

SYMBOL	Case_AC	gnomAD_AC	OR	CI_from	CI_to	P value	Bonferroni corrected_p value
A1BG	3	1686.477916	12.01013	3.699465	38.99032	0.002481	1
A2M	1	5917.042011	1.064197	0.14618	7.747396	0.614194	1
AADACL2	1	685.2581327	9.38485	1.287512	68.40742	0.103491	1
AAED1	1	460.085877	13.99047	1.918035	102.0489	0.070755	1
AAK1	2	2443.713434	5.363974	1.293321	22.24677	0.057813	1
AARS	1	8354.566458	0.746226	0.102508	5.432299	1	1
AARS2	2	10286.27976	1.234192	0.297705	5.116585	0.679016	1
ABCA10	1	2908.3814	2.191611	0.300993	15.95772	0.372072	1
ABCA13	4	17555.25921	1.480663	0.526958	4.160413	0.359847	1
ABCA3	1	2524.468234	2.528804	0.347285	18.41384	0.332084	1
ABCA4	1	5958.798935	1.05656	0.145131	7.691789	0.616824	1
ABCA5	1	2481.745124	2.572779	0.353322	18.73418	0.327563	1
ABCA6	1	5679.289731	1.109821	0.152446	8.079596	0.598953	1
ABCA7	1	13011.92236	0.469952	0.064559	3.420964	0.722651	1
ABCB1	1	2549.220608	2.504001	0.34388	18.23317	0.334762	1
ABCB9	1	1280.940271	5.008642	0.687589	36.4847	0.184868	1
ABCC10	2	4484.811894	2.898804	0.699114	12.01959	0.159597	1
ABCC11	1	6634.123932	0.946396	0.130001	6.889682	1	1
ABCF3	1	2944.713518	2.164255	0.297237	15.75846	0.375799	1
ABHD10	1	688.9183829	9.334852	1.280663	68.04247	0.104063	1
ABHD16A	1	574.5706337	11.19772	1.535804	81.64388	0.08763	1
ABHD2	1	54.10203329	119.1679	16.08287	882.9892	0.00871	1
ABHD8	1	440.8819468	14.60099	2.001551	106.5118	0.067938	1
ABI1	1	443.7496802	14.50646	1.988621	105.8207	0.068383	1
ABLIM3	1	1872.298097	3.418584	0.469417	24.89622	0.258432	1
ABTB1	1	1220.067234	5.259818	0.722044	38.3158	0.176881	1
ABTB2	1	577.8114816	11.13477	1.527185	81.18414	0.088066	1
ACAD10	1	12959.3972	0.47196	0.064835	3.435587	0.722573	1
ACAD8	2	4060.298315	3.207383	0.77351	13.29951	0.136251	1
ACAD9	1	5091.943795	1.240794	0.170433	9.033271	0.55881	1
ACD	1	559.7119381	11.49567	1.576598	83.82	0.085446	1
ACE	3	10552.25933	1.851355	0.570734	6.005452	0.235222	1
ACOT11	2	1287.989966	10.22434	2.463994	42.42586	0.01802	1
ACOT13	2	442.2006459	29.88091	7.186681	124.2394	0.002319	1
ACOXL	6	10727.57962	3.960683	1.66246	9.436023	0.006644	1
ACSM1	1	5943.642134	1.059319	0.14551	7.711883	0.615887	1
ACSM2A	1	1088.938419	5.896287	0.809338	42.95634	0.159472	1
ACTL7A	1	8066.464702	0.773794	0.106294	5.633008	1	1
ACTL7B	1	1160.94825	5.52897	0.758961	40.2781	0.169085	1
ACTR3C	2	9136.322992	1.39616	0.336768	5.78815	0.656793	1
ACVRL1	1	683.9832417	9.40239	1.289915	68.53546	0.103348	1
ADAD2	1	1622.186162	3.949621	0.542292	28.76586	0.228139	1
ADAM17	1	2436.383012	2.621158	0.359963	19.0866	0.322577	1
ADAM20	1	1412.790633	4.538811	0.623135	33.05996	0.201891	1
ADAM7	1	1878.599065	3.407031	0.467832	24.81205	0.259263	1
ADAM8	1	9776.876373	0.633937	0.087084	4.614792	1	1
ADAMTS1	1	5654.022655	1.114895	0.153143	8.116543	0.597318	1
ADAMTS1	1	9785.313171	0.633369	0.087006	4.610652	1	1
ADAMTS1	1	5363.689707	1.176631	0.161622	8.566069	0.577876	1
ADAMTS1	1	633.1599567	10.15917	1.39358	74.06015	0.096027	1
ADAMTS2	1	11055.23145	0.557668	0.076608	4.059538	1	1
ADAMTS5	2	9027.739483	1.413586	0.340971	5.860404	0.654905	1
ADAMTS7	1	2578.623526	2.475157	0.33992	18.02306	0.33796	1
ADAMTS9	1	2736.315326	2.331037	0.320135	16.97328	0.354458	1
ADAMTSL	1	3613.407918	1.758994	0.241594	12.80689	0.439498	1
ADAMTSL	1	12459.25364	0.491935	0.067579	3.581003	0.722331	1
ADAP1	1	343.7310061	18.735	2.566665	136.7535	0.053425	1
ADAT1	2	1074.850493	12.26223	2.954497	50.89265	0.012828	1
ADC	1	7115.748497	0.880605	0.120965	6.410661	1	1
ADCK2	1	1266.364071	5.066588	0.695538	36.90712	0.182911	1
ADCK4	2	7907.094928	1.621388	0.391086	6.722045	0.359589	1
ADCY6	2	6791.866868	1.896263	0.457374	7.861857	0.294176	1
ADGB	1	1924.27393	3.325553	0.456649	24.21838	0.264585	1
ADPRHL1	1	11130.90895	0.553702	0.076063	4.030666	1	1
ADRA1A	1	7179.701998	0.872532	0.119856	6.351888	1	1
AFAP1	1	1661.615939	3.855289	0.529348	28.07842	0.233066	1
AFF1	1	2022.505109	3.162789	0.43431	23.03248	0.276163	1
AGAP3	2	1303.48062	10.1022	2.434591	41.91855	0.018414	1
AGAP6	2	5148.998339	2.518088	0.607319	10.44059	0.197398	1
AGBL1	1	5243.505654	1.204188	0.165406	8.766723	0.569566	1
AGMAT	1	638.5822934	10.07269	1.381735	73.42875	0.096891	1
AGR3	2	355.7999999	37.14982	8.928322	154.5765	0.00152	1

AGRN	2	18546.77429	0.661058	0.159466	2.740383	0.76718	1
AGT	1	1053.650849	6.094617	0.836536	44.40256	0.15476	1
AHCY	1	4122.555358	1.538587	0.211328	11.20177	0.483819	1
AHDC1	1	3506.791709	1.813252	0.249044	13.20204	0.429831	1
AH11	5	9278.278212	3.729413	1.460768	9.521377	0.015367	1
AHNAK	5	24836.97708	1.303696	0.510713	3.327941	0.591114	1
AHNAK2	3	60736.16452	0.254659	0.078516	0.825963	0.014583	1
AHSG	1	5399.142133	1.168737	0.160537	8.508586	0.58027	1
AIFM2	1	1880.645968	3.403295	0.467319	24.78483	0.2595	1
AIM1	1	14372.90696	0.423024	0.058113	3.079334	0.727738	1
AIM1L	1	4298.947195	1.474404	0.202514	10.73439	0.498306	1
AK8	2	10087.55023	1.259543	0.303819	5.221696	0.674958	1
AKAP12	3	8104.038881	2.435142	0.750668	7.899516	0.137679	1
AKAP13	3	16360.21599	1.165331	0.359267	3.77991	0.743811	1
AKAP5	1	945.9158126	6.791684	0.932117	49.48624	0.140058	1
AKAP9	1	4839.027441	1.306985	0.179523	9.515254	0.540324	1
AKR1C3	1	12784.5516	0.478766	0.06577	3.48513	0.722387	1
AKT1S1	1	145.4637045	44.3058	6.046631	324.6442	0.022958	1
ALDH1A3	1	201.8516654	31.92166	4.364587	233.4682	0.031781	1
ALDH1B1	1	2250.509132	2.839762	0.389971	20.67909	0.302157	1
ALDH3B2	1	6560.0037	0.957379	0.131509	6.969648	1	1
ALDH4A1	1	6394.372833	0.982842	0.135007	7.155043	1	1
ALDH7A1	1	648.4725673	9.918674	1.360639	72.30432	0.098186	1
ALDH9A1	1	7588.520069	0.824145	0.11321	5.999591	1	1
ALG1	1	584.6977665	11.00333	1.509186	80.22421	0.089083	1
ALKBH8	1	7835.379247	0.797372	0.109533	5.804666	1	1
ALOX15	1	8720.661716	0.713823	0.098057	5.196388	1	1
ALOXE3	1	1316.725064	4.871824	0.668821	35.48735	0.189545	1
ALPK1	2	14952.47567	0.832615	0.200847	3.451628	1	1
ALPK2	3	25939.88128	0.705028	0.217365	2.28677	0.794539	1
ALPK3	1	8412.987387	0.740866	0.101772	5.393275	1	1
ALX1	2	1663.374628	7.905066	1.905516	32.79429	0.028928	1
AMER2	2	3609.392015	3.614643	0.871691	14.98884	0.112471	1
AMOTL1	1	1110.883532	5.779302	0.793294	42.10333	0.162421	1
AMPD1	3	10682.65949	1.827766	0.563463	5.928924	0.240799	1
AMY2B	4	11398.017	2.340543	0.832936	6.576908	0.106288	1
ANAPC2	1	684.9259945	9.389413	1.288138	68.44073	0.103491	1
ANGPTL4	1	4234.234626	1.49733	0.205663	10.90133	0.493002	1
ANGPTL5	2	8087.652141	1.584015	0.382073	6.567078	0.370044	1
ANK1	2	5593.006494	2.314008	0.55811	9.594227	0.223286	1
ANK2	2	11518.78668	1.096503	0.264496	4.545701	0.705662	1
ANKLE2	1	4907.932491	1.288276	0.176954	9.379018	0.545439	1
ANKMY1	1	6430.736657	0.977139	0.134223	7.113521	1	1
ANKRD24	6	15103.26976	2.762075	1.159424	6.580039	0.031041	1
ANKRD45	1	1475.737587	4.344116	0.596422	31.64091	0.209894	1
ANKRD50	1	728.4361858	8.827043	1.211088	64.33611	0.109618	1
ANKS1B	2	8465.616036	1.510944	0.364451	6.26409	0.391674	1
ANKS6	1	2095.232204	3.052116	0.419119	22.22616	0.284472	1
ANKUB1	1	3136.529791	2.03033	0.27885	14.78303	0.394797	1
ANLN	1	1539.479822	4.163186	0.571597	30.32226	0.217818	1
ANO10	1	17770.97569	0.337232	0.046328	2.454799	0.364999	1
ANO6	1	3680.253588	1.726579	0.237143	12.57082	0.445526	1
ANO7	4	6664.424638	4.081899	1.452469	11.47143	0.021124	1
ANPEP	1	2246.984493	2.844257	0.390588	20.71184	0.301708	1
ANTXR2	1	934.4617668	6.875246	0.943574	50.09573	0.138409	1
ANXA10	1	2055.465777	3.11166	0.427292	22.65998	0.279868	1
ANXA11	1	4633.472409	1.366105	0.187642	9.94575	0.524716	1
ANXA5	1	863.7955078	7.439801	1.020968	54.21389	0.128729	1
ANXA6	1	1142.75221	5.617416	0.771092	40.92296	0.166692	1
AP1S3	1	4249.700383	1.491787	0.204902	10.86097	0.494313	1
AP2A2	1	320.1245856	20.11844	2.755622	146.8821	0.0498	1
AP4E1	1	617.8021598	10.41235	1.428256	75.90872	0.093862	1
AP5Z1	1	2650.934989	2.40694	0.330555	17.52616	0.345577	1
APAF1	2	1123.768467	11.72616	2.82549	48.66511	0.013954	1
APBA3	2	6453.849371	1.998335	0.481989	8.285133	0.274153	1
APC2	2	6491.926783	1.986306	0.479088	8.235248	0.276405	1
APLF	2	8319.937282	1.538322	0.371053	6.37761	0.383354	1
APLP1	2	1755.29371	7.488347	1.805143	31.06421	0.031922	1
APMAP	1	7612.028672	0.82152	0.11285	5.980484	1	1
APOB	1	23212.73447	0.252164	0.034642	1.835542	0.176551	1
AQP7	1	1294.46888	4.956028	0.680372	36.10116	0.18656	1
AQP8	1	3906.884126	1.624937	0.223186	11.8306	0.465482	1
ARAP1	1	2039.268924	3.136578	0.430712	22.84152	0.278018	1

ARAP2	1	2806.930966	2.271749	0.311995	16.54142	0.361787	1
ARAP3	2	6583.954607	1.957806	0.472216	8.117066	0.281857	1
ARFGEF2	1	891.1131366	7.210943	0.989596	52.54439	0.132476	1
ARHGAP1	1	3709.318754	1.712849	0.235257	12.47083	0.448115	1
ARHGAP2	2	3212.186438	4.068123	0.981005	16.87007	0.092602	1
ARHGAP2.	1	1880.544158	3.403481	0.467344	24.78618	0.2595	1
ARHGAP2.	1	1409.826461	4.548408	0.624451	33.12991	0.201508	1
ARHGAP3	3	6740.569966	2.944118	0.907531	9.551007	0.091573	1
ARHGAP3.	1	1815.525878	3.526286	0.484198	25.68099	0.251748	1
ARHGAP3.	2	3357.122239	3.890219	0.938122	16.13203	0.09973	1
ARHGAP3.	1	162.2335609	39.72332	5.424955	290.8673	0.025598	1
ARHGAP8	1	5984.89783	1.05184	0.144483	7.657427	0.618444	1
ARHGEF2	2	6437.243626	2.003626	0.483265	8.307073	0.273145	1
ARHGEF2	1	4856.091646	1.302302	0.17888	9.481155	0.541589	1
ARID1A	1	795.6426495	8.079273	1.108617	58.87937	0.119224	1
ARL13B	1	2738.444808	2.329205	0.319883	16.95993	0.354666	1
ARMC3	1	4324.121218	1.465671	0.201315	10.67079	0.500331	1
ARPC1B	1	892.974705	7.195857	0.987528	52.43435	0.132752	1
ARR3	1	2418.204147	2.641055	0.362694	19.23154	0.320616	1
ARRDC1	1	5272.936923	1.197324	0.164463	8.71674	0.571588	1
ARSK	1	1008.518129	6.368508	0.874094	46.39991	0.148665	1
ARVCF	1	4550.555073	1.391464	0.191125	10.13042	0.518361	1
ASB11	1	2582.584815	2.471321	0.339394	17.99512	0.338386	1
ASB16	1	7508.753269	0.833172	0.11445	6.065317	1	1
ASB18	1	2714.755165	2.349754	0.322704	17.10961	0.352275	1
ASCC2	1	2597.974851	2.456529	0.337363	17.88737	0.339979	1
ASCC3	2	1379.299751	9.544	2.300197	39.60006	0.020467	1
ASH1L	1	2524.916362	2.528351	0.347223	18.41054	0.332192	1
ASMTL	4	4632.034818	5.921659	2.106856	16.64377	0.00621	1
ASPG	2	4497.949446	2.890183	0.697035	11.98384	0.160323	1
ASPM	2	14740.87423	0.845323	0.203912	3.504311	1	1
ASPSCR1	1	1319.510586	4.861486	0.667402	35.41199	0.189934	1
ASXL1	1	3109.907901	2.04793	0.281266	14.91122	0.39216	1
ASXL2	1	2279.457036	2.803373	0.384976	20.414	0.305285	1
ASXL3	2	3310.533398	3.945706	0.951497	16.36222	0.097452	1
ATAD2B	1	583.1754788	11.03212	1.513129	80.43446	0.088792	1
ATAD3C	1	5149.208994	1.22671	0.168499	8.930715	0.562874	1
ATF6B	2	1735.482359	7.57443	1.825878	31.42159	0.031261	1
ATG4C	1	982.6993258	6.536504	0.89713	47.6251	0.145123	1
ATG4D	1	1193.133421	5.379132	0.738409	39.18566	0.173322	1
ATG9A	1	678.7725086	9.474766	1.299831	69.06377	0.102633	1
ATM	4	13369.77488	1.978976	0.704281	5.560774	0.161757	1
ATMIN	1	3409.615161	1.865662	0.25624	13.58373	0.420843	1
ATP10B	2	11035.95791	1.146778	0.276621	4.754148	0.695	1
ATP1A3	1	255.8593122	25.17811	3.446033	183.9615	0.040068	1
ATP1A4	1	7360.674235	0.850449	0.116823	6.191108	1	1
ATP2A1	1	838.9387422	7.660993	1.051287	55.82757	0.125247	1
ATP2B4	1	2583.246792	2.470681	0.339306	17.99046	0.338386	1
ATP4A	2	5318.7823	2.436027	0.587532	10.10026	0.207266	1
ATP4B	1	1656.719812	3.866758	0.530922	28.162	0.232451	1
ATP5J2-P	1	4716.404101	1.341633	0.184281	9.767549	0.531066	1
ATP6V0A2	1	10795.11372	0.571723	0.078539	4.161862	1	1
ATP6V0E1	1	43.64049885	147.7411	19.85463	1099.363	0.007132	1
ATP7A	1	2569.342298	2.48419	0.34116	18.08886	0.336896	1
ATP8A1	1	1820.883947	3.515834	0.482764	25.60484	0.252347	1
ATPIF1	1	90.1990228	71.46754	9.714028	525.7973	0.014371	1
ATXN2	1	1430.26787	4.483036	0.615482	32.65343	0.204058	1
ATXN2L	4	3799.811575	7.242938	2.576726	20.35923	0.003093	1
AVEN	1	5453.467889	1.156839	0.158903	8.421952	0.583938	1
AVL9	1	742.5655781	8.658596	1.188007	63.10679	0.111746	1
AVPR1A	1	2559.610187	2.493733	0.34247	18.15837	0.335936	1
AXL	1	2236.550349	2.857645	0.392426	20.80938	0.300587	1
AZ11	1	4728.591956	1.338109	0.183798	9.741887	0.532053	1
B3GALT6	1	505.9670166	12.71949	1.744121	92.76042	0.077541	1
B3GNT8	1	939.7310406	6.836552	0.938269	49.8135	0.139234	1
B9D2	1	205.4306144	31.36508	4.288844	229.3784	0.032243	1
BAAT	1	925.3469708	6.943221	0.952893	50.59154	0.137171	1
BACH1	1	819.9882269	7.838637	1.075636	57.12362	0.122591	1
BACH2	1	5162.293416	1.223535	0.168063	8.907602	0.563795	1
BAI2	1	4475.798179	1.415133	0.194375	10.30277	0.512475	1
BAIAP3	3	6725.614839	2.950845	0.909604	9.572835	0.091109	1
BANK1	2	4169.973314	3.121641	0.752839	12.94386	0.142215	1
BAZ2A	1	1500.678639	4.271492	0.586458	31.1116	0.213047	1

BAZ2B	2	10123.46066	1.254889	0.302696	5.202397	0.675669	1
BBS12	2	2772.179838	4.722178	1.138651	19.58367	0.072007	1
BBS5	1	2871.239794	2.220293	0.304931	16.16663	0.368323	1
BCAN	2	8061.191688	1.589388	0.383369	6.589354	0.368488	1
BCCIP	1	110.7964094	58.17674	7.923223	427.1663	0.017658	1
BCHE	3	3772.915569	5.323643	1.640712	17.27371	0.022104	1
BCKDHA	1	2856.249991	2.23208	0.306549	16.25248	0.366797	1
BCL2L14	1	13651.02399	0.44675	0.061372	3.252055	0.724329	1
BCL9	1	999.7411701	6.424644	0.881792	46.8093	0.14744	1
BCO2	1	3844.073835	1.651906	0.226889	12.02701	0.460014	1
BCR	1	2156.511088	2.964659	0.407115	21.589	0.291552	1
BDH2	1	3415.721293	1.862281	0.255776	13.55911	0.421403	1
BEST2	1	2913.915041	2.187401	0.300415	15.92705	0.372678	1
BICC1	1	2513.403758	2.540049	0.348829	18.49576	0.330903	1
BIN2	1	3919.856956	1.619474	0.222435	11.79082	0.466603	1
BLOC1S3	1	6827.862786	0.918815	0.126213	6.688865	1	1
BLVRA	2	2314.626971	5.666057	1.366115	23.50036	0.052536	1
BLZF1	1	2140.572265	2.986925	0.410171	21.75121	0.289732	1
BMP1	2	2392.2683	5.480457	1.321391	22.73014	0.055664	1
BMP10	1	1991.82066	3.211907	0.441051	23.39035	0.272557	1
BMP2K	3	8969.997093	2.192227	0.675799	7.111371	0.170429	1
BMP3	3	6606.845838	3.005349	0.926401	9.749694	0.087461	1
BMPER	1	1948.567413	3.283773	0.450915	23.91396	0.267526	1
BMPR2	1	678.400297	9.479979	1.300545	69.10182	0.10249	1
BMS1	1	7983.884698	0.782063	0.10743	5.69321	1	1
BOC	1	2139.404843	2.988569	0.410397	21.76319	0.289504	1
BOD1L1	2	4657.394706	2.789436	0.672745	11.56598	0.169254	1
BPIFB3	1	4475.305109	1.415292	0.194397	10.30393	0.512396	1
BRAT1	1	3417.245633	1.861439	0.25566	13.55297	0.421496	1
BRCA2	1	5408.303888	1.166713	0.160259	8.493854	0.580884	1
BRD4	3	3863.721296	5.19662	1.601581	16.86138	0.023508	1
BRD8	2	4926.378828	2.634257	0.635329	10.92238	0.184557	1
BRD9	1	377.2077267	17.07002	2.339149	124.5691	0.058387	1
BRIP1	1	1689.821973	3.79051	0.520459	27.60636	0.236496	1
BRPF3	2	2874.301214	4.552533	1.097764	18.8798	0.076633	1
BSG	1	1974.761126	3.239876	0.44489	23.59413	0.270572	1
BSN	2	7633.990651	1.681276	0.405529	6.970373	0.343716	1
BTD	4	9275.751884	2.901475	1.032518	8.153424	0.05909	1
BTN3A1	1	1450.546518	4.420004	0.606834	32.19402	0.206727	1
BTNL2	1	7140.665851	0.877442	0.12053	6.387637	1	1
BTNL8	2	7555.340048	1.699326	0.409882	7.045219	0.339102	1
BUD13	1	4324.81664	1.465432	0.201282	10.66905	0.500412	1
C10ORF2	1	227.0715258	28.37341	3.881503	207.4069	0.035626	1
C11ORF31	1	1297.614242	4.943953	0.678715	36.01314	0.18708	1
C11ORF4C	1	1321.118643	4.855537	0.666586	35.36862	0.190063	1
C11ORF82	1	8723.898296	0.713549	0.09802	5.194391	1	1
C14ORF37	1	1021.129884	6.289535	0.863265	45.82399	0.150294	1
C16ORF11	1	3992.503565	1.58954	0.218325	11.57283	0.472857	1
C16ORF62	3	4121.455689	4.86658	1.499903	15.79009	0.027733	1
C16ORF71	1	559.3187116	11.50377	1.577707	83.87916	0.0853	1
C16ORF7E	1	5471.058287	1.153037	0.158381	8.394269	0.585154	1
C16ORF9E	2	7881.077911	1.626914	0.392419	6.74496	0.358082	1
C17ORF1C	1	4719.396958	1.340766	0.184162	9.761235	0.531294	1
C17ORF64	1	611.4987999	10.51995	1.442992	76.69436	0.092851	1
C17ORF8C	1	566.096154	11.36574	1.558808	82.87098	0.08632	1
C17ORF8E	1	7397.927658	0.846038	0.116217	6.158988	1	1
C19ORF6E	1	193.5398534	33.29367	4.551245	243.5529	0.030548	1
C19ORF77	2	2365.882215	5.542166	1.336261	22.98622	0.054601	1
C1ORF10E	2	4629.138333	2.806784	0.676927	11.63794	0.167675	1
C1ORF12E	1	1268.829821	5.056692	0.694181	36.83498	0.183302	1
C1ORF127	1	337.6022574	19.07558	2.61319	139.2466	0.05252	1
C1ORF167	1	6032.132043	1.043403	0.143324	7.595995	0.621354	1
C1ORF16E	1	17053.44289	0.352501	0.048425	2.565945	0.521904	1
C1ORF204	1	5192.678342	1.216226	0.167059	8.854377	0.565986	1
C1ORF35	1	2345.667014	2.72352	0.374015	19.83227	0.312716	1
C1ORF50	4	3539.645434	7.783465	2.768922	21.87939	0.0024	1
C1ORF63	2	10553.83676	1.201569	0.289836	4.981323	0.684628	1
C1QTNF6	1	6543.346005	0.959882	0.131853	6.987869	1	1
C20ORF1E	2	1459.469586	9.016849	2.173265	37.41079	0.022727	1
C20ORF1E	1	594.6874366	10.81806	1.483817	78.87126	0.090534	1
C20ORF2E	2	3454.895308	3.778637	0.911224	15.66914	0.104634	1
C21ORF3E	2	3146.083081	4.154705	1.001875	17.22927	0.08941	1
C2CD3	1	13887.46592	0.438707	0.060267	3.193505	0.725276	1

