  
Ccgc91



Ddx49  
Atp9a  
Atp2a2  
Pik3r4  
Tnk2  
Zfp869  
Kat6a  
Nsun5  
Dhx8  
Wiz  
Trak1  
Cc2d1a  
Rpl26  
Lmnb1  
Drosha  
Gnb2l1  
Srek1ip1  
Cct5  
Parp2  
Cnot3  
Dnajc7  
Kat2a  
Coq4  
Calm3  
Lmtk2  
Endov  
Zfp646  
Tusc2  
Ipmk

Ercc2  
H13  
Eif2ak1  
Wibg  
Scap  
Ralbp1  
Las1l  
Rbm47  
Slc9a1  
Rad51d  
Grhl2  
Polr1c  
Enthd2  
Scaf1  
Ankrd11  
Timm50  
Ppp5c  
Scamp2  
Ogdh  
Txlna  
Cherp  
Cep164  
Wdr81  
Pip5k1b  
Atp6ap2  
Madd  
Rnf114  
Agap3  
Ap3d1

Camsap3  
Mrpl28  
Mtf1  
Ptrk  
Anks1  
Hyal2  
Cactin  
Tceb3  
Abcf1  
Tdrd3  
Neurl4  
Carm1  
Cpd  
Sh2b3  
Wwp2  
Ptbp1  
Nelfb  
Plbd2  
Strn4  
Gle1  
Sh2b1  
Srp68  
Adrbk1  
Eif4a3  
Cd81  
Abl1  
Pgam1  
Atp6v0a2  
Dync1li1

Rab2a  
Glrx5  
Hipk3  
Stat5b  
Sh3d19  
Capn7  
Pkig  
Gnl1  
Ap3b1  
Eif3j1  
Esys2  
Pfn1  
Kif16b  
Rab1  
Rnf187  
Mrps24  
H2-T3  
Swi5  
Vapa  
Ttyh2  
Cdk12  
Vps29  
Ankrd16  
Sptssa  
Hadhb  
Bnip3l  
Stk25  
Hdac3  
Ttc7

Sh3gl1  
Seh1l  
Vti1a  
Slmap  
Atg2b  
Morf4l1  
Ube2j1  
Atp6v1d  
Mgat5  
Psme1  
Sec62  
Srcap  
Nfrkb  
Atp9b  
Cldn25  
Psmb6  
Stx3  
Eftud1  
Serf2  
Dvl1  
Fut8  
Pias2  
Tpi1  
Uqcr10  
Psm2  
Aven  
Arf4  
Hmgn2  
Aasdhpt

Cnot6  
Shprh  
Bach1  
Efcab14  
Uba5  
Pfkfb2  
Ndufs4  
Kat6b  
Ap4e1  
Anapc16  
Fam173a  
Zfp787  
Spcs2  
Trak2  
Tlk2  
Svil  
Lrrc16a  
Med13l  
Pura  
Actr8  
Cast  
Dnajc19  
Bcl11a  
Tbc1d14  
Ube2s  
Rbbp7  
Pih1d1  
Tceb2  
Zmiz1

Fbln1  
Cetn3  
Necap1  
Ap1g2  
Gnas  
Gabarapl2  
Smad1  
Kbtbd2  
Snf8  
Guk1  
Lrch1  
Rchy1  
Ap1s1  
Epb4.1l5  
Adh5  
Cdc73  
Maged1  
Cdc25a  
Rab3gap1  
Hipk2  
Cr1l  
Atpif1  
Cers5  
Nme7  
Ube2e3  
Atp5g1  
Capza1  
Plagl2  
Lsm1

Mex3c  
Clasp1  
Mvb12a  
Osbp18  
Mrpl13  
Tomm20  
Nhsl1  
Snrpa1  
Ppp1cb  
Rbm45  
Snx24  
Mtus1  
Trpm7  
Tbck  
Tspan3  
Fam13b  
Hist1h4i  
Ugcg  
Azi2  
Sub1  
Lrig2  
Gemin7  
Usp16  
0610040J01Rik  
Atp5j  
Usp14  
Fmr1  
Vdac2  
Rela



Fuom  
Gsto1  
Arf3  
Ripk1  
Tpp2  
Gpatch2  
Cdc42bpa  
Zfp809  
Cd63  
Bmpr2  
Otud5  
N4bp2l2  
2700089E24Rik  
Crb3  
Cep120  
Txnl1  
Blk  
Lypla1  
Uchl3  
Rsrc2  
Tgs1  
Ccnd3  
ErbB2ip  
Thoc6  
Mbd5  
Dynlrb1  
Tet2  
Mettl23  
Zranb2

Sf3b6  
Mob3b  
Ssbp1  
C78339  
Eea1  
Depdc5  
Itm2c  
Spc25  
Tmem106b  
Spata5  
Mycbp2  
Mff  
Bola3  
Smcp1  
Rab3gap2  
Amn1  
Dyrk2  
Nutf2  
Chrac1  
D8Erttd738e  
Pfdn2  
Pomp  
Fam133b  
Ccnb1  
Ube2f  
Snrnp48  
Tor1aip2  
Uckl1  
Arf1

Tnrc6a  
Pikfyve  
Ythdf3  
Edf1  
Fundc2  
Ndufb3  
Rhot2  
Herc4  
Cpsf6  
Bcl10  
Vil1  
Ubr1  
Rbm5  
Ndufa13  
Nsdhl  
Gpr89  
Yod1  
Rsb1l  
Mid2  
Atp6v1f  
Rnf2  
Usp28  
Fbxl12  
D030056L22Rik  
Prpf4b  
Pdzd11  
Cbr1  
Wdr26  
Mbnl1

Cops6  
Serp7  
Dgkq  
Ndfip1  
Fkrp  
Mars  
Tra2a  
Ptpg  
Vcpkmt  
Malt1  
Ppp3cb  
Nubp1  
Shfm1  
Ppp2r2a  
Ctps2  
Serinc3  
Tipr1  
Rfwd2  
Nt5c3  
Pdss1  
C1d  
Rdh11  
Ldha  
Dnm1l  
Pdcl3  
Hspe1  
Ormdl3  
Zc3h7a  
Cmip

Pdcd5  
Atrnl1  
2810403A07Rik  
Tmem208  
Nmnat3  
Trim8  
Cwf19l2  
Vps13c  
Med29  
NA  
Tiparp  
Herc1  
Pex7  
Zfp26  
Itfg1  
Traf3ip2  
2700081O15Rik  
Gtpbp8  
Rab18  
Rdh14  
Taok1  
Baiap2l1  
Snx4  
Unkl  
Xiap  
Shb  
St7  
Nfat5  
Mcu

Rai1  
Calm2  
Plekha3  
Leng8  
Arhgdia  
Rad54l2  
Slc44a4  
Taf5  
Usp12  
Tmx1  
Nufip2  
Pacrgl  
Tox  
Fgd4  
Chchd1  
Kctd13  
Actb  
Cyb5r1  
Cog5  
Hist1h1a  
Cenpa  
Gadd45a  
Eif1a  
1700019G17Rik  
Gpatch2l  
Papd5  
Zfp236  
Zswim6  
Cdkal1

Galnt3  
Pvrl1  
Ginm1  
Xrcc4  
Rcbtb2  
Tram1  
Dact2  
Hsbp1  
Erp44  
Macf1  
Prdm11  
Stk24  
Rab5c  
Rufy2  
Uba3  
Trafd1  
Foxp1  
6330416G13Rik  
Ccnjl  
Hyls1  
Tssc1  
Cflar  
Asah1  
Rnf138  
Jmjd1c  
Slc25a26  
Ankmy2  
Ube2c  
Zdhhc12

Nmd3  
Tpgs1  
Tbcb  
Fto  
Rab7  
Clca2  
Pex3  
NA  
Fndc3a  
Ppid  
Ndufb6  
Zfhx3  
Golga1  
Rars2  
Hnrnp11  
Cd2ap  
Zfp219  
Crtc3  
Btnl5-ps  
Pgg1b  
Zfp619  
Leprot1  
Mcoln1  
Fam96b  
Klh5  
Ppp1r13b  
Btbd10  
Fkbp2  
Nfib



