Supplementary Table 1. methylation level for all significant differentially methylated genes from PD patients and normal subjects in this study.

Gene	H1	H2	H3	H4	P1	P2	P3	P4	P5	P6	P7	P8	diff	P value
A1BG	56.782787	44.075949	59.496855	56.24	73.944828	58.173913	64.836257	70.351515	73.496	65.165517	66.617143	60.582938	-12.49712	0.0072648
ABAT	83.776805	80.568282	83.974886	82.442718	87.402576	84.689024	86.1802	85.187919	87.345455	85.374507	82.091097	83.477766	-2.527895	0.0403071
ABCC8	67.315467	59.371601	60.475728	63.505181	70.80102	70.128266	71.119163	66.219858	67.364583	77.643326	67.361068	69.144928	-7.305782	0.007431
ABHD12B	56.743842	70.355556	63.852632	67.142857	83.851064	66.049383	74.932584	69.921569	68.931373	72.040541	72.806763	69.021053	-7.670569	0.0479835
ABLIM2	73.040179	71.149533	71.572895	68.79291	74.377619	76.186777	75.373041	73.183028	75.953175	78.492958	74.460465	75.041101	-4.244641	0.0017258
ABRA	74.645833	84.64	92.857143	85.714286	69.622222	70.769231	79.407407	76.153846	68.941176	77.686275	78.1875	76.304348	9.8303148	0.0138738
ABRACL	29.453333	39.04	23.595506	29.837209	44.464286	27.636364	38.363636	44.897959	50.324675	38.967742	44.204225	47.615385	-11.57777	0.0203086
ABRAXAS	81.858974	84.179688	86.461538	80.006329	79.622093	73.325	83.019355	80.103604	76.854839	81.460967	77.070513	78.104294	4.4315494	0.0348622
ACACA	84.049135	83.132581	83.830056	84.221925	87.347439	88.884139	85.979036	86.890553	86.413904	83.966543	85.563415	83.595397	-2.271629	0.0309098
ACAN	74.750487	72.325342	66.335766	69.579104	77.198091	79.502959	76.887265	70.335211	79.371501	77.887872	74.099467	72.645378	-5.243293	0.0305443
ACER2	76.92623	64.284768	71.638889	75.452055	80.983425	76.8125	80.368	76.424658	73.878049	80.484375	80.400722	77.751825	-6.312459	0.020994
ACIN1	64.676667	49.343137	74.146893	54.873563	80.125	78.413793	67.505338	66.803109	79.065421	66.961165	66.774775	69.015432	-11.07294	0.045256
ACLY	83.252252	81.343284	73.982578	83.058442	81.294833	91.101124	86.706897	88.763934	93.983974	83.839244	86.367232	81.313725	-6.262231	0.0454816
ACMSD	80.709677	79.619048	77.571429	71.428571	81.350515	84.642857	77.945783	83.55914	84.700787	85.300885	87.221557	83.351351	-6.176928	0.0115352
ACP2	84.191304	80.555556	93.571429	76.903614	72.857143	84.492754	71.509091	72.794118	74.045977	77.033333	81.736364	75.66087	7.5392697	0.0494436
ACSBG1	77.060674	73.525641	77.884462	77.606299	80.681234	82.006944	85.058824	84.292453	83.985163	83.119221	79.69697	79.205479	-5.736517	0.0014499
ACSM6	82.077922	75.6	75.634615	72.196078	77.071429	83.181818	85.541176	76.692308	89.15625	81.253731	88.142857	91.029412	-7.631469	0.0335819
ACTR3B	82.844156	74.069069	73.164516	79.355634	79.738035	83.87172	82.252427	91.283489	81.384196	84.464444	81.714765	78.883987	-5.590789	0.0491587
ACVR1B	72.620253	71.492537	59.48	61.883249	78.116822	71.508772	70.209581	79.785714	81.916667	75.411765	80.246057	71.5	-9.717912	0.0132433
ADAM10	72.826923	76.101563	68.857143	72.360269	78.390173	82.266436	86.255605	74.25788	76.996805	82.112821	82.479279	79.24735	-7.714319	0.0052639
ADAM20	64.285714	81.25	80	80	85.714286	90.909091	96.428571	100	97.384615	89.285714	88.636364	100	-17.1609	0.0014208
ADAM32	74.732919	73.415385	76.693252	72.939698	76.957265	76.945274	79.223118	72.5	78	81.176656	78.204545	80.071429	-3.439472	0.0400758
ADAM9	72.136364	60.648148	75.971014	69.055944	75.587379	69.607692	77.498584	80.815789	81.720472	79.758364	72.346939	75.33123	-7.130439	0.0427253
ADAMTS1	64.883549	65.355634	68.630662	68.531353	70.427397	73.857143	67.372457	65.941003	74.119898	74.985626	68.931034	74.974763	-4.475866	0.0470166
ADAMTS5	42.283019	48.219048	33.576642	46.428571	59.328571	60.22807	51.964602	45.513699	41.942731	48.591837	54.883929	50.885714	-9.040574	0.0443938
ADAMTS9	57.619893	53.601266	55.43	63.561194	64.646396	64.353093	63.893553	61.351515	61.594118	63.642715	60.646424	67.46817	-5.89641	0.0094974
ADARB2	73.425594	71.439042	74.348554	76.513054	76.216815	75.558516	74.869077	76.06795	76.628511	78.416977	74.363668	76.721406	-2.173804	0.045558
ADCK5	75.698254	72.074468	75.873684	76.626506	87.70318	80.835125	84.235955	78.88755	74.992157	79.619497	79.555215	76.823834	-5.263336	0.0361452
ADCY10	83.798206	72.966292	78.827027	73.599078	81.6	81.471223	81.715	82.804795	81.346457	81.675676	81.818913	81.619417	-4.458784	0.0265029
ADGRA3	71.299595	75.697417	67.253378	67.318033	77.430341	76.34891	76.072464	76.173077	77.389262	79.11674	71.743506	71.298413	-5.304483	0.0216527
ADGRG6	65.279817	60.60177	59.552448	65.479167	73.4375	67.761194	69.84739	65.007194	70.041096	71.829787	68.987854	72.026217	-7.138979	0.0019711
ADGRL3	72.708419	74.749284	73.119639	73.352584	76.51378	73.853409	75.056558	76.085624	74.126844	77.712456	74.496304	75.804359	-1.973685	0.0232155
ADH6	75.390244	75	53.333333	76.470588	80.208333	82.142857	71.717391	82.5	83.333333	79.878049	87.5	82.5	-11.17395	0.029211
ADIG	78.757143	77.941176	77.578947	78.617647	86.046512	81.564103	84.190476	85.641026	80.890909	82.236364	79.067797	82.362069	-4.526178	0.0044837
ADIPOR2	77.519774	82.758621	78.055556	75.157233	81.215385	82.758621	86.6759	87.291262	86.457143	83.659443	85.825871	81.364362	-6.033202	0.0044528
ADPRH	45.172414	34.90566	24.451613	33.116883	46.055556	59.196429	50.078652	41.463415	49.881579	42.306306	46.850394	57.138462	-14.70971	0.0069545
ADRM1	50.228856	55.769231	54.237288	46.575342	75.513514	52.941176	74.616438	50.5	71.4	65.006993	62.819672	57.507042	-12.08543	0.0400566
ADSS2	48.777108	50.649351	50	39.705882	60.759494	48.527473	52.406452	47.894737	67.613636	53.454545	57.994186	62.809524	-9.14942	0.0450104
AEBP2	68.093079	64.391144	72.580357	71.957895	75.421941	76.756	77.846753	74.478927	78.820847	86.442897	69.162476	72.534274	-7.177396	0.0328272
AFF2	65.363174	58.594086	62.221893	62.198131	69.761438	59.045997	74.584416	64.058552	73.776442	71.107492	67.663052	71.191932	-6.804344	0.0364784
AFF3	79.327566	77.634823	77.950431	78.35101	81.715522	79.936183	79.819226	81.739471	82.087686	80.475158	77.934051	80.77833	-2.243621	0.012503
AFTPH	59.06044	50.854701	45.528455	73.329412	84.87037	71.650485	69.823529	67.436975	63.521739	68.182353	70.75122	67.629921	-13.29007	0.028499
AGAP1	75.827468	74.730884	75.85003	75.333853	78.339357	77.856122	78.459493	77.024302	76.526376	80.175926	76.01131	78.753092	-2.457688	0.0061409
AGBL1	71.038697	70.296875	68.377176	72.813505	74.416431	73.397634	75.390244	73.399019	75.104693	75.157924	73.662577	75.721754	-3.899721	0.000551
AGFG1	60.762195	50.680272	63.127273	47.711111	67.066351	66.207865	71.436567	61.702128	67.139344	69.568548	71.891089	67.659639	-12.26373	0.0022935
AGMAT	56.20442	54.285714	37.7	57.04698	68.482759	44.380597	62.327957	70.482456	65.927419	59.758621	67.955446	65.872549	-11.8392	0.0478706
AGO4	62.022152	61.267606	62.827225	47.972376	92.529801	70.963351	71.228477	74.596859	60.651163	71.655022	64.175758	68.960656	-13.3228	0.0333629
AGPAT5	67.813084	57.307692	63.118812	60.60177	80.984252	67.892617	67.295359	71.783582	76.776316	75.5	66.475336	66.921053	-9.493225	0.0136344
AGPS	81.158501	77.743902	81.746032	77	83.160622	85.921053	85.637681	85.73822	86.684783	85.939024	81.345088	82.553314	-5.210364	0.0023356
AGRN	64.582347	53.398374	66.401003	55.620112	66.726984	69.003914	67.451651	66.734406	72.913118	65.994555	63.923469	59.57754	-6.540246	0.049256
AGXT2	73.230392	69.723214	72.193548	63.576087	74.691176	72.044118	72.779279	73.97479	76.638462	77.873563	70.850962	77.910256	-4.914515	0.0335999
AJAP1	65.57309	63.879787	67.809249	64.034483	70.156439	67.165131	68.626134	66.161959	70.496317	72.922688	66.104637	67.831947	-3.359004	0.0333028
AKAP6	71.845311	76.931915	76.390756	77.730679	80.402027	78.161479	76.982383	77.401089	79.513178	79.273427	76.286278	78.224471	-2.555876	0.048243
AKR1B15	76.56051	77.011494	74.055556	77.128205	79.111111	76.318182	81.688623	79.354839	76.5625	81.632	77.219653	79.834356	-2.776217	0.041332
AKT1S1	31.995434	27.314815	13.265306	22.232143	35.497382	25.265957	41.208333	31.052288	34.16	30.682171	38.089474	29.5	-9.480026	0.0299293
ALG10	25.380952	15.384615	22.222222	0	21.428571	35.294118	44.444444	28.571429	20	23.529412	40.909091	23.380952	-13.9478	0.0458755
ALKAL1	55.333333	48.829545	43.867925	39.875912	54.163462	58.401786	47.471503	58.8	51.590164	55.740506	53.295238	62.603376	-8.281575	0.0306385
ALKAL2	45.259259	35.714286	47.222222	40	47.815385	59.341463	56.714286	62.962963	51.229508	48.111111	51.857143	41.434783	-10.38439	0.0258945
ALPK2	79.197315	79.734967	80.116456	77.115282	82.368519	84.343985	81.998636	81.976035	85.730539	81.540284	81.44186	79.161215	-3.279129	0.0142368
AMIGO2	19.767442	16.346154	21.82	18.742857	37.212766	50.717949	33.942308	38.769231	33.510638	37.233333	36.788462	24.333333	-17.39439	0.0010367
AMMECR1	68.348416	80.115385	86.290323	82.178218	63.059701	74.196429	71.408696	63.398438	72.426471	71.638655	62.070234	76.798913	9.8583933	0.0296686
ANGPTL3	100	20	60	33.333333	100	100	85.714286	75	75	100	80	66.571429	-31.95238	0.0413505
ANKRD1	72.181818	75	82.466667	76.923077	84.615385	96.875	81.5	76.777778	79.166667	86.486486	82.704545	86.791667	-7.721801	0.0496545
ANKRD13I	65.444724	69.340541	79.445455	67.807487	71.846995	57.934783	57.117188	59.965368	55.026042	61.451128	55.343109	54.828829	11.320371	0.0097549
ANKRD17	82.6	72.43346	75.089965	77.694915	80.745928	76.92459	83.719409	80.060703	83.180851	82.845977	83.195122	80.597039	-4.454117	0.0383584
ANKRD20	100	95.142857		85.714286	50		20	5.8823529		78.875	80	50	46.159489	0.0390259
ANKRD37	72.413793	65.909091		85	39.777778	16.666667	72.222222	50	35.714286	51.783784	36.97561	66.666667	28.215085	0.0321352
ANKRD6	77.468439	72.006329	75.674009	80.388747	81.941935	82.296741	82.778313	79.797697	77.893617	84.003736	81.121593	78.15439	-4.614122	0.0178244
ANO2	71.748315	73.723251	72.087	72.038729	76.461826	75.038242	75.080576	75.77699	78.061633	78.850245	73.882653	76.921283	-3.859857	0.0015909
ANP32C	58.333333	60	68.75	41.666667	81.818182	100	100	70	63.636364	80	100	87.235294	-28.14873	0.0062691
AP3B1	89.064319	90.322034	90.453865	88.950249	93.980044	89.866005	93.208564	91.863208	91.096104	93.966102	90.860437	89.893617	-2.144143	0.0402508
AP4B1	72.214286	50	60	53.703704	91.853659	63.157895	70.940299	72.580645	78.571429	78.826923	67.088608	73.442623	-15.57826	0.0186135
AP5Z1	77.827957	77.412955	81.894198	79.280255	84.708464	84.075235	81.247312	86.896194	87.111111	78.634615	82.943627	80.704492	-4.18629	0.0318212
APBA2	77.372072	76.245662	75.02014	75.572104	80.39736	79.620833	78.0138	77.831017	82.879144	79.528532	78.336092	77.33642	-3.190405	0.008831
APC	91.710714	92.163265	92.289017	94.968254	87.969697	86.386076	92.386139	87.854271	91.22905	90.488688	91.280864	87.523121	3.3930744	0.0204575
APCDD1	54.43695	44.652968	49.950276	49.09901	60.735537	51.779167	57.067227	48.325688	59.814229	54.510204	54.639881	57.370879	-5.99555	0.0376902
API5	53.666667	51.681159	46.666667	56	78.75	56.616438	71.559055	61.217391	83.561644	73.342105	56.051471	62.064748	-15.89173	0.015783
APLF	86.597938	86.66087	88.382022	87.951807	93.289063	81.25	79.53252	77.350427	76.883562	78	81.881423	76.906883	6.7614247	0.0372371
APOBEC2	89.433333	83.333333	88.085714	88.857143	92.857143	96.774194	90.811321	87.631579	90.0625	89.815789	95	91.375	-4.36356	0.0344805
APOC1	47.047619	52.234043	36.111111	30.115385	76.434783	56.447761	64.72	62.514286	51.5625	61.964912	65.530303	49.835443	-19.74921	0.0050705
AQP11	68.125	58.928571	62.698413	65.384615	78.698413	78.131148	77.008621	68.277778	80.172414	80.803922	69.468085	76.581197	-12.35855	0.0011596
AR	60.783908	43.550633	45.699248	55.40708	65.300412	57.211454	59.966543	58.350515	56.350711	62.640909	58.234405	57.538961	-8.089021	0.0278148
ARHGAP2	67.482234	61.210983	67.756184	69.05137	70.287154	79.479532	76.685152	62.498701	78.554017	74.404348	73.366577	70.399031	-6.834121	0.0494971
ARHGAP2	67.295314	65.391172	64.389507	65.672788	70.607558	69.22467	68.72016	65.848921	70.461756	70.092091	70.673295	64.727429	-3.10729	0.0312031
ARHGAP2	71.764706	73.301724	67.876222	67.780059	73.369727	71.463768	75.951923	72.624324	78.299517	81.746324	74.146939	76.195499	-5.294075	0.0219446

ARHGAP3	78.354978	77.254682	78.853659	76.865471	81.04321	80.074919	82.392789	79.160584	80.534483	85.506143	83.074906	83.257944	-4.048425	0.0043324
ARHGAP3	76.497809	79.907855	76.809221	74.076923	79.522788	78.934109	77.762827	79.304654	81.122159	80.643554	78.863121	77.476149	-2.380718	0.0433676
ARHGAP4	69.266791	68.839527	66.342679	72.491639	69.796438	70.446936	73.983447	72.163636	74.39557	78.03724	71.05836	74.415922	-3.802034	0.0416466
ARHGEF1	76.737143	71.351351	70.82243	77.174216	83.831429	80.683706	79.52514	79.179144	78.565891	84.313684	78.465549	77.243772	-6.204754	0.0051672
ARHGEF3	76.254386	76.222222	79.816568	75.507692	70.013825	74.857843	75.133779	71.679245	72.550459	74.053004	74.436202	75.188272	3.4611386	0.014056
ARHGEF3	78.074766	82.55814	80.876712	81.359649	78.02	78.593548	79.574394	77.593939	78.525974	78.912863	78.067857	79.232558	2.152175	0.0137466
ARHGEF4	65.642782	65.557409	63.860347	63.68797	68.058962	65.643491	67.386992	68.818103	68.308252	71.129412	64.96122	66.649437	-2.932357	0.0195644
ARID3B	79.021448	87.611429	88.9799	82.080925	75.897436	81.893773	81.712042	80.189516	78.334677	79.601911	78.471292	77.732719	5.1942544	0.0202232
ARMC10	45.254902	57.446809	38.235294	59.259259	65.384615	60.671875	76.071429	62.903226	54.521739	65.06383	61.826087	65.634783	-13.96063	0.012348
ARPC1A	79.972308	72.743056	77.377451	80.952381	83.634783	83.143396	83.777439	86.322115	84.123223	81.516026	79.25	77.930952	-4.700943	0.0307957
ARSF	73.84	65.818182	70.868132	75.852564	82.674877	78.155689	79.69697	73.370192	74.666667	78.324607	74.296296	73.6	-5.253443	0.0428996
ARSJ	67.006711	66.015873	53.27907	53.717647	66.527273	66.64557	72.515873	73.461538	76.46729	66.23871	59.547368	65.748691	-8.389214	0.0490494
ASB1	77.341637	60.785714	73.152318	57.572222	79.557789	78.73399	72.666667	72.167442	87.569697	76.810924	70.39577	75.861963	-9.507557	0.0488941
ASB15	72.12069	72.680851	80.851064	72.44898	77.941176	74.630435	77.252336	84.042553	88	81.86087	82.044248	78.703125	-6.033947	0.0432001
ASB4	66.849624	68.442623	74.315068	63.769231	68.445652	77.690141	76.262295	70.616279	75.866667	72.643478	74.31677	78.121622	-5.901226	0.0284129
ASB7	89.062201	78.703704	94.186047	77.621622	82.282209	71.222222	79.415385	73.770492	75.057554	79.600897	81.031873	76.082969	7.5854432	0.0470473
ASGR1	38.605042	45.918919	38.66	34.271429	70.309859	61.688312	48.351351	60.144928	48.009259	48.477876	47.973214	44.541667	-14.32321	0.0161757
ASH2L	77.406091	79.901961	74.408696	76.460784	77.773585	85.14094	85.535885	82.779762	81.595238	80.54717	81.492126	82.318966	-5.103576	0.0063896
ASIC2	63.90757	57.874446	58.776119	64.141802	66.791274	62.963345	66.870795	64.774376	67.75737	70.02226	66.551601	68.948972	-5.660015	0.0052516
ASIC3	80.761364	94.53125	74.596774	54.22619	54.452055	55.10989	81.987342	57.76699	63.859649	52.282051	51.223529	44.956522	18.324141	0.0457068
ASTN2	68.122264	68.175359	67.394137	67.825798	71.43239	71.695129	70.809423	68.784884	71.655875	75.000821	70.695091	72.834769	-3.734158	0.0023953
ASXL3	59.951049	62.760234	59.358025	50.446237	71.741627	63.358824	64.037736	69.42439	70.591133	69.747634	64.813158	68.489489	-9.646613	0.0026913
ATF7IP	75.552083	74.166667	69.610811	73.700535	79.717489	79.178404	76.082857	77.166667	75.896714	91.672199	80.331507	79.989446	-6.746886	0.0323798
ATG2A	81.270694	79.480349	77.034483	81.774892	84.342756	81.936567	83.365432	83.264901	86.476974	81.596439	80.966495	81.977723	-3.100806	0.0237792
ATG4D	55.150838	60.277778	70.467532	58.045977	82.016667	76.950413	78.833333	66.787879	75.865169	68.5	66.192982	62.206704	-11.18361	0.0258949
ATL2	77.492991	60.676923	73.385965	60.792627	79.263158	79.897059	75.144495	72.238971	79.523364	75.507772	75.884444	70.337232	-7.887436	0.0432917
ATP13A4	79.23219	83.657658	77.712	77.832402	82.027304	78.852	85.304786	83.844765	83.042373	85.946328	83.60119	82.479612	-3.528732	0.0359713
ATP2A2	75.53626	66.733333	69.195652	77.777778	84.947368	87.149068	79.122807	83.247458	81.972477	75.09396	78.660617	75.528777	-8.404561	0.0140648
ATP2B2	72.471831	72.609929	71.824766	70.808486	75.525515	73.685255	74.850389	74.235858	77.53853	76.916475	73.649384	75.532028	-3.312926	0.0017565
ATP2B3	75.383547	74.672662	72.625	74.828467	77.450947	79.668293	77.59319	75.545611	77.007075	79.277264	79.991982	81.709625	-4.153079	0.0034488
ATP2B4	72.139168	73.960843	74.364964	71.885287	76.5138	79.450939	77.142674	72.532495	82.71167	77.732938	74.536554	74.985258	-3.863226	0.0431025
ATP5MC2	71.854167	63.888889	52.372549	68.852459	90.196078	74.230769	75.891089	78.225806	78.472727	72.186047	68.505263	82.447917	-13.27745	0.0138339
ATP5MGL	84.615385	34.615385		0	80	65	96.153846	86.363636	66.666667	74.833333	74.857143	77.733333	-37.95741	0.0310254
ATP6V0A1	79.217489	79.088235	76.137124	81.502092	80.848397	81.034602	83.224771	80.459283	82.249147	79.42711	81.697572	80.606593	-2.207199	0.0428317
ATP6V0A2	79.181009	86.011494	80.366864	87.213333	78.552632	75.410526	76.27957	82.62406	78.235043	73.244713	72.155779	78.370927	6.3340189	0.0154883
ATP6V1B1	54.131757	57.045802	51.730337	44.28481	69.475309	66.011905	55.616858	53.463918	67.358974	58.253394	60.229091	62.116041	-9.76751	0.0180924
ATP6V1C1	80.234568	71.71028	71	69.041237	86.294643	81.376923	78.219101	86.487179	85.16	87.315217	84.052632	78.617647	-10.4439	0.0018043
ATP6V1C2	78.256115	75.026042	74.441748	76.440529	83.619632	73.902041	83.025295	78.096552	82.9161	79.852159	80.294974	78.779337	-4.019653	0.0446158
ATP6V1E2	69.396825	62.575758	68.333333	68.674699	71.619565	84.126214	86.464567	76.429688	78.531915	80.666667	84.080292	74.988095	-12.36822	0.001422
ATP7B	72.618367	78.491749	75.547619	79.107639	78.816514	81.202279	79.054945	79.008357	77.770718	78.739659	81.320833	78.716667	-2.887403	0.0357328
ATRN	80.037225	76.836842	81.892761	76.19788	82.579268	82.098404	80.79052	81.781395	82.623583	82.52	80.348837	85.203678	-3.502034	0.0137228
ATXN2L	58.632035	41.221374	40.669492	61.968085	68.895238	60.792793	59.909524	60.461538	75.952381	59.754098	64.508475	59.21028	-13.06279	0.0225567
ATXN3L	100	50	60	75	83.333333	100	100	100	100	100	96.909091	100	-26.2803	0.0075715
ATXN7L1	86.833747	87.941482	87.040217	85.300469	86.923474	86.261364	85.249091	85.516717	85.003899	84.147769	85.373479	83.805412	1.4938285	0.0413632
AUTS2	74.146501	73.623504	73.125464	75.217409	76.836591	74.865358	79.266526	75.175143	78.155116	80.587815	77.129977	76.971198	-3.345246	0.0089887
AVEN	73.650915	71.013021	76.115282	80.555556	84.662896	82.372152	81.63964	75.143488	81.947826	79.155116	80.300135	81.702703	-5.531801	0.0189869
AVIL	87.948718	85.368421	87.272727	82.94186	88.543478	89.041096	89.453846	92.013889	90.013158	90.141509	89.077465	91.4	-4.077623	0.0018756
AVPR1B	67.087912	74	57.512195	65.277778	78	73.472222	82.125	69.833333	76.28169	76.220588	71.747126	75.82716	-9.468919	0.0101542
AXDND1	69.525591	69.585284	73.479401	72.849817	73.806268	79.582781	73.934426	76.071839	76.968571	82.002151	73.117133	74.026984	-4.828746	0.0215523
AXIN2	55.96473	50.954704	54.621094	47.984472	59.569697	68.086379	56.584862	58.838235	58.416058	60.671271	55.47046	55.129094	-6.714507	0.0203256
AZIN1	58.781395	53.553398	50.903704	35.691667	61.819876	47.968	65.513158	62.418182	59.920635	64.098901	54.771144	60.947644	-9.949652	0.0485508
B3GALT2	100	100	100	100	78.571429	87.5	87.5	75	81.25	92.555556	91.666667	91.6	14.294544	0.0018307
B3GAT2	47.305085	46.446078	49.174757	53.331579	58.44856	46.412017	55.478022	54.072115	57.214575	51.091873	54.460452	59.392045	-5.506833	0.0444398
B3GAT3	51.759615	40.384615	74.468085	38.215686	78.078947	56.10989	83.546667	74.882353	74.833333	75.852273	62.546875	54.140741	-18.79188	0.0383783
B3GNTL1	84.101695	80.799026	81.751816	80.344557	86.177451	84.887841	86.790415	86.190307	85.925628	87.139892	82.484932	83.381085	-3.622921	0.0052303
BACE1	67.59364	70.255172	69.856322	67.744318	81.015707	74.747253	75.255639	71.711957	67.514286	73.117647	77.78777	70.398204	-5.081195	0.045834
BATF3	41.348148	53.454545	42.310345	31.034884	58.978723	55.579545	73.425743	78.525	60.315217	52.643411	60.851485	55.126761	-19.89376	0.0054071
BCHE	72.902778	71.473684	69.298246	72.727273	78.125	71.428571	79.280899	74.107143	71.457627	76.229885	76.136752	78.032609	-3.999316	0.0348053
BCL11A	53.393001	54.661808	56.011811	52.727034	64.638581	62.312039	61.570988	66.015267	66.577428	63.436759	54.712166	54.032738	-7.463582	0.01404
BCL2	75.559252	67.457031	73.071161	70.460504	76.259781	76.984592	75.58707	75.493233	80.25661	75.934959	74.72898	76.116651	-4.783247	0.0080434
BCL2L11	48.442623	59.921348	52	44.895735	43.984615	42.192308	44.696379	35.634241	50.25431	45.689441	41.738342	45.037471	7.6615381	0.0299743
BCL7A	65.902439	69.644172	69.542208	70.408313	78.281513	70.722513	74.128931	78.990588	71.432018	74.656604	69.207048	73.730137	-5.019386	0.0246199
BDNF	52.21118	46.315789	48.163043	41.936709	61.119565	56.821053	65.476563	42.828283	56.4	59.561983	60.779762	51.42623	-9.644999	0.0313214
BEGAIN	71.166937	74.48169	68.514706	70.596977	71.707158	73.450346	81.156425	77.725373	77.96934	77.670082	77.07804	72.195971	-4.929014	0.0259919
BEND7	69.750378	66.928783	63.387863	62.666667	75.94	66.470726	71.401449	74.088832	73.346154	75.173451	68.356041	74.90068	-6.776244	0.0085636
BEST2	54.024691	56.489362	58.137931	38.930693	75.330508	59.113208	67.017241	61.186813	59.022989	62.511364	66.918367	50.845638	-10.8476	0.0449423
BEST3	80.994118	71.037736	74.232323	77.390244	84.857143	82.028169	77.536424	78.447619	82.411765	83.078014	83.184971	77.886364	-5.265203	0.026602
BHMG1	79.592689	78.559242	78.832599	78.021368	85.221498	84.672414	84.390374	78.673077	83.898374	85.461126	83.504065	77.658974	-4.183513	0.0233404
BIN3	80.023669	76.227273	77.19802	77.025926	88.389079	84.734417	82.528421	84.320423	80.741573	80.465686	75.953846	83.565217	-4.968611	0.0295846
BIRC6	84.001222	80.772093	80.355086	82.857471	87.157895	88.442997	85.289749	83.171516	85.814433	85.234519	83.966151	87.023952	-3.766183	0.0053248
BIRC8	83.571429	77.777778	55.555556	89.473684	94.64	95	93.75	90	91.304348	91.304348	91.666667	82.675676	-14.69802	0.0207246
BLCAP	54.459893	49.291667	61.588235	55.043796	63.232558	61.877698	66.510638	68.935897	72.151899	66.383495	58.37799	53.967105	-8.833763	0.028146
BLID		0		50	100		60	100			100	100	-67	0.0162145
BMP6	63.214654	66.063953	64.810204	62.943333	70.166667	64.092705	68.596095	67.421348	69.889217	67.998786	68.384086	67.019409	-3.688003	0.0069661
BMP7	59.382591	60.695271	59.482824	59.098305	65.243278	64.694407	64.479452	63.613333	71.661952	67.706064	61.51312	59.073128	-5.083344	0.0267181
BMP8A	55.338266	62.569307	57.96063	54.131707	62.070064	71.063636	66.471976	67.508475	64.711538	62.641379	59.732648	64.805556	-7.375681	0.0073299
BMPR1B	71.250914	73.325635	73.920716	70.550459	78.960239	74.320628	76.722051	73.106122	74.537102	73.072409	76.069951	74.345309	-2.879796	0.032383
BMX	69.807018	71.894737	58.666667	56.922078	68.101449	70.16	70.269663	75.47619	76.666667	85.711111	67.768595	74.575	-9.26846	0.0420364
BNC2	77.913271	73.111111	64.978495	75.925754	78.631415	76.402397	77.297148	79.114286	80.111441	77.386468	75.746308	78.920889	-4.969136	0.0360953
BNIP3L	66.262295	53.291667	47.767442	40.929825	86.931034	60.764706	64.242647	67.410256	73.920792	68.14433	56	63.386667	-15.53725	0.0275855
BOD1L1	66.102439	62.030928	68.958333	65.384615	76.315789	68.182692	71.015152	68.496063	74.409449	83.431953	79.625532	79.714286	-9.529786	0.010506
BOD1L2	67.804878	31.578947	55.222222	48.090909	85	64.583333	68.14	73.53125	59.652174	83.085106	63.277778	87.318182	-22.39924	0.0137362
BORCS5	76.766849	76.027864	79.334728	78.333333	82.638177	84.405714	80.87963	80.870968	80.306122	81.172277	79.7022	78.084279	-3.391727	0.0110654
BPIFB1	68.654867	63.908046	72.329897	67.075472	68.64539	69.563758	71.913514	73.065574	73.090395	78.05	76.112195	71.724444	-4.778588	0.0368937
BRAF	86.479239	84.136546	85.49848	80.507692	86.883886	90.227397	88.001776	86.935583	85.945679	86.748162	85.750716	86.123499	-2.921598	0.029586
BRCA1	93.75162	89.391111	95.652174	91.610577	91.263514	89.635514	91.278618	88.551495	88.119891	87.764706	88.762742	86.652672	3.5977266	0.0155122
BRD4	90.595573	88.481481	86.324503	87.857143	90.975758	91.749206	92.424893	91.124088	91.291066	91.019391	89.52027	90.513699	-2.762621	0.0037828

BRINP1	64.502276	64.853018	63.49005	70.30137	73.969512	67.462121	68.935262	66.141809	73.698876	74.906404	69.72679	70.775839	-4.915398	0.0300165
BRINP2	62.563158	61.683258	58.969543	54.502857	64.937716	61.596364	67.931818	62.866667	64.268966	63.95	59.812636	64.135747	-4.257785	0.0334493
BRIX1	24.769231	17.857143	53.333333	38.461538	65.384615	31.818182	38.276596	55.065217	63.3	83.724138	52.348837	59.884615	-22.61996	0.0441652
BRSK2	69.100503	69.402507	71.139665	70.222798	71.849607	73.435239	74.708333	75.372946	75.151047	76.502513	74.791567	72.159312	-4.279953	0.0006939
BRWD1	79.278571	90.254237	90.507177	82.244898	80.62215	80.472103	82.828508	82.977099	77.989501	83.228487	75.815466	78.303887	5.2915709	0.0489061
BTBD1	62.872428	61.476821	54.320988	61.606667	69.675978	61.810127	69.461905	58.21256	79.779874	71.875576	68.326733	76.390071	-9.372377	0.0345739
BTBD18	94.1	91.666667	87.5	88.235294	93.695652	94.594595	91.740741	98.84	95.702703	95.74	93.688889	93.714286	-4.339118	0.0156258
BTBD9	86.933205	87.343458	86.20623	84.986889	86.57441	88.652653	90.635101	89.354685	88.895184	87.846648	89.01612	86.562801	-2.074755	0.0258664
BTD	74.706767	71.969697	71.844444	70.222222	75.45122	70.703448	78.214876	78.628743	79.75	72.031963	79.883333	79.225	-4.55029	0.0418826
BTN3A1	72.77551	83.823529	73.785714	84.482759	87.5	97.777778	90.75	85.65625	83.72093	84.52381	77.941176	93.148148	-8.910383	0.0409467
BTRC	83.251748	81.396135	78.929078	84.978328	86.116034	84.403341	87.289575	85.979206	86.625	86.397163	84.190045	83.913939	-3.475466	0.0094198
C10orf67	66.219298	64.081545	67.316872	64.482759	66.688136	67.214844	68.708696	65.964401	71.59589	68.160671	66.465704	70.518591	-2.639498	0.0446561
C10orf90	72.272806	74.242701	72.232945	72.105735	74.084135	76.210733	75.572987	76.80343	77.397742	77.58498	76.170365	76.667966	-3.597996	0.0003016
C11orf16	84.447368	89.175439	90.909091	82.8125	85.229167	90.15873	90.686047	96.466667	92.592593	92.54386	92.948454	91.91	-4.73084	0.0458743
C11orf49	84.789133	83.217391	86.693089	82.99061	86.690685	87.98622	87.679712	84.866142	88.16341	87.452288	85.839876	85.812942	-2.388853	0.0176333
C11orf88	76.551724	39.130435	60.97561	52.05	86.363636	83.157895	65.55	68.181818	76.086957	85.089286	70.808824	67.714286	-18.19215	0.0238326
C11orf98	37.833333	45.454545	65.517241	95	43.75	24.285714	33.673469	48.4375	45.474576	44.421053	32.653061	38.822222	22.011581	0.0435627
C12orf4	88.211864	86.327586	95.833333	97.265306	85.573034	92.465753	83.63964	87.425532	77.666667	80.456897	83.742857	82.396825	7.738622	0.0249429
C14orf180	72.549223	72.576923	66.663265	63.228916	72.884354	72.833333	71.092784	75.132075	73.235849	81.760479	76.493506	73.364162	-5.844986	0.029182
C15orf61	19.065934	12.295082	11.57971	11.642857	29.433333	43.545455	31.213483	16.655172	38.162791	14.693182	22.346774	34.351648	-15.15433	0.0181418
C16orf95	65.226891	67.35	50.096154	61.574257	84.232877	82.718447	70.274809	72.959459	93.732143	67.546512	81.056338	71.089744	-16.88947	0.0093051
C17orf75	70.566265	47.619048	59.244444	44.827586	69.230769	78.098039	79.568627	74.418605	71.056604	63.311475	64.553191	63.323232	-14.88073	0.016434
C19orf53	38.758242	42.151163	48.9375	35.508197	58.765625	43	44.520833	55.064103	53.076923	55.759036	45.259259	48.402299	-9.142234	0.0295302
C19orf84	88.473684	56.666667	37.5	88.307692	91	78.26087	96.774194	100	97.619048	88.259259	87.2	83.695652	-22.61412	0.034588
C1GALT1	54.611607	46.875	43.147287	50.75	69.908397	63.79845	69.903409	58.153846	65.521739	65.317204	71.879464	59.152941	-16.60846	0.0002908
C1orf115	51.6	40.366197	40.666667	52.32	66.753425	55.896552	59.463636	60.441558	59.769231	62.205607	50.507042	70.029412	-14.39509	0.0035982
C1orf122	5.9090909	4.6875	4.3684211	1.0204082	8	11.47541	5.1428571	5.6986301	15.740741	11.111111	5.7323944	7.7386364	-4.833617	0.0371746
C1orf127	74.723039	75.820896	79.263636	78.096154	76.564815	75.776025	75.387244	75.405063	72.279863	72.488	71.260241	73.019108	2.9533863	0.0370446
C1orf21	74.101744	74.992228	77.720238	76.28877	76.716356	76.312343	78.824147	77.122244	78.150763	79.983655	79.78481	78.892449	-2.447601	0.020073
C1QL3	14.209945	7.4380165	8.3333333	14.516129	18.831169	18.373832	27.006369	24.631579	20.486239	18.338583	12.963542	23.409722	-9.380773	0.0046878
C1QTNF7	80	79.411765	68.75	88.235294	88.3	86.842105	87.676923	88.482759	90.909091	88.27027	87.307692	85.267857	-8.782822	0.0106437
C20orf194	84.580052	81.082742	82.26506	82.840807	87.197822	90.65566	85.315327	85.493014	85.709981	86.116923	82.662005	85.920306	-3.441714	0.0199357
C20orf203	79.356164	80.392157	82.176768	78.302083	75.357759	74.073733	80.41791	71.86	74.848958	78.455172	77.808176	75.022599	4.0762546	0.0221021
C21orf58	71.337748	70.187919	69.942197	66.895604	77.316794	79.33871	73.627451	77.635593	80.156098	79.682008	72.80427	69.618056	-6.681505	0.0088171
C21orf62	82.818966	68.446429	76.318841	78.325	82.658228	77.45098	85.705357	83.333333	86.814815	83.925926	88.3	77.647059	-6.752154	0.0399291
C2orf72	31.792857	18.610294	22.792453	26.371429	30.060606	33.70229	32.558659	25.114754	30.585366	39.198473	36.147059	39.453488	-8.460829	0.0219458
C5orf15	50.186047	53.571429	36.27451	36.65	54.925926	53.710526	65.453488	56.076923	56.382979	51.239437	57.686747	58.559524	-12.58395	0.0068558
C5orf49	42.495935	40.075472	44.049505	31.25	63.525424	65.692308	45.918699	45.361446	49.442623	54.357143	47.154412	46.234375	-12.74308	0.0200824
C5orf58	96.520833	85.483871	89.285714	87.5	96	92.105263	98.212766	95.555556	94.64	92.886364	97.136986	92.65625	-5.201543	0.024938
C5orf60	72.916667	66.666667	70.454545	79.545455	71.722222	81.25	91.107143	78.157895	87.818182	88.617647	74.392857	79.444444	-9.167965	0.0460396
C6orf120	4.5949367	1.9230769	2.6315789	0	6.5098039	6.6037736	6.939759	7.754386	5.0652174	11.03125	6.2417582	8.8	-5.080845	0.0012034
C6orf163	86.04878	91.333333	89.473684	90	85.921569	80.375	88.46	82.724138	85.555556	87.179487	86.246377	88.148148	3.6376652	0.0465351
C7orf26	70.190476	63.52459	71.004167	65.340782	73.239669	74.135135	77.785507	69.736059	68.386029	83.708633	73.385714	75.586957	-6.980459	0.0288541
C7orf61	89.912088	82.386364	84.8	85.714286	94.615385	90.757576	92.790123	88.72973	93.424242	94.257576	88.416667	85.845238	-5.401383	0.0194504
C8orf34	66.782346	65.741627	65.023419	72.076923	71.107261	69.56917	69.909808	72.306897	73.963532	75.238727	71.439806	73.751832	-4.7548	0.0096973
C8orf58	77.089888	88.866667	84.285714	64.478261	52.949367	44.318182	58.010309	51.841463	54.576087	61.477778	61.877551	63.616162	22.59677	0.0009148
C8orf76	63.182648	65.137615	60.853211	64.037037	69.354167	61.379032	71.497537	66.52027	71.751678	68.225434	77.18593	70.13617	-6.203649	0.0277139
C8orf89	74.952381	73.32	83.272727	87.931034	83.870968	85.9375	88.115385	93.243243	80.434783	90.625	85.471429	90.740741	-7.435845	0.0405265
C9orf57	82.884615	74.074074	66.25	89.028571	86.956522	89.03125	88.944444	85.896552	84.391304	97.081633	83.088889	96.341463	-10.90719	0.0288979
CA10	66.705117	69.228243	62.820827	67.648649	69.036685	73.191341	71.05618	69.406963	70.062726	73.72045	68.379577	74.132414	-4.522583	0.0120898
CA3	58.5	57.142857	61.606061	54.83871	68.769231	84	71.960784	67.147059	80.833333	78.702703	75	72.245283	-16.81039	0.0003552
CAB39	69.476099	67.664516	64.860399	67.248252	70.172603	71.748634	73.372414	72.924242	77.909091	76.738149	71.736568	73.84492	-6.243511	0.0017784
CACFD1	61.351955	61.08642	69.6967	54.8	72.754717	79.333333	75.30625	71.418367	79.855856	72.379845	69.955414	78.805369	-13.24231	0.0009518
CACNA1C	72.665899	72.167142	71.148468	72.339737	74.413311	73.013946	73.973735	72.203791	74.580767	75.553805	72.253443	74.842699	-1.774126	0.02453
CACNA1I	72.914304	70.236573	70.756258	70.441244	75.175856	74.117707	76.951969	73.860943	74.255481	75.935919	75.515636	71.907723	-3.628059	0.0022242
CACNA2D	69.079646	67.525355	64.534451	66.436364	70.908938	70.851504	72.044369	65.056478	74.861338	73.213615	72.638889	73.887783	-4.78891	0.0168109
CACNA2D	70.570026	70.495032	71.218857	70.917297	74.098082	71.444604	73.425734	71.426829	73.245693	73.436698	71.535226	74.608574	-2.102377	0.0095236
CACNA2D	68.447832	65.692213	66.887931	71.49238	74.095142	69.739388	73.169082	69.626106	74.085151	71.322275	69.532458	71.190542	-3.464929	0.0243661
CACNB3	57.403509	51.518987	58.54386	78.0125	85.568182	78.584416	67.306452	68.604651	82.373494	79.956044	77.684211	67.525424	-14.58065	0.0209634
CACNG3	72.285156	71.669145	69.776632	72	73.171582	77.720238	76.092628	71.533923	77.897516	76.931925	74.584104	75.102113	-3.94652	0.0085
CACNG8	50.067623	46.971429	46.54717	42.895954	59.485207	52.68306	53.365904	55.910714	58.208075	51.866822	49.375796	46.054795	-6.748253	0.0219291
CADM2	73.690998	71.412346	73.21116	71.439474	74.841078	74.761129	76.44715	73.285455	78.266549	76.200954	74.694827	75.321035	-3.038778	0.0054941
CAMTA1	73.270532	74.255556	71.611024	70.563895	74.085399	73.91336	75.930751	73.280292	75.494532	76.689447	72.82431	75.408195	-2.278034	0.0290005
CAMTA2	57.234323	49.78481	54.72973	44.878453	52.584906	58.840909	65.64539	62.357466	60.069892	55.650655	54.563492	57.802817	-6.782612	0.0389766
CAPNS1	52.453988	48.27451	54.485437	52.10101	57.537313	63.115789	60.431818	61.244898	53.729323	57.051282	53.775758	59.44586	-6.462769	0.0078183
CARD11	86.352197	84.399441	85.171242	84.91224	89.813575	86.891707	87.198263	86.847721	88.12	86.717492	85.024485	86.014833	-1.869729	0.0373897
CARMIL2	88.697329	95.386905	93.915789	93.990991	89.768559	90.426009	87.135037	87.839506	85.034965	83.761506	86.878689	90.062893	5.3843582	0.0067752
CASC4	83.50084	80.583333	83.790378	83.572519	83.095355	85.754054	85.795341	88.663522	89.184211	83.23029	84.154671	85.750369	-2.841709	0.0495651
CASP3	38.42446	51.136364	36.986301	38.884615	48.045977	49.479592	57.153153	51.470588	52.138614	47.495146	58.110236	48.130178	-10.145	0.0077406
CASP7	77.757143	72.928	73.544776	71.725	79.156977	84.161972	80.924	88.265432	83.736559	70.164179	80.806202	79.362007	-6.833436	0.0366171
CASP8AP2	81.235495	78.60241	79.993103	81.319372	82.946903	86.257143	86.59434	82.459716	85.016393	81.966667	82.081433	86.369942	-3.923972	0.0061256
CASQ1	74.452381	66.852941	73.583333	71.111111	83.111111	92.387097	84.3	88.358491	82.8125	83.521127	66.640625	75.213483	-10.54311	0.0314902
CATSPER2	81.259615	76.394366	88.597561	78.472222	88.465753	89.584416	90.796296	91.265823	91.094595	91.166667	83.14876	85.712121	-7.723363	0.008359
CATSPER(	57.998004	50.118519	53.182879	34.942953	54.381773	64.439093	59.391137	62.611111	68.138462	55.773672	56.768627	56.501931	-10.69014	0.0279764
CBLB	74.156342	70.141509	79.274611	79.347826	87.034043	81.26943	78.984655	82.907407	80.285141	79.637143	75.258893	81.522013	-5.132268	0.0483426
CBWD3	89.795918	84	94.736842	80	98.863636	89.705882	90.217391	96	94.416667	96.564103	94.545455	92.784314	-7.003991	0.0267564
CBY2	90.831683	91.435897	95.014925	97.297297	88.547945	90.808824	92.066038	87.542857	92.682927	90.554348	89.26087	90.318681	3.4221397	0.0299327
CC2D1B	68.855	69.697674	62.204724	60.37037	75.070513	83.482759	74.119318	79	62.706667	79.861635	67.68254	71.235849	-8.862968	0.0432166
CCDC102E	75.813285	75.588015	76.187291	67.85654	80.260388	78.240854	78.96395	75.012422	80.603352	78.751468	77.147745	80.254902	-4.793102	0.0159215
CCDC105	29.517007	31.609375	43.235849	37.5	48.047619	33.122642	44.095745	41.058824	49.743243	47.977941	44.534161	55.877005	-10.09159	0.0305783
CCDC121	12.472222	8.3333333	20.37037	9.5238095	23.448276	24.125	26.085714	36.363636	40	24.137931	20.882353	25.030303	-14.83422	0.0036886
CCDC124	75.607143	73.928571	81.818182	80.550388	86.481707	87.755906	79.685714	86.742424	85.388889	86.503226	77.671233	79.076577	-5.687139	0.0433645
CCDC126	68.264423	56.767677	50.268293	68.694656	64.90625	67.234848	69.223214	64.210191	86.836735	78.935065	72.707113	72.828947	-11.11153	0.0489501
CCDC157	67.42053	58.657459	75.903226	56.408163	79.405556	74.764706	69.595679	65.811159	75.483516	71.533865	73.148936	72.703571	-8.208529	0.0478572
CCDC171	81.99349	79.671806	76.867347	81.026786	81.777236	83.529897	80.146958	80.365169	84.864992	83.653034	84.509784	83.01506	-2.842909	0.0372234
CCDC175	71.601093	66.136364	70.22449	64.878788	73.716312	69.366667	75.91716	77.412281	82.678832	72.606383	76.204762	72.958904	-6.897479	0.0134049
CCDC180	78.985075	82.509009	84.264706	84.417778	85.583643	84.003546	85.675516	88.463668	87.196226	85.791304	82.192771	87.089862	-3.205425	0.0350186