C2ORF16	1	1359.110977	4.71909	0.647868	34.37401	0.194969	1
C2ORF57	1	6457.011236	0.973059	0.133663	7.083811	1	1
C2ORF61	1	4972.004666	1.271344	0.174629	9.255725	0.550134	1
C2ORF80	1	247.0420184	26.07767	3.568671	190.5597	0.038692	1
C2ORF81	1	2812.59744	2.267121	0.31136	16.50771	0.362402	1
C3ORF17	2	22355.56458	0.539464	0.130136	2.236295	0.578515	1
C4ORF45	1	2456.491181	2.599492	0.356989	18.92877	0.324749	1
C5ORF47	3	7218.520343	2.743815	0.8458	8.901061	0.106887	1
C6ORF201	1	3345.715719	1.901784	0.2612	13.84681	0.414837	1
C6ORF52	1	211.7616088	30.4266	4.161101	222.4839	0.033321	1
C6ORF57	1	3796.873186	1.672761	0.229753	12.17888	0.4559	1
C6ORF89	1	526.1744209	12.23002	1.677127	89.18428	0.080476	1
C7ORF34	1	1493.51603	4.2921	0.589285	31.2618	0.212165	1
C7ORF72	1	472.2528637	13.62936	1.86863	99.40949	0.07253	1
C8A	1	8500.647638	0.732962	0.100686	5.335728	1	1
C8ORF76	1	2651.907949	2.406048	0.330433	17.51966	0.345682	1
C9ORF89	1	749.551717	8.577655	1.176915	62.5161	0.112737	1
CABIN1	2	9582.366215	1.328722	0.320503	5.508527	0.664991	1
CABP2	1	387.0944771	16.63338	2.279464	121.3747	0.059885	1
CACNA1A	1	1149.383533	5.584858	0.766626	40.68558	0.16749	1
CACNA1B	1	1358.219997	4.722202	0.648295	34.3967	0.194841	1
CACNA1F	3	6820.318839	2.908745	0.896629	9.436227	0.094035	1
CACNA1I	1	1462.365771	4.384073	0.601905	31.93214	0.208122	1
CACNA1S	1	6900.087559	0.908929	0.124855	6.616888	1	1
CACNA2D	2	9838.792037	1.29272	0.31182	5.359253	0.669975	1
CALCOCO	1	2070.458656	3.088942	0.424174	22.49446	0.281598	1
CAMSAP1	1	1856.570359	3.447761	0.473422	25.10882	0.256647	1
CAMTA1	1	1141.209931	5.625042	0.772138	40.97857	0.166425	1
CAND2	2	8904.268304	1.433917	0.345874	5.944705	0.65279	1
CAPN1	2	2271.100241	5.775659	1.392525	23.95521	0.050779	1
CAPN12	1	6848.450993	0.915976	0.125823	6.668193	1	1
CAPN13	2	4645.387173	2.796782	0.674516	11.59645	0.168577	1
CAPN14	1	8816.301897	0.705801	0.096955	5.137986	1	1
CAPN15	1	1226.957437	5.230137	0.717972	38.09942	0.177802	1
CAPN2	1	1836.172741	3.486346	0.478717	25.38997	0.254142	1
CAPN9	2	6930.456523	1.85729	0.447976	7.700248	0.302338	1
CAPRIN1	1	176.422598	36.52645	4.990751	267.3309	0.027766	1
CAPRIN2	1	2850.480957	2.236649	0.307176	16.28576	0.366186	1
CAPS	2	5304.463805	2.442744	0.589152	10.12812	0.206393	1
CAPS2	1	1571.020921	4.079088	0.560058	29.70937	0.221813	1
CAPZA3	1	5543.122252	1.137713	0.156277	8.282692	0.589982	1
CARD14	2	4595.631723	2.827632	0.681954	11.7244	0.165817	1
CASC3	1	1973.665215	3.241689	0.445139	23.60734	0.270455	1
CASKIN1	2	4214.328112	3.088232	0.744784	12.80529	0.144617	1
CASP6	1	321.404655	20.03821	2.744666	146.2946	0.049951	1
CAST	1	3067.321208	2.07672	0.285219	15.1209	0.387937	1
CASZ1	1	4804.488231	1.316565	0.180839	9.585015	0.537708	1
CATSPER3	1	341.2605685	18.87082	2.585218	137.7476	0.052972	1
CATSPERC	1	2901.826099	2.19662	0.301681	15.9942	0.371466	1
CAV2	1	226.3039475	28.46973	3.894624	208.114	0.035473	1
CBR3	1	624.602247	10.29871	1.412692	75.07899	0.094873	1
CC2D1B	1	1545.787326	4.146094	0.569252	30.1977	0.218693	1
CC2D2A	1	4725.578116	1.338978	0.183917	9.74822	0.531825	1
CCAR2	1	1420.291949	4.514704	0.619827	32.88425	0.202784	1
CCBE1	1	1511.806655	4.239862	0.582118	30.88108	0.214431	1
CCDC105	1	3672.639101	1.730212	0.237641	12.59728	0.444899	1
CCDC116	1	28572.51733	0.200052	0.027483	1.456198	0.08192	1
CCDC120	1	608.9444757	10.56418	1.44905	77.01736	0.092561	1
CCDC125	1	1830.385008	3.497451	0.480241	25.47089	0.253425	1
CCDC130	2	5398.827187	2.399129	0.578635	9.947237	0.21193	1
CCDC136	1	11848.17749	0.51863	0.071246	3.775337	1	1
CCDC141	3	11444.37199	1.700718	0.524302	5.516746	0.42881	1
CCDC147	1	3186.58501	1.998035	0.274415	14.54782	0.399652	1
CCDC150	1	1983.708544	3.225147	0.442869	23.48682	0.271624	1
CCDC152	1	1167.200514	5.499216	0.75488	40.06116	0.169881	1
CCDC158	1	1693.494792	3.782233	0.519323	27.54605	0.236863	1
CCDC180	1	10228.87204	0.604792	0.083081	4.402606	1	1
CCDC183	1	1263.49716	5.078142	0.697123	36.99135	0.182519	1
CCDC28B	1	9717.507568	0.637967	0.087638	4.644129	1	1
CCDC51	1	1654.088312	3.872951	0.531772	28.20713	0.232083	1
CCDC60	1	6855.051239	0.915069	0.125698	6.661592	1	1
CCDC62	3	10216.53471	1.914857	0.590307	6.211471	0.221081	1
CCDC64B	1	7019.121913	0.89308	0.122678	6.501494	1	1

CCDC68	1	6819.172951	0.920018	0.126378	6.697628	1	1
CCDC74A	1	4061.442582	1.562124	0.21456	11.37318	0.478619	1
CCDC74B	2	1727.56904	7.609367	1.834294	31.56663	0.031031	1
CCDC81	1	5905.663117	1.066297	0.146468	7.762686	0.613502	1
CCDC88A	1	5306.418226	1.189607	0.163404	8.660553	0.573879	1
CCDC89	1	1743.572233	3.672867	0.504314	26.74909	0.243069	1
CCDC94	1	916.2346596	7.012529	0.962395	51.09708	0.13593	1
CCNDBP1	1	1116.529052	5.74995	0.789269	41.88931	0.163223	1
CPCG1	2	952.8133117	13.83952	3.334	57.44825	0.010208	1
CCR5	1	4303.120553	1.472949	0.202315	10.72379	0.498631	1
CCRN4L	1	4123.738797	1.538138	0.211266	11.1985	0.483903	1
CCSER1	1	3552.597993	1.789542	0.245788	13.02936	0.434046	1
CCSER2	2	597.8565301	22.08752	5.316505	91.76299	0.004172	1
CD109	1	17736.13648	0.337945	0.046426	2.459988	0.527544	1
CD163L1	2	5336.50135	2.427763	0.58554	10.06599	0.208315	1
CD247	1	187.3828566	34.38848	4.700134	251.6029	0.029467	1
CD33	1	386.3345468	16.66615	2.283943	121.6145	0.059735	1
CD34	1	1457.227386	4.399623	0.604038	32.04547	0.207488	1
CDAN1	1	2621.998015	2.433787	0.334241	17.72171	0.342519	1
CDC25C	3	7010.60276	2.827594	0.87162	9.172907	0.100102	1
CDC42BP1	1	784.7849963	8.191406	1.123984	59.69757	0.117677	1
CDC42EP4	1	392.7542085	16.39332	2.246646	119.6187	0.060783	1
CDC6	1	4127.375575	1.53676	0.211077	11.18847	0.484153	1
CDC7	1	1084.361911	5.921281	0.812766	43.13859	0.158801	1
CDH19	1	5556.765128	1.134857	0.155884	8.261895	0.590914	1
CDH23	1	3100.529776	2.054202	0.282127	14.9569	0.391279	1
CDHR2	4	21726.47131	1.175062	0.418205	3.301659	0.774924	1
CDK5RAP2	5	10509.79093	3.275669	1.283075	8.362731	0.024862	1
CDK7	1	4225.843621	1.500354	0.206078	10.92335	0.492346	1
CDKL1	1	414.4192509	15.53497	2.129286	113.3409	0.06392	1
CDKN1A	1	712.2834528	9.027799	1.238595	65.80131	0.107343	1
CDRT1	1	2441.625456	2.615475	0.359183	19.0452	0.323229	1
CDSN	2	8042.200561	1.593265	0.384304	6.605433	0.367392	1
CELA1	1	1331.855433	4.816187	0.661188	35.08179	0.191486	1
CELSR2	3	7132.149836	2.778024	0.856343	9.012063	0.104027	1
CEP164	1	2443.209129	2.613763	0.358948	19.03273	0.323338	1
CEP170	1	3577.793403	1.776759	0.244033	12.93626	0.436324	1
CEP290	2	17967.19875	0.684079	0.165019	2.835825	1	1
CEP350	1	26318.37132	0.219382	0.030139	1.596911	0.120684	1
CEP57	2	1967.82681	6.673891	1.608944	27.68327	0.039297	1
CEP63	2	1333.791937	9.871429	2.379031	40.96	0.01924	1
CEP68	1	3389.263028	1.877019	0.257799	13.66644	0.418879	1
CERKL	1	1446.643944	4.431997	0.60848	32.28143	0.20622	1
CES1	1	13511.87181	0.451614	0.06204	3.287471	0.723851	1
CES2	1	831.0347284	7.734101	1.061308	56.36094	0.124129	1
CES3	1	6183.03751	1.017312	0.139741	7.406019	1	1
CES5A	2	8907.238324	1.433422	0.345755	5.94265	0.65284	1
CFB	3	10280.95494	1.90235	0.586452	6.170896	0.223768	1
CFD	1	4336.822825	1.461304	0.200715	10.63899	0.501381	1
CFDP1	1	605.3841323	10.62646	1.457579	77.47213	0.091983	1
CFHR2	2	12327.0044	1.02116	0.246323	4.233325	1	1
CFTR	5	11299.33669	3.036799	1.189526	7.752792	0.032599	1
CGB2	1	5254.235102	1.201677	0.165061	8.748437	0.570264	1
CGN	1	14165.89208	0.42958	0.059014	3.127065	0.726608	1
CGNL1	1	2677.636657	2.382683	0.327225	17.34946	0.348411	1
CGRRF1	1	1887.710393	3.390463	0.465558	24.69133	0.26033	1
CHAC2	1	930.8256905	6.902203	0.947269	50.29235	0.137997	1
CHD1	1	2648.164336	2.409486	0.330905	17.5447	0.345261	1
CHD2	1	380.2677465	16.93245	2.320345	123.5626	0.058836	1
CHD6	1	5913.244793	1.064897	0.146276	7.752492	0.613942	1
CHGA	1	2532.674586	2.520527	0.346149	18.35355	0.333049	1
CHM	1	1313.153509	4.885145	0.670648	35.58445	0.189027	1
CHPT1	1	2072.452564	3.085945	0.423763	22.47263	0.281828	1
CHRD12	2	4254.068962	3.058891	0.73771	12.68359	0.146808	1
CHRNA5	1	9662.122903	0.641771	0.08816	4.671823	1	1
CHRND	1	2585.610935	2.468398	0.338992	17.97383	0.338705	1
CHRNE	1	967.089286	6.642425	0.911653	48.39761	0.142936	1
CIAO1	1	524.2546086	12.2749	1.68327	89.51216	0.080183	1
CIAPIN1	1	656.1467087	9.802367	1.344708	71.45524	0.099336	1
CIDEC	1	6199.121821	1.014606	0.139369	7.386316	1	1
CILP2	1	1458.556854	4.395589	0.603485	32.01607	0.207742	1
CITED4	1	3255.532558	1.955176	0.268531	14.23567	0.406288	1
CKAP2	1	1784.457702	3.588127	0.492685	26.1316	0.247903	1

CKAP5	2	1356.403437	9.705993	2.3392	40.27286	0.019836	1
CKMT1B	1	279.0395175	23.0844	3.160465	168.6111	0.043577	1
CLASP2	1	2255.652175	2.833229	0.389074	20.6315	0.302716	1
CLCA1	1	2446.289002	2.61044	0.358492	19.00852	0.323664	1
CLCA2	1	1223.717585	5.244051	0.719881	38.20086	0.177407	1
CLCNKB	1	7693.350382	0.812565	0.11162	5.915287	1	1
CLDN16	1	1870.255622	3.422345	0.469933	24.92363	0.258194	1
CLEC4G	1	103.1588456	62.48587	8.504616	459.1017	0.016407	1
CLHC1	1	9521.243525	0.651646	0.089517	4.743717	1	1
CLIC5	2	5826.633198	2.219115	0.535228	9.200695	0.237053	1
CLIP1	2	3245.327127	4.026042	0.970862	16.6955	0.09421	1
CLK4	1	1267.704605	5.061203	0.694799	36.86787	0.183172	1
CLN8	1	338.0785003	19.04867	2.609515	139.0496	0.05252	1
CLPS	2	5782.375932	2.236502	0.539421	9.272802	0.234401	1
CLSPN	1	3106.549081	2.050172	0.281574	14.92755	0.391867	1
CLSTN2	1	2200.20128	2.90528	0.398964	21.1564	0.296422	1
CLTCL1	1	11996.27148	0.511911	0.070323	3.726422	1	1
CMYA5	1	9483.711464	0.654326	0.089885	4.763231	1	1
CNGB1	2	8107.899528	1.579928	0.381088	6.550131	0.371195	1
CNOT10	1	2014.104738	3.176087	0.436135	23.12937	0.275118	1
CNPPD1	1	5927.603585	1.062255	0.145913	7.733258	0.614884	1
CNTLN	1	5776.329745	1.090745	0.149826	7.940703	0.605234	1
CNTNAP3	1	5371.126215	1.174967	0.161393	8.553949	0.578356	1
CNTNAP4	1	5643.262047	1.11707	0.153442	8.132378	0.596597	1
CNTRL	1	5557.83333	1.134634	0.155854	8.260271	0.590981	1
COCH	1	1556.022987	4.118652	0.565486	29.9977	0.219942	1
COL11A1	2	1743.374812	7.539902	1.817561	31.27824	0.031525	1
COL11A2	1	11772.29136	0.522138	0.071728	3.800878	1	1
COL12A1	4	14062.07585	1.876078	0.667666	5.271601	0.28348	1
COL14A1	3	4324.875201	4.633868	1.428207	15.03475	0.031357	1
COL1A1	1	996.4427699	6.445995	0.884719	46.96502	0.146896	1
COL20A1	1	5661.225548	1.113444	0.152944	8.105977	0.597777	1
COL21A1	1	2268.232334	2.817373	0.386898	20.51599	0.304058	1
COL27A1	1	3587.58283	1.771841	0.243358	12.90045	0.437233	1
COL2A1	1	1084.278721	5.921737	0.812828	43.14192	0.158801	1
COL4A6	1	1879.742826	3.404943	0.467545	24.79683	0.259381	1
COL5A1	2	8295.418102	1.543024	0.372187	6.397108	0.381925	1
COL5A2	2	1817.598725	7.229851	1.742876	29.99109	0.03404	1
COL5A3	1	15043.41848	0.403026	0.055366	2.933755	0.732165	1
COL6A2	1	5887.345589	1.069694	0.146935	7.787423	0.612304	1
COL6A3	3	11304.27208	1.7228	0.531109	5.588387	0.426383	1
COL6A5	1	7079.164013	0.885288	0.121608	6.44476	1	1
COL6A6	5	25932.73808	1.242573	0.48677	3.171903	0.601346	1
COL7A1	1	5004.130785	1.263017	0.173485	9.195094	0.552464	1
COL9A1	1	2879.170144	2.214107	0.304081	16.12157	0.369135	1
COL9A2	1	2825.926454	2.256306	0.309875	16.42894	0.363734	1
COLGALT1	1	1164.9081	5.510088	0.756371	40.14043	0.169615	1
COLGALT2	1	1159.319016	5.536776	0.760032	40.33501	0.168819	1
COMMD1	1	4352.063621	1.456096	0.2	10.60107	0.50259	1
COQ2	1	189.9839565	33.91731	4.636063	248.1381	0.02993	1
COQ3	1	212.7996308	30.27806	4.140879	221.3928	0.033475	1
CORO1A	1	861.6303787	7.45856	1.023539	54.35074	0.128451	1
CORO6	1	3651.003756	1.740617	0.23907	12.67305	0.442925	1
CORO7-P.	1	3718.787262	1.708423	0.234649	12.43859	0.449005	1
CP	1	9901.435375	0.62564	0.085945	4.554385	1	1
CPA1	1	847.6737792	7.581785	1.04043	55.2497	0.126502	1
CPA3	4	5014.30229	5.461748	1.943285	15.35065	0.008163	1
CPAMD8	1	10302.29519	0.600299	0.082464	4.369896	1	1
CPEB2	1	664.4446105	9.679631	1.327895	70.55924	0.100484	1
CPN2	1	145.1929137	44.38848	6.05784	325.254	0.022958	1
CPVL	2	6757.149395	1.906276	0.459789	7.90338	0.292104	1
CPZ	1	3786.700812	1.677323	0.230379	12.21211	0.455021	1
CR1	2	3687.441085	3.537021	0.852979	14.66685	0.1165	1
CRELD2	3	5692.991259	3.500791	1.079078	11.35741	0.061705	1
CRHR2	1	3406.109734	1.867608	0.256507	13.59791	0.420469	1
CRIM1	1	570.5883982	11.27605	1.546529	82.21596	0.087048	1
CRIP1	2	2379.552562	5.510024	1.328516	22.85284	0.055172	1
CRISP2	2	4639.470332	2.800416	0.675392	11.61153	0.168238	1
CRLF2	2	4561.570593	2.849139	0.687139	11.81361	0.163907	1
CROCC	7	29643.08674	1.587544	0.702221	3.589036	0.320218	1
CRTAC1	1	6299.109744	0.998093	0.137101	7.26609	1	1
CRTAM	1	1389.623302	4.614908	0.633575	33.61463	0.19895	1
CRTAP	1	2465.550349	2.589846	0.355665	18.8585	0.325833	1

CRYAA	1	182.2072525	35.36601	4.833034	258.7928	0.028694	1
CRYBA4	1	4488.959533	1.410909	0.193795	10.27201	0.5135	1
CSF2RB	1	9210.493589	0.674497	0.092656	4.910079	1	1
CSMD1	1	7685.370872	0.813436	0.111739	5.921623	1	1
CSMD2	1	6490.378083	0.967924	0.132958	7.046429	1	1
CSMD3	1	12026.30607	0.510568	0.070138	3.716649	1	1
CSNK1G2	1	170.2860177	37.84368	5.169709	277.026	0.026838	1
CSPG4	1	23913.4688	0.244024	0.033524	1.776284	0.176424	1
CSPG5	1	395.7818934	16.26772	2.229475	118.7	0.061232	1
CSRP2BP	3	7754.653073	2.54851	0.785608	8.267354	0.125183	1
CTC1	1	3553.192854	1.789238	0.245746	13.02714	0.434046	1
CTSF	2	1246.242945	10.5686	2.546869	43.85591	0.016936	1
CTTNBP2	4	10001.93378	2.682749	0.954696	7.538673	0.073641	1
CUBN	2	23927.7908	0.500559	0.120751	2.075011	0.584638	1
CUL7	2	9181.270372	1.389068	0.335057	5.758742	0.657591	1
CUL9	2	4346.16939	2.992954	0.721813	12.4101	0.151875	1
CUX1	1	3035.642837	2.098659	0.288231	15.28069	0.384875	1
CUX2	1	767.1021088	8.380822	1.149942	61.07973	0.11514	1
CYP1A1	1	8393.723077	0.742625	0.102013	5.406083	1	1
CYP20A1	1	420.0085207	15.32789	2.100969	111.8266	0.064814	1
CYP27A1	2	6376.76888	2.023127	0.487967	8.387941	0.269589	1
CYP2A6	1	9149.876675	0.679135	0.093293	4.943847	1	1
CYP2D6	1	5277.642682	1.196233	0.164314	8.7088	0.571936	1
CYP2E1	2	1284.821943	10.24968	2.470094	42.53112	0.017942	1
CYP3A43	3	7055.786378	2.808968	0.86588	9.112468	0.101555	1
CYP4A22	2	10176.97231	1.248014	0.301038	5.173891	0.676772	1
CYP4F2	1	14039.06887	0.433693	0.059578	3.157002	0.725974	1
CYP4F3	1	2030.825754	3.149725	0.432517	22.93731	0.277091	1
CYP7A1	1	1410.282866	4.546928	0.624248	33.11912	0.201508	1
DAB2IP	1	2288.106524	2.792679	0.383508	20.33609	0.306288	1
DACT3	1	4065.106509	1.560693	0.214364	11.36275	0.478956	1
DAPK2	1	2669.743849	2.389802	0.328202	17.40132	0.347572	1
DARC	2	731.2908817	18.04773	4.34591	74.94878	0.006147	1
DBH	1	4690.086387	1.349305	0.185335	9.823417	0.529086	1
DCAF4	1	2349.692062	2.71881	0.373368	19.79797	0.313158	1
DCAKD	1	8971.595338	0.69314	0.095216	5.04581	1	1
DCC	1	3509.564709	1.811799	0.248844	13.19145	0.430107	1
DCDC2B	1	2714.325368	2.35013	0.322756	17.11235	0.352171	1
DCHS1	1	4553.595243	1.390518	0.190995	10.12353	0.518595	1
DCHS2	1	4873.841328	1.297466	0.178216	9.44594	0.542926	1
DCLRE1C	1	1422.655096	4.507162	0.618792	32.82928	0.203167	1
DCP1B	3	6807.469006	2.914389	0.898369	9.454539	0.093628	1
DCST1	2	1784.307601	7.365726	1.775606	30.55515	0.03289	1
DDB1	1	552.8371416	11.63894	1.596213	84.86649	0.084425	1
DDI1	1	1383.94798	4.633938	0.636186	33.75333	0.198181	1
DDIT3	1	557.9313263	11.53244	1.581632	84.08856	0.085154	1
DDRK1	4	5851.162981	4.664692	1.659781	13.10977	0.013764	1
DDX11	1	3764.349525	1.687435	0.231767	12.28574	0.452994	1
DDX19B	1	2537.847185	2.515338	0.345436	18.31575	0.333585	1
DDX28	1	1005.80447	6.38576	0.87646	46.52572	0.148257	1
DDX31	1	2505.571171	2.54807	0.34993	18.55418	0.33015	1
DDX53	1	2665.00409	2.394098	0.328792	17.43261	0.347048	1
DDX55	1	4243.549138	1.493987	0.205204	10.87699	0.493822	1
DECR2	1	1114.084734	5.762622	0.791007	41.98171	0.162822	1
DEF8	1	476.1629047	13.51724	1.853288	98.58999	0.073121	1
DEFA4	1	5145.078444	1.227715	0.168637	8.938036	0.56259	1
DENND2A	1	1965.377632	3.255467	0.44703	23.70772	0.269402	1
DENND2C	1	3429.195543	1.854863	0.254757	13.50508	0.422614	1
DEPDC5	1	4345.389893	1.458372	0.200313	10.61764	0.502027	1
DFNB31	1	3386.688899	1.878465	0.257998	13.67698	0.418691	1
DFNB59	1	609.8258485	10.54888	1.446954	76.9056	0.092706	1
DGAT2	1	599.9454307	10.72303	1.470803	78.17727	0.091258	1
DGCR2	1	699.8544576	9.188582	1.260624	66.97483	0.105633	1
DGKQ	1	4096.299173	1.548613	0.212705	11.27479	0.481561	1
DHODH	1	7628.63899	0.819676	0.112596	5.967054	1	1
DHRX	1	4337.727041	1.460994	0.200673	10.63673	0.501462	1
DHTKD1	3	2510.836688	8.040342	2.477442	26.09429	0.00748	1
DHX33	2	5555.049925	2.330179	0.562009	9.66129	0.221057	1
DHX35	1	11080.47089	0.556339	0.076426	4.049865	1	1
DHX37	4	8452.791523	3.194779	1.136871	8.977812	0.044694	1
DIEXF	2	5287.690772	2.45066	0.59106	10.16095	0.205462	1
DIP2B	2	5360.873905	2.416487	0.58282	10.01922	0.209713	1
DIS3L	1	2624.857409	2.431108	0.333873	17.7022	0.342836	1