Luc7l2  
Mier3  
Mgat2  
Plk4  
Rheb  
Zswim8  
Ak2  
Cox5b  
Mysm1  
Gphn  
Sergef  
Aff4  
Rnh1  
Fam76b  
Chchd2  
Nab1  
Esrra  
Sppl2a  
Magoh  
Gimap1  
Ska1  
Epg5  
Pin4  
Tmem87a  
Gm24339  
Med27  
Zwint  
Spr  
Rab1b

Gnai2  
Creld1  
Abi1  
Commd1  
Slc35f2  
Tmem150b  
Stx12  
Atad2b  
Mrpl27  
Wdr37  
Usp9x  
Ltbr  
Clk4  
Vps45  
Pex14  
Arap1  
Vamp2  
Ntan1  
Ube2k  
Med30  
Rpp30  
NA  
Dmd  
Kdm5a  
Tmem128  
Lamtor2  
Arpp19  
Srp19  
Gnpnat1

Phka2  
Rnf14  
Hist1h2ai  
Decr1  
Arf5  
Mcur1  
Ndst1  
Srp54b  
Tmem68  
Insig2  
Ubr3  
Atp5j2  
Tcirg1  
Cers6  
Uxt  
Atp6v1c1  
Srp9  
Ankle1  
Pitpna  
Rbm39  
Bnip2  
Gtpbp2  
Tbc1d12  
Rsrp1  
Prkdc  
Lsm6  
Slc12a2  
Mkln1  
Gm10282

Adam9  
Ankrd44  
Fzd7  
Tnfrsf10b  
Hist1h3d  
Cks2  
Tmem50a  
Crbn  
Nlk  
Zscan2  
Asb6  
Rab11fip2  
Rilpl2  
Syne2  
Pafah1b1  
Lemd3  
Serp1  
P2ry1  
Cep350  
Rhot1  
Auts2  
Osbp16  
Tmem167  
Eci2

2-Mar

Magi1  
Ergic2  
0610011F06Rik  
Scpep1

Slc38a2  
Brwd1  
Pts  
Ttc19  
Tfg  
Dennd2d  
Zfp513  
Plin3  
Apex2  
Zfp942  
Sema4g  
Rhbdl2  
AW549877  
Nedd8  
Cyb5a  
NA  
Polr3f  
Idnk  
Psd3  
Zfp871  
1110059E24Rik  
Zfyve16  
Jak1  
Naa16  
Fcho2  
Bpnt1  
Bahcc1  
Psm3  
Rogdi

Rab21  
Mbip  
Homer1  
Bcl2l11  
Pcmt1  
Chd3  
Ube2v2  
Fam45a  
Vps13a  
Oaf  
Aig1  
Slc35a5  
Dock7  
Dgcr6  
Cnp  
Sowahb  
Il13ra1  
Diap3  
Commd2  
Actr10  
mt-Nd4  
Gm10123  
Ncapg  
Pip5k1a  
Hist1h2ag  
Tmem230  
1110065P20Rik  
Ppp3ca  
H2afx

Rn7sk  
Ptprd  
Trip12  
Erc1  
Mroh1  
Alg6  
Fam162a  
St7l  
Tmem147  
D5Erttd579e  
Atp13a3  
Exoc2  
H2afz  
Nsmf  
Mtx3  
Uhrf1bp1l  
Fxn  
Bub3  
Rnf145  
Ddt  
Ppfibp1  
Man1a  
Gnai3  
Spag5  
Picalm  
Slc22a15  
Etv3  
Fubp1  
Rnf115

Plekhf2  
Rab14  
Zfp719  
Epas1  
Rcan3  
Snx18  
Ghitm  
Gbe1  
Pcm1  
Arhgap12  
Setdb2  
Gata6  
Zfp281  
Srsf9  
Bloc1s2  
Sh3bgrl  
Glyctk  
Sec63  
Mtch2  
Spag7  
Map4k3  
Papolg  
Gbas  
Sec23a  
Zfp62  
Kat2b  
Ube2e1  
Pyurf  
Pnrc1



Rabggb  
Rp2h  
Nr1h3  
Rictor  
Pld2  
Cd44  
Nudt4  
Cyb5b  
Acox1  
1110054M08Rik  
Numb  
Lrrc75a  
Myl12a  
Tmed4  
Nmnat1  
1110059G10Rik  
Dcaf6  
Itsn2  
Tbca  
Arpc5  
Dtd2  
Saraf  
Suco  
Hmgcs1  
Glrx  
Ada  
Slc38a6  
Uqcrb  
Fam178a

Ezr  
Slc39a1  
Tlk1  
Car12  
2700094K13Rik  
Lmbrd1  
Map2k2  
Fam49b  
Slc25a13  
Hist1h2bf  
Gm12940  
Esrrg  
Atp5l  
Cttnbp2  
Pcyt2  
mt-Co2  
Nphp3  
Chm  
Gng12  
C2cd2l  
Zfc3h1  
2310035C23Rik  
Klhdc8b  
Snx3  
Tmem205  
Dynll1  
Ccser1  
Fam46a  
Memo1

Snap23  
Slc9a5  
Csnk1g1  
Ythdc1  
Rnf217  
Rapgef2  
Ap5b1  
Rabep2  
Timm13  
D17Wsu104e  
0610007P14Rik  
Vcl  
Abhd16a  
Pabpn1  
Usp32  
Adnp  
Tjp1  
Baz2b  
Qsox1  
Hcfc2  
Cox11  
Eif4a2  
Eci1  
Hook3  
Smpd1  
Myo19  
Arpc4  
Dnajc13  
Cers2

Tfe3  
1810013L24Rik  
Styx  
Stim2  
Ciapin1  
Ube2m  
Ccdc186  
Hmces  
Gm21092  
Mocs1  
Wee1  
Uso1  
Map3k5  
Pigr  
Orc3  
Ccdc68  
Phip  
Nus1  
Trmt11  
Selt  
Hist1h2bl  
EII2  
Cdx2  
mt-Nd5  
Lamtor4  
Rab6a  
Rap1a  
R3hdm1  
Syde2

Zfp873  
NA  
Ilk  
Ralgps1  
Clcn5  
Cyp4v3  
Deb1  
Rnaset2b  
Gimap9  
NA  
Syngap1  
Tmem53  
Psmc3ip  
Ormdl2  
Scoc  
Rnaset2a  
Hsd17b4  
BC030336  
Ap1ar  
Lpar1  
Hist1h2bc  
Tbc1d8b  
Dcp2  
Otud3  
Cenpi  
Tpm4  
Hist2h2ac  
Myo1d  
Tax1bp1

Maged2  
Tusc3  
BC065397  
Tdp2  
Vwa5a  
Ftx  
Arl6ip1  
Spsb1  
Tm9sf2  
Pof1b  
Fam84a  
Gabbr1  
Cblc  
NA  
Gm22442  
Zfand3  
Jpx  
Plk2  
3110062M04Rik  
Map2k5  
Synj1  
Mrpl20  
Arglu1  
B230307C23Rik  
Nat2  
Tnfrsf11a  
Rbbp8  
Trip11  
Ptpn9

Chn2  
Pcna  
Sec61a2  
Slc35a1  
Tank  
Atg2a  
Gtf3a  
Rab11a  
mt-Co1  
Ost4  
Gm9762  
Zbtb24  
Eif4g3  
Zfat  
Vimp  
Tmem55b  
Erlec1  
Cisd2  
Mbnl2  
Pop5  
Ivns1abp  
Skap2  
Rnf135  
Kcnc3  
Tmem9b  
Cbwd1  
C630043F03Rik  
Ppp1r35  
Tbc1d23

4921524J17Rik  
Pfdn1  
Ndufc1  
2610001J05Rik  
Tgfbr2  
Trappc6b  
Rab10os  
Wsb1  
Edn1  
Slc30a1  
Glod5  
Slc18b1  
Crebl2  
Igsf23  
Oaz1  
Sft2d1  
Fam122a  
Atp6v0e  
Vegfc  
Dlgap4  
Cyp20a1  
Ap2a2  
Gm609  
Ggnbp2  
Nktr  
Gla  
2010012O05Rik  
mt-Cytb  
Hist1h2bj



Atp6v0c  
Spns1  
Tnip2  
Parp12  
Gm26549  
Mien1  
Nmi  
Larp1b  
Minpp1  
Exoc6  
Thns12  
Hsd17b12  
Stxbp3a  
NA  
Hist1h3c  
Stxbp4  
Rc3h2  
Enpp4  
2410127L17Rik  
Zcchc6  
Dip2a  
Idh1  
Rap1gds1  
Gkap1  
Lmbrd2  
Zfp326  
Tmem144  
Neo1  
Map4k2