CCDC181	66.913793	70	60.121951	60.15625	82.904762	76.651163	74.259259	65.959184	82.956522	72.222222	78.923077	66.893617	-10.79823	0.016237
CCDC192	78.667235	76.866412	74.835714	81.157895	78.002732	82.260997	80.832813	79.623342	83.1875	80.11245	83.346093	80.3	-3.076427	0.0406554
CCDC27	75.974265	76.923077	80.016393	80.283871	82.356481	79.35	85.209622	80.37	83.854271	79.360656	80.551724	83.570946	-3.528561	0.0263864
CCDC3	70.509868	60.57485	78.687117	70.717325	83.761682	76.536111	77.467795	75.350299	79.307692	75.913559	73.168571	74.568835	-6.887042	0.0449386
CCDC30	83.59396	81.52381	82.186275	83.961905	83.948357	83.075145	86.70607	83.965174	84.882927	86.753731	84.513846	85.199454	-2.064101	0.0238022
CCDC33	66.03466	68.384434	63.548009	67.283208	70.235521	68.904762	66.963483	66.089463	68.816754	72.25641	69.862245	69.391473	-2.752436	0.0452086
CCDC40	76.48227	73.52	76.315582	70.055147	79.63104	77.944715	78.820043	78.929947	83.545185	81.042131	78.807306	80.03937	-5.751718	0.0017156
CCDC58	78.846154	88.461538	97.916667	79.72973	74.324324	74.468085	70.491803	59.028571	68.604651	77.043478	74.404762	72.136364	14.925767	0.0048781
CCDC60	68.466258	69.057416	72.977427	73.069544	74.655052	74.944898	74.127946	72.447464	80.147595	76.166667	73.681633	73.620462	-4.081303	0.0192561
CCDC85B	7.4074074	2.0833333	28.181818	5.2631579	2.2727273	4.0540541	1.7857143	0	0	1.984127	0.2688172	0	9.4382492	0.041681
CCDC88A	84.555911	75.967532	83.928287	72.707602	87.349558	84.102439	91.002801	84.972477	84.878788	81.521246	86.450644	85.711268	-6.45882	0.0235504
CCDC88B	80.332226	67.118644	65.206349	72.515625	83	78.199052	78.622137	80.978378	84.505208	73.698413	74.321839	78.771536	-7.718859	0.0274247
CCDC97	68.225131	55.688679	59.503937	62.550388	65.5	63.798561	68.046729	63.183673	65.014286	66.514124	70.529954	69.696335	-5.043424	0.048485
CCL23	69.333333	89.285714	80.769231	80	63.4	66.833333	66.736842	80.333333	64.666667	63.227273	73.346154	76.615385	10.452196	0.0361223
CCNA2	7.4074074	10	14.705882	0	17.391304	4.7169811	13.677966	20.419355	17.1875	13.76087	21.031746	24.90566	-8.6081	0.0446634
CCNE2	43.968085	21.65	27.542373	32.258065	61.590909	43.240741	41.485981	62.021277	51.047619	38.470588	40.554348	57.202381	-18.0971	0.0122364
CCNL1	4.575	8.5106383	8.974359	8.7837838	15.625	16.4	20.090909	4	14.74359	17.307692	15.504348	9.2408759	-6.403107	0.0394296
CCT2	53.506494	40.32	34.119048	48.275862	63.768116	62.833333	54.514019	49.647887	49.6	52.615385	59.712871	61.060345	-12.66364	0.0120703
CD14	14.5875	0	2.7777778	9.2105263	14.191781	12.544304	17.575	19.859649	20.518519	6.2837838	15.975309	12.92	-8.339592	0.0271521
CD19	69.805556	68.554348	80.810127	67.715909	86.285714	84.593407	79.298077	84.159574	85.276596	71.247525	76.024793	73.225564	-8.292421	0.0468321
CD1E	53.125	23.076923	23.583333	8.3333333	64.777778	36.363636	52.235294	69.230769	77.272727	44.578947	48.111111	51.894737	-28.52848	0.0127663
CD247	54.042724	61.342105	63.016393	60.771635	64.736308	66.221277	61.560455	62.589852	67.213983	67.858553	60.611842	66.038363	-4.810615	0.0310561
CD302	50.295455	39.777778	63.018182	41.666667	62	62.934211	63.192308	58.888889	75.222222	57.773196	65.579618	62.223684	-14.78725	0.0080664
CD3EAP	45	36.96875	52.419355	50	51.977273	50.439394	54.684211	60.28125	55.315789	63.225806	62.423077	60.083333	-11.20674	0.007752
CD40LG	42.410714	42.857143	50	63.73913	69.230769	67.708333	69.230769	64.705882	57.894737	90.909091	66.756757	80.115385	-21.06722	0.0067517
CD55	46.411215	50	24.576271	28.571429	47.803279	54.761905	57.043478	44.366197	44.852941	58.333333	56.052632	42.363636	-13.30745	0.0334816
CD6	66.428571	61.934694	69.501992	64.012397	70.059441	72.930029	68.513514	66.323129	71.237785	72.974359	71.860759	69.112167	-4.906984	0.012525
CDC14A	71.941026	64.584416	71.169355	62.965217	78.583051	75.705426	76.125285	71.967742	76.275591	73.006024	77.038384	72.615079	-7.499569	0.0032105
CDC42EP2	47.742857	40.449438	44.230769	17.54386	82.724138	57.035714	61.39	59.090909	45.592593	64.225806	66.213333	49.2	-23.19233	0.0106504
CDC42SE2	68.407692	63.392086	66.062295	61.504732	75.344737	72.261111	67.875217	69.292398	67.303279	71.472393	69.345369	69.867834	-5.503591	0.0082863
CDCA7L	74.943396	80.315789	90.920792	83.166667	76.560284	65.382353	72.181452	80.019355	70.699029	72.207101	69.767241	64.922727	10.869218	0.010254
CDH13	71.818565	72.783251	70.703971	71.899369	73.512074	73.359475	74.541793	72.348172	75.487729	76.965431	73.229245	76.475308	-2.688615	0.0137273
CDH20	63.724307	61.333333	63.15427	63.961415	63.825397	66.727273	67.634361	63.606138	71.655329	73.298429	67.326118	65.219274	-4.368209	0.038395
CDH23	74.755026	72.793814	74.399895	72.642446	76.06629	74.961553	75.709651	75.913923	76.486926	75.993732	74.323749	75.22542	-1.93736	0.0035564
CDH4	75.613428	75.675723	75.32678	74.576886	78.105483	77.744538	77.302788	74.923213	78.686367	79.069342	75.575928	76.990307	-2.001541	0.0249218
CDH6	65.557692	58.124481	56.550725	61.08427	63.978395	65.804511	69.903803	58.877133	68.760606	69.865823	67.949318	70.82268	-6.665992	0.0211474
CDK13	73.74435	66.420213	72.882979	63.141667	80.176087	79.778338	78.475036	77.875862	81.840855	77.805357	79.384279	74.047619	-9.625627	0.0009402
CDK17	62.735	64.820277	70.056034	56.25	75.355872	69.541958	69.382775	78.868132	70.527397	64.152632	71.959831	70.483271	-7.818656	0.0240771
CDK19	79.487124	79.027842	73.245977	77.526214	82.80609	83.77069	87.203215	79.516176	86.641667	83.646643	84.533471	83.051774	-6.574426	0.0017329
CDK2	45.717949	3.5714286	7.6923077	10	63.636364	27.761905	43.902439	64.285714	22.972973	32.432432	32.692308	36.211538	-23.74154	0.0450345
CDK6	60.154351	59.465798	53.514451	52.675516	60.007958	57.20438	64.077944	65.036458	62.7275	63.539363	63.879834	58.582563	-5.429471	0.0205886
CDK7	80.097046	66.808511	71.495652	70.869565	83.528926	80.94898	79.410959	74.305556	85.356522	76.763819	82.502008	84.773913	-8.631142	0.0104124
CDKL4	90.518519	87.179487	91.844444	85.685714	81.580645	88.092437	83.074766	82.752137	84.664122	82.340102	87.827004	82.309623	4.7269365	0.0154804
CDKN3	53	61.702128	38.970588	35.849057	53.626374	54.850746	76.73	65.253521	58.555556	62.247059	57.697842	61.951049	-13.98358	0.0300093
CDON	64.479167	64.839844	62.4375	61.819495	72.294737	66.730375	72.916667	67.510526	71.8675	81.420398	73.510239	74.946181	-9.255577	0.0030663
CDRT15	77.894737	75	100	50	97.727273	100	100	80.952381	96.875	88.333333	91.625	89.833333	-17.44461	0.046309
CDX2	14.656904	9.6967213	15.183333	13.156069	15.469388	17.711268	15.522293	19.551136	23.5	18.642512	20.905213	16.470833	-5.298323	0.0094629
CEACAM1	67.180556	57.72093	67.5	67.673469	75.32	79.918367	71.731343	73.469388	70.714286	77.6	68.910256	73.755319	-8.908631	0.0048225
CEACAM4	49	30	36.842105	44.444444	58.823529	43.424242	65.574468	58.580645	51.612903	64.434783	47.019608	59.212766	-16.01373	0.0090585
CEBPE	73.7	56.894737	58.103448	79.92	91.933333	88.5	86.027778	80.875	82.083333	87.357143	83.574468	69.210526	-16.54065	0.0098816
CEBPZ	57.580357	56.716418	55.487805	59.42029	63.025641	62.337662	66.091667	52.238806	61.904762	65.909091	67.267327	66.033613	-5.799854	0.0449829
CECR2	77.422111	80.540717	78.364764	80.25	82.122056	82.06968	79.903785	78.4	83.388889	84.420875	82.017143	83.055224	-2.777809	0.0315543
CELF2	71.531118	72.111619	73.195025	67.210019	73.460205	73.734968	74.957114	75.597156	72.153053	73.400239	75.397388	75.341075	-3.243204	0.0137453
CELF4	60.006879	58.464185	56.655572	60.102621	62.219904	64.429345	63.406619	59.495506	66.351133	62.369204	64.160219	61.973991	-4.243426	0.004816
CELSR1	75.998331	75.561653	75.550687	75.770096	77.836725	77.95952	77.545241	76.976626	79.689009	80.541303	75.465981	77.803577	-2.257056	0.0184188
CEMP1	95	88.461538	95.142857	87.5	100	100	96.428571	96.909091	100	94.571429	92.857143	98.583333	-5.892597	0.0131344
CENPL	92.108108	86.206897	85	94.594595	80.115385	88.235294	83.517241	79.090909	79.347826	84.782609	79.368421	85.25641	7.0131379	0.0137919
CENPN	77.158273	60.273973	65.263158	66.875	44	53.038835	65.139394	52.44375	51.688525	46.971264	63.89604	54.164659	13.474793	0.0128983
CENPP	89.850649	91.120219	92.438333	89.607207	91.318878	89.981279	88.820746	88.092888	88.473752	87.803882	87.419629	88.395596	1.9657709	0.0315365
CEP104	81.432432	78.607595	75.219858	80.095238	85.678756	84.618557	84.651376	83.013966	89.794344	84.96789	83.891892	79.513866	-5.67755	0.0079105
CEP41	66.844086	76.98913	73	69.888889	81.818966	83.352941	72.396648	78.630252	76.064	75.080247	75.767241	83.241706	-6.613474	0.0275469
CEP63	69.826613	66.742188	64.767296	59.216418	67.611111	68.467391	69.432099	72.920904	72.267677	72.792929	72.829787	73.027972	-6.030605	0.0098075
CEP85	73.320475	66.226087	69.342105	66.41791	83.753304	72.816514	75.321212	86.686391	82.232323	73.474104	76.527473	78.364641	-9.820351	0.0059713
CEP89	89.728571	89.762082	89.04321	91.235294	89.666667	88.952381	89.15283	87.192635	87.12381	89.096774	88.306319	86.90583	1.6426338	0.0271792
CERS4	77.972085	75.553055	75.781333	76.221945	84.833333	78.911602	80.451197	78.754386	85.846348	79.931689	80.723549	80.066553	-4.807728	0.00676
CERT1	66.01061	59.432692	76.581522	72.207447	76.946939	75.319444	80.492611	72.390135	73.010676	78.008746	75.174393	75.480278	-7.294835	0.0281575
CES4A	62.759657	62.057971	57.509615	53.450382	71.104046	70.127517	63.313305	57.863095	63.15528	73.256545	64.368201	67.671698	-7.413055	0.0325222
CFAP221	62.560606	62.004329	58.92233	67.392157	64.75	64.479167	72.415617	68.808271	72.222615	70.275148	69.603865	73.305239	-6.762635	0.0088415
CFAP300	71.710526	68.842105	63.416667	64.575	84.505882	78.969231	71	69.853933	78.15534	77.390625	68.26087	72.76	-7.97591	0.0283687
CFAP44	88.655063	90.28	91.479769	91.895349	84.204167	89.824034	88.218069	85.527094	85.805195	89.431677	90.441038	88.047244	2.8902306	0.0446035
CFAP57	75.904082	72.787546	76.045455	73.843137	77.515571	77.964158	76.796296	76.415771	79.414414	78.937337	78.47318	76.463895	-3.102523	0.0029119
CFAP58	73.611111	69.664596	75.145349	79.259259	82.680628	80.22069	79.467105	77.741463	79.953488	80.55	74.040431	76.144068	-4.429655	0.0451525
CFAP70	80.099125	83.811475	83.783784	82.251613	70.221154	78.495	78.691489	78.640187	78.144444	80.621622	80.477778	78.563025	4.504662	0.0296002
CFAP74	78.216812	77.383226	74.771234	78.275862	81.29337	77.442251	80.682101	79.591595	80.746269	78.881072	79.990685	77.331173	-2.333031	0.0332925
CFHR1	76.923077	0	50	0	84.615385	60	72.965517	85	100	87.5	77	96.153846	-51.17357	0.005277
CFHR4	54.983051	69.764706	63.578947	31.16129	58.282609	72.222222	71.207547	83.089286	73.071429	71.416667	68.59322	65.623529	-15.56631	0.0431509
CFLAR	60.525164	48.416667	54.88764	54.713147	53.666667	61.30888	63.131707	65.301325	60.52809	66.169492	63.256724	55.599548	-6.484649	0.044035
CGNL1	75.984127	74.887356	72.296748	71.605856	74.471761	77.774368	78.852386	76.319149	75.514423	78.745232	75.379459	76.614615	-3.015402	0.01922
CHADL	66.652174	72.022989	77.183673	70.445378	51.07947	59.481132	63.005	48.514706	68.780347	62.254144	67.664921	66.771144	10.632195	0.0280525
CHCHD2	54.836364	60.869565	50.446429	44.827586	56.578947	37.878788	45.808824	34.090909	30.769231	42.727273	39.3	37.275362	12.191319	0.0263076
CHIC2	61.472727	70.378788	66.666667	68.065421	75.788991	72.66	73.590164	79.019048	69.46087	79.071429	73.848168	64.917431	-6.898612	0.0305194
CHKB	20.546875	100	58.823529	53.846154	37.5	26.870968	50.258065	22.972973	36.385965	21.24	25.857143	27.253012	27.261874	0.0465116
CHL1	58.117769	56.247826	55.14527	55.125392	64.4	60.225455	66.203557	59.534743	63.004819	67.109015	61.734545	60.092357	-6.628997	0.0016525
CHN2	74.43338	75.416446	79.701803	77.057971	82.186047	76.423326	79.192771	80.10011	81.03617	80.830172	78.179036	78.819018	-2.943431	0.0358061
CHP1	89.01506	93.70229	88.553922	82.679612	84.185328	84.796537	84.626374	84.259109	83.77027	81.343949	85.437799	84.932401	4.31875	0.0253558
CHRDL2	61.44	66.367816	51.947712	63.987261	69.786408	68.727273	66.207273	65.032258	64.562189	67.517731	66.264706	69.879479	-6.311467	0.023729
CHRM5	64.199105	60.470588	70.54878	72.977011	82.21791	78.522388	78.288939	70.309524	77.303681	73.914787	78.408537	74.773694	-9.668561	0.0047222

CHRNA1	73.9	73.214286	72.486486	58.163265	80.649123	78.030303	84.416667	82.322581	82.978723	75.770115	83.902913	81.584071	-11.7658	0.0025864
CHRNA7	69.444664	63.074219	64.788235	69.723077	75.06962	73.356364	71.418868	70.877076	73.426866	77.279018	71.028249	71.134752	-6.191303	0.0034745
CHST12	75.81875	81.661442	75.347188	75.149051	83.513953	81.712291	83.479789	80.98533	88.006961	84.228625	76.361404	77.695853	-5.003918	0.0442711
CHSY1	64.92599	61.84345	58.911854	59.313099	62.170732	66.160237	69.806216	75.823529	65.618321	70.097252	66.57508	64.429038	-6.336452	0.0228522
CHSY3	57.712185	56.647059	61.877133	55.063291	63.61794	60.564103	58.879079	61.062937	59.813869	61.424307	61.8223	64.518657	-3.637982	0.0239462
CIDEA	63.181538	53.157895	62	66.413043	64.867521	70.801105	67.666667	68.885845	68.683036	64.851986	69.041009	62.85	-6.017777	0.0286085
CIR1	78.481752	72.253731	77.076923	75	81.5	77.11215	81.053691	76.517857	79.731183	85.166667	85.548193	82.134615	-5.392443	0.0185323
CIRBP	52.745562	48.034884	48.021505	38.551402	56.419355	60.327586	70.736842	50.363636	65.809524	76.426471	51.087838	61.346774	-14.72641	0.0161235
CLDN12	64.166667	76.923077	66.631579	73.913043	54.411765	51.941176	55.319149	77.777778	54.285714	57.608696	59.929825	62.125	11.233704	0.0366994
CLDN24	66.666667		25			78.571429	100		100	66.666667	83.285714	100	-42.25397	0.0261405
CLDN4	93.486486	90.666667	100	90	90	82.677419	86.352941	76.833333	85.351351	84.64	91.2	78.162791	9.1360588	0.0128923
CLEC2L	63.967742	58.451389	55.533333	52.346821	75.680851	58.175758	67.754491	68.036232	66.495146	71.061224	75.314815	62.606426	-10.5658	0.0125288
CLPB	87.205517	80.959128	83.162393	84.552699	90.16946	88.165339	86.822558	86.1959	90.091089	85.206452	84.748724	86.985	-3.328131	0.0350313
CLUH	79.791489	74.468514	75.34891	71.873596	78.320611	82.046784	80.411862	82.942387	83.966102	79.234317	78.084211	80.379365	-5.302578	0.0067914
CLYBL	83.554481	82.964103	81.013699	78.034401	85.182517	85.705202	84.477082	84.978599	85.450889	85.039773	83.203162	81.806627	-3.08881	0.0166065
CNIH4	64.189189	59.341463	49.206897	57.274194	60.707071	67.068966	76.68595	73.252747	86.44086	70.669492	63.856164	73.541353	-14.02489	0.012576
CNNM1	54.946381	52.314815	52.419512	51.773234	58.806122	61.481633	58.187668	60.524164	56.892473	63.406915	62.869464	63.304878	-7.820679	0.0001934
CNOT10	93.335079	95.926829	94.040179	93	95.107011	91.215385	92.206667	92.168459	92.107527	88.857482	92.237885	89.719565	2.373024	0.0489475
CNOT6	75.467433	67.089021	65.719403	62.534799	75.345411	75.214286	81.596929	72.388298	74.355556	76.308411	82.160656	77.827645	-9.196985	0.0048729
CNOT6L	70.213559	53.807453	60.795775	59.868421	65.383784	71.479245	76.284768	64.125604	76.009346	74.319672	74.170799	75.133903	-10.94209	0.0083941
CNPY2	53.333333	74.5	87.5	82.352941	63.194805	70.590909	66.428571	54.880597	53.947368	50.632911	56.420455	67	14.034616	0.0496052
CNR1	45.512821	40.179245	52.830508	42.325581	50.197531	61.704918	63.477612	49.822917	51.084112	57.8125	49.067485	52.715152	-9.273239	0.0232178
CNTN2	71.544757	70.059701	67.251101	70.97619	72.297578	71.775439	74.133005	72.881148	78.271127	74.117825	74.069333	74.367206	-4.031145	0.007253
CNTN4	74.059844	70.972826	72.840591	74.433764	75.760743	75.862601	76.854902	73.541384	76.427467	77.90868	74.213392	77.987147	-2.992783	0.01151
CNTN6	75.929276	76.820122	73.505435	78.374286	79.283019	78.806723	79.196672	75.892308	79.415493	81.591935	79.416867	81.005413	-3.168774	0.0166442
CNTNAP2	77.2008	75.171918	73.412958	75.927246	77.441673	77.924985	76.021051	77.062203	78.300807	79.141504	76.237577	77.439906	-2.017983	0.0226433
CNTROB	70.473988	59.302326	70.209091	64.666667	77.848485	70.833333	75.384181	69.170543	74.692308	74.631902	76.286432	77.034653	-8.322212	0.005399
COBL	75.34537	75.042806	72.637002	74.885817	77.355844	75.070557	77.267414	76.440114	74.876799	77.137509	74.906433	77.609977	-1.855332	0.0309804
COCH	33.576087	19.666667	22.115385	19.915254	29.943396	47.1	38.330769	19.567901	45.714286	45.283019	40.581197	39.895833	-14.4837	0.0205124
COG2	75.227848	89.285714	80.551282	87.371429	78.24026	76.241135	77.557895	67.737589	72.962963	76.396648	69.17757	71.130612	9.4284843	0.0101527
COG3	77.397727	61.266187	68.843284	68.617188	72.91875	85.082873	73.518395	72.355263	80.797297	75.383929	78.609836	78.252788	-8.083795	0.028695
COG4	82.536	91.091954	89.049587	86.480315	85.587444	82.253456	84.538874	80.395652	85.247012	84.32493	84.07513	84.730198	3.395377	0.0497633
COL12A1	42.411043	46.808511	45.033708	48.14433	58.620553	44.877395	60.228814	61.265385	53.45283	52.384106	54.67867	50.041363	-8.844242	0.0133853
COL13A1	65.825	68.076923	67.460028	67.832134	70.507338	69.867179	69.783358	65.980154	71.069988	75.095652	69.348315	71.105882	-3.046212	0.0453671
COL14A1	74.755639	71.270548	67.228013	67.152174	78.134454	75.58104	74.278049	73.203438	75.424552	75.009259	72.80543	70.908676	-4.316519	0.0260271
COL15A1	72.708738	74.926761	67.038298	74.024814	74.924866	76.528421	72.754213	78.178082	76.927835	75.407108	76.275689	73.873897	-3.434111	0.0435481
COL1A1	54.019417	41.354839	43.413043	42.598485	54.37234	44.881081	55.496269	56.193182	58.948454	51.06367	51.860248	50.116279	-7.519994	0.0297838
COL20A1	70.2	73.194118	69.951743	70.7925	77.72209	75.679752	72.876325	73.779951	77.469248	74.565766	69.868512	76.101227	-3.723269	0.0255652
COL26A1	72.993414	72.921925	68.823966	70.555449	74.954098	76.252245	75.670051	73.333919	75.596935	79.354366	74.814417	74.222943	-4.201183	0.0042361
COL3A1	65.411765	68.75	66.666667	72.222222	81.25	89.130435	70.864865	75.961538	87.037037	75.727273	68.224138	79.087719	-10.14771	0.0253539
COL4A4	69.878489	66.804094	67.026756	68.876133	68.655172	72.463592	75.118098	73.903955	67.732426	76.67619	72.533052	73.076149	-4.373462	0.0228559
COL6A1	79.208211	73.220339	77.669421	77.395833	84.968037	79.901288	81.792295	77.98301	82.258252	83.721414	79.843072	80.747826	-4.528448	0.0105207
COL6A2	78.275261	64.316406	70.815427	71.843558	85.709052	75.209809	81.212654	79.992248	79.73545	77.861607	70.843254	78.084746	-7.268439	0.0331344
COLCA1	23.056738	15.432099	18.126582	21.610526	20.943662	24.586957	25.552381	21.038462	26.830508	25.575472	26.153226	26.480315	-5.088637	0.0123018
COLCA2	29.690058	22.727273	27.815534	24.418182	29.168675	32.4375	37.517241	31.258929	32.741176	33.05303	26.629139	33.267516	-5.846389	0.0133612
COMP	28.677043	17.391304	19.515021	27.730089	32.363636	29.247664	29.844291	31.538462	26.527638	23.99308	31.795455	25.953039	-5.579544	0.0484797
COPS2	58.333333	50	51.736842	50.089552	68.181818	68.25	57.136842	90	70.456522	53.676471	59.081633	62.452632	-13.61456	0.0450582
COPS9	59.412698	56.182927	49.975904	50	61.882353	65.741935	67.811881	81.584615	75.922078	56.383838	60.780702	55.333333	-11.78721	0.0393848
COQ10B	69.094937	66.627451	63.880952	48.278481	83.009174	74.704	69.300699	80.479167	64.414414	76.891473	73.466667	67.852071	-11.79425	0.0263234
COQ6	71.720721	51.587302	58.58209	56.4	68.206522	68.931818	75.533981	81.25	67.22973	68.373494	64.5	67.162791	-10.57601	0.0253143
COX15	82.019608	58	72.65625	67.241379	84.650794	80.915663	76.04902	86.211538	88.808511	80.816327	85.788321	80.569231	-12.99687	0.008417
COX7B2	78.26087	78.204082	74.531532	80.526786	81.581967	81.790179	81.656863	79.424084	82.686833	82.967456	79.654867	81.876356	-3.574008	0.0071158
CPLX4	53.856115	42.043478	41.123457	43.685714	75.261538	66.506173	53.9375	68.057971	57.815789	71.311828	58.854305	64.72	-19.38095	0.0009617
CPNE4	70.323144	66.362799	67.389247	63.72327	69.066558	68.49631	73.027668	66.484502	75.159021	75.631699	70.976787	71.721596	-4.370903	0.0433377
CPPED1	86.488095	83.63728	81.831409	86.320713	86.560676	86.518072	88.297268	86.183121	88.310345	87.335868	87.263542	85.663655	-2.447194	0.0215288
CPQ	77.003727	75.94186	75.860902	75.135135	84.5	77.344488	79.564732	80.848548	82.806273	79.819732	80.675569	84.955823	-5.32899	0.0028313
CPSF4	76.820069	65.189873	72.269231	78.115942	80.277027	83.158974	72.755556	81.580645	80.440994	82.313187	77.137681	85.012605	-7.235805	0.0261284
CPXCR1	55.555556		0	33.333333	55.555556	66.625	76.470588	83.333333	91.666667	66.666667	44.736842	80	-41.0022	0.0107899
CPXM1	63.022599	73.846154	71.25	57.943182	57.174603	50.830986	58.443478	53.231707	49.691358	56.441441	55.232558	60.459259	11.32731	0.0045649
CPXM2	66.714467	67.716792	69.052392	67.902486	70.39084	69.753176	71.272944	68.25098	73.639073	72.795362	69.207933	72.43763	-3.121958	0.0120601
CPZ	67.933198	63.392857	62.472325	57.883495	69.803191	67.522346	67.732759	65.277439	69.782258	64.579946	67.482609	67.39165	-4.526056	0.0223216
CR1	65.935714	66.947977	64.115741	54.66	78.179487	65.772152	75.239344	73.641176	70.963351	69.261649	80.771331	75.887879	-10.79969	0.0062907
CREB5	69.315356	73.090258	70.170439	72.68062	73.311732	74.70375	75.18705	73.536905	75.308442	79.865979	75.446174	77.593295	-4.304998	0.0069152
CRNN	78.384615	78.947368	75.615385	77.357143	88.3	80.727273	82.594595	87.25	76.55	85.566667	82.588235	79.176471	-5.268027	0.0327538
CSF3	79.733333	80.769231	78.409091	88.266667	48.705882	62.037037	79.081081	68.172414	64.708333	83.75	65.617647	68.333333	14.243864	0.0304175
CSGALNA	57.314286	59.123288	72.635135	54.87931	71.383648	76.804598	74.015789	70.505618	68.583333	63.816568	66.575472	62.572093	-8.294135	0.0469638
CSMD1	73.11381	73.128375	72.475127	73.15135	74.881787	73.783915	74.687044	74.007156	75.320163	75.893094	73.569097	74.285294	-1.586278	0.0037632
CSPG4	80.524254	79.264463	80.243346	80.286932	72.991477	75.889273	75.362981	74.042945	74.320132	79.755981	76.180587	75.400871	4.5867177	0.0014185
CSRNP3	74.353723	74.263736	77.013699	69.864407	73.977358	75.77533	76.210918	77.285714	79.12459	82.285714	76.997567	79.732181	-3.79978	0.04564
CSTL1	74.735294	56.818182	46.875	33.333333	73.684211	60	74.714286	78.26087	70.588235	76.805556	64.433333	79.9375	-19.36255	0.0178862
CTH	70.524272	48.076923	67.605634	54.444444	73.333333	68.072289	71.149254	68.6	65.243902	72.528302	71.916667	69.355769	-9.862121	0.0278976
CTNNA1	80.843537	77.99095	79.824953	75.90146	80.002954	80.06644	82.906351	81.153976	87.435726	85.654494	81.651429	81.655689	-3.925657	0.0296923
CTNND1	86.114173	83.59375	89.377778	93.728	80.297561	80.874214	84.358209	86.173184	87.317073	83.255319	83.327103	81.785714	4.7798781	0.0332696
CTNND2	70.26752	66.163462	71.248011	70.570721	75.568929	74.198469	73.126751	71.304591	74.029851	76.864951	72.732548	74.6689	-4.499445	0.003281
CTSF	41.603448	34.814815	24.193548	39.324324	37.196721	41.19403	42.733333	39.674699	53.414634	47.142857	46.422018	42.074766	-8.747598	0.0387993
CTSO	66.198347	53.846154	46.917808	51.538462	67.185185	63.095238	74.153846	65.808824	58.045977	67.5	65.44186	57.375	-10.20055	0.0262858
CUL2	84.426471	82.487395	82.804878	80.912162	92.466418	87.458937	84.283077	89.589595	91.285124	88.255474	86.644501	85.15	-5.483914	0.0052272
CUL4A	80.881387	85.355172	76.108553	74.635762	82.114914	87.853026	83.500901	85.602941	88.149746	85.804574	85.464765	84.259567	-6.098586	0.0104997
CUL7	72.3875	71.880597	64.403226	67.386364	77.083916	82.368794	77.528571	78.311594	85.567376	83.748718	72.837104	74.826667	-10.01967	0.0033034
CUX1	87.276374	86.766625	87.851807	86.645565	89.580701	89.147087	88.372907	88.530141	89.486471	87.509914	87.485158	86.826559	-1.232274	0.049992
CUX2	74.14127	71.060192	73.213606	72.848161	77.128	76.547031	74.597388	76.332635	77.317308	77.281145	74.133288	75.683843	-3.311772	0.0014507
CWC22	63.709677	67.261905	66.944444	54.166667	78.289474	64.179104	77.129032	69.380435	91.791045	72.868613	73.364286	72.153333	-11.87374	0.0283489
CWF19L1	82.437186	84.234234	81.343284	81.543624	82.856164	79.719745	80.275109	79	80.255814	74.387978	77.464	78.921348	3.2795621	0.0336032
CWH43	63.3125	57.530435	52	59.556818	59.966387	59.715385	66.352273	63.325203	64.661765	66.335294	59.804124	66.623894	-5.248102	0.0415178
CXCL12	27.670807	30.010753	21.230769	25.666667	42.057143	51.106667	37.363014	36.707865	41.896907	35.007937	38.258993	43.151515	-14.54901	0.0005276
CXCL8	0	0		0		33.333333	25			66.666667		50	-43.75	0.0103017
CXCR5	73.952128	66.802469	71.1875	67.454545	76.118812	75.414815	73.755245	70.72807	79.53271	80.851351	72.95858	73.729412	-5.536964	0.0232849

CXorf40B	71.855263	72.727273	76.530612	72.555556	61.428571	60.416667	32.258065	40.789474	40.245283	68.571429	57.253731	41.101695	23.159062	0.0065565
CXorf58	68.542289	48.245614	76.056338	65.680556	72.866242	82.859504	85.534722	68.5	71.941176	80.283019	77	72.117241	-11.75654	0.0408526
CXorf66	81.25	100	100	77.777778	77.777778	59.090909	80.769231	85.533333	62.5	73.529412	75	66.666667	17.148528	0.0193671
CYP1A1	94.642857	85.714286	93.75	100	85	84.615385	75.5	91.066667	90.909091	88.461538	85.8	87.962963	7.3623303	0.0454197
CYP2D7	83.714286	59.928571	74.2	73.644444	85.080808	80.946237	82.965909	75.956522	82.130841	78.378641	79.107527	84.169231	-8.220139	0.0479692
CYP4F12	56.670732	59.690476	50	58.536585	64	65.294118	57.891304	58.029851	63.913043	65.460526	66.889831	66.369048	-7.256517	0.0110014
CYP7B1	67.007895	66.1	66.005051	63.315315	74.123932	74.810811	73.63285	67.981618	75.136029	78.979885	72.519481	77.089796	-8.677235	0.0005755
CYTH1	69.53354	71.39839	70.64193	67.160521	72.564356	73.121951	76.3825	78.068266	77.260035	78.341259	75.019231	70.980847	-5.533711	0.0048645
DAB1	68.903354	71.585566	69.100788	69.578863	72.747627	71.000962	72.52452	71.905342	73.961257	73.465071	71.511329	73.312996	-2.761495	0.0020173
DAB2	60.958042	66.773333	65.75	66.684783	70.380531	70.378151	70.917808	74.202381	73.571429	75.616541	71.323171	81.952055	-8.501219	0.0032231
DAB2IP	66.301388	66.905629	66.25892	67.052881	73.08727	70.864464	71.49612	67.580931	69.649342	74.425041	68.784331	70.124218	-4.12176	0.0050967
DACH1	64.324359	56.408654	63.649695	51.12987	66.344954	66.767726	65.794344	62.776842	71.128	67.905882	64.42842	69.562712	-7.960466	0.0101492
DAPK3	76.595908	83.789474	75.655814	80.869565	92.038627	84.535971	85.31348	89.027397	86.588462	80.173554	82.562682	83.369863	-6.223564	0.0224482
DAZAP1	71.756962	67.906606	67.788945	67.894118	75.488372	73.819355	75.536313	69.669922	73.048128	76.017974	77.809019	67.437586	-4.766676	0.0308142
DCAF11	54.141732	46.875	49.413793	50.649351	60.776471	59.706667	62.365854	51.811321	73.354839	60.339623	59.063492	52.475806	-9.71679	0.0210272
DCAF17	70.955882	63.901639	62.011628	54.794521	67.47541	63.913043	82.459184	75.409836	71.2	83.333333	72.758621	72.95679	-10.77236	0.0251203
DCC	69.727543	66.18345	71.336598	69.309289	71.497286	72.938912	72.165917	68.767528	71.517385	72.818182	71.419077	72.632331	-2.580357	0.0271603
DCP1B	75.207792	67.957746	70.108696	81.010638	91.266667	74.821429	86.529412	79.856115	75.828571	80.465909	84.978723	77.628906	-7.850748	0.0496365
DCTPP1	65.510417	45.055556	34.375	49.253731	55.776471	51.855263	66.020202	62.766667	60.9375	67.261905	59.164948	61.740741	-12.14179	0.0373581
DCUN1D2	77.48564	80.246988	71.619048	69.904762	82.080292	89.817259	87.675841	78.004854	85.458874	81.501845	79.538012	76.879032	-7.805392	0.0220411
DDX11	77.298667	78.882051	73.258278	74.625767	80.621723	76.296875	82.676136	80.846847	79.084071	79.343511	80.465257	78.872	-3.759612	0.0148923
DDX4	81.90184	85.612903	78.989583	84.868421	90.95082	90.318966	90.497207	85.145455	88.290076	87.416667	88.079602	90.187793	-6.017636	0.0018878
DDX52	74.128205	60.5	78.0125	68.965517	77.865169	84.9	75.483444	79.098361	88.495575	80.1875	73.366279	78.248227	-9.304014	0.0262859
DDX54	78.58312	67.550505	72.858369	67.107317	85.194915	78.552632	81.632836	72.838983	83.07563	78.198718	74.563739	74.542857	-7.050211	0.0358637
DEFB123	73.022222	58.321429	68.5	68	85.106383	89.264706	77.270833	68.5	72.933333	75.979167	72.467742	75.736111	-10.19637	0.0313286
DEFB124	91.308824	90.6	100	95.535714	91.489362	79.904762	90.217391	81.179487	66.666667	92.342857	79.355932	88.744186	10.623554	0.0474371
DEGS2	58.603279	47.230769	56.969697	63.10396	65.688889	69.681081	63.989399	60.180905	78.216749	61.670068	64.938849	65.450161	-9.750086	0.023362
DEK	49.320388	48.076923	40.162791	37.113636	58.035398	54.196581	61.924107	49.085271	53.157895	60.110429	65.987288	52.990909	-13.26755	0.0034402
DELE1	78.465278	67.168675	73.189189	71.910112	79.285714	78.824324	86.077419	77.85	85.546667	73.508333	77.941176	77.210526	-6.847207	0.0285488
DENND1A	88.27797	87.639726	85.474227	87.690094	88.897806	88.697273	88.600535	88.965663	89.319126	89.078337	88.860891	87.324527	-1.447516	0.018721
DENND2A	74.392437	76.548658	73.960526	76.381703	78.801333	79.309019	81.318662	78.6	79.814661	83.990516	79.113617	75.516231	-4.237174	0.0092125
DENND5B	69.554337	68.638655	67.161702	71.662338	77.607143	74.478022	78.343234	70.030521	78.6608	73.611805	71.172752	74.065237	-5.491931	0.0113324
DESI1	65.238579	50	60.343511	48.695652	75	67.901408	81.726744	76.306931	65.843137	65.146497	69.84878	72.747934	-15.74574	0.0027007
DGCR6	38.697479	26.923077	25.615385	44.230769	77.05	39.9875	67.425532	79.829268	46.370968	47.354839	43.517857	43.548387	-21.76887	0.0348355
DGKB	72.008824	71.007576	69.050305	71.963855	73.783379	73.263158	73.644122	72.306358	76.715608	75.53854	76.103627	76.005609	-3.66241	0.0031288
DGKG	69.988848	66.881381	71.434066	72.57868	74.368721	71.132203	74.019847	73.43535	71.035477	75.931245	72.334076	72.835926	-2.915862	0.0339339
DGKH	78.18239	74.686347	70.216828	74.425373	81.363363	75.315789	79.027682	77.194203	84.893983	78.199571	83.55259	79.595238	-5.515068	0.0192039
DGUOK	80.867647	81.666667	83.868852	87.1875	74.091667	77.478723	73.870968	68.784314	65.704762	78.518519	73.118812	84.532934	8.8850793	0.0177369
DHCR7	79.614973	78.089888	79.0625	68.010101	83.591304	81.894309	82.182353	78.885246	90.05618	82.641026	81.559524	80.013333	-6.408544	0.0292021
DHRS4L1	60.286996	42.105263	63.233645	47.695238	57.634483	61.942308	63.96	63.900763	74.931973	66.1	63.405	65.562771	-11.34938	0.0224049
DHX15	71.956098	70.597484	66.644444	59.151786	73.711538	74.751825	73.321285	67.44186	73.421053	75.994286	72.021186	72.332192	-5.78695	0.0320621
DICER1	67.947541	65.613445	66.939891	58.283133	80.797101	83.715232	83.32549	73	83.928144	67.448	68.062893	70.559567	-11.65855	0.0157763
DIO2	64.378378	60.606061	58.064516	64.705882	58.722222	72.093023	76.697674	88.235294	84	74.941176	70.25	68.957447	-12.2984	0.0285605
DIP2C	79.471226	79.801802	80.508451	80.010989	81.269962	81.746475	82.041667	80.828738	83.417601	82.407528	80.566673	81.300484	-1.749274	0.0053883
DIRAS2	71.449153	74.05618	65.862069	69.168675	80.915789	79.964286	72.666667	73.473684	81.474747	78.541667	78.092199	79.8	-7.982111	0.003079
DKK2	52.625	63.444444	53.625954	50.993333	66.178571	61.111111	62.067669	59.945205	68.264901	53.656652	62.796364	66.167213	-7.351278	0.0348076
DKK4	76.9	86.363636	77.777778	47.368421	100	84.64	87.487805	92.857143	100	87.209302	83.333333	76.138889	-16.85585	0.0392999
DLG2	72.375374	73.511213	69.886253	74.672994	75.85038	74.873942	76.248441	72.925758	77.928541	79.044226	76.063805	76.970486	-3.626739	0.0115165
DLGAP1	75.022682	74.532402	75.277487	71.81823	76.272583	75.115766	76.311663	77.166355	77.651685	78.089275	76.148122	77.185782	-2.579954	0.0052173
DLL4	46.372549	48.284091	46.929825	37.491071	61.75	67.382813	50.941799	57.673759	52.723404	61.732877	53.662577	55.012579	-12.84059	0.0030863
DLX6	9.5757576	7.8947368	5.1886792	10.333333	17.169492	17.480392	13.917808	16.361111	10.323529	19.848837	14.566667	18.347826	-7.753831	0.0010961
DMAC2	74.115702	68.22093	67.605634	63.564516	74.426667	69.209677	78.836735	74.691358	75	72.011905	78.391304	70.509091	-5.757896	0.0307523
DMBX1	45.405405	32.567568	41.52459	37.351724	47.969849	45.539877	39.111111	47.711538	51.664975	45.254438	50.173077	46.298611	-7.503113	0.0188807
DNAH5	72.625514	71.232955	72.762032	74.774306	75.781659	74.466501	75.842752	73.75693	75.918651	78.156105	73.504551	74.867206	-2.438093	0.0227519
DNAH7	77.500835	74.392405	71.650307	76.62465	79.636139	77.339332	78.410217	74.325416	83.352442	79.985185	79.633886	80.895561	-4.155223	0.0276501
DNAH8	75.794318	75.452539	75.026415	74.745679	79.695935	78.273224	78.104794	77.83705	78.939169	79.802764	75.081209	75.373814	-2.633757	0.0178183
DNAJB11	27.111111	30.30303	26.25	62.162162	52.884615	57.5	58.169492	82.613636	42.583333	67.540541	63.761905	60.324675	-24.2157	0.0152716
DNAJB6	77.834623	76.367003	83.21147	75.277132	80.902994	82.507082	82.095195	85.940184	82.337063	80.540066	81.474719	79.572338	-3.748648	0.0343486
DNAJC10	64.418182	63.283784	62.179487	68.817204	88.058824	71.882353	75.78534	70.732283	67.948718	78.725191	78.738397	74.69378	-11.14595	0.007475
DNAJC11	83.19797	83.425714	85.124611	85.018667	88.203091	88.75	88.527875	83.664269	90.159737	88.079395	84.915108	86.798817	-3.195546	0.0197168
DNAJC21	51.214286	50.858407	52.371429	36.637931	60.008772	43.75	60.051136	66.12766	56.193798	53.277419	58.640553	60.073733	-9.494871	0.0472015
DNAJC25	43.12	28.854167	34.74026	45.717949	47.702381	50	53.669725	72.058824	38.888889	54.60241	55.309211	58.754386	-15.76513	0.0171894
DNAJC27	66.28777	54.545455	56.030303	66.129032	82.172414	69.476744	63.889535	72.4	72.37037	61.340909	70.253623	66.503704	-9.052772	0.0424512
DNAJC9	6.1521739	5.2631579	9.5238095	18.181818	31.25	36.363636	23.888889	33.333333	17.647059	19.230769	13.72549	10.711111	-13.48855	0.0281575
DNMT1	80.08	81.165789	72.775132	78.309524	86.371324	79.861598	83.250712	85.020367	85.18835	84.724561	83.601744	81.209763	-5.570941	0.0077201
DNMT3A	72.909537	63.965744	68.333766	69.701405	76.492818	71.411379	73.405239	77.531215	75.106223	70.361257	70.68994	73.425145	-4.825289	0.0260486
DNPH1	42.466019	62.5	58.928571	67	51.163934	42.014286	52.413333	49.753623	43.314286	43.333333	33.604396	37.164948	13.62838	0.0206977
DOC2B	62.054264	54.37799	59.706107	65.301115	69.513333	71.168421	67.936508	65.94902	70.34657	70.635057	60.840611	65.728814	-7.404923	0.0105397
DOCK3	79.696073	77.345606	78.571268	80.942492	83.428811	80.158355	80.865606	83	84.950767	84.12713	80.30107	81.480322	-3.150148	0.0146961
DOCK4	71.108309	71.538354	69.81745	69.368794	71.246888	75.179688	75.368824	72.823666	74.350165	76.550833	74.242519	76.341556	-4.054791	0.0019862
DPEP2NB	81.970588	70.833333	61.857143	86.111111	98.3	88.888889	85.714286	90.625	79.4	78.125	89.153846	83.307692	-11.4963	0.0437133
DPF3	76.655921	73.856932	72.249071	75.12979	76.462998	78.765469	76.265572	80.311475	80.725823	78.921285	75.839925	74.540084	-3.25615	0.0328138
DPP10	68.699702	66.704873	71.605898	67.461658	69.753447	70.228809	72.332577	71.324251	70.589729	72.478189	71.519661	71.478027	-2.595054	0.0142056
DPPA3	85.688525	93.243243	96.212121	88.679245	84.988764	74.972973	84.357895	85.185185	76.96	85.761194	82.820896	92.839506	7.469982	0.0438153
DPPA5	79	57.5	96.875	76.6	98.25641	96.774194	92.745098	87	97.727273	87.205128	95.821429	90.469388	-15.75611	0.0233506
DPY19L1	61.637405	69.090278	67.741935	69.485714	77.361111	74.087591	72.339223	72.385093	74.842105	69.765152	65.22561	73.526012	-5.452654	0.0347303
DPY19L4	81.608579	72.462963	76.874539	80.657005	84.950758	79.792308	82.356955	81.053061	85.43007	80.233766	83.91841	79.43129	-4.245056	0.044947
DPY30	71.912	68.289474	81.315789	70.297521	80.569444	73.634921	80.38	79.068966	80.87931	81.430108	80.716279	79.049451	-6.512364	0.0185976
DPYD	86.900892	86.235094	85.813067	88.286334	91.110345	88.508634	88.652605	89.928882	90.219902	89.177468	85.91092	88.4	-2.179748	0.0325805
DRAXIN	63.781316	64.11165	59.164609	55.455516	64.868805	62.343849	68.826966	67.114391	70.243986	64.202073	65.987624	64.770742	-5.416531	0.017811
DRICH1	75.643564	69.619048	77.104478	87.307692	81.036364	85.026316	87.915789	80.767857	91.460317	90.747368	83.624	84.298077	-8.190816	0.029566
DSCAM	74.124832	72.626053	71.930687	74.251545	74.5489	75.947342	74.663376	73.624697	78.538531	78.433201	74.263043	76.167751	-2.540076	0.0336818
DSCAML1	74.106101	73.403333	74.284936	74.983801	74.670599	76.371673	75.588334	74.324517	77.806467	78.946783	75.449446	75.641252	-1.905341	0.0449447
DSEL	20	12.903226	20	18.181818	11.538462	47.529412	29.697248	33.333333	52	30.283784	60.290909	32.191781	-19.33686	0.0357441
DST	65.963463	57.536296	65.176205	62.503236	67.674419	65.26206	73.451748	63.395702	71.50277	72.346805	69.765313	71.01162	-6.506504	0.0151194
DTNA	76.938547	76.329949	77.610329	77.097902	81.7173	77.632258	78.185596	78.366834	82.43038	77.393846	80.123426	78.121839	-2.252253	0.0493109
DTNB	83.515856	82.524116	83.316438	85.252669	89.184426	86.598504	89.068804	84.444086	89.546075	84.533388	84.668693	84.603247	-2.928633	0.0418964