DIS3L2	1	4171.741922	1.520144	0.208795	11.06747	0.487893	1
DKK2	1	7363.06821	0.850164	0.116784	6.189034	1	1
DLG1	1	15971.53425	0.378116	0.051944	2.752416	0.516701	1
DLG5	1	1946.791526	3.286791	0.451329	23.93596	0.267291	1
DLGAP5	1	22841.39217	0.25668	0.035262	1.868419	0.261837	1
DLL3	1	774.2091569	8.303653	1.139367	60.51662	0.116128	1
DMBT1	1	25443.61233	0.227806	0.031296	1.658232	0.181455	1
DMRT2	4	6643.53452	4.095084	1.45716	11.50849	0.020919	1
DMWD	1	4576.127702	1.383545	0.190037	10.07275	0.520307	1
DMXL2	3	1991.262314	10.15944	3.129862	32.97725	0.003949	1
DNAH1	12	38047.80983	2.404285	1.222503	4.728485	0.014198	1
DNAH10	7	35157.35456	1.305275	0.577371	2.950861	0.493775	1
DNAH12	2	19143.69308	0.638804	0.154098	2.648126	0.767156	1
DNAH14	1	16300.57407	0.369966	0.050824	2.693085	0.517768	1
DNAH17	2	4922.820675	2.636199	0.635798	10.93044	0.184385	1
DNAH2	1	34461.99022	0.161482	0.022184	1.175434	0.036392	1
DNAH3	2	31238.67219	0.371094	0.089521	1.538309	0.226875	1
DNAH5	3	13381.6928	1.44276	0.444787	4.679892	0.471169	1
DNAH6	3	24933.76595	0.736748	0.227144	2.389663	0.794131	1
DNAH7	1	36490.72533	0.151078	0.020755	1.099706	0.02397	1
DNAH9	1	25759.78461	0.224696	0.030868	1.635587	0.121049	1
DNAJA4	1	3404.226608	1.868656	0.256651	13.60553	0.420282	1
DNAJC10	2	6433.053393	2.004965	0.483588	8.312628	0.272908	1
DNASE1	2	5933.095903	2.178351	0.525398	9.031646	0.243309	1
DNASE1L2	1	697.3572758	9.221578	1.265144	67.21566	0.105205	1
DNASE2B	1	3225.86355	1.973394	0.271032	14.36835	0.403411	1
DNPEP	1	2821.423217	2.259949	0.310375	16.45547	0.363222	1
DOCK1	1	1108.650356	5.790995	0.794898	42.18859	0.162153	1
DOCK4	2	2330.748674	5.626501	1.356584	23.33621	0.053181	1
DOCK5	1	5392.118825	1.170292	0.160751	8.519914	0.579792	1
DOCK6	1	5042.390442	1.25324	0.172142	9.123896	0.555215	1
DOCK8	2	5885.086046	2.196551	0.529787	9.107122	0.240475	1
DOPEY1	2	1048.18311	12.57554	3.02989	52.19467	0.012225	1
DOPEY2	1	8270.293108	0.754091	0.103588	5.489562	1	1
DPT	1	4900.923761	1.290155	0.177212	9.3927	0.544923	1
DPYD	2	6219.330015	2.075673	0.500639	8.605847	0.260228	1
DPYS	1	623.9101375	10.31017	1.414261	75.16261	0.094729	1
DRD2	1	7181.910224	0.872256	0.119818	6.349877	1	1
DRD4	1	2143.625409	2.982634	0.409582	21.71995	0.290073	1
DROSHA	1	1674.855778	3.82461	0.525138	27.85485	0.23466	1
DSC3	1	6034.720367	1.042945	0.143261	7.592656	0.621539	1
DSG1	2	5352.143272	2.420514	0.583792	10.03593	0.209189	1
DSG3	2	7891.917386	1.624607	0.391863	6.735394	0.35872	1
DSG4	1	7520.847731	0.831791	0.11426	6.055262	1	1
DSP	4	17314.73668	1.502774	0.534826	4.222549	0.353413	1
DST	1	13454.97891	0.453633	0.062318	3.302162	0.723673	1
DTHD1	2	9626.778118	1.322349	0.318966	5.482104	0.665851	1
DUSP10	1	166.803623	38.63428	5.277087	282.8469	0.026373	1
DVL1	1	1437.091225	4.461628	0.612545	32.4974	0.204949	1
DYSF	1	12325.35805	0.497558	0.068351	3.621936	0.722424	1
DYTN	1	3944.137838	1.609346	0.221045	11.71707	0.468667	1
ECI1	1	3054.749245	2.085372	0.286407	15.18392	0.386754	1
ECM1	3	4664.048214	4.290994	1.322565	13.9219	0.037907	1
ECT2L	2	2205.549614	5.94888	1.434264	24.6741	0.048223	1
EDARADD	3	5442.653586	3.665541	1.129846	11.89206	0.055396	1
EDEM3	2	2854.811039	4.583974	1.105341	19.01025	0.075764	1
EEF1D	1	1653.385406	3.874608	0.531999	28.21921	0.23196	1
EEF2K	1	1838.906923	3.481124	0.478	25.35192	0.2545	1
EFCAB4B	1	1653.123384	3.875227	0.532084	28.22371	0.23196	1
EFS	1	4645.144208	1.362608	0.187162	9.920285	0.525639	1
EGFLAM	2	7000.958291	1.838057	0.443338	7.620492	0.306532	1
EHBP1	2	3085.907185	4.236749	1.021651	17.56965	0.086539	1
EHBP1L1	1	3494.134509	1.819913	0.249958	13.25055	0.428635	1
EHHADH	1	17245.85747	0.348282	0.047846	2.535232	0.523325	1
EIF4ENIF1	1	1436.511781	4.463438	0.612794	32.51059	0.204949	1
EIF5B	1	2117.364773	3.019944	0.414703	21.99177	0.286992	1
ELN	1	1787.804935	3.581361	0.491757	26.0823	0.248385	1
ELSPBP1	1	12764.67591	0.479551	0.065878	3.490847	0.722372	1
EMID1	1	4297.104454	1.475048	0.202603	10.73907	0.498144	1
EML2	1	8425.938832	0.739688	0.10161	5.384698	1	1
ENDOG	2	2842.153205	4.604623	1.110318	19.09592	0.075171	1
ENDOV	1	3356.164543	1.895783	0.260376	13.8031	0.415779	1
ENPP1	2	9107.383003	1.400764	0.337878	5.807239	0.656282	1

ENPP2	2	2616.562427	5.006155	1.207091	20.76198	0.065166	1
ENTPD6	1	650.0861153	9.893992	1.357258	72.12413	0.098474	1
EP300	1	2167.330134	2.949732	0.405066	21.48025	0.292688	1
EP400	1	13316.3039	0.458624	0.063003	3.338496	0.723282	1
EPB41	1	11861.35109	0.518025	0.071163	3.770936	1	1
EPB41L4A	1	4525.943856	1.39917	0.192183	10.18653	0.516407	1
EPB41L5	1	1606.051929	3.989556	0.547772	29.05689	0.22616	1
EPCAM	1	857.1272146	7.497881	1.028929	54.63759	0.127756	1
EPG5	2	10119.86485	1.255353	0.302808	5.204323	0.675608	1
EPHA10	1	4176.794137	1.518274	0.208539	11.05385	0.488307	1
EPHA2	2	7161.642747	1.795636	0.433108	7.444584	0.31603	1
EPHB2	1	2265.512644	2.820786	0.387366	20.54085	0.303834	1
EPN3	1	9417.009061	0.659143	0.090547	4.798296	1	1
EPS15	1	5031.42593	1.256027	0.172525	9.144189	0.55442	1
EPS8L2	1	6512.883618	0.964491	0.132486	7.021431	1	1
EPYC	3	11078.09092	1.75963	0.542461	5.707872	0.25776	1
ERAP2	3	25059.79079	0.732636	0.225876	2.376322	0.794102	1
ERCC2	1	1736.921072	3.687029	0.506258	26.85229	0.24222	1
ERCC4	1	5756.474764	1.094596	0.150355	7.96874	0.603947	1
ERCC5	4	12352.32556	2.151135	0.76554	6.044596	0.131868	1
ERI1	1	160.5173471	40.14831	5.482646	293.9979	0.025443	1
ESD	1	160.9308468	40.04508	5.468635	293.2375	0.025443	1
ESPNL	1	12498.73157	0.490301	0.067354	3.569102	0.722317	1
ESYT1	2	6201.477458	2.0818	0.502116	8.631254	0.259162	1
ESYT2	1	2041.471441	3.133167	0.430244	22.81666	0.278249	1
ESYT3	2	2856.832388	4.580693	1.104551	18.99664	0.075855	1
ETNK1	1	83.92770596	76.80972	10.43183	565.5511	0.013429	1
ETS1	1	723.3837795	8.888874	1.21956	64.78737	0.108908	1
ETV2	1	463.4422974	13.88896	1.904148	101.3069	0.071199	1
ETV4	2	5195.234638	2.495209	0.601802	10.34571	0.200062	1
ETV7	2	6362.83033	2.027674	0.489064	8.406797	0.26876	1
EVA1C	2	2258.381535	5.808482	1.400434	24.09143	0.050264	1
EVPL	1	13035.35904	0.469061	0.064437	3.414478	0.722688	1
EXD1	1	1545.692462	4.14635	0.569287	30.19956	0.218693	1
EXD3	1	12100.89004	0.507263	0.069684	3.692589	1	1
EXO1	2	9243.340521	1.379387	0.332723	5.7186	0.658702	1
EXOC3L1	2	7049.457866	1.825049	0.440201	7.566552	0.309366	1
EXOG	1	2357.839257	2.709327	0.372066	19.72888	0.314039	1
EXOSC10	1	756.6180353	8.497306	1.165905	61.92975	0.113727	1
EXOSC8	1	3116.987757	2.04322	0.280619	14.87691	0.392845	1
F13B	1	2202.334764	2.90244	0.398575	21.13571	0.296648	1
FAH	2	5331.062598	2.430294	0.58615	10.07649	0.207965	1
FAHD2B	1	960.111615	6.690886	0.918297	48.75106	0.141978	1
FAM110A	1	3372.333032	1.886571	0.259111	13.73601	0.417284	1
FAM115A	1	1053.57371	6.095065	0.836598	44.40583	0.15476	1
FAM117A	1	171.6101366	37.55148	5.130018	274.8751	0.027147	1
FAM129B	1	830.4201627	7.739844	1.062095	56.40284	0.123989	1
FAM131C	1	4108.963629	1.543761	0.212039	11.23945	0.482649	1
FAM136A	1	925.9882705	6.938395	0.952231	50.55633	0.137308	1
FAM13C	1	1451.190994	4.41803	0.606564	32.17963	0.206727	1
FAM154A	1	11523.73788	0.533953	0.073351	3.886892	1	1
FAM162B	1	5182.953553	1.218556	0.167379	8.871344	0.56528	1
FAM166A	3	8778.642894	2.24178	0.691072	7.272145	0.16301	1
FAM170A	1	1094.310039	5.867219	0.805352	42.74438	0.160143	1
FAM173B	1	1195.387805	5.368939	0.737011	39.11135	0.173586	1
FAM175A	1	1188.445515	5.400452	0.741334	39.3411	0.172661	1
FAM179B	1	1607.568996	3.985767	0.547252	29.02927	0.226407	1
FAM194A	3	7052.749458	2.810212	0.866263	9.116506	0.101457	1
FAM205A	1	16421.36135	0.367056	0.050425	2.671902	0.518273	1
FAM208B	2	12367.3002	1.017661	0.24548	4.218819	1	1
FAM211B	1	1552.54897	4.127925	0.566759	30.06529	0.219568	1
FAM217A	1	2440.200276	2.617017	0.359395	19.05643	0.323012	1
FAM21C	5	17657.21935	1.891891	0.741109	4.829588	0.201051	1
FAM221A	1	1465.320919	4.37518	0.600684	31.86732	0.208502	1
FAM26E	2	1934.014197	6.791492	1.637275	28.17141	0.03808	1
FAM65A	1	2441.401788	2.615717	0.359216	19.04696	0.32312	1
FAM81A	1	2290.160406	2.790151	0.383161	20.31768	0.306511	1
FAM81B	1	1575.649878	4.067029	0.558403	29.62148	0.222435	1
FAM86B1	4	21466.24898	1.190653	0.423754	3.345471	0.773631	1
FAM86B2	2	15409.65012	0.806352	0.194512	3.342742	1	1
FAM9A	1	45.81961109	140.7136	18.92995	1045.978	0.007447	1
FANCA	1	2050.62366	3.119068	0.428309	22.71395	0.279406	1
FANCC	2	5349.37245	2.421795	0.5841	10.04124	0.209014	1

FANCL	1	1759.635318	3.639104	0.499681	26.50307	0.245007	1
FANCM	1	4941.078462	1.279462	0.175744	9.314836	0.547866	1
FANK1	2	5281.827143	2.453439	0.591731	10.17247	0.205113	1
FARP2	2	8926.910738	1.430147	0.344965	5.929071	0.653178	1
FARS2	2	1651.174555	7.963863	1.919678	33.03841	0.028546	1
FASN	2	3551.842781	3.674063	0.886015	15.23533	0.109552	1
FASTKD1	1	541.0444036	11.89319	1.631019	86.72364	0.082672	1
FAT1	2	12312.92546	1.022388	0.24662	4.238416	1	1
FAT2	3	19586.23931	0.960036	0.29598	3.113957	1	1
FAT4	4	21414.02668	1.193828	0.424883	3.354392	0.773385	1
FBN3	1	17592.7346	0.340909	0.046833	2.481562	0.526224	1
FBXL13	1	926.5029118	6.934526	0.951701	50.52812	0.137446	1
FCHSD1	1	6367.150081	0.987154	0.135599	7.186437	1	1
FCN1	2	1996.281231	6.578013	1.585845	27.2853	0.040311	1
FCRL1	1	6162.766012	1.020742	0.140212	7.430998	1	1
FDF1	1	1300.552875	4.932724	0.677175	35.93128	0.187469	1
FDPS	1	1296.459378	4.948379	0.679323	36.04541	0.18682	1
FFAR3	1	3123.325756	2.039022	0.280043	14.84634	0.393431	1
FGD2	2	1411.028672	9.328207	2.248238	38.70383	0.021359	1
FGFRL1	1	5593.315847	1.127274	0.154843	8.206676	0.593303	1
FGGY	1	13884.99284	0.43879	0.060279	3.194107	0.725267	1
FGL1	3	11069.46045	1.761065	0.542903	5.712528	0.257371	1
FHL3	1	1469.770897	4.361856	0.598856	31.77021	0.209135	1
FHOD1	1	1224.68807	5.239876	0.719308	38.17042	0.177539	1
FHOD3	1	4544.628542	1.393312	0.191378	10.14387	0.517892	1
FILIP1	2	6417.534417	2.009941	0.484788	8.333261	0.272019	1
FKBP15	3	8932.698124	2.201719	0.678725	7.142169	0.168984	1
FKTN	1	3389.075161	1.877125	0.257814	13.66721	0.418879	1
FLG	4	22743.55427	1.117545	0.397736	3.140037	0.780903	1
FLG2	2	9571.889038	1.330234	0.320868	5.514796	0.6648	1
FLNC	2	7829.000179	1.638086	0.395113	6.791286	0.355066	1
FLVCR2	2	2337.162599	5.610916	1.352828	23.27153	0.053423	1
FMN1	1	6782.142979	0.925182	0.127087	6.735221	1	1
FMN2	1	8070.104146	0.773434	0.106245	5.630384	1	1
FN1	2	11207.03836	1.128468	0.272205	4.678235	0.698749	1
FN3KRP	1	2878.923726	2.214299	0.304108	16.12297	0.369135	1
FNDC1	1	5720.252555	1.101169	0.151329	8.020391	0.60162	1
FNDC7	1	4619.922202	1.370187	0.188203	9.975474	0.523714	1
FOCAD	1	2261.95185	2.825266	0.387981	20.57349	0.303387	1
FOLR1	1	154.032558	41.83963	5.712168	306.4607	0.024357	1
FOS	1	1396.910846	4.590699	0.630253	33.43817	0.199846	1
FOXDL5	1	1986.321253	3.220871	0.442282	23.45566	0.271857	1
FOXEL	1	204.5559139	31.49931	4.307112	230.3647	0.032243	1
FOXF2	1	157.7253869	40.85944	5.579165	299.2372	0.024977	1
FOXJ2	1	379.680624	16.95867	2.323929	123.7545	0.058836	1
FOXX1	1	862.3758858	7.452091	1.022653	54.30354	0.128451	1
FOXM1	2	7835.043379	1.636782	0.394799	6.785878	0.355414	1
FOXSL	2	1275.354117	10.32616	2.488506	42.84881	0.017681	1
FPR2	1	1672.083706	3.830993	0.526014	27.90137	0.234292	1
FRAS1	4	13033.14079	2.032961	0.723491	5.712489	0.151587	1
FREM1	1	8407.93828	0.741326	0.101835	5.396627	1	1
FRMD3	3	8577.754576	2.296181	0.707839	7.448649	0.155317	1
FRMPD1	1	6620.725518	0.948363	0.130271	6.904005	1	1
FRMPD2	1	4168.192209	1.52146	0.208976	11.07705	0.487561	1
FRY	2	391.415538	33.76471	8.117565	140.443	0.001826	1
FRYL	2	2623.96774	4.991878	1.20365	20.70274	0.06547	1
FSCN3	1	2390.760999	2.671666	0.366896	19.45453	0.317664	1
FSHR	1	583.1397865	11.0328	1.513221	80.4394	0.088792	1
FTO	1	417.5836717	15.41705	2.113161	112.4786	0.064516	1
FUT10	1	5194.565018	1.215775	0.166997	8.851093	0.566127	1
FUT5	1	1357.275187	4.725507	0.648748	34.42079	0.194712	1
FUT7	2	3575.216276	3.649699	0.880142	15.13426	0.110728	1
G6PC	1	360.1310779	17.88066	2.449935	130.5006	0.055834	1
GAB4	2	6521.20006	1.977153	0.476881	8.197294	0.278124	1
GABRE	1	683.2361149	9.4127	1.291328	68.61071	0.103205	1
GAD2	1	2315.455539	2.75939	0.378939	20.09358	0.309288	1
GALE	1	510.9138373	12.59609	1.727232	91.85877	0.078276	1
GALNT8	1	3563.556781	1.78396	0.245022	12.9887	0.43505	1
GAMT	2	1015.120568	12.98684	3.128856	53.90402	0.011506	1
GANC	2	6929.36155	1.857592	0.448049	7.7015	0.302279	1
GBE1	1	3906.81217	1.624967	0.22319	11.83082	0.465482	1
GCAT	1	4488.115691	1.411179	0.193832	10.27398	0.513422	1
GCDH	1	693.6769714	9.270639	1.271866	67.57377	0.104777	1

GCFC2	2	5925.698247	2.181136	0.52607	9.043196	0.242896	1
GCNT1	1	5238.413401	1.205384	0.16557	8.775428	0.569146	1
GDF3	1	8295.917538	0.751683	0.103257	5.472027	1	1
GDPD5	1	638.9628069	10.06668	1.380911	73.38485	0.096891	1
GEMIN8	2	5176.168168	2.504594	0.604065	10.38463	0.198961	1
GGN	1	9607.381056	0.645574	0.088683	4.699509	1	1
GGT6	1	8443.232424	0.73812	0.101395	5.373285	1	1
GHR	1	1673.655221	3.827372	0.525517	27.87498	0.234538	1
GHRHR	1	365.7543348	17.60536	2.412314	128.4861	0.056736	1
GIGYF2	1	2191.780422	2.91654	0.40051	21.23844	0.295519	1
GIMAP5	1	784.3488293	8.195976	1.124611	59.73091	0.117537	1
GIMAP8	1	2500.988039	2.552786	0.350577	18.58854	0.329612	1
GJB4	4	24427.72418	1.032835	0.36759	2.902007	0.793479	1
GLB1L2	2	8258.769896	1.550105	0.373895	6.426468	0.379865	1
GLDN	1	2176.440009	2.937278	0.403357	21.38952	0.293708	1
GLE1	1	459.6297815	14.00438	1.919938	102.1505	0.070755	1
GLI1	1	2612.400221	2.442823	0.335481	17.78753	0.341462	1
GLI3	1	12231.63034	0.501567	0.068902	3.651122	1	1
GLIS3	2	3716.067476	3.509368	0.846313	14.55214	0.118007	1
GLT8D2	1	3226.551967	1.972968	0.270974	14.36525	0.403508	1
GLTSCR2	3	6551.903693	3.031231	0.934377	9.833678	0.085798	1
GMPR	2	731.3232844	18.04693	4.345718	74.94544	0.006147	1
GMPR2	2	8134.24605	1.574641	0.379812	6.528205	0.372691	1
GMPS	1	2252.297218	2.837487	0.389659	20.66252	0.302269	1
GNAT2	1	1724.43586	3.71391	0.509947	27.04817	0.240641	1
GNAT3	1	4135.017782	1.533872	0.210681	11.16744	0.48482	1
GNL1	1	8311.091755	0.750264	0.103062	5.461694	1	1
GOLGA3	1	6052.087682	1.039878	0.14284	7.570329	0.622586	1
GOLGB1	1	7593.579841	0.823578	0.113132	5.995469	1	1
GOLT1A	1	323.9904337	19.87808	2.722798	145.1221	0.050405	1
GON4L	1	3376.903046	1.883983	0.258756	13.71716	0.417754	1
GORASP1	1	5252.993501	1.201967	0.165101	8.750549	0.570194	1
GOT2	1	3736.558593	1.700176	0.233517	12.37853	0.450604	1
GPAA1	1	1348.230772	4.757379	0.65312	34.65311	0.193552	1
GPALPP1	3	3983.943991	5.037356	1.552516	16.34441	0.025434	1
GPATCH2	2	10672.47964	1.187627	0.286474	4.923514	0.687136	1
GPC1	1	5624.271888	1.120928	0.153971	8.160472	0.595348	1
GPC2	1	383.7951992	16.77659	2.29904	122.4224	0.059436	1
GPD1	1	1153.580546	5.564446	0.763827	40.53675	0.168155	1
GPI	2	4429.465561	2.935682	0.708005	12.17255	0.156476	1
GPR113	4	24670.51272	1.021577	0.363583	2.870373	1	1
GPR114	2	1909.654485	6.878796	1.658308	28.53381	0.037229	1
GPR115	1	4915.960699	1.28613	0.176659	9.363393	0.546029	1
GPR116	1	6332.292061	0.992729	0.136365	7.22703	1	1
GPR12	1	71.223549	90.51485	12.26808	667.8257	0.011387	1
GPR124	2	7505.204054	1.711029	0.412704	7.093748	0.336177	1
GPR125	1	4840.516625	1.306575	0.179467	9.512269	0.540473	1
GPR126	3	11038.89783	1.766166	0.544476	5.729074	0.256076	1
GPR128	1	884.0105501	7.269086	0.997566	52.96853	0.131506	1
GPR137B	2	1118.244124	11.78435	2.839494	48.9069	0.013814	1
GPR15	1	1035.407651	6.202452	0.851324	45.18893	0.152192	1
GPR17	1	2296.681984	2.782155	0.382064	20.25943	0.307289	1
GPR26	1	87.65813104	73.53987	9.992613	541.2111	0.014057	1
GPR35	1	5747.428244	1.096359	0.150597	7.981579	0.603366	1
GPR56	1	8740.345045	0.712158	0.097828	5.184264	1	1
GPR63	1	628.570635	10.23353	1.403765	74.60308	0.09545	1
GPR98	5	30915.44481	1.01928	0.399302	2.601873	1	1
GPRASP1	1	1987.578959	3.218816	0.442	23.44069	0.272091	1
GPRIN1	1	1199.997999	5.348214	0.734169	38.96025	0.174246	1
GPSM2	2	6925.025975	1.858788	0.448337	7.706459	0.302042	1
GPT2	1	424.5280798	15.16444	2.078615	110.6314	0.065559	1
GPX5	2	6121.554582	2.109667	0.508836	8.746818	0.254485	1
GPX7	1	366.4757662	17.57065	2.407571	128.2321	0.056736	1
GRAMD1A	1	5773.726135	1.091249	0.149895	7.944369	0.605106	1
GRAMD1E	1	406.0519287	15.85562	2.173131	115.6859	0.062726	1
GRB7	1	2096.256316	3.050612	0.418913	22.2152	0.284587	1
GREB1	1	3158.5612	2.01599	0.276881	14.67858	0.396938	1
GRHL3	2	6484.217601	1.98873	0.479673	8.245301	0.275931	1
GRID2IP	1	5776.601778	1.090693	0.149819	7.94032	0.605298	1
GRIK2	1	497.7870815	12.92892	1.772784	94.29074	0.076364	1
GRIN3B	1	7638.157057	0.818622	0.112452	5.959385	1	1
GRK7	1	2333.780951	2.737521	0.375937	19.93427	0.311391	1
GRM1	2	5243.733693	2.471645	0.59612	10.24798	0.202905	1