Gys1  
Dennd3  
Gmip  
Reep3  
Prorsd1  
Snapc3  
Tmem203  
Zfp607  
Klhl3  
Cwc27  
Man2a1  
Rbpj  
Cdk18  
Herc3  
Ppp1r12a  
Hist1h3g  
Kctd9  
Pim1  
RP24-245M20.4  
Gstm5  
Hic2  
Aplp2  
Hist1h2bb  
Ccdc84  
Akt2  
Secisbp2l  
Timm8b  
Stx7  
Bloc1s4

Dmxl1  
Pld1  
Fbxo8  
Isca2  
Brip1  
Zfp758  
NA  
2700097O09Rik  
Agps  
Fam73a  
Rab9  
Fahd1  
Smc5  
Serinc1  
Eno1  
Gm28523  
Anapc10  
Pklr  
NA  
B4galt4  
Klhl28  
Rasa2  
Nrg4  
Atp7a  
Hist1h2bk  
Ankrd32  
Ganc  
Cdc42  
Ift22

Shroom2  
Hist1h3a  
Nars  
Ric1  
Hps5  
Ero1lb  
Cadps2  
Lhpp  
Sbno2  
Bpgm  
Osgepl1  
Prps2  
Areg  
Ccdc171  
Mzt1  
Tspan31  
Orc4  
Satb2  
Ube2b  
Oasl2  
1500011K16Rik  
Lss  
Zhx3  
Abhd10  
Sema4a  
Dennd1b  
Hist1h1c  
Eed  
Kalrn

Adi1  
Cox18  
Cenpw  
Slc35b3  
Tmem9  
Gopc  
Lif  
Ube2w  
Dtnb  
Rdh10  
Rab5a  
Zfp119a  
Nsmf  
Ptpn18  
Ugt2b34  
Srgap2  
Ythdc2  
Hist1h4f  
NA  
Insl6  
Uap1  
Nf1  
Onecut2  
Pde9a  
Gt(ROSA)26Sor  
RP23-463E8.1  
Tmem251  
Net1  
Xrn1

Tle4  
Zfp354a  
Ccdc58  
Txlng  
Atp5e  
Gm25911  
Ndufa2  
Mllt3  
NA  
2810403D21Rik  
NA  
Rasl11b  
Nradd  
Dhx36  
Rgs2  
Cbl  
Rhpn2  
Ip6k2  
Oaz1-ps  
NA  
Mtm1  
Tmem30a  
Atp5k  
NA  
Etnk1  
Exosc8  
Prdx1  
Raph1  
Rheb

2310057M21Rik

Crebrf

Asb3

Lpar2

RP23-306B14.3

Lsm5

Pls1

Eml5

Fbxl17

Hist1h2ah

Smarcd3

Pfkp

Sec61b

Athl1

Cript

NA

Ndufa6

Ttc14

1500015A07Rik

Ihh

Hist1h1e

Psph

Hist2h4

Snhg6

Vps13d

Tmem19

Bora

Tbce

Hist1h1b

Zfp639  
Slc38a9  
Sc5d  
Nfil3  
Slc4a5  
Thoc2  
Pter  
Mob4  
Zcchc11  
D630045J12Rik  
Dcun1d1  
Snhg4  
NA  
Rngtt  
Ubxn8  
Phlpp1  
NA  
Tead1  
2210408I21Rik  
Trip6  
Grhpr  
Yes1  
AA474408  
Hyi  
Wsb2  
2610005L07Rik  
Fer  
B630005N14Rik  
Eif4ebp1



Zfp825  
Nipsnap3b  
Mif  
Arl5b  
Ptpla  
Setd5  
Gmfb  
Phgdh  
Nipa2  
Glmn  
Fam214a  
Klh15  
Snrnp35  
Itgb1  
Bag2  
Gpx4  
Stat2  
NA  
Xylt1  
Mkl  
Mmp15  
Gnb5  
Tmsb4x  
H2-Q4  
Myo15b  
Itgb5  
Atg4c  
Morc3  
Thoc7

Myo6  
Rap1b  
NA  
Slc25a1  
Flrt3  
Atp10b  
Tceb1  
Palld  
Dpy19l4  
Ndfip2  
Cebpd  
Pik3ap1  
Ptrj  
Tmem258  
Kpna2  
Fzd4  
Cyth3  
Ccng2  
Rnft1  
Cdk1  
Tmed5  
NA  
Wdr7  
Pcsk4  
Maff  
Fth1  
Fbxo4  
Gng5  
NA

Cd38  
Zfp407  
Dusp4  
Tek2  
2610037D02Rik  
Gm21811  
NA  
Fggy  
Lsm8  
Zfp939  
Mapk8  
Ate1  
Gm26448  
Vps37a  
Fbxo25  
Sar1b  
0610010F05Rik  
Zcchc9  
Slc25a40  
Coprs  
Sertad4  
Gm10557  
Prdx4  
Hps3  
Fam188a  
Tbc1d2b  
Ndufaf2  
Ostf1  
Trib1

Clk1  
2210013O21Rik  
Hist1h3i  
Arl8a  
Tmbim4  
Trim3  
Rabep1  
Ube3a  
Mapk8ip3  
Pcyt1a  
Zfp280d  
Mrps36  
Mthfd2  
Bbip1  
Usp34  
Sytl4  
Fkbp1a  
Cspp1  
Vps54  
Dtx3  
Arl3  
Erlin1  
Zbtb12  
Slc11a2  
Tbx3  
Rnf186  
Lta4h  
Txnrd2  
Sorbs1

3110043O21Rik

Abhd1

15-Sep

Fam195b

Ahr

Strip2

Dab1

2900076A07Rik

Psmb8

Pigf

Myom3

Pink1

Atl2

Fmnl2

Vps13b

Psat1

Hist1h3e

Gm6712

Epm2aip1

Stau2

Ceacam10

Cgref1

Fgr

Pole4

Parp3

Sgms2

1810055G02Rik

Kcnj2

Hist1h2be

Vrk2  
NA  
RP23-411M4.2  
Rnf19a  
Cnnm1  
Porcn  
Spag9  
Chd2  
Plekhg4  
Arhgef3  
Slc1a2  
Capza2  
Rap2c  
Sectm1b  
Hist1h1d  
Ephx2  
Myo1e  
G2e3  
Sec24a  
Zbtb37  
Ube2a  
B4galt5  
NA  
Smdt1  
Rev1  
Clic1  
Dirc2  
Gm16386  
Tlr3

Slc35d2  
Dak  
Gm15489  
Fam208a  
Itgav  
Gm12320  
Dpp4  
Usmg5  
Hdhd3  
Rabgap1l

2-Mar

Srsf5  
Rabggta  
Ccdc71l  
Tbc1d10b  
Syne3  
Cpq  
Dynlt3  
Tpd52l1  
Chrnbl  
Chchd6  
Gdap10  
Phc3  
RP23-6F21.1  
Tmem176b  
Pstk  
Exoc5  
Mcts1  
RP23-349M18.1

Evi5  
Scp2  
Eny2  
Tmem241  
Map3k2  
Hist1h4j  
RP23-251N15.2  
Gm13139  
A530084C06Rik  
Rock2  
Gng11  
NA  
Brms1l  
Gm17250  
3110009E18Rik  
Heatr5a  
Prpf39  
Mmd  
WI1-1981I9.3  
Lysmd3  
Prom1  
Ispd  
Plscr1  
6820431F20Rik  
NA  
Gm11688  
Tmem37  
Scarb1  
Taf1d



Vti1b  
Ociad1  
NA  
Lrrc1  
NA  
Snx6  
NA  
Pcnx  
Pmaip1  
Ttr  
Pald1  
Higd1a  
Sypl  
Ttc6  
RP23-411M4.1  
Usp40  
Sec61g  
Hpgd  
C130046K22Rik  
Bbs7  
Shisa5  
Ube2d3  
Ccl9  
Prkch  
Lipe  
Slc35f5  
NA  
Clock  
Atp5g3