DTWD2	81.708683	76.632035	74.193548	78.99095	79.79	81.971888	81.755611	89.168196	80.443137	83.182844	81.719439	79.919831	-4.362564	0.0435169
DUS2	75.770774	81.053476	76.840237	81.130178	81.17561	82.704167	81.726415	79.795122	84.169014	83.880952	80.863777	82.958128	-3.460482	0.0178219
DUSP16	64.24263	60.519084	66.413534	66.015625	75.682143	72.292763	70.373626	62.223141	75.145669	73.5	67.827273	67.967181	-6.328756	0.0288853
DUSP19	62.672414	66.631579	71.794872	71.969697	71.534483	69.870968	75.594595	86.363636	73	72.4125	78.573529	73.813333	-6.87824	0.0494493
DUSP26	52.992481	57.692308	41.176471	54.483146	58.783784	63.636364	54.859375	54.605263	80.357143	64.871429	70.349057	65.079646	-12.48166	0.0314685
DUSP27	66.821782	71.77931	62.467626	60.64486	69.103226	75.120567	68.228571	75.214286	76.503106	75.861878	72.508547	69.661355	-7.346797	0.0118416
DUSP28	20.330709	28.173913	6.8627451	12.820513	41.044776	43.298701	31.846939	19.149254	48	26.692308	23.644068	33.019417	-16.28996	0.0223586
DUSP3	58.333333	38.768657	44.335938	38.445378	51.22293	48.079646	67.30597	53.277778	56.505051	56.253333	63.068783	54.085427	-11.25404	0.0306962
DUSP6	15.6	5.8547009	10.9	13.484211	21.911765	13.205882	17.845455	19.897727	16.511628	9.1743119	21.015038	18.387597	-5.783948	0.0499787
DUT	5.4835165	4.6296296	14.285714	12.5	40	44	24.75	18.75	19.444444	31.730769	11.165049	22.122222	-17.2706	0.0162
DYDC1	71.41	77.777778	59.461538	67.779661	48.967742	50.492063	46.9	55.696629	60.074074	52.988372	57.07438	54.36036	15.788042	0.0009353
DYRK2	21.556561	21.519685	21.84874	17.201389	26.102941	23.089286	25.788043	30.652174	34.579365	26.442623	27.575269	34.836066	-8.101627	0.0058477
DYRK3	54.5	33.962264	63.265306	43.75	56.43662	69.263158	64.987342	68.75	52.205882	87.93617	65.696629	62.816514	-17.14215	0.032852
E2F3	68.041746	66.705882	65.466192	67.992593	76.060759	74.732523	80.556	74.651466	68.926282	73.434272	77.04947	70.46904	-7.433373	0.0031344
E2F8	88.888889	95.833333	87.5	83.870968	78.873239	72.616667	72.086957	60.784314	61.794872	76.470588	78.119565	65.601942	18.22978	0.0011607
ECHDC1	59.725664	45.295775	51.03125	40.697674	76.821429	60.741935	50.451613	76.830508	63.610169	67.2	54.777778	53.875969	-13.85108	0.0396762
EDA2R	56	52.380952	59.375	50	60	66.650794	66.326531	62.612903	58.064516	60.947368	67.093333	67.857143	-9.255085	0.0029097
EDAR	79.385965	79.796875	80.4125	80.709977	80.952672	84.106952	83.989038	81.898336	84.438384	83.214774	81.905325	82.070258	-2.745638	0.002543
EDDM3B	86.842105	100	100		50	16.666667	91.666667	50	62.5	57.142857	54.545455	86.666667	36.965496	0.0282363
EEF1AKM	80.261993	72.48062	83.684211	65.064103	89.216418	81.433824	88.890052	75.50838	88.853147	86.826667	83.502058	87.495	-9.842962	0.0245717
EEFSEC	87.666667	85.164238	85.632199	87.121687	89.164824	87.161322	90.666202	86.538308	87.558325	89.052674	87.867056	87.734327	-1.821682	0.0433778
EFCAB2	70.929392	71.003021	67.355346	67.790026	75.982456	70.071429	76.404255	67.631579	74.789604	74.174138	72.537572	75.156707	-4.074021	0.0384705
EFCAB3	80.295918	85.351351	89.826667	90.425926	78.825	82.197183	78.914063	77.351351	79.689189	85.803738	82.48	74.134921	6.5505349	0.0216618
EFCAB6	73.49733	70.637126	71.886121	72.21181	78.192678	76.678801	75.983258	74.431016	76.924214	78.055142	75.990185	78.512694	-4.787902	0.0001503
EFHC1	76.043011	67.314607	70.897959	64.851485	76.359375	76.90678	79.191011	75.285714	83.757143	75.662577	75.586538	74.105727	-7.330093	0.008913
EFHD1	67.610548	67.581227	63.702381	60.765125	75.373665	71.39172	72.352298	68.79941	70.424437	69.78487	69.464419	71.635359	-6.238452	0.0023391
EFNA2	52.250518	49.818182	52.954357	56.797571	59.78744	61.813008	58.21978	58.418251	56.232143	63.486154	58.152542	61.926396	-6.799307	0.0015951
EFR3A	59.561086	46.452555	45.833333	36.911392	59.421053	56.788079	68.186275	52.273973	59.075145	67.277778	59.343511	58.441948	-12.91138	0.0107706
EFR3B	72.956647	66.632432	69.242958	72.793478	75.441054	76.884344	76.921509	70.558908	79.115942	75.618834	72.7829	73.361719	-4.679272	0.0221394
EHBP1	86.503771	86.040323	83.279762	89.024648	90.125261	91.974419	88.967422	87.414798	89.486641	89.465079	86.550239	89.447535	-2.966799	0.0280859
EHD1	43.946097	46.558233	40.991667	48.913386	54.746914	53.165563	53.52988	46.376712	51.697595	61.286154	48.404651	52.176125	-7.570604	0.0140737
EIF2B5	60.673913	47.272727	70	32.881356	65.47619	57.45614	64.571429	80.142857	63.869565	69.753086	64.827586	77.066667	-15.18844	0.0450958
EIF3E	63.163793	61.481481	68.518519	48.275862	68.235294	62.857143	67.206107	71.875	75.641026	77.835052	75.899281	69.226087	-10.73696	0.0204357
EIF4A2	7.5087719	10	8.75	12.095238	14.583333	20.419355	9	10.493827	16.368421	16.396825	18.953846	14.627907	-5.516937	0.0249178
EIF4A3	62.63354	36.046512	48.469388	46.596154	65.184874	66.855769	75.043165	49.397849	51.456311	60.941667	70.354331	61.176829	-14.11495	0.0355903
EIF5A	13.561983	15	9	19.23	34.25	19.514286	25.226667	31.770492	19.926471	21.461538	25.176471	18.578947	-10.29011	0.0111033
EIF5A2	38.637681	34	30.30303	21.788462	42.857143	33.076923	38.52381	47.148936	39.705882	40.193182	50.255814	45.59633	-10.98746	0.0136491
ELFN1	80.259924	80.684028	79.607492	79.252931	84.391188	82.646307	81.572785	78.833083	83.210526	82.958937	81.863507	83.613734	-2.435165	0.0216204
ELMO2	62.579399	71.849057	64.115854	64.557576	70.26087	89.655172	72.359833	77.171975	75.942675	74.621891	75.016949	72.282313	-10.13849	0.0130572
ELOF1	65.326733	71.529412	62.042553	66.946667	56.558442	54.619718	59.541176	49.987805	67.307692	57.411765	62	53.097826	8.895788	0.0160514
ELOVL4	29.868687	19.078947	24.390244	21.764706	32.347826	20.588235	40.757143	22.402597	51.851852	43.373494	41.584615	42.303922	-13.12556	0.0466211
ELOVL6	66.52381	62.748466	63.982036	56.927632	68.427692	67.506289	68.941924	70.813456	67.17847	64.602592	69.771044	69.107667	-5.748156	0.0063695
ELP2	82.926966	90.96875	83.480392	84.684685	79.409091	77.042857	74.534653	87.522936	81.142857	82.805369	79.450893	74.676056	5.9421092	0.0419334
EMC1	92.39759	89.285714	90.783217	91.434211	88.434066	89.731579	86.507692	87.044118	90.168478	84.138211	83.812245	83.535484	4.3036988	0.0130573
EML3	55.224138	39.074324	48.525862	56.110092	73.061069	70	68.94186	60.579365	68.153846	53.945122	64.264249	55.975248	-14.63149	0.0079133
ENPEP	76.625	75	74.7	78.619565	84.847826	75.156863	77.148472	79.870968	80.341176	81.69697	81.592742	81.435146	-4.025129	0.0341521
ENSA	49.839286	28.947368	49.512195	22.727273	78.571429	55.54902	70.333333	72.413793	65.277778	48.907407	54.142857	47.521127	-23.83306	0.0104681
EPB41L3	67.035651	61.090909	68.099071	63.757396	72.818182	66.711765	67.516179	69.78866	72.140805	73.05395	67.373913	69.964497	-4.925237	0.0155186
EPDR1	44.372263	44.44086	41.931034	39.666667	44.896104	58.033333	60	51.243902	56.33	59.961538	56.2	58.256944	-13.01252	0.000798
EPHA3	73.917117	69.636964	66.326007	67.681672	75.611276	71.05914	74.600316	72.732523	72.965937	73.265136	76.159122	75.887608	-4.644692	0.0093628
EPHA4	70.552536	66.885246	72.323625	70.622951	74.545894	70.522193	74.711443	72.695876	72.525301	73.523191	71.711207	74.276423	-2.967852	0.0204872
EPHB1	66.419663	66.44098	66.846929	64.857281	72.1289	69.235765	69.496579	65.51752	72.835128	73.236927	69.017526	72.598324	-4.367121	0.0107063
EPHB2	69.852169	72.68595	70.888434	71.299728	76.046423	74.676565	73.385131	72.866995	76.631786	77.155251	73.883838	73.939544	-3.641621	0.0024502
EPM2A	56.996283	55.029268	53.571429	44.989071	66.758824	60.261307	66.139785	55.331492	63.753012	64.543478	64.832258	66.441781	-10.86123	0.0022722
EPOR	23.511111	15.714286	19.620253	17.115854	27.588889	27.39375	20.24183	30.702479	29.794118	17.814286	23.115385	23.729885	-6.057202	0.0430799
EPS15	80.020561	72.793548	81.776119	71.71564	85.442244	82.393258	81.627778	82.376437	85.824451	82.075472	84.37604	85.582181	-7.135766	0.004057
ERC2	70.712617	72.319118	71.167139	73.826508	76.266378	74.709696	76.224042	72.913804	75.528146	79.189132	75.379792	76.024065	-3.773037	0.0040002
ERI1	55.536082	59.103093	64.172414	51.742424	66.898551	75.367816	73.912621	57.419355	74.411765	80.12381	70.463415	69.075	-13.32054	0.0068845
ERLIN1	64.393258	42.553191	41.818182	40.384615	74.025974	64.084507	60.5	85.301887	67.876404	66.988095	61.166667	76.145455	-22.22381	0.0032933
ERMARD	74.792308	70.062112	63.238095	62.335443	87.198758	70.12	80.4	74.495098	79.350282	77.985222	72.003497	77.22973	-9.740834	0.0162806
ERMP1	59.877358	57.236842	62.279661	60.487395	70.641791	78.904348	65.852941	70.792079	71.504348	63.696809	73.865591	66.490909	-10.24829	0.0027287
ERO1B	57.034653	61.71875	55.714286	45.050847	70.35	53.461538	60.532189	68.664596	65.306122	63.790419	67.247934	80.923077	-11.40485	0.03588
ERVFRD-1	88.728814	81.818182	84.52381	87.931034	86.170732	93.181818	92.78	87.454545	97.5	86.6	91.142857	93.985507	-5.351473	0.0445605
ETV2	12.413462	13.227273	10	14.571429	26.952381	16.881356	20.085106	14.307692	20.1625	22.855072	16.588785	13.575472	-6.373005	0.0240161
EVC2	76.91638	76.992322	74.673554	74.885437	79.470209	79.776316	83.207719	79.58841	80.762195	83.187324	75.632461	80.523232	-4.40156	0.0069304
EVL	75.403718	75.869159	74.006536	75.243736	77.132404	79.820037	77.170823	78.426531	74.985401	78.578867	76.058228	76.301549	-2.178443	0.0276725
EXOC6	83.416974	72.570533	78.945799	72.44898	85.987578	87.291139	82.226212	84.768977	90.973333	89.884876	78.58631	78.658363	-7.951527	0.0242314
EYA1	67.834254	66.847656	60.023364	62.017341	73.534247	66.548117	71.460733	70.570423	75.604317	69.964809	69.972973	72.854123	-7.133064	0.0036114
EZH1	78.693498	77.753927	84.245	73.107143	82.960317	88.981308	83.234323	87.44843	84.651163	84.428058	81.866279	81.9475	-5.98978	0.0141804
F11	76.210084	77.8	64.189189	73.392405	77.4	87.042254	82.300699	74.871795	89.481481	87.833333	83.867925	82.735484	-10.2937	0.010971
F13A1	67.5	69.247863	66.618297	69.253012	73.823113	70.246537	72.120715	67.452088	72.745721	74.632432	72.845821	72.805405	-3.929186	0.0100609
F2R	46.992481	53.75	50.877193	51.869159	67.37234	63.934426	64.189189	63.846154	56.922078	57.446281	60.348837	77.466102	-13.06847	0.0037692
F2RL3	57.046512	37.205882	41.021277	40.519231	46.527273	39.614035	66.666667	74.979167	62.707692	62.675325	69.2	64.325301	-16.88871	0.0313655
FAAP20	77.823899	62.864865	58.386364	71.891304	79.866667	75.214286	66.525316	89.71028	85.43662	90.663934	77.978723	76.128205	-12.4489	0.0345214
FAAP24	70.833333	43.617021	80.555556	67.857143	76.078947	84.631579	77.59375	79.90411	87.061224	88.705128	76.88172	69.988889	-14.38991	0.0420789
FABP4	33.333333		33.333333		50	50	70	87.5	73.2	66.666667	87.5	83.333333	-37.69167	0.0098168
FADD	26.50365	27.925373	23.704225	17.352941	34.151163	41.027397	38.982759	41.891892	42.493671	36.047619	35.045802	40.4	-14.88349	6.91E-05
FAH	76.432343	65.666667	80.368421	73.65285	82.988889	86.538043	78.015444	77.471264	79.411043	85.937778	78.526316	76.937729	-6.698243	0.0422675
FAM102A	56.285106	63.615686	60.695341	55.966565	68.349206	66	69.050602	65.151899	68.083067	66.975728	58.334773	64.977778	-6.724707	0.0102489
FAM110B	67.258982	63.381471	66.830357	60.043077	70.675057	68.180203	69.770615	66.1	70.600868	72.031068	66.222531	73.804645	-5.294651	0.0143658
FAM117A	75.381503	67.059524	67.116279	68.265193	78.256506	74.214286	76.276353	69.711864	76.193396	74.290598	77.856397	76.007389	-5.895224	0.0119506
FAM124B	71.743363	65.121212	67	72.979592	72.25641	78.476744	72.709677	76.736264	72.4	77.133333	69.958621	80.607692	-5.823801	0.0284911
FAM135A	76.28882	75.027273	69.422111	69.514286	85.423868	69.895833	80.27809	74.937008	83.639344	81.740625	78.21564	77.244944	-6.358797	0.0486559
FAM149A	60.476364	63.583333	60.826797	56.168224	77.041237	64.412698	66.766372	72.553648	75.692308	74.49354	64.413043	61.931034	-9.399305	0.0149737
FAM153B	79.052174	77.459459	61.627907	74.673077	83.223684	75.384615	79.622517	81.944444	78.358209	83.835294	85.678899	79.888889	-7.788915	0.0332931
FAM160A1	77.214715	73.75	70.559006	74.140351	80.848101	76.079365	77.065104	76.850356	77.41841	79.301533	78.994969	77.53222	-4.095239	0.0071655
FAM160B1	42.526596	33.846154	40.513761	60.43956	88.25	56.306306	58.818182	47.434343	50.258065	70.162162	62.986111	58.771574	-17.29182	0.0464763

FAM162A	69.17284	48.571429	58.8	72.641509	71.09375	69.967742	74.047619	74.183673	69.630137	76.551724	71.134615	65.910112	-9.268477	0.0439411
FAM163A	58.392739	62.435967	56.840909	62.117647	66.762637	62.088795	65.320423	63.404199	62.597753	62.977819	66.054688	64.728571	-4.295045	0.0072779
FAM166C	61.338028	67.650943	65.891892	57.366071	68.562044	71.063492	67.379487	64.246479	66.99359	72.130435	72.379487	68.040541	-5.787711	0.0213114
FAM169A	64.418719	62.55102	55.517588	63.763547	79.420635	74.40553	72.542725	70.785156	74.403448	74.519062	67.731463	68.847619	-11.26924	0.0007397
FAM181B	7.4338235	4.2592593	9.4210526	5.3666667	12.991525	10.6	8.4637681	14.074468	10.929134	12.413793	9.8986486	15.861538	-5.283909	0.0044841
FAM184A	73.932551	66.346154	63.291925	80.06993	83.189516	74.373684	76.39599	78.872449	86.392857	81.218978	75.620098	76.136598	-8.114881	0.035318
FAM184B	72.687093	71.345361	74.711165	71.280182	80.998201	73.849462	73.97125	75.12334	75.210425	77.855051	76.00442	76.879331	-3.730485	0.0181241
FAM189A1	70.513785	71.936138	69.002108	70.813999	73.700532	74.694644	74.23506	73.370484	75.65795	77.406794	72.700661	74.310357	-3.943052	0.0009591
FAM199X	56.383838	44.827586	32.322034	50	46.448276	71.730159	73.636364	63.53125	94.594595	58.653846	57.909722	63.043478	-20.3101	0.03058
FAM240A	80.637681	69.565217	69.354839	71.428571	76.804878	73.029412	88.091954	79.166667	88.596154	86.746032	86.789474	77.174419	-9.303296	0.0280718
FAM241B	38.9	37.5	18.75	25.277778	80.769231	37.4	72.395833	45.483871	75	40.714286	42.709302	34.915254	-23.56653	0.0441328
FAM24A	68.75	25	50	37.5	100	62.777778	85.714286	100	81.25	80	44.444444	60	-31.46081	0.0242855
FAM32A	54.183673	31.521739	52.941176	60.833333	57.516129	62.037037	63.550388	62.3	68.644068	55.747126	56.973214	59.571429	-10.92244	0.0455327
FAM47C	87.575	95.652174	91.304348	92.577778	88.846154	82.727273	77.761905	75.4	73.826087	69.230769	79.038462	84.785714	12.825279	0.0038824
FAM49B	72.74238	66.760095	70.622266	71.818792	75.982786	74.477727	75.00097	76.165906	78.153333	73.796117	70.468126	74.881416	-4.379914	0.0123534
FAM81A	69.412256	68.871345	66.229947	67.816832	71.59375	63.754464	75.243017	78.509174	73.384279	75.544413	76.126437	76.54102	-5.754474	0.0366965
FAM83F	71.519481	67.497925	62.458781	63.331307	71.976563	72.739812	79.607477	76.5	75.376812	74.59292	72.849817	72.456597	-8.310626	0.0015522
FAM89B	3.5714286	4.0816327	4.1666667	2	10.545455	7.3396226	12.166667	9.4285714	5.8823529	11.345455	6.765625	6.7765957	-5.326361	0.0018677
FAM98C	49.243243	54.545455	59.210526	39.519231	55.013699	73.061224	54.22	60.526316	68.425532	69.202247	58.252252	60.6875	-11.79398	0.0272455
FANCA	85.526871	86.692464	86.706004	88.179798	84.736248	79.375522	82.822564	85.781711	79.669399	84.464548	82.203532	82.327635	4.1036397	0.0078488
FAS	23.479167	31.859649	27.692308	12.354839	35.190476	41.050847	28.666667	26.746479	35.225352	30.806452	33.210084	33.94958	-9.259252	0.0284556
FASTK	48.850877	51.828947	56.603774	38.104167	65.625	56.582278	52.292308	64.328125	68.455882	55.258065	55.897196	52.058333	-9.965207	0.0387849
FAT4	54.851955	64.15736	55.084211	53.201923	71.29108	66.807107	71.079602	65.122727	69.831858	61.601449	64.737864	60.306167	-9.52337	0.0056152
FAXC	63.517007	60.110429	70.708861	71.173611	72.7343	77.560694	68.262458	73.921788	72.819588	82.022222	76.532423	70.920588	-7.969281	0.0190235
FBH1	77.914141	75.543478	79.219731	81.929204	90.080153	81.101124	86.24821	86.173729	87.536481	86.108696	82.822115	79.392308	-6.281213	0.0111293
FBL	70.960317	77.536232	83.190476	75	71.771084	60.85	72.862595	74.859155	72.15942	56.258065	65.726496	64.124031	9.3454006	0.0339671
FBLIM1	67.702703	70.358407	66.62766	62.895928	77.919149	74.402542	72.558739	70.698113	69.696498	72.149533	70.548469	67.331828	-5.016935	0.0273323
FBLN5	82.083904	82.320574	83.774194	83.298305	80.515942	80.968023	79.408998	82	80.956395	82.251012	79.820225	75.628866	2.6755615	0.0353719
FBN1	68.09403	65.613293	66.237082	68.727869	72.87631	69.801061	71.575	76.577128	67.934322	75.09329	71.73494	74.81337	-5.382609	0.0062415
FBXL17	77.218506	75.919918	76.396154	69.756813	78.909228	79.932971	76.234724	76.658576	75.612329	82.684091	79.659427	80.870119	-3.997335	0.0413344
FBXL4	62.668919	54.425532	55.263158	54.545455	72.093023	65.40404	72.222222	79.685484	64.948454	74.424	67.771845	67.836842	-13.82247	0.000759
FBXO11	77.774286	74.098361	74.99505	71.924324	82.10566	89.085837	80.641463	81.996656	86.686636	82.979827	83.652174	81.524229	-8.886055	0.0003567
FBXO24	64.147368	52.150538	56.440476	55.226891	63.840336	63.886364	69.316547	68.701389	69.558333	59.472826	71.919048	66.294931	-9.632403	0.0049895
FBXO36	83.182796	78.010169	80.575676	82.28	84.374207	88.648585	88.364217	88.145833	87.343902	86.186813	86.404444	83.701754	-5.634059	0.0009222
FBXO44	69.512987	60.027397	82.442623	62.12381	79.461538	94.241758	81.745098	97.131579	86.213333	71.266667	78.413043	72.794521	-14.13174	0.0369623
FBXO9	97.438776	96.54902	93.75	93.274194	89.130435	92.019231	95.247525	90.867925	92.45283	93.164948	91.105263	87.529412	3.8133011	0.0216755
FCAR	68.563218	64.621622	74.519231	61.42	70.824324	72.562044	73.62069	70.484848	69.952756	76.181208	77.494565	71.333333	-5.525703	0.0416069
FCRL3	62.823529	61.627907	59.210526	73.529412	67.083333	78.514286	81.769231	69	80.055556	78.195122	66.407895	81.873016	-11.06446	0.0206295
FDCSP	75	0	40	50	62.5		61.538462	60	83.333333	83.333333	77	61	-28.56502	0.0494708
FEM1B	34.052941	30.45977	33.256098	28	61.702128	52.041096	37.671233	25.892473	60	47.055556	47.719008	44.415094	-15.61987	0.0271549
FERMT1	63.646429	56.302817	60.714286	56.622222	68.460526	57.669565	65.70155	73.228261	70.206061	62.751092	63.018405	67.936508	-6.800058	0.0343172
FEZF2	16.592179	16.021505	27.120879	27.586207	12.819149	14.061856	14.079268	12.66443	14.422764	8.6043165	17.451613	12.321951	8.5270241	0.0065309
FFAR3	82.2	25	78.727273	56.444444	74.057143	92.64	89.666667	90.909091	96.9375	94.791667	65.521739	78.294118	-24.75931	0.0410878
FGD4	82.278689	83.159609	82.070513	83.063927	86.159091	84.594697	83.685225	82.46875	84.584337	87.651584	85.071028	85.172557	-2.280224	0.0189341
FGF5	31.282609	28.125	35.911111	27.45098	49.696429	41.855263	34.670213	37.745098	39.254237	37.863636	45.588235	38.284404	-9.927264	0.0055196
FGFBP3	1.1111111	2.8985507	1.5151515	0	12.5	14.756098	14.72973	1.7857143	5.2168675	9.3333333	5.5983607	7.2839506	-7.519303	0.0125168
FHAD1	75.876413	71.66	74.10355	74.340458	76.502575	76.944041	77.852679	78.017136	78.529801	79.999086	77.411268	76.144938	-3.680085	0.0016137
FIBCD1	65.13601	67.534177	64.824691	64.623025	63.597122	67.174157	69.743456	67.942197	69.685484	69.931099	69.351199	69.584379	-2.846661	0.0390804
FIG4	79.593168	80.147059	74.507937	74.143713	86.054167	86.73494	84.911458	87.657534	82.366812	81.508197	86.751825	79.884298	-7.385685	0.0022981
FIP1L1	66.045685	63.779528	61.328125	38.561983	72.604651	65.736434	73.485477	74	77.640719	74.882096	70.167364	70.373984	-14.93251	0.009313
FIZ1	79.92233	77.989899	52.117647	73.891304	75	92.854167	80.445652	82.846154	85.582192	82.085106	77.436842	82.719298	-11.39088	0.0499247
FKRP	74.075099	50.133333	32.186275	52.135484	68.845714	65.327869	72	56.136364	70.122699	70.356522	66.333333	76.138095	-16.02503	0.0333752
FLAD1	70.240876	67.12963	80.105263	69.011765	83.320513	84.473684	80.356322	76.608108	78.207317	80.597938	82.133333	80.274194	-9.124543	0.003046
FMN1	75.735099	71.857339	74.876433	73.215343	75.032503	77.391164	75.814886	78.812311	82.665339	82.951368	81.110981	80.393471	-5.350449	0.0087379
FMN2	68.814925	69.929178	66.095597	69.853333	73.68533	70.969457	72.54693	73.535424	75.216043	75.769692	71.325495	70.09356	-4.219483	0.0055991
FMNL2	70.86629	70.048017	72.007299	68.621572	72.396947	73.173913	75.915344	77.931138	76.561765	74.661273	71.920826	74.850084	-4.290617	0.0044615
FNDC1	61.043831	52.859043	58.697861	57.350543	64.192399	62.534247	62.612853	65.529126	67.742794	64.359116	60.928264	63.869031	-6.483159	0.0020312
FNDC7	83.48855	85.606061	90.47619	95.945946	84.987805	75	86.789855	77.311828	88.541667	83.747664	78.901235	76.842105	7.3639169	0.0448658
FOPNL	67.776786	80.555556	64.910448	70.689655	74.82	81.454545	81.741379	83.513514	75.16129	84.454545	78.02	76.603175	-8.487945	0.0178147
FOSL2	53.939873	46.311881	50.649254	48.685185	56.586538	67.64497	62.332	57.022727	54.264706	55.846743	55.054152	53.522034	-7.887685	0.014976
FOXA3	72.594771	55.255319	69.303797	59.43956	65.046729	70.039216	77.271318	74.907216	70.028037	78.803571	69.690647	72.704225	-8.163008	0.0460506
FOXC1	4.3008475	4.1172414	3.4482759	4.0123457	12.840278	9.7586207	10.126582	14.925373	5.7033898	4.5271739	6.9393939	6.1336898	-4.899635	0.026871
FOXD3	7.0315789	4.1666667	3.2894737	2.4590164	13.095238	15.96875	12.101695	14.864865	8.7157895	2.3622449	8.3958333	10.64433	-6.531909	0.0182654
FOXD4L3	17.848485	0	0	15.384615	22.688889	12.941176	13.333333	15.789474	22	15.807692	18.52	28.962963	-10.44717	0.035031
FOXK2	79.492671	75.248563	75.718799	76.106646	81.534739	81.076651	81.371053	83.211034	78.923977	79.888075	79.141093	78.686447	-3.837464	0.004119
FOXN3	84.956927	81.350567	79.379619	81.086548	84.291171	83.633272	85.913017	86.598843	84.554239	83.602676	84.255932	84.829371	-3.0164	0.0101728
FOXO4	52.595238	52.173913	52.941176	78.3	43.377049	40.5	21.393939	48.325	53.030303	28.017241	40.148515	30.021277	20.900916	0.0137088
FOXP2	77.327103	75.709877	78.989362	80.208333	79.880435	80.206704	80.940541	80.901408	84.085837	80.620253	77.938534	81.12761	-2.653997	0.0354982
FPR2	59.317073	66.216216	76	71.592593	87.096774	76.171429	75.629032	82.787879	80.357143	65.632653	82.681818	72.177419	-9.535298	0.0491295
FRAS1	70.840678	71.418898	66.15767	74.020548	72.351479	74.678763	73.151663	72.380838	78.599747	75.453039	73.414961	74.450714	-3.700702	0.0353066
FRMD3	70.470847	74.677932	70.451852	74.298077	73.994764	74.747941	74.714286	74.95283	76.359133	78.49702	75.22288	75.686933	-3.047296	0.016396
FRMD4A	75.789614	74.664609	75.965959	74.260336	76.424583	75.457271	77.119775	74.673657	78.643678	78.658895	77.502136	78.431317	-1.943784	0.0390584
FRMD4B	80.700226	76.398707	76.540338	79.777778	82.503436	81.959381	82.823466	81.027464	79.49584	79.386189	79.912262	80.145682	-2.552453	0.0316017
FRMD5	79.681965	76.126183	78.367537	74.010622	83.355952	81.817427	80.652709	84.339623	85.793774	81.376091	80.506726	79.58965	-5.132417	0.0039084
FRMPD1	70.153543	67.787879	67.854369	70.026059	73.173797	71.684492	74.990826	67.856698	77.10411	77.264033	72.581818	71.338053	-4.293766	0.0281929
FSCB	96.153846	75	100	100	66.666667	100	57.692308	50	66.666667	75	68.75	67.333333	23.77484	0.0190007
FSIP1	76.10989	81.440529	79.354515	77.396	82.389937	80.238754	86.078629	80.15625	83.747922	84.318296	78.5097	81.615658	-3.55666	0.0394609
FSIP2	39.848837	42.590164	42.78	38.77551	60.56338	42.857143	59	52.166667	69.318182	55.198276	62.175182	56.614035	-16.23798	0.00241
FSTL4	69.091093	73.888021	69.722222	71.236722	77.046963	73.474587	73.615385	70.531629	74.106443	77.542455	73.64198	73.091329	-3.146832	0.0422991
FTCDNL1	59.020202	66.346154	84.659091	72.109091	50.384615	39.16	59.456897	60.225	68.60274	53.613636	49.165217	54.75	16.113871	0.0191361
FUOM	27.620253	9.6153846	35.185185	17.857143	42.105263	48.076923	38.372093	63.636364	63.157895	31.513514	45.522388	34.302326	-23.26635	0.0093968
FUT8	81.930095	80.104545	83.799611	77.506276	87.883681	82.615242	85.862579	83.407599	84.181049	84.620592	83.436902	83.959445	-3.660754	0.014649
FUT9	68.196141	63.453947	58.475	66.015625	71.221757	68.176166	68.233062	66.160377	72.763052	75.840816	71.498708	68.190349	-6.225358	0.0155196
FXYD6	66.482857	59.322368	62.880435	61.823834	67.439815	62.640816	70.343042	68.630435	70.440367	72.316176	73.811258	69.994286	-6.824651	0.0066713
FYB1	41.137255	57.706897	46.72973	36	55.550802	57.434783	53.147335	49.451807	56.787356	56.660287	56.944637	63.661721	-10.81137	0.0161239
FZD3	62.145923	78.324786	58.787402	50.172414	71.409091	75.228571	70.737069	70.204724	78.594203	73.848649	65.144876	73.295359	-9.950187	0.0490829
GABARAP	46.452991	33.928571	51.153846	29.678161	55.365854	51.639344	48.714286	50.846154	60.829268	47.931624	48.314961	50.15942	-11.42172	0.0187756

GABBR2	69.617267	68.926895	66.81519	67.85301	73.52171	71.991028	72.639623	68.691429	74.068449	74.468175	70.197881	73.190496	-4.043008	0.0042841
GABRA6	71.428571	52.272727	61.764706	61.538462	74.307692	63.333333	62.5	81.25	76.375	84.615385	72.222222	84.8	-13.17434	0.0290165
GABRG3	71.498717	71.351107	70.748213	71.50697	73.013068	73.162387	73.943633	70.695968	75.278162	76.908354	72.277341	73.831939	-2.362605	0.0349229
GADL1	73.05414	70.755245	69.423841	77.152672	78.684783	74.436364	79.365772	77.35	76.050847	78.129568	79.414286	79.925481	-5.323163	0.005112
GAK	89.993373	87.005353	86.431614	85.893564	88.760512	89.665099	90.053785	87.993548	88.416206	89.898042	88.754409	88.332927	-1.65334	0.0478239
GALNT10	80.565844	77.4375	79.192607	81.589844	81.791209	83.69313	84.30359	82.130915	81.58908	82.29067	78.843925	81.440661	-2.313949	0.0490081
GALNT15	75.812709	70.217742	69.110429	74.059603	76.925926	77.546296	77.980519	74.277228	79.664894	76.011719	77.178248	83.672131	-5.606999	0.0103911
GALNT16	66.361878	64.588921	68.348703	64.494975	71.663883	69.254197	66.707692	72.955189	71.183857	71.921667	68.684211	72.735054	-4.689599	0.0044066
GALNT18	68.291234	68.501211	69.876975	70.270065	71.287037	73.658429	74.723295	69.931222	73.614592	77.570939	72.21118	75.724267	-4.355249	0.007423
GALNT7	72.044534	68.334416	62.592334	65.39485	75.407143	71.921569	83.304069	79.822581	85.316901	69.870968	71.897391	69.937824	-8.843272	0.0271776
GALR1	46.175573	28.614907	37.53271	36.580882	43.120879	38.330769	40.886275	48.453782	47.915	40.976077	45.916335	50.203846	-7.249352	0.0499138
GAP43	65.103448	56.460526	48.404762	58.695652	66.342657	65.648855	68.417004	65.512658	70.03681	63.278302	66.541667	69.389474	-9.729831	0.0036847
GAPDHS	62.481013	51.148515	60.843373	69.205882	74.780952	63.638298	67.680272	71.263736	74.431818	67.886667	71.939597	67.848684	-9.014057	0.0176612
GATA1	62.45	60.285714	70.395833	66	74.325581	72.5	78.603774	65.511111	74.074074	74.978261	68.441176	74.661017	-8.103987	0.0103569
GATA6	41.952174	34.196774	28.746711	30.911215	38.498246	43.356643	43.464373	44.733068	32.886957	48.970395	43.606965	40.319101	-8.02775	0.02812
GATD1	64.798354	56.36478	71.477612	69.904762	79.198582	79.631579	71.751323	76.945355	69.681319	77.994898	75.630631	75.094262	-10.10462	0.0059878
GBP5	18.108108	34.090909	40.384615	21.428571	42.342857	59.555556	58.16	48.611111	62.97619	49.413793	47.591837	36.552632	-22.14745	0.0034273
GBX1	49.258503	37.135802	39.272727	48	50.368421	45.125	52.263514	47.532787	50.011628	57.068376	46.748466	56.142857	-7.240873	0.0369833
GC	79.825397	77.027027	60.869565	73.333333	78.929825	76.472222	80.777778	77.333333	82.30303	87.5	83.560976	83.684211	-8.556341	0.0298724
GCLC	58.462312	63.768595	50.518519	45.535714	66.398936	77.561983	64.482927	62.873494	67.452229	66.356383	69.136364	66.670732	-13.04535	0.0042548
GDF15	16.628866	5.8823529	7.859375	13.708333	24.647887	20	24.75	11.943396	30	9.4631579	20.034483	21.254386	-9.241932	0.0374639
GDF7	27.898833	35.181818	24.524823	42.917647	35.842391	49.379845	42.871094	46.493333	42.461111	35.895928	35.663755	48.956835	-9.564756	0.040219
GDPD5	71.614371	73.610063	72.143508	69.895131	75.405694	77.08557	74.501279	75.617347	70.808442	78.357813	78.589359	73.029284	-3.60858	0.0324345
GEMIN5	77.391473	76.383333	80.377622	68.911392	86.393064	78.516746	85.003968	79.888199	80.578947	79.544715	79.677419	78.710247	-5.273208	0.0399139
GET1	57.410959	50.421769	60.435374	51.838235	58.804124	60.598802	65.497717	56.007519	63.02521	56.902326	63.617647	61.807377	-5.756006	0.0329354
GFM1	54.223881	54.054054	50.909091	58.611765	59.010204	58.90411	71.406452	55.54023	72.596154	68.107438	64.84375	65.510526	-10.04016	0.0134025
GFPT1	76.646497	75.140351	73.395604	75.153005	83.919149	73.765027	80.982659	80.421875	78.671795	81.320132	82.904412	78.072222	-4.923294	0.0155682
GFRA2	73.461877	71.390313	72.981771	76.89486	75.288306	77.514161	77.455904	75.035176	78.961259	80.460854	74.748103	75.660167	-3.208286	0.0346383
GFRAL	69.520548	69.607843	74.561404	70	77.116279	88.875	72.535714	71.125	80.909091	84.090909	76.025424	75.721805	-7.377454	0.0422205
GGT2	68.366795	71.405063	64.436893	71.66	72.978873	73.757895	76.835526	71.074766	76.641304	77.020548	68.240964	78.114583	-5.36587	0.0283354
GGTLC1	77.166667	76	83.688889	88.636364	93.108696	83.333333	87.742424	91.176471	94.594595	90.692308	86.65625	85.43662	-7.719607	0.020974
GH1	85.483871	100	87.5	89.777778	82.266667	74.8	78.285714	90.074074	81.352941	85.285714	85.666667	79.833333	8.4947734	0.0265068
GIMAP4	53.083333	65.217391	62	44.263158	70.8125	56.071429	73.487179	61.741935	59.631579	69.590909	67.392157	71.282609	-10.11032	0.0494509
GLB1L3	64.606132	67.51073	59.522184	65.83165	74.950131	69.461972	71.992683	73.67	75.287926	69.387187	70.324009	71.677928	-7.726305	0.0009234
GLDN	61.860825	65.347826	59.258427	72.549223	75.354086	70.265217	68.668421	72.821739	75.484848	74.440367	69.881612	70.717224	-7.450114	0.0104177
GLI2	70.97561	70.048387	69.665441	72.807668	73.041227	73.213938	71.881942	71.90804	74.826471	74.650885	73.600897	72.108666	-2.279732	0.0133653
GLIPR1L1	53.947368	71.241379	70.967742	75	72.222222	78.846154	84.66	81.034483	80.352941	75.609756	73.307692	72.837209	-9.569685	0.034799
GLIS3	67.877551	63.141256	62.848661	68.092965	70.902724	62.617021	70.444651	68.54902	75.043781	73.718884	72.182121	71.741027	-5.159795	0.0392031
GLRX3	69.380769	64.297872	61.937008	59.888199	73.110465	67.295597	71.401384	72.946667	70.947368	72.246914	78.980159	80.992126	-9.614123	0.004664
GLS	63.797297	50.152381	51.086957	59.675676	83.147368	67.165414	65.316092	64.390909	81.196581	65.895954	58.371528	59.611336	-11.95882	0.0446706
GLUL	38.8	41.09589	22.506494	39.49	51.419355	40.833333	45.372549	44.633929	48.958333	46.621212	39.861538	48.859873	-10.34692	0.0158973
GLYAT	52.777778	60	62.5	75	69.230769	77.777778	70.967742	69.230769	77.777778	71.052632	71	76.086957	-10.32111	0.0175764
GMPPB	57.45	50	79.772727	49.152542	43.446429	36.1	54.027289	40.134328	28.952381	42.430233	29.918033	37.041096	20.081969	0.0099207
GNA11	73.311765	66.623377	71.224432	70.559284	79.843564	77.525105	77.102256	74.058824	83.16453	73.257246	72.396867	75.017323	-6.116	0.014961
GNAI2	56.337748	47.803797	60.316129	56.348684	64.191489	62.307339	56.76	59.9375	67.440476	59.971698	60.228261	56.970803	-5.774356	0.0472496
GNAL	65.7901	63.595745	67.174404	68.077537	72.181733	68.509214	71.90653	66.484699	73.44917	73.502404	69.197039	73.284302	-4.90494	0.0087938
GNAS	47.607595	39.613365	40.620455	48.964435	46.407339	53.774892	53.575107	52.851351	53.690428	43.302479	50.33033	48.983095	-6.162915	0.0368583
GNB5	67.229446	60.048443	74.053004	62.164983	75.633766	72.71746	75.103792	74.008596	75.688312	73.603939	73.298025	73.869048	-8.366398	0.0031395
GNG10	37.568627	30.821918	21.276596	42.857143	52.12766	54.166667	54.636364	45.74	61.206897	53.510204	46.16092	32.707547	-16.90096	0.0105391
GNG12	64.156463	68.094737	57.287356	55.487805	66.349845	66.15534	66.757384	70.697842	67.645614	69.35023	62.089928	64.422034	-5.426937	0.0480788
GNG4	73.265936	69.925156	75.354717	74.944554	80.790977	75.474339	79.503504	78.917508	78.443096	75.820665	74.947853	75.847222	-4.095555	0.0151113
GNG7	74.253041	73.190476	76.482319	76.226058	79.368119	77.121951	76.293933	77.333663	76.588207	76.997224	76.035934	77.502836	-2.11726	0.017831
GNL2	76.81761	75.510204	75.612903	77.14433	76.913462	84.285714	85.389937	82.816794	86.686567	85.653226	82.179487	79.674312	-6.678676	0.0030407
GNPAT	82.716495	70.708738	70.348837	67.592593	89.07563	82.291667	80.325	84.615385	84.964286	81.560976	79.991935	78.581227	-9.834098	0.0062262
GNRH1	100	100	100	94.444444	90	92.857143	92.307692	80	91.666667	100	88.235294	82.608696	8.9016747	0.0235065
GOLGA3	86.954044	87.337711	86.433931	86.075601	90.075472	87.625341	87.935118	88.804809	88.879567	89.660912	85.99797	88.047203	-1.677977	0.0338045
GOLGB1	77.516304	70.290323	58.966102	75.510204	77.348993	89.852174	79.609442	76.483871	76.478528	82.269608	78.49434	79.733813	-9.463113	0.0249374
GOLPH3	63.41716	63.254144	58.252174	57.657303	66.616279	68.679558	71.47973	58.968182	62.5	69.574324	71.435393	64.178082	-6.033748	0.0381497
GOT1L1	73.522727	82.352941	69.565217	80.681818	75.882353	87.5	80.083333	82.758621	95.190476	95.833333	81.769231	87.486486	-9.282303	0.049391
GPC1	53.82439	53.725061	50.562347	53.378928	65.676	63.874172	57.5	59.93097	60.476285	57.585404	65.555938	59.286472	-8.362974	0.0008959
GPC5	72.295637	73.66748	69.783497	75.262545	75.576733	76.439759	76.357754	72.56312	74.818907	77.201489	77.103641	75.061732	-2.888102	0.0255495
GPC6	71.787097	70.88343	67.554329	70.465714	74.213971	73.963964	75.482408	73.208272	73.776756	76.910949	74.841432	75.173591	-4.523775	0.0003631
GPNMB	55.45912	54.347826	41.961538	51.315789	68.638095	56.603774	57.725926	50.252632	60.853333	64.795455	63.616766	59.591195	-9.488579	0.0232788
GPR179	75.058394	80.542553	70.811111	74.737374	84.023438	80.018692	83.411765	82.666667	81.584158	79.661871	79.303371	81.07767	-6.181096	0.0033961
GPR35	76.160606	81.57868	80.21118	74.163743	73.857143	70.487047	75.365269	79.897143	70.689119	64.946996	73.742138	67.010563	6.0291249	0.0496921
GPR4	44.962567	46.258824	37.693069	42.565891	48.065359	46.258065	50.76129	54.535433	51.509615	42.647436	56.060606	52.970414	-7.48094	0.0169811
GPT2	73.869485	64.506211	70.871186	66.023188	71.6375	73.920765	71.816822	76.774611	76.122924	71.600368	70.012774	73.605136	-4.368845	0.0433517
GRAP2	63.974713	66.88587	62.17316	63.944954	69.899628	68.641221	69.305344	69.552	69.174377	73.934286	64.540909	68.20892	-4.912412	0.0074067
GRB2	70.520891	65.50625	74.854342	73.017094	77.432671	74.839142	78.160745	78.04698	73.802353	73.37013	74.601866	72.045326	-4.312757	0.0379917
GREB1	77.025271	77.780776	74.107452	78.623116	79.077892	80.509482	81.843689	77.266568	81.868759	83.301496	80	77.820244	-3.326863	0.0247049
GREB1L	74.958025	79.837209	79.794721	75.816558	82.090909	80.916782	81.333909	80.730919	82.741935	81.96679	79.449548	78.331947	-3.343714	0.0151518
GRID1	65.782848	66.967544	65.278276	68.247702	71.30423	71.277459	69.697442	70.676252	71.556388	73.757706	68.412806	71.908172	-4.504714	0.0006316
GRIK1	73.422246	70.931313	73.269598	71.564706	73.90795	75.903846	77.436189	72.727273	79.552023	79.322546	73.945082	77.264521	-3.960463	0.0166204
GRIK2	62.675214	59.854167	59.742291	61.520095	69.223361	61.281553	64.789474	63.218947	71.305221	67.783491	67.477092	65.657685	-5.394162	0.0111634
GRIK3	60.160747	56.4406	59.762673	59.020877	61.971454	60.948135	61.741734	59.991469	62.214227	65.013633	59.561753	62.698072	-2.921336	0.0183204
GRIK4	70.559957	70.028632	69.871073	69.945708	71.207252	71.887584	71.896552	70.535602	73.090789	76.201142	70.735414	72.104205	-2.105975	0.0475216
GRM3	65.927536	66.87766	51.106599	58.613636	73.849206	67.63285	69.987013	64.752988	72.471545	74.353659	70.517241	64.320482	-9.104265	0.0164389
GRM4	65.772755	61.199243	65.543011	63.617751	67.20227	66.801187	68.588855	65.772973	65.857293	67.441786	66.001334	68.974727	-3.046863	0.0092703
GRM8	66.975711	65.492288	67.090012	71.629183	68.897959	70.475728	69.50873	70.498317	72.518293	74.029388	70.204308	72.546336	-3.288083	0.0266869
GSK3A	59.560241	62.747826	59.840909	53.333333	76.855172	62.418803	73.17284	62.939394	73.936842	69.006757	72.88125	60.709845	-10.11954	0.0146094
GSK3B	81.362984	78.632768	81.085333	76.197605	91.038647	83.944573	87.912181	88.342222	78.023605	84.896259	84.118454	87.103208	-6.352721	0.0149352
GSTP1	53.538462	36	87.5	92.5	25	49.32	29.030303	46.590909	37.878788	28.02439	31.2	53.6	29.804067	0.0192429
GSTT4	77.941176	0	25	72.727273	90.47619	85.714286	85.714286	80.769231	64.583333	100	69.69697	81.666667	-38.41051	0.0200226
GTDC1	86.060137	87.260563	88.382436	89.393939	92.57337	90.267477	88.898148	88.447301	90.432225	91.193548	89.703755	90.984106	-2.538222	0.0121348
GTF2F2	87.753943	87.559006	87.726392	87.122112	90.865823	89.452381	89.575296	88.917051	90.72449	88.30303	88.677143	90.245059	-2.054671	0.0020043
GTF2H5	78.724138	69.886364	67.045455	64.40678	92.723404	78.486486	81.621118	77.97619	68.478261	82.308411	78.091503	78.458333	-9.75228	0.0356558
GTF2I	77.352542	79.451505	66.932249	68.408537	86.29484	81.997904	82.050633	79.293333	79.535417	76.127119	75.435105	79.932785	-7.047184	0.0285908