GRM2	1	5041.251846	1.253528	0.172182	9.125999	0.555143	1
GSE1	1	4243.527675	1.493994	0.205205	10.87704	0.493822	1
GSG2	1	790.1175867	8.135948	1.116384	59.29291	0.118381	1
GSTA3	2	6630.898662	1.943573	0.468783	8.058044	0.284642	1
GSTA5	2	897.2184032	14.70033	3.541062	61.02684	0.009096	1
GSTM5	1	4428.77185	1.430432	0.196476	10.41418	0.508751	1
GTF3C1	3	7159.991746	2.766906	0.852917	8.975988	0.104944	1
GTPBP8	1	3224.967117	1.97395	0.271108	14.3724	0.403315	1
GTSF1L	2	6804.73703	1.892577	0.456486	7.846572	0.294945	1
GYS2	1	1187.892344	5.402978	0.74168	39.35952	0.172661	1
HAAO	1	1282.968602	5.000683	0.686497	36.42668	0.185128	1
HABP2	2	7227.657017	1.778755	0.429037	7.374583	0.319917	1
HAPLN1	2	309.4198193	42.72624	10.2627	177.8804	0.001152	1
HAS1	1	3128.258191	2.035767	0.279596	14.82263	0.39392	1
HAUS6	1	3611.832592	1.759773	0.2417	12.81256	0.439408	1
HCFC1	1	756.7500984	8.495819	1.165701	61.9189	0.113727	1
HCLS1	1	3425.868057	1.856689	0.255008	13.51838	0.422335	1
HDAC10	1	3860.704689	1.64468	0.225897	11.97438	0.461495	1
HDAC6	1	6314.31108	0.995629	0.136763	7.248145	1	1
HEATR1	1	2365.231992	2.700779	0.370893	19.66661	0.31481	1
HEATR5B	1	1618.514751	3.958639	0.54353	28.83157	0.227768	1
HEATR6	1	1172.373977	5.474835	0.751536	39.88341	0.170544	1
HEBP1	2	6930.775971	1.857202	0.447955	7.699883	0.302397	1
HECTD4	1	867.0393108	7.411871	1.017139	54.01013	0.129146	1
HECW1	1	2532.223915	2.52098	0.346211	18.35685	0.332942	1
HELB	1	9970.272109	0.621143	0.085327	4.521649	1	1
HELZ	1	795.7736337	8.077939	1.108434	58.86964	0.119224	1
HELZ2	2	11102.22004	1.139619	0.274895	4.724468	0.696443	1
HENMT1	2	5165.823806	2.509715	0.6053	10.40587	0.198382	1
HERC1	3	18423.67224	1.025732	0.316233	3.327066	1	1
HEXB	2	2676.14476	4.893525	1.179947	20.29463	0.067743	1
HEY1	1	305.191241	21.10411	2.890203	154.1011	0.047528	1
HGF	1	818.5774726	7.85219	1.077494	57.22251	0.122451	1
HGFAC	2	6306.906523	2.04612	0.493512	8.483292	0.265441	1
HGS	1	703.1157898	9.145843	1.254768	66.66288	0.106061	1
HHIPL1	1	1247.232489	5.144698	0.706253	37.47655	0.180426	1
HIGD1C	1	858.996607	7.481508	1.026685	54.51814	0.128034	1
HIP1	2	1505.89153	8.737266	2.105939	36.24976	0.0241	1
HIST1H1D	1	3875.048326	1.638497	0.225048	11.92935	0.462711	1
HK2	1	886.6481747	7.247385	0.994591	52.81023	0.131922	1
HLA-A	1	2954.599463	2.156927	0.296231	15.7051	0.376803	1
HLA-B	2	22721.93041	0.529917	0.127833	2.196717	0.579326	1
HLA-DMA	1	10933.81461	0.564145	0.077498	4.106694	1	1
HLA-DQB	2	2376.969416	5.516069	1.329973	22.87793	0.05505	1
HLA-G	1	12198.79252	0.502986	0.069097	3.661454	1	1
HMCN1	1	16735.51643	0.359684	0.049412	2.618239	0.519883	1
HMGXB3	1	2748.993823	2.320168	0.318643	16.89411	0.355806	1
HMX2	1	1315.996009	4.874537	0.669193	35.50713	0.189416	1
HN1	1	921.3240634	6.97365	0.957065	50.81349	0.13662	1
HOXA4	1	431.9981096	14.90177	2.042692	108.7109	0.0666	1
HOXC12	1	1417.633883	4.523217	0.620995	32.9463	0.202529	1
HOXC4	1	1020.746959	6.291905	0.86359	45.84126	0.150294	1
HOXC6	1	2923.370418	2.180243	0.299432	15.87492	0.373586	1
HOXC8	1	133.2389039	48.37325	6.597723	354.6635	0.021091	1
HPR	1	2147.720858	2.976898	0.408795	21.67816	0.290529	1
HS1BP3	1	3315.058359	1.919608	0.263647	13.97662	0.411906	1
HS3ST1	1	175.4172176	36.73595	5.019217	268.8726	0.027612	1
HS6ST2	3	3254.758979	6.184073	1.90576	20.06694	0.015017	1
HSD17B14	1	11414.88201	0.53929	0.074084	3.925741	1	1
HSD3B1	1	1586.43787	4.039199	0.554584	29.41866	0.223679	1
HSF4	1	960.5251398	6.687994	0.917901	48.72997	0.142115	1
HSPA1L	1	5135.057302	1.230161	0.168973	8.955847	0.561879	1
HSPD1	1	4362.592514	1.45252	0.199509	10.57502	0.503475	1
HTRA1	1	495.5238288	12.98809	1.780881	94.7231	0.07607	1
HTRA3	2	4320.628064	3.010958	0.726154	12.48477	0.150494	1
HTT	1	12514.26524	0.48966	0.067266	3.564439	0.722313	1
HYAL3	2	2118.109958	6.196634	1.493959	25.70236	0.044842	1
HYAL4	1	2070.639404	3.08867	0.424137	22.49248	0.281713	1
IDH3A	1	1338.11472	4.793539	0.658081	34.91669	0.192262	1
IDO2	2	7832.707351	1.637286	0.39492	6.787968	0.355298	1
IFFO1	1	4483.388987	1.412694	0.19404	10.28501	0.513027	1
IFI16	3	8857.921243	2.22099	0.684665	7.204693	0.166066	1
IFI44	1	727.5224027	8.838162	1.212611	64.41726	0.109618	1

IFNA10	1	2153.911797	2.968268	0.40761	21.61529	0.291211	1
IFNA14	1	2696.924006	2.365459	0.32486	17.224	0.350398	1
IFNAR2	1	1589.687563	4.030889	0.553444	29.3581	0.224175	1
IFRD2	2	3392.322643	3.849306	0.928259	15.9623	0.101473	1
IFT140	1	7431.11041	0.842145	0.115682	6.130648	1	1
IFT46	1	2224.443556	2.873338	0.39458	20.9237	0.299127	1
IFT80	1	529.3662497	12.15612	1.667012	88.64443	0.080916	1
IFT81	2	5890.619245	2.194438	0.529278	9.098361	0.240829	1
IGDCC4	1	6999.032807	0.895717	0.12304	6.520693	1	1
IGFBP5	1	6564.625766	0.956687	0.131414	6.964609	1	1
IGFLR1	1	4857.028994	1.302046	0.178845	9.479289	0.541664	1
IGSF10	1	12043.35666	0.509809	0.070034	3.711122	1	1
IGSF21	1	3554.697575	1.78847	0.245641	13.02155	0.434229	1
IKBKAP	1	12186.46717	0.503521	0.06917	3.665346	1	1
IL10RB	1	492.8466136	13.05879	1.790555	95.23968	0.075628	1
IL12B	2	5304.946811	2.442517	0.589097	10.12718	0.206451	1
IL17D	1	117.104085	55.04174	7.499772	403.9581	0.018595	1
IL17RC	1	4632.897965	1.366277	0.187666	9.947006	0.524716	1
IL17RD	2	4855.786247	2.673319	0.644748	11.08439	0.180553	1
IL20RA	1	1550.465064	4.133508	0.567525	30.10597	0.219193	1
IL25	1	3397.056494	1.872654	0.2572	13.63465	0.419628	1
IL411	1	1602.5814	3.998252	0.548966	29.12025	0.225788	1
ILVBL	1	7329.798222	0.85414	0.11733	6.217977	1	1
INADL	3	10088.21697	1.940244	0.598132	6.293837	0.215688	1
INF2	1	2850.043203	2.236997	0.307224	16.2883	0.366186	1
INSC	3	11041.00542	1.765813	0.544367	5.72793	0.256163	1
INTS2	1	563.0996899	11.42635	1.567108	83.31372	0.085883	1
IP6K3	2	768.6959672	17.16696	4.134191	71.2847	0.006775	1
IPCEF1	1	138.2596971	46.61568	6.359676	341.6875	0.021869	1
IPMK	1	73.4370508	87.78583	11.90304	647.4273	0.011701	1
IQCA1	2	3692.659966	3.531947	0.851756	14.64581	0.116811	1
IQCB1	2	5491.405226	2.357795	0.568668	9.77582	0.217308	1
IQCE	1	13189.94032	0.463263	0.06364	3.372271	0.722983	1
IQCF2	1	3608.453452	1.761445	0.24193	12.82473	0.439046	1
IQCH	1	3594.051267	1.768606	0.242913	12.87689	0.437777	1
IRAK4	1	3167.698503	2.010101	0.276072	14.63569	0.397811	1
IRX1	1	504.9655746	12.74476	1.74758	92.9451	0.077394	1
ITGA2	1	2116.271137	3.021518	0.414919	22.00324	0.286878	1
ITGA7	1	2661.894581	2.396925	0.32918	17.4532	0.346733	1
ITGA9	1	1442.305587	4.445405	0.610319	32.37916	0.205585	1
ITGAD	2	4909.447159	2.643524	0.637564	10.96082	0.183583	1
ITGAE	1	6661.680039	0.942375	0.129449	6.860407	1	1
ITGAX	1	1962.027167	3.26107	0.447799	23.74855	0.269051	1
ITGB1BP1	1	157.4766473	40.92402	5.587929	299.7131	0.024822	1
ITGB2	2	2426.770071	5.401792	1.302435	22.4037	0.057107	1
ITIH4	1	1495.009459	4.287787	0.588694	31.23037	0.212291	1
ITPKB	1	536.2453519	11.99985	1.645621	87.50283	0.081941	1
ITPR2	1	1634.72402	3.919132	0.538109	28.54367	0.229743	1
IZUMO4	1	5788.402853	1.088417	0.149506	7.923749	0.606005	1
JAK2	1	456.4025244	14.10359	1.93351	102.8757	0.070162	1
JMJD1C	2	3632.192501	3.591622	0.866142	14.89335	0.113655	1
JMJD4	1	1999.547759	3.199396	0.439334	23.2992	0.273489	1
JMJD7-PL	1	4857.214156	1.301996	0.178838	9.478921	0.541664	1
JMY	1	1569.705655	4.082528	0.56053	29.73443	0.221688	1
KALRN	1	7364.957973	0.84994	0.116753	6.187398	1	1
KANK1	1	5555.489618	1.135124	0.155921	8.263835	0.590781	1
KARS	2	939.4760588	14.03674	3.381443	58.26808	0.009925	1
KAT6B	2	2593.538431	5.051064	1.217914	20.94832	0.064171	1
KAT8	1	62.08806997	103.8367	14.04578	767.6376	0.00997	1
KATNAL1	1	216.0292771	29.82501	4.079197	218.0653	0.033936	1
KATNB1	2	4279.329114	3.040524	0.733282	12.60741	0.148181	1
KAZALD1	2	12279.22047	1.025338	0.247331	4.25065	1	1
KBTBD13	2	2855.846979	4.582292	1.104936	19.00327	0.07581	1
KCNA3	1	420.792982	15.29927	2.097055	111.6173	0.064963	1
KCNB1	1	2793.046164	2.28317	0.313563	16.62461	0.360348	1
KCNC3	1	397.2527677	16.20739	2.221227	118.2587	0.061382	1
KCNG4	2	4154.997675	3.133082	0.755597	12.99132	0.141398	1
KCNH6	3	5755.805297	3.461702	1.067033	11.23056	0.063347	1
KCNH7	1	2280.728569	2.801796	0.38476	20.40251	0.305508	1
KCNJ12	1	1543.505812	4.152261	0.570098	30.24264	0.218443	1
KCNK16	1	1925.476365	3.32346	0.456362	24.20313	0.264703	1
KCNK7	1	113.0838108	56.99946	7.764251	418.4484	0.017971	1
KCNQ2	1	283.8991672	22.68882	3.10649	165.7119	0.044338	1

KCTD19	2	1048.438615	12.57246	3.029149	52.18188	0.012225	1
KDEL2	2	4450.279589	2.921705	0.704635	12.11458	0.157645	1
KDM1A	2	1158.100734	11.37697	2.741449	47.21426	0.014759	1
KDM1B	3	3310.481899	6.078617	1.873277	19.72457	0.015697	1
KDM2B	1	524.8824206	12.26019	1.681257	89.40468	0.08033	1
KDM3A	1	1613.797478	3.970285	0.545128	28.91644	0.22715	1
KDM3B	2	6651.615486	1.937356	0.467284	8.032262	0.285886	1
KDM4E	1	4476.140055	1.415023	0.19436	10.30197	0.512475	1
KDM5B	1	6756.681871	0.928765	0.127579	6.761308	1	1
KDM6B	1	4202.122951	1.508968	0.207261	10.98608	0.490371	1
KHK	1	518.6947589	12.40675	1.701317	90.47543	0.07945	1
KIAA0226	1	4621.490255	1.369713	0.188138	9.972026	0.523791	1
KIAA0226L	1	1497.379985	4.280958	0.587757	31.1806	0.212543	1
KIAA0319L	2	1259.885074	10.45359	2.519183	43.37816	0.017294	1
KIAA0355	1	916.1413395	7.013246	0.962493	51.10231	0.13593	1
KIAA0430	1	5607.331238	1.124392	0.154447	8.185694	0.594228	1
KIAA0556	1	12918.4391	0.473538	0.065052	3.447072	0.722519	1
KIAA1147	2	980.0276738	13.45375	3.241194	55.8447	0.010765	1
KIAA1217	2	8238.196283	1.554107	0.37486	6.443065	0.378662	1
KIAA1324	1	8237.965817	0.757151	0.104008	5.511839	1	1
KIAA1324L	1	2669.404725	2.390109	0.328245	17.40356	0.347467	1
KIAA1407	2	10326.06725	1.229234	0.296509	5.096027	0.679846	1
KIAA1462	1	1494.937383	4.287995	0.588722	31.23188	0.212291	1
KIAA1524	2	4606.913315	2.820579	0.680253	11.69515	0.166436	1
KIAA1549L	1	2924.850017	2.179127	0.299279	15.86679	0.373787	1
KIAA1551	1	1475.992637	4.343361	0.596319	31.63541	0.209894	1
KIAA1614	1	11765.32054	0.522463	0.071772	3.803241	1	1
KIAA1683	1	2440.401176	2.6168	0.359365	19.05485	0.323012	1
KIAA2013	1	2110.63312	3.029658	0.416037	22.06254	0.286306	1
KIDINS22C	1	1617.284239	3.96167	0.543946	28.85366	0.227521	1
KIF13B	2	7183.494264	1.790014	0.431752	7.421271	0.317267	1
KIF15	1	2172.984894	2.941989	0.404003	21.42384	0.293368	1
KIF16B	1	3212.346721	1.981806	0.272187	14.42962	0.402064	1
KIF17	1	6634.648764	0.946319	0.12999	6.889123	1	1
KIF18A	1	3535.418714	1.798362	0.246999	13.09359	0.4324	1
KIF1B	1	11194.45541	0.550413	0.075612	4.006724	1	1
KIF21B	1	2112.376194	3.027137	0.415691	22.04417	0.28642	1
KIF27	1	3129.187041	2.035155	0.279512	14.81817	0.394017	1
KIF7	1	7271.838645	0.861152	0.118293	6.269031	1	1
KIR2DL3	4	6812.472353	3.990777	1.420054	11.21528	0.022681	1
KIRREL2	1	1618.92857	3.95762	0.54339	28.82415	0.227768	1
KITLG	1	2598.856412	2.455687	0.337247	17.88124	0.340085	1
KLC4	2	7213.739658	1.782288	0.429889	7.389234	0.319092	1
KLHDC10	2	8937.768912	1.428346	0.34453	5.921602	0.653364	1
KLHDC7A	1	5275.490905	1.196732	0.164382	8.712429	0.571728	1
KLHL1	1	911.1839861	7.051542	0.967743	51.38164	0.13524	1
KLHL13	1	312.6668439	20.59892	2.82123	150.4008	0.04874	1
KLHL28	1	718.9666345	8.943642	1.227064	65.18709	0.108339	1
KLHL33	1	1437.776202	4.459491	0.612252	32.48182	0.205076	1
KLHL4	1	379.1033351	16.98454	2.327464	123.9437	0.058687	1
KLK14	1	3467.798959	1.833929	0.251883	13.35262	0.426234	1
KLK3	2	588.0133087	22.45814	5.40551	93.30627	0.004038	1
KLRG2	1	745.1553481	8.628414	1.183871	62.88653	0.112029	1
KMT2A	1	9460.256397	0.656012	0.090117	4.775505	1	1
KRI1	1	846.3001483	7.594132	1.042123	55.33978	0.126223	1
KRT12	2	2228.99973	5.885741	1.41905	24.41206	0.049122	1
KRT16	3	5752.148638	3.463954	1.067727	11.23787	0.063242	1
KRT18	1	128.8097098	50.03747	6.823012	366.9566	0.020468	1
KRT19	1	2940.468741	2.167416	0.297671	15.78149	0.375297	1
KRT2	1	786.6658217	8.17176	1.121292	59.55421	0.117959	1
KRT20	1	1514.400776	4.232555	0.581115	30.82783	0.214682	1
KRT33B	1	18268.72629	0.327346	0.04497	2.382826	0.364595	1
KRT37	1	1127.506646	5.693718	0.781557	41.4793	0.164692	1
KRT6A	1	10001.85827	0.619101	0.085046	4.506778	1	1
KRT6B	1	4929.863926	1.282431	0.176151	9.336455	0.547058	1
KRT72	2	6125.990393	2.108102	0.508459	8.740325	0.254722	1
KRT75	1	14242.06588	0.427145	0.058679	3.10934	0.727009	1
KRT76	3	2919.982465	6.902374	2.126998	22.39907	0.011246	1
KRT77	4	18902.81805	1.367187	0.486576	3.841536	0.540834	1
KRT83	1	1791.609073	3.573702	0.490706	26.0265	0.248866	1
KRTAP27-	1	5744.306115	1.096969	0.150681	7.986019	0.603173	1
KRTCAP3	1	265.9263828	24.22399	3.315919	176.965	0.041595	1
L2HGDH	1	693.3104864	9.275553	1.272539	67.60963	0.104634	1

L3MBTL2	1	907.8300959	7.077687	0.971328	51.57236	0.134826	1
LAD1	1	1785.564885	3.585886	0.492378	26.11528	0.248144	1
LAMA1	5	11880.12681	2.881353	1.128647	7.355882	0.039177	1
LAMA4	2	8618.151285	1.48327	0.357777	6.14934	0.400287	1
LAMA5	8	27526.14603	2.034156	0.937275	4.4147	0.074935	1
LAMB1	2	14314.41468	0.872075	0.210365	3.615223	1	1
LAMB3	1	3051.121928	2.087882	0.286751	15.2022	0.386359	1
LAMB4	3	21720.44682	0.857738	0.264444	2.782122	1	1
LAMC3	1	5931.325107	1.061572	0.14582	7.728288	0.615073	1
LAMP1	1	255.5812306	25.20554	3.449772	184.1626	0.040068	1
LAMP2	1	787.8703266	8.159228	1.119574	59.46277	0.1181	1
LARGE	1	1651.781784	3.878395	0.532519	28.2468	0.231837	1
LARP1B	2	871.7948033	15.13056	3.644537	62.81566	0.008619	1
LARS	1	2279.14807	2.803756	0.385029	20.41679	0.305285	1
LAT2	1	3129.825775	2.034734	0.279454	14.81511	0.394115	1
LATS1	1	1925.468436	3.323474	0.456364	24.20323	0.264703	1
LCAT	1	198.5673867	32.45006	4.436483	237.3516	0.031319	1
LCP2	1	3457.894448	1.839256	0.252614	13.39141	0.425308	1
LECT1	1	2182.858891	2.928565	0.402161	21.32604	0.294501	1
LDB2	1	123.2771197	52.28427	7.126986	383.5625	0.019532	1
LECT2	2	3716.880278	3.508589	0.846125	14.54891	0.118059	1
LEFTY1	1	3622.448035	1.754541	0.240982	12.77445	0.440312	1
LEFTY2	2	10710.00178	1.183282	0.285426	4.905498	0.687949	1
LEMD2	1	924.8124764	6.947249	0.953445	50.62091	0.137171	1
LEMD3	1	709.2543872	9.066464	1.243892	66.08351	0.106916	1
LENG8	2	6929.424569	1.857575	0.448045	7.701428	0.302279	1
LEPRE1	1	13339.03326	0.457798	0.06289	3.332489	0.723343	1
LGALS13	1	1496.087134	4.28468	0.588267	31.20772	0.212418	1
LGI4	1	832.4035683	7.721341	1.059559	56.26784	0.124269	1
LGR4	1	11560.91667	0.532153	0.073103	3.873791	1	1
LGR5	1	4746.470628	1.332972	0.183092	9.704481	0.533341	1
LIFR	1	987.8099308	6.502554	0.892474	47.3775	0.145805	1
LILRA1	1	12606.26823	0.485899	0.06675	3.537061	0.722308	1
LILRB2	1	1090.055177	5.89022	0.808506	42.91211	0.159606	1
LIMD1	1	375.8687847	17.13092	2.347472	125.0146	0.058237	1
LIMK2	2	5384.239536	2.405772	0.580237	9.974786	0.211055	1
LIMS1	1	4773.16627	1.325373	0.182049	9.64915	0.535379	1
LINGO4	1	2228.132393	2.868539	0.393921	20.88873	0.299576	1
LIPF	2	767.5678165	17.19227	4.140275	71.38998	0.006758	1
LIPH	1	980.7770966	6.549365	0.898893	47.7189	0.14485	1
LIPI	1	3451.396865	1.842766	0.253096	13.41698	0.424659	1
LMCD1	1	1677.492379	3.818558	0.524308	27.81075	0.234905	1
LMNA	1	767.2256537	8.379468	1.149757	61.06985	0.11514	1
LMOD3	3	13074.37989	1.478577	0.455828	4.796088	0.463522	1
LOXHD1	3	15751.09721	1.213531	0.374125	3.93627	0.738001	1
LPA	2	10266.63081	1.236655	0.298299	5.126796	0.678624	1
LPIN1	1	5558.397807	1.134516	0.155838	8.259413	0.590981	1
LPIN3	4	8971.074791	3.003789	1.06892	8.440994	0.053493	1
LRBA	2	9949.994663	1.277684	0.308194	5.296911	0.672178	1
LRCH3	1	1637.454334	3.912555	0.537206	28.49573	0.22999	1
LRGUK	1	17039.22455	0.352816	0.048469	2.568242	0.521807	1
LRIT1	1	1727.505897	3.707264	0.509035	26.99974	0.241127	1
LRP1B	3	8205.432813	2.404049	0.741085	7.798633	0.141375	1
LRP2	2	19935.29048	0.611348	0.147475	2.534303	0.76825	1
LRP4	1	7963.444426	0.784136	0.107715	5.708304	1	1
LRP5L	1	9744.526943	0.636127	0.087385	4.630733	1	1
LRRC16B	4	24609.49174	1.024386	0.364583	2.878265	1	1
LRRC25	1	2664.851717	2.394237	0.328811	17.43362	0.347048	1
LRRC39	1	487.511883	13.20197	1.810148	96.28597	0.074891	1
LRRC43	1	1094.162046	5.868016	0.805461	42.75019	0.160143	1
LRRC48	1	5059.889511	1.248817	0.171535	9.09169	0.556513	1
LRRC49	1	461.6711267	13.94234	1.911451	101.6971	0.071051	1
LRRC52	1	221.0619937	29.14543	3.986655	213.0749	0.034705	1
LRRC56	4	13471.49014	1.963195	0.698666	5.516425	0.164855	1
LRRCC1	2	12704.81896	0.989228	0.238622	4.100933	1	1
LRRFIP1	1	1686.225829	3.798648	0.521575	27.66566	0.236007	1
LRRK1	1	5251.704009	1.202268	0.165142	8.752744	0.570125	1
LRRK2	1	3085.310073	2.064462	0.283536	15.03162	0.389709	1
LRRN2	2	1762.722356	7.456567	1.797488	30.93227	0.032188	1
LRTM2	1	11313.78929	0.544337	0.074777	3.96249	1	1
LRWD1	1	1949.445888	3.282281	0.45071	23.9031	0.267526	1
LSR	1	5281.262889	1.195396	0.164199	8.702701	0.572145	1
LSS	1	16242.70772	0.371375	0.051018	2.703345	0.517546	1