Hsd12  
Gpr128  
Abcc10  
Gm28424  
Spsb2  
Adamts10  
Atp6v1g1  
Nostrin  
Kif1b  
Utp20  
Galm  
Tmem29  
Osbp1a  
Rbbp9  
Mpc2  
Rfx5  
Fnip1  
Rnase4  
Tmem86b  
Hist2h3b  
Ndufa1  
Foxn3  
Atp1b1  
Pdc10  
Samd8  
Pdx1  
Nbas  
Pla2g6  
Cenpk

Parp4  
Far1  
Ophn1  
Nkd1  
NA  
Sra1  
Samd4  
Akr1c13  
Mef2a  
Srp54a  
Trim31  
Osr2  
Gm7160  
Bloc1s1  
Slc16a10  
Reep5  
Twf1  
Spopl  
Helz2  
Lrig3  
Ikbip  
Ulk3  
Scfd1  
Fbxw17  
Gcnt2  
Glud1  
Cdip1  
Eml6  
Hist1h4m

Appl1  
Ppap2a  
Sgpp1  
Tmem176a  
Azin1  
Gm6254  
NA  
H2-Q2  
Boc  
Tctex1d2  
1810058I24Rik  
Lmo7  
Rhog  
Usp27x  
Pipox  
Atn1  
Tsc22d1  
Cycs  
Lphn2  
Slc52a2  
Rundc3b  
Agfg1  
Tap2  
Fam160a1  
1110058L19Rik  
Hist1h2bp  
NA  
Sdf2l1  
Gatsl2

Acvr2a  
Stk38l  
Fus  
Tm2d1  
Serp1b1a  
5031425E22Rik  
H2-D1  
5830428H23Rik  
NA  
Rai14  
Atg16l2  
Prdx5  
Kif13b  
Uqcc2  
Fam35a  
Gm13341  
Msmo1  
Trim13  
Lpcat3  
Rnasel  
Arl2  
Lyn  
Pros1  
Gpr39  
Errfi1  
B3gnt2  
Klc3  
Pnpla3  
Avil

H2-K1  
RP23-187M7.5  
RP23-274C16.4  
Mppe1  
Cdon  
Col16a1  
Katnbl1  
Dpm1  
Sqstm1  
Kctd12  
Slc25a24  
NA  
NA  
Slc41a2  
Dst  
Snord83b  
Lrif1  
Plcl2  
Lactb2  
Lonp2  
Cept1  
Ap3s1  
Uqcrq  
Med13  
Dzip3  
Bet1  
Galt  
Smad2  
Gapdh

Vsig2  
Dram2  
Tmem54  
Mtap  
Phf1  
Vldlr  
Ncoa1  
Trip4  
Samhd1  
Hap1  
RP23-46L5.1  
Slc2a5  
Rbm26  
Nhs  
NA  
Gtf2a2  
Gm11451  
Acot13  
Psmg4  
NA  
Lactb  
Isg15  
Adk  
RP24-93F24.2  
Rassf10  
NA  
Il15  
NA  
A630072M18Rik

Glcci1  
mt-Nd1  
Nfkbiz  
Asap1  
Xaf1  
Klhl2  
Adcy3  
Ror2  
Ppm1b  
Ubt1d1

7-Mar

NA  
Cyr61  
Atxn7  
Afap1  
Arpc1b  
Diap2  
Lrrc28  
NA  
Klc2  
Il3ra  
Ogt  
2310015A10Rik  
D130040H23Rik  
Zfp947  
Clasp2  
Slc9a3r1  
Heph  
Tgm2



Insr  
Snora47  
2810002D19Rik  
Rpl24  
S100pbp  
Snx13  
Parp9  
Mfsd8  
Antxr2  
Skil  
1110007C09Rik  
mt-Nd6  
Tmem243  
Fdps  
Ap1s2  
Atrn  
Oaz2  
Adipor2  
Prosc  
Egln3  
Nfkbia  
Ino80dos  
Wdfy1  
Prss23  
Tsku  
Trp53inp2  
NA  
Pygl  
Acot4

Mir17hg  
Gm23442  
Tmem126a  
Mospd2  
Aadac  
Mn1  
Zfand5  
Sfxn3  
A930035D04Rik  
Syap1  
B4galt1  
Lcorl  
Dhx58  
Gpcpd1  
RP23-180C14.1  
NA  
Dgat2  
Flot1  
Cyp51  
Gimap8  
Gm26652  
Gm29170  
Ano6  
4930503L19Rik  
Lmo4  
Zfp711  
Tcea2  
Swt1  
Zufsp

Romo1  
3110057O12Rik  
NA  
Apaf1  
Malat1  
Man2b2  
Dnajb4  
Mocos  
Pqlc2  
Arhgef26  
Rbm4  
Fchsd2  
Prss12  
Arhgap29  
Slc25a28  
NA  
4732490B19Rik  
Kdm4c  
Ceacam2  
Csrnp1  
Slc26a3  
Ankrd54  
NA  
Stard3nl  
Steap1  
Zc2hc1a  
Mir1938  
NA  
Spata17

Maml3  
Lrba  
Cox6b2  
Tmem41b  
Uba7  
Gm7173  
Gm4707  
Acad11  
Snora31  
NA  
Slc31a1  
Gsap  
Aldoa  
Coq10b  
5031434O11Rik  
Rnpc3  
Map3k13  
Ly6e  
Itga2  
Eepd1  
Tnfrsf1a  
Fez2  
Tmem64  
Naip3  
Nfkbie  
Lacc1  
Rab4b  
Cln3  
Aip

Ptp4a3  
Nr4a3  
Stim1  
Ndel1  
Ptpm  
Sipa1  
Lpgat1  
Mapk4  
Ppt1  
E130311K13Rik  
RP24-172B22.6  
Rps6ka4  
NA  
Acbd4  
Fkbp14  
4732440D04Rik  
RP23-114L12.3  
Bco2  
Oat  
Gm15869  
Pparg  
4932438A13Rik  
C630016N16Rik  
Snora73b  
Ifnar2  
Scp2-ps2  
Gm26814  
Fam172a  
Csf2ra

Rnf213  
Hip1r  
Dnaja4  
Pign  
NA  
AU041133  
Gm3608  
NA  
Slc39a14  
Ccdc148  
Pitpnm1  
Trim24  
NA  
1110028F11Rik  
Thrb  
Rmdn1  
Cxadr  
Sox6  
Sp140  
Pbld1  
Itpr2  
NA  
Gm20707  
Gm26529  
RP24-88F2.3  
NA  
NA  
Wnk4  
Map1lc3a

Aamdc  
Adamts1  
Magee1  
Oasl1  
RP23-474B13.2  
Ssh1  
Mir22hg  
Gm20939  
AA986860  
Pde4d  
Smpd2  
Agl  
Naip5  
Sugct  
Pgs1  
Echdc2  
Slc5a1  
Hmga2  
Tmx3  
Fam118b  
Tle1  
Tcf7l2  
BC021785  
Irak2  
Hist1h4n  
Cox16  
RP24-423J19.3  
RP23-323H18.2  
Muc13

Gm16751  
Nckap5  
Slfn10-ps  
Tmem135  
Trim34a  
Arhgap26  
Atox1  
Rnd3  
Dhrs1  
Pfkfb3  
Homer2  
Taf1b  
Atp11a  
2410089E03Rik  
Vegfb  
Agpat9  
Pcsk9  
Scai  
NA  
Zfp442  
Mx2  
Ppp2r2d  
Garem  
Ap1m1  
2310001H17Rik  
Hmx3  
Stk3  
Prdx6  
RP24-338G10.1



mt-Nd2  
Spryd7  
NA  
Myadm  
Camk1  
Commd6  
Zfp945  
Chuk  
Slc1a4  
Trpm5  
Slc46a3  
F5  
Il17rb  
NA  
Dlgap3  
NA  
Gclm  
Gm17354  
NA  
NA  
9130230N09Rik  
Phlpp2  
Asah2  
Drc1  
Zfp937  
4930539J05Rik  
4933426M11Rik  
Pcsk6  
Tsc22d2

Lck  
Adck5  
Mir5107  
1110020A21Rik  
Bambi  
H2-DMa  
NA  
RP23-269E5.10  
Dock4  
Them6  
Gm17082  
Nos1ap  
Hoxb6  
Impa1  
NA  
Atf5  
Gtdc1  
1810046K07Rik  
Hint3  
RP23-296I6.7  
NA  
Hebp1  
Gm15595  
Nyap1  
Gstm7  
NA  
NA  
RP23-296I6.8  
Mss51