GTF3A	29.806122	19.886364	25.190476	19.38806	40.425926	32.53012	38.112245	33.084337	38.027027	32.787879	35.491071	38.663793	-12.57254	0.0002578
GTF3C1	89.619818	87.703226	89.525974	86.941399	91.980769	93.004862	91.425197	89.686047	92.244204	90.993687	89.889617	90.079176	-2.715341	0.005332
GTF3C4	49.447761	43.820225	58.108108	43.902439	75.773196	57.08046	73.760331	64.383562	48.165138	55.267606	63.096774	61.975728	-13.61822	0.0263745
GUCA1B	85.542553	82.709091	77.586207	85.034483	92.870968	89.444444	96.277778	85.333333	87.178571	93.26087	87.514851	91.369048	-7.688149	0.0065451
GULP1	58.447964	59.524	64.34413	57.572072	64.33218	65.838188	65.569853	61.210714	66.835913	66.646651	67.703097	66.475926	-5.604524	0.0031462
GXYLT2	64.941432	71.559524	66.391459	63.629508	67.258152	68.559271	71.922027	67.644377	74.939474	72.295405	72.839319	71.516637	-4.241352	0.0426505
GYG1	56.365741	42.982456	45.229008	46.962617	70.820755	66.922222	52.219388	64.618705	54.368794	62.389222	64.382222	62.663462	-14.41314	0.0031711
GYG2	74.71754	67.045455	72.512195	78.45614	78.034749	72.996504	79.183746	78.217241	77.552147	80.302439	76.169336	80.572391	-4.695737	0.0434489
H2AC14	25		0	10	0	0	0	0	0	0	0	2.5384615	11.349359	0.0206668
H2AC4	1.6571429	11.111111	7.6923077	0	0	0	3.2258065	0	0	0	0.9166667	0	4.5973313	0.0311776
H2AX	0.2869565	1.4705882	0	0	6.6666667	2.173913	2.2051282	5.2631579	2.6315789	3.2045455	1.49	0.4112903	-2.566399	0.0373646
H2BC1	77.777778	100	50	80	100		88.833333	100		100	100	100	-21.19444	0.036502
H2BC18	35.804688	25.571429	31.761468	26.282051	39.690476	45.070423	28.815126	45.361111	38.878788	34.12963	39.746032	42.354167	-9.40081	0.0167516
H3-2	34.287356	90.909091	85.714286	80	32.692308	42.647059	37.45614	50	18.181818	70.833333	18.759259	31.066667	35.02311	0.0181499
H3C10	0	0	0	0	4.1666667	8.3333333	8	0	6.8965517	5.7142857	0	5.2631579	-4.796749	0.0167576
H4C13	33.333333		71.052632	0	0	6.6666667	10	1.9230769	0	0	2.862069	4.9259259	31.498104	0.0233651
HABP4	66.968927	55.629344	64.764977	54.177083	66.767635	67.232759	73.366477	60.00813	72.160194	70.008902	71.408108	66.546729	-8.052284	0.0256244
HACD2	73.541311	68.687861	70.359606	73.797619	78	74.665	75.056213	83.429487	82.639024	76.003571	78.065163	79.486034	-6.821462	0.0046178
HBP1	69.124031	39.907895	59.186916	42.783784	69.406593	62.818182	70.29771	62.825581	77.840909	67.356061	79.977099	60.05291	-16.07122	0.0216782
HCN2	59.105717	60.944056	65.06814	67.807377	70.53405	67.018657	67.662704	67.368224	69.261569	73.2256	70.665552	63.027811	-5.364198	0.0258916
HCN4	58.568182	54.021858	50.165605	54.267442	60.607427	62.25	63.567288	57.025316	70.830275	54.310734	57.160535	64.27422	-6.997453	0.0370222
HDAC9	76.063001	76.126464	76.482109	75.956621	80.969183	77.07457	79.309572	78.310941	80.980153	80.112385	76.718954	81.219127	-3.179812	0.0062549
HDGFL3	48.210031	40.333333	49.349112	45.984293	52.90367	42.915493	61.570033	50.094828	53.584677	55.884984	59.536145	58.402597	-8.392361	0.0307845
HDLBP	73.21978	77.10992	73.375	71.277778	85.940631	79.661017	77.308075	79.233161	73.5625	76.595399	79.272381	77.410334	-4.877318	0.0345842
HEATR3	67.94958	67.6	55.327273	61.412587	81.608696	74.363014	73.798479	68.927602	70.510204	76.875	71.744409	63.705015	-9.619192	0.0179304
HECTD1	75.418033	74.313167	72.816993	70.038168	82.575145	77.699387	79.179181	76.064	84.408805	77.656036	80.820919	77.242765	-6.309189	0.0037432
HECTD2	63.516393	51.148515	61	59.807018	63.262136	63.253012	72.596491	63.705263	60.918367	76.205128	63.698347	67.222222	-7.489639	0.0453017
HECW1	74.13748	73.623274	73.703382	74.860511	76.543357	76.997504	78.355	74.075707	79.231907	77.228621	76.596282	76.333029	-2.839014	0.0053551
HEG1	74.456722	70.085821	72.659375	74.890208	79.084932	77.03966	73.508361	81.481728	83.92623	79.12	72.66893	77.685155	-5.041343	0.0346716
HEPACAM	78.666667	75	78.571429	56	81.944444	93.269231	76	87.652174	80	80.47619	80.887324	86.607143	-11.29504	0.033612
HERPUD2	51.966346	59.42069	46.251701	35.15625	52.267974	60.145455	62.532663	53.172662	58.715385	65.677778	68.176991	58.062016	-11.64512	0.0260753
HEXB	64.233918	68.318681	60.818182	44.35	61.980952	64.841379	71.935294	78.386139	66.649485	75.87156	68.738889	71.862245	-10.60305	0.0412856
HGF	74.902174	65.555556	69.672131	67.647059	76.705882	70.387755	81.410853	72.793651	81.972973	79.129032	71.751938	76.473282	-6.883941	0.0251388
HIF1A	57.769231	55.050505	51.282051	55.154762	57.745614	78.985507	66.170455	69.075269	75.698795	67.843972	56.745	63.472222	-12.15297	0.0142988
HIGD1B	87.3	88.64	84.222222	81.25	93.842105	97.368421	96.25	94.047619	90.294118	91.785714	86.130435	89.4	-7.036746	0.0097292
HINT3	40.461538	43.75	39.381818	29.411765	46.758065	46.270588	43.135802	46.268657	63.419355	43.781818	49.086207	54.512821	-10.90288	0.02224
HIRA	82.334437	77.82866	74.216867	76.638158	86.293103	77.039267	85.497487	83.733509	84.405	83.295938	80.088323	79.721986	-4.754796	0.0392165
HLA-DQB1	6.4516129		23.076923	0	75	46.153846	26.724138	66.666667	15.384615	35.365854	41.911765	68.292683	-37.0946	0.0211797
HLCS	86.501245	82.361508	86.197789	82.390403	88.740598	86.413859	87.292909	87.601427	89.14099	87.882813	86.209344	86.172037	-3.069011	0.0098209
HMGN3	63.29703	47.253731	43.103448	34.375	62.337662	49.981481	62.252336	56.936709	63.913043	71.337209	58.141844	68.304348	-14.64328	0.0204071
HMSD	47.116279	47.571429	56.823529	64.516129	67	65.517241	73.526316	70.416667	95.666667	75	59.382979	67.857143	-17.78903	0.0166596
HNRNPA1	6.3846154	2.7777778	14.516129	7.8947368	7.7222222	16.189189	11.735849	17.647059	18.75	15.237288	16.333333	19.090909	-7.444916	0.0159045
HNRNPC	62.493548	55.125874	69.532995	62.680672	74.342857	73.447964	72.696319	77.977064	71.952607	75.792531	70.776758	73.702624	-11.37782	0.0005575
HNRNPL	51.891192	58.839506	56.466019	44.752809	67.126984	61.8	63.784173	75.942857	51.518248	75.909091	58.671141	65.650538	-12.063	0.028422
HNRNPUL	37.401869	32.773109	32.404762	40.910569	47.246835	39.33908	44.755459	48.816901	39.052288	36.740741	42.471861	49.016393	-7.557368	0.0219548
HORMAD1	85.505155	90.465116	78.421053	87.804878	94	88.235294	92.116279	88.059701	88.755556	91.341772	90.58	88.362205	-4.6323	0.0485854
HOXC13	10.240964	8.9552239	7.3181818	12.348214	21.677419	16.847826	20.340278	18.92233	10.745614	12.815789	21.205882	13.4	-7.278746	0.0094156
HP1BP3	54.014337	53.845161	54.285714	52.083333	63.837209	82.9125	76.096085	73.756906	64	64.714286	71.319885	75.677711	-17.98219	0.0004983
HPCAL4	57.84507	50.816667	67.857143	56.45	48.579439	43.819149	47.818182	52.463636	49.451613	49.482456	55.172131	43.985075	9.3957598	0.0124787
HPF1	80.118812	59.42029	64.754098	64.40678	83.881579	92.647059	76.913462	71.939024	93.833333	81.703297	72.321429	71.312	-13.3939	0.0360587
HPRT1	62.473404	64.347222	50.934579	71.923077	77.178947	75.990566	70.888889	72.466667	68.487805	85.675676	66.368421	66.901316	-10.57522	0.037543
HPSE2	66.826061	68.621965	63.820623	65.209696	72.102852	65.586276	70.152581	67.886364	69.579407	72.003661	67.782323	71.366175	-3.437869	0.0317808
HPX	76.830508	84.242424	86.904762	79.028571	83.653061	90.625	90.245283	90.25	88	88.578947	82.106061	84.605263	-5.506385	0.0384661
HRK	49.264925	35.707602	38.345	29.778261	45.106481	46.642487	49.098291	52.053691	39.661765	44.341297	49.361345	46.124638	-8.274802	0.033004
HS3ST3A1	64.430063	60.953901	57.953271	59.142857	62.638037	68.45509	65.748387	65.114883	73.810198	72.859833	64.910377	69.161808	-7.217304	0.0092432
HS3ST4	68.977317	67.579384	67.786571	70.190683	71.948405	70.463343	67.499088	70.437008	73.455605	73.547435	70.992668	74.479535	-2.969397	0.0355093
HS3ST5	61.538462	50	52.777778	77.777778	100	95.142857	80.555556	80	87.5	88.833333	72.222222	91.064516	-26.39131	0.00172
HSBP1L1	51.8	62.826087	49.583333	49.346154	76.769231	66.835443	63.3125	55.357143	60.590909	71.952941	58.793814	67.576471	-11.75966	0.0190366
HSD17B1	49.16129	50.943396	59.183673	18.794872	17.592593	34.615385	29.854167	21.103896	21.428571	26.315789	40	35.955056	16.162626	0.0494481
HSD17B10	49.204082	36.363636	30	44.041667	47.966667	61.171429	46.545455	52.717391	44.117647	55.83871	60.058824	45.333333	-11.81634	0.0243448
HSF5	65.665574	66.252632	61.09901	58.900524	77.106061	72.567347	74.477341	66.656085	77.22807	71.284644	75.643068	73.262136	-10.54866	0.0006164
HSPA6	30.253521	22.704918	22.092593	25.488889	52.83871	36.394737	28.716418	36.489796	33.1	24.409091	33.653333	39.352941	-10.4844	0.0415693
HSPB11	68.223022	52.39726	70.512821	59.756098	74.763889	72.371795	90.384615	83.71875	62.261682	81.663717	66.955752	75.931298	-13.28414	0.0348259
HTR1A	38.242991	27.692308	38.768116	34.882353	16.902778	22.580645	23.727273	27.763441	36.1	12.428571	17.419048	30.659794	11.448748	0.0257163
HTR4	61.832845	60	63.187817	61.063927	63.184426	63.278607	69.199495	65.4	66.884211	67.864048	63.75	67.983645	-4.421907	0.0065375
HTRA1	65.984348	65.085627	64.361635	62.81459	66.44686	71.329897	62.912521	72.977465	69.585434	67.679764	70.870403	68.445131	-4.219385	0.0312371
HTT	85.435447	86.353731	84.530641	84.483501	87.307095	90.595634	88.81295	86.183973	87.620187	86.381363	86.687117	85.630435	-2.201514	0.0317414
HUNK	65.831384	68.053082	67.317869	68.761246	72.503927	72.944179	74.382664	68.174037	69.728129	71.666667	71.822796	70.71313	-4.001046	0.0040631
HUS1B	90.5625	100	90	93.333333	98.046512	100	94.871795	97.619048	96.428571	98.285714	100	100	-4.682497	0.027143
HVCN1	82.817869	78.518248	90.601504	80.695946	79.307317	72.807882	77.808594	78.29064	80.133333	78.376344	81.143791	76.144144	5.1568861	0.0415985
IBSP	78.947368	75	94.117647	91.666667	73.529412	66.666667	80.972222	80	72.727273	67.5	74.315789	78.125	10.703375	0.0280014
ICAM2	85.122807	75.803922	79.16	82.346154	68.414634	77.104651	72.805085	70.878049	75.306667	60.869565	70.893204	65.890756	10.337894	0.0061808
IDS	69.629032	65.333333	48.418919	61.585938	75.387755	69.196721	65.656489	74.294574	76.081967	80.146067	73.58046	60.387597	-10.59965	0.0397597
IFNL3	72.4	0	57.142857	73.076923		75.636364	86.842105	100	87.684211	73.75	80.5	82.758621	-33.22667	0.0339178
IFT22	62.171975	60.679487	67.696203	57.526882	62.404762	65.194444	78.779762	62.715517	80.204301	84.581395	86.681481	75.869048	-12.5352	0.0374482
IGF2BP3	68.70362	72.709957	70.009921	66.887129	74.256324	70.203971	75.226438	70.48289	74.050903	72.972074	73.215943	70.658485	-3.055722	0.0391322
IGFBP3	31.438889	26.376812	17.854545	25.24	38.165217	32.098039	28.795775	29.613208	26.9	27.630252	36.774194	34.5	-6.582024	0.0457322
IGFBP6	58.326087	51.137931	35.714286	62.5	40.266667	40.104167	36.368421	41.384615	31.730769	34.428571	39.875	44.373333	13.353133	0.0136825
IGFBP7	61.982673	54.815789	58.706422	62.313636	65.623016	64.545833	68.569832	63.608108	65.685484	68.25	62.382567	67.90393	-6.366466	0.0032014
IKBIP	62.761905	60.59322	49.206349	49.431818	72.923077	75	77.785124	65.943396	63.607595	70.153061	69.480263	64.075758	-14.37271	0.0024608
IKZF2	75.030303	64.734375	72.123894	67.24	81.711538	86.803922	75.508876	78.705882	81.902985	78.952663	72.798246	77.25	-9.422121	0.0058891
IKZF3	76.62954	74.373444	76.57874	73.027668	83.915493	79.884956	80.901408	77.188356	82.820669	82.443099	74.521401	75.57393	-4.503816	0.0390156
IKZF5	45.3125	19.439394	50.684932	25	57.728571	56.097561	57.375	43.589744	57.692308	57.341772	56.565657	49.777778	-19.41184	0.0070023
IL12B	86.217391	96.875	100	92.592593	87.096774	73.214286	84.52381	82.608696	81.25	75.862069	72.6	82.8	13.926792	0.0022389
IL12RB2	71.414925	60.969849	71.982249	72.467662	82.319838	69.982014	76.765281	77.573276	74.996337	79.909938	74.520885	72.394472	-6.849084	0.031981
IL17RC	60.114943	37.826087	60.631068	56.330275	56.580247	71.829787	69.673203	61.635135	59.431818	63.154321	66.637427	65.589286	-10.59081	0.0392736
IL1A	62.5	70.833333	81.25	79.166667	92.1875	86.666667	90.481481	67.733333	93.333333	85.076923	84.529412	83.952381	-12.05763	0.0371582

IL1R1	64.058201	60.9375	49.8	56.950413	70.518182	78.704082	72.771084	66.07563	64.55303	71.661765	62.433962	67.549451	-11.34687	0.0072572
IL1RL2	64.185484	59.686391	59.327586	74.264706	77.402439	67.952096	72.473333	83.905325	77.886076	73.571429	68.148855	71.128205	-9.692428	0.0235285
IL22RA2	85.9	72.222222	72.622951	74.358974	85.7375	83.086957	85.845528	86.388889	80.924242	81.86	83.045455	83.96124	-7.58019	0.0102266
IL31RA	81.821101	77.700637	74.166667	78.518519	80.070922	86.222892	88.060377	87.779762	80.460674	81.974874	80.70903	87.684039	-6.068591	0.0175305
IL36B	77.231481	75	72.027027	78.846154	83.88764	84.338462	78.409091	86.1875	82.768293	85.45977	83.089286	81.340426	-7.408893	0.0009521
ILF2	52.064516	48.611111	32.857143	41.37931	60.025641	49.964286	65.097222	58.288462	64.625	69.235294	71.981132	62.758621	-19.01894	0.0017989
IMPA1	71.544118	67.592593	80.971831	74.264706	68.75	71.917808	69.5625	62.328767	70.394737	68.740385	67.185714	64.617391	5.656149	0.0457108
IMPACT	50.209677	51.538462	45.014925	56.985294	61.445783	58.241758	73.055556	62.028986	65.253012	54.117647	82.626168	61.503704	-13.84699	0.0183411
IMPG1	66.862687	65.229167	72.017751	68.787879	74.045455	71.581818	74.244156	70.829167	68.660633	75.401316	71.707022	74.714976	-4.423697	0.0165148
INAFM2	6.6666667	35.714286	30	12.068966	6.0606061	4.4776119	2.3380282	20.588235	8.8235294	3.5714286	8.6538462	8.045977	13.292572	0.0365504
INCA1	61.789474	45.350515	53.938144	61.47541	69.666667	62.068966	64.711864	77.868852	74.267442	72.217949	67.833333	64.807407	-13.54192	0.005066
INHBA	43.038462	38.575758	54.651163	28.846154	55.081967	50.810811	54.320513	45.660377	48.214286	45.409836	51.951456	51.847826	-9.13425	0.0478466
INHBB	32.80663	26.5625	17.910448	8.376	39.195122	31.695652	35.841808	23.633929	35.947368	32.521277	39	36.278261	-12.85028	0.0153651
INVS	87.816879	86.245421	88.371212	86.163701	92.237668	87.406077	90.837838	91.346995	95.398515	89.470032	89.401099	88.084795	-3.373574	0.0324002
IQCM	73.326923	74.826772	68.484076	74.328	76.404558	75.114815	73.304264	75.649518	76.49734	74.131387	76.797101	79.794913	-3.220294	0.0445173
IRF4	33.341808	32.009302	28.172775	29.804545	39.798354	43.147321	46.698745	32.57561	37.032432	36.37037	36.421725	37.53169	-7.864923	0.0082478
ISCA1	39.131579	16.549296	30.508475	42.156863	52.857143	34.375	44.260417	41.780822	37.5	45.622951	47.8	46.780702	-11.78558	0.0367093
ISCU	9.7733333	8.7719298	9.9298246	9.0526316	17.391304	12.3	12.205882	17	12.5	14.022472	17.6	14.132743	-5.26212	0.0014986
ISM1	61.570526	63.196721	61	55.583969	65.236422	66.720588	74.799539	62.141914	65.565217	68.916462	67.698795	66.058708	-6.804402	0.0109793
ISX	69.587629	63.227273	68.956522	66.893939	71.113636	74.3375	72.820225	74.343284	68.714286	75.65	74.081818	73.311475	-5.880187	0.0026404
ITFG2	67.066225	60.447761	68.572917	70.064516	76.516129	69.835294	79.779528	77.760684	68.704082	73.661017	67.039216	72.462963	-6.682009	0.0345905
ITGA1	63.662162	53.908088	55.345528	57.480519	59.854015	67.121622	72.114144	57.143939	65.447273	67.415094	66.450304	64.058568	-7.351545	0.0250072
ITGA3	62.013228	64.05	62.630058	57.849206	72.444444	65.545064	60.946746	70.953069	80.17004	67.858357	66.113703	69.846547	-7.599123	0.0320118
ITGA8	72.734633	66.113314	70.12037	61.433604	69.704501	76.510101	71.828496	73.721739	73.964706	75.630573	70.90711	73.393424	-5.607101	0.0201329
ITGA9	69.126787	71.3975	68.539192	70.198901	71.699899	73.268475	72.389776	69.629344	72.204082	73.226131	70.659944	74.087797	-2.330086	0.0220371
ITGB6	76.177419	76.867188	79.925926	79.627586	82	85	79.794118	83.02649	81	83.84375	80	83.823741	-4.161483	0.0053111
ITIH4	83.547264	84.320755	79.142857	86.553191	88.951389	85.856164	85.46729	87.664	86.873333	89.259259	88.619289	89.965686	-4.441035	0.0078044
ITM2A	27.777778		42.857143	46.428571	26.315789	5	20	17.857143	0	14.285714	26.5625	7.4074074	24.342595	0.0053148
ITPK1	83.917238	81.177016	79.817267	81.739348	85.309091	82.26959	85.649949	85.776462	84.27385	83.969132	82.262899	83.8407	-2.506242	0.0206054
JADE3	71.087935	62.735849	67.314607	62.469027	70.269504	71.856061	73.967742	72.834459	73.663102	65.029316	73.226937	72.115068	-5.718419	0.0183014
JAG2	71.838068	65.723464	70.360963	73.294872	79.421053	75.796499	75.227656	77.502646	70.548077	79.873118	71.485671	83.103571	-6.315445	0.0272602
JAK2	84.87234	80.616949	85.876106	81.555102	84.666667	88.509804	88.848101	86.6	91.119658	83.657343	86.405204	91.146474	-4.389032	0.024394
JAZF1	79.005084	80.167421	83.18775	79.963415	83.353846	85.015892	83.761801	86.229268	85.083426	82.999112	83.478846	84.244194	-3.689881	0.0012103
JCAD	64.956298	60.318182	58.614173	51.491429	64.208459	60.606838	68.892308	66.848361	70.838188	63.267813	65.914661	60.388119	-6.275573	0.0410887
JMY	61.22963	61.335106	60.654028	60.280374	64.662116	68.498099	71.169374	69.397683	57.248252	70.201183	66.612371	65.470183	-5.782623	0.0294856
JOSD1	47.008065	56.25	68.478261	38.669903	75.757576	71.16092	65.228188	66.14433	77.759259	71.280822	51.401361	70.537931	-16.05724	0.0230518
JPH2	66.402385	61.549598	65.997283	66.757746	71.479125	68.808153	69.328173	67.171053	70.275789	68.255282	64.428786	70.691375	-3.627964	0.0278443
JPT1	59.476852	42.333333	44.170543	49.145299	65.175676	62.611111	56.493023	61.314815	63.705882	61.728261	57.473451	63.893401	-12.76795	0.0017702
JPT2	76.014184	79.482955	88.461538	92.217391	74.757732	83.505747	79.336134	70.187755	78.527363	71.460177	77.258278	76.893293	7.5532072	0.0485865
JRKL	8.2580645	4.5454545	5.0769231	19.55	14.285714	33.333333	31.277778	5.3333333	30.928571	20.333333	23.2	22.235294	-13.25831	0.0341117
JUP	70.877506	70.400901	66.887805	60.146341	68.113402	75.719243	71.22488	69.080292	76.74902	72.877841	72.762637	70.951754	-5.106745	0.0475018
KALRN	70.732699	71.876471	70.801294	71.556391	73.73099	74.224194	73.596483	70.502235	76.544148	76.975637	74.386573	76.852317	-3.359858	0.0141138
KAT6A	61.401186	43.164557	64.763514	58.218254	67.045714	62.79096	65.718638	71.371429	76.863222	64.954128	70.043406	73.868601	-12.19513	0.0128463
KAZN	71.376698	74.090226	73.881963	72.620863	74.821282	73.804855	74.937671	73.651845	75.656308	77.583876	74.643392	74.753397	-1.98914	0.0254048
KBTBD6	46.666667	75	68	96	62.612903	57.55814	52.372549	44.117647	51.263158	58.823529	39.974359	44.422222	20.023603	0.0307684
KCNA3	4.7142857	1.0638298	6.1551724	6.1764706	7.755814	4.3970588	21.988889	13.157895	8.8604651	24.360465	14.945055	19.624113	-9.85878	0.0256953
KCNA4	42.8	38.302326	37.837838	36.842105	46.634615	50	39.565217	42.803922	53.459459	39.354839	52.901639	42.242857	-6.924751	0.0473702
KCNC1	68.995399	64.573379	68.986207	66.138554	68.668258	69.594037	71.641711	73.082447	72.604046	72.459574	71.661972	74.035714	-4.545085	0.0031212
KCNC3	38.668675	24.361991	36.813559	30.730594	50.723404	39.165	43.266409	37.626794	37.788991	38.313253	37.686567	41.542955	-8.120467	0.0284663
KCND3	66.475113	69.663139	65.252269	71.611557	72.217753	73.029006	72.833333	72.93904	74.325161	75.762431	69.459879	72.121212	-4.585457	0.0067913
KCNE1	73.872093	70.102941	55.494681	77.026882	78.539906	79.799087	76.729904	77.25	84.855204	79.488806	74.800539	75.442105	-9.239045	0.0274853
KCNF1	47.019108	18.903846	27.777778	49.230769	89.096154	57.670455	52.808989	74.107143	44.642857	52.873563	48.058252	53.083333	-23.30972	0.0288726
KCNG3	57.092437	52.319527	57.387387	51.372294	77.330144	60.293173	70.747573	71.018182	54.5	57.565359	63.167102	64.408551	-10.33585	0.029447
KCNH8	75.17377	73.084548	65.455172	69.924812	77.159737	73.882514	75.406855	72.033654	77.247956	75.834725	75.053009	78.131687	-4.684191	0.0229543
KCNJ10	66.675532	65.713043	62.918605	64.91129	73.598291	69.211009	67.736842	64.81203	76.345588	72.120482	68.041451	66.49505	-4.740475	0.0446506
KCNJ11	83.795181	92.857143	88.75	83.64	83.962264	82.5	81.125	71.1875	84.382979	80.519231	84.815789	78.567568	6.3780396	0.0413035
KCNK13	68.099213	70.559633	74.086207	68.184818	79.765487	73.937677	72.818182	71.731884	73.609572	77.531418	76.186418	71.572877	-4.411722	0.0317874
KCNK3	57.171779	57.587045	57.052419	61.003484	59.532423	65.40367	64.095794	62.225256	65.907051	69.099757	63.073059	64.407708	-6.014408	0.003355
KCNK9	71.787952	65.289544	67.54717	68.017738	69.622296	74.914683	72.09335	70.858209	75.505618	71.0288	70.992405	72.601212	-4.041471	0.0156447
KCNMA1	70.784261	72.040134	70.348081	71.005245	74.059381	73.194488	74.745521	71.708152	75.578521	78.704912	72.494949	75.71825	-3.481092	0.0130943
KCNN2	52.710811	38.448276	42.195349	48.989637	61.666667	62.534247	57.576037	49.101504	60.037815	68.016949	58.240476	56.084091	-13.5712	0.0033452
KCNN3	73.413843	72.828297	73.327785	73.801299	77.165347	77.320888	78.160622	72.739712	76.698174	76.149502	75.555247	75.467688	-2.814342	0.0083378
KCNQ1	79.003631	76.105286	78.915007	76.777564	81.123116	80.390041	79.987271	78.219105	79.890921	79.01972	77.610141	79.797784	-1.804391	0.0416617
KCNQ3	66.261053	71.189944	59.138927	66.594022	74.584648	70.043133	71.19225	67.508056	74.072645	73.826192	70.459615	72.266284	-5.948116	0.0168887
KCNQ5	76.426567	72.281713	78.4687	75.324675	77.932484	75.677989	83.961921	81.259459	80.973088	79.68867	78.336627	79.304913	-4.01648	0.0263659
KCTD11	24.304348	53.5	25	32.142857	75	49.972973	58.421053	74.571429	50	31.914894	64.044444	43.235294	-22.15821	0.0332385
KCTD16	68.578571	68.204082	73.744745	73.44186	77.187354	73.988439	75.728707	74.230392	78.60794	77.217391	73.841746	74.755319	-4.702347	0.0062415
KCTD17	66.314815	64	52.988764	68.216981	88.9375	82.886364	71.258278	74.511364	81.747368	89.260504	82.622517	81.50641	-18.71115	0.000767
KCTD21	62.308725	81.875	68.45098	70.886076	82.349057	80.19469	77.161017	83.645161	79.777778	81.115385	74.083333	72.868852	-8.019214	0.0390996
KCTD5	81.06181	74.962963	69.982906	73.522727	79.39322	77.009615	77.786996	82.572881	85.746875	77.222222	83.348786	80.584222	-5.575501	0.0329075
KDM2B	73.520371	67.02963	70.893358	68.986968	79.289713	76.55681	77.002185	77.973015	73.291728	72.385505	74.700902	74.090341	-5.553693	0.004934
KDM7A	56.905782	56.25	54.692557	60.310502	67.91791	64.526316	72.13217	60.255102	63.225131	63.713918	70.716814	72.148889	-9.789821	0.0025721
KDR	58.430493	50.348315	52.727273	53.619048	58.511111	59.739837	69.151961	62.655172	68.4	62.006061	65.220183	64.990991	-10.05313	0.0012558
KDSR	62.694656	54.528662	64.931298	59.282209	63.705426	64.760563	77.846561	70	79.425	71.218341	68.129151	66.786822	-9.874777	0.0139333
KHDRBS3	68.257603	60.701887	64.517808	59.511561	75.189616	61.944444	74.610909	71.139881	68.48037	76.887064	70.230014	74.972519	-8.434637	0.0137737
KHNYN	53.295597	41.106667	45.3125	31.372549	75.568966	76.363636	67.452381	53.314286	65.131579	62.823529	52.122642	54.086207	-20.58607	0.0053506
KIAA0825	83.649764	81.604563	83.013889	78.032751	83.730519	86.703911	87.320988	82.641221	85.587276	87.325123	86.098317	84.245902	-3.881415	0.0101687
KIAA1191	64.653333	54.878049	43.75	51.587302	62.944444	73.719512	65.364238	71.696429	71.128	68.155039	74.160305	75.109195	-16.56747	0.0011299
KIAA1211I	71.551556	58.094545	67.368512	68.440184	70.34713	72.302013	72.154827	69.627451	75.871387	74.471175	73.478714	71.334252	-6.084669	0.0207217
KIAA1257	68.885535	63.964835	69.291572	63.143167	75.52459	78.621622	72.024675	69.610902	73.269663	71.256894	69.8125	65.332948	-5.610447	0.0366151
KIF19	68.309693	63.637427	63.22905	58.778261	67.681481	71.189286	69.260526	69.062201	73.040441	73.104956	67.87395	71.229665	-6.816706	0.002567
KIF23	58.421965	47.619048	48.883333	59.405941	53.992	69.6875	69.547264	51.475	64.804054	66.6125	66.619718	64.797101	-9.85932	0.0369052
KIF3B	80.168	65.904762	67.429825	68.81592	76.527675	82.521186	78.755882	75.390947	76.334483	80.430939	77.636591	80.105398	-7.883261	0.0105541
KIF5A	73.678808	77.75974	78.406061	75.955975	81.855615	84.539474	80.29595	80.25	79.19774	80.415525	80.219269	79.09375	-4.283269	0.0038707
KIR3DL2	61.190476	72.727273	63.166667	70.588235	73.684211	71.851852	81.111111	72.190476	71.25	71.666667	73.923077	90	-8.791511	0.0461881
KIRREL3	69.174222	71.047185	70.428351	70.240353	72.31163	71.681408	73.211876	71.289849	74.947958	75.434328	72.033289	73.1778	-2.788489	0.0065068
KLC1	82.319497	79.990099	81.390863	79.12529	83.148897	87.918251	84.804816	84.227545	81.641283	83.608759	84.582487	83.421801	-3.462793	0.007756