LTBP2	1	6455.964641	0.973221	0.133685	7.08499	1	1
LTBP3	1	1005.659045	6.386687	0.876587	46.53248	0.148257	1
LTF	1	3791.782789	1.675041	0.230066	12.19548	0.455461	1
LXN	1	1718.218396	3.727441	0.511804	27.14677	0.239911	1
LY75-CD3	1	11875.31763	0.517386	0.071075	3.766281	1	1
LYAR	1	502.7331301	12.80147	1.755341	93.35946	0.0771	1
LYST	1	3425.477663	1.856904	0.255037	13.51995	0.422242	1
M1AP	1	1040.030827	6.174767	0.847527	44.98704	0.152868	1
MACF1	1	14878.34464	0.407782	0.056019	2.968377	0.730971	1
MACROD1	1	401.4143852	16.03909	2.198218	117.0278	0.061979	1
MAGEA6	1	231.1249321	27.87535	3.813653	203.7509	0.03624	1
MAGEB6	1	2208.112434	2.894779	0.397523	21.0799	0.297325	1
MAGEC1	1	4244.153108	1.493771	0.205174	10.87541	0.493822	1
MAGED2	1	127.6036255	50.51066	6.887047	370.4529	0.020312	1
MAGI3	2	8046.057675	1.592476	0.384114	6.602161	0.367623	1
MAML1	3	5757.679707	3.460548	1.066677	11.22682	0.063399	1
MAN2B1	2	4072.834211	3.197349	0.771091	13.25789	0.136953	1
MANBA	3	5815.061857	3.4256	1.055908	11.11341	0.064902	1
MANEAL	1	1068.396947	6.010145	0.824952	43.78658	0.156648	1
MAP1A	2	12315.36573	1.022175	0.246568	4.237532	1	1
MAP2	2	10188.73231	1.246513	0.300676	5.167667	0.677018	1
MAP3K15	1	2812.166178	2.267472	0.311408	16.51027	0.3623	1
MAP3K6	1	2139.059127	2.989056	0.410464	21.76674	0.289504	1
MAP4K5	1	2739.474081	2.32832	0.319762	16.95348	0.354769	1
MAPK12	1	1701.313924	3.764733	0.516921	27.41852	0.237839	1
MAPK4	1	623.1916436	10.32208	1.415893	75.24962	0.094585	1
MAPKBP1	1	2060.763641	3.103595	0.426185	22.60121	0.28056	1
MARCH7	3	9615.100723	2.039705	0.628789	6.616523	0.196191	1
MASP2	3	9721.761231	2.016437	0.621617	6.541033	0.200561	1
MAST4	2	10462.34694	1.212537	0.292482	5.026797	0.682687	1
MASTL	1	684.3056042	9.397949	1.289307	68.50304	0.103348	1
MATN3	1	9925.028846	0.624092	0.085732	4.543114	1	1
MBLAC1	2	10706.32049	1.183706	0.285528	4.90726	0.687863	1
MBOAT1	2	3342.864471	3.907036	0.942175	16.20179	0.099035	1
MC1R	3	19391.56324	0.970488	0.299202	3.147862	1	1
MC2R	1	2408.118785	2.652223	0.364228	19.3129	0.319524	1
MCC	1	4611.895141	1.372616	0.188536	9.993165	0.523096	1
MCEE	1	6278.71785	1.001418	0.137558	7.290298	1	1
MCF2L	1	6375.128791	0.985886	0.135425	7.177208	1	1
MCF2L2	1	1918.15422	3.336245	0.458117	24.29628	0.263878	1
MCM2	2	5338.600891	2.426788	0.585304	10.06195	0.208431	1
MCM4	1	2272.262122	2.812331	0.386206	20.47925	0.304504	1
MCMBP	1	177.6999261	36.26371	4.955046	265.3975	0.028076	1
MDC1	2	11217.22935	1.127395	0.271947	4.673786	0.698969	1
MEGF10	1	1448.570531	4.426069	0.607666	32.23822	0.206474	1
MEGF6	1	15270.81076	0.396643	0.054489	2.887287	0.516055	1
MEGF8	2	8211.445557	1.559342	0.376123	6.464769	0.377114	1
MEP1A	1	1898.809799	3.370494	0.462817	24.54583	0.261633	1
MEP1B	1	3896.517526	1.629328	0.223789	11.86258	0.464617	1
METTL11B	1	10433.74376	0.592413	0.081381	4.312485	1	1
METTL14	1	162.9943916	39.53778	5.399766	289.5007	0.025753	1
METTL21B	1	1957.94889	3.267916	0.448739	23.79843	0.268582	1
METTL21C	2	1062.881972	12.4009	2.987867	51.46892	0.012558	1
METTL22	1	643.8134404	9.990639	1.370496	72.82971	0.097611	1
MFAP3	1	227.4074943	28.33145	3.875787	207.0989	0.035626	1
MFRP	1	1551.480894	4.130785	0.567151	30.08612	0.219318	1
MGA	3	16777.39386	1.134338	0.349713	3.679372	0.748158	1
MGAM	3	6957.658705	2.849728	0.878441	9.244726	0.098403	1
MICA	2	7828.580352	1.638177	0.395135	6.791662	0.355066	1
MICAL1	2	10681.74307	1.186551	0.286214	4.919055	0.68735	1
MICALCL	1	3417.314495	1.861401	0.255655	13.5527	0.421496	1
MICALL2	1	4615.244019	1.371602	0.188397	9.985777	0.523328	1
MID1IP1	1	729.4674778	8.814527	1.209373	64.24477	0.10976	1
MINA	1	5076.160721	1.244732	0.170974	9.061943	0.557663	1
MIPEP	2	1028.662166	12.81518	3.087553	53.19061	0.011809	1
MIS18BP1	2	3524.17853	3.703316	0.893067	15.35669	0.108126	1
MKI67	3	26015.50966	0.702742	0.216661	2.279357	0.794627	1
MLH3	1	3992.857518	1.589397	0.218305	11.57179	0.472857	1
MLK4	1	2543.265757	2.509924	0.344693	18.27631	0.33412	1
MLLT4	2	9323.867442	1.367019	0.32974	5.667319	0.660173	1
MLTK	1	1617.015508	3.962333	0.544037	28.85849	0.227521	1
MLXIP	1	6638.218184	0.945797	0.129919	6.885317	1	1
MMEL1	1	2860.852888	2.228447	0.30605	16.22602	0.367306	1

MMP10	1	1284.076746	4.996345	0.685902	36.39506	0.185258	1
MMP17	1	2587.67522	2.466409	0.338719	17.95934	0.338917	1
MMP19	1	1132.858619	5.666698	0.777851	41.28229	0.165359	1
MMP21	3	370.9261438	54.89366	16.851	178.8211	3.09E-05	0.072273809
MMP3	1	858.7948468	7.483272	1.026927	54.53101	0.128034	1
MMRN1	2	2791.765866	4.68868	1.130577	19.44468	0.072907	1
MNS1	3	5130.513886	3.893485	1.200084	12.63181	0.047991	1
MON1B	1	3969.193341	1.599025	0.219627	11.64191	0.470809	1
MON2	1	1573.830513	4.07176	0.559052	29.65596	0.222186	1
MOSPD2	2	6590.402044	1.955839	0.471741	8.10891	0.282213	1
MPDZ	4	17258.2654	1.508055	0.536706	4.237389	0.351904	1
MPHOSPF	1	9038.026339	0.687857	0.094491	5.007346	1	1
MPP2	1	792.5824562	8.110567	1.112906	59.1077	0.118803	1
MRGPRX4	1	2581.335463	2.472529	0.339559	18.00392	0.338173	1
MR11	1	1612.643665	3.973144	0.54552	28.93728	0.227026	1
MROH2B	2	7939.253214	1.614607	0.389451	6.693928	0.361442	1
MRP63	1	2696.455177	2.365875	0.324917	17.22703	0.350293	1
MRPL13	1	1100.17852	5.835785	0.801041	42.51518	0.160948	1
MRPL22	1	9164.700591	0.677995	0.093136	4.935548	1	1
MRPS15	1	465.3444999	13.83208	1.896366	100.8911	0.071495	1
MRPS27	1	3967.358874	1.599777	0.219731	11.64738	0.470638	1
MRPS34	4	9432.278681	2.851482	1.014731	8.012912	0.062072	1
MRPS9	2	1657.568682	7.932939	1.91223	32.91002	0.028768	1
MRV11	2	11459.335	1.102464	0.265934	4.570419	0.704326	1
MS4A13	1	3625.9533	1.75282	0.240746	12.76192	0.440673	1
MSH4	1	2595.967405	2.458448	0.337626	17.90135	0.339766	1
MSH5	2	5919.609677	2.183433	0.526624	9.052724	0.242541	1
MST1R	1	3624.880094	1.753346	0.240818	12.76575	0.440582	1
MT1B	1	1198.0477	5.356962	0.735369	39.02403	0.173982	1
MTMR11	1	13909.05941	0.437986	0.060168	3.188257	0.725373	1
MTMR8	1	655.5124458	9.811877	1.34601	71.52466	0.099336	1
MTUS1	2	16440.96526	0.752469	0.181515	3.119354	1	1
MTUS2	1	4570.072549	1.385412	0.190294	10.08634	0.519841	1
MUC16	7	18549.00805	2.663916	1.178279	6.022724	0.025635	1
MUC5B	1	3907.969962	1.624478	0.223123	11.82726	0.465568	1
MUC6	2	15810.79683	0.784558	0.189255	3.252388	1	1
MUC7	2	3672.642238	3.551485	0.856466	14.72685	0.115774	1
MUM1	2	3414.860975	3.823553	0.922051	15.85547	0.102624	1
MUS81	1	9363.774704	0.663036	0.091081	4.826639	1	1
MUT	1	1313.226661	4.884871	0.67061	35.58245	0.189027	1
MUTYH	1	1329.618489	4.824333	0.662306	35.14116	0.191228	1
MVB12A	2	8773.044995	1.456153	0.351237	6.036901	0.650618	1
MVP	1	1944.874996	3.290056	0.451777	23.95974	0.267056	1
MXRA5	2	3518.891546	3.70896	0.894428	15.3801	0.107872	1
MYADML2	3	11731.75945	1.65707	0.510848	5.375143	0.434115	1
MYBBP1A	2	26566.28028	0.445618	0.107498	1.847247	0.434401	1
MYBL1	2	2905.838325	4.502554	1.085717	18.67243	0.078103	1
MYBPC1	1	974.9841151	6.588431	0.904249	48.00382	0.14403	1
MYBPC2	2	5607.537432	2.307875	0.556631	9.568794	0.224167	1
MYBPC3	1	4197.403032	1.510694	0.207498	10.99865	0.489959	1
MYBPHL	1	1614.152271	3.969407	0.545007	28.91004	0.22715	1
MYCBP2	1	3742.156107	1.697594	0.233163	12.35973	0.451047	1
MYD88	1	597.8034997	10.76154	1.476077	78.4585	0.090969	1
MYH10	1	652.7733275	9.853156	1.351665	71.82601	0.098905	1
MYH13	3	18105.20217	1.045201	0.322234	3.39022	0.763595	1
MYH14	1	8036.927525	0.776732	0.106698	5.654399	1	1
MYH2	2	4765.942477	2.724706	0.657138	11.29752	0.175428	1
MYH4	3	7621.807093	2.594343	0.799734	8.416068	0.120539	1
MYH7B	3	15840.86045	1.206195	0.371864	3.912473	0.738816	1
MYL5	2	12037.47349	1.046987	0.252553	4.340406	0.717284	1
MYL7	1	229.5375271	28.06831	3.83994	205.1672	0.036087	1
MYLK2	1	4934.589103	1.281178	0.175979	9.327334	0.547426	1
MYO10	1	4198.08521	1.510444	0.207463	10.99683	0.490042	1
MYO15A	2	10204.1117	1.244554	0.300204	5.159548	0.677326	1
MYO16	1	2988.805548	2.131948	0.292801	15.52316	0.380204	1
MYO3B	1	2836.942925	2.247445	0.308658	16.3644	0.364859	1
MYO5B	1	16214.57005	0.372064	0.051113	2.70836	0.517444	1
MYO5C	4	13341.08815	1.983471	0.70588	5.573404	0.160871	1
MYO6	1	6119.979317	1.028058	0.141217	7.484264	0.626746	1
MYO7A	2	6925.332428	1.858704	0.448317	7.706108	0.302042	1
MYOCD	2	6297.308306	2.049319	0.494284	8.496557	0.264849	1
MYOF	3	19250.63974	0.978186	0.301575	3.172833	1	1
MYOM2	2	9638.706905	1.320647	0.318556	5.475048	0.666081	1

MYOM3	1	6183.889659	1.017168	0.139721	7.404973	1	1
MYOZ1	1	604.4929965	10.64217	1.459729	77.5868	0.091838	1
MYT1	1	1054.964881	6.086994	0.835491	44.34697	0.154895	1
MZT2A	1	860.5461015	7.46799	1.024832	54.41953	0.128312	1
N4BP2	1	12287.01342	0.499191	0.068576	3.633822	0.722462	1
N4BP3	1	11045.80815	0.558166	0.076676	4.06316	1	1
NAALADL	1	7207.171289	0.869109	0.119386	6.326964	1	1
NAIF1	1	297.3993391	21.65771	2.965773	158.1566	0.046314	1
NAPRT1	2	2474.370105	5.296864	1.277149	21.96828	0.059066	1
NARF	2	1439.46066	9.142918	2.203622	37.93433	0.022152	1
NARG2	1	843.4755842	7.619649	1.04562	55.52594	0.125805	1
NARS	1	962.7668419	6.672362	0.915757	48.61596	0.142389	1
NAV2	1	19516.35855	0.30478	0.04187	2.218559	0.368438	1
NBAS	2	5838.395291	2.214538	0.534124	9.181715	0.237702	1
NBR1	1	2028.330254	3.153632	0.433053	22.96577	0.276743	1
NCOA7	1	2175.309879	2.938817	0.403568	21.40073	0.293595	1
NDC1	1	3003.788384	2.121186	0.291324	15.44477	0.381698	1
NDRG2	1	819.4627134	7.84368	1.076327	57.16042	0.122451	1
NDUFA9	1	4784.89923	1.32206	0.181594	9.625027	0.536282	1
NDUFB5	1	2656.086249	2.402223	0.329908	17.49179	0.346102	1
NDUFV3	1	677.568972	9.491642	1.302142	69.18695	0.10249	1
NEB	2	56259.02163	0.182649	0.044062	0.757125	0.006637	1
NEDD9	1	6130.236606	1.026295	0.140975	7.471427	0.627354	1
NEK5	2	2882.424138	4.539556	1.094636	18.82596	0.076999	1
NEU2	1	5309.14355	1.188983	0.163318	8.656011	0.574087	1
NEU4	1	4041.707228	1.569877	0.215625	11.42963	0.477016	1
NFKBIA	1	428.5042819	15.02349	2.059338	109.6008	0.066154	1
NFYC	1	531.2337534	12.1133	1.66115	88.33159	0.081209	1
NGF	2	2782.809301	4.70394	1.134255	19.508	0.072502	1
NHP2	1	268.1452867	24.02332	3.288549	175.4938	0.0419	1
NHSL1	1	10760.58216	0.57364	0.078802	4.175818	1	1
NHSL2	1	8906.240584	0.698415	0.095941	5.08421	1	1
NID2	1	7753.901248	0.80602	0.110721	5.86763	1	1
NIFK	1	337.1672171	19.10023	2.616557	139.427	0.052369	1
NIN	1	6824.531591	0.919276	0.126276	6.692222	1	1
NINJ2	1	244.4809969	26.35111	3.605943	192.5658	0.038233	1
NISCH	1	3507.003773	1.813141	0.249028	13.20123	0.429831	1
NKD2	2	3618.758862	3.605151	0.869403	14.94947	0.112986	1
NKPD1	1	226.4180286	28.45537	3.892668	208.0086	0.035473	1
NLE1	1	5131.609523	1.231005	0.169089	8.96199	0.561666	1
NLRP2	2	7920.716472	1.618509	0.390392	6.710107	0.3604	1
NLRP6	1	2107.548094	3.03413	0.416651	22.09512	0.285962	1
NLRP7	1	2621.584818	2.434175	0.334294	17.72454	0.342519	1
NMBR	4	8253.515078	3.274598	1.165268	9.202164	0.041551	1
NMRK1	1	1855.328299	3.450086	0.473741	25.12576	0.256409	1
NMUR2	1	6011.213375	1.047123	0.143835	7.623082	0.620056	1
NNT	1	3154.956282	2.018322	0.277201	14.69558	0.396549	1
NOA1	2	2073.684671	6.330514	1.526216	26.25802	0.043187	1
NOC3L	2	4414.551411	2.945778	0.710439	12.21443	0.155698	1
NOD2	1	14332.83079	0.424278	0.058285	3.088467	0.72751	1
NOL6	2	7851.119222	1.633323	0.393965	6.771534	0.356343	1
NOL8	2	6511.777445	1.98009	0.477589	8.209473	0.27759	1
NOM1	1	4337.582884	1.461043	0.20068	10.63709	0.501462	1
NOS3	2	1940.771786	6.767661	1.631534	28.07249	0.038329	1
NOTCH3	3	17606.88761	1.077077	0.332061	3.493624	0.757558	1
NOX1	2	5558.152689	2.328849	0.561688	9.655774	0.221233	1
NOXA1	1	3244.670101	1.961808	0.269441	14.28397	0.405235	1
NPDC1	1	1025.40304	6.263218	0.859657	45.63206	0.150837	1
NPHP3	1	4724.130188	1.339397	0.183974	9.751266	0.531674	1
NPHP4	5	20040.55762	1.649907	0.646326	4.211797	0.247046	1
NQO1	2	1457.887714	9.02669	2.175635	37.45165	0.022698	1
NQO2	2	6402.120997	2.014907	0.485985	8.353854	0.271071	1
NR1H3	1	529.1901371	12.16018	1.667567	88.67405	0.080916	1
NR1H4	1	1306.564839	4.909908	0.674045	35.76497	0.188248	1
NR4A1	1	5729.738599	1.099823	0.151073	8.006801	0.602267	1
NRBP2	1	846.8301409	7.589364	1.041469	55.30499	0.126363	1
NRCAM	1	1074.288002	5.977047	0.820413	43.54523	0.157456	1
NRDE2	1	4618.600744	1.370586	0.188258	9.978382	0.523637	1
NRG1	3	15440.88177	1.239541	0.382143	4.020644	0.73532	1
NRG2	1	3727.788195	1.704236	0.234075	12.4081	0.449805	1
NRIP1	1	3296.38798	1.930626	0.26516	14.05687	0.410102	1
NRXN1	1	2641.023904	2.416069	0.331808	17.59265	0.344524	1
NSMAF	1	685.2980049	9.384302	1.287437	68.40342	0.103491	1

NSUN2	1	486.1010709	13.24036	1.815402	96.56652	0.074596	1
NT5C	2	4695.552439	2.766341	0.667176	11.4702	0.171458	1
NT5C1B	1	2199.868289	2.905723	0.399025	21.15963	0.296422	1
NTN5	1	5714.389507	1.102846	0.151488	8.028813	0.601231	1
NTSR1	4	3825.874988	7.192839	2.558911	20.21834	0.003169	1
NUBPL	1	1027.434592	6.250783	0.857951	45.54138	0.151108	1
NUCB1	1	897.0643242	7.162935	0.983014	52.1942	0.133306	1
NUDCD3	1	537.5000579	11.97178	1.641778	87.29777	0.082233	1
NUGGC	1	1166.366422	5.503166	0.755422	40.08997	0.169748	1
NUMA1	7	13632.15752	3.701246	1.637026	8.368356	0.005281	1
NUP153	1	4566.040183	1.386658	0.190465	10.09542	0.519529	1
NUP98	2	10260.9025	1.237375	0.298472	5.129781	0.6785	1
NUTM2G	1	3500.851668	1.816372	0.249472	13.22476	0.429279	1
NVL	3	8959.695231	2.194841	0.676605	7.119852	0.170038	1
NXF5	2	5569.256839	2.324101	0.560544	9.636082	0.221878	1
NXNL1	1	2642.590028	2.414622	0.33161	17.58211	0.344735	1
OAS3	2	6353.049145	2.030877	0.489836	8.420079	0.268167	1
OBSCN	9	54353.55941	1.053011	0.501303	2.211899	0.84881	1
OBSL1	1	6918.826023	0.906398	0.124507	6.598459	1	1
OC90	1	2131.398888	2.999891	0.411951	21.84567	0.288591	1
OCA2	2	3500.73056	3.728474	0.899132	15.46105	0.106958	1
OCM	1	713.983269	9.006245	1.235642	65.64399	0.107628	1
ODF2L	1	6304.626654	0.997198	0.136978	7.259567	1	1
OGDHL	1	3927.844725	1.616128	0.221976	11.76646	0.467292	1
OGFOD2	1	1404.746335	4.56495	0.626721	33.25048	0.200869	1
OGFR	2	5725.950431	2.25906	0.54486	9.366352	0.231103	1
OLAH	1	291.4173785	22.10281	3.026522	161.4177	0.045402	1
OLFML1	1	530.3594326	12.13331	1.66389	88.47778	0.081062	1
OLFML2A	1	2068.104628	3.092487	0.424661	22.52029	0.281367	1
OPRM1	1	4245.254726	1.493376	0.20512	10.87254	0.493904	1
OPTC	1	2278.626719	2.804404	0.385118	20.42151	0.305285	1
OR10A6	2	9681.929025	1.314517	0.317077	5.449629	0.666909	1
OR10G4	1	788.2987928	8.154779	1.118965	59.43031	0.1181	1
OR10G9	1	327.886728	19.64156	2.690497	143.3903	0.05101	1
OR10J1	2	6530.861895	1.97415	0.476157	8.184841	0.278716	1
OR10V1	2	10858.83681	1.166342	0.28134	4.835263	0.691154	1
OR10X1	1	4395.992088	1.44129	0.197967	10.49324	0.50612	1
OR11L1	1	957.9365317	6.706136	0.920388	48.86229	0.141704	1
OR13C4	1	1287.167951	4.984284	0.684248	36.30714	0.185649	1
OR13H1	1	523.005101	12.30429	1.687293	89.72686	0.080037	1
OR1I1	1	7573.598849	0.825819	0.11344	6.011781	1	1
OR1L6	1	603.5237108	10.6593	1.462076	77.71191	0.091838	1
OR1S1	1	3022.229298	2.108087	0.289525	15.34937	0.383487	1
OR2A7	1	3812.236209	1.665916	0.228813	12.12903	0.457217	1
OR2C1	3	5279.965844	3.780983	1.165418	12.2667	0.051462	1
OR2G3	1	5788.585313	1.088382	0.149502	7.923493	0.606069	1
OR2H1	1	5208.694667	1.212407	0.166535	8.826572	0.567112	1
OR2M5	1	7055.135851	0.88839	0.122034	6.467348	1	1
OR2T11	2	2705.993517	4.838966	1.166798	20.06825	0.069066	1
OR2T34	1	2847.0882	2.239345	0.307546	16.3054	0.36588	1
OR4A47	2	5600.522754	2.310832	0.557344	9.581055	0.223756	1
OR4B1	1	10900.3759	0.565955	0.077746	4.119866	1	1
OR4D5	2	5758.641448	2.245937	0.541696	9.311929	0.233046	1
OR4F5	1	7734.280345	0.80813	0.11101	5.882991	1	1
OR4P4	1	1922.717723	3.328265	0.457021	24.23814	0.264467	1
OR4S1	2	4712.07126	2.756458	0.664793	11.42921	0.172364	1
OR4X1	1	1856.198103	3.448458	0.473517	25.1139	0.256528	1
OR51B4	1	3760.577095	1.689153	0.232003	12.29826	0.452729	1
OR51B5	1	3032.433824	2.100907	0.28854	15.29707	0.384479	1
OR51I2	1	11440.84914	0.538007	0.073908	3.916407	1	1
OR51L1	1	10680.88532	0.578112	0.079416	4.208372	1	1
OR51Q1	2	9887.494436	1.286093	0.310222	5.331777	0.670924	1
OR51V1	2	9363.832455	1.36096	0.328278	5.642196	0.660907	1
OR52E2	2	7594.715361	1.690242	0.407691	7.007554	0.341439	1
OR52K2	1	6933.32532	0.904449	0.12424	6.584268	1	1
OR52N4	4	11111.66264	2.403724	0.855417	6.754473	0.099119	1
OR5AP2	1	1256.024371	5.108507	0.701288	37.21272	0.181604	1
OR5B3	1	856.6464121	7.502104	1.029508	54.6684	0.127756	1
OR5C1	1	1241.031714	5.170532	0.709796	37.66488	0.179639	1
OR5F1	3	10310.61336	1.896645	0.584694	6.152386	0.22503	1
OR5K1	4	6598.283534	4.12393	1.467421	11.58958	0.020452	1
OR5M1	1	2005.395333	3.189992	0.438043	23.23068	0.274072	1
OR5T2	3	14943.47898	1.283499	0.395694	4.163242	0.513464	1