Nin  
Ascc3  
Ulk2  
Comtd1  
Prmt2  
Bst2  
RP23-32A8.1  
Mall  
NA  
Mid1  
Syncn  
Pik3c2a  
Gm13251  
S100a10  
RP23-327M13.6  
Snord49a  
Gm22068  
5033403F01Rik  
Gm17207  
Sorbs2  
Lpar6  
Smim22  
Lptm4b  
RP23-363M8.2  
Tab3  
Il15ra  
Slc25a20  
A230050P20Rik  
NA

Mtcp1  
Mrc1  
Rhoc  
Zfp433  
Wwc2  
2900093K20Rik  
RP23-116P18.2  
Slc3a2  
Tbk1  
Tnfsf13  
Dpyd  
Tnf  
NA  
RP23-423B1.6  
Nbea  
Ctnnd1  
Mogat2  
Naip6  
Large  
Rnf125  
RP23-250G8.9  
NA  
NA  
Cml1  
Gm23444  
Fbxo6  
Nxn  
Zdhhc15  
Fam134b

Cul7  
Gm13248  
Dnase2a  
RP23-477C13.3  
Gm12207  
Plscr2  
Als2  
4931406C07Rik  
1700024P16Rik  
Npas2  
Pdgfc  
Snhg3  
Herc2  
Cftr  
Camkk2  
Mthfs1  
Taf9b  
Ebp1  
Efcab5  
Dbi  
Cyp2j6  
Ptbp2  
Dapp1  
NA  
Iqcb1  
Sdc2  
Tnfrsf23  
Map7  
RP23-125I14.1

Mtmr7  
Pvr  
Immp2l  
Dusp6  
4933404O12Rik  
Eml2  
Il22ra1  
RP23-296I6.4  
Fam184b  
RP23-444I6.3  
Nptn  
Ptp4a1  
BC030499  
Hist2h2ab  
Scarna9  
Lamp2  
Vipr2  
Chpf  
Cd74  
Fam101b  
Cyp2j9  
Atp11c  
Gm15372  
Capn1  
Gm18190  
NA  
Brwd3  
RP24-444I15.1  
Pbx3

Fam3c  
Ttc7b  
Dleu2  
A1cf  
Tm6sf2  
Brdt  
RP23-379F6.3  
Orai3  
Arl4a  
Rhobtb3  
Epb4.1l1  
Pycard  
Ripk2  
RP23-93D12.1  
RP23-334M9.5  
Tbcel  
Btl6  
Gm7467  
Ces2c  
RP23-327M13.3  
Efcab11  
Crem  
RP23-414A20.3  
RP24-432B3.4  
Syt12  
NA  
Snora41  
NA  
A930033H14Rik

Dnajb3  
NA  
Pik3r5  
RP23-102B12.2  
Tmem161b  
Snord17  
NA  
4732491K20Rik  
Ube2l6  
Mad2l2  
Ppp1r14c  
1700065D16Rik  
Hivep2  
Snord58b  
Gm25835  
B4galnt3  
1110008P14Rik  
Ly75  
NA  
Eva1b  
NA  
Cfl2  
NA  
Mkrn2os  
NA  
Grina  
Gm28439  
Rassf4  
Snora21



Acot1  
Pik3cg  
Trabd2b  
Susd1  
Vkorc1  
4833417C18Rik  
Sbsn  
Chka  
Lincpint  
NA  
NA  
Map4  
Cblb  
Mgst1  
Gm5560  
Nr3c2  
Ubxn2a  
Pttg1  
Slc22a3  
Rnf121  
Optn  
Itpripl2  
Cd46  
Impg2  
Rasal2  
Rab2b  
Ppnr  
Dock8  
Casp6

Apobec3  
Btg3  
Bok  
RP23-412L18.6  
Cyp2r1  
NA  
Tspan13  
Cytip  
Ly96  
Slc17a4  
Anxa13  
Entpd7  
Apip  
A230046K03Rik  
H2-M3  
RP23-412L18.5  
NA  
Spg20  
Mtus2  
Unc119  
Gm22973  
Gm22154  
Slc4a7  
Ptprc  
Sp100  
Gm15533  
Hoxb2  
Meis3  
NA

Cpeb4  
Mapre3  
NA  
Rnf128  
Tma7  
NA  
Egr4  
Tsga10  
Lypd8  
Gm22806  
RP23-349H13.2  
Atp10d  
A930007119Rik  
H6pd  
Aldob  
Nespas  
NA  
RP23-392C14.1  
Gm9844  
NA  
NA  
RP23-114L12.6  
NA  
Tmem236  
Zfand6  
NA  
Smpd5  
Ppm1l  
Cth

2810417H13Rik  
Grb14  
Rnu11  
RP23-339P23.1  
Amacr  
NA  
RP23-16D16.13  
Eogt  
Kcnh1  
Lppr2  
Tmem65  
Gm8113  
AW112010  
NA  
NA  
Eci3  
Neur1a  
Il18  
Klf5  
S100a13  
NA  
RP24-273P12.4  
Fut2  
Prss16  
Spib  
Akap17b  
Il7  
NA  
Dcbl1

Ccdc129  
Casp12  
Btl1  
Gm26853  
NA  
Tbc1d24  
Gpr22  
NA  
Gm20696  
1810022K09Rik  
Smpx  
Themis3  
Alcam  
Ifrd1  
Prkaa2  
Gm13237  
Ephb6  
Cystm1  
NA  
RP24-282D16.9  
NA  
Hck  
Gm13689  
Tube1  
Tmem229a  
Hnmt  
Hmox1  
Alox5ap  
NA

Tmsb10  
Arhgap18  
Dgkh  
4930556M19Rik  
Ociad2  
AF357399  
Abcc6  
Pou2af1  
Vamp5  
1110036E04Rik  
NA  
Gm10425  
Gpd1  
Clcn6  
Flot2  
Slc10a5  
Syne4  
Hpgds  
Gm14921  
Zfp697  
Smarca5-ps  
Lpcat4  
Gm24091  
Cyp2d22  
Tuba1a

6-Mar

RP23-358I10.3  
Cobll1  
Gem

Tmem181c-ps  
Fam213a  
Inpp1  
NA  
RP23-323H18.1  
Adam4  
Gm22009  
NA  
NA  
Foxq1  
1010001N08Rik  
Gsdmd  
Cyyr1  
Gm15246  
Cd14  
Neu1  
NA  
NA  
Exoc3l4  
Nrp2  
NA  
Slc5a4b  
Rtp4  
RP24-546N2.2  
Rnf24  
Svip  
Rph3al  
Pkh1  
Dgki

B3gnt7  
NA  
Gm24616  
RP23-392C14.2  
1600014C10Rik  
RP23-471J16.2  
Hopx  
NA  
NA  
NA  
RP23-232K16.2  
NA  
Synpo  
RP23-309A8.3  
Spry1  
Ect2  
RP24-270A10.5  
NA  
Sccpdh  
Gm28323  
Ltc4s  
Gramd1a  
Fyn  
Nt5dc2  
NA  
NA  
NA  
RP24-310B3.1  
Chrm3



D230022J07Rik  
Pibf1  
NA  
Gm13657  
NA  
Fam216a  
Ahcyl2  
Tymp  
Rab11b-ps2  
Mal2  
NA  
Gm15859  
RP23-36P10.11  
Akr1b10  
NA  
Spaca6  
NA  
NA  
NA  
Hist3h2bb-ps  
Snora62  
4632427E13Rik  
Fam89a  
Aifm3  
Gprc5c  
Rgs22  
NA  
NA  
St3gal6

Tmem253  
Fkbp11  
NA  
Ext1  
Tlcd2  
NA  
Soat2  
Casc4  
Gca  
Cib2  
Tnfaip3  
Gpr21  
Tmem263  
Gm26397  
NA  
Gm22192  
Aldh1l1  
NA  
Gm5784  
NA  
Slit2  
Gm25788  
Gm21399  
Slc35e3  
Rdh16  
RP24-318B11.1  
Rel  
5430402O13Rik  
Gm9320

Snord13  
NA  
G6pc  
Sema6d  
Gm17484  
NA  
Ildr1  
Snord85  
Adssl1  
NA  
Gsr  
H2-Eb1  
Tbx3os2  
Ptpmh  
I18bp  
NA  
Lrmp  
NA  
Slc4a8  
Dhrs11  
Gm20498  
NA  
Tmem229b  
Rhod  
NA  
NA  
Pdgb  
Trim30d  
4930511M06Rik