KLF12	84.404689	82.100806	82.887603	80.97351	87.566761	88.47	84.48087	84.454248	86.98419	86.245919	83.761689	85.027823	-3.282285	0.007982
KLF13	48.131902	42.688144	45.736041	39.595908	62.347032	56.308351	53.544304	58.15445	59.293814	56.332645	50.119822	57.605926	-12.67529	0.0002256
KLF3	55.215768	53.125	51.772059	69.836957	76.927536	63.985401	74.116022	65.79021	72.135484	64.108696	68.701299	58.124542	-10.4987	0.0325188
KLF5	27.970588	21.973451	29.569892	25.362319	29.368421	36.407767	43.113475	45.684211	27.59596	35.669903	27.207071	43.156977	-9.80641	0.0331915
KLHDC7A	78.345865	61.261538	57.735294	71.111111	81.97619	67.716981	76.087719	75.916667	81.324561	79.326923	74.740458	76.301075	-9.56037	0.0342736
KLHL1	66.909434	67.682927	69.049834	65.449799	74.383292	72.63125	69.587413	70.82716	75.712794	72.8	72.357585	75.623987	-5.717437	0.0008749
KLHL14	41.891641	45.585492	46.676923	44.135678	48.234818	46.550505	52.736301	44.060976	49.75502	51.895765	51.997403	52.605598	-5.157115	0.0158913
KLHL17	57.263158	54.6875	61.363636	59.183673	80.381679	65.714286	72.360406	80.964706	85.60177	68.05042	62.425	56.128571	-13.32886	0.0312885
KLHL21	44.02069	29.313725	31.479532	39.433071	37.309524	46.797297	45.400722	48.873626	46.842105	48.677249	40.653731	41.176471	-8.404586	0.0240451
KLHL22	76.82495	79.022989	70.805921	67.437086	77.613941	84.8	79.847953	85.223404	80.564356	74.62037	78.550296	84.97053	-7.25112	0.0224635
KLHL24	62.170732	49.166667	71.825397	50.471429	69.994975	67.686275	71.816254	75.379679	64.009756	76.876106	68.212209	61.061728	-10.97107	0.0354197
KLHL35	35.504167	16.121795	23.888889	34.856209	51.053763	43.328042	39.291667	35.813559	45.27619	42.404959	30.852632	36.662651	-12.99267	0.0160078
KLK15	64.830189	75.901961	63.7	72.966292	69	82.28	73.957895	78.934783	79.09589	76.727273	74.712766	75.453608	-6.920666	0.0370826
KLK6	66.634783	56.530612	61.984848	60.8	66.2	68.454545	68.734043	63.6875	60.576471	73.106195	68.427481	67.356522	-5.580284	0.0400088
KLRC3	55.5	66.666667	0	57.142857	80	62.5	88.214286	75	50	87.818182	85.428571	85.714286	-32.00703	0.0272643
KMT2B	79.363636	73.1	83.358586	69.008032	82.446735	85.205128	86.704082	87.769737	77.371951	78.465116	85.945946	82.417266	-7.083182	0.0348772
KMT5C	76.449198	68.423529	54.728395	64.935065	76.308271	71.186441	76.739726	84.211538	81.134021	83.081633	80.846154	65.459302	-11.23684	0.0304192
KNG1	85.148515	84.177215	82.729412	82.272727	88.605634	87.746988	84	83.886364	86.377358	86.810526	83.852564	87.988506	-2.576525	0.0423423
KRIT1	64.285714	58.333333	58.730159	71.428571	67.505051	73.809524	82.556338	61.333333	78.803738	72.849558	83.609589	71.975	-10.86082	0.0322476
KRT19	42.329032	37.333333	44.923913	35.030303	42.57377	51.148649	54.037383	58.789474	62.135922	42.626168	49.15748	47.544304	-11.0975	0.0180397
KRT23	83.253968	70.037037	70	65.82	92.837838	83.333333	82.466667	82.857143	77.459459	84.813559	80.087719	76.60241	-10.27951	0.0178003
KRT6A	75.27451	78.727273	67.3	67.533333	81.242424	75	81.954545	76.171429	73.076923	91.243902	78.34375	85.707317	-8.133757	0.0490028
KRT82	75.024194	71.65	73.283784	74.171429	84.302632	71.916667	78.342593	79.296703	77.792683	91.146067	81.419643	79.284553	-6.905341	0.0382464
KRTAP10-	42	28.125	33.903226	27.607143	77.75	40.043478	41.903226	52.84375	49.344828	54.714286	58.423077	46.15	-19.73774	0.0126279
KRTAP10-	85.514286	89.190476	93.619048	84.407407	90.9375	78	86.387097	70.333333	68.086957	82.068966	75.222222	70.5	10.490795	0.0398822
KRTAP1-4	77.272727	40	0	90	100		83.333333	80	100	100	100	77.777778	-39.76912	0.0316014
KRTAP4-3	55.909091	41.666667		60	80	66.666667	100	85.714286	95	73	63	68.545455	-26.46555	0.013867
KRTAP5-4	40	50	50	0	100	50	62	66.666667	100	66.666667	100	83.333333	-43.58333	0.007187
KRTAP9-3	50			0		100	100					83	-69.33333	0.0405382
L3MBTL3	50.042918	42.024691	55.442804	42.351974	58.230496	49.812721	68.419437	55.858407	56.658307	59.861035	70.579952	61.877847	-12.69668	0.0112568
LARGE1	74.74755	77.70457	76.24451	76.11294	78.593443	78.647905	78.971705	77.735247	81.1759	81.955352	77.430622	79.007562	-2.987324	0.0080785
LAX1	77.098901	72.305556	77.777778	75.763636	82.181818	87.444444	78.492063	78.140625	77.45614	80.454545	80.636364	78.921348	-4.729451	0.0278283
LCE1E	48	0	45.75	33.333333	80	58.25	55.833333	50	50	62.5	53.333333	48.5	-25.53125	0.0187662
LCE2A	75.375	0	50	0	66.6	88.833333	50	66.666667	100	87.5	52.285714	87.818182	-43.61924	0.0201944
LCK	75.676056	66.535032	71.822086	68.211111	77.140496	76.385417	74.388158	71.857143	74.450237	79.298969	76.152027	71.657303	-4.605147	0.0366302
LCORL	61.072581	72.360248	67.245	62.217778	75.075099	80.027933	75.119048	77.073171	88.730337	75.548287	77.90085	63.791284	-10.93435	0.0192504
LDAH	77.990683	78.527607	78.01227	84.10596	85.919811	84.566327	82.704188	84.205	84.036885	81.40636	80.722955	82.822751	-3.638905	0.020995
LDHAL6B	93.181818	92.307692	100	100	93.333333	88.888889	88.235294	83.333333	80	92.307692	91.666667	66.666667	10.818393	0.0468165
LDLRAD3	73.247525	69.441828	73.336182	72.377622	74.274725	77.82392	72.810924	74.56962	77.89445	79.429655	75.329861	77.021181	-4.043503	0.0111298
LEPR	64.528713	71.74031	63.365782	71.76087	76.053073	71.992593	74.314338	71.403279	75.132716	72.245727	79.540187	77.43705	-6.915952	0.0083445
LEPROT	47.689655	44.815789	43.103448	42.915254	47.148936	61.229508	64.857143	57.7	69.351351	51.164384	65.45098	61.333333	-15.14842	0.0030672
LHFPL2	67.067217	64.513953	63.648822	65.433145	67.375602	69.200723	69.460455	66.932584	67.905449	66.933239	68.519092	68.070409	-2.88391	0.0020009
LHX2	18.849398	15.295082	17.32	20.234323	26.132743	21.464646	22.820455	24.371429	25.728571	19.28496	20.453961	23.847926	-5.088386	0.0056195
LIM2	83.671233	82.12766	70.828571	85.354167	87.72	88.72549	85.135135	85.808511	87.951613	85.75	89.680556	84.902439	-6.46381	0.0221124
LIMCH1	67.74382	73.336406	68.156489	67.434389	79.114478	78.992537	71.956604	74.769461	82.322581	83.017767	72.828829	76.330948	-8.248875	0.0051934
LINS1	51.114286	58.208955	47.101449	52.61194	67.818182	54.883721	64.605042	68.155844	77.301205	70.78	66.059259	72.547826	-15.50973	0.0018569
LIPH	78.11194	78.343373	80.833333	80.248485	79.621495	83.708791	82.041379	84.163636	83.241071	83.849817	83.055556	82.748485	-3.419496	0.0028598
LIX1L	69.871345	69.915663	72.910714	72.972973	80.138298	75	75.714286	77.554455	76.258824	72.827586	75.193939	75.361842	-4.58848	0.0041377
LOC10099	90.97561	83.3125	91.666667	100	88.888889	77.5	74.055556	80	76.833333	82.142857	70.588235	89.354839	11.56823	0.0183666
LOC10272	62.497268	53.180952	42.5	52.819149	65.377551	66.023256	63.778351	52.715447	79.396226	66.546053	62.423645	62.323009	-12.0736	0.0266986
LOC11257	74.625	50	60	62.068966	65	75	67.783784	74.863636	90.625	77.75	74.219512	79.611111	-13.93314	0.0237534
LOC11269	44.104938	41.222222	47.311475	38.86802	42.042056	53.705882	49.262172	51.047368	49.514124	48.095941	45.957929	48.496575	-5.638592	0.0255974
LOC28489	71.90625	73.170732	51.785714	63.678571	71.636364	78.948718	82.319149	79.651163	78.325581	84.225	75.983333	76.87037	-13.35964	0.0060428
LOC38881	82	81.1	76.93617	79.6875	90.677966	82.075	83.532468	87.777778	85.107143	87.162162	86.904762	87.184466	-6.3718	0.0021934
LOXHD1	71.657635	73.483092	73.086168	75.123894	77.45229	73.836634	76.01107	74.820144	78.644483	76.809798	74.489796	76.687006	-2.756205	0.0166959
LOXL2	77.244919	75.176471	71.528972	73.688013	79.680157	78.564842	80.892125	80.619874	81.157321	80.070499	75.221367	77.806324	-4.84197	0.0040079
LOXL3	54.293651	53.825397	52.670968	49.480315	56.195876	62.741758	60.947368	68.503597	59.363057	62.409524	59.284404	61.510121	-8.801881	0.0011936
LPAR1	61.824324	51.671937	60.768116	61.575221	70.992982	59.014493	64.359408	68.907063	64.729231	67.796875	64.28629	63.014957	-6.427763	0.0290701
LPAR2	65.738095	46.710526	69.773333	64.40678	74.59375	70.714286	68.021277	67.444444	78.527778	77.829787	65.866071	73.72043	-10.43254	0.0330824
LPCAT1	80.587072	74.661312	79.041118	80.535865	79.776808	80.519065	81.323897	81.81829	83.29602	84.033822	80.603517	80.120843	-2.730191	0.0493033
LRCOL1	58.120603	38.372093	37.168539	41.218391	60.284768	63.020619	48.579882	65.47619	56.481132	50.162602	51.635135	55.073529	-12.61933	0.0195757
LRFN2	69.97012	70.632727	71.482828	74.108772	76.360947	72.911302	73.753623	75.299373	75.174051	75.45645	71.490978	72.540468	-2.574787	0.0360958
LRIG3	56.705584	49.015267	54.134615	48.981707	71.45045	59.211429	62.777778	57.704348	55.209677	65.242647	53.388664	67.708333	-9.377372	0.0224774
LRMDA	73.272088	74.226667	73.40613	74.82387	75.300792	76.63443	76.387269	72.616758	77.860065	80.742867	76.121506	79.333154	-2.942416	0.0470461
LRMP	82.462069	92.089744	82.352941	89.855072	70.402299	78.357143	81.206897	82.69697	81.582524	84.243902	84.519231	78.69186	6.4773533	0.0484672
LRP12	59.974895	54.845528	62.94964	74.552239	65.354651	65.455224	73.752137	70.587786	77.015152	74.753769	73.492424	74.325	-8.761442	0.0343165
LRP2	71.030875	65.66113	65.814935	65.417445	71.995381	72	70.905689	68.109677	77.518414	72.948718	74.019405	71.673669	-5.415273	0.0082488
LRP5L	87.888403	83.330049	80.282297	85.850877	86.124183	91.179153	89.876777	85.543554	91.15	86.440633	88.756614	87.025292	-3.924119	0.0347396
LRRC10B	15.889831	25.732143	20.596491	16.023077	20.431373	8.65	13.472222	14.814815	13.614035	16.895349	11.525253	11.571429	5.6885761	0.0407672
LRRC45	50.421429	76.755319	83.510638	67.422764	62.28	49.167939	51.995025	49.471698	56.300518	50.773585	58.477387	50.984211	15.846242	0.0149307
LRRC49	66.268722	67.333333	71.986395	73.992	69.057895	80.19697	75.946619	74.013072	80.441176	74.788546	77.247788	77.112903	-6.205509	0.0200347
LRRC4B	68.950658	63.428218	66.949367	67.964286	74.841176	73.349026	73.388112	67.669725	75.230072	69.008895	71.421998	67.192473	-4.689552	0.0279438
LRRC4C	70.795861	71.614714	70.753067	72.772381	72.687417	76.158147	73.957137	72.814949	76.500659	74.71561	74.397215	74.893861	-3.031618	0.0029338
LRRC7	65.328409	64.790654	65.258491	63.776256	67.58669	69.420382	68.750531	67.263986	72.352181	71.626904	68.711555	74.207329	-5.201492	0.0023752
LRRC72	78.708075	70.578947	73.648649	72.779412	78.452381	81.634615	81.815642	75.030303	82.933962	84.423077	76.664804	78.987578	-6.064025	0.0133087
LRRC9	62.520661	59.728	74.576271	64.349594	70.846626	69.251656	74.174905	68.774834	74.45977	70.666667	77.921233	73.612782	-7.169928	0.0238329
LRTM2	62.614504	57.383178	61.826667	67.812081	64.443114	69.291139	71.222656	64.507353	78.167939	69.903743	66.816239	70.936975	-7.002038	0.0263198
LSMEM2	90.813725	85.638298	85.887097	80.4	92.666667	89.955556	91.569767	91.157303	90.949153	87.294872	87.798246	89.046296	-4.369952	0.0295369
LSS	80.34375	82.964143	80.492593	73.619048	85.721763	85.125767	83.777551	80.439628	82.403315	88.538012	83.822857	85.289362	-5.034898	0.0201487
LTBR	72.048077	57.509434	63.28	59.298507	77.146067	66.523077	76.011111	71.670588	73.753086	75.510417	67.395833	66.582524	-8.790083	0.0190275
LTO1	65.754601	62.83	71.040404	59.16	82.214953	82.603604	78.620155	82.428571	67.147929	64.071429	70.383234	67.82	-9.714983	0.0496071
LTV1	57.1	51.690476	53.610169	42.953125	55.084746	61.818182	65.27381	57.52381	62.162162	65.064935	62.098214	65.32	-10.45479	0.0037974
LVRN	55.4	50	56.37037	45.38835	46.656	64.376068	62.126263	60.631944	64.702128	60.729167	66.903553	63.504202	-9.413986	0.026783
LY75	72.86758	67.156863	63.56391	70.661157	79.913043	87.022901	75.503846	86.427586	79.621951	67.859779	76.375	70.749235	-9.37179	0.0311092
LYPD1	41.646288	40.572414	41.789063	35.673913	55.312057	40.065574	57.875598	51.691099	57.809211	45.8125	51.221805	51.11157	-11.44201	0.005617
LYPD5	59.223881	63.483871	82.073171	90.322581	73.472727	49.137931	67.080645	63.728814	49.136364	43.443299	52.445545	50.829787	17.616487	0.0374437
LYPLA1	75.193846	66.955	79.865169	75.460123	82.76555	80.891089	85.24	79.934211	78.49115	82.825826	85.667539	78.186441	-7.381691	0.0098982

LYVE1	78.666667	82	85.777778	85.8	80.185185	68	59.878049	71.95	70.833333	82.740741	80.97561	72.648649	9.6596653	0.0400434
LYZL2	73.426667	74.790698	75.423729	85.567568	88.426667	84.179487	82.305882	81.041667	83.088235	93.058824	86.328358	76.648649	-7.082556	0.048655
MAB21L1	9.3636364	10.130435	1.5625	5.4545455	5.2083333	18.75	6.640625	23.4	14.285714	15.837838	13.666667	14.534247	-7.412649	0.0493173
MACROH2	64.766871	73.320346	66.374502	65.566265	80.035211	71.910256	75.367865	69.493464	78.708661	73.743935	67.035714	73.213992	-6.181641	0.0386156
MADCAM	57.335294	37.880952	63.149123	58.762887	66.6	60.393258	71.717791	68.733945	66.568627	68.769231	58.601093	57.740541	-10.6085	0.0446794
MAF1	46.704225	51.071429	53.846154	40.740741	27.660377	27.509434	34.868421	23.444444	43.446154	38.181818	54.690909	30.5	13.052942	0.0414539
MAFK	57.504237	56.350254	62.823256	61.823834	73.529412	63.56705	72.131429	79.254717	73.839806	66.580745	61.530184	58.915718	-9.043237	0.0378339
MAGI1	71.745547	70.251256	68.369012	68.497001	72.478882	70.548936	72.922612	70.973737	72.95353	74.148463	70.985199	74.365629	-2.70642	0.0149061
MAL2	42.421053	37.168539	45.188406	60.86	42.211009	59.290323	60.608	54.514019	66.139241	66.367816	59.895706	56.33908	-11.76115	0.047585
MALRD1	71.882245	71.628366	71.579425	74.84375	74.866592	74.903077	77.064275	72.597744	77.880779	75.527391	75.470714	75.502373	-2.993172	0.0111474
MAMDC2	68.131222	63.682203	67.233463	65.885965	72.677419	72.080851	74.741525	69.080153	74.083636	78.501348	67.866397	70.423006	-6.198579	0.007625
MANBA	81.808458	83.618421	84.895522	85.989691	79.223333	78.705	77.710811	79.151515	75.853755	78.892537	83.523684	79.738359	4.9781486	0.0027284
MAP1S	77.985294	67.728	72.588832	71.502591	86.298701	87.698718	81.701818	74.938272	79.476923	82.129187	86.59058	81.495017	-10.08997	0.003048
MAP2K4	77.523511	67.309278	65.295238	71.248677	74.786325	73.115044	85.202247	86.239796	82.745614	75.492447	75.635104	76.896806	-8.419997	0.0248803
MAP2K5	81.860963	80.702842	86.551111	84.784367	86.916667	86.536797	85.087062	86.078891	86.48972	86.046823	86.492705	83.563736	-2.426729	0.0445209
MAP2K7	72.095785	71.130081	67.771084	65.35	78.12963	67.045802	76.955882	78.879032	77.470149	78.754011	70.13253	73.196	-5.983642	0.0383355
MAP3K10	71.762803	80.216867	72.989474	74.182222	81.90099	85	83.642023	84.580952	84.556338	81.42735	78.638235	76.597633	-7.255099	0.0047976
MAP3K21	47.081505	47.698718	39.538462	45.644628	62.608434	51.80402	56.976351	56.484848	52.586387	58.178862	55.391304	60.719764	-11.85292	0.0003918
MAP3K9	80.792576	82.673554	80.475285	74.508696	87.119403	83.532508	86.523404	85.427245	81.389205	80.757143	83.966135	83.453831	-4.408581	0.0241146
MAP4K1	81.27907	73.892405	85.425287	81.742424	86.722513	87.047244	87.81672	88.379464	90.613043	82.770073	82.136076	87.217984	-6.003093	0.0200651
MAP4K5	68.210169	66.052632	70.971698	72.033557	82.984293	80.647826	76.529915	81.026596	81.224242	71.639456	71.3125	68.668675	-7.437174	0.0312788
MAPK10	74.853229	77.046931	73.153094	78.794118	76.770235	80.682927	79.045752	77.602632	81.152334	82.279197	77.291429	79.03662	-3.270797	0.0318964
MARCHF1	52.590116	56.510417	56.695402	53.246753	73.158824	58.260204	65.266254	56.383562	62.616162	63.7251	57.817232	62.239875	-7.672729	0.0219743
MARCHF5	73.35503	70.126506	69.386139	67.553922	74.990196	72.105727	75.86478	80	70.204255	75.996198	73.25	78.293447	-4.982676	0.021597
MARCOL	50	18.75	26.6	62.5	64.285714	71.142857	61.142857	60	45.75	53.2	58.25	52.666667	-18.84226	0.0382281
MARK3	78.739653	77.959184	80.615599	73.343575	88.741228	83.808612	83.309878	79.301818	88.463768	79.573643	83.13308	82.383657	-5.924958	0.0172386
MAST1	63.938389	69.446367	57.18241	62.631922	72.014528	68.808354	71.875786	70.039312	67.061828	67.748268	66.841187	66.29223	-5.535415	0.0221043
MAT1A	68.733333	68.567568	69.884058	74.065217	79.256881	81.585366	73.408451	68.113924	77.961165	80.495238	75.835821	78.123288	-6.534973	0.0213739
MATN2	74.814031	76.8775	75.062016	71.72179	80.738182	75.854641	78.464325	76.627306	78.982116	77.294118	74.638716	76.692308	-2.79263	0.0449512
MBD3L2B			68.75	0	100	100		90			81.333333	77.272727	-55.34621	0.0381999
MC2R	68.045977	75.225806	66.697917	77.680851	75.985816	79.495238	80.122807	84.317757	81.05303	83.675325	80.325	77.52459	-8.399808	0.0044873
MCC	75.018924	74.723429	74.101124	74.732729	77.979747	77.0625	76.971693	76.745217	76.130217	77.992476	78.246265	76.002065	-2.497221	0.000283
MCCC2	76.871383	79.610778	80.478049	76.278351	84.808411	81.52809	84.127796	85.53	85.95122	78.487544	84.658192	80.859155	-4.934161	0.0087844
MCM3	66.08	55.868421	70.031915	64.344828	76.693182	72.180723	70.162963	72.75	70.009615	70.709091	65.333333	74.2875	-7.43451	0.0184002
MCM4	53.882353	42.1875	41.27907	75.657895	57.986486	79.910714	69.360465	66.973684	78.440367	62.183544	65.364486	69.719457	-15.4907	0.0408411
MCM5	78.905405	72.082803	78.072464	80.153465	87.660944	80.359073	81.166667	85.639175	86.920455	84.243137	82.958621	76.032847	-5.819081	0.0307138
MCM9	61.683544	58.370558	66.743456	52.696078	67.904215	60.973913	73.249249	67.18932	67.382353	63.47929	65.511848	65.988864	-6.586472	0.0347001
MDGA2	74.364259	73.995851	70.805128	75.050314	75.169133	75.173006	76.557837	77.523095	78.100207	78.489051	75.830488	76.186916	-3.074829	0.0070851
MDM4	74.125	66.549669	70.155689	67.561151	79.502732	86	81.117391	85.834356	84.630573	78.866667	74.345638	78.541401	-11.50697	0.0007167
ME3	72.413043	75.229885	76.157576	74.360882	81.026634	77.019231	76.645022	74.972477	78.685446	78.1856	74.134953	79.002755	-2.918668	0.044129
MEAF6	61.206704	33.908046	47.891892	52.427184	66.26506	53.261682	58.281481	70.5	71.359223	63.279412	67.493213	68.770588	-16.04288	0.0094131
MED12	67.184874	74.144928	75.861702	73.463235	76.051095	78.969925	83.490323	76.170732	80.88764	74.769784	74.467249	78.331361	-5.228579	0.0291255
MED16	84.788006	75.323383	71.771978	76.776812	89.665988	78.443645	85.836795	82.106383	87.260997	84.963351	85.267273	81.884286	-7.263545	0.0181438
MED6	84.076923	93.333333	100	76.736842	82.2	69.491525	78.631579	77.027027	80.5	81.387097	85.743243	72.802469	10.063907	0.0437912
MEF2C	72.820707	68.679558	70.525714	73.645161	74.025974	73.931193	73.715	81.632287	75.338645	77.597015	74.977995	74.918919	-4.349343	0.0193364
MEGF10	74.097852	72.968421	65.122807	69.84	77.670412	78.017606	74.732535	77.575	76.132867	78.870324	75.623301	78.589537	-6.644178	0.0015752
MEGF11	71.018213	71.875489	67.623201	69.140123	74.134804	74.392308	71.789871	69.922977	74.250476	73.901615	70.096	73.056089	-2.778761	0.036002
MEGF9	74.59726	61.474227	72.247423	70.810945	83.689655	72.110577	80.926761	71	89.452915	75.765517	76.640394	78.008065	-8.666772	0.0401165
MEOX2	51.993289	57.782609	44.428571	55.05618	56.710526	55.07767	67.292857	64.05	58.896552	56.938931	55.362319	58.425532	-6.779136	0.0445135
METTL14	67.434343	69.607843	56.795918	70.192308	81.557692	82.926829	93.111111	84.421053	66.917808	70.08	68.020408	74.97541	-11.74369	0.047067
METTL23	41.351351	25.432432	7.1428571	33.121951	34.621951	36.696629	40.563492	48.772152	45.282051	50.290909	42.281818	50.384	-16.84948	0.0158054
METTL25	74.17801	64.48	76.698113	63.445378	79.111842	74.583333	79.465517	76.276923	75.251534	78.005181	78.145098	76.399209	-7.454454	0.0119631
METTL3	55.921053	45	57.142857	51.351351	60.130435	62.068966	63.94382	62.418182	73.684211	61.594203	67.480392	56.612245	-11.13774	0.0061117
MEX3C	29.387324	24.621212	21.585714	20.21	45.391304	38.580645	42.138554	34.518987	38.372093	41.564886	36.425287	38.513966	-15.48715	4.00E-05
MFSD4A	61.741036	54.729927	60.7	53.262069	68.073171	68.704918	60.19697	73.383333	67.089385	72.573123	68.364821	62.986441	-10.06326	0.003681
MGAT3	73.625498	70.618893	69.054422	65.671233	72.641667	77.382586	78.486667	77.557093	74.543909	71.088362	74.20122	69.987931	-4.743668	0.0357135
MGAT4D	46.424779	46.507463	32.407407	47.711864	45.082353	58.33	58.929688	51.404255	50.189394	63.081301	60.322368	52.272059	-11.68855	0.0146694
MGLL	72.648963	75.910499	72.618812	69.532189	74.556213	77.406061	75.754275	76.015449	75.80917	76.505342	72.100083	75.567994	-2.786708	0.0414355
MICALL1	76.692164	74.700599	76.143911	73.158031	75.057644	79.925072	78.193089	81.487252	79.4375	77.752887	81.978858	78.084871	-3.81597	0.0126235
MICU1	86.68128	89.78341	86.489407	85.752193	90.933735	89.976744	88.709302	88.536859	90.791602	88.735874	89.345051	87.644289	-2.15761	0.0281602
MIDN	19.836735	17.189474	21.370968	24.566474	53.684932	15.601266	35.003861	50.674847	33.592179	36.391144	37.782895	36.525836	-16.66621	0.0198795
MIER1	39.76	43.414634	57.512195	37.847458	60.306818	60.657895	64.515625	69.73913	60.764706	57.992	55.139175	54.996063	-15.88035	0.0022161
MINDY4	75.860495	75.898438	76.931129	75.312958	76.925651	79.604444	80.5997	79.547672	81.137255	81.571203	76.656212	81.389245	-3.678167	0.0047198
MLF2	72.084337	57.142857	66.666667	82.407407	88.77551	75	77.073529	80.952381	92.857143	89.82	80.380282	85.791045	-14.25592	0.0145762
MLH1	86.365145	80.061856	82.4	91.129032	79.023121	73.612245	82.298701	78.472393	83.684211	81.722689	79.736301	78.228758	5.3917059	0.039499
MLXIPL	56.451835	48.705426	53.942568	54.65942	60.302839	55.886364	57.873333	61.459649	58.930657	61.488479	58.11691	62.838776	-6.172314	0.003532
MME	65.346429	65.651376	59.513333	62.20354	69.077844	73.892157	68.264706	65.816327	66.721429	75.443137	65.243902	70.133829	-6.145497	0.0162697
MMEL1	73.49922	70.65407	69.045016	70.652308	80.125806	77.659884	73.977273	81.042904	76.497024	75.521368	71.260563	74.616495	-5.375011	0.012532
MMP24	73.423077	80.740566	63.595833	64.278746	82.128378	77.284345	75.620283	80.17004	87.435897	80.224784	77.868812	79.701176	-9.544659	0.0161051
MN1	71.233881	66.606205	71.241546	57.735714	73.308026	77.331429	72.690066	67.318091	74.128731	69.907875	72.889774	73.035422	-5.87184	0.0484745
MOB3B	69.510363	73.739234	64.878788	70.252577	76.440559	74.010776	72.289796	70.740125	71.871508	75.822458	72.869203	73.955556	-3.904757	0.0329507
MOCOS	67.750685	63.932642	72.15894	71.669725	76.479839	74.602339	71.458647	71.976654	77.105058	75.283951	69.221957	73.771084	-4.859443	0.027653
MOGAT2	76.123077	83.134831	68.115942	74.978495	79.764706	85.21	84.541284	84.736264	81.54386	80.870968	78.032468	77.877049	-5.983989	0.041841
MOGS	51.444444	63.395349	55.555556	55.239437	44.333333	52.929577	51.912281	46.358974	45.965517	42.891892	30.577465	46.320988	11.247443	0.0160596
MORC2	84.474453	80.633803	79.970149	84.640523	87.769585	84.70202	87.620915	87.233918	85	85.361217	85.050505	86.356401	-3.707088	0.0055493
MORC4	70.277778	72.222222	81.967213	63.253012	63.520408	59.958042	63.879433	66.875	46.73913	55.220588	62.797297	65.857143	11.324176	0.024825
MORF4L1	45.558376	40.007874	45.347826	37.042553	59.260163	52.536082	49.280423	53.607477	43.878613	63.33813	59.305085	42.248869	-10.9427	0.0239132
MORN5	75.904762	71.470588	72.708333	79.694737	79.746114	82.535519	81.053156	78.907407	82.810811	80.515625	75.435045	84.565749	-5.751573	0.0124191
MOSMO	74.317391	71.528571	66.660714	57.493421	75.537572	81.544643	71.916058	75.044025	85.987261	79.435897	70.817121	79.644828	-9.990901	0.0196648
MOSPD2	72.68932	59.575758	78.571429	65.014085	71.569444	71.276596	80.096774	78.189655	89.285714	85.294118	75.495798	88.709677	-11.02707	0.0383838
MPC1L	87.5	83.333333	100	83.333333			100	100		100	100	100	-11.45833	0.0129764
MPP7	80.254446	81.075269	79.110609	77.34359	82.265938	77.531729	83.761074	82.814196	84.401396	83.284031	80.76551	83.242391	-2.812305	0.0480241
MPZ	26.829268	24.242424	24.137931	9.5238095	36.666667	47.619048	34.375	26.833333	40.952381	27.777778	24.358974	28.235294	-12.16895	0.0323087
MRFAP1	6.8876404	2.8985507	0.5892857	2.4390244	9.6956522	8.1309524	7.8606557	8.1683168	8.8666667	5.8305085	6.0381679	5.3507463	-4.289083	0.0050173
MRM2	61.330508	44.078947	63.934426	57.246377	74.262295	67.395349	67.159574	65.132653	58.525773	66.08	59.719697	65.356643	-8.806433	0.0460483
MRPL10	83.0125	83.75	84.693878	83.512195	72.666667	81.859649	65.419753	66.510417	84.444444	82.040541	68.784091	72.770833	9.4300938	0.0345065
MRPL14	59.115789	38.679245	53.846154	49.444444	62.815789	51.051282	55.989362	71.410714	75.936709	55.319588	59.836364	75.460784	-13.20617	0.0441956

MRPL15	51.583333	44.166667	60.8	50	55.513889	54.487179	53.257732	58.064516	62.514286	60.670103	65.803738	63.640625	-7.606509	0.0441478
MRPL24	57.965517	26.086957	48.717949	47.368421	67.045455	62.078947	62.92	54.358974	56.842105	61.363636	59.511628	58.983051	-15.35326	0.0111302
MRPL28	88.330189	93.548387	90.565217	93.1875	71.280702	93	81.865854	73.666667	70.768116	89.073529	86.302326	81.573333	10.466508	0.0376247
MRPL3	54.452055	53.921569	63.327273	49.038462	69.12963	60.784314	65	58.580645	64.925373	58.626506	63.761905	60.989362	-7.539877	0.0201446
MRPL49	48.413793	18.75	51.612903	45.214286	70	70.588235	62.490909	72.222222	45.853659	65.217391	52.862069	52.506849	-20.46992	0.0169346
MRPL53	1	0	0	0.75	4.8823529	3.9347826	1.9019608	4.3589744	1.3157895	4.9574468	4.6923077	2.6530612	-3.149584	0.0018967
MRPS16	27.94	55.533333	30.875	21.25	61.6	72.5625	55.521739	60.8	51.785714	37.638889	45.8125	43.901961	-19.80333	0.0271602
MRPS31	74.407643	55.633803	75	60.960526	76.595745	76.007299	76.121429	77.906977	85.416667	79.545455	75.703704	74.005848	-11.1624	0.0134877
MRPS7	39.789474	46.65	48.387097	38.679245	48.176471	53.282609	55.684211	54.674419	56.060606	51.655172	52.95082	38.349206	-7.977735	0.0408903
MS4A3	59.459459	61.111111	83.673469	70.588235	86.363636	76.034483	81.428571	73.684211	78.8	76.333333	79.575	83.883721	-10.8048	0.0313176
MSH3	84.858491	84.115942	86.376812	84.574803	92.374005	85.033435	89.080586	86.987805	89.706468	87.400407	89.283763	86.877429	-3.361475	0.0185674
MSLN	73.021164	83.433628	80.769231	78.441667	85.541985	83.426667	81.238636	85.446429	86.25	85.220859	79.216667	81.111111	-4.515122	0.0473672
MSRB3	65.675532	63.581731	62.187234	67.273684	72.72103	69.445455	65.415274	67.367925	69.23	69.201278	67.369803	72.872428	-4.523354	0.0141954
MTA1	84.350099	81.494361	85.848598	83.49004	87.530949	86.643678	86.85	85.424635	87.928025	84.815409	85.5	85.138138	-2.43308	0.0172111
MTAP	78.509009	75.535948	70.723684	63.379562	83.005495	84.70122	79.265487	80.007042	75.353234	79.211538	75.505376	77.586614	-7.29245	0.0257459
MTBP	84.232558	73.809524	84.513274	78.333333	80.548387	87.368421	87.470968	89.901235	90.494624	88.704698	86.329843	84.146199	-6.648374	0.0196481
MTHFD1L	82.62671	81.566879	83.114416	80.264381	85.150909	86.263046	85.661269	83.587891	87.519811	85.020362	83.744279	83.338782	-3.142697	0.0042905
MTHFSD	79.980769	77.652174	81.655844	83.970238	88.469027	89.58547	87.261324	85.884259	82.25641	81.690476	84.462541	84.960227	-4.75646	0.0185175
MTMR10	72.32967	69.635037	75.165289	79.788136	93.103448	89.885246	73.590909	88.333333	75.631944	86.414201	75.748227	86.017467	-9.361064	0.0454468
MTMR6	64.368852	62.588889	54.530303	59.447761	77.677778	82.784946	61.439024	80.802632	70.739583	64.438462	63.428571	71.811688	-11.40638	0.0278102
MTR	76.826972	64	63.341232	67.948718	79.131944	78.711538	79.6875	77.910798	71.716312	78.517544	78.67184	76.570194	-9.585478	0.0029746
MTREX	82.301255	85.759494	81.329545	83.707692	85.677632	85.61828	91.503247	83.237838	90.274194	85.62249	88.407166	87.316151	-3.932628	0.0289779
MTX1	22.280702	6.25	14.772727	22.142857	29.62963	38.888889	34.042553	23.529412	34.782609	19.047619	35.555556	32.515152	-14.63736	0.0063243
MVB12B	78.037967	77.290471	74.674338	72.854444	80.457529	76.913364	79.466401	82.606292	80.350613	79.929293	77.939736	78.035207	-3.747999	0.0119443
MYBL2	83.757576	91.744898	86.014134	89.007168	86.22029	82.772603	84.405117	78.513353	84.438889	87.117359	81.186047	81.689981	4.3379893	0.0419334
MYBPH	74.208333	60.714286	58.108108	60.9375	78.787879	67.081081	82.409091	81.166667	81.019608	89.174603	81.046875	73.222222	-15.74645	0.0035648
MYCBPAP	65.855263	65.017094	63.611511	72.398649	69.678571	74.303448	76.095	71.518519	79.433071	70.871508	69.69863	70.722488	-6.069525	0.0211555
MYH2	72.570093	75.631579	66.357143	79.372881	79.444444	80.692308	79.398601	80.828571	77.905405	85.646018	82.858156	77.798561	-7.088584	0.0112483
MYH3	83.093248	84.48125	83.460227	85.204678	87.040909	89.530055	85.480836	87.964143	86.6	88.541254	89.064789	86.978892	-3.590259	0.0008967
MYH4	80.747126	71.836066	77.186441	68.314286	76.814286	80.462687	83.25	82.666667	81.6625	85.584416	75.783333	80.929293	-6.373168	0.0285857
MYH9	66.518004	68.439414	66.003727	67.243346	75.538941	69.52544	72.38649	70.308114	72.644344	73.232479	68.162634	69.194304	-4.322971	0.008329
MYL7	52.380952	66.666667	70.588235	42.857143	73.333333	88.888889	82.608696	81.066667	70.157895	74.944444	85.714286	93.619048	-23.16841	0.0030812
MYLK	73.63244	70.445926	71.711382	73.947154	75.62753	76.562704	74.071651	72.654308	75.502793	79.400535	73.574815	75.518131	-2.929833	0.0344885
MYLPF	41.175439	48.387097	63.636364	65.517241	66.071429	80.541667	70.866667	64.636364	69.054054	86.644444	68.548387	57.666667	-15.82467	0.0275743
MYO10	75.799424	73.959854	75.508475	78.444942	79.216105	76.682457	79.006567	80.301348	79.555027	81.603041	78.375327	79.534853	-3.356167	0.005799
MYO18B	73.447866	72.803571	74.700104	72.811159	74.116807	74.355656	76.430358	74.601664	77.344304	76.783491	73.770621	76.857143	-2.09183	0.0261339
MYO1A	81.080292	80.714286	78.985294	81.5	85.384615	87.012346	82.863636	79.595506	81.515789	85.962617	86.343066	82.006849	-3.265585	0.0456315
MYO1E	76.754606	74.067568	76.811538	77.857718	76.374607	79.377108	81.741983	77.74656	80.903226	79.917355	77.292543	78.649836	-2.627545	0.0361729
MYO3A	66.128874	60.621451	63.490798	65.413333	67.875556	69.973626	69.102222	68.596234	70.181087	70.681818	68.917284	70.221503	-5.530052	0.0001864
MYO5B	67.849665	67.028377	69.027414	67.843924	74.475645	71.323529	68.744444	70.194203	75.57226	76.340891	69.984201	71.850058	-4.373309	0.0137849
MYO6	74.362403	75.990712	72.727941	73.368231	76.9601	81.09571	76.538462	78.637566	78.931873	77.062232	79.023179	81.004926	-4.544434	0.0012095
MYORG	77.67619	82.470588	90.422819	86.195804	86.520231	78.403509	79.6	66.661157	76.915663	59.74269	72.156118	62.279817	11.406452	0.0488528
MYRIP	68.61962	66.019194	69.224409	71.5625	72.981699	73.024958	70.893555	68.243289	78.162534	75.810451	70.461157	76.301738	-4.378492	0.0419758
MYSM1	67.540984	52.958904	64.252336	67.028986	65.147727	73.284314	71.019868	66.802326	73.478261	72.705882	79.228188	71.436242	-8.692548	0.02113
MYT1	76.939723	76.084567	75.103239	76.242634	77.749275	78.445017	79.310133	77.63	82.014286	81.229665	77.640089	78.82113	-3.012409	0.0072235
MYT1L	76.771341	76.21393	76.535747	76.848694	79.318658	80.179245	77.485046	77.342685	79.26151	78.718151	75.877149	77.817314	-1.657542	0.0425526
N4BP1	63.242268	60.353211	56.957031	59.16055	72.713768	76.644144	74.103093	75.149425	77.561404	70.130435	77.708447	71.263708	-14.48104	7.19E-06
NABP1	22.533333	28.676471	26.923077	20	37.076923	38.690476	43.342105	26.477273	56.4	58.357143	34.821918	29.090909	-15.99887	0.0259956
NABP2	67.48913	36.046512	48.181818	51.886792	77.777778	70	62.813187	70.588235	62.090909	76.779661	76.133333	69.538462	-19.81413	0.0040139
NAGK	57.440678	64.936508	59.42623	60.035714	42.142857	56.329114	52.990099	54.289474	63.835821	51.86	50.693182	48.87069	7.8333779	0.0419367
NAMPT	38.428571	33.59375	72.307692	44	53.571429	66.151515	65.290323	60.9375	66.275862	64.084507	56.577922	57.142857	-14.17149	0.0495898
NAT1	94.803922	96.551724	93.117647	96.774194	81.428571	95.8125	93.684211	86.111111	90.869565	81.6	89.761905	87.333333	6.986722	0.0290394
NAV1	68.418261	63.914894	62.109612	62.583211	70.366801	69.237913	70.598276	62.795869	75.86587	70.887574	68.872596	70.315156	-5.611013	0.0219012
NAV2	70.178571	70.528481	73.759909	66.451327	77.436791	73.740035	73.266566	77.073462	75.060261	78.368229	72.476744	76.232946	-5.227307	0.0056544
NAV3	71.124744	71.744681	73.668966	75.223938	75.104	72.852632	76.345426	74.158576	76.380165	77.652525	77.59467	77.814056	-3.047174	0.0214565
NBEAL1	84.685121	82.375887	88.29805	80.095541	91.426357	93.151057	90.56	85.160526	91.076372	87.706215	86.393305	87.557441	-5.265259	0.0176017
NCAN	62.226601	66.287736	64.682243	56.425676	66.185083	72.056604	66.567816	63.38796	71.487085	69.054974	65.345992	65.34188	-5.02286	0.042024
NCAPG	47.715517	33.823529	50.042857	36.040816	54.869159	56.03125	53.304688	43.917647	43.205128	46.923077	55.214286	53.796992	-9.002098	0.0421092
NCAPG2	79.487671	73.675	79.532468	81.572289	84.635714	81.985294	86.394984	76.678414	83.824903	84.325373	83.997442	84.108696	-4.676996	0.0320198
NCDN	65.384615	49.637681	57.043956	53.283951	67.28972	73.958904	62.080645	74.90099	70.736842	68.981132	66.245614	55.068966	-11.0703	0.0203706
NCKAP5	72.847321	68.257722	67.620019	73.255282	73.886921	75.608059	74.281658	71.515879	76.202532	78.575946	74.013136	75.126677	-4.406265	0.0123533
NDC1	83.380503	78.625767	76.473373	75.478261	84.177778	83.645022	83.470423	80.851485	87.182243	80.142395	84.686709	79.214706	-4.431869	0.0336301
NDC80	71.471545	66.025641	69.46988	70.321429	83.505263	83.105263	82.046875	67.111111	94.285714	74.179688	75.828025	76.075	-10.19499	0.0367537
NDST3	73.931408	75.248447	74.972222	76.445161	78.103139	77.507538	79.109661	74.939394	78.698347	79.887789	78.227907	79.947368	-3.153333	0.005401
NDUFAF1	84.162921	66.447368	87.280702	73.734177	89.006711	95.876289	82.865497	93.481818	94.877358	87.554839	90.429448	83.823129	-11.83309	0.0156442
NDUFAF4	17.766667	15.753425	24.324324	25.609756	49.882353	33.333333	54.75	36.548387	14.074074	45	38.472973	30.323944	-16.93459	0.0299449
NDUFB10	12.235294	6.9767442	11.111111	10.810811	18.1	44	16.071429	17.142857	40	18.272727	17.938462	27.0625	-14.54001	0.0305453
NEB	85.068762	82.776892	79.333333	84.37037	87.274286	83.85342	85.406807	84.89801	85.772727	85.485323	86.71072	84.993874	-2.662056	0.025763
NECAB2	62.730769	72.505435	62.099448	61.775	69.814189	70.685606	65.98801	69.311111	73.270701	75.979592	69.321867	68.798578	-5.618544	0.036337
NECAP2	66.938547	66.642857	64.13	71.693694	75	73.377778	76.447368	72.025424	71.317308	77.423611	75.341346	69.713004	-6.479455	0.0038478
NEK10	77.950355	77.715976	76.379781	78.239819	78.88191	78.075209	80.541667	80.37018	82.930394	79.648077	78.483163	77.954545	-2.03916	0.0460731
NEK2	38.461538	19.035714	17.647059	38.690476	48.545455	37.75	48.648148	40.625	45.166667	43.916667	49.650794	50	-17.07914	0.0037919
NEK7	62.682081	61.813793	63.235294	53.579439	63.765258	68.910891	65.902314	72.538071	64.024272	70.453642	66.974118	64.896552	-6.855488	0.0117709
NEK9	73.295918	89.449541	84.169355	84.536364	78.846154	78.846154	69.156682	69.862275	69.08284	77.860825	68.708772	71.100719	9.9297418	0.0134845
NELL2	71.175879	69.975342	82.204152	68.515571	78.756757	81.200521	74.264368	78.48294	77.342169	79.178891	79.760736	78.896317	-5.517601	0.0401641
NEMP2	45.955882	36.4375	45.408451	31.589041	52.753086	58.626506	56.4	50.47619	46.1	55.267717	47	55.864516	-12.96328	0.0029534
NETO1	52.865297	58.383673	56.943463	47.936567	59.445402	54.782101	66.52988	63.465035	59.770083	67.517857	62.959302	68.164859	-8.797065	0.0114337
NFASC	70.016949	71.513393	70.067039	71.442819	72.614929	70.319328	74.648163	75.886439	75.975281	76.653114	71.936909	73.813883	-3.220956	0.0206862
NFAT5	77.329545	71.920561	72.695522	76.622137	79.377522	82.121528	85.629703	77.148936	83.989418	79.272727	77.931284	80.98791	-6.165437	0.0058867
NFATC3	82.055118	71.153846	78.057214	77.438312	82.855288	81.247768	81.360811	85.093607	84.790323	85.55914	81.537594	80.401451	-5.679625	0.0112657
NFE2L3	57.283333	45.486957	51.530612	46.551724	79.447368	61.180645	64.21327	63.725352	65.093525	54.803681	58.599119	57.143939	-12.81271	0.0134911
NFIB	67.836582	59.91954	60.853994	66.217105	68.982143	71.07513	65.257919	71.75286	71.622754	75.321725	71.849791	68.002845	-6.77634	0.0075524
NFIL3	34.369697	18.981481	33.5	25.378378	48.318966	25.068966	52.109375	46.030303	41.025641	37.578431	40.148148	35.664596	-12.68566	0.0284365
NFKB1	56.812102	62.095477	54.163522	44.271277	63.443478	68.169643	63.141361	72.618557	62.464435	64.845588	69.692308	68.837466	-12.31601	0.0028587
NFKBID	56.748792	48.87218	52.272727	36.985612	59.649007	55.178161	62.35468	57.217105	53.3	60.362694	57.913043	49.442786	-8.207357	0.0435404
NGFR	39.997442	31.564972	34.932927	33.252066	37.418502	44.836431	47	48.948454	44.865546	41.063401	46.786744	41.636132	-9.132549	0.0025773
NHLRC4	45.83871	68.238095	50	57.142857	68.125	62.075	82.418605	74.392857	70.652174	62.944444	71.285714	54.1	-12.94431	0.0405707