OR5V1	1	1826.592356	3.504766	0.481245	25.52419	0.253066	1
OR5W2	1	772.2164259	8.325147	1.142313	60.67346	0.115846	1
OR6B3	1	414.9072135	15.51667	2.126784	113.2071	0.064069	1
OR6C2	1	5622.368418	1.121316	0.154025	8.163298	0.595217	1
OR6N1	1	2444.1293	2.612769	0.358811	19.02549	0.323446	1
OR8B4	2	4877.432867	2.661221	0.641831	11.03421	0.181753	1
OR8D1	3	15758.71625	1.212906	0.373932	3.93424	0.738073	1
OR8D4	1	2730.435868	2.336112	0.320831	17.01024	0.353835	1
OR8I2	1	398.6882893	16.14894	2.213236	117.8312	0.06168	1
OR9G4	1	1940.610612	3.297342	0.452777	24.01283	0.266586	1
OSBPL1A	3	7014.835785	2.825839	0.871079	9.167212	0.100231	1
OSBPL7	1	1822.821188	3.51207	0.482247	25.57741	0.252587	1
OSBPL9	1	2217.073998	2.882974	0.395903	20.9939	0.298339	1
OSGIN1	1	2717.879462	2.347023	0.322329	17.08972	0.352587	1
OTC	1	7494.103093	0.834851	0.114681	6.077541	1	1
OTOF	3	13522.99499	1.426837	0.439879	4.628237	0.47476	1
OTOP2	3	2391.652253	8.445061	2.602063	27.40866	0.006551	1
OXER1	1	1852.908309	3.454626	0.474364	25.15884	0.256171	1
OXNAD1	1	694.3036164	9.262249	1.270716	67.51252	0.104777	1
P2RX2	1	1231.354701	5.211368	0.715398	37.96259	0.178327	1
PABPC3	1	1583.396445	4.047006	0.555656	29.47556	0.223306	1
PACSIN2	1	870.4269367	7.382925	1.013171	53.79897	0.129563	1
PACSIN3	1	7074.116931	0.885938	0.121697	6.449492	1	1
PADI3	2	4422.750294	2.940219	0.709099	12.19137	0.156143	1
PADI4	1	15182.11888	0.39911	0.054828	2.905246	0.516139	1
PAK1IP1	1	158.4267313	40.67845	5.554602	297.9036	0.024977	1
PAK4	1	1195.137383	5.37007	0.737166	39.11959	0.173586	1
PALB2	2	5447.834145	2.377074	0.573317	9.85577	0.214793	1
PALLD	1	2827.152485	2.255317	0.309739	16.42173	0.363836	1
PALM2-AI	1	5009.340538	1.261677	0.173301	9.185335	0.552827	1
PALM3	5	9219.184461	3.754234	1.470488	9.584759	0.014986	1
PALMD	1	1581.963622	4.050695	0.556162	29.50244	0.223181	1
PAN2	1	1719.553845	3.724527	0.511404	27.12553	0.240155	1
PAPPA	1	2636.29918	2.420445	0.332409	17.62453	0.343997	1
PARD3	1	1405.582509	4.562219	0.626346	33.23058	0.200997	1
PARD6B	1	1546.991592	4.142847	0.568806	30.17403	0.218818	1
PARK2	1	4427.909417	1.430716	0.196515	10.41624	0.508672	1
PARP3	1	2146.973226	2.977943	0.408938	21.68578	0.290415	1
PARP4	2	3350.722255	3.89775	0.939937	16.16327	0.099432	1
PARS2	1	575.1683039	11.18606	1.534207	81.55871	0.08763	1
PASD1	2	5490.864233	2.358033	0.568726	9.776805	0.217308	1
PASK	2	10135.91686	1.253282	0.302309	5.195735	0.675934	1
PAX3	3	7902.334942	2.499367	0.770463	8.107904	0.130393	1
PBRM1	1	844.6875132	7.60868	1.044117	55.44591	0.126084	1
PBXIP1	1	2278.781148	2.804212	0.385091	20.42011	0.305285	1
PCDH11X	1	855.5013508	7.512179	1.030889	54.7419	0.127616	1
PCDH15	1	5779.331453	1.090165	0.149747	7.936481	0.605427	1
PCDH9	1	1260.988777	5.088295	0.698516	37.06537	0.182257	1
PCDHA11	3	10187.86261	1.920474	0.592039	6.229695	0.219866	1
PCDHA12	1	7901.957356	0.790437	0.10858	5.75418	1	1
PCDHA3	1	1525.968073	4.200277	0.576686	30.59258	0.216189	1
PCDHA4	1	5718.683713	1.101999	0.151372	8.022643	0.601555	1
PCDHA7	2	2347.336709	5.586368	1.346913	23.16966	0.053828	1
PCDHA9	2	8246.818233	1.552428	0.374455	6.4361	0.379178	1
PCDHAC2	1	2592.749961	2.461531	0.33805	17.92381	0.339448	1
PCDHB10	2	16356.56101	0.756624	0.182517	3.136578	1	1
PCDHB15	3	11175.10897	1.74365	0.537535	5.656028	0.261954	1
PCDHB5	1	4718.492989	1.341027	0.184198	9.763141	0.531218	1
PCDHB6	4	18319.23273	1.41428	0.503335	3.973872	0.533668	1
PCDHB8	3	16414.96891	1.161173	0.357985	3.766423	0.744369	1
PCDHGA1	2	5377.166334	2.409005	0.581016	9.988197	0.210647	1
PCDHGA2	1	12563.42123	0.487644	0.066989	3.549762	0.722307	1
PCDHGA5	1	1217.84582	5.269459	0.723366	38.38609	0.176618	1
PCDHGA7	1	6733.071756	0.932111	0.128039	6.785675	1	1
PCDHGA8	1	9802.268805	0.632229	0.08685	4.602353	1	1
PCDHGB1	4	11680.80745	2.281189	0.811817	6.410098	0.113613	1
PCDHGB6	1	2446.194485	2.610542	0.358506	19.00926	0.323664	1
PCDP1	1	1355.36926	4.732188	0.649665	34.46949	0.194454	1
PCF11	1	1678.626651	3.815961	0.523951	27.79183	0.23515	1
PCK2	2	5253.989144	2.466717	0.594932	10.22754	0.203486	1
PCM1	1	12814.11434	0.477602	0.06561	3.476658	0.72241	1
PCNT	2	11010.96208	1.149501	0.277278	4.765437	0.694454	1
PCNXL2	5	11933.95955	2.867711	1.123304	7.32105	0.039827	1

PCNXL3	1	1567.932588	4.087173	0.561167	29.76829	0.221439	1
PCOLCE2	1	812.1560152	7.914478	1.086031	57.67697	0.12147	1
PCYOX1L	1	468.1589816	13.74877	1.884968	100.2822	0.071938	1
PDCD11	3	10131.36517	1.931636	0.595479	6.265907	0.217482	1
PDCD4	1	591.7375721	10.87212	1.491219	79.26602	0.090099	1
PDE11A	2	16539.07549	0.747693	0.180363	3.099554	1	1
PDE4D	1	401.9678575	16.01697	2.195193	116.866	0.062129	1
PDE6A	1	3245.50125	1.961299	0.269371	14.28026	0.405331	1
PDGFRL	2	3915.784237	3.327696	0.802516	13.79855	0.128535	1
PDHA2	1	4536.259042	1.39593	0.191738	10.16294	0.517189	1
PDHX	2	8420.148625	1.519387	0.366487	6.299098	0.389058	1
PDLIM5	2	8056.374036	1.59037	0.383606	6.593426	0.3682	1
PDLIM7	1	2407.914093	2.652451	0.364259	19.31456	0.319524	1
PDPR	1	5699.195796	1.105855	0.151901	8.050719	0.600256	1
PDXDC1	1	2915.466052	2.186223	0.300253	15.91848	0.372779	1
PDZD2	2	10361.52892	1.224847	0.295451	5.077837	0.680595	1
PDZD7	1	1121.883688	5.722384	0.785488	41.68831	0.163891	1
PEAK1	1	4585.634814	1.380623	0.189636	10.05147	0.521083	1
PEAR1	3	7188.116906	2.755763	0.849483	8.93983	0.105865	1
PEG3	2	4187.357361	3.108463	0.749662	12.8892	0.143142	1
PELI2	1	2456.811922	2.599149	0.356942	18.92627	0.324857	1
PER1	3	4720.959098	4.238289	1.306326	13.75085	0.039073	1
PEX1	2	1589.156333	8.276714	1.995027	34.33738	0.026607	1
PEX10	1	400.0650237	16.09328	2.205626	117.4241	0.06183	1
PEX11G	2	6607.246461	1.950719	0.470507	8.087676	0.28322	1
PEX26	1	169.902099	37.92925	5.181332	277.656	0.026838	1
PGLYRP3	1	5951.78739	1.057834	0.145306	7.701072	0.616387	1
PGM5	1	3297.605978	1.929904	0.265061	14.0516	0.410293	1
PHACTR3	1	533.6810408	12.05764	1.65353	87.92494	0.081648	1
PHC1	2	4785.573526	2.713313	0.654391	11.25026	0.176564	1
PHF12	1	2423.40186	2.635335	0.361909	19.18987	0.321161	1
PHIP	1	271.1623107	23.75574	3.252051	173.5321	0.042358	1
PHKB	2	6664.623304	1.933472	0.466347	8.016155	0.286656	1
PHLDB3	1	1902.77698	3.363414	0.461845	24.49424	0.262106	1
PHLPP1	1	1888.589248	3.388873	0.46534	24.67975	0.260449	1
PHTF2	1	1663.225139	3.851534	0.528833	28.05106	0.233188	1
PI16	1	12112.73624	0.506742	0.069613	3.688795	1	1
PIDD	2	5874.976392	2.200421	0.53072	9.123173	0.239885	1
PIF1	2	7482.215977	1.716447	0.414011	7.116217	0.33483	1
PIGO	1	1625.748726	3.94091	0.541097	28.70237	0.228633	1
PIGQ	1	1482.788954	4.323336	0.593571	31.48946	0.210778	1
PIGR	1	5033.900095	1.255397	0.172439	9.139602	0.554637	1
PIK3C2B	2	13852.28418	0.902924	0.217805	3.743122	1	1
PIK3C2G	1	4368.909668	1.450383	0.199216	10.55946	0.503957	1
PIP5KL1	1	435.3375816	14.78727	2.02703	107.8737	0.067046	1
PISD	1	973.4458952	6.598883	0.905682	48.08004	0.143757	1
PKD1	2	16787.14439	0.735867	0.17751	3.050523	1	1
PKHD1	1	6499.805074	0.966483	0.13276	7.035937	1	1
PKHD1L1	1	15407.49059	0.392897	0.053974	2.860017	0.516001	1
PKLR	1	1591.897978	4.025256	0.552671	29.31705	0.224424	1
PKN3	1	1185.244881	5.415104	0.743343	39.44792	0.172265	1
PKP2	1	4008.231901	1.583202	0.217455	11.52667	0.474134	1
PKP3	7	17391.93633	2.855256	1.2629	6.455371	0.018705	1
PLA2G12A	1	1078.428587	5.954	0.817253	43.37717	0.157994	1
PLA2G2D	1	1264.675756	5.073386	0.696471	36.95668	0.18278	1
PLAT	1	1871.934441	3.419253	0.469509	24.9011	0.258432	1
PLCD4	2	1800.197179	7.300247	1.759833	30.28333	0.033429	1
PLD2	2	5213.649042	2.486211	0.599632	10.30839	0.201164	1
PLEC	8	24986.44814	2.266324	1.044242	4.918617	0.055762	1
PLEKHA4	1	12876.83406	0.475151	0.065273	3.458814	0.722472	1
PLEKHA7	1	2906.738837	2.192864	0.301165	15.96685	0.371971	1
PLEKHG2	3	15375.57092	1.24515	0.383872	4.038842	0.734783	1
PLEKHG3	2	8840.500938	1.44464	0.34846	5.989165	0.651737	1
PLEKHG4	2	2438.424204	5.375723	1.296153	22.29552	0.057563	1
PLEKHG5	1	5015.861351	1.260004	0.173071	9.173149	0.553334	1
PLEKHG6	1	1972.069296	3.244333	0.445502	23.62661	0.270221	1
PLEKHH1	2	1762.743263	7.456478	1.797466	30.9319	0.032188	1
PLEKHH3	2	2728.372665	4.798843	1.157128	19.90177	0.070042	1
PLET1	1	5272.543855	1.197415	0.164476	8.717404	0.571588	1
PLGRKT	1	3204.969516	1.986427	0.272821	14.46327	0.40139	1
PLIN1	1	4782.219651	1.322816	0.181697	9.630526	0.536056	1
PLIN2	1	2605.24044	2.449607	0.336413	17.83695	0.340721	1
PLIN3	2	1573.574206	8.359194	2.014891	34.67986	0.026147	1

PLK4	1	4262.400644	1.487266	0.204281	10.82805	0.495294	1
PLSCR2	1	4186.482437	1.514701	0.208048	11.02783	0.489051	1
PLSCR5	1	1395.326147	4.595942	0.630973	33.47638	0.19959	1
PLXNA2	3	8980.305125	2.189618	0.674995	7.102905	0.17082	1
PMFBP1	1	6411.562946	0.980138	0.134635	7.135356	1	1
PMP22	1	1049.537177	6.118606	0.839826	44.57749	0.15422	1
PMS1	1	2153.226546	2.969221	0.407741	21.62223	0.291098	1
PNLIPRP1	1	6540.145254	0.960364	0.131919	6.991381	1	1
PNMT	1	1313.326196	4.884499	0.670559	35.57974	0.189027	1
PNRC1	2	3738.337487	3.488149	0.841197	14.46412	0.119153	1
PODN	1	1956.616597	3.270158	0.449046	23.81477	0.268464	1
POLA1	1	1549.788512	4.135324	0.567774	30.1192	0.219193	1
POLA2	1	1312.80654	4.886443	0.670826	35.59391	0.189027	1
POLG	1	3394.206486	1.874248	0.257419	13.64626	0.419347	1
POLQ	1	4086.858043	1.55225	0.213204	11.30127	0.480806	1
POLR3E	1	2839.865769	2.245106	0.308337	16.34736	0.365165	1
POM121	1	2048.274169	3.122675	0.428804	22.74023	0.279059	1
POM121C	1	1098.109817	5.846828	0.802555	42.5957	0.16068	1
POM121L	1	1548.110188	4.139835	0.568393	30.15208	0.218943	1
POMGNT2	1	1206.420945	5.319604	0.730244	38.75167	0.175038	1
POMK	1	770.267435	8.346276	1.145208	60.82765	0.115563	1
POMT1	2	12129.81298	1.038616	0.250534	4.3057	0.719383	1
POSTN	2	3681.788486	3.542532	0.854308	14.68971	0.11624	1
POTEE	1	6778.450799	0.9257	0.127158	6.738992	1	1
POU2F1	1	1449.659796	4.422724	0.607207	32.21384	0.206601	1
POU4F3	1	217.2858492	29.65239	4.055691	216.7976	0.03409	1
PPIL1	1	5007.874703	1.262054	0.173353	9.188079	0.552754	1
PPP1R14C	1	261.3792169	24.64585	3.373453	180.0582	0.040832	1
PPP1R15B	1	826.8718811	7.773167	1.066663	56.64596	0.12357	1
PPP1R21	1	2222.897222	2.875355	0.394857	20.93839	0.299014	1
PRDM5	1	3455.982412	1.840287	0.252756	13.39893	0.425122	1
PRDM9	2	2858.755958	4.577575	1.103799	18.9837	0.075947	1
PRF1	3	8272.492763	2.383904	0.734876	7.73327	0.143846	1
PRKD1	1	720.9013857	8.919571	1.223766	65.0114	0.108624	1
PRKD3	1	1313.910351	4.882316	0.67026	35.56383	0.189156	1
PRODH	2	5313.103211	2.438687	0.588173	10.11129	0.206917	1
PROS1	1	1190.6281	5.390505	0.739969	39.26858	0.173058	1
PRR14	1	1310.153164	4.896391	0.672191	35.66643	0.188638	1
PRR14L	3	14061.90949	1.369047	0.422065	4.440763	0.488959	1
PRSS21	1	3293.691555	1.932228	0.26538	14.06853	0.409912	1
PRSS23	1	403.6638434	15.94957	2.185978	116.373	0.062428	1
PRSS38	1	13295.65086	0.459376	0.063106	3.343973	0.723231	1
PRSS58	1	540.151457	11.91289	1.633716	86.86757	0.082526	1
PRUNE2	1	8877.12207	0.70079	0.096267	5.101501	1	1
PSD	2	7175.338716	1.792108	0.432257	7.429955	0.316796	1
PSD4	2	14713.26368	0.847008	0.204318	3.511297	1	1
PSG1	1	897.140945	7.162321	0.98293	52.18972	0.133306	1
PSG8	2	971.3414823	13.57453	3.270251	56.34674	0.010578	1
PSMA8	2	1577.031243	8.340754	2.01045	34.60329	0.026238	1
PSMB11	2	3298.988506	3.959699	0.95487	16.42027	0.09686	1
PSMB8	1	6393.555818	0.982971	0.135024	7.155981	1	1
PSMB9	3	5245.645626	3.806251	1.173204	12.3487	0.050659	1
PSMC3IP	1	459.8072119	13.99897	1.919197	102.1109	0.070755	1
PSORS1C2	1	6721.372856	0.933778	0.128268	6.797813	1	1
PSPH	1	575.7008869	11.17569	1.532787	81.48296	0.087775	1
PTCHD1	1	105.8315539	60.90718	8.291705	447.3971	0.016876	1
PTCHD4	1	488.8527138	13.16568	1.805184	96.02084	0.075039	1
PTER	1	1458.14633	4.396834	0.603655	32.02514	0.207615	1
PTF1A	1	516.7533606	12.45346	1.70771	90.81667	0.079157	1
PTGES3L-	1	3473.429019	1.830915	0.251469	13.33067	0.426696	1
PTGS1	2	6229.841426	2.072082	0.499773	8.590955	0.26088	1
PTK7	4	4530.554874	6.056787	2.154914	17.02373	0.005752	1
PTPN12	1	413.066288	15.58593	2.136256	113.7136	0.063771	1
PTPN13	1	10213.53793	0.605738	0.083211	4.409496	1	1
PTPN14	1	2401.471972	2.659635	0.365245	19.36689	0.318759	1
PTPN21	2	5761.890311	2.244641	0.541383	9.306554	0.233223	1
PTPN6	1	915.7638113	7.016148	0.962891	51.12347	0.13593	1
PTPRB	1	3021.005705	2.108951	0.289644	15.35566	0.383388	1
PTPRF	1	3883.191349	1.635007	0.224568	11.90394	0.463405	1
PTPRH	4	9489.691116	2.833558	1.008354	7.962535	0.063201	1
PTPRJ	1	1824.632875	3.508558	0.481765	25.55182	0.252826	1
PTPRO	1	5770.832797	1.091809	0.149972	7.948446	0.604913	1
PTPRS	1	2985.980433	2.13399	0.293082	15.53803	0.379904	1

PTPRT	1	5829.565347	1.08055	0.148426	7.866472	0.608689	1
PTPRU	1	1799.629316	3.557661	0.488504	25.90961	0.249828	1
PTRH1	1	377.0330879	17.07794	2.340231	124.627	0.058387	1
PUM1	1	645.9119306	9.958097	1.366039	72.59213	0.097899	1
PUS7L	1	2329.884463	2.742142	0.376571	19.96794	0.310949	1
PVRL1	1	885.0548897	7.260478	0.996386	52.90574	0.131644	1
PWP2	1	904.3423317	7.105083	0.975083	51.77219	0.134274	1
PXDN	1	2666.877537	2.392399	0.328559	17.42023	0.347258	1
PXDNL	2	5289.926592	2.449602	0.590805	10.15656	0.205579	1
PYGB	1	12500.78932	0.490216	0.067343	3.568483	0.722316	1
PYGL	1	4555.619926	1.389889	0.190908	10.11894	0.518751	1
PYHIN1	2	3511.558114	3.716815	0.896321	15.41268	0.107516	1
PYROXD2	1	773.7078047	8.30905	1.140107	60.556	0.116128	1
QRFPR	1	4656.830042	1.359124	0.186684	9.894917	0.526561	1
QRICH2	2	9746.093011	1.305516	0.314907	5.41231	0.668151	1
QSER1	1	8117.382979	0.768779	0.105606	5.596499	1	1
QSOX2	1	3593.039624	1.769111	0.242983	12.88056	0.437687	1
RAB3D	1	188.2154366	34.23624	4.679434	250.4834	0.029621	1
RABL6	1	2204.928902	2.898995	0.398102	21.11062	0.296987	1
RAD51B	2	5746.81432	2.250667	0.542836	9.331547	0.232339	1
RAD54L	1	1771.625719	3.614301	0.496277	26.32233	0.246456	1
RALBP1	1	128.6379179	50.10433	6.83206	367.4505	0.020468	1
RANBP3L	1	5864.054359	1.074044	0.147533	7.8191	0.61085	1
RAPGEF1	1	477.2590198	13.48613	1.849032	98.36267	0.073268	1
RAPGEF3	1	3375.96305	1.884515	0.258829	13.72103	0.41766	1
RASEF	1	3474.829877	1.830166	0.251366	13.32522	0.426881	1
RASSF6	2	3737.354615	3.48908	0.841422	14.46799	0.119101	1
RBBP6	1	1243.361719	5.160794	0.708461	37.5939	0.179901	1
RBFOX2	1	265.6859702	24.24593	3.318911	177.1259	0.041595	1
RBL1	1	1119.748495	5.733345	0.786991	41.76823	0.163624	1
RBL2	2	6260.238746	2.061766	0.497285	8.548172	0.262657	1
RBM11	2	1284.910166	10.24897	2.469924	42.52818	0.017942	1
RBM44	1	191.9813151	33.56417	4.588036	245.5415	0.030239	1
RBM6	2	1357.548968	9.697758	2.337218	40.23866	0.019891	1
RBMXL1	3	1713.742154	11.81777	3.640268	38.36524	0.002598	1
RBPJ	1	32.56556818	197.9938	26.41065	1484.308	0.005393	1
RCBTB1	1	305.9831868	21.04942	2.882737	153.7005	0.04768	1
RCN3	1	1427.729186	4.491053	0.616582	32.71186	0.203804	1
RDH13	1	1679.888577	3.813075	0.523555	27.7708	0.235272	1
RECQL5	3	2460.070354	8.207937	2.529049	26.63857	0.007073	1
REEP4	1	2178.068933	2.935062	0.403052	21.37337	0.293935	1
RELN	2	18354.17952	0.668546	0.161272	2.77143	1	1
REM2	1	1716.652464	3.730865	0.512274	27.17172	0.23979	1
REP15	1	2950.421909	2.160018	0.296655	15.7276	0.376301	1
RFX7	2	7192.17233	1.78779	0.431216	7.412051	0.317797	1
RGAG1	1	7862.668386	0.794515	0.10914	5.783869	1	1
RGL1	1	946.8110805	6.785238	0.931233	49.43922	0.140196	1
RGL4	1	2595.335247	2.459054	0.337709	17.90576	0.33966	1
RGMB	1	851.1050297	7.551115	1.036226	55.02595	0.12692	1
RGP1	2	3341.869993	3.908214	0.942459	16.20668	0.098985	1
RGPD2	1	11335.3463	0.543253	0.074628	3.954599	1	1
RGS11	1	4358.402877	1.453941	0.199704	10.58537	0.503073	1
RHAG	1	387.3197496	16.62369	2.278139	121.3039	0.059885	1
RHD	3	3935.291102	5.100637	1.572011	16.54982	0.024637	1
RHOBTB2	1	1176.386382	5.456074	0.748963	39.74663	0.171074	1
RIC8B	1	1693.918206	3.781282	0.519192	27.53911	0.236985	1
RIMS1	2	6397.07267	2.016539	0.486379	8.36062	0.270775	1
RIMS2	2	3212.44281	4.067794	0.980926	16.86871	0.092602	1
RIMS3	2	1254.068052	10.50232	2.530915	43.5806	0.01714	1
RIN2	2	5823.450853	2.220356	0.535527	9.205844	0.236818	1
RINT1	1	413.733615	15.56075	2.132812	113.5295	0.06392	1
RIOK2	1	5885.349071	1.070066	0.146986	7.790129	0.612178	1
RIPK1	1	508.0361019	12.66758	1.737017	92.38115	0.077835	1
RNF133	1	2292.58433	2.787174	0.382752	20.29599	0.306844	1
RNF135	2	1654.023901	7.950053	1.916352	32.98108	0.028641	1
RNF168	1	225.2009791	28.60929	3.913634	209.1385	0.035319	1
RNF17	1	1860.042908	3.441277	0.472532	25.06157	0.257004	1
RNF215	1	1705.538795	3.755343	0.515633	27.3501	0.238449	1
RNH1	1	1659.64333	3.859902	0.529981	28.11203	0.23282	1
RNPEP	2	4919.414182	2.638061	0.636246	10.93816	0.184156	1
ROS1	1	11600.64119	0.530243	0.072841	3.859885	1	1
RP1L1	1	17987.97846	0.332855	0.045727	2.422932	0.364681	1
RPGRIP1	1	3243.278853	1.96266	0.269558	14.29017	0.405043	1