NA  
Gbp7  
Gnpda1  
Tlr2  
6720427I07Rik  
Arhgef9  
9130024F11Rik  
Gm16523  
NA  
Gm17024  
Pkia  
NA  
Plod1  
Col15a1  
Exph5  
mt-Tm  
4930594M22Rik  
Gm26621  
Gm2237  
NA  
Ccdc88a  
RP24-283P23.1  
Slc2a2  
Sptb  
Gm27010  
NA  
Sox12  
Cadm1  
Dclk1

Gm25099

NA

NA

A630081J09Rik

Gm20426

Nbeal1

RP24-540L1.2

Arntl2

Xylb

Boll

NA

Atp2c1

Nr4a1

Abcb4

Tspan6

NA

NA

NA

Gm15200

Pgrmc2

RP23-413K6.4

Moxd1

NA

Slc26a6

NA

Parp14

Wdr44

NA

Lancl3

Oas2  
Mpp2  
Gm7221  
Trp53i13  
Gm26514  
Fcnaos  
Stat3  
Mboat2  
Rnf144a  
RP24-546N2.5  
RP23-474B13.1  
RP24-395F2.1  
Fes  
RP24-303N8.3  
Gm6768  
Cdyl2  
Agmo  
RP24-429G21.3  
Rpl10-ps6  
Spry4  
Cald1  
NA  
NA  
Frk  
Gramd3  
Bst1  
Ralgapa2  
Snord65  
RP23-406B13.9

Igdcc4  
Cers4  
Gm25544  
C1rl  
NA  
Gm22888  
Slc3a1  
Fabp1  
Gm25206  
Gm13166  
Gm22362  
NA  
Sdk1  
Gm8116  
NA  
RP23-412L18.1  
Ssfa2  
Ccdc159  
Gm24494  
RP23-124N16.3  
NA  
Snrpn  
Gm18588  
H2-DMb1  
Idi1  
Sult1b1  
Il11ra1  
Klf6  
NA

Gls  
RP23-79K5.3  
BC002163  
Tfpi2  
A230028O05Rik  
Rnasek  
Acaa1b  
NA  
BC025446  
Btbd11  
NA  
3300002I08Rik  
Dennd5a  
Vmp1  
Oas1b  
Gm24445  
mt-Tw  
Gm7030  
Sh2d7  
Lurap1l  
Gm13380  
4933429H19Rik  
RP23-375F6.4  
Ppp2r5b  
Zfyve9  
Wwtr1  
Arid3a  
Limd2  
Ckb



Bbox1  
RP24-147G7.2  
NA  
Gm15848  
H2-Aa  
Ffar3  
NA  
Slc9a2  
RP23-16D16.12  
Eif3j2  
Tmem106a  
Inpp5d  
NA  
Cdkn2b  
NA  
NA  
NA  
RP24-221A23.7  
Hoxb5  
Clec2h  
Cml5  
NA  
RP23-461P14.1  
Anxa3  
Cideb  
Cd47  
Rasl11a  
Herc6  
RP23-152I6.2

Ces2e  
NA  
Ghr  
Tspyl5  
H2-T24  
NA  
NA  
Chpt1  
Aldh8a1  
Ly6g6d  
Plekhf1  
Chst11  
Cdr2  
Klf7  
Gm17195  
Bmp1  
Gm15651  
Tmc5  
Cep170  
NA  
Sh3bgr  
Dzank1  
Leap2  
NA  
Cldn2  
AA474331  
Zfp185  
Gm22392  
Pea15a

NA  
Igsf5  
NA  
Adh1  
4930458D05Rik  
Chat  
Kirrel3  
Slc12a5  
Dnm1  
Mptx1  
Tcf7l1  
1700016K19Rik  
Btc  
Zfp618  
RP23-93D12.2  
Tm4sf4  
NA  
RP23-16D16.14  
Gm20517  
Gm15658  
Pde4b  
Ly6g6f  
NA  
NA  
Atp2b1  
Gm17066  
Acsl4  
Sh2d6  
Hexb

Rac2  
Neb1  
NA  
MyI9  
Tnfrsf11b  
Hopxos  
Rhobtb1  
Gabre  
RP23-448A11.17  
Degs1  
Snord70  
Slc16a11  
Mab21l3  
Anpep  
NA  
Mir31  
Fst  
Gm22980  
Ccl20  
RP23-380F8.2  
NA  
Gm14636  
Prkce  
Mov10  
Dusp12  
Erdr1  
Ptgs1  
NA  
Pgap1

Dao  
Ypel2  
NA  
Grhl3  
NA  
H2-Q1  
NA  
Cyp3a13  
Crot  
NA  
Slc7a8  
Slc5a9  
NA  
RP23-412L18.2  
Gm13570  
Gm4468  
Gm27572  
Ifnlr1  
Ptpn2  
NA  
Fads6  
Eno1b  
Tm4sf20  
Nrn1  
Ccl27a  
Gm28043  
Trim35  
NA  
NA

NA  
Clic5  
Pde11a  
RP24-75E15.5  
RP23-260J11.4  
Pcdh19  
Gm23849  
Tnfrsf21  
Ms4a12  
Mir3968  
Gm26202  
Stk17b  
Ugt1a6a  
Msx1  
Mfsd2a  
RP23-380F8.1  
Gm5796  
Gm3617  
Ankrd22  
Cnksr2  
Ugt2b35  
Snora30  
Rbpms2  
Slc7a15  
NA  
Fyb  
Zfp189  
NA  
Sgk3

mt-Tq  
NA  
RP24-193D9.4  
Etv5  
NA  
RP23-380F8.3  
Usp18  
Slc39a4  
Mro  
Icam4  
Plac8  
Lipa  
Sgcb  
Xdh  
NA  
Ttc22  
Gm27271  
Gm17191  
Bche  
Tbxas1  
RP23-445K23.5  
Cidec  
Apol9a  
NA  
Nceh1  
Btl7-ps  
Gm26513  
Snord110  
Rab34

Snord8  
NA  
Slc22a13b-ps  
RP23-461O23.2  
NA  
4930405O22Rik  
6430590A07Rik  
St6gal1  
Fhl3  
NA  
NA  
Gm16764  
Gm5566  
Gm20682  
Ank1  
Gm29036  
NA  
Npy2r  
RP24-378J8.2  
RP23-103F2.2  
Cdk17  
Gm15793  
Tmem173  
RP24-511H12.2  
NA  
1110046J04Rik  
Rbpms  
Scin  
Cnep1r1



RP23-95I4.3

Prkg2

Il33

Gm27960

Parp8

Gm5590

Ccbe1

Maf

NA

RP23-447L15.3

Ap3m2

A330023F24Rik

NA

E230013L22Rik

Gm15226

Phactr1

Gm14537

Hlf

Tmem150a

Mical2

Proz

Snord11

Rps19-ps7

Vmn1r53

NA

Ogfrl1

Gde1

Clca1

Cdkl5

RP23-16D16.5  
Nrp1  
Siglecf  
Gm22858  
Megf9  
Gm10634  
Man2a2  
Angptl4  
3110070M22Rik  
Mfhas1  
Urad  
Snord4a  
Abcb1a  
Rnu73b  
Rgs19  
Slc2a7  
NA  
Ddhd2  
Gm10447  
Sgk2  
Tnfrsf12a  
Gm25360  
Kitl  
D130043K22Rik  
NA  
Sprr2a3  
NA  
Foxd2  
RP23-114N13.2

Gm24920  
RP24-282D16.11  
NA  
1700034P13Rik  
Acot6  
Thpo  
Ddx60  
NA  
RP24-167M10.4  
RP23-75P5.3  
NA  
NA  
RP23-445K23.3  
Gm26744  
Gm26870  
NA  
F3  
Pde8a  
Fam198b  
Adcy8  
NA  
3110021N24Rik  
Gm26175  
RP23-412L18.4  
Gm25188  
1810064F22Rik  
Acer3  
Ugt1a1  
Plau

RP23-232K16.4  
NA  
Sema3d  
Npc1l1  
Nmrk1  
NA  
NA  
Gm23472  
Fcna  
Mpp4  
NA  
Spire1  
Gm26535  
Gm28791  
Gm6587  
Apol9b  
Spta1  
Gyk  
NA  
Mpp1  
NA  
Gm20703  
Akr1c19  
Gm23136  
Zfp385a  
WI1-817D1.2  
A930001C03Rik  
RP23-61D6.3  
Gm26493