NHS	66.289831	52.925121	55.447205	63.945364	66.32746	62.356941	65.074028	66.91716	63.795635	65.896657	66.47151	65.04	-5.583043	0.03601
NIBAN2	77.058195	76.550562	70.135338	72.690945	76.155822	79.107965	82.054161	79.691743	79.914063	76.640533	79.056	76.227477	-4.49721	0.0152785
NINL	75.891026	74.32618	79.233227	81.846626	83.683771	80.170951	84.324515	81.747002	83.730198	84.647118	80.911788	78.3232	-4.368053	0.0226109
NIPSNAP3	40.701299	15.625	33.125	29	60.4	56.25	45.285714	37.255319	45.129032	50.5	39.511905	51.934426	-18.67047	0.0061425
NKAIN2	71.544851	70.636132	71.072917	75.546811	72.545946	75.685941	76.033833	73.502483	75.137652	76.130284	74.815104	78.167464	-3.052161	0.0253047
NKAIN4	54.812298	44.310078	39.674603	49.241379	61.595238	60.732984	53.192661	53.775758	56.358824	52.139918	53.944444	52.564356	-8.528433	0.0145286
NKG7	69.636364	57.142857	76.923077	87.5	0	41.6	45.8125	37.5	62.5	34.15	62.5	54.642857	30.462405	0.0216134
NKRF	69.437037	80.555556	78.947368	79.850746	49.076923	70.561224	55.206612	62.569892	68.672414	60	57.940476	47	18.319234	0.0028358
NKX2-1	10.908046	4.0540541	7.9922481	6.7054264	16.70339	14.162963	11.255639	18.666667	11.286957	10.659722	10.111111	12.458333	-5.748154	0.011156
NKX2-2	4.8125	5.3571429	8.490566	1.6666667	5.1724138	19.550725	16.046296	5.5696203	15.266667	11.920792	12.571429	22	-8.430524	0.0258872
NLRP2B	78	60	80	73.076923	82.352941	82.5	92.333333	89.333333	83.333333	88.851852	80.55	83.333333	-12.55429	0.0070065
NMBR	41.104167	30.431818	27.272727	33.777778	56.823529	75	67.769231	57.692308	54.166667	42.708333	39.805556	52.5625	-22.66939	0.0049177
NME9	70.845455	77.884615	72.217391	56.818182	61.389474	59.931818	65.676692	57.185841	64.893333	58.89313	58.669231	56.5	9.048971	0.0260056
NMNAT2	67.592028	64.511792	66.936404	70.536634	73.460595	71.121673	71.155666	67.745763	71.84396	69.735664	70.070196	72.610932	-3.573842	0.0162032
NOMO1	92.846774	91.880342	95.571429	96.753247	89.256198	89.948454	91.806723	91.368421	90.337748	92.685393	92.668605	89.954887	3.2596442	0.0095054
NOP14	67.889671	67.452471	65.676056	64.009091	71.92283	71.282132	71.088372	66.437909	73.343173	77.466851	68.367246	76.822472	-5.83455	0.0165357
NOTCH3	62.960052	64	58.401084	60.121951	66.960581	61.987013	66.778302	69.89834	66.729358	71.481949	64.144595	62.692547	-4.963314	0.0262135
NOVA2	54.136538	50.279863	42.024	49.693662	61.928105	60.700965	65.286853	54.589235	59.987616	54.830049	60.57563	66.20045	-11.47885	0.001916
NOX4	67.409836	65.753086	67.726496	66.129032	68.402685	71.496296	72.004651	71.353383	68.925	84.664671	70.931559	73.549801	-5.911393	0.049259
NPAS1	46.902439	43.836538	49.365639	55.392857	62.264423	58.318519	60.938575	53.078704	54.917603	53.419643	55.128492	54.106635	-7.647206	0.0107552
NPAS3	68.975155	70.118644	70.763468	72.284538	75.033736	74.572785	75.237495	74.849668	76.93329	75.537137	72.486749	74.081357	-4.306076	0.0003022
NPEPPS	81.172199	70.705202	76.996403	73.239044	88.600683	87.709898	89.215103	79.290102	80.555556	78.330918	81.870259	78.572277	-7.489887	0.0253809
NPHP1	74.945701	74.50641	74.317308	69.389381	70.994083	76.280255	80.09607	77.987097	77.656977	80.334728	77.468085	79.863158	-4.295357	0.0368271
NPIPB3	94.117647	100	100	100	91.5	85.714286	97.777778	96.666667	60.375	75	83.333333	78.125	14.967904	0.0426202
NPIPB4	25			21.875	74.055556	100	86.666667	100	75	85.714286	100	100	-66.74206	4.78E-05
NPL	55.559783	57	57.211538	65.086614	73.314607	71.428571	75.23871	65.451923	82.452174	62.899408	67.842932	60.665179	-11.1972	0.0175062
NPM1	50.875	43.220339	55.714286	48.709677	65.842697	53.419847	49.583333	61.466667	62.670732	65.313333	57.414894	54.553846	-9.153343	0.0261253
NPM3	40.897436	81.818182	23.076923	60	36.848485	23.333333	20.113636	23.529412	32.702703	19.362069	23.648649	30.875	25.146474	0.0197264
NPPA	65.789474	86.842105	82.5	86.538462	100	87.5	95.238095	85.714286	92.052632	97	98.210526	88.166667	-12.56777	0.0159104
NPRL2	48.95	60.869565	25	38.095238	86.842105	53.904762	70.147059	58.636364	57.432432	54.611111	54.404762	55.514286	-18.20791	0.0424163
NR2C2AP	50.644444	50	44.416667	55.555556	31	44.827586	34.693878	20.821429	37.612903	23.404762	36.025641	42.145833	16.337663	0.0050894
NR2F1	13.51735	10.598253	8.3856209	10.352564	14.929245	20.503597	11.909871	11.866667	15.674074	11.036145	15.197842	15.652318	-3.882773	0.0470237
NR3C2	81.990239	79.996055	80.00211	79.937639	84.589109	85.703333	83.419355	82.308108	81.40273	82.856258	81.344758	83.439306	-2.651359	0.010328
NRBP1	40.947368	45.586207	58.946667	35.428571	63.56383	68.696078	62.309677	71.616162	62.323529	62.73913	59.086614	58.202797	-18.34002	0.0011748
NRG2	56.422451	57.780523	57.852941	50.145401	60.137004	63.053247	56.885204	58.007732	60.27771	62.229979	57.638047	63.183001	-4.626162	0.0260373
NRGN	36.553398	43.153846	42.790123	32.098765	25.777778	26.266667	40.64486	29.353659	36.153846	27.011494	33.630573	32.068323	7.2856333	0.0481875
NRIP1	63.352713	56.699482	62.816456	67.606667	66.405	65.269461	64.25614	74	76.723757	73.031746	71.172524	68.642384	-7.318797	0.0240345
NSG2	74.916905	66	70.061224	72.721649	76.932331	82.262673	78.536023	74.127193	79.88189	76.065625	70.600567	72.566489	-5.446654	0.0439999
NSMAF	68.976589	73.026316	57.876712	60.787879	74.961749	85.567164	73.429119	75.796407	76.662857	71.42471	66.240997	70.878981	-9.203374	0.0329585
NTF3	58.657744	49.813278	57.197842	67.048193	69.830816	67.315985	69.340471	72.276596	73.560137	67.241192	65.942056	68.425743	-11.06236	0.002262
NTM	70.320929	68.349482	68.81941	71.012245	73.046489	70.316936	73.911577	69.114344	72.880746	73.724705	70.228555	73.057409	-2.409578	0.042258
NTN4	69.612159	64.263158	67.757679	62.228188	74.91875	69.812903	73.036765	73.503067	72.24024	73.568134	74.267016	72.333333	-6.99473	0.0004725
NTPCR	76.024845	68.325	68.269231	63.432836	81.929825	88.904255	86.126761	78.608696	81.123967	71.340136	80.569061	76.664975	-11.64548	0.0053273
NTSR1	66.148238	65.347727	64.619855	72.362657	69.533813	72.649755	70.367059	71.915521	75.943239	67.023578	71.725768	71.035797	-4.154697	0.0413789
NUAK1	54.6	57.396552	55.875536	47.67658	66.699367	59.210811	63.266802	59.670807	61.765306	55.568233	59.484787	59.059545	-6.70354	0.0132413
NUBPL	85.573643	85.793956	88.231678	85.571053	88.555324	87.745098	86.530529	91.085837	89.571992	86.934621	87.756919	89.153659	-2.124165	0.0366536
NUDT14	60.84153	52.454545	70.246154	60.733333	62.426471	80.216216	71.968504	71.352113	67.347826	69.737374	68.157025	65.314815	-8.496152	0.0426146
NUP153	72.954348	68.337662	64.202658	67.040541	80.726471	81.825826	74.449814	75.276536	69.662857	76.648837	75.316742	71.1787	-7.501921	0.0124571
NUP188	79.838174	76.156489	73.971193	83.630996	83.647059	85.415493	84.475162	87.644578	89.040404	84.595062	84.411552	77.776753	-6.226545	0.0185798
NUP88	70.869955	68.594203	69.531034	58.8	71.503185	85.866667	68.365019	78.643411	82.302632	72.090909	73.441065	73.103943	-8.715806	0.035447
NUSAP1	81.373368	84.571429	78.125	79.475	87.27193	90.703518	85.832447	84.361502	84.5	81.916905	87.34593	86.30137	-5.143001	0.0101853
NUTF2	75.395745	71.223022	80.929412	62.580645	82.063218	82.170455	78.979253	86.449541	81.841379	83.892683	76.528455	72.592857	-8.032524	0.0412743
NUTM2A	66.666667	50	75		100	100	95.454545	100	90.789474	100	84.375	86.666667	-30.77182	0.0003998
NWD1	77.278325	72.535885	70.386813	75.797203	77.940541	82.324435	78.010624	79.691262	78.943223	78.05102	75.395487	79.191895	-4.694004	0.0088771
NWD2	64.364407	58.260377	60.209459	63.689076	65.956403	70.388235	67.6	67.085502	70.398671	65.012255	67.231034	69.195382	-6.227606	0.0012581
NXNL2	45.021739	40.705882	42.019231	36.319444	45.814286	41.559524	48.907801	43.361702	44.197531	56.705882	49.531469	49.675497	-6.452637	0.0406
NXPH1	47.008633	44.866228	49.538084	41.633971	48.380515	47.503356	49.084767	47.092437	52.711027	53.585652	50.759259	51.505276	-4.316057	0.0275592
NYNRIN	67.850242	53.541667	67.316239	67.630252	82.73913	71.310345	79.408537	67.050505	69.858268	81.377049	71.253731	69.865591	-10.02329	0.0278901
NYX	76.030717	72.418182	73.893805	74.552632	84.427083	80.878453	80.873418	82.683938	79.716667	72.770642	82.605096	82.933673	-6.637287	0.0058998
OCA2	72.418682	69.420037	70.199816	68.961196	74.17757	72.57223	73.239888	72.188816	74.268775	77.010377	70.331416	73.782068	-3.19646	0.0167857
ODAM	0		50	0	75	66.666667	25		75	80	100	75	-54.28571	0.0122174
OGDHL	68.440129	59.52071	57.897674	66.187845	64.800847	65.125	70.570397	73.024876	75.072398	72.228	72.268456	67.960265	-7.11969	0.0202861
OGFOD2	56.058824	54.47619	76.32	59.95082	51.369048	45.535714	54.657143	41.911765	31.45	54.621212	53.14433	56.592233	13.041278	0.0399398
OLFM1	59.363148	61.231579	57.511628	58.45122	65.295508	65.848387	65.823062	67.185535	73.888889	62.130221	57.276051	62.660886	-5.874174	0.0404302
OPRPN	56.368421	63.636364	53.2	64.285714	75	60	80.8	58.25	77.083333	83.333333	79.142857	68.866667	-13.4369	0.0270407
OR10W1	0	0				50	46.6	33.333333	33.333333	50	62.25	91.666667	-52.45476	0.0096615
OR14C36	0	60	44.444444	71.428571	100	100	90	100	75	90.909091	100	100	-50.52038	0.0013267
OR1A2	57.142857	75	0	91.666667	100	100	83.333333	100		100	71.285714	100	-37.56463	0.0394252
OR1C1	56.25	75	40	50	77.777778	100	100		66.666667	88.888889	75	100	-31.59226	0.0061196
OR2D2	100	100	100	75	85	57.142857	73.285714	68.333333	68.444444	90.714286	50	80.75	22.041171	0.0228756
OR2L13	72.011142	70.035714	66.976303	70.831731	72.958015	70.857778	71.279255	72.422907	79.794007	74.734177	72.601732	74.258065	-3.649519	0.0475263
OR2L2	100	50		0	100	100	80	93.2	100	100	72.222222	100	-43.17778	0.0337214
OR2M3	100	100	100	100	69.333333	100	80.5		100	85.571429	80	73.2	15.913605	0.0299017
OR4A16	0	40	0	50	100	83.333333	66.666667	41.5	50		25	90	-42.71429	0.0333763
OR4C13	0	0	0	0	50	25	50			38.666667	25	41.666667	-38.38889	0.0001601
OR4X1	75	83.333333	91.666667	100	60	79.8	68.888889	63.2	85	62.5	87.5	75.5	14.701389	0.0487753
OR52B6	80	0	25	50	42.857143	100	60	100	70	85.714286	87.5	62.5	-37.32143	0.0375705
OR52D1	100	100	100	83.333333	62.5	80	68.75	50		75	83.25	100	21.619048	0.0350516
OR52E5	96.166667	93.333333	80	100	63.2	75	90.5	75	66	75	88.571429	61.6	18.016071	0.0165406
OR52L1	60	87.5	47.428571	37.5	89.5	80	87.5	91.666667	95.833333	100	63.888889	79.555556	-27.88591	0.0134608
OR5AU1	75	45	62.5	58.333333	84.090909	76	81.666667	82.5	70.5	95	78.5	89.6	-22.02386	0.0031866
OR5B3	25		0	100	100	100		66.666667	100	100		87.5	-50.69444	0.0486417
OR6A2	66.666667	100		0	100	100	80	100	100	100	100	81.444444	-39.625	0.0457182
OR6C74	33	0		50	100	40	86.666667	50	50	72.75	100	66.666667	-43.09375	0.0252861
OR6M1	40	60	80	62.5	100	100	100	83.3	87.5	100	62.5	68.090909	-27.04886	0.0180784
OR8K1	80		100					0		0	0	66.666667	73.333333	0.0464378
ORC2	74.09375	72.815534	52.272727	73.648649	86.783784	83.02439	85.989362	88.856	69.490196	84.848958	75.109705	77.083333	-13.19055	0.0242232

OS9	82.892857	81.609195	78.767123	87.692308	73.275862	75.153846	83.869919	77.313043	72.395833	82.192982	77.326667	76.870968	5.4404808	0.0469083
OSBP2	77.056111	70.66087	77.152644	75.081653	81.266087	79.525288	76.529036	76.482158	79.08181	79.224022	76.320831	76.749168	-3.159481	0.0472267
OSBPL1A	74.870544	75.896679	79.880137	77.933453	84.969169	81.367733	81.444126	81.671642	81.095801	79.643221	76.014683	80.082845	-3.640949	0.0338407
OSBPL3	72.534125	72.945869	68.355014	70.230994	79.437363	73.890777	76.227528	77.158371	77.659817	73.618613	73.972603	72.431193	-4.533033	0.0102378
OSBPL6	65.77147	64.884956	61.057644	67.733119	67.497423	64.788945	68.587302	67.205195	69.710723	72.331723	68.827233	70.852078	-3.86328	0.0290502
OSCAR	55.690789	43.510204	44.716418	49.140351	59.947368	63.505376	57.616	56.782609	61.232759	51.80292	48.172619	53.847059	-8.348898	0.0263132
OSER1	56.666667	36.394737	50	26.623377	61.642857	66.666667	55.336735	45.901639	61.638554	47.047059	60.5	52.097087	-13.93263	0.0409348
OSGIN1	74.40367	71.747967	70.103093	67.698113	79.692308	74.813559	76.015152	76.902778	75.818182	78.860963	76.632287	75.716216	-5.81822	0.0010245
OSM	53.961039	72.813953	65.2	59.246753	51.871429	61.365385	59.641975	44.952381	54.963415	55.626866	53.870968	43.62766	9.5654268	0.0470097
OSR1	19.042654	15.669565	14.516129	15.357143	21.457143	24.713287	21.176136	22.40367	17.165354	20.755814	23.459893	19.419192	-5.172438	0.0037067
OSTF1	73.732143	69.299145	58.617021	71.052632	89.89375	81.465409	70.995951	79.686275	93.028777	79.146226	79.366795	68.92053	-12.13773	0.0290376
OTOL1	57.142857	72.727273	66.666667	80	85.375	100	90	92.307692	66.666667	72.727273	80.5	87.5	-15.25038	0.0385907
OTUD7A	68.019715	67.823158	63.617297	64.208916	67.04236	69.801688	68.547556	69.754734	71.352381	71.372244	67.963682	71.468012	-3.74556	0.0093424
OXER1	93.945946	92	92.424242	92.5	92.0625	88.888889	88.108696	87.684211	90.055556	93.258065	87	91.441176	2.9051606	0.0352262
OXR1	67.058366	68.408994	62.545956	70.61165	67.86015	69.669435	71.237397	70.786337	71.457726	72.544372	70.505627	70.209677	-3.377599	0.0308328
P2RX7	86.054422	85.662551	87.158798	86.570881	83.65109	83.358362	87.453917	84.782468	84.649852	82.221024	84.699758	81.426752	2.3312604	0.0369134
P4HA2	66.917012	49.56701	59.273684	63.111111	83.007937	80.394495	80.52907	64.246835	69.860294	81.441558	64.177778	69.27619	-14.39957	0.0135221
P4HB	80.969274	80.084211	77.279762	75.690217	85.834746	85.021645	80.390533	90.906863	86.413174	81.343333	81.66087	84.731092	-6.031916	0.0108845
PA2G4	44.060606	33.912281	46.341463	32.823529	60.282609	56.933333	46.7	52.1875	50.38806	45.431579	38.325581	51	-10.87161	0.0270731
PABPN1L	84.243243	79.354839	76.041667	76.142857	86.479167	89.511628	86.090909	82.051282	89.68	83.716981	80.666667	81.959184	-6.073826	0.0198992
PACSIN3	57.572254	48.770492	45.402299	46.902098	82.385321	72.97479	68.809524	58.96	73.622951	62.863946	55.135678	46.502703	-15.49508	0.0314291
PAFAH1B1	80.52673	74.534014	75.479419	84.97929	83.836538	84.754476	83.400347	83.213942	82.120614	87.504554	85.876119	81.104803	-5.096561	0.024884
PAFAH2	80.926531	77.453237	78.346405	85.763889	88.202312	82.340278	87.039216	88.449198	89.413793	81.20603	85.508065	85.722433	-5.36265	0.0207751
PAK6	68.884232	62.413907	62.345238	61.61165	66.350267	69.367816	73.479212	71.713889	72.582803	72.863014	64.54771	71.928702	-6.54042	0.009342
PALLD	67.501202	67.451991	71.575281	68.758065	73.106691	69.137708	74.861875	70.574268	72.483983	74.66064	70.001513	72.009091	-3.282836	0.0258735
PAM	74.009132	64.285714	73.529412	57.318681	77.81457	63.821705	74.956693	81.131944	80.15625	75.07767	77.215548	80.634058	-9.06532	0.0437081
PAN2	69.106061	67.816092	58.817073	63.546667	72.930693	78.153846	79.093525	83.565217	82.413793	74.57265	75.48227	68.465116	-12.01317	0.0025177
PAPLN	69.259714	67.063158	68.972973	56.394366	74.862857	76.183673	71.123077	73.992883	76.183206	71.168865	68.244726	71.024194	-7.425382	0.0146454
PAPOLB	54	40	34.235294	30.769231	56.288889	76.923077	55.6875	80	47.208333	50	51.851852	42.324324	-17.78437	0.0460234
PAPPA2	67.952381	68.970516	69.57289	68.597403	71.278719	73.141748	71.504202	68.899297	73.049751	74.623919	72.371822	74.065646	-3.593591	0.0037334
PAQR3	32.614286	48	55.263158	38.392857	58.888889	63.157895	66.981132	50	45	53.409091	65.375	52	-13.28393	0.0307556
PARD3	73.454072	75.215145	72.248485	75.683904	78.456376	78.370195	77.915958	77.098862	80.15552	81.377223	78.289395	78.128414	-4.573591	0.0004073
PARPBP	75.019608	77.227723	76.785714	71.86747	79.19685	85.161765	84.431472	81.260504	82.916667	84.088235	81.502488	86.365079	-7.890254	0.0002952
PATE3	81.866667	70.833333	66.666667	68.3	70.909091	87.5	86.470588	75.533333	91.666667	75.066667	83.9375	85.545455	-10.162	0.0431113
PBLD	57.345133	52.466019	59.803797	55.07619	68.365385	65.611765	68.462541	64.888268	57.857143	64.7393	67.931818	60.84874	-8.665335	0.0028387
PBX1	74.919398	72.783871	73.421141	71.719937	77.238095	76.472222	74.914894	74.316438	75.44129	80.295	74.181613	76.612928	-2.972973	0.0238921
PBX3	71.488215	64.15847	64.430723	60.124611	77.695775	71.156028	73.023352	76.154545	74.059305	72.440497	72.672176	72.914205	-8.713981	0.0011104
PCDH9	74.986301	74.635117	74.252859	75.365682	75.977033	76.417442	78.233939	74.123583	78.06911	80.504658	75.964021	77.45325	-2.28289	0.0450039
PCDHB16	44.788235	69.681818	50	50	47.368421	50.54386	44.175439	46.723404	33.333333	33.307692	37.727273	31.316327	13.055545	0.0342905
PCGF2	56.462882	52.077586	56.885057	63.49505	55.692308	75.159574	72.98913	66.644628	65.051471	68.36646	65.228723	63.775785	-9.383366	0.0211792
PCGF6	79.316258	77.302326	81.292181	78.566964	91.601423	87.58427	85.572082	82.843636	83.777429	87.167959	82.536965	85.260776	-6.673635	0.0021692
PCIF1	55.936441	36.676768	52.52795	42.272152	51.6875	54.231156	66.469697	66.214815	52.398844	56.233184	54.366667	58.710145	-10.68567	0.0303249
PCNA	7.4556962	6.0606061	4.0816327	4.8793103	14.84375	13.235294	10.8	5.4545455	17.818182	9.787234	11.428571	6.0645161	-5.5597	0.0301289
PCNX4	61.993548	59.756098	50.733333	64.736842	66.396825	70.353982	82.578313	85.714286	67.596774	65.158537	65.110048	67.67619	-12.01816	0.0268474
PCP4	71.126582	74.144654	73.32	73.459184	76.671429	71.784689	82.191358	77.489011	77.864407	75.227799	75.717452	75.994609	-3.604989	0.0435825
PCSK2	65.836842	65.365503	65.864476	65.907895	66.469136	71.205931	69.535569	66.041946	67.205288	69.363636	68.064299	69.479925	-2.677037	0.0150666
PCSK6	69.680447	69.765896	71.936477	72.014612	74.751911	72.965591	75.025298	71.83871	75.641026	79.468406	74.718365	73.62234	-3.904598	0.0104494
PCSK9	64.369444	61.152466	63.620112	66.719626	69.303419	70.362595	71.924699	74.103004	69.842697	74.676056	71.881402	72.271709	-7.830285	9.39E-05
PCYOX1	78.366279	88.425926	82.231405	82.850467	74.842105	67.165414	77.094059	77.660256	76.430464	75.564286	79.178571	78.52973	7.1604087	0.0132387
PDCD1LG2	83.922652	77.135417	83.449541	80.568807	91.522124	83.775281	86.046154	91.175258	88.189781	86.578947	86.75	86.781609	-6.33329	0.0039865
PDCD4	46.09375	16.363636	16.934426	31.690141	36.270492	68.75	39.705882	76.923077	34.615385	47.254545	62.048193	51.064815	-24.30856	0.0263515
PDCD7	53.640523	36.490741	28.378378	41.37931	43.859504	65.5	52.5875	57.447368	60.238532	62.162162	45.769231	50.880952	-14.83342	0.0196289
PDCL	55.970149	48.571429	25.682927	41.304348	58.333333	54.918919	59.831169	51.282051	51.886792	71.105263	57.5	52.305556	-14.26317	0.0260136
PDE11A	74.528837	69.867617	72.167715	71.796421	78.778274	73.631579	78.258869	76.342532	75.526971	81.49442	72.02758	80.158187	-4.937154	0.0197052
PDE2A	54.722493	52.458586	54.325142	54.791531	60.726592	60.471318	56.711364	56.163732	56.892361	55.665509	57.616071	56.532454	-3.522987	0.0076296
PDE3A	69.306502	75.478873	73.652047	69.216578	74.671518	76.900243	75.053521	77.654229	75.464373	79.231132	74.109785	76.591088	-4.295986	0.0107332
PDE4D	69.794427	66.553355	68.952077	67.289641	72.202769	73.1643	74.346176	71.469981	73.265638	74.925858	70.68988	73.960526	-4.855766	0.0002976
PDE4DIP	70.907407	64.914179	70.058537	66.168776	73.025926	72.441281	74.885117	71.298387	66.368771	74.922857	71.559633	73.096998	-4.187646	0.0333885
PDE6B	74.195448	64.570136	75.801061	73.060264	81.66171	78.649789	80.826498	79.31713	77.086864	80.751332	73.103362	77.831259	-6.746766	0.011677
PDGFD	68.635394	70.04329	67.072519	71.877828	75.463722	79.256705	77.830258	76.897059	79.015244	75.909492	73.264856	76.091973	-7.308906	0.0001392
PDHB	38.695652	77.777778	50	75	33.333333	48.484848	46.366667	29.166667	35.897436	43.75	30.819672	31.789474	22.917345	0.0121199
PDIA2	83.84	84.163265	81.818182	73.039216	91.895522	94.608696	90.073684	86.326923	89.553571	84.298507	92.438356	89.351351	-9.103161	0.0039178
PDP2	46.720339	48.101266	42.132075	42.122222	58.855422	58.841463	45.203884	43.891892	55.88	52.969697	52.592	56.974359	-8.382114	0.0239599
PDPN	69.14652	64.104294	65.378571	58.480874	70.483871	70.957983	69.193146	66.19171	81.815789	79.355856	73.526502	65.976027	-7.910046	0.0380237
PDS5B	76.532009	68.448413	72.83274	71.917647	79.818462	76.750809	83.368889	79.820261	75.29878	71.982979	79.03888	75.174957	-5.22405	0.0345466
PDZRN3	67.323864	68.907018	65.502924	71.044883	72.581173	69.671554	73.314097	70.752593	70.297619	73.150334	71.15124	70.403433	-3.220583	0.0130119
PEAK1	83.638773	75.364835	72.477064	74.065534	87.973236	82.710359	88.966709	76.615546	79.515593	80.512158	85.625434	80.242081	-6.383588	0.0453009
PEAR1	71.359223	68.703947	68.936275	70.15942	79.027174	69.756906	79.602113	77.006098	71.55665	73.617978	71.05	76.547945	-4.980892	0.030756
PEBP4	71.644582	73.225705	70.618462	72.413261	74.267717	75.009054	76.734753	73.392086	80.039182	75.270014	71.239589	75.104167	-3.156568	0.0426865
PECAM1	79.05814	71.536585	85.227273	73.529412	69.055556	63.222222	71.162162	66.037037	68.976744	75.471698	70.35	70.365854	8.0076932	0.0161398
PELP1	75.874608	78.753846	74.6875	75.611429	79.835391	76.317308	81.461538	76.873096	84.103627	84.178707	80.304469	80.351266	-4.19633	0.0250979
PER1	60.914414	53.994083	64.631944	55.539568	70.842767	61.030303	68.964646	55.805195	72.876812	74.055249	69.308824	68.005181	-8.84112	0.0326558
PER3	74.264198	77.252137	70.159091	73.154762	76.831897	80.385321	78.232804	73.62	80.553435	78.911585	75.776722	75.322967	-3.746795	0.0422752
PET117	50.622642	53.846154	54.545455	94.444444	30.835821	28.571429	34.246575	47.959184	35	32.55814	34.298701	40.639175	27.851046	0.0045267
PFDN1	85.841202	87.024793	86.316239	87.704	78.081967	82.478261	84.699571	81.284024	82.916201	80.192308	86.251799	81.080169	4.5985213	0.0065766
PFKFB3	75.949606	66.768987	70.748299	71.527174	74.336557	78.797101	75.551667	79.727273	76.241379	72.323587	75.670313	72.843697	-4.43793	0.0363586
PFN4	45	52.941176	51.851852	30	54.807692	94.8	75.609756	81.818182	86.363636	85.884615	43.08	56.25	-27.37848	0.022324
PGAM2	31.382979	39.553191	38.555556	45.153846	66.541667	67.261905	42.520833	64.954545	50.484848	47.809524	66.910714	51.777778	-18.62133	0.0071904
PGAM4	62.5		100	50			100	100		100	100	100	-29.16667	0.0376022
PGBD3	87.690476	93.75	94.444444	98.076923	88.333333	91.666667	91.818182	85.571429	90.517241	84.942857	89.632653	87.586957	4.7317961	0.037273
PGBD5	72.062924	66.027079	70.180698	68.406593	70.853801	73.744186	71.68993	70.510601	75.48731	69.639344	73.446154	75.408219	-3.42812	0.0383033
PGLYRP4	62.915493	69.534884	57.744186	56.723404	71.490196	75.626866	69.869048	72.958333	79	71.986486	70.571429	71.644231	-11.16383	0.0012124
PGM3	60.026549	50	67.424242	51.985075	87.755102	82.142857	75.039474	84.859155	63.41	73.76	69.900826	76.552239	-19.31849	0.0028172
PGM5	59.242718	60.779279	58.576763	66.859155	66.753943	67.34767	73.783105	64.574405	79.04902	68.905444	63.518375	68.239845	-7.656997	0.0248177
PGR	37.892617	37.632184	31.762431	28.076923	40.642045	40.747126	40.418675	39.751152	47.410891	45.871094	46.77193	39.468843	-8.794181	0.0040153
PGRMC2	25	22.580645	39.772727	30.714286	40.740741	19.354839	56.701754	45.744681	59.803922	46.59375	46.342466	46	-15.64335	0.042794
PHACTR1	75.345156	72.02589	72.174709	74.285714	75.340244	75.51772	77.8523	74.849372	74.623711	77.0611	75.182623	77.00854	-2.471584	0.0132167

PHF13	57.102041	39.210084	53.017241	47.027397	68.222973	60.701087	62	74.637681	48.22695	61.211765	56.76087	52.898833	-11.49333	0.0442852
PHF20	89.042226	83.075922	87.287054	82.808349	90.064603	88.061157	90.075226	88.609756	89.918712	86.214035	86.769507	87.871104	-2.894624	0.0491319
PHF21B	67.585312	70.616152	67.508665	67.365622	72.616233	69.393939	72.348958	71.677692	68.479121	72.115385	68.723298	70.102592	-2.413215	0.0391989
PI15	77.777778	67.857143	73.32	73.333333	76.923077	85.714286	77.34375	88.888889	88.571429	83.317073	76.241935	90.540541	-10.37056	0.0106712
PICALM	69.145907	66.091787	58.039801	61.506726	79.624277	66.619048	73.583587	64.107527	70.058824	77.072555	69.715054	75.308311	-8.315092	0.0258504
PIGK	84.29386	80.555556	73.566879	76.020408	85.416667	85.366906	86.37037	86.503817	90.368852	90.098039	84.890152	80.116732	-7.532266	0.008338
PIGM	26.104478	35	31.25	33.928571	11.538462	15.322581	19.458333	9.4827586	7.1428571	18.642857	15.033333	12.903226	17.880211	3.84E-05
PIGN	78.61597	69.293103	75.493976	79.640719	84.275132	86.928934	83.626667	77.553073	82.207729	86.036735	81.967949	78.316489	-6.853147	0.0145286
PIK3AP1	77.975155	76.150725	72.376623	75.452055	77.256071	79.672414	82.461897	78.430518	80.282353	81.675045	80.611898	77.276389	-4.219684	0.0074419
PIK3C2G	76.227191	78.579288	72.178378	74.625	78.755051	75.925234	77.755233	77.787565	80.945498	80.005348	77.865123	78.29454	-3.014234	0.0304083
PIK3R5	76.451274	74.425061	69.985207	73.937046	79.326531	76.626126	74.177419	75.267735	76.415778	78.089908	75.079692	77.748641	-2.891832	0.0458161
PIN1	65.252033	63.138211	70.769231	64.899329	74.277778	65.506579	76.157895	95.327273	86.984733	84.485207	73.899563	68.497836	-12.12741	0.0436252
PINK1	61.350211	67	59.310976	63.154412	74.805405	60.516779	74.314286	69.277778	78.181818	65.977578	68.038136	66.784173	-7.033094	0.0483095
PIP5K1B	65.034728	67.181077	68.93266	71.839733	73.683773	74.627536	73.148444	69.94507	70.679389	77.501136	72.473019	74.723164	-5.100642	0.0085556
PIPOX	74.039604	77.883721	77.071429	70	83.727273	83.618182	76.964286	83.59375	79.160714	78.846154	74.057692	77.953271	-4.991477	0.0461879
PIR	70.588235	73.214286	65.972603	67.940171	71.668675	73.517857	79.325301	69.911602	81.432624	76.944828	72.597015	75.677305	-5.705577	0.0314877
PITRM1	82.448878	79.142857	77.297872	77.13089	84.485119	85.567944	85.276442	79.978947	85.255061	83.192073	87.484561	84.741453	-5.492576	0.0027599
PITX3	28.054688	29	27.387097	22.46789	35.89881	33.304094	29.690355	33.754967	32.862903	29.145	37.480769	32.710526	-6.378509	0.0043047
PKD1L2	76.313896	75.751724	77.392308	74.669834	78.204659	78.864821	78.431759	77.658349	79.186411	77.525148	77.926973	77.200233	-2.092854	0.0023123
PKHD1L1	71.948805	70.072993	76.244444	71.165414	77.452632	73.205882	75	76.748718	82.075758	80.417857	76.98615	76.096515	-4.890025	0.0171658
PKIA	59.481818	49.029851	42.8125	65	64.731343	61.432836	71.236641	75.036585	76.102941	71.939655	79.971429	72.649254	-17.55654	0.0032197
PKM	51.061017	53.621622	45.57037	45.745763	65.359477	61.119318	55.875912	62.455621	63.339713	51.423729	54.531646	58.342857	-10.05634	0.0050674
PKMYT1	67.138889	61.178082	40.116279	63.380282	67.504951	70.324675	82.455556	78.921348	73.709302	68.059406	57.818182	69.275591	-13.05524	0.0425054
PKP4	77.251778	74.994819	73.978469	73.035354	85.168605	81.636161	79.101648	79.083721	79.284404	75.016743	79.418968	78.245783	-4.804399	0.0133862
PLA2G4D	66.91635	71.510791	66.650602	63.561798	74.8867	72.356757	74.944444	71.75817	80.672515	74.97479	71.291367	76.33564	-7.492662	0.0027767
PLAGL1	79.194313	58.140741	62.614286	78.817518	78.122222	88.531792	72.015564	89.4375	86.865248	80.311558	83.395161	79.380783	-12.56576	0.0247765
PLB1	72.830636	75.837209	75.939271	76.315436	82.210769	82.264599	79.152273	80.510516	76.227869	80.495674	77.433045	76.966422	-4.177007	0.0099653
PLCB1	74.205021	75.746883	76.60981	77.294889	77.86106	79.166667	76.4289	77.11319	79.478836	77.948871	76.683905	79.240474	-2.026087	0.0237346
PLCH2	78.677863	74.439286	78.387417	75.605442	81.64557	84.006135	79.89924	80.70137	76.707182	82.425486	76.272331	80.599206	-3.504563	0.0452837
PLD1	79.040639	70.612195	71.269036	77.508475	77.94702	77.435644	77.043785	78.005682	79.935927	76.751166	79.807372	79.186335	-3.65653	0.0422549
PLD5	69.911765	69.139257	70.908163	67.872675	70.20804	72.190101	71.177358	71.195587	74.45	74.680159	71.076401	71.087339	-2.550158	0.02358
PLEKHA5	79.851309	79.286026	75.576446	78.113445	86.546789	85.363454	85.45302	87.231358	82.025276	81.496948	79.610427	81.167742	-5.40507	0.0069303
PLEKHA7	69.094868	67.6	71.757848	69.969586	71.832599	71.925466	72.85113	69.75915	72.859835	74.102392	71.584	72.602545	-2.584064	0.0141317
PLEKHD1	69.343333	65.826087	68.395973	66.725146	69.663636	73.857143	74.731225	66.715909	72.9	70.314894	69.993289	71.478659	-3.634209	0.029592
PLEKHG6	68.450413	62.212121	74.933333	67.031008	76.70229	77.651163	73.620192	79.463855	75.714286	78.811518	73.140625	67.723618	-7.196725	0.0210585
PLEKHH1	70.370927	66.982979	66.923767	64.412698	79.797753	68.402174	69.426304	73.819923	79.691943	75.408571	72.671679	76.326241	-7.270481	0.0106807
PLK1	61.466667	61.685185	64.735043	59.848485	81.865385	79.382716	74.806897	66.726563	83.893617	72.083969	67.791045	70.759615	-12.72988	0.0036581
PLK3	23.598039	34.092593	33.088235	39	58.857143	45.491228	37.472603	34.258929	50.023256	46.949367	41.623077	39.815217	-11.86664	0.0261404
PLPP4	65.021322	60.051282	66.711921	68.140152	75.371257	70.459459	70.598778	63.375723	71.891026	77.3225	68.493952	72.855805	-6.314893	0.0293371
PLPP5	30	14.285714	26.851852	25.510204	38.392857	40	32.575758	34.615385	50.745455	25.231884	38.042105	44.048193	-13.79451	0.0123843
PLPPR5	59.307692	65.508772	65.226415	47.865772	64.3	64.764706	75.172897	70.922581	72.050633	67.75814	67.128302	67.396429	-9.209548	0.0209943
PLSCR3	53.636364	25.432432	42.307692	11.179487	61.35	36.722222	47.082192	52.325581	55	57.848101	61.787234	53.380435	-20.04798	0.0241084
PLXDC2	71.47343	71.241176	70.101974	68.749064	71.900612	70.058122	74.919628	71.465041	73.899848	73.872762	72.134571	77.3429	-2.807774	0.0479921
PMAIP1	7.75	0	2.2931034	0.9090909	11.923077	7.1428571	13.206897	8.3333333	5.2954545	5.4347826	5.95	15.892308	-6.40929	0.0220032
PMF1	78.1	82.86014	70	72.738095	68.068273	69.768786	65.359431	75.584615	65.339713	66.583673	71.439286	73.262458	6.4987793	0.0383109
PNKD	63.083233	61.89548	63.671362	60.083333	69.355865	70.31681	66.396	68.413127	65.33114	68.29421	67.299738	63.006553	-5.118329	0.0030164
PNPLA3	67.114068	74.856	78.027273	70.772059	49.20297	69.182482	61.443089	63.119205	56.334951	62.809302	66.201681	64.443925	11.100149	0.0110778
PNPO	51.25	45	24.242424	43	51.369565	48.5	56.756757	74.193548	51.315789	66.666667	54.508197	43.189873	-14.93944	0.0436217
POC1B	66.943243	62.337017	70.69378	59.320896	69.249084	75.122066	73.280822	73.786667	71.738281	74.485549	72.149883	67.300439	-7.315365	0.0071386
POFUT2	80.984887	77.807175	78.243802	73.664894	81.204	81.013423	79.579221	78.414097	78.45912	83.984227	83.787879	82.047619	-3.386009	0.0480792
POLE	86.448931	83.303769	81.797414	77.346667	89.694346	83.175313	87.379951	87.304965	84.60303	86.653895	85.467986	85.079911	-3.945729	0.0367019
POLR1D	73.8	56.529412	65.178571	66.656716	86.176471	90.625	72.149606	68.150685	83.809524	72.117117	77.174603	76.917808	-12.84893	0.0200745
POLR1E	69.84874	65.789474	77.941176	75.510204	80.921053	85.431373	77.685714	72.972973	84.674419	75.323944	78.099174	78.401709	-6.916396	0.036887
POLR2F	82.767296	84.341463	79.194805	73.834783	72.258065	80.288	71.939759	69.785124	77.252336	76.039474	68.897143	73.684211	6.2665728	0.0325116
PON2	64.283333	52.941176	56.176471	42.647059	70.159091	86.363636	65.164179	59.269231	90.457143	61.47541	62.952381	61.049505	-15.59931	0.047089
POU3F1	5.1588785	2.9850746	2.4545455	4.0462428	9.8235294	11.316547	8.0184049	10.602273	5.2156863	10.247191	7.0059524	11.072848	-5.501619	0.0009508
POU5F1B	94.514286	96.875	93.548387	88.636364	83.032258	85.111111	87.837838	86.5	90.914286	88.1875	91.891892	93.606061	5.008391	0.0434346
POU5F2	91.176471	89.393939	83.333333	100	97.222222	96.969697	97	95.939394	96.153846	98.148148	94.230769	96.755102	-5.576462	0.0414901
PPAN	55	60.71875	60.394737	50.275229	64.837209	63.17284	63.328467	69.455446	72.475728	72.504505	64.746479	70.398649	-11.01774	0.0019348
PPARGC1I	74.384065	76.025243	68.694611	72.670788	78.929191	79.965569	78.442308	74.716196	77.359399	75.716495	75.12312	74.810732	-3.939199	0.0248504
PPEF2	78.018315	78.745098	76.276423	81.671329	84.301775	85.468354	80.861004	82.962264	82.048485	77.684729	81.561688	82.259259	-3.465654	0.0343627
PPFIA2	65.163793	68.015244	61.518987	63.734317	68.731183	68.16	67.598802	64.498851	67.161804	72.396934	70.263427	71.93617	-4.235311	0.0259949
PPIE	76.173913	61.478723	67.093023	65.193182	80.934426	67.39	75.414815	75.679245	72.988506	78.171171	70.741259	73.896296	-6.917254	0.0443032
PPL	74.183486	73.683099	80.079903	75.660422	80.734155	78.491525	77.703704	78.926778	81.096408	78.563025	81.776119	77.010485	-3.386048	0.0274137
PPM1A	43.20765	41.044248	41.257576	25.6	49.233083	62.970588	66.839161	53.461538	50.526316	52.135714	57.147059	56.311258	-18.30072	0.0013733
PPM1G	65.548117	64.744828	71.205263	58.072727	71.966667	77.403315	75.711207	70.057592	71.671569	71.451777	70.781481	74.366197	-8.033492	0.005001
PPP1R13L	57.419679	50.646429	58.779923	45.383459	56.33813	60.481605	56.450602	61.633229	65.657492	56.885027	63.133874	62.723529	-7.355564	0.0236486
PPP1R16B	70.625464	66.62531	71.824885	64.366412	77.410072	75.967807	73.420772	70.551661	73.488593	71.643056	73.089263	73.2036	-5.236335	0.0089223
PPP1R2	48.026144	42.152941	35.942857	41.981132	47.826087	41	57.198198	51.173469	61.043478	54.552632	60.826087	47.012903	-10.55334	0.0249197
PPP1R37	79.214286	76.28744	69.848485	76.485356	81.814516	81.094	84.532213	76.929705	80.097416	78.892958	82.377437	78.845036	-5.114019	0.0179972
PPP1R9A	68.326187	64.026866	58.69337	66.908805	79.481481	71.731544	73.627737	65.794059	69.099526	73.705691	72.523688	71.87218	-7.740681	0.010636
PPP2R2C	64.337785	59.907071	60.35847	61.607917	68.279221	65.365796	66.126394	63.222025	68.427751	69.453676	63.717302	65.470149	-4.704979	0.0056631
PPP2R3A	69.364919	74.903448	65.380328	66.529221	73.303109	73.793358	72.602851	74.697068	72.866162	74.707589	76.443886	74.712242	-5.096304	0.0086058
PPP2R5D	77.849624	74.793388	73.469565	72.25	86.005	78.343023	84.181818	81.685083	81.231788	84.884259	76.828467	79.324503	-6.969848	0.0038881
PPP4R1	65	73.626866	73.480315	65.16129	80.633508	63.871166	83.56746	74.263514	83.03012	79.608696	74.791822	82.078947	-8.413536	0.0493416
PPTC7	65.855586	60.626316	61.244792	59.405263	65.913208	65.153846	68.747475	61.662393	72.550781	71.23622	63.294264	70.744898	-5.629897	0.0314044
PRAMEF1	69.809524	59.875	67.857143	62.5	70	82	83.771429	71.052632	81.851852	73.4375	67.83871	78.275862	-11.01808	0.0109358
PRAMEF2	63	57.090909	69.416667	65	66.666667	75	68.258065	71.052632	82.083333	66.238095	71.052632	68.304348	-7.455077	0.0422185
PRDM13	12.081081	13.173077	7.7936508	10.335443	16.24	13.962567	14.965385	14.763975	18.022936	15.046875	12.955172	15.341216	-4.316453	0.0028898
PRDM16	75.798169	73.639063	74.044433	73.863156	75.965435	75.090852	77.737816	74.926318	75.847839	77.09589	74.75673	75.683098	-1.551792	0.0342892
PRDM2	76.851013	73.961616	71.44843	70.006198	82.704225	79.181138	85.062069	81.912621	80.641762	78.70041	79.658	76.937049	-7.532845	0.0010586
PRDM6	43.287781	34.808864	36.605016	35.428571	42.189802	47.315476	44.640884	36.979592	41.243243	45.296992	44.071895	43.856712	-5.666766	0.0207949
PRDM9	73.694118	69.318182	72.2	72.727273	75	83.333333	79.032258	70.716418	89.745763	81.967391	78.132743	79.648649	-7.712176	0.0267345
PRDX5	27.777778	25	28.571429	15.384615	32.432432	34.742857	43.684211	38.878788	43.75	18.814815	33.551724	45.325581	-12.2141	0.0317088
PREX1	79.90587	79.923151	80.665657	78.60772	78.328947	75.677617	77.534115	80.385019	77.935084	75.582126	77.064029	76.376108	2.4152187	0.0184575
PRKAA2	60.705882	53.75	58	53.513761	64.226563	65.773585	64.334928	66.72973	65.321168	74.782353	60.716418	60.743478	-8.836117	0.0059743
PRKACA	70.405333	67.855615	71.620833	72.409091	85.953782	79.32243	88.96	72.901345	78.608889	75.432727	71.910864	73.950725	-7.807377	0.0373404