RPL22L1	1	2578.731466	2.475052	0.339906	18.0223	0.33796	1
RPL3L	3	16232.24523	1.175157	0.362296	3.811786	0.742535	1
RPP40	3	11446.51822	1.700384	0.524199	5.515662	0.428864	1
RPUSD1	2	4378.465052	2.97049	0.716397	12.31692	0.153645	1
RREB1	7	13229.75416	3.820277	1.689664	8.637526	0.004489	1
RRP12	1	3719.538656	1.708073	0.234601	12.43604	0.449094	1
RRP15	2	8218.716565	1.557916	0.375779	6.458856	0.377573	1
RRP7A	1	5635.459036	1.118652	0.153659	8.143899	0.596072	1
RRP9	1	3034.780968	2.099262	0.288314	15.28509	0.384776	1
RRS1	1	3562.495304	1.784499	0.245096	12.99263	0.434867	1
RSL1D1	1	3180.540243	2.001881	0.274943	14.57583	0.399071	1
RSRC2	1	99.29327911	64.91949	8.832633	477.1556	0.015781	1
RTKN2	1	951.5042851	6.751644	0.926627	49.1942	0.140882	1
RTL1	2	4852.230815	2.675316	0.645229	11.09267	0.180325	1
RTN3	1	2109.368694	3.031489	0.416288	22.07588	0.286077	1
RTP4	1	2629.657588	2.426623	0.333257	17.66953	0.343364	1
RUSC2	1	1483.036469	4.32261	0.593472	31.48417	0.210778	1
RYR3	1	4038.081503	1.571309	0.215822	11.44007	0.476677	1
S100A3	1	2130.539199	3.001112	0.412118	21.85457	0.288591	1
S1PR3	4	9688.048101	2.773268	0.986903	7.793083	0.067137	1
S1PR4	1	3844.694524	1.651635	0.226852	12.02503	0.460102	1
SAFB	1	544.4719571	11.81816	1.620748	86.17555	0.08311	1
SAMD10	1	1895.770867	3.375939	0.463564	24.5855	0.261278	1
SAMD11	1	9412.003785	0.659507	0.090597	4.800947	1	1
SAMD3	2	995.4727071	13.2442	3.190777	54.97369	0.01108	1
SAMD4A	1	615.8398396	10.44561	1.432811	76.15158	0.093573	1
SAMD9L	1	9057.804573	0.686299	0.094277	4.996004	1	1
SAMSN1	1	4314.654179	1.468944	0.201765	10.69462	0.499603	1
SAPCD1	1	129.6985168	49.6944	6.776578	364.4219	0.020623	1
SASH1	1	5361.34883	1.177156	0.161694	8.569892	0.57767	1
SBDS	3	6520.382751	3.046276	0.939013	9.882499	0.084836	1
SBNO2	1	1331.30477	4.81819	0.661463	35.09638	0.191357	1
SCARF1	1	12805.59048	0.477937	0.065656	3.479097	0.722403	1
SCEL	1	1462.58876	4.383401	0.601812	31.92724	0.208249	1
SCLY	1	1252.096333	5.124614	0.703498	37.33014	0.18108	1
SCML4	2	5837.099727	2.215041	0.534246	9.183802	0.237643	1
SCN2A	1	1869.20745	3.424279	0.470199	24.93772	0.258075	1
SCN7A	1	4762.885113	1.328289	0.182449	9.670386	0.534625	1
SCNN1A	3	10462.74353	1.867888	0.57583	6.059091	0.231447	1
SCNN1D	2	6261.613406	2.061301	0.497173	8.546247	0.262775	1
SCRN2	1	1320.402209	4.858186	0.66695	35.38793	0.189934	1
SCUBE2	1	3101.349039	2.053653	0.282052	14.9529	0.391279	1
SDCBP2	2	7027.223215	1.83099	0.441634	7.591189	0.308068	1
SDF2L1	1	3125.509141	2.03758	0.279845	14.83583	0.393724	1
SDR39U1	1	14657.12454	0.414324	0.056918	3.015999	0.729476	1
SEC14L3	2	10483.47318	1.209987	0.291867	5.016226	0.683129	1
SEC14L4	1	9376.385903	0.66211	0.090954	4.819895	1	1
SEC14L5	1	734.9914969	8.748087	1.200269	63.75988	0.110612	1
SEC16B	2	7828.683991	1.638155	0.39513	6.791569	0.355066	1
SEC63	1	269.2722931	23.92267	3.27482	174.7558	0.042053	1
SEL1L	1	3575.097193	1.778118	0.244219	12.94616	0.436051	1
SEMA3C	1	8572.503584	0.726603	0.099813	5.289433	1	1
SEMA5B	1	3956.099976	1.604403	0.220366	11.68106	0.469696	1
SEMA6A	2	2491.861468	5.259314	1.2681	21.81246	0.059822	1
SENP6	1	2802.936554	2.275023	0.312445	16.56527	0.361376	1
SEPT10	3	3628.882094	5.538161	1.706796	17.97007	0.019979	1
SEPT14	1	4532.32313	1.397165	0.191908	10.17193	0.516876	1
SERINC5	1	496.9113574	12.95175	1.775908	94.45757	0.076217	1
SERPINA1	2	10424.00382	1.217191	0.293604	5.046092	0.68189	1
SERPINA5	1	1098.624994	5.844074	0.802177	42.57562	0.160814	1
SERPINB3	2	7601.008085	1.688799	0.407343	7.001571	0.341789	1
SERPINB9	1	578.8096843	11.11553	1.524549	81.04358	0.088211	1
SERTAD4	1	3012.807564	2.11476	0.290442	15.39797	0.382593	1
SESN1	1	424.1421064	15.17826	2.080506	110.7325	0.06541	1
SETD2	1	5674.761169	1.110727	0.15257	8.086193	0.598692	1
SEZ6L2	1	6091.770974	1.032937	0.141887	7.51979	0.625039	1
SFI1	1	15185.75288	0.399008	0.054814	2.904506	0.516135	1
SFT2D2	1	335.8568651	19.17485	2.62675	139.9733	0.052218	1
SGK2	2	878.8073543	15.00941	3.615399	62.3119	0.008751	1
SH2D3A	1	1562.788825	4.10071	0.563025	29.86694	0.220816	1
SH2D4A	1	9748.616373	0.635849	0.087347	4.628712	1	1
SH2D5	1	2070.329971	3.089136	0.4242	22.49587	0.281598	1
SH3BP2	2	4153.3307	3.13436	0.755905	12.99662	0.14129	1

SH3GL1	1	2966.246361	2.148358	0.295054	15.64268	0.377905	1
SH3PXD2/	1	6687.82499	0.938591	0.128929	6.832854	1	1
SH3PXD2E	1	1183.721578	5.422106	0.744304	39.49897	0.172133	1
SH3TC1	2	7767.929416	1.651379	0.398319	6.846403	0.351522	1
SHANK2	2	7845.818192	1.634462	0.394239	6.776258	0.356053	1
SHBG	1	296.1890725	21.74631	2.977866	158.8057	0.046162	1
SHCBP1L	2	5352.576393	2.420314	0.583743	10.0351	0.209247	1
SHROOM:	1	645.8562997	9.958957	1.366157	72.59841	0.097899	1
SIDT1	3	12318.6243	1.574263	0.485323	5.106505	0.446106	1
SIGIRR	2	7796.258629	1.645187	0.396826	6.820728	0.353149	1
SIGLEC12	4	14685.09095	1.791771	0.637666	5.034679	0.293814	1
SIGLEC6	1	4355.4409	1.454947	0.199843	10.5927	0.502832	1
SIK3	1	1832.516067	3.493354	0.479679	25.44103	0.253783	1
SIL1	1	3213.989425	1.98078	0.272046	14.42214	0.402257	1
SIM1	1	511.2447935	12.58792	1.726114	91.79907	0.078276	1
SIMC1	1	2134.728424	2.995172	0.411303	21.81129	0.289048	1
SIN3B	1	652.5108008	9.857131	1.352209	71.85503	0.098905	1
SIRT2	1	2979.511583	2.138679	0.293725	15.57218	0.379305	1
SIRT3	1	701.1520789	9.17153	1.258287	66.85036	0.105776	1
SKIV2L	1	6141.593999	1.024349	0.140707	7.457263	1	1
SLC10A2	1	5480.52189	1.151002	0.158102	8.379449	0.585828	1
SLC12A1	2	1864.596311	7.046295	1.698658	29.22911	0.035655	1
SLC12A3	1	10062.70386	0.615202	0.084511	4.478396	1	1
SLC12A8	1	2303.06414	2.774375	0.380995	20.20275	0.307956	1
SLC12A9	1	1118.34688	5.740562	0.787981	41.82086	0.163357	1
SLC13A2	2	1496.385064	8.793107	2.119387	36.48165	0.023805	1
SLC13A3	1	6356.614393	0.988832	0.135829	7.198659	1	1
SLC14A2	2	11889.36028	1.060686	0.255857	4.397202	0.713949	1
SLC17A2	1	886.3226383	7.250056	0.994958	52.82971	0.131783	1
SLC18A3	1	631.7435413	10.18201	1.396708	74.22687	0.095883	1
SLC1A7	1	3350.369001	1.899107	0.260832	13.82731	0.415214	1
SLC22A1	3	21787.985	0.854828	0.263546	2.772682	1	1
SLC22A10	1	10444.89221	0.591753	0.08129	4.307683	1	1
SLC22A11	2	1722.509091	7.631874	1.839715	31.66007	0.030867	1
SLC22A16	3	5543.224322	3.597566	1.108899	11.67147	0.05788	1
SLC22A18	1	2580.734194	2.473111	0.339639	18.00816	0.338173	1
SLC22A24	2	6582.075466	1.95838	0.472354	8.119446	0.281739	1
SLC23A3	1	793.0239323	8.106037	1.112285	59.07465	0.118803	1
SLC25A18	1	426.0098314	15.1116	2.07139	110.2451	0.065708	1
SLC25A25	1	954.7015538	6.728947	0.923515	49.02866	0.141293	1
SLC25A32	1	1899.291832	3.369633	0.462699	24.53955	0.261633	1
SLC25A34	1	1862.87928	3.435998	0.471807	25.02311	0.257361	1
SLC25A45	3	8116.630813	2.431238	0.749465	7.886851	0.138153	1
SLC25A47	1	3016.030649	2.112472	0.290127	15.38131	0.382891	1
SLC25A48	1	88.32872501	72.98136	9.917549	537.056	0.014057	1
SLC26A1	5	11536.15034	2.971527	1.163963	7.586128	0.035191	1
SLC26A11	1	7158.673354	0.87517	0.120218	6.371097	1	1
SLC26A2	2	5215.202357	2.485454	0.59945	10.30525	0.201222	1
SLC26A5	1	1225.957406	5.234424	0.71856	38.13067	0.17767	1
SLC26A6	1	2953.929516	2.157422	0.296299	15.7087	0.376703	1
SLC27A5	1	1992.91628	3.210127	0.440807	23.37739	0.272674	1
SLC28A2	1	7026.891145	0.892064	0.122539	6.494098	1	1
SLC2A11	1	12334.31994	0.497178	0.068299	3.619168	0.722415	1
SLC2A4	1	544.1247518	11.82571	1.621782	86.23075	0.08311	1
SLC2A9	3	5746.326139	3.467546	1.068834	11.24953	0.063085	1
SLC35D2	1	417.146378	15.43324	2.115375	112.597	0.064367	1
SLC35E2	1	3325.056477	1.913759	0.262844	13.93402	0.412853	1
SLC36A4	1	1309.529298	4.898736	0.672512	35.68352	0.188638	1
SLC38A6	1	3378.456394	1.883105	0.258635	13.71077	0.417847	1
SLC39A12	2	6692.350603	1.925243	0.464363	7.982033	0.288255	1
SLC39A13	1	799.4817435	8.040354	1.103283	58.59539	0.119646	1
SLC39A2	1	4864.294186	1.300063	0.178573	9.46485	0.542184	1
SLC39A5	1	5398.632961	1.168849	0.160553	8.509406	0.58027	1
SLC44A5	1	1313.206235	4.884947	0.670621	35.58301	0.189027	1
SLC4A1AP	1	611.0704695	10.52734	1.444004	76.74833	0.092851	1
SLC4A5	1	1518.280962	4.221673	0.579622	30.74851	0.215185	1
SLC5A3	1	1760.605771	3.637084	0.499404	26.48835	0.245127	1
SLC5A4	1	9922.464673	0.62426	0.085755	4.544336	1	1
SLC6A20	1	1311.848896	4.890028	0.671318	35.62005	0.188897	1
SLC6A7	1	1035.816528	6.199994	0.850987	45.171	0.152327	1
SLC7A13	1	10532.03959	0.586644	0.080588	4.270491	1	1
SLC7A4	1	3906.584863	1.625063	0.223203	11.83152	0.465482	1
SLC8A3	1	1854.2173	3.452169	0.474026	25.14094	0.25629	1

SLC9A3R1	5	2090.603521	17.04261	6.67033	43.54366	2.06E-05	0.048248115
SLC9C1	1	2432.279928	2.625623	0.360576	19.11912	0.322141	1
SLCO1B7	1	3784.184775	1.678455	0.230534	12.22035	0.454757	1
SLCO2B1	1	6207.076141	1.013273	0.139186	7.37661	1	1
SLK	1	1700.545634	3.766445	0.517156	27.431	0.237839	1
SMAD9	1	794.5737915	8.090176	1.110111	58.95892	0.119084	1
SMCO3	1	8334.923991	0.748045	0.102758	5.445542	1	1
SMG7	1	2369.107417	2.696319	0.370281	19.63412	0.315249	1
SMOX	1	604.4831127	10.64234	1.459753	77.58807	0.091838	1
SMTNL2	1	1535.848325	4.173091	0.572956	30.39445	0.217442	1
SMUG1	1	509.5998964	12.62863	1.731686	92.09655	0.078129	1
SMYD1	2	3807.534325	3.4238	0.825684	14.1972	0.122821	1
SNAI3	1	1999.555038	3.199384	0.439333	23.29911	0.273489	1
SNAP91	1	546.1935931	11.78082	1.615637	85.90285	0.083403	1
SNAPC1	1	505.5601036	12.72975	1.745525	92.83537	0.077541	1
SNAPC4	1	7641.140994	0.818293	0.112406	5.956984	1	1
SNCAIP	1	6032.439892	1.043349	0.143317	7.595598	0.621354	1
SNRK	1	2571.492136	2.482092	0.340872	18.07358	0.337109	1
SNX17	2	1541.692976	8.533145	2.056783	35.40216	0.025175	1
SNX4	1	195.7867287	32.9113	4.499232	240.7419	0.030856	1
SOGA2	1	3785.698678	1.677774	0.230441	12.21539	0.454933	1
SORBS2	1	4580.492657	1.382202	0.189853	10.06297	0.520618	1
SORL1	2	6565.240249	1.963537	0.473598	8.14083	0.280731	1
SOX4	1	3756.214074	1.691145	0.232277	12.31276	0.452287	1
SOX9	1	124.4952708	51.77243	7.057757	379.7786	0.019688	1
SP3	1	262.5411334	24.53666	3.358563	179.2576	0.041137	1
SPAG16	2	9665.812452	1.316796	0.317627	5.459081	0.666601	1
SPAG17	1	4033.889342	1.572969	0.216049	11.45215	0.476339	1
SPATA17	1	5147.749032	1.227065	0.168548	8.933302	0.562803	1
SPATA18	1	2815.485412	2.264769	0.311037	16.49058	0.362607	1
SPATA5L1	1	6626.275888	0.947547	0.130159	6.898065	1	1
SPATA6	3	4403.213504	4.549984	1.402362	14.76249	0.032806	1
SPATC1	1	2511.382389	2.542114	0.349112	18.5108	0.330688	1
SPDL1	1	6835.951532	0.917697	0.126059	6.680728	1	1
SPDYE1	1	1942.328265	3.294403	0.452374	23.99142	0.266704	1
SPECC1	4	5484.659286	4.983827	1.773298	14.00697	0.011081	1
SPECC1L	1	4377.770528	1.447395	0.198805	10.5377	0.504679	1
SPHKAP	1	2933.32171	2.172759	0.298405	15.82041	0.374593	1
SPIB	1	150.9682553	42.6894	5.827442	312.7247	0.023891	1
SPICE1	3	6617.815108	3.000233	0.924824	9.733093	0.087796	1
SPINK5	3	5223.87702	3.82245	1.178196	12.40127	0.050143	1
SPRN	1	352.3399531	18.27661	2.504038	133.3984	0.05463	1
SPRY1	1	196.057268	32.86585	4.493049	240.4078	0.030856	1
SPSB3	2	1399.346985	9.406517	2.267094	39.02907	0.021023	1
SPTA1	2	17899.39947	0.68687	0.165692	2.847394	1	1
SPTBN5	5	13820.38057	2.456782	0.962363	6.271832	0.066784	1
SRFBP1	1	2235.759243	2.858666	0.392566	20.81681	0.300475	1
SRGAP1	1	1040.10205	6.174342	0.847469	44.98394	0.152868	1
SRP68	3	1399.426993	14.49029	4.462538	47.05135	0.001464	1
SRRM1	3	2997.068029	6.722758	2.071678	21.81588	0.012057	1
SSFA2	2	18113.36284	0.678135	0.163585	2.81118	1	1
SSH1	1	1597.184429	4.011848	0.550831	29.21934	0.225044	1
SSUH2	2	4544.675907	2.859926	0.68974	11.85835	0.162953	1
SSX7	2	6322.592517	2.040913	0.492257	8.461699	0.266389	1
ST7L	1	3977.71147	1.595546	0.21915	11.61657	0.471578	1
STAB2	2	6366.261427	2.026553	0.488794	8.402148	0.268938	1
STAM	1	592.2231706	10.86319	1.489996	79.20076	0.090099	1
STARD13	1	2741.315336	2.326739	0.319545	16.94197	0.354977	1
STARD3	1	368.1135157	17.49237	2.396872	127.6592	0.057036	1
STPG2	1	1659.529194	3.860169	0.530018	28.11398	0.23282	1
STRA6	1	853.8603796	7.526666	1.032875	54.84758	0.127338	1
STX2	2	3993.618263	3.261814	0.786633	13.52528	0.132701	1
STX4	1	344.4463815	18.69604	2.561342	136.4683	0.053425	1
STXBP5L	1	2855.808638	2.232429	0.306597	16.25502	0.366797	1
STYXL1	1	1517.251587	4.224554	0.580018	30.76952	0.215059	1
SULT1A1	1	1207.264138	5.315871	0.729732	38.72445	0.17517	1
SULT1A2	1	3107.592329	2.049475	0.281478	14.92247	0.391965	1
SULT2B1	2	4506.062795	2.884884	0.695758	11.96186	0.16077	1
SULT6B1	4	8211.077583	3.292096	1.171494	9.251348	0.040889	1
SUMF2	1	4687.431268	1.350084	0.185442	9.829088	0.528857	1
SUN1	2	4091.896869	3.182208	0.767441	13.19509	0.13798	1
SURF2	1	204.8939245	31.4473	4.300035	229.9826	0.032243	1
SURF6	1	4813.480772	1.314058	0.180495	9.566756	0.538382	1

SUSD1	1	1460.918484	4.388442	0.602504	31.96398	0.207995	1
SUV420H1	1	199.7752314	32.25371	4.409769	235.9085	0.031473	1
SUZ12	1	1229.176155	5.22065	0.716671	38.03025	0.178064	1
SV2C	1	823.0811498	7.809085	1.071586	56.90801	0.12301	1
SVEP1	2	13889.83768	0.900341	0.217182	3.732411	1	1
SVIL	2	4237.659066	3.07094	0.740615	12.73356	0.145931	1
SYBU	1	3095.762503	2.057405	0.282567	14.98023	0.390788	1
SYCP1	1	2812.795398	2.266959	0.311338	16.50654	0.362402	1
SYCP2	5	6212.336567	5.640474	2.209068	14.40198	0.00295	1
SYDE2	1	2241.139955	2.851741	0.391615	20.76636	0.301036	1
SYNE1	13	33687.02418	3.113097	1.606186	6.033782	0.001555	1
SYNE2	3	20337.89299	0.921558	0.284118	2.989142	1	1
SYNJ2	1	5918.813815	1.06387	0.146135	7.745021	0.614319	1
SYNM	1	3018.543818	2.110692	0.289883	15.36834	0.383189	1
SYPL2	1	3068.275965	2.076065	0.285129	15.11614	0.388036	1
SYT5	1	490.6046551	13.11858	1.798737	95.67661	0.075333	1
SYT8	1	3847.169298	1.650556	0.226704	12.01718	0.460276	1
SYTL4	2	1581.608799	8.316462	2.004599	34.50242	0.026392	1
SYTL5	3	604.1433743	33.67178	10.35393	109.5032	0.000129	0.302087682
SZT2	4	4614.766914	5.944233	2.114885	16.70725	0.006131	1
TAAR2	1	2258.650613	2.829433	0.388553	20.60385	0.303052	1
TACC2	3	15349.93547	1.247365	0.384555	4.046027	0.734571	1
TACR3	1	757.3521672	8.489044	1.164773	61.86946	0.113727	1
TADA1	1	5701.697077	1.105358	0.151833	8.047104	0.600451	1
TAF1B	1	1164.793317	5.510633	0.756446	40.14441	0.169615	1
TAF1C	1	7977.311274	0.782729	0.107522	5.698056	1	1
TAF1L	2	7475.696571	1.71799	0.414383	7.122614	0.334479	1
TAF4	1	559.4525301	11.50101	1.577329	83.85902	0.0853	1
TAF8	1	1535.971822	4.172753	0.57291	30.39199	0.217442	1
TAPBP	1	1834.27877	3.489973	0.479215	25.41639	0.253903	1
TAPT1	1	618.0119754	10.40881	1.427771	75.88285	0.093862	1
TARS	1	6148.037976	1.023249	0.140556	7.44925	1	1
TAS2R19	1	2950.251425	2.160144	0.296673	15.72852	0.376301	1
TAS2R31	1	4665.204251	1.356638	0.186342	9.876817	0.527174	1
TAS2R46	1	205.8486259	31.30134	4.280169	228.9101	0.032397	1
TAS2R9	1	2320.032339	2.753896	0.378184	20.05356	0.309842	1
TBC1D7	1	2645.29707	2.412125	0.331267	17.56392	0.344945	1
TBC1D8B	1	1019.773578	6.297935	0.864417	45.88524	0.150159	1
TBCE	1	1628.306048	3.93468	0.540242	28.65698	0.22888	1
TBCK	1	2005.538781	3.189762	0.438012	23.22901	0.274188	1
TBXAS1	3	9111.096555	2.157021	0.664948	6.997148	0.17597	1
TCEANC2	1	575.4395272	11.18078	1.533484	81.52012	0.08763	1
TCEB3	2	840.7280432	15.69162	3.779463	65.14863	0.008043	1
TCERG1L	1	2182.492846	2.929061	0.402229	21.32965	0.294388	1
TCF3	4	9413.870522	2.857275	1.016792	8.029194	0.061724	1
TCHH	1	2380.732702	2.683027	0.368456	19.5373	0.316567	1
TCP11	2	3997.188792	3.258854	0.785919	13.513	0.132862	1
TCTN1	1	5885.458152	1.070045	0.146983	7.789981	0.612178	1
TDO2	3	8525.50809	2.310749	0.712329	7.495916	0.153347	1
TDRD10	1	171.394612	37.59874	5.136436	275.2229	0.026992	1
TDRD12	1	8082.579741	0.7722	0.106075	5.621404	1	1
TDRD5	1	1470.542261	4.359555	0.598541	31.75343	0.209261	1
TECPR2	2	6664.278302	1.933575	0.466372	8.016582	0.286597	1
TEKT4	2	9628.1868	1.322148	0.318918	5.48127	0.66587	1
TEKT5	1	11249.32954	0.547603	0.075226	3.986267	1	1
TENM1	2	1788.477073	7.348431	1.77144	30.48336	0.033025	1
TENM2	1	4462.317093	1.419486	0.194973	10.33447	0.511369	1
TEP1	3	11733.23632	1.656851	0.51078	5.374434	0.434134	1
TESK1	1	679.2779326	9.467698	1.298862	69.01217	0.102633	1
TET2	2	19727.12009	0.618355	0.149165	2.56335	0.767843	1
TEX15	1	4019.678047	1.578621	0.216826	11.49331	0.475153	1
TEX19	2	1228.862917	10.71882	2.58303	44.47994	0.016505	1
TFDP3	1	7456.166891	0.839229	0.115282	6.109416	1	1
TFEC	2	5653.565609	2.288658	0.551997	9.489095	0.226868	1
TFR2	1	6122.760596	1.027579	0.141151	7.480779	0.626928	1
TG	1	11766.21303	0.522421	0.071767	3.802939	1	1
TGDS	1	401.2306624	16.04645	2.199223	117.0816	0.061979	1
TGFBR2	1	672.3870478	9.564989	1.31219	69.72236	0.101631	1
TGM1	1	5788.999925	1.088302	0.149491	7.922912	0.606069	1
TGM6	1	9161.190172	0.678265	0.093173	4.937511	1	1
TGS1	1	3442.823591	1.847419	0.253735	13.45087	0.423916	1
THAP3	1	1370.886264	4.678334	0.642276	34.07694	0.196513	1
THBS2	1	3746.04553	1.695805	0.232917	12.3467	0.451402	1