NA  
Fam129a  
RP23-353G11.6  
Gm16464  
Ept1  
Gm11470  
NA  
4930539E08Rik  
NA  
Gm23105  
NA  
Acn9  
NA  
Zbp1  
Anxa5  
Acat3  
Gpm6b  
RP24-310B3.2  
NA  
9530046B11Rik  
5033423K11Rik  
Gm13594  
NA  
Dmxl2  
St3gal1  
Zcchc3  
Fas  
Slco2a1  
Sord

Gda  
Gm19325  
BC089597  
Apob  
NA  
RP24-378J8.1  
S100a1  
RP23-412L18.3  
NA  
NA  
Gm12506  
NA  
Alox5  
mt-Ta  
Fam69a  
Fabp2  
Erich5  
Gm26669  
Bach2  
Cxcl11  
Upk1b  
NA  
Ppm1m  
6330562C20Rik  
Gm24924  
9330179D12Rik  
Trim30a  
Erich4  
Msn

Cfap44  
Cpeb3  
Aldh3b1  
RP24-571N3.1  
Gm24119  
NA  
Gm13786  
4930563E18Rik  
Gm5620  
Gm7120  
Krt222  
NA  
Gm17193  
Mttp  
NA  
Acot9  
NA  
RP24-92A2.1  
Sec16b  
Gm25636  
Zfp286  
Arg2  
NA  
Fam110b  
Gm15368  
Gm22952  
NA  
RP23-175G2.3  
NA

NA  
NA  
Ctgf  
Klb  
Basp1  
Prkcb  
RP23-415C3.6  
NA  
NA  
Gm15344  
Wfdc15b  
NA  
Depdc7  
Snora23  
Itga9  
RP24-566B6.2  
RP24-546N2.4  
NA  
Gm23734  
Tgfb3  
RP24-260D21.1  
Krt20  
NA  
NA  
RP24-458F14.4  
Clec2d  
NA  
Apobec1  
Sepp1



Ltk  
RP23-175G2.2  
Gm19967  
Snrpn  
NA  
Snord53  
Gm16035  
Atp4a  
Pdk4  
NA  
Casp4  
Ceacam20  
Gm26690  
Bmx  
Gm16236  
RP23-16D16.4  
mt-Tp  
RP23-61D6.5  
Ly6a  
5730405O15Rik  
Snord92  
Ank  
Arl4c  
NA  
RP24-574O8.8  
Pam  
Jak3  
RP23-170E22.1  
Lgmn

Gm11373  
Ackr4  
Armc2  
Oplah  
Mfap3l  
Cfap69  
Rab30  
Gm12892  
Plekhs1  
Pcsk5  
Gm24233  
Ndrp1  
Gm24727  
RP24-227F14.1  
Gm9923  
Gm1866  
NA  
Cd300f  
NA  
Mir7-1  
Ntng2  
Cadm4  
Adap2  
NA  
Col27a1  
NA  
9630028B13Rik  
Gm5549  
Sat1

Mpz  
Setbp1  
Rgs5  
NA  
RP23-328J8.4  
Capn3  
NA  
RP24-327F2.1  
Fgl2  
H2-Q10  
Vnn1  
Hoxb3  
Shroom1  
1700125G22Rik  
Aebp1  
NA  
Zdhhc17  
Cfi  
Hnf4g  
Acadl  
NA  
Cep85l  
Gm13152  
NA  
Apbb1ip  
Unc79  
NA  
Pxdc1  
Slc25a36

Clca5  
NA  
Slc39a8  
Fam149a  
Clec2f  
NA  
RP23-232K16.3  
Rgs13  
Gm12996  
Gstt1  
2010003K11Rik  
NA  
1700011H14Rik  
Emid1  
RP23-346I1.2  
Hkdc1  
Ifi27I2b  
Tmigd1  
NA  
NA  
Clmp  
NA  
Nenf  
Oas3  
Snord73a  
9230105E05Rik  
Snord72  
Gm16200  
RP23-114N13.4

Slc5a11  
1700023E05Rik  
Gm23301  
NA  
RP23-175G2.4  
Ak1  
NA  
Mypn  
RP24-546N2.1  
NA  
Stard9  
Mir763  
Foxd2os  
Prrx1  
Gpr4  
Samd9l  
Itga5  
NA  
Akr1c14  
Plek  
Rab31  
NA  
Matk  
Mup-ps23  
Cfb  
4930599N23Rik  
Slc4a3  
Gm17194  
Gm14057

Celf4  
Lrrc19  
Plscr4  
Mir99ahg  
Ltbp3  
Fgd3  
Tc2n  
Hmgcs2  
G630018N14Rik  
Pla2g12b  
Gm29488  
RP24-546N2.3  
Abhd3  
Smad9  
Cda  
Hcn1  
RP23-34E15.4  
Ifit3  
Reep1  
Gm12785  
NA  
RP23-298I7.2  
Ces2d-ps  
Slc16a2  
NA  
NA  
Lphn3  
Ccdc39  
NA

Cxcl9  
9130008F23Rik  
Gm28730  
Ifi44  
Snx32  
NA  
P4ha2  
NA  
Pcp4l1  
Hif3a  
Gm26287  
Zfp286os  
Abcc5  
RP24-441N3.3  
Gm15987  
Pdzd7  
NA  
Gm14446  
NA  
Slc25a4  
NA  
Gm13151  
NA  
Malrd1  
NA  
Ccdc88b  
Mical1  
NA  
NA

Ube2e2  
Gm26624  
NA  
Map2  
Akr1b7  
NA  
RP23-264G9.1  
Kcnv2  
Atp8a1  
Gm4952  
Aldoc  
D7Ert715e  
Tnfsf13b  
Lama3  
Saa3  
Acyp2  
mt-Te  
Gm22328  
2010106E10Rik  
Gm14935  
Nrgn  
Cped1  
4930581F22Rik  
Abcb1b  
Fgl1  
NA  
NA  
NA  
Sh3kbp1



Ptgs2  
Il34  
NA  
Nav1  
Gm17709  
1700120B22Rik  
mt-Ti  
NA  
Cxcl10  
Gm16348  
NA  
Gm25291  
Atp2b2  
Ifitm1  
RP24-386D8.2  
Cyp3a25  
2200002J24Rik  
Arsi  
Lrrn1  
NA  
RP23-30D21.3  
Gdpd2  
Snord71  
Egfl7  
Gcnt1  
Btl2  
Me1  
Plekhg6  
NA

Tuba3  
Gm22571  
Htra1  
Akt3  
NA  
Ablim3  
RP23-59N8.3  
Ak7  
Cmtm8  
Zbtb46  
Cyp2c44  
Cryz  
Pip4k2a  
NA  
Hsd17b13  
Ms4a18  
Gpr126  
Nxpe3  
Lrrc39  
Gm10814  
Pla2g4c  
NA  
Ifi27  
Gm13835  
NA  
Bmp2  
NA  
Slc9b2  
Gsta4

Papss2  
Arhgap6  
NA  
NA  
Serpina3g  
Tnip3  
NA  
Tifa  
NA  
Akr1d1  
n-R5s174  
Barx2  
Igf2bp3  
Asz1  
Gchfr  
RP23-273N4.8  
Vnn3  
RP24-574O8.9  
Acot2  
BC064078  
Glis3  
Mboat1  
Gm26129  
Nr1h4  
F10  
Npl  
NA  
Gm15528  
RP23-180F3.2

Slc51b  
Gm12042  
Klf8  
Serpinh1  
RP24-290F15.1  
Gm20513  
Xkr9  
Ccdc169  
Gm6652  
NA  
RP23-56C10.3  
Nkx1-2  
Gm26839  
NA  
Gm15222  
Ank2  
Adh4  
NA  
Slc27a5  
NA  
Prdm1  
NA  
Pkd2l2  
NA  
NA  
Adamts12  
Ncoa7  
Nlrp9b  
NA

Wfdc16  
RP24-300L5.1  
Best3  
Syde1  
Cxcl1  
Alpk1  
Cmb1  
NA  
Trim58  
Cacna1d  
Gm19503  
Gm16238  
Itgad  
Insl3  
RP24-429G21.7  
Me3  
NA  
NA  
Alox15  
Sult1a1  
Itga1  
Slc16a9  
Gm25980  
Bmp4  
Sucnr1  
Mir452  
Ppp2r2b  
Lrrtm2  
Ppfia2