PRKAR1B	82.097926	81.487196	80.598033	80.574968	84.429577	83.403777	83.918243	84.142094	83.279224	83.734287	82.21259	82.772117	-2.296958	0.0004583
PRKAR2A	81.408889	76.963455	82.156658	80.720102	86.328671	84.314961	84.58526	87.544153	87.72028	87.006873	86.507937	84.028494	-5.692303	0.0003773
PRKAR2B	72.314286	63.979452	75.03139	68	78.313433	74.631579	81.975904	88.59901	70.984733	78.014663	78.033333	76.334773	-8.529646	0.0213888
PRKCH	61.848101	64.147705	60.626134	66.042857	69.056951	70.911712	66.361381	61.307325	70.957997	69.875	71.115583	67.678571	-5.241866	0.0196635
PRKD1	69.493911	60.709302	59.729223	68.261084	70.754864	68.424171	68.405109	68.836777	71.627341	72.687679	68.865585	72.024803	-5.654911	0.01457
PRKDC	91.408922	93.318008	93.801325	89.22089	90.654795	89.482517	90.109107	90.230769	91.088083	88.972944	90.345161	88.011299	2.0754516	0.0373874
PRLHR	42.634146	35.555556	31.142857	41.111111	53.494118	44.373134	41.885417	44.424242	47.727273	51.086957	40.804124	38.728155	-7.70451	0.0350894
PRM3	50		50				100	100	100		95.833333	87.5	-46.66667	8.79E-05
PRMT2	70.663333	75.540984	75.44086	71.276836	79.899497	85.496815	82.553191	89.58	74.989691	78.681661	80.353535	72.853968	-7.320542	0.0303049
PROM1	60.534539	69.021277	56.030227	58.368	66.737209	68.194366	66.848255	67.237745	70.051685	69.513158	67.309231	66.202035	-6.7732	0.0074547
PRPF40A	74.861111	69.301587	74.603175	69.031746	83.737374	80.821918	83.268966	79.375	76.724138	81.529851	79.664948	81.261084	-8.848505	0.0002259
PRPS1	77.90625	93.181818	71.058824	86.822581	65.816667	67.868421	70.32967	66.176471	65.909091	72.371429	64.183673	65.71831	14.945652	0.0018229
PRR19	68.40625	71.73913	56.862745	57.653061	71.72549	86.153846	77.929577	74.757282	71.921053	70.792899	79.346774	60.815476	-10.515	0.0440061
PRRC1	70.548387	90.625	79.62963	73.173913	80.508475	54.463415	66.087591	63.851351	73.655914	61.028037	55.635593	69.736842	12.87333	0.0397715
PRRG4	63.737589	60.924731	55.54386	47.298851	77.328571	66.352941	64.474026	64.122222	61.290323	61.99187	66.774436	63.602339	-8.865834	0.0314419
PRSS35	80.632353	62.5	69.321429	76.666667	64.634146	48.333333	65.641026	70.37037	54.545455	64.744681	57.322034	62.028986	11.327608	0.0313456
PRSS50	77.153846	73.809524	69.736842	61.703704	87.637931	88.325	69.222222	84.555556	85.022727	89.782609	75.157895	76.914894	-11.47638	0.0262091
PRSS54	69.351351	73.214286	68.421053	81.190476	86	78.90625	79.528571	83.372093	75.935484	81.982143	81.035294	84.789474	-8.399372	0.0087023
PRTG	66.033264	68.974763	70.187755	72.481229	75.270548	75.483333	74.965779	79.452991	74.38601	71.002525	71.932496	75.509306	-5.331121	0.0072917
PSAP	81.820339	69.732484	74.888889	71.136646	81.090909	81.479592	79.263889	83.342857	82.533333	78.852174	79.222561	79.990132	-6.327341	0.010181
PSD2	62.278846	56.995798	59.095238	58.147287	74.01487	67.809339	66.41866	69.359184	77.446565	67.099707	69.268868	71.011287	-11.17427	0.0003023
PSG1	70.914894	75.588235	61.75	78.333333	78.333333	78.571429	79.918367	83.315789	85.545455	77.964286	78.513514	83.731707	-9.090119	0.0102295
PSG3	52.375	57.142857	63.636364	73.111111	70.909091	82.777778	72.68	69.641026	75.269231	82.396226	63.742857	78.546875	-12.92905	0.0169585
PSMA5	58.763359	49.451613	58.313433	61.538462	76.234043	63.063291	79.482517	85.236111	65.247525	70.179688	70.574586	67	-15.1105	0.0054
PSMD13	65.268293	64.606742	49.766234	53.085714	73.385321	70.192308	72.464567	57.955224	75.925926	62.198276	62.5	72.473684	-10.20517	0.0383218
PSPC1	77.268908	80.427046	84.406844	82.8	73.676056	74.171582	81.324034	73.890909	81.271468	76.961098	76.669118	77.97227	4.2336325	0.0493448
PSRC1	67.169492	76.785714	76.411765	69.323529	76.595745	45.642857	58.980769	50	71.673469	53.901961	44.285714	60.735294	14.695649	0.0399792
PSTPIP2	71.193407	62.902954	67.374046	63.040359	75.468843	70.599278	76.351981	69.72	66.957655	67.699482	73.77396	71.420233	-5.371238	0.0356678
PTER	80.895954	88.171429	82.318436	77.78733	88.967213	88.062147	87.471976	83.321705	86.797468	87.424837	83.704545	85.18797	-4.073946	0.047441
PTGER3	53.390244	56.923077	47.714286	51.477707	60.712644	55.982249	61.594714	57.905797	57.317073	58.004608	56.330357	54.907801	-5.468077	0.0106346
PTGS2	49.15873	26.62	52.446809	38.157895	50.780488	67.612903	68.52	64.285714	73.193548	75.793103	48.551724	44.79661	-20.0959	0.0199286
PTHLH	12.262626	17.241379	13.580247	19.5	17.206522	32.391304	30.382353	33.283951	27.256198	25.147826	24.528571	26.785714	-11.47674	0.0024823
PTK2B	76.762025	74.436652	74.389313	71.740831	78.289474	79.086022	76.919893	76.07984	75.611205	76.704718	76.07561	75.402537	-2.438957	0.0291473
PTPN20	74.4	50	80	71.428571	83.333333	92.307692	85.166667	75	100	76.923077	97.826087	78.571429	-17.18389	0.0261916
PTPN5	65.935484	65.889968	67.675768	69.458084	69.602241	67.981959	70.574953	76.23125	73.744565	72.130841	67.663685	71.769524	-3.972551	0.0315308
PTPRD	71.451038	74.661683	70.821512	75.839907	75.976471	74.22783	74.699584	75.052539	78.0187	75.782529	74.842442	76.151163	-2.400372	0.0403343
PTPRN2	76.322787	74.283708	76.034971	75.509511	78.390546	76.560802	77.256276	76.547583	78.415088	79.021296	76.894353	77.774818	-2.069851	0.0044694
PTPRO	69.940754	66.700348	65.156156	64.545775	76.490741	72.914013	74.044554	68.859551	71.414063	70.595865	70.254335	68.038012	-4.990633	0.0125869
PTPRQ	72.585965	63.809211	68.760563	61.333333	73.893617	67.640719	73.959239	72.303922	79.419753	79.510274	74.655814	77.642674	-8.255983	0.010858
PTPRS	72.556726	75.721763	68.516473	74.184271	76.092277	76.309172	77.678009	75.20245	76.029911	75.648116	74.815876	73.813605	-2.953869	0.0328249
PTPRT	69.026218	71.093521	67.6683	69.566882	72.796181	70.677672	72.352762	69.213291	73.093175	75.835201	70.75355	72.488955	-2.812618	0.0315515
PTRH2	44.310345	30.265306	54.807692	53.448276	60.685185	58.129032	56.816092	56.816901	72.222222	59.353846	65.256757	49.255102	-14.10899	0.0203457
PTTG1	18.324324	22.222222	26.923077	0	15.789474	52.380952	26.348837	42.1875	34.482759	28.846154	25.666667	50	-17.59539	0.0443286
PWWP2A	49.737288	52.210938	45.338983	55.555556	71.818182	55.121951	74.682292	72.195313	50.118519	68.988235	58.066946	58.266667	-12.94657	0.0265145
PXDNL	77.734133	72.205797	74.029451	76.422665	76.727376	79.754505	79.220438	78.366292	78.264544	78.794714	77.443501	78.762712	-3.318749	0.0062695
PXMP2	65.81746	65.328467	51.825806	59.88125	87.455446	81.798165	78.346821	80.859375	76.449664	77.671958	68.071749	66.004329	-16.36894	0.0031158
PXYLP1	71.824859	75.518692	67.260465	65.913462	75.835341	75.128405	78.030303	81.493878	78.67803	74.695015	73.667526	75.949875	-6.555427	0.0076673
PYGB	79.719444	75.53352	80.240695	80.242647	83.069712	87.868251	88.877419	77.392931	84.676171	86.526515	84.37401	82.309769	-5.452771	0.0217219
QARS1	61.452632	65.57377	43.655172	58.573529	79.850746	70.591549	62.64	61.818182	61.32	70.989247	63.541667	73.349515	-10.69884	0.0461597
QPCT	65.242857	54.487179	62.563636	50.349057	70.108696	74.253012	78.186047	70.7	71.428571	62.679104	73.896774	63.613139	-12.44749	0.0057778
R3HDM2	85.552239	87.164969	85.551351	86.236897	90.737389	87.644262	89.355191	85.750392	89.38943	89.461627	86.71831	86.669058	-2.089343	0.0497149
RAB11FIP4	70.189453	66.213384	72.457649	69.264948	74.119962	74.995296	76.403623	75.216856	76.927254	73.258592	74.404869	73.721464	-5.349631	0.0006023
RAB3D	73.181373	63.830189	63.162791	65.555556	70.751351	74.977528	79.54321	74.448485	79.842466	63.961353	74.46696	69.506173	-7.004714	0.0483754
RAB6B	62.927184	67.191617	63.440909	73.376812	78.933594	71.486301	74.04712	69.597701	77.234615	80.529412	66.790043	70.160714	-6.863307	0.0445401
RABEP1	83.62862	77.508361	79.430267	83.080268	83.747368	85.781407	93.589565	85.894737	88.298544	84.484848	84.517291	83.56994	-5.323584	0.0223964
RABGEF1	80.711688	90.298246	91.666667	88.108108	85.992032	77.92607	80.754717	82.671296	84.069498	79.541076	83.76247	81.260965	5.6989116	0.0228387
RABIF	44.91129	43.902439	39.885246	27.88764	64.150685	51.518072	48.842466	61.948052	43.333333	47.064935	42.460938	48.80597	-11.8689	0.0350683
RAD21	31.695652	39.189189	25	38.709677	63.054054	36.71875	70	25.961538	58.823529	56.657143	47.865546	53.08642	-17.87224	0.042495
RALGAPA	83.743325	89.460163	90.134848	85.551627	85.771395	80.80695	82.923141	82.938903	86.383459	84.580357	82.173077	85.244461	3.3697729	0.0404963
RANBP17	72.404459	70.712274	75.007752	71.004435	79.287671	77.030019	78.063291	74.480663	79.547059	76.086514	73.732093	80.712756	-5.085279	0.0053364
RAP2B	12.188034	12.216667	3.2608696	5.7692308	26.542373	11.742857	12.197183	26.092105	10.344828	20.454545	18.446602	19.270073	-9.77762	0.0208669
RAPGEF4	68.881466	68.443775	70.032075	71.592437	74.856721	75.59894	76.402426	73.611966	71.878315	76.889406	72.090989	76.738676	-5.020992	0.0013108
RAPGEFL1	64.947826	58.973913	74.038835	65.495935	65.862069	59	58.229358	61.305732	51.209877	58.38565	57.113537	59.868526	6.9922836	0.0397573
RAPSN	87.253623	78	81.42623	81.142857	84.714286	91.901786	89.891473	88.542553	92	89.762376	85.719697	92.031447	-7.364775	0.0035942
RARB	72.157978	75.453333	77.97201	75.358696	76.331906	79.375	77.554859	76.04721	79.972973	81.427861	79.592258	77.115646	-3.19171	0.0310486
RARRES2	33.780822	20.121951	33.823529	33.422535	46.446809	31.175676	34.25641	45.511111	36.693548	49.232558	43	33.742268	-9.720088	0.0422143
RASA2	65.116071	57.921569	68.666667	67.905405	74.951111	75.081218	74.801917	86.17037	86.628019	73.814126	80.881356	73.06006	-13.27109	0.0024539
RASA4B	54.221154	66.666667	61.170213	55.490566	70.369231	74.9	63.622222	68.582524	84.482759	79.229508	70.102273	55.644737	-11.47951	0.0436801
RASGRF1	67.555024	69.570265	65.418511	71.681973	69.885023	71.10559	71.643275	69.319555	72.750789	70.807923	73.164103	70.942571	-2.64591	0.0401457
RASGRF2	77.673605	82.162069	78.904401	76.309701	84.575839	83.441041	83.018349	82.751145	83.616667	79.873354	81.796809	79.300081	-3.534217	0.0191888
RASIP1	60.946667	53.065359	59.175159	48.392694	69.664596	60.171206	55.418546	64.371841	60.017544	68.535613	61.531017	65.163895	-7.714313	0.032438
RASSF10	8.7518797	2.1714286	6.7931034	3.4722222	11.240385	9.6122449	10.392857	15.638889	11.947368	10.157407	11.616541	7	-5.653553	0.0056151
RBFOX1	70.182456	70.998235	71.158175	72.345283	73.551195	72.449929	73.302348	71.87745	74.486802	77.072925	73.269647	74.085565	-2.590945	0.0131026
RBM19	88.566817	87.268613	88.265185	88.866142	90.752753	89.962398	90.538342	90.648822	89.338692	88.71504	88.858504	87.910283	-1.348915	0.0439436
RBM22	52.763158	31.111111	26.285714	35.375	41.653846	48.212766	51.73494	42.137255	58.395349	49.373333	57.895522	51.604396	-13.74218	0.0209528
RBM24	32.528846	19.211765	36.567164	39.68254	49.723077	49.725806	32.784	45.505376	56.096386	53.579439	37.617021	34.058824	-12.88866	0.0413058
RBM27	84.107042	75.35	80.065359	87.5	88.282511	92.275	88.9	87.737069	90.051502	84.208609	84.841629	90.786967	-6.629811	0.0151115
RBMXL2	65.027273	59.575	61.538462	46.108108	79.323529	71.862745	73.663462	88.475	68.442623	55.846154	87.115385	81.509259	-17.71756	0.0164901
RBP7	54.206278	62.065217	48.167883	54.217391	70.789157	67.084906	70.251185	74.618321	66.656489	75.212291	64.042017	62.517544	-14.2323	0.0008848
RBPMS	75.913641	71.309717	74.733459	74.115732	79.094617	80.199656	81.272727	80.360317	73.980303	79.756381	76.298327	75.78405	-4.32516	0.016205
RBX1	73.317647	60.697248	67.054264	69.520548	75	69.65812	77.109375	72.318584	68.612613	76.682759	74.623711	76.098522	-6.115534	0.0304622
RCC1	71.120846	60.067797	64.185393	60.55	81.167513	73.145833	70.940984	66.364865	80.256522	78.032	77.651007	71.358974	-10.8837	0.0063759
RD3	67.45977	63.178571	63.23	67.803738	80.944	79.742188	77.601307	72.98	76.439024	83.892857	74.573864	79.235	-12.75801	8.12E-05
RD3L	86.6	83.333333	80	83.333333	100	100	95	92.363636	100	80	94.444444	85.333333	-10.07601	0.0266865
RDX	65.768382	51.360544	59.805714	53.85	66.293532	69.533333	63.124542	66.205	64.82684	68.287402	69.353312	70.813793	-9.608559	0.0036361
REEP1	69.493333	66.169231	62.821429	69.64554	71.070393	75.685851	73.912676	77.694236	71.932401	73.909238	71.110814	72.498177	-6.44434	0.0025091
RELCH	73.048128	70.32967	67.268293	66.40625	80.21374	66.464286	73.565657	80.980952	80.369565	80.689655	77.3	74.30137	-7.472568	0.0233595

RELN	67.553295	65.815789	68.375246	61.841441	73.623688	65.423193	72.104967	68.554517	77.268613	72.400844	69.666416	72.965961	-5.604582	0.0225461
RET	58.239272	55.535545	61.59126	65.616848	63.568182	68.140704	64.199067	59.684337	69.543578	66.744879	64.923197	66.647218	-5.185664	0.0361564
RFK	24.383562	22.222222	19.354839	31.067797	25	47.142857	39.285714	44.932203	43.367347	45.954545	27.472973	31.144578	-13.78042	0.0174743
RFTN2	84.99435	81.849246	83.86802	82.709877	86.173228	92.112994	89.016129	87.00939	91.544601	81.660194	86.420366	85.451697	-4.068202	0.047981
RFX8	70.498208	70.708861	68.267717	69.890625	70.634085	70.416667	76.627451	77.951009	73.141089	73.123047	72.397476	71.345794	-3.363225	0.043322
RGPD2	38.368421	20.651163	58.863636	19.813333	36.153846	59.09589	66.655556	62.765957	52.016129	57.461538	49.458333	58.495327	-20.83868	0.0240614
RGS13	79.461538	76.666667	78.571429	71.052632	81.772727	85	86.842105	90.666667	85.28	91.473684	90.697674	89.075	-11.16292	0.0004355
RGS17	61.246875	46.8125	58.224044	69.15748	64.956311	66.538043	69.22884	76.55625	61.967213	67.851563	69.522277	64.405797	-8.768062	0.0456906
RGS22	74.21547	69.063584	76.215686	71.875	76.447619	80.201717	74.44	75.812207	83.012712	82.55597	78.540943	79.241573	-5.939158	0.0106951
RGS7BP	53.046763	45.57265	49.330827	48.213115	60.989848	53.757225	53.133333	57.203884	58.449198	62.086066	56.555147	67.492163	-9.667519	0.0043267
RHBDL2	80.26393	82.440994	82.797101	82.682203	86.3861	85.910714	83.813514	84.56422	84.99095	87.973064	85.090226	85.75266	-3.514124	0.0009778
RIC1	71.979434	72.666667	71.903101	70.776596	79.714286	73.748175	77.443864	73.147287	82.477273	80.146006	74.622549	77.621027	-5.533609	0.0094747
RIMS1	66.362963	56.145877	59.263158	65.990074	70.043328	67.228319	66.614331	64.318505	70.4375	69.900798	68.768939	72.009381	-6.724619	0.0099044
RIMS2	69.881034	64.854914	66.818323	71.462687	71.956763	74.278932	75.270492	67.373096	75.032059	74.812727	70.26601	70.572222	-4.191048	0.0402621
RINL	51.54	38.271605	35.9375	54.118812	68.08547	58.454545	54.300752	59.666667	57.263158	59.785714	55.169492	53.803922	-13.34924	0.0062717
RIPOR2	72.48741	72.40273	70.805556	75.461806	79.142442	73.862857	76.650089	79.723684	75.140306	77.863636	76.431438	79.376206	-4.484457	0.005383
RNASE11	90	100	87.5	100	81.818182	80.684211	84.137931	78	91.666667	60	82.565217	83.870968	14.032103	0.0216751
RNASEH2I	47.884393	35.9375	42.294872	40.54878	61.965812	72.75	59.2875	75.694444	54.040404	65.587629	53.29	51.166667	-20.05642	0.0023056
RNASEK	9.2222222	4.4117647	0	5.5555556	8.0645161	17.888889	14.724638	12.903226	15.948276	8.1578947	8.3333333	7.6129032	-6.906824	0.0192997
RNF115	81.950249	73.060606	82.005495	74.259669	86.989583	89.824176	83.644186	80.120879	82.384279	83.827922	82.509395	78.583138	-5.66644	0.0432755
RNF126	63.888469	63.444444	68.927481	51.716814	68.817143	64.719677	70.015038	71.933798	74.414013	73.839506	63.987179	66.36129	-7.266653	0.0460423
RNF133	75	50	33.333333		100	100	91.666667	100	75	100	46.6	68.75	-32.47431	0.0413674
RNF141	45.786517	32.727273	42.105263	51.351351	63.793103	53.508772	72.142857	72.075	63.968254	62.404762	53.606742	72	-21.19484	0.0011989
RNF144A	76.298088	74.924949	76.130261	74.500975	81	82.496633	77.277778	81.363958	75.473597	76.878016	80.587729	75.775202	-3.393046	0.0424669
RNF144B	71.151659	72.178218	68.456	71.258621	72.769231	75.438596	76.932489	83.554839	77.294118	70.945055	73.931624	73.905138	-4.835262	0.0392868
RNF145	49.308642	32.954545	49.588235	36.982456	65.629213	63.16	69.908451	37.670103	79.217949	50.30597	53.134831	51.752688	-16.63893	0.0460307
RNF150	57.625	58.832853	64.814332	53.576433	63.036649	61.367978	67.061514	63.377717	70.738903	74.701431	67.446176	66.660266	-8.086675	0.0142174
RNF169	69.402439	65.714286	63.815789	73.091503	76.055085	79.945122	76.142857	73.434043	71.955157	76.671687	73.766756	76.849432	-7.596513	0.0023423
RNF170	70.647059	71.09375	70.435754	74.230769	73.462882	79.014184	78.958802	77.526596	79.054054	78.131783	79.52921	72.913223	-5.722009	0.00304
RNF180	66.853125	58.04142	58.721925	70.5125	75.293578	67.849246	70.449468	75.502825	72.423645	68.858934	68.424691	67.217494	-7.220243	0.021866
RNF187	40.622642	39.474747	30.243697	29.386207	39.165138	39.228346	53.341772	33.852113	55.075758	53.101695	43.64	44.089385	-10.25495	0.0453032
RNF212	77.98829	68.286486	74.707113	72.034615	76.459941	81.268657	75.718905	79.921502	74.827815	77.572626	78.797327	76.033755	-4.32094	0.0368779
RNF215	64.820896	50.93	54.63	45.285714	76.078652	58.635659	72.216	75.352381	72.06087	68.209302	64.931507	66.22695	-15.29726	0.0038147
RNF43	88.147982	84.131034	82.805031	87.242424	85.27439	79.377778	77.603448	84.296512	80.690058	84.975124	79.904412	82.206107	3.7906394	0.0485725
RNF6	28.717949	24.086957	25.757576	25.756098	39.42623	40.561404	43.232558	36.263889	45.313725	36.071429	45.666667	33.089888	-13.87358	0.0002069
RNPEPL1	60.586538	54.130719	62.884146	50.418605	63.983146	76.528736	67.009009	75	69.098522	77.657895	65.709016	55.216667	-11.77037	0.0212454
RNPS1	58.336207	42.857143	65.427481	49.007937	70.407143	71.907407	72.348485	81.892157	72.277228	66.963542	69.150838	63.718615	-17.17598	0.002563
ROBO1	69.277003	72.395371	69.584545	73.120574	74.034237	72.683292	71.611738	70.782229	76.919379	75.127018	74.393939	75.361275	-2.769765	0.0491301
ROBO2	77.784119	74	75.927536	77.138434	78.521405	75.972067	77.242894	77.792892	81.392857	80.629223	78.460276	79.991239	-2.537834	0.041431
ROPN1B	50	38.461538	71.73913	50	76.666667	66.636364	89.318182	71.65	61.029412	70.192308	63.390625	59.701493	-17.27296	0.0297883
ROR1	61.396863	63.136499	62.499268	68.223373	69.123353	65.990591	71.619203	64.092545	69.91616	69.572093	67.340735	72.134181	-4.909607	0.0180473
ROR2	72.372549	71.851852	76.949715	72.120626	78.407087	78.220169	74.627833	77.507719	77.754399	78.804808	74.258612	76.709144	-3.712536	0.0113985
RORA	71.931923	72.199629	74.131404	75.775033	76.065891	77.531116	76.399559	72.757816	76.642185	79.308219	76.353111	76.84038	-2.977787	0.0232705
ROS1	68.95614	74.382353	75.282759	73.566038	75.465116	75.288732	76.865942	75.972028	79.589744	81.288462	81.28012	77.75	-4.890696	0.0115755
RPA2	78.048077	88.235294	87.523364	91.509434	77.826446	82.644628	82.222222	69.627907	76.164634	75.575269	79.736585	75.95	8.8605809	0.0121303
RPAP3	70.592	78.409091	54.487179	38.636364	86.012658	74.719101	70.735714	69.375	89.855072	74.982759	78.887218	73.872727	-16.77387	0.0373085
RPEL1	86.363636	76.923077	83.333333	100	77.666667	66.666667	80		33	53.2	59.666667	79	22.483583	0.0416423
RPGRIP1	81.297189	83.248826	84.796875	78.258621	79.498516	76.759531	80.442396	78.764331	75.604361	75.942786	78.440882	78.462406	3.9109765	0.012765
RPL12	17.839286	9.32	20.702703	12.068966	18.633333	26	25.943396	26.923077	20.203704	25.872727	14.5	21.666667	-7.485125	0.0265922
RPL13	25.205479	17.756098	24	21.710526	38.233333	30.805755	25.401235	35.533333	31.03	25.790419	24.054348	22.95302	-7.057155	0.0443898
RPL13A	26.415584	28.484848	13.043478	22.916667	33.559322	25.520833	42.792683	43.288136	41.171429	54.873016	34.74	49.276596	-17.93761	0.0067962
RPL18	35.113208	55.172414	57.575758	49.795455	35.808511	36.065574	38.425926	19.444444	39.102041	50	36.685185	38.190476	12.698939	0.0419575
RPL22	63.439024	57.447368	56.166667	63.923913	83.714286	68.95082	73.852761	69.12	76.485437	77.530612	68.125654	66.396739	-12.7778	0.0032628
RPL27A	21.541935	1.6393443	13.793103	15.341463	24.782051	21.830986	19.058824	27.037037	27.977612	22.604167	28.356589	23.926667	-11.36778	0.0057814
RPL28	34.307143	40.122449	38.934426	38.442308	50.56	49.106667	44.967742	38.059701	37.860465	40.705882	43.918182	44.936364	-5.812794	0.0458846
RPL3	36.404762	36.530864	25.974026	46	47.86	54.903846	49.866071	53.75	52.060241	42.626168	45.73913	46.96748	-12.9942	0.003946
RPL4	27.627451	32.173913	32.30303	27.272727	36.470588	47.104167	43.814286	39.130435	37.282609	50.2	57.026667	48.653061	-15.11595	0.0025138
RPP38	47.485714	34.090909	36.885246	30.87931	44.018868	42.96875	56.247619	53.155172	48.989899	47.792793	53.333333	57.589286	-13.17667	0.0050484
RPS19	47.755319	49.621212	49.133333	49.79845	55.857143	54.473684	52.564593	56.445946	54.549618	62.88125	59.372881	54.37069	-7.237397	0.0018619
RPS24	64.73913	77.777778	57.142857	22	24.044444	22.916667	46.974359	18.75	36.285714	41.636364	44.166667	35.4	21.643165	0.0493172
RPS29	6.4516129	0	4.7142857	0	7.5757576	37.5	17.652174	3.8461538	7.5	29.090909	12.962963	22.825397	-14.57769	0.0386385
RPS4Y2		72.727273	75		88.888889	80	85.885714		77.272727	85.714286		79.824176	-9.067329	0.0376756
RPS6KL1	80.199234	68.666667	76.224806	74.886957	80.277108	80.042017	79.090909	85.509434	81.901408	87.391061	85.370536	79.371795	-7.374868	0.0096469
RPS8	20.747573	15.789474	23.333333	23.393617	42.59322	49.977273	24	27.20339	32.875	27.114583	24.009434	32.386364	-11.70391	0.0388864
RPUSD4	58.857143	60.377358	77.071429	67.5	53.666667	43.016667	55.402299	48.716981	64.833333	53.447917	53.87234	59.777778	11.859735	0.0217694
RRAS	48.211765	35.714286	32.142857	40.507937	56.779661	50	59.022989	41	59.87037	54.833333	55.189189	59.823529	-15.42067	0.0032819
RRM1	70.7875	66.183908	71.495238	70.277108	83.704545	74.959016	85.792929	70.328671	75.217391	76.789189	80.363636	73.831683	-7.937444	0.0177958
RTL5	54.371134	13.636364	45.652174	52.439024	81.666667	61.369565	57.333333	75.787879	66.666667	77.5	59.733333	57.869565	-25.7162	0.0097978
RTL8C	50.731707	28.571429	74.324324	100	36.023256	29.62963	8.6956522	31.578947	51.230769	7.3529412	50		32.762409	0.0477143
RTN1	66.931852	64.502717	63.665105	71.588391	73.534021	73.19898	69.73029	68.590805	73.257028	72.284053	69.35553	73.791614	-5.045774	0.0108872
RTN2	46.946939	46.78882	52.328859	54.294479	62.666667	61.677852	58.986175	53.608392	55.495868	52.516854	53.60515	51.707965	-6.193341	0.0343765
RTP5	53.478261	70.181818	57.142857	60.3	79.945946	72.084746	88.834951	81.081081	78.307692	75.743802	69.00885	76.073395	-17.35932	0.0012636
RUBCNL	65.117021	60.508475	66.153846	59.231293	64.421053	79.906433	71.926829	67.741259	69.84058	69.27451	72.055385	63.878338	-7.12789	0.0308373
RUFY4	68.262069	62.728571	71.126761	72.746667	72.936937	77.957895	81.304965	74.488095	88.914634	72.6	71.929078	76.30303	-8.338312	0.0294736
RUNDC3B	70.563758	61.258278	64.65368	62.369942	86.565714	81.897143	78.133523	77.933735	73.472906	75.247649	71.206799	76.577259	-12.91793	0.0010658
RUNX1T1	52.796943	47.894531	49.111111	59.502646	68.988338	64.389313	59.432171	51.371841	61.560606	60.008547	56.554529	61.715094	-8.176247	0.0283122
RXFP2	73.665094	74.129032	76.691358	80.017699	90.38	80.162602	82.302083	78.171875	79.97076	87.73224	81.990868	80.649289	-6.544169	0.0198587
RYK	69.583051	55.319767	62.775281	60.785366	80.078818	81.943396	72.846667	67.763736	82.336788	74.032847	75.392758	69.991429	-13.43244	0.0028558
RYR1	77.203222	78.595608	77.993145	79.597865	80.600432	83.399383	80.025263	78.488372	81.523237	81.606507	79.842304	79.9784	-2.335527	0.0185596
RYR3	73.548461	73.856401	75.806071	76.09228	76.706471	76.064567	77.57675	75.299697	76.872393	76.112633	74.909415	77.350491	-1.535749	0.0404162
S100A3	86.666667	70.8	73.2	58.25	87.5625	90.909091	88.75	81.916667	95.214286	83.5	89.090909	79.888889	-14.87488	0.009931
S100PBP	64.995556	62.465649	70.717105	60.137615	78.017442	61.8625	76.260536	77.677966	69.346154	74.781513	73.553333	73.253968	-8.515195	0.0214162
SAMD14	49.701923	37.782857	45.601449	49.32967	54.414966	52.348387	50.537815	54.380711	53.033784	60.786026	45.540351	51.133739	-7.167997	0.0321723
SAMD15	76.146067	68.962264	60.666667	65.676471	70.328358	75.446429	77.583333	74.873563	74.863636	76.473118	79.587719	72.470085	-7.340413	0.0190745
SAMSN1	61.707547	72.641026	69.169811	71.428571	67.134328	76.811594	80.759615	75	86.619718	81.275	70.91453	79.991803	-8.576585	0.0380038
SARS2	76.118721	71.517007	75.429825	67.594406	84.791667	85.708861	71.904959	76.412791	78.020979	85.469388	81.327586	78.463035	-7.597418	0.0240036
SBF2	83.57253	84.106294	82.389535	82.040353	84.804264	87.099352	85.132872	82.527174	85.707436	87.49684	84.06846	84.41971	-2.129836	0.037905

SBSPON	66.497238	51.632075	62.040541	54.490909	76.25	65.032609	60.993865	67.256198	68.929577	67.466165	65.906077	66.024752	-8.567215	0.0227708
SCAF11	59.457143	60.201342	47.59589	49.142857	65.973333	73.021583	61.722513	67.96875	57.057971	59.623037	68.751111	66.09633	-10.92752	0.0106796
SCAMP1	74.1843	76.927711	72.22043	70.611842	80.578431	74.781991	80.136808	75.673077	79.208791	74.565657	78.556886	79.806349	-4.427428	0.0183062
SCARA5	71.650794	69.334123	68.653153	67.466403	70.431953	73.055829	71.957245	71.606586	72.128623	71.361413	71.651747	73.226006	-2.651307	0.0054459
SCFD2	86.782095	86.483713	87.98452	84.83153	88.985194	88.742025	89.437768	87.825871	89.509414	88.506634	87.123509	86.001436	-1.746017	0.0445145
SCG3	70.827068	69.181818	65.369048	79.607143	83.102041	76.556604	76.716418	77.697674	82.697248	84.12069	76.487179	85.560284	-9.120998	0.0090485
SCLY	73.013021	74.5	77.716102	74.582524	79.930041	82.124481	72.920424	83.384956	78.470588	79.884146	79.858124	77.012048	-4.245189	0.0378301
SCML4	76.368043	77.992958	73.212454	77.303333	80.017588	79.150246	81.345455	75.485714	77.903846	81.918	80.976303	79.740433	-3.348001	0.0260554
SCNN1G	59.504167	59.378698	59.341969	53.844086	61.111732	70.444444	66.885593	66.939189	65.22973	66.115207	63.45993	67.210317	-7.907288	0.0009045
SCRIB	77.920128	76.069909	74.33677	72.811245	81.023438	78.555891	79.826786	75.320359	84.470726	76.945674	84.299335	78.924953	-4.636382	0.0291448
SCUBE1	74.212674	75.147727	71.882404	73.620098	77.337151	75.366528	77.666494	73.533426	80.734271	79.991573	76.473711	76.717669	-3.511877	0.0207661
SDHA	71.766749	62.052	66.34629	62.204188	71.507788	73.972603	73.394872	81.644531	79.586331	66.454861	77.208817	73.485356	-9.064588	0.0106033
SDHD	84.517857	60.457143	52	51.724138	74.489796	79.787234	75.193548	88.090909	75.87234	76.096154	88.42029	72.367089	-16.61489	0.0209861
SDK1	77.60688	76.215015	76.002714	79.21956	80.678036	78.763774	80.718061	77.194881	81.187485	82.584188	79.672641	80.044343	-2.844384	0.0150147
SDR42E1	83.858268	60.344828	56.4	69.793103	74.972603	89.878788	79.151515	78.788732	82.53012	77.13	74.898734	73.773723	-11.29148	0.0441387
SEC14L5	71.968661	70.419355	68.54712	67.095571	71.903226	72.046218	74.817656	72.626243	69.375	75.266667	73.005666	70.027963	-2.875903	0.0475256
SEC22C	73.314516	56.153846	67.366197	60.209677	84.933333	65.59	70.314961	75	85.052083	67.826087	71.951049	74.825806	-10.17561	0.0476407
SEC24A	84.311234	82.25256	77.542435	85.419142	88.642857	88.380952	86.489091	89.081967	88.291545	88.157143	89.609236	86.721541	-5.790449	0.001174
SEC24D	86.0375	87.709497	86.492308	89.635135	78.378723	82.894009	80.492492	75.38806	76.784232	82.633634	81.764045	75.586006	8.2284598	0.0006329
SEC61B	36.346154	39.307692	26.833333	43.103448	38	47.179487	50.803571	51.217391	64.864865	56.481481	49.423729	48.555556	-14.4181	0.0103521
SELE	86.315789	100	94.117647	100	71.066667	90.8	86.264706	79.761905	78.571429	90.384615	75.961538	83.928571	13.01593	0.0111489
SELENOK	31.25	21.383333	25.347826	17.777778	31.25	22.972973	49.253731	48.692308	38.235294	24.055556	35.018519	43.311111	-12.65895	0.0464474
SELENON	66.684825	65.146853	69.8	63.933333	72.880597	75.689655	68.191964	82.015038	82.051948	72.463087	64.288	81.719828	-8.521262	0.0372394
SELENOV	36.642105	16.176471	40.217391	38.461538	51.885714	37.80597	59.123288	48.404762	44.745098	46.358333	41	39.431193	-13.21992	0.029838
SEMA4F	62.863874	64.663043	51.136364	49.166667	77.862385	75.235849	65.52	71.663636	74.018018	68.666667	65.905473	71.948187	-14.39504	0.0020608
SEMA5A	67.961618	69.927419	64.49829	67.166667	68.637537	69.28101	71.324096	66.715407	74.108715	71.123919	71.433121	72.521288	-3.254639	0.0441593
SEMA5B	64.93107	61.251969	65.901053	65.418149	67.096386	65.983025	67.871854	65.913194	70.347445	68.911942	69.091189	66.092955	-3.287938	0.0143943
SENP5	76.032432	64.805785	72.410377	69.753968	80.275081	86.901345	81.324742	82.612403	83.574675	80.470968	76.806794	83.669136	-11.20375	0.0004732
SEPHS2	29.46875	20.588235	27.5	24.324324	36.806452	29.215686	39.432432	41.176471	41.509434	32.142857	44.9	35.390625	-12.10142	0.0022442
SERPINA3	74.558824	54.148148	68.785714	66.428571	79.419355	70.382979	81.012346	68.372549	75.037736	73.217391	73.025316	72.325581	-8.118842	0.0490051
SERPINA5	76.650602	71.4	59.222222	66.142857	70	74.118644	82.670886	75.763158	80.08	81.123077	70.333333	82.4875	-8.718154	0.038736
SERPINB1	67	66.558824	63.2	66.304348	65.740741	71.25	75.703125	66.4	86.555556	87.046154	72.754386	80.53125	-9.981859	0.0426763
SERPINB3	90	66.666667	75	75	92.307692	85.714286	78	100	88.461538	100	86.173913	88.461538	-13.2232	0.024842
SERPINC1	84.663462	86.54386	91.279412	88.20339	92.345679	94.224719	89.803738	92.103896	93.653333	89.070588	94.507576	93.551402	-4.735086	0.0069528
SERPINE3	84.020833	80.684211	80.555556	83.325	91.666667	81.72973	84.684211	88.555556	90.357143	86.491803	90.96875	92.907407	-6.273758	0.0122856
SERPINI2	71.824324	71.428571	73.529412	82.432432	87.98	76.351351	88.224138	82.78125	73.809524	87	89.03125	79.608696	-8.294591	0.038807
SETD1A	84.264646	86.781609	82.254125	88.1777	79.067024	74.486405	83.414683	77.019672	88.81982	76.842482	76.812854	77.489451	6.1254714	0.0366814
SEZ6L	65.697608	62.372727	64.928322	65.279661	69.605882	70.456556	68.11101	70.836461	71.307181	74.369697	66.176672	66.782041	-5.136108	0.0054449
SFSWAP	88.954639	82.753846	85.026749	80.593407	89.98209	90.758197	88.731935	89.719118	88.472834	87.291667	88.969512	84.513094	-4.222645	0.0219051
SFTPA2	51.371429	40	42.6875	69.32	71.590909	69.53125	67.314286	66.83871	84.35	72.724138	75.578947	72.764706	-21.74189	0.0020926
SFXN1	71.505618	72.888268	67.56701	70.027174	73.471698	71.453744	80.036932	73.603846	84.714286	74.670968	73.138158	76.873711	-5.4984	0.0436292
SFXN5	74.434236	73.701695	71.340323	76.178125	79.033973	76.604859	74.917355	79.103817	78.013569	78.128472	76.973555	77.253571	-3.590052	0.0042871
SGCG	77.62549	75.311024	78.034268	80.203252	81.931707	79.712644	80.610435	80.637462	84.335664	84.517598	78.750367	80.778963	-3.615847	0.0164812
SGCZ	70.484551	70.225751	71.281567	70.373047	73.534121	75.230456	76.254455	74.325127	73.987835	77.23238	73.776091	76.03635	-4.455873	9.25E-05
SH2B3	67.027778	62.772388	62.646865	61.161194	71.306533	64.189781	74.132321	66.228571	65.75	64.616915	71.249489	67.207143	-4.683038	0.0461532
SH2D4B	81.645161	78.345515	75.621469	79.979651	78.964871	82.284289	81.184255	82.157107	85.186047	84.80396	83.952381	82.355685	-3.713125	0.0205662
SH3BGR	80.845794	87.118182	80.645161	76.784483	85.044025	89.796178	84.970297	84.722973	85.787565	84.176136	84.761905	84.827715	-4.162444	0.0345149
SH3D21	44.00431	33.928571	53.819672	39.125984	64.908257	55.670455	60.209302	40.801724	66.101695	51.309353	56.635071	50.195455	-13.00928	0.0294777
SH3PXD2E	73.963918	71.477695	75.920956	75.88855	78.690566	79.178273	79.447926	75.473103	80.909222	82.890496	75.396144	79.666102	-4.643699	0.010448
SHANK2	74.391274	74.711779	73.433351	75.141496	76.104588	75.73	77.597149	75.644703	77.799387	78.799932	75.038881	76.50225	-2.232636	0.0099158
SHB	67.854839	65.348168	64.008357	66.115242	71.269639	68.538803	67.864745	68.168122	70.763731	71.573248	66.77283	72.40978	-3.838461	0.0091154
SHC2	74.299357	71.608871	74.333333	72.599303	77.407859	78.673282	82.542543	82.580595	78.745763	80.455369	78.985626	73.861446	-5.946344	0.0029302
SHCBP1	65.58042	62.631579	59.6	57.843137	68.783784	72.222222	71.269006	70.578431	66.2	71.933333	74.562874	68.258242	-9.062203	0.0004492
SHCBP1L	71.239437	59.511278	53.682432	74.89916	78.887417	67.895062	79.766055	79.57971	85.086093	72.15873	70.54717	70.908046	-10.77046	0.0388501
SHH	15.993576	8.3628692	9.3223443	10.778878	15.840989	16.97153	15.319838	15.003891	13.509859	12.914894	14.237006	14.627083	-3.68872	0.0188883
SHISA4	21.383562	28.470588	21.854167	16.9	39.333333	49	42.784615	53.25	48.969697	53.075	37.09434	19.865672	-20.7695	0.0055649
SHISA9	65.568099	67.436185	64.660904	65.213351	68.846231	67.613445	68.796309	67.320162	70.563117	70.002488	67.826597	71.206478	-3.302219	0.0028291
SHMT1	77.751958	79.271845	80.223464	70.137441	86.698745	79.475472	79.453368	86.603704	85.653846	79.671642	79.678657	81.727711	-5.524216	0.0379143
SIAH1	41.964286	42.261905	50.170213	42.857143	66.8125	65.211268	54.802395	60.65	58.027027	45.132353	53.651786	41.21645	-11.37459	0.0395646
SIAH2	36.770833	43.506494	35.241379	51.548673	64.057692	56.952941	52.363014	70.595506	63.440367	47.410448	42.620192	46.970443	-13.78448	0.0344518
SIGLEC11	66.645161	62.109091	59.615385	66.233766	77.607595	79.604938	71.796296	77.835443	68.13253	68.76	78.773109	67.752	-10.13189	0.0055893
SIGMAR1	26.428571	22.857143	20.833333	20	42.424242	28	23.757576	41.875	32.727273	34.078431	33.565217	21.189189	-9.672354	0.0382773
SIK3	78.252815	79.584871	77.341603	75.358763	83.917342	81.358025	83.483871	79.937861	81.925764	82.001098	82.702586	78.984836	-4.15441	0.0026509
SINHCAF	42.648094	42.505495	40.005435	40.102679	53.541667	46.71564	57.181507	58.728723	47.504854	39.288961	45.429752	54.982759	-9.106307	0.0257003
SIRT7	54.298165	60	68.157895	50.252033	91.85	66.133858	72.704301	68.98374	85.447059	85.052632	70.36129	56.798817	-16.48944	0.0306822
SLAMF9	63.2	66.666667	47.875	21.428571	85.714286	43.75	66.071429	80	67.666667	78.3	73.933333	76	-21.6369	0.0469727
SLC12A2	62.535865	52.663317	68.867647	57.191781	75.927152	76.664286	73.369748	60.759494	78.482558	81.435897	71.836923	73.491468	-13.68129	0.0059659
SLC12A4	71.5925	68.578723	72.803922	63.858537	79.538721	83.948	80.231928	84.285124	87.095023	81.141304	80.085294	70.062035	-11.59001	0.0026389
SLC13A3	71.105495	62.700348	64.181034	57.658009	70.410405	66.537671	70.869099	67	70.798046	74.835411	71.583178	71.888686	-6.57909	0.0173611
SLC15A5	72.559322	62.424658	65.116279	65.666667	71.666667	71.102564	74.333333	69.186813	73.321739	78.455285	72.902439	78.037736	-7.184091	0.0086166
SLC16A14	62.653386	47.202797	50	47.047244	64.810458	63.398438	52.853211	55.561644	61.005618	57.939086	59.433476	62.258929	-7.93175	0.0343739
SLC17A7	38.988764	35.420455	33.634021	31.860294	46.352941	42.488889	38.111524	40.65896	52.213793	44.060748	41.75945	34.596296	-7.554442	0.0264859
SLC18A2	61.255814	50.26738	55.802548	64.516129	62.387097	65.939394	64.320158	62.30137	63.5	58.612	64.835664	65.069686	-5.410204	0.0486577
SLC18B1	73.675159	73.42029	57.28125	67.361111	80.715596	82.911392	88.717172	73.505263	81.060606	72.551724	76.454545	79.590909	-11.50395	0.0115447
SLC19A1	85.989691	87.409266	91.420712	80.824373	82.652174	79.611446	85.277014	85.167183	81.593168	78.846797	78.952286	80.446691	4.8426657	0.0346139
SLC1A1	66.56743	66.478495	67.818653	74.159817	74.711462	72.340909	74.147239	79.446512	73.473029	72.65	70.798489	69.780788	-4.662455	0.0371694
SLC1A2	68.253906	58.198473	60.682759	69.102894	73.935275	72.651316	80.745665	70.213115	72.388298	71.773218	70.201626	73.566265	-9.124839	0.0045142
SLC1A5	43.553398	41.357798	30.226277	36.525773	47.612121	47.75	41.302326	39.874252	42.5	45.563536	44.502463	41.597561	-5.921971	0.0393307
SLC22A1	80.990033	76.150685	78.637427	78.1	78.296943	82.615894	80.414035	82.201342	82.372973	79.412935	81.236364	80.484746	-2.409868	0.0411207
SLC22A8	76.278689	71.675676	67.782051	74.131868	78.75	77.362832	77.02439	70.915888	79.548387	81.468571	80.875	75.431373	-5.204984	0.0342901
SLC24A4	75.810175	77.042071	72.789096	76.874826	78.268265	77.481319	80.034622	78.60095	77.720183	78.9947	77.449088	76.877883	-2.549334	0.0126549
SLC25A21	67.112061	72.54958	69.438336	71.167488	73.576832	72.446777	70.384027	71.153846	76.206307	77.520154	71.844721	74.465584	-3.382915	0.0477011
SLC25A35	74.2	60.869565	51.195122	60.166667	69.810811	82.388889	80.203125	71.875	80.604651	80.697674	78.981481	68.757576	-15.05706	0.0054242
SLC25A46	52.38	29.166667	60.546667	15.439024	81.395349	60	75.716418	96.875	52.631579	60.710526	54.039604	67.20339	-29.18839	0.0190391
SLC25A53	53.124567	40.310078	51.5	45.065789	67.866142	59.887324	62.03871	56.399038	55.111111	58.300578	63.946128	50.362745	-11.73886	0.0065894
SLC26A1	89.790419	79.186047	80.391892	81.875	85.89011	90.081081	91.639535	86.295082	91.568421	85.751825	88.804878	84.515723	-5.257492	0.0349944
SLC26A9	73.42126	70.711409	69.711712	69.697183	77.610256	74.04878	76.806604	77.5	74.370629	79.013889	79.068548	79.158088	-6.311708	0.0003615