THBS3	1	3454.387201	1.841149	0.252874	13.4052	0.424937	1
THBS4	2	1850.434473	7.100624	1.711746	29.45464	0.035136	1
THEG	2	6787.247913	1.897589	0.457694	7.867357	0.29388	1
THSD1	1	4608.441686	1.373664	0.18868	10.0008	0.522787	1
THSD7A	1	2206.433389	2.897001	0.397828	21.09609	0.297099	1
THUMPDE	1	786.3523169	8.175028	1.12174	59.57806	0.117818	1
TIAM1	2	4264.260628	3.051454	0.735917	12.65274	0.147357	1
TIAM2	1	8362.676371	0.745478	0.102405	5.426849	1	1
TIMM44	2	1063.39137	12.39493	2.986431	51.44412	0.012558	1
TJP1	3	16946.80238	1.122188	0.345967	3.639959	0.750007	1
TJP3	4	6610.159127	4.116321	1.464714	11.56819	0.020573	1
TLDC2	1	5595.969298	1.126727	0.154768	8.202696	0.593501	1
TLE2	2	4218.032809	3.085474	0.744119	12.79385	0.144836	1
TLL2	1	6546.46443	0.959412	0.131789	6.984451	1	1
TLN1	1	1085.518866	5.914942	0.811896	43.09237	0.159069	1
TLN2	1	5321.989188	1.186052	0.162915	8.634664	0.574985	1
TLR2	2	13267.36167	0.945052	0.227967	3.917783	1	1
TLR5	1	1448.797024	4.425373	0.607571	32.23315	0.206474	1
TM4SF19	1	806.7359545	7.967824	1.093342	58.06619	0.120769	1
TM6SF2	1	4146.482504	1.52956	0.210089	11.13604	0.485735	1
TMC1	1	2304.251631	2.772932	0.380797	20.19223	0.308067	1
TMC8	3	7572.553891	2.611745	0.805097	8.47253	0.118844	1
TMCO2	3	4252.83602	4.713735	1.452813	15.29398	0.030051	1
TMCO4	1	3815.311195	1.664553	0.228625	12.11911	0.45748	1
TMEM102	1	860.0182441	7.47259	1.025463	54.45309	0.128173	1
TMEM131	2	1573.389862	8.360179	2.015128	34.68395	0.026116	1
TMEM132	2	9159.091964	1.392559	0.335899	5.773217	0.6572	1
TMEM136	1	358.3478531	17.96977	2.462111	131.1527	0.055533	1
TMEM14B	1	1431.162602	4.480217	0.615096	32.63289	0.204186	1
TMEM168	1	308.0160617	20.91033	2.863748	152.6817	0.047983	1
TMEM175	1	11033.65486	0.558809	0.076765	4.067842	1	1
TMEM189	1	113.3498382	56.86562	7.746175	417.4575	0.017971	1
TMEM198	1	306.5392495	21.01119	2.877518	153.4205	0.047831	1
TMEM200	1	388.6213823	16.56793	2.270516	120.8959	0.060185	1
TMEM222	2	2743.366791	4.772327	1.150737	19.79175	0.07071	1
TMEM223	1	4521.688702	1.400511	0.192367	10.19629	0.516093	1
TMEM245	1	889.9190185	7.220654	0.990927	52.61523	0.132337	1
TMEM25	1	1531.042717	4.18627	0.574764	30.4905	0.216816	1
TMEM255	1	9766.059316	0.634668	0.087185	4.620111	1	1
TMEM259	1	1447.226846	4.430202	0.608234	32.26834	0.20622	1
TMEM68	1	674.5135798	9.534753	1.308048	69.50164	0.102061	1
TMEM70	1	132.2110272	48.74953	6.64867	357.4424	0.020935	1
TMEM74B	1	330.6789271	19.4755	2.667815	142.1744	0.051463	1
TMPRSS11	1	1056.52865	6.077947	0.83425	44.281	0.155165	1
TMPRSS11	1	281.0873463	22.91604	3.137494	167.3771	0.043881	1
TMPRSS13	1	616.7808622	10.42964	1.430623	76.03492	0.093718	1
TMPRSS15	3	8410.854804	2.343354	0.722378	7.601703	0.14902	1
TMPRSS7	1	14891.54812	0.407398	0.055966	2.96558	0.73107	1
TMX2	1	169.2298677	38.08002	5.201811	278.7659	0.026683	1
TNC	2	10049.9885	1.264448	0.305002	5.24203	0.674188	1
TNFAIP6	1	7350.160927	0.851702	0.116995	6.200232	1	1
TNFRSF13	1	1501.516536	4.269094	0.586129	31.09413	0.213173	1
TNFSF9	1	833.2357912	7.713603	1.058499	56.21139	0.124409	1
TNIP2	2	11808.92791	1.068269	0.257686	4.428641	0.712151	1
TNIP3	1	7849.47933	0.795893	0.10933	5.793902	1	1
TNKS1BP1	2	11097.38417	1.140139	0.27502	4.726622	0.696334	1
TNRC18	2	11033.24135	1.147073	0.276693	4.755373	0.694934	1
TNRC6A	1	1573.360719	4.072984	0.55922	29.66488	0.222062	1
TNRC6C	1	5719.351731	1.101867	0.151354	8.021684	0.601555	1
TNS1	4	29649.78287	0.831358	0.295887	2.335876	1	1
TNS3	2	7704.619025	1.665381	0.401696	6.904464	0.347855	1
TOPAZ1	4	5378.342488	5.084542	1.809121	14.29013	0.010367	1
TOR3A	2	1011.952252	13.02766	3.138678	54.0737	0.011442	1
TOX	1	190.3376755	33.85423	4.627484	247.6742	0.02993	1
TP53BP1	1	6127.222562	1.026812	0.141046	7.475194	0.627172	1
TP53I13	1	2314.196679	2.760905	0.379146	20.10462	0.309177	1
TPD52	1	6501.081253	0.966289	0.132733	7.034519	1	1
TPD52L3	1	1425.044693	4.499561	0.61775	32.77388	0.203422	1
TPMT	1	16955.33266	0.354689	0.048726	2.581874	0.521237	1
TPSD1	2	1422.96307	9.249529	2.229294	38.37708	0.021697	1
TRABD2A	3	8155.11666	2.419382	0.745811	7.848382	0.139541	1
TRAF3	1	506.5865669	12.7039	1.741988	92.64653	0.077688	1
TRAP1	1	5033.378505	1.255529	0.172457	9.140569	0.554565	1

TRDN	1	2642.56276	2.414647	0.331613	17.5823	0.344735	1
TREX1	1	368.5779408	17.47029	2.393855	127.4977	0.057186	1
TREX2	1	1113.603426	5.765124	0.79135	41.99995	0.162822	1
TRHDE	1	209.4573823	30.7616	4.206705	224.9447	0.032859	1
TRIM16	1	10566.92511	0.584623	0.080311	4.255775	1	1
TRIM22	2	11784.73596	1.07057	0.258241	4.438182	0.711612	1
TRIM29	1	11027.1546	0.559153	0.076812	4.07035	1	1
TRIM41	1	1728.33141	3.705481	0.50879	26.98675	0.241127	1
TRIM45	2	7952.253027	1.611882	0.388794	6.682627	0.362194	1
TRIM46	1	5385.762837	1.171704	0.160945	8.530191	0.579382	1
TRIM47	1	709.2041433	9.067108	1.243981	66.08821	0.106916	1
TRIM48	1	215.6050863	29.88374	4.087193	218.4967	0.033936	1
TRIM51	2	6591.551386	1.955489	0.471657	8.107457	0.282331	1
TRIM59	1	445.6038395	14.44599	1.98035	105.3787	0.068668	1
TRIM63	1	1573.74217	4.07199	0.559084	29.65764	0.222186	1
TRIML1	1	2065.394201	3.096579	0.425222	22.5501	0.281021	1
TRIOBP	3	9637.291631	2.034821	0.627284	6.600679	0.197087	1
TRIP11	1	10091.73853	0.613358	0.084258	4.464973	1	1
TRMT44	1	1112.12794	5.772806	0.792403	42.05597	0.162554	1
TRNAU1A	1	439.9655683	14.63145	2.005718	106.7345	0.067789	1
TRPM1	4	7564.694558	3.582891	1.274949	10.06873	0.031686	1
TRPM2	1	14393.85218	0.422371	0.058023	3.074581	0.727859	1
TRPM3	1	2318.912002	2.755239	0.378369	20.06334	0.309731	1
TRPM4	1	4163.00977	1.523386	0.209241	11.09108	0.487147	1
TRPM8	1	2362.976038	2.703382	0.37125	19.68557	0.31459	1
TRPV1	1	1397.566838	4.588532	0.629956	33.42237	0.199974	1
TSACC	2	3686.00049	3.538424	0.853317	14.67267	0.116448	1
TSC22D1	1	968.7192618	6.631205	0.910114	48.31578	0.14321	1
TSEN54	1	3918.734529	1.619945	0.2225	11.79425	0.466517	1
TSNARE1	1	1421.882681	4.509624	0.61913	32.84723	0.203039	1
TSNAXIP1	2	9445.855275	1.348685	0.325318	5.591301	0.662426	1
TSPAN32	1	963.0108634	6.670665	0.915525	48.60358	0.142389	1
TSPEAR	1	2214.91199	2.885813	0.396292	21.01458	0.298114	1
TSPYL6	2	7489.760784	1.714665	0.413581	7.108827	0.335299	1
TSTA3	1	688.5962869	9.33923	1.281263	68.07443	0.104063	1
TTBK1	1	1714.223266	3.736188	0.513004	27.21051	0.239424	1
TTC13	2	605.5480574	21.8063	5.248965	90.59206	0.004281	1
TTC16	1	2045.903374	3.126324	0.429305	22.76681	0.278828	1
TTC27	5	7714.429346	4.514389	1.768155	11.52598	0.007317	1
TTC38	3	3102.569298	6.491397	2.000419	21.0647	0.013228	1
TTC39B	1	1019.146383	6.301826	0.864951	45.91362	0.150023	1
TTC40	3	11314.26205	1.721208	0.530618	5.58322	0.426553	1
TTC6	1	1960.759124	3.263195	0.448091	23.76403	0.268933	1
TTC7A	2	3361.994947	3.884504	0.936744	16.10832	0.099978	1
TTLL2	1	12681.87618	0.48285	0.066331	3.514859	0.722327	1
TTLL4	1	7265.288414	0.861951	0.118403	6.274853	1	1
TTN	7	138780.5786	0.172282	0.07621	0.389465	1.37E-06	0.003192141
TUBB1	2	8607.560954	1.48516	0.358232	6.157176	0.399722	1
TUBB8	1	5257.240826	1.200975	0.164965	8.743327	0.570474	1
TUBGCP6	2	13987.37978	0.893695	0.215579	3.704859	1	1
TUT1	1	3540.125208	1.795937	0.246666	13.07593	0.432858	1
TXNDC11	1	1749.713502	3.659885	0.502533	26.6545	0.243796	1
TXNDC16	3	8790.924235	2.238535	0.690072	7.261616	0.163473	1
TYK2	2	13496.12308	0.928141	0.223888	3.847671	1	1
TYRO3	1	559.5361777	11.49929	1.577093	83.84643	0.085446	1
UBAP2	1	6116.488542	1.028659	0.141299	7.488642	0.626502	1
UBE2Q2	1	134.6784142	47.85594	6.527671	350.8435	0.021402	1
UBE4B	1	2441.286913	2.615841	0.359233	19.04786	0.32312	1
UBN2	1	1275.126619	5.031594	0.690738	36.65202	0.184085	1
UBXN11	1	5077.615874	1.244367	0.170924	9.059292	0.557806	1
UCMA	1	612.6608019	10.49995	1.440252	76.54831	0.09314	1
UCN2	1	805.5403551	7.979688	1.094968	58.15275	0.120628	1
UGGT2	1	15731.5058	0.384276	0.05279	2.797262	0.516225	1
UGT1A1	1	5772.784225	1.091431	0.14992	7.945695	0.605041	1
UGT2B11	3	8212.09754	2.402032	0.740464	7.792089	0.141633	1
UGT2B15	1	5411.703012	1.165965	0.160157	8.4884	0.581156	1
UGT3A1	1	2243.445542	2.848784	0.391209	20.74482	0.30126	1
UIMC1	1	3682.861041	1.725339	0.236972	12.56178	0.445794	1
UNC13C	1	5665.640966	1.112556	0.152822	8.099513	0.598104	1
UNC50	1	66.3723496	97.13252	13.15204	717.3583	0.0106	1
UNC5CL	1	453.5868406	14.1913	1.945509	103.5168	0.069866	1
UNC80	2	3882.403286	3.35676	0.809523	13.91911	0.126729	1
UNC93A	1	4154.368392	1.526608	0.209683	11.11454	0.4864	1

UNC93B1	1	1004.648888	6.393134	0.877471	46.5795	0.148121	1
UPB1	1	668.668775	9.61832	1.319496	70.11167	0.101201	1
UPK2	1	670.776231	9.58802	1.315345	69.89049	0.101488	1
UPK3B	2	4112.03853	3.166363	0.763621	13.12936	0.139063	1
URB1	2	4709.13608	2.758209	0.665216	11.43647	0.172194	1
URB2	1	6206.279681	1.013406	0.139204	7.377581	1	1
UROC1	1	1839.714937	3.479584	0.477789	25.3407	0.25462	1
UROD	1	267.1344212	24.11432	3.300962	176.161	0.041748	1
USH2A	4	24675.7294	1.021338	0.363498	2.8697	1	1
USP20	1	2706.440629	2.357051	0.323706	17.16276	0.351337	1
USP21	1	6383.86152	0.984502	0.135235	7.167133	1	1
USP35	2	5500.731636	2.353709	0.567683	9.758871	0.217893	1
USP54	1	4097.945119	1.547981	0.212618	11.27018	0.481728	1
USP6	1	5581.630374	1.129687	0.155174	8.224251	0.592574	1
USP8	5	14078.47116	2.409125	0.943697	6.150152	0.07112	1
USPL1	3	11792.34073	1.64814	0.508095	5.346174	0.43527	1
UTP11L	1	986.5640171	6.510798	0.893605	47.43762	0.145669	1
UTP20	2	11416.15001	1.106834	0.266987	4.588536	0.70337	1
VCAN	3	3825.653256	5.249137	1.617759	17.03186	0.022916	1
VEPH1	1	1957.746378	3.268256	0.448785	23.80091	0.268582	1
VIM	1	438.0198041	14.69656	2.014624	107.2105	0.067492	1
VN1R2	1	3648.535433	1.741812	0.239234	12.68175	0.442745	1
VPS13B	1	5119.010461	1.234098	0.169514	8.984512	0.56074	1
VPS37C	2	12407.33865	1.014207	0.244647	4.2045	1	1
VPS8	1	2856.87232	2.231588	0.306481	16.2489	0.366899	1
VPS9D1	1	5465.972507	1.154134	0.158532	8.402254	0.584816	1
VRK3	1	7642.297506	0.818165	0.112389	5.956055	1	1
VSIG10L	1	5583.366154	1.129328	0.155125	8.221636	0.592641	1
VSIG8	2	4637.329435	2.801734	0.67571	11.61699	0.168126	1
VSX2	1	289.1644497	22.27522	3.05005	162.681	0.045098	1
VWA2	1	4388.604679	1.443759	0.198306	10.51122	0.50556	1
VWA3A	1	3391.869176	1.875557	0.257599	13.6558	0.41916	1
VWA3B	1	12553.73836	0.48804	0.067044	3.552644	0.722307	1
VWA5A	1	6473.520281	0.970512	0.133313	7.065267	1	1
VWA5B1	2	17221.38168	0.715985	0.172715	2.968097	1	1
VWF	1	13831.67547	0.44058	0.060525	3.20714	0.72504	1
WDFY2	1	339.2072948	18.9852	2.600844	138.5849	0.052671	1
WDFY4	2	3404.771605	3.835039	0.92482	15.90312	0.102123	1
WDHD1	1	896.4927744	7.167518	0.983643	52.22763	0.133168	1
WDR17	2	8634.734684	1.48032	0.357065	6.137109	0.401247	1
WDR27	2	3516.193193	3.711846	0.895123	15.39207	0.107719	1
WDR34	1	1827.498702	3.503016	0.481005	25.51143	0.253066	1
WDR35	1	4945.637748	1.278259	0.175578	9.306075	0.548233	1
WDR41	1	2548.131716	2.505082	0.344028	18.24104	0.334655	1
WDR48	1	883.5196173	7.273139	0.998122	52.99809	0.131506	1
WDR52	3	21772.1599	0.855508	0.263756	2.774889	1	1
WDR6	3	2369.056457	8.526383	2.627102	27.67278	0.00638	1
WDR62	1	1824.338137	3.509129	0.481844	25.55598	0.252707	1
WDR63	1	798.2388603	8.052913	1.105004	58.68703	0.119505	1
WDR65	1	5784.6568	1.089138	0.149605	7.929002	0.605812	1
WDR66	2	2186.648714	6.000756	1.446763	24.8894	0.047485	1
WDR75	1	643.2245022	9.999809	1.371753	72.89666	0.097467	1
WDR81	1	1841.875476	3.475473	0.477225	25.31074	0.254859	1
WDR83	1	243.1636483	26.49401	3.62542	193.6141	0.038079	1
WDR91	1	513.6506947	12.52884	1.718027	91.36741	0.078716	1
WDR96	1	3040.193034	2.095479	0.287794	15.25754	0.385271	1
WFS1	1	6237.72361	1.008168	0.138485	7.339444	1	1
WIPF1	1	775.5783816	8.288948	1.137352	60.40932	0.11641	1
WISP3	1	1142.445191	5.618932	0.7713	40.93402	0.166558	1
WNK1	1	5754.204998	1.095038	0.150416	7.971958	0.603818	1
WNK4	1	3919.898287	1.619457	0.222433	11.79069	0.466603	1
WWC3	1	3913.031483	1.622344	0.222829	11.81172	0.465999	1
WWOX	1	5054.865974	1.250083	0.171709	9.100913	0.556153	1
XDH	4	8776.49164	3.072849	1.093491	8.635101	0.050075	1
XIRP1	1	8454.37014	0.737114	0.101256	5.36596	1	1
XIRP2	1	24679.79956	0.23565	0.032373	1.715331	0.178059	1
XKR9	1	2341.049905	2.728942	0.374759	19.87177	0.312165	1
XYLT1	1	2029.250984	3.152189	0.432855	22.95526	0.276859	1
YIPF3	1	437.1017607	14.72748	2.018853	107.4366	0.067343	1
ZAP70	1	814.4690415	7.891929	1.08294	57.51244	0.12175	1
ZBED5	1	6807.505138	0.921639	0.126601	6.709429	1	1
ZBP1	1	2201.101923	2.90408	0.3988	21.14766	0.296535	1
ZBTB5	1	253.5131991	25.41136	3.477835	185.6722	0.039762	1

ZC2HC1A	3	4113.078118	4.876658	1.503008	15.8228	0.027596	1
ZC3H12C	1	662.2573196	9.711685	1.332286	70.79323	0.100197	1
ZC3H3	2	10765.56858	1.176902	0.283887	4.879049	0.68915	1
ZC3H6	1	4564.702274	1.387072	0.190522	10.09843	0.519452	1
ZC3HC1	1	1762.368562	3.633421	0.498901	26.46165	0.245248	1
ZCWPW1	1	2926.317604	2.178021	0.299127	15.85873	0.373888	1
ZCWPW2	1	142.405234	45.25791	6.175692	331.6679	0.022492	1
ZDHHHC11	2	649.8953028	20.3147	4.890667	84.38254	0.004902	1
ZDHHHC21	1	234.6311812	27.45841	3.756845	200.6908	0.036854	1
ZDHHHC6	1	2540.363619	2.512821	0.345091	18.29741	0.333799	1
ZFAND1	2	293.9468046	44.97807	10.8011	187.2982	0.001045	1
ZFAT	1	1904.278788	3.360741	0.461479	24.47477	0.262224	1
ZFHX3	3	16285.59252	1.171042	0.361027	3.798437	0.74307	1
ZFP14	1	1037.897102	6.187514	0.849275	45.07999	0.152598	1
ZFR2	7	12405.27524	4.088278	1.808176	9.243577	0.00315	1
ZFYVE26	1	6268.601024	1.003076	0.137786	7.302367	1	1
ZG16	1	3833.372227	1.656589	0.227532	12.06111	0.459054	1
ZIC3	1	738.049311	8.711736	1.195288	63.4946	0.111037	1
ZIM3	1	311.3850015	20.68382	2.832822	151.0227	0.048437	1
ZMYND10	1	2054.294598	3.113449	0.427538	22.67301	0.279752	1
ZNF12	1	157.9033933	40.81335	5.57291	298.8976	0.024977	1
ZNF132	1	749.0958956	8.58289	1.177633	62.55431	0.112596	1
ZNF134	1	216.8050265	29.71821	4.064654	217.2809	0.03409	1
ZNF142	3	5471.875203	3.645533	1.12368	11.82713	0.056111	1
ZNF19	5	6852.924803	5.099868	1.997403	13.02123	0.004474	1
ZNF221	2	9334.818393	1.365353	0.329338	5.660414	0.660374	1
ZNF227	1	425.7079934	15.12234	2.072858	110.3236	0.065708	1
ZNF268	2	1113.337497	11.83651	2.852049	49.12366	0.013697	1
ZNF280D	1	4376.025546	1.447983	0.198886	10.54198	0.504519	1
ZNF30	2	6429.830577	2.005997	0.483837	8.316904	0.27273	1
ZNF304	1	123.1554107	52.33597	7.133978	383.9448	0.019532	1
ZNF318	2	17405.67733	0.707846	0.170752	2.934357	1	1
ZNF337	1	384.3295251	16.75323	2.295847	122.2515	0.059436	1
ZNF365	1	1125.498108	5.703925	0.782957	41.55372	0.164292	1
ZNF407	1	2000.478008	3.197896	0.439128	23.28827	0.273489	1
ZNF414	1	412.5351963	15.60603	2.139004	113.8606	0.063771	1
ZNF419	1	3110.545046	2.047505	0.281208	14.90812	0.392258	1
ZNF423	1	1320.460471	4.85797	0.66692	35.38636	0.189934	1
ZNF43	1	2318.845426	2.755319	0.37838	20.06392	0.309731	1
ZNF432	1	3963.435245	1.601386	0.219952	11.6591	0.470296	1
ZNF469	2	7279.908032	1.76561	0.425867	7.320076	0.322976	1
ZNF471	2	4845.465626	2.679125	0.646147	11.10847	0.179926	1
ZNF48	1	589.3388938	10.91648	1.497293	79.58993	0.089664	1
ZNF493	2	5832.751534	2.216732	0.534653	9.190813	0.237407	1
ZNF517	1	1201.237258	5.34267	0.733408	38.91983	0.174378	1
ZNF528	1	4710.907064	1.343228	0.184501	9.779166	0.530686	1
ZNF530	2	10422.87984	1.217328	0.293637	5.04666	0.681869	1
ZNF544	1	4426.67504	1.431122	0.196571	10.4192	0.508592	1
ZNF550	2	3925.439704	3.319381	0.800511	13.76407	0.129014	1
ZNF598	1	1411.206774	4.543934	0.623837	33.0973	0.201636	1
ZNF599	1	3501.638186	1.815959	0.249415	13.22175	0.429371	1
ZNF600	1	5375.30586	1.174033	0.161265	8.547151	0.57863	1
ZNF607	1	6190.131045	1.016116	0.139577	7.397317	1	1
ZNF621	1	767.6762314	8.374535	1.149081	61.03385	0.115281	1
ZNF644	1	2147.979622	2.976536	0.408745	21.67553	0.290529	1
ZNF653	2	3353.468131	3.894515	0.939157	16.14985	0.099531	1
ZNF678	1	6167.540703	1.019932	0.140101	7.4251	1	1
ZNF708	1	7895.208458	0.791135	0.108676	5.759259	1	1
ZNF721	1	3003.047447	2.121716	0.291397	15.44863	0.381599	1
ZNF764	1	5553.516801	1.135536	0.155978	8.266837	0.590715	1
ZNF778	2	11664.65406	1.082133	0.26103	4.486122	0.708922	1
ZNF780B	1	3388.828504	1.877263	0.257833	13.66822	0.418879	1
ZNF804B	1	1102.593714	5.822946	0.79928	42.42156	0.16135	1
ZNF808	1	3879.773561	1.63647	0.224769	11.91459	0.463145	1
ZNF836	2	7096.150709	1.812694	0.437222	7.515319	0.312139	1
ZNF839	1	744.3787285	8.637443	1.185108	62.95242	0.111888	1
ZNF845	1	1079.10269	5.950264	0.81674	43.34993	0.158129	1
ZNF98	1	542.5978466	11.85906	1.626348	86.47437	0.082964	1
ZP4	1	2411.972881	2.647944	0.36364	19.28173	0.319961	1
ZPBP2	1	1837.221369	3.484342	0.478442	25.37536	0.254261	1
ZSCAN30	1	5064.449488	1.247669	0.171377	9.083334	0.5568	1
ZSCAN5B	1	1110.898874	5.779222	0.793283	42.10274	0.162421	1
ZSWIM4	2	5054.93764	2.565923	0.618853	10.63898	0.19197	1

ZUFSP	1	594.7760009	10.81645	1.483596	78.85947	0.090534	1
ZYX	1	1252.488403	5.123002	0.703277	37.31838	0.18108	1