Gm11440  
Dzip1l  
Mbl2  
Mir1931  
NA  
Mme  
Snord91a  
Rmdn2  
Eif4ebp3  
NA  
RP23-81L22.3  
4930402H24Rik  
NA  
Gm4211  
NA  
Glpr1  
Dscaml1  
Cpn2  
Neu3  
Gm3470  
Fam189a2  
Bnip3  
Plagl1  
Gm22672  
NA  
Dusp22  
NA  
D330045A20Rik  
Slc16a7

Tmem88b  
RP23-447L15.2  
Tmem140  
NA  
NA  
Gm26861  
Acsn5  
Ugt2a3  
Gpr85  
RP24-152K14.1  
Apoc3  
Gm12343  
Fah  
Asgr2  
4933440J02Rik  
Gm21814  
Olfml1  
Mir1960  
Bmf  
Lin7a  
NA  
Gm12202  
Muc3  
C4b  
Fgf16  
Nkain4  
Angptl1  
Ifi27l2a  
Ermpd4

Icam1  
Tdrp  
Pdgfrl  
Tns1  
2210407C18Rik  
NA  
1700001D01Rik  
NA  
RP23-103F2.4  
Adora2b  
Tgm1  
Gm11837  
Spns3  
Jakmip2  
NA  
Zc2hc1c  
Amer2  
Ppargc1a  
Sis  
Agr3  
Gm15611  
Nox1  
Gm29571  
Abcc2  
NA  
Gpr155  
Gm26109  
NA  
Trpm6



NA  
Greb1l  
Gm3534  
NA  
NA  
Lrp3  
Lhfpl1  
D830044D21Rik  
NA  
Sh3tc1  
NA  
RP24-227F14.4  
RP23-20I9.1  
RP23-65G17.3  
Slfn2  
Bbs9  
NA  
Rgn  
Gm26620  
NA  
Pdilt  
Gm22786  
C430002N11Rik  
Gm3629  
Creb3l3  
Adamts15  
NA  
NA  
Arhgef17

Serp2  
NA  
Tnfrsf8  
Gm8989  
NA  
Gm4117  
Stard8  
Lmo2  
Nr0b2  
mt-Ty  
Atp6v0a4  
NA  
NA  
Gm26027  
Mmp16  
Gm12224  
Slc10a2  
B230216N24Rik  
RP24-244I20.2  
Arhgef40  
NA  
NA  
Arxes2  
NA  
Apba2  
Timp1  
NA  
Gm5699  
Prokr1

Prodh2  
Fmo5  
Cyp2c70  
Nfe2  
Gm25931  
Csf1  
Dhrs9  
NA  
1700047117Rik2  
RP23-386K20.6  
B430306N03Rik  
Mir5123  
lgkc  
Gm10704  
Chrna4  
NA  
Psg25  
NA  
Vmn2r26  
Etv4  
Gm7457  
Smim1  
Btn1a1  
NA  
Gm21887  
Fam169b  
Slc9a3  
Kifc3  
Psg26

2610042L04Rik  
Cym  
Gm15270  
Gm14341  
4932435O22Rik  
NA  
Dab2  
Ugt2b36  
Mcoln3  
Clec2e  
Sult1c2  
NA  
Amph  
Ggh  
Gm6682  
NA  
Gdf11  
Pde7b  
Tlr5  
NA  
NA  
Mal  
Speer4c  
Gm25235  
NA  
2810468N07Rik  
NA  
Fam177a  
Gm10800

Pdzd2  
Zfp385b  
NA  
Prl6a1  
Apol10a  
Smlr1  
Gnb4  
NA  
Gm10406  
Ppp1r16b  
Eif3s6-ps2  
Adamts9  
Hamp2  
Plod2  
Tenm3  
NA  
Gm3005  
Gm11771  
Gja6  
Cpb2  
NA  
Slc19a3  
NA  
RP23-260J11.3  
Ppp1r1a  
NA  
RP24-252G15.5  
Pld5  
NA

Ces1g  
Cyp2c65  
Daw1  
Gm22105  
Gm10287  
Fam65c  
Lrp2  
Gm2061  
Gm26809  
Apol7b  
Ugt2b5  
Anxa9  
Gm25842  
Cpvl  
Gm12737  
Asgr1  
NA  
Gm8878  
Fam198a  
Msrb2  
Fam102b  
Gm22303  
Csgalnact1  
Rgs6  
Sox18  
Pik3c2g  
Grpr  
NA  
Grik4

Plcd3  
Far2os2  
1700018A04Rik  
Hapln1  
Mir194-1  
Rps19-ps6  
Gprasp2  
Spink3  
Cyp3a16  
NA  
NA  
Cyp2c53-ps  
Clu  
Inmt  
Gm17383  
Slc23a2  
Abca8b  
Col4a5  
Cyp2c67  
Mpped2  
NA  
D730048I06Rik  
Rerg  
Spcs2-ps  
Gm12764  
Gm3054  
Gm20706  
NA  
Cpne8

NA  
Reg3a  
Gm12408  
NA  
Clec4a1  
Slc40a1  
Daam2  
RP24-150H14.2  
NA  
Ifit1  
Mup-ps17  
Lrrc8c  
NA  
Inf2  
Ppef1  
KI  
NA  
Tex12  
RP24-17007.1  
Gm14150  
Ceacam18  
Tfr2  
NA  
Cyp2c66  
Krtap3-1  
Ugt1a9  
Retnlb  
CH25-241D1.1  
I830012O16Rik



Gm3173  
Cyp2c68  
Gbp11  
Nxpe2  
Gm23034  
Lppr1  
Mettl7a2  
4930526L06Rik  
NA  
Gm19744  
NA  
Hc  
1700064M15Rik  
NA  
Pid1  
Cxcl2  
NA  
Gm2956  
Cyp2c40  
RP23-145F12.1  
Lcn2  
A830011K09Rik  
Dact1  
Igf2bp1  
Afm  
Mfsd7c  
Adh6a  
Ptrpq  
Gm20630

Glyat  
Steap4  
Gm10801  
RP23-361M12.2  
Acot3  
Gm15895  
B3galt5  
1810065E05Rik  
Slc12a4  
1700006J14Rik  
4732463B04Rik  
1700029M03Rik  
Sntg1  
NA  
Gm10409  
Flrt2  
Acsl6  
Mgat4c  
Rpl15-ps2  
Lect2  
Al838599  
Drd3  
Aqp9  
Gpr64  
RP24-375D13.1  
Fhod3  
Rasal1  
NA  
Lmo3

NA  
SrpX2  
Cyp2c38  
Slc25a21  
Gm26671  
NA  
Gm7967  
Gpc3  
3930402G23Rik  
NA  
Gm15592  
Gm28644  
NA  
Slc30a10  
NA  
Pla2g1b  
Gm13481  
Anxa6  
Tmem26  
Gm3756  
Apol7e  
NA  
Pde10a  
Lama1  
NA  
Gm15261  
Reg3d  
NA  
Gm21857

Rasgrp3  
NA  
NA  
Tmem27  
Slc13a1  
Bcl2a1d  
NA  
Gm766  
S100g  
Col1a2  
Aspdh  
Gm26794  
Cyp2c55  
Ros1  
NA  
5830473C10Rik  
NA  
Gm20472  
Mill1  
Cfh  
Gm4477  
NA  
Cyp3a44  
NA  
Reg3b  
Reg3g  
Gm24725  
Sema3a  
NA

Kcnj3  
Pla2r1  
Gpr151  
NA  
Ugt1a8  
NA  
Cacna1e  
Pate4  
Gm3030  
Apol11b  
Ltbp1  
Ccl24  
RP24-351P4.1  
Thsd4  
Slc8a3  
NA  
Hgf  
Slc5a8  
Kcnt2  
Chil6  
Ddx4  
NA  
Prr5l  
NA  
Tenm1  
Fbxl7  
Cxcl5  
NA  
Gm21392

NA  
Reg1  
NA  
NA  
NA  
Acot5  
Trpc3  
Abcb11  
NA  
NA  
Adam5  
Caln1  
NA  
Serpina3i  
NA  
Gm4425