SLC28A2	76.169492	70.833333	65.714286	75.296296	77.918919	82.5	82.22973	81.025641	92.708333	82.474576	82.790123	85.114286	-11.34185	0.0019341
SLC28A3	79.284337	78.459716	75.150685	74.723214	80.538745	83.564655	78.168539	78.538153	82.634615	80.772861	81.244706	80.404396	-3.828846	0.0103012
SLC29A1	62.655738	57.474359	53.546667	45.733333	70.98	74.837209	74.118644	78.808989	58.415842	65.162791	58.221311	60.125	-12.7312	0.0246015
SLC2A5	80.549708	75	76.65641	76.990244	80.239316	80.083333	81.729814	79.044554	80.96729	82.106007	81.323615	79.315341	-3.302068	0.0066776
SLC2A8	53.939914	50.488095	57.831325	53.75	56.315068	58.711765	58.989418	53.66	60.107914	61.032895	58.447761	66.26484	-5.188874	0.0351147
SLC30A2	72.648649	79.72973	66.339623	64.45283	52.078947	70.706897	55.801887	44.833333	58.945946	55.850746	58.186275	65.878049	13.007448	0.01957
SLC30A6	82.710801	85.356522	83.486239	82.692308	91.638554	89.76378	87.613445	87.578947	92.178771	85.484163	89.481356	85.946309	-5.149198	0.0031797
SLC35A4	39.108434	27.354167	20.4	30	68.5	43.255319	50	40.47619	76.487179	34.568966	48.584416	34.553846	-20.33759	0.0342285
SLC35B1	49.666667	57.575758	70.588235	72.727273	40	38.660714	66.068966	60.351351	41.37931	39.903846	47.368421	51	14.547907	0.0476059
SLC35D1	51.048611	40.084906	48.148148	52.714286	62.775	46.875	53.313253	59.25	67.592593	58.128205	51.017857	56.752525	-8.964066	0.0427542
SLC35D2	80.301435	76.295699	78.301508	84.025	87.044	80.650407	82.799559	86.687747	89.689046	87.348525	79.941423	84.209607	-5.065379	0.0360288
SLC37A3	78.292208	76.219828	81.995902	77.102662	88.47929	81.793333	84.371287	78.333333	87.169811	85.866995	81.359438	78.571142	-4.840429	0.0470933
SLC39A4	55.160305	54.591837	50.315789	55.113636	84.76087	65.71831	69.038835	49.480519	66.653846	77.975309	62.52	84.851852	-16.32955	0.0250356
SLC39A6	46.275	41.447368	56.942857	42.12963	49.022989	51.724138	62.109375	46.108108	58.745763	55.649485	59.586207	62.188525	-8.94311	0.0464852
SLC41A2	81.144578	77.816901	70.748936	71.338028	81.360996	85.489051	84.568513	79.119658	88.358491	79.989091	79.255814	82.666667	-7.338924	0.0121563
SLC44A3	69.455471	68.988571	69.789189	69.597122	75.903846	75.008032	73.815104	67.366142	75.713768	73.501511	73.979747	73.350711	-4.122269	0.0139456
SLC44A5	68.887772	68.779605	70.366577	72.19544	72.425926	71.451429	72.235387	76.274005	71.572398	76.242373	71.998674	72.535565	-3.034621	0.0249985
SLC4A10	76.648107	73.153543	71.04797	73.544944	79.359589	83.540541	78.129176	80.41196	79.003846	80.365196	78.554328	77.413043	-5.998569	0.0006979
SLC6A1	58.338809	56.177358	58.147368	57.929078	56.400778	64.057762	71.069212	58.987179	64.907591	63.793911	64.263261	65.236842	-5.941414	0.0255161
SLC6A11	70.417952	64.877358	67.334184	63.91195	71.097378	70.595833	70.954866	70.766667	74.208661	75.683955	69.476684	71.166667	-5.108478	0.0054018
SLC6A4	70.622291	73.101796	71.653465	73	78.478448	73.386473	77.878689	72.419811	78.366667	84.610039	76.444444	76.523035	-5.169063	0.0240357
SLC6A5	47.042135	40.126214	45.052326	44.015625	49.881857	57.901869	48.806701	53.705128	54.524345	47.252396	47.18705	50.925729	-7.21406	0.0078988
SLC7A1	78.010127	75.217978	76.386161	74.925187	82.954023	81.046939	80.126984	80.803279	84.135379	80.34375	84.052999	80.069007	-5.556682	0.0002584
SLC7A11	74.395161	76.178571	70.945946	68.461538	83.881579	80.555556	72.946667	79.261905	77.083333	79.008065	77.578616	83.087248	-6.680067	0.0105736
SLC7A14	67.528155	61.496835	60.919614	68.186813	66.6525	73.008086	72.34647	65.356955	74.511568	69.569767	68.883478	72.632258	-5.837281	0.0202306
SLC8A1	65.462665	67.05305	67.946108	69.005814	73.036511	70.587654	73.601274	72.20524	70.840426	76.531394	66.725826	74.957447	-4.943812	0.0122639
SLC8A2	47.663704	37.805897	48.677966	36.30819	49.521348	50.910941	48.11252	47.03299	48.824427	52.141136	46.241379	44.038667	-5.738987	0.047658
SLC9B1	85.185567	81.854839	77.884615	90.407407	79.223881	76.840278	82.281818	79.900709	77.193798	81.258065	78.193277	77.047414	4.8407021	0.0408713
SLC9B2	50.61157	44.986667	51.136364	39.525641	56.730337	54.166667	59.106667	73.481928	47.3125	66.516949	60.524064	63.591837	-13.61381	0.0123522
SLC9C1	74.403774	70.008197	73.161905	68.430657	77.822857	73.683544	78.768293	74.449612	70.699301	76.030303	77.340996	77.389286	-4.271891	0.0273349
SLC9C2	83.682353	80.88	82.647059	86.486486	86.128	85.271028	84.80303	89.672897	87.637931	86.791444	85.286364	85.898601	-3.012187	0.0240641
SLCO1B3	73.953642	74.317073	74.739583	72.477064	80.073171	79.12605	81.047619	76.371901	82.339806	77.285714	79.59204	80.192893	-5.631809	0.0003015
SLCO4C1	63.40566	67.164179	47.65625	45.689655	89.295775	77.291667	74.727273	74.527778	75.833333	74.715789	71.681818	66.584507	-19.60331	0.0025788
SLK	53.49505	57.480315	46.226415	51.546392	62.882813	58.946309	60.896694	66.664671	72.5	58.801887	68.2	63.615385	-11.87643	0.0022227
SLURP2	70.014085	76.464286	64.705882	69.32	81.358491	77.611111	78.072464	72.734694	83.673469	84.815385	78.551724	69.653846	-8.182835	0.0249566
SMAD4	57.716346	49.755396	69.642857	55.940594	84.467742	62.57554	71.10582	72.406667	78.493421	69.775701	64.228782	61.089147	-12.25405	0.0336855
SMAD5	48.363636	37.104651	67.134831	37.853659	60.560976	61.368421	63.710145	58.876712	53.844828	56.988372	65.006494	62.920213	-12.79533	0.030031
SMARCA2	69.475316	67.025172	73.331183	64.989418	76.042514	74.286778	78.727804	74.150407	79.940075	73.49734	73.736008	72.477124	-6.651984	0.0044426
SMARCA5	36.985075	26.351351	46.697674	45.192308	57.025641	45.846154	53.833333	49.202703	48.385542	46.018349	53.268456	51.179012	-11.7883	0.0101616
SMARCD3	40.027586	34.741935	46.395604	46.787234	48.93617	53.738095	60.769231	48.822917	43.283784	51.626263	49.992593	48.52381	-8.723518	0.022088
SMC4	34.866029	16.591304	31.318681	43.943396	47.594203	48.818182	38.649351	47.105691	47.098765	35.825806	44.590717	36.714286	-11.61977	0.0329288
SMC5	71.528037	77.731343	84.8125	64.4	80.896226	85.416667	88.943662	77.647059	82.170213	83.643172	80.862974	81.490625	-8.015854	0.0402298
SMG7	81.663507	81.304348	81.675676	82.954545	65.959184	68.404908	83.718447	75.748503	75.532468	78.253807	80.423077	72.144033	6.8764658	0.0491906
SMIM14	77.558352	82.549223	77.04386	76.655319	90.676471	83.554007	84.61215	91.895582	83.539936	85.78836	78.263969	80.549123	-6.408261	0.030443
SMIM27	0	0	0	0	2.4444444	0	2.1111111	3.125	5.3191489	4.7428571	0	1.6393443	-2.422738	0.0360306
SMPDL3A	43.32	36.585366	37.563636	33.802817	48.076923	40.530864	51.909091	40.274725	60.632184	43.722222	57.216783	50.35	-11.27114	0.0193705
SMTNL2	62.548611	53.801688	70	64.343478	76.186047	69.154676	73.378866	71.527778	71.481928	73.770774	70.844262	66.685841	-8.955327	0.0078358
SMURF2	73.077951	62.962264	66.518644	70.525097	74.252366	73.18323	79.906931	73.584615	70.645646	78.10596	78.016949	77.741811	-7.4087	0.0074432
SNAI1	55.569767	57.692308	37.612903	61.235294	58.888889	52.557692	74.865672	77.770833	71.590909	64.878788	75.287356	87	-17.32745	0.0267552
SNAP47	71.84471	78.790323	67.729412	67.668896	77.144231	77.685864	78.550584	72.544393	75.635922	80.826464	74.716814	74.911809	-4.993675	0.0465373
SNAP91	47.509158	53.422414	41.780822	48.882682	65.802395	56.5625	55.095679	56.708571	54.78771	56.523636	60.881188	60.540925	-10.46406	0.0019328
SNCAIP	66.030055	61.747191	64.091346	71.914634	71.260417	65.791469	72.174242	74.057269	73.882609	72.71831	71.225166	72.619647	-5.770335	0.0154181
SND1	81.992467	81.195329	82.813736	77.359916	83.893456	83.737143	84.560068	83.706199	82.907422	83.085106	84.689427	80.905933	-2.595232	0.0285248
SNED1	71.883814	70.066667	74.606015	70.284178	75.942753	74.444591	76.137203	73.311309	74.729275	73.61657	73.342396	76.564637	-3.050923	0.0105592
SNRPD1	64.628571	73.56701	72.177419	71.190476	69.623762	92.401961	80.223022	86.886792	81.131148	75.502825	86.604762	78.381579	-10.95361	0.0189341
SNRPD2	50.275862	31.372549	55.263158	51.356164	78.154762	50.573333	57.461538	58.950617	64.936709	52.705263	56.96	59.964912	-12.89646	0.0459758
SNRPD3	76.056	63.571429	76.388889	63.666667	93.282828	77.610619	78.753731	91.853659	80.239583	84.542553	78.894309	72.94964	-12.34512	0.0183858
SNTG1	72.416345	69.63142	75.087855	72.968796	75.396825	74.088199	76.263191	73.937307	78.154506	76.925254	75.437685	76.415219	-3.301169	0.0102885
SNTG2	76.851822	74.807968	72.59866	75.690659	78.546077	76.881677	77.152812	76.233443	78.374766	76.11309	77.341571	79.322632	-2.508481	0.0139017
SNTN	57.241379	59.222222	56	50	71.769231	66.631579	70.685714	72.545455	69.933333	70.45	72.931818	70.347826	-15.04597	4.05E-06
SNX30	79.094675	77.271084	81.864583	78.477064	76.814583	75.840611	76.954678	76.72549	73.404669	74.671353	75.567639	75.808434	3.4534193	0.0032765
SNX31	72.163636	69.669173	68.46988	66.80226	73.648889	78.874317	80.161716	79.046729	78.215054	85.054054	78.167139	77.217514	-9.521939	0.0003476
SOBP	61.391542	58.170264	58.102041	51.071942	66.835141	64.102616	67.396482	58.780851	69.311787	69.428571	63.955742	63.902247	-8.280232	0.0051795
SORBS1	72.929644	74.741519	74.183471	72.994294	78.871972	79.45927	78.893841	76.924901	79.047836	79.071491	74.212781	78.148148	-4.366548	0.0009498
SORCS2	71.15	69.594528	67.242578	71.78862	72.564325	71.465939	72.820127	72.302611	75.023351	74.516346	71.403797	72.957913	-2.937869	0.0115245
SORCS3	64.240572	63.275056	61.335616	65.412429	65.907372	64.268509	69.053757	65.367857	70.634598	69.926189	67.851366	72.123208	-4.575689	0.0137564
SORT1	65.154567	63.376147	74.22807	73.545455	83.563636	78.656463	72.857143	71.646341	75.723404	75.111702	75.577167	71.043307	-6.446336	0.044997
SOX6	73.916667	73.288321	71.296875	67.708543	75.947883	72.518939	77.333333	72.715481	77.025862	78.143204	74.210708	77.361486	-4.104511	0.0192596
SPAG9	83.262463	78.362667	83.501279	77.659824	91.435805	86.749354	83.704942	88.577406	84.07346	80.314607	84.071429	83.872286	-4.653353	0.0465548
SPAST	80.345018	85.628272	80.128205	74.568966	85.203252	92.609929	88.23913	92.062069	92.096273	86.575163	83.864775	86.600683	-8.238794	0.0052407
SPATA17	76.103734	77.46595	75.857759	80.733333	79.917722	84.229508	81.800766	79.821782	79.506494	81.009639	79.353618	78.692939	-3.001364	0.0294914
SPATA31A	80.958333	70.588235	62.5	77.272727	80.434783	83.333333		86.666667	82.352941	100	100	74.71875	-13.95682	0.0388435
SPATS2L	59.889776	66.702247	58.245283	61.120253	61.91866	71.950147	70.254153	62.909524	71.285366	65.6841	67.864065	72.198767	-6.518708	0.0230958
SPDYC	85.825	58.333333	65.0625	82.5	85.526316	86.206897	90.133333	91.238095	100	71.666667	88.525	82.512195	-14.04585	0.04386
SPEN	70.558783	70.035294	72.90566	69.868613	76.853273	76.995455	74.891496	82.474388	73.044574	73.108062	80.090411	72.63949	-5.420056	0.0167845
SPG11	81.576837	78.418803	85.359813	78.043636	86.666667	87.480702	83.409692	86.319149	82.314935	81.268817	84.335968	84.188192	-3.648243	0.0455176
SPOCD1	77.83105	80.125	73.175926	79.044118	80.059603	83.512397	84.651741	83.763158	83.710938	79.653409	80.59901	84.745192	-5.042907	0.0070307
SPOCK3	73.402017	72.022333	69.92973	68.801223	71.86785	75.884876	75.342556	74.590308	75.662971	75.856688	74.216686	73.602837	-3.589271	0.004735
SPRTN	58.682692	48.148148	58.792453	63.095238	52.816901	83.72093	74.519231	76.5625	79.90411	70.56962	65.466667	67.92437	-14.25591	0.0245637
SPTBN2	82.779715	81.483283	83.291339	83.155882	85.50411	84.821918	85.350329	83.690355	84.921182	88.366319	85.828571	85.297045	-2.794924	0.0035366
SPTSSA	67.772727	62.306818	61.038961	71.782178	65.460432	70.790698	69.865922	76.262626	73.489362	80.534884	74.678392	71.322275	-7.075403	0.0331789
SPX	68.181818	20	100	10	11.111111	15.384615	15.555556	19.588235	6.25	20	25	21.969697	32.688053	0.0475358
SRCIN1	44.440217	44.306977	41.743633	44.684112	48.717452	49.824966	49.209302	45.872428	48.235808	47.900836	44.858987	46.121267	-3.798896	0.0039033
SRGAP3	80.432382	81.594763	77.55202	78.824845	82.847314	82.507619	83.454663	79.990282	83.384118	82.307572	79.220408	81.420448	-2.290551	0.0446738
SRP9	53.45122	55.32	48.225806	62.636364	64.946667	61.604651	59.036145	60	63.095238	64.632184	56.75	56.684685	-5.935349	0.0461925
SRSF12	48.565934	32.236842	61.702703	29.166667	61.881188	54.375	63.278195	57.247423	71.277778	60.747899	54.133663	57.43617	-17.12913	0.0149903
SRSF7	13.119048	5.5555556	8.1081081	13.037736	21.088608	10.792683	17.813725	19.014085	18.571429	30.038961	16.741071	19.260504	-9.210021	0.0121531

SSBP3	80.595745	82.27051	79.860225	79.454545	83.895817	83.25099	84.48369	84.815916	83.97817	83.571619	81.11074	80.010656	-2.594443	0.0223405
SSBP4	40.463215	39.797386	34.853211	32.471861	50.926175	37.975	47.380567	45.068182	57.784211	53.368159	45.031142	46.588028	-11.11876	0.007689
SSH3	65.861272	71.134328	66.978495	68.657658	61	67.830508	67.179487	56.917431	65.009709	64.287582	58.202703	57.641892	5.8992741	0.0324086
ST14	75.799694	71.993902	77.4625	71.747573	80.618391	76.509579	75.251052	76.117517	82.159274	79.749104	75.541056	77.319088	-3.657215	0.0489633
ST18	72.235421	76.075728	75.51711	76.633333	79.572368	75.297114	78.294061	77.803787	80.460912	80.360092	76.338803	78.835592	-3.254943	0.018216
ST6GAL1	73.656136	77.640449	74.314894	70.086168	81.862129	81.362473	77.752381	79.608108	79.787629	75.855114	81.531148	76.807359	-5.396381	0.0062603
ST6GALN/	78.676497	77.680885	78.333333	80.875648	83.54244	81.451937	81.39917	77.418011	84.170213	84.598068	82.119259	82.085404	-3.206472	0.0274316
ST7	80.183731	81.860911	76.322072	79.815029	84.212425	85.864989	83.736842	80.334566	80.49812	83.330289	81.247536	81.60989	-3.058896	0.0379494
ST8SIA5	65.723708	66.721477	64.345048	62.817035	72.924675	67.713499	70.960821	66.192208	72.409357	69.902	69.758993	66.887367	-4.691798	0.0072784
STAB1	77.252567	73.46	75.891429	72.747899	80.98524	78.163333	82.604651	79.384615	81.4	85.981233	77.762178	77.296984	-5.609306	0.0069268
STARD6	87.042553	80.952381	81.481481	78.125	68.067797	54.651163	80	65.277778	68.842105	54.461538	67.089286	63.635294	16.647234	0.0035521
STAT2	91.804878	90.530303	94.14	94.285714	87.27451	87.191919	80.931034	86.482353	81.820225	84.869919	88.511111	87.261194	7.1474407	0.000962
STAU1	78.233546	73.796491	78.417957	74.534722	89.727273	83.815789	84.934156	77.738462	86.648	78.87844	77.295413	81.110357	-6.272807	0.0281355
STBD1	22.73913	39.68254	36.851064	33.75	28.04878	30.769231	24.791209	15.032258	29.15625	14.166667	23.222222	27.678571	9.1475349	0.0492023
STIM1	82.610874	82.806971	82.582547	80.866812	84.596346	89.167002	87.082353	84.412354	87.915447	83.232283	85.32958	83.903926	-3.48811	0.0111329
STIM2	67.509091	53.715152	69.054054	57.909091	79.901235	65.20339	68.665796	68.671937	73.582996	79.330033	65.310905	82.216292	-10.81348	0.0310178
STK16	13.163934	16.666667	20.930233	22.580645	37.121212	28.409091	41.377049	26.804878	28.745098	26.442308	29.288462	18.941176	-11.30579	0.0137481
STK3	82.927649	82.770833	82.439294	82.977337	87.593633	83.241176	84.194946	82.566728	86.949458	85.847258	85.393224	86.325933	-2.485266	0.0219613
STN1	61.030303	81.185714	69.166667	71.879121	57.41	59.137931	62.78534	57.504425	65.965517	61.931677	63.338384	66.460829	8.9986883	0.0219946
STRA6	69.959641	69.807018	71.78125	67.543624	73.731707	73.849462	73.533333	72.863014	75.352518	77.174672	74.478673	77.76699	-5.070913	0.0008644
STRADA	81.714286	90.086207	83.832402	87.214724	84.121827	80.120482	80.755245	77.870057	70.364641	79.075269	77.148148	85.172956	6.3833266	0.0370547
STRBP	73.204167	71.559727	72.914676	61.223214	81.060976	73.783537	79.242553	76.163522	80.933735	75.158242	80.100372	77.696691	-8.292007	0.0058953
STRN	83.729665	83.333333	85.27451	80.672489	91.858108	86.603175	87.273319	87.721739	85.760417	86.124051	81.811175	87.399598	-3.566448	0.044714
STT3A	75.980769	56.896552	62.686567	61.702128	71.373134	75.835443	71.867257	64.74359	89.240506	77.102804	75.296	71.983193	-10.36374	0.044833
STYK1	73.366906	65.384615	66.755814	70.3125	85.271186	79.278261	72.571429	71.99	79.76699	80.466102	72.460674	75.784431	-8.243675	0.0128863
SUGP1	88.208812	90.691729	88.56391	87.633333	86.061625	86.572193	87.229675	83.223642	85.912023	86.14742	88.223382	87.931734	2.3617344	0.0271185
SUGT1	81.643357	82.692308	98.076923	90.949153	81.679012	70.833333	74.275362	74.422414	84.090909	80.086957	83.111111	77.243056	10.122666	0.0174116
SULF1	73.262243	71.529412	71.150142	72.340764	75.545249	72.975676	76.112392	74.430481	74.426434	78.13093	76.101892	76.914021	-3.508994	0.0026754
SULF2	71.846048	71.615487	68.4198	70.513455	74.276879	73.401743	74.791452	73.528358	74.081256	74.638602	72.752901	72.754375	-3.179498	0.000736
SUMO3	58.9801	53.181818	73.009524	64.902098	80.5	70.61194	80.445087	82.833333	75.353846	72.646617	66.014354	87.478528	-14.46708	0.0105332
SUPV3L1	74.956522	69.3625	63.144444	66.097087	72.70073	74.227273	82.204918	74.984252	67.635514	77.863636	74.222222	75.335196	-6.506579	0.0379819
SURF2	57.352941	50.814815	39.393939	61.506024	81.382979	49.287234	75.320988	75.714286	79.159091	65.797872	55.247191	59.831683	-15.45074	0.049797
SUSD1	75.149758	77.514535	71.110169	76.850299	82.585859	81.498645	80.00335	79.129717	79.886199	74.462715	77.973094	79.581897	-4.233994	0.0230264
SUSD5	68.642857	59.006173	65.901408	67.741497	78.561856	74.085427	67.835017	82.586022	66.615385	78.969582	70.404692	74.361111	-8.854403	0.0214004
SV2A	78.308943	55.533333	70.987654	58.75	84.126984	80.267606	88.901786	78.571429	80.555556	90.090909	77.483871	73.946429	-15.84809	0.0060654
SVEP1	62.261036	65.772871	60.346154	67.025547	68.892655	66.22561	71.859451	68.816156	70.503876	70.354582	68.032051	66.72973	-5.075362	0.0053085
SYAP1	79.311111	69.879518	68.695652	71.341463	78.928571	78.205128	85.684685	79.674157	77.948905	75.362832	83.639241	73.692708	-6.835092	0.0246749
SYCE1L	46.993865	28.217822	50.265957	35.576923	73.4375	68.469697	47.483444	49.191176	53.946809	49.654545	51.786667	44.065359	-14.49076	0.0462768
SYDE2	57.934066	47.894737	55.265823	48.734177	76.868687	64.505618	63.030675	60.2	68.253968	53.625954	64.83871	61.854167	-11.69002	0.0116808
SYF2	63.125	60.185185	69.911765	50.961538	86.277778	71.961039	67.905405	67.365854	78.407407	65.64	71.614286	71.533333	-11.54227	0.0243862
SYN3	71.531666	71.364823	70.744538	72.430456	73.839962	74.560784	74.542618	71.192771	73.96935	76.311971	73.808111	74.625758	-2.588545	0.0070193
SYNPR	63.166667	66.067227	67.05618	65.595238	67.613793	65.489247	72.067723	67.411085	71.56487	73.924162	69.693649	71.093144	-4.385881	0.017945
SYS1	29.145161	45.652174	42.424242	68.571429	18.117647	24.227273	36.913793	41.25	38.888889	29.090909	24.190476	32.15625	15.843847	0.044558
SYT11	72.717593	78.323077	75.467213	69.275362	84.064935	84.289017	84.737374	79.618056	80.957447	79.91623	76.12987	76.229249	-6.796961	0.0112078
SYT16	75.156028	70.514874	73.251816	69.682759	80.245968	76.956436	78.406951	74.992381	78.204453	77.330818	77.251934	76.683136	-5.35764	0.0008909
SYT9	65.347751	61.014388	62.170347	64.181495	71.425076	69.575851	63.513043	68.957346	69.353659	74.21097	68.867021	71.13535	-6.451294	0.0034236
TAB2	68.626126	66.530769	72.215278	62.283688	81.045161	75.340136	72.510949	79.064516	80.24359	73.791855	73.586957	81.995349	-9.783349	0.0021642
TAC4	92.770115	96.378378	90.322581	91.666667	85.391304	91.291667	85.74359	81.92	90.470588	87.714286	83.686747	93.28169	5.3469512	0.0360029
TACC2	68.034865	69.681897	68.929176	70.994021	73.213007	71.167161	71.646234	72.361042	71.019976	77.088614	71.265494	72.674383	-3.144499	0.0173181
TADA2A	86.337264	83.224066	89.441667	86.135678	87.326923	81.145522	83.831354	79.544803	81.65	84.054124	83.617188	80.765199	3.5427798	0.0424216
TAF8	79.533333	82.614286	73.300654	76.16	90.557692	91.436464	88.784404	79.139665	83.489051	88.763485	81.698182	86.156364	-8.351095	0.0101492
TAFA1	72.307605	72.191667	72.446541	71.85545	72.015873	74.649123	73.844985	76.179276	75.028617	73.693384	74.783486	75.604471	-2.274586	0.006648
TANC2	77.594803	78.929448	83.233161	76.355903	85.682831	78.791667	82.171452	82.011673	83.534527	81.227319	84.71875	83.334079	-3.655709	0.0339939
TANGO6	88.545904	86.2	87.389716	87.150649	92.293425	90.848485	90.114182	90.441545	90.05178	90.895511	88.683977	88.322962	-2.884916	0.0025863
TAPBPL	59.640351	50.189873	52.670103	56.773333	58.191489	62.733333	58.738739	62.987654	71.352113	64.575	62.92	74.21875	-9.64622	0.013307
TARDBP	47.101266	36.702128	48.965517	47.345133	55.179487	48.823529	64.651163	49.206349	47.479167	58.148148	60.084507	48.680556	-9.003102	0.0391378
TAS2R5	95.454545	66.666667	83.333333	88	96.6	100	97.5	97.727273	96.6	91	90	100	-12.81477	0.0177244
TAX1BP1	67.780269	64.220183	73.842593	65.048544	78.571429	78.608333	75.059072	76.606667	74.545455	65.694581	70.563333	71.978417	-6.230514	0.0426659
TBC1D10A	71.326599	58.11413	57.166667	55.810945	77.393064	76.825581	73.819923	80.071429	72.799107	65.818533	66.248227	70.204082	-12.29291	0.0066009
TBC1D16	76.275566	74.469777	77.575058	76.841615	80.852182	80.382653	79.923226	79.464105	79.303455	81.258537	76.031423	78.087244	-3.122349	0.0092556
TBC1D25	75.21147	62.121212	63.942308	67.6	77.976744	69.682796	74.724359	74.526316	72.154472	74.746575	71.427984	72.704348	-6.274202	0.0231102
TBC1D30	60.891051	46.905797	58.829932	57.102941	61.392857	67.920354	65.533937	74	66.201117	68.472362	56.262976	57.789286	-8.764181	0.0382104
TBC1D7	77.145455	61.22449	75.106667	65	77.02	84.615385	80.489362	85.714286	92.272727	70.952381	71.542857	85.842105	-11.43699	0.0329959
TBKBP1	64.323651	38.373134	52.815385	44.223881	60.98324	57.496774	62.867841	53.089655	57.312977	60.018868	64.004762	64.610329	-10.11404	0.0398804
TBP	58.977011	73.076923	66.666667	54.081633	86.458333	75	69.736842	62.962963	80.555556	73.684211	69.701923	73.189189	-10.71057	0.0428532
TBX21	38.938776	31.696078	42.66055	29.934959	53.827586	63.468468	51.207101	36.738562	61.237113	42.878788	44.698324	44.371981	-13.9959	0.0224178
TBX5	29.996516	25.326599	24	26.501449	28.155313	27.165789	33.210909	33.057851	30.889552	32.071856	30.866087	29.996422	-4.220582	0.0135589
TBXAS1	80.465969	80.493581	79.549391	80.848361	83.568353	81.998767	83.895268	81.198413	83.80339	82.970874	81.472183	81.437016	-2.203708	0.0049296
TCERG1	62.820513	60.493827	58.980392	71.73913	73.648649	69.834711	79.02649	63.505263	81.056818	80.741379	69.55	76.832461	-10.76601	0.016441
TCF12	74.8679	76.544018	72.581132	69.917571	76.546218	77.3049	81.554661	76.980296	78.581429	79.170051	79.624528	81.741641	-5.46031	0.0029827
TCF20	74.695187	66.959916	73.759223	70.24	78.15942	76.994966	78.994076	78.932343	77.196319	76.882045	78.672802	76.951482	-6.43435	0.0005143
TCF3	78.568432	84.244306	77.948347	76	83.590188	83.350388	86.217634	82.807154	83.786184	79.062415	83.554642	81.555556	-3.800249	0.0375069
TCF7	42.069124	49.004545	46.910798	52.127962	57.062992	59.840426	56.21978	49.004566	63.450777	65.867857	52.266289	54.363395	-9.731403	0.0126933
TCF7L2	76.426621	72.614078	71.29684	74.66171	77.067841	77.591937	76.186992	75.971963	76.621005	78.458937	75.543995	74.31952	-2.720462	0.0216229
TCFL5	65.318713	41.957219	48.798206	50.768786	61.245399	65.005682	64.298851	66.45614	61.76	64.525	64.79941	60.36236	-11.84587	0.0066693
TCL1B	70.042254	62.153846	72.318182	75.212121	82.105263	86.65	86.666667	80.030303	79.789474	79.770492	79.366667	83.426829	-12.29411	0.00052
TCP10L	78.83871	74.706897	79.452055	67.853659	89.583333	77.435294	80.319672	79.597403	84.290698	85.216981	78.786164	82.565789	-7.011587	0.0278364
TCTE3	39.096154	13.793103	23.029412	47.368421	39.0625	50	50.611111	31.25	75.714286	60.375	52.439024	51.588235	-20.55825	0.0361451
TCTN2	81.576271	64.91358	76.511962	73.044693	77.677824	88.404444	82.703264	78.70202	90.955446	82.661538	85.932796	82.203343	-9.643458	0.0155162
TEAD1	62.754344	63.62064	64.237288	59.667618	66.59292	64.540049	66.701715	64.505482	67.961494	68.384351	66.65597	66.871075	-3.95666	0.0025064
TEAD4	69.578751	71.813861	74.676871	71.778125	74.216366	77.871318	75.115589	75.068917	78.898281	78.523297	75.882181	71.889388	-3.971265	0.018324
TEKT1	77.711864	65.416667	61.737705	76.705882	73.912088	77	77.642857	77.510204	79.846939	82.726316	77.479167	77.129496	-7.512854	0.0306275
TENM2	73.080928	72.935688	71.20334	77.007845	75.491879	75.789744	74.764662	75.870968	76.805034	79.755692	76.144882	77.618007	-2.973158	0.0267962
TENM3	75.627633	74.340928	75.235385	75.141579	76.212522	78.944659	79.233169	74.534785	78.588061	79.054228	75.078561	78.23168	-2.398327	0.0366899
TENM4	67.798624	67.512268	66.98281	70.017221	71.992832	70.486513	70.334924	67.322994	72.249352	73.463432	71.197842	70.805839	-2.903985	0.018153
TENT5B	58.330579	55.405405	35.83871	76.444444	76.486486	73.708738	69.324138	70.379747	78.835821	71	64.099174	64.570313	-14.54577	0.0405237
TESMIN	76.657534	75.407407	75.825472	79.017143	71.074219	73.564103	75.651026	71.29902	76.07438	73.786207	73.013736	68.636364	3.8395073	0.0193554

TEX26	75.368852	76.191781	63.788732	71.47191	81.694118	76.010753	79.796178	78.431579	72.90411	75.675	77.33813	77.27451	-5.685228	0.0358006
TEX35	72.693548	70	77.0625	78.052632	83.896552	78.32	87.040816	78.542857	78.647059	81.957447	72.705882	80.431034	-5.740536	0.0468922
TFEC	69.063158	67.44186	72.619048	72.65625	75.373134	70.588235	78.759615	79.672727	78.571429	82.058824	75.692308	74.368421	-6.440508	0.0102476
TFF1	73.527027	62.790698	78.291667	68.04878	79.8	88.461538	78	85.294118	80.043478	87.881356	75.623377	78.90411	-11.08645	0.0077081
TGDS	51.882353	21.428571	65.217391	56.060606	71.25	69.791667	65.559524	51.351351	56.696429	72.45283	64.842105	71.298077	-16.75802	0.0489936
TGFBR2	50.541401	53.519231	52.895425	57.773333	62.209424	57.34127	57.63964	54.07732	56.244318	59.845528	54.462366	61.553191	-4.239285	0.0460816
TGFBR3	74.328261	73.916473	75.099768	76.560526	78.38676	78.41651	78.634937	77.416514	75.419929	77.591069	78.840717	76.886957	-2.722917	0.0030938
THBS1	66.449664	63.615385	56.238806	61.555556	69.41791	71.27619	74.760736	70.063158	58.903846	73.108844	71.4	76.513514	-8.715672	0.0180185
THEG	77.99308	72.113772	75.574879	80.040268	84.898618	74.865	83.303571	82.168831	80.572687	81.161049	80.864151	81.570957	-4.745108	0.0304602
THOP1	84.320685	81.646192	88.13835	84.209639	90.3138	91.932271	89.926864	88.664488	87.642697	90.208829	84.317757	87.001401	-4.172297	0.0205657
THSD4	74.984191	72.868641	71.419907	76.155783	76.842324	76.500657	76.005556	75.797414	77.748017	79.897979	74.783813	78.111227	-3.103743	0.016781
THSD7A	64.421779	63.537764	63.605016	67.793201	73.927948	66.434673	70.886463	65.281659	72.524731	72.63289	72.909964	72.732903	-6.076964	0.0069176
THTPA	60.978261	48.076923	30	43.333333	66.875	72.676471	50	62.263158	41.387097	75.139535	68.883721	60.320755	-16.59609	0.0462569
THYN1	34.65625	27.586207	16.666667	24.608696	33.8125	29.333333	33.441176	57.894737	34	41.272727	53.166667	47.347826	-15.40417	0.0263325
TIFA	33.830769	35.714286	33.866667	27.777778	54.486486	42.1875	30.283333	34.4	47.058824	51.973684	42.47619	53.125	-11.7015	0.0316537
TIGD6	57.377049	48.75	27.777778	40	54.054054	69	56.433962	93.617647	90.384615	68.358974	63.136364	82.381818	-28.69472	0.008478
TIMM44	80.879679	78.382166	72.60793	77.765625	87.701107	81.757576	80.184848	80.440909	81.178218	83.129278	81.142857	80.565089	-4.603635	0.0234402
TIMP3	61.015789	59.185841	63.695	59.346847	65.704918	72.015504	66.198433	67.07438	65.775385	74.581818	68.064133	68.975962	-7.737947	0.001507
TIPIN	75.5	67.391304	72.727273	67.592593	76.516129	80.102041	81.410596	71.166667	69.811321	76.100719	83.903448	80.652695	-6.65516	0.0440942
TIPRL	67.78169	75.555556	62.280702	69.285714	62.763158	60.7625	60.964912	60.714286	55.180328	68.363636	67.731092	54.280374	7.3808796	0.0428774
TLCD1	25.978723	20.825	6.0454545	4.5365854	41.107143	21.357143	26.384615	22.610169	30	30.431373	20.474576	29.108696	-13.33777	0.0228112
TLE2	72.448276	73.49345	77.739336	67.945055	80.874652	76.283379	77.905495	73.508671	84.444	79.207289	82.159041	73.942418	-5.634089	0.0411973
TLK1	75.223684	80.875472	76.025237	66.488136	81.719745	84.614815	89.128692	88.652921	85.14557	79.997685	80.761993	76.664966	-8.682666	0.0158612
TLL1	56.066038	55.325342	58.588448	51.183036	63.002976	57.987952	63.825996	63.422819	73.132159	67.244949	63.764605	64.039384	-9.261889	0.0034161
TLL2	63.763085	65.605893	66.399663	60.328647	66.801788	65.272859	67.095325	66.495775	71.002924	71.011665	68.782039	67.854111	-4.015239	0.0169344
TM7SF3	72.513966	77.572816	68.673684	62.673913	77.125	79.472222	73.369942	82.602151	79.957627	72.850932	74.706667	80.173077	-7.173607	0.0280475
TMC1	73.458015	74.720994	75.78125	76.616253	79.537653	79.348993	77.720468	79.018443	79.191682	82.217808	74.827513	79.580321	-3.786232	0.0084246
TMC5	81.990138	82.965251	87.867647	85.227941	81.884393	78.323741	81.513216	79.780556	83.545205	82.419134	82.930769	81.066414	3.0798158	0.0322393
TMCO1	80.318841	76.414815	73.626374	75.742574	81.333333	90.825688	91.266304	83.707865	91.509434	84.611111	86.855615	83.761702	-10.20823	0.001085
TMED3	56.596899	41.658537	72.093023	41.917526	72.413333	69.567901	77.526882	72.518519	70.352273	66.277108	60.636364	54.609756	-14.92127	0.0353464
TMEFF2	61.772429	56.46875	64.703846	62.829384	71.916107	69.726236	68.083012	62.975439	70.564955	68.538251	71.258652	68.39726	-7.488887	0.0023641
TMEM119	88.280899	90	90.825	93.804348	87.2	81.859649	81.546296	85.576923	86.792453	88.375	87.301887	87.365079	4.9754007	0.0092766
TMEM126	17.857143	18.75	30	16.666667	68.181818	46.153846	47.727273	36.111111	45.454545	66.666667	40	39.473684	-27.90267	0.0017131
TMEM131	72.605322	73.420582	71.70354	75.74739	78.227564	75.459313	76.892426	72.39845	79.546624	77.592547	78.229016	75.06524	-3.307189	0.0295427
TMEM132	62.195767	65.011111	65.651376	56.392857	73.055118	73.977941	67.899123	71.350649	82.550847	64.260638	64.739837	69.890688	-8.652827	0.026535
TMEM132	65.127142	65.538462	65.864437	63.718182	70.041717	68.124332	67.006353	67.819837	69.13931	73.357218	66.305501	69.495249	-3.849134	0.0080552
TMEM132	68.356979	68.780659	71.755319	70.961953	71.361049	71.150538	72.156155	69.507472	73.143617	73.799822	72.607381	73.247649	-2.157983	0.0385594
TMEM132	74.509735	73.655189	72.847647	71.32397	75.255014	74.542003	74.921914	74.367762	76.247339	77.133005	75.207607	76.627185	-2.453594	0.0051926
TMEM132	38.966561	32.591781	31.909621	37.968539	38.345361	44.065789	36.831667	38.095571	36.616915	42.483685	41.913257	39.868739	-4.418498	0.0397254
TMEM135	88.35085	88.785455	87.068293	88.058065	92.164786	90.587822	91.9233	92.391924	89.734341	89.62963	90.498258	88.865212	-2.658744	0.0039487
TMEM140	86.13253	80.952381	83.153846	87.837838	73.75	79.244444	74.863636	71.666667	74.363636	70.224138	77.922078	70.670588	10.431	0.0003407
TMEM154	78.604762	71.171171	69.072072	68.756303	76.380117	82.769737	80.669725	76.802721	73.767606	75.295082	82.666667	76.551181	-6.211777	0.0242305
TMEM159	66.44186	55.655172	73.189189	50	72.336207	77.184466	68.243243	65.182692	84.036145	77.378151	64.263158	70.149351	-11.02512	0.0497301
TMEM161	73.584746	81.521739	72.5	63.768116	85.096154	84.653465	84.028986	79.518072	71.646341	84.789474	82.422819	80.834356	-8.780058	0.0258199
TMEM17	9.1836735	15.789474	2.6315789	12.5	13.935484	10.555556	24.82	20	21.568627	42.2	21.340426	23.021277	-12.15399	0.0405078
TMEM170	53.715789	41.803279	58.324324	42.870968	69.981308	61.5	63.341346	50.671141	64.508333	61.910345	54.218274	58.606796	-11.4136	0.0200239
TMEM170	41.711268	49.72043	38.817073	42.988636	63.69863	60.526316	47.446541	47.511905	55.99115	68.043478	50.235632	63.483871	-13.80784	0.0103769
TMEM174	61.65	63.076923	54.285714	65.384615	62.933333	61.733333	64.631579	82.25	74.470588	73.176471	67.823529	74.409091	-9.079177	0.0452206
TMEM178	71.367738	66.768116	66.610108	70.325301	70.886811	73.281784	72.359976	71.443763	73.353448	76.643529	72.632065	75.551669	-4.501315	0.0059474
TMEM179	56.434389	53.373016	52.552448	52.487179	61.100671	66.464865	58.767442	62.090909	58.85119	65.013825	60.866359	58.628571	-7.761221	0.0007727
TMEM182	80.393939	78.724138	80.356164	81.661538	84.904762	84.258824	87.243056	88.411111	86.904762	83.235294	85.257485	80.294872	-4.779826	0.0059831
TMEM198	39.701923	54.232558	52.863014	45.866667	47.350877	63.269231	61.681159	58.526316	63.76087	69.767123	76.557895	56.88	-14.05814	0.0183352
TMEM219	74.018018	73.148148	73.373134	86	70	62.566038	63.177966	66.363636	58.925	63.805825	76.560748	65.894309	10.723135	0.0112986
TMEM225	81.311828	83.317073	81.189189	81.344262	83.264706	87.066667	83.329787	82.268657	86.6625	86.419355	88.346535	82.81746	-3.23137	0.0267782
TMEM230	64.715686	56.661972	52.040816	32.653061	83.076923	65.287671	63.504202	95.081967	45.333333	71.636364	78.666667	71.601942	-20.25575	0.0449532
TMEM233	49.248927	44.309524	40.295082	42.960938	56.652174	59.085938	49.658824	60.029412	48.701087	60.444444	56.348432	53.844358	-11.39197	0.0015057
TMEM235	49.232044	46.969697	63.445378	61.46789	56.65	79.907895	78.610619	67.045455	83.385417	72.092437	64.20979	53.911765	-14.19792	0.0466033
TMEM249	68.825581	78.26087	66.666667	45.333333	80.661017	76.414634	79.447368	91.147059	76.712329	63.611111	79.415385	82.075472	-13.91393	0.045322
TMEM267	72.442748	66.666667	76.829268	58.75	69.753086	77.011494	73.968944	75.369863	83.294118	80.565217	75.741935	78.153285	-8.060072	0.0376958
TMEM33	58.571429	50.444444	51.470588	63	67.054795	69.642857	70.189873	64.295082	66.396825	65.225806	65.233333	69.9375	-11.37539	0.0006628
TMEM41A	44.5	31.58209	40.564103	30.277778	54.032787	45.606061	45.165217	53.030303	65.057692	83.508772	45.304348	46.546154	-18.05042	0.0325095
TMEM51	64.664662	69.926357	65.601852	63.714286	67.365432	65.489157	69.458194	72.560185	71.791011	70.255426	69.205212	69.927954	-3.529782	0.0386436
TMEM61	50.393939	50.57377	61.466667	53.851852	76.272727	66.842105	75.054054	68.235294	68.085714	69.529412	73.894231	58.953271	-15.53679	0.0009148
TMEM63C	68.004566	70.87541	66.698305	67.564626	69.895028	73.630734	73.346734	72.229167	75.906801	75.28145	69.323283	68.088989	-3.927046	0.0325911
TMEM65	43.335106	41.463415	60.365854	31.410256	60.228814	53.947368	50.577465	47.614815	75.873786	58.162338	55.20354	66.578313	-14.37965	0.0420928
TMEM87B	63.399225	56.041096	67.753623	65.510791	71.832298	65.388535	67.568421	63.367876	70.379518	74.551724	71.539568	67.020619	-5.779886	0.0478153
TMEM88	87.583333	100	87	72.875	82.142857	67.75	78.461538	83.064516	78.409091	75.418605	75.148148	71.428571	10.386667	0.0462783
TMPRSS11	80.379562	75.384615	71.969697	70.689655	85.927083	80.19697	82.590604	74.896552	79.397059	82.816514	78.545455	86.125	-6.706022	0.0203985
TMPRSS15	79.797297	83.522727	80.863905	80.275229	77.385475	79.083832	78.28169	82.211111	78.755396	78.940767	77.486486	79.205788	2.1959717	0.0434627
TMPRSS2	60.116505	59.494253	55.295918	59.120482	65.569733	67.357934	63.644444	63.740385	59.17971	72.716981	65.926724	71.505155	-7.698344	0.0085487
TMPRSS6	72.509294	68.695804	70.583333	73.609375	72.691218	75.798005	73.817352	78.718954	72.30625	74.916479	73.995902	76.930902	-3.547431	0.0236292
TMTC1	65.64512	68.251834	71.737349	71.799492	73.554404	71.223195	71.698357	70.355748	72.225746	73.35514	70.482937	74.260109	-2.786006	0.049737
TMTC4	76.40754	68.300578	78.661074	61.24055	83.971989	85.489855	83.68717	73.65311	77.492063	82.747204	79.108626	80.195164	-9.640712	0.0165197
TNFAIP8	64.860927	63.534247	57	58.209877	61.277778	72.354167	75.546584	67.288462	69.455357	73.706294	71.648352	63.428571	-8.436933	0.0150637
TNFRSF10	65.654952	64	67.861538	59.210526	68.753623	72.350467	77.262458	70.082474	71.225532	68.398601	73.535316	72.409091	-7.570441	0.0027428
TNFRSF10	65.696498	57.845714	66.710938	52.722222	69.070513	71.924242	67.832	70.172973	79.098592	64.173729	72.835391	60.861017	-8.752214	0.0359842
TNFRSF9	79.196629	74.457447	78.947368	71.454545	90.086207	83.695652	78.379085	80.906977	77.190909	82.251908	85.010638	78.436047	-5.98068	0.0391161
TNKS1BP1	71.945026	61.857955	62.940217	66.284974	80.553488	70.962185	68.367052	73.839216	73.864629	74.983389	67.914384	71.53168	-6.99496	0.0218269
TNPO2	67.593381	63.116981	58.853061	61.941667	68.883212	65.627389	69.459906	69.245399	70.683486	68.604478	69.09276	68.103704	-5.836269	0.0021623
TNS1	73.030846	72.099804	71.930526	73.660911	74.855263	76.511381	76.574468	72.621795	76.204236	78.91	73.800209	74.697581	-2.841345	0.0205572
TNS3	74.960479	71.923746	70.41453	76.412129	76.837852	75.19384	77.165926	75.372628	79.851852	80.502165	74.798466	77.753078	-3.756755	0.0248403
TOM1L2	81.534606	82.253695	79.663551	76.664198	84.393939	83.111517	84.411561	84.455556	82.935185	84.808605	82.603062	83.062007	-3.693667	0.0029913
TOPAZ1	81.414286	81.946565	82.666667	88.785047	80.158621	78.496815	77.016598	76.451613	81.432432	75.742268	82.937931	81.162791	4.5282574	0.0285843
TOR1A	73.226277	55.659794	60.302632	60.506024	75.412371	68.561905	71.975806	70.138889	70.588235	63.074627	71.433071	72.575163	-8.046327	0.0278288
TOR4A	48.518018	68.014706	54.926667	44.6	62.930348	68.142857	61.777344	68.829114	67.063218	61.561181	61.307692	66.566038	-10.75738	0.0180022
TOX3	57.272171	55.015228	49.028302	47.331395	60.066667	57.857895	59.976982	57.853933	53.240343	64.989865	57.704082	64.444444	-7.355002	0.0155657
TPCN2	78.508728	76.62069	78.047486	75.247573	83.251613	79.462415	79.5664	76.732	86.518817	80.527928	81.251344	80.46495	-3.865814	0.0330513

TPGS2	65.007299	43.902439	60.176991	53.378378	68.902439	75.746269	67.25	74.061728	68.75	59.634146	65.878788	62.331361	-12.20306	0.0145306
TPH2	67.457944	65.577586	68.106796	68.904762	70.291139	65.892857	74.445652	68.025641	74.994048	72.562162	75.604167	73.912727	-4.454277	0.0390729
TPRN	46.012448	58.474576	41.059524	53.305785	50.966887	58.653846	58.558011	59.821429	57.676923	77.042857	66.132184	55.463054	-10.82632	0.0478949
TPST1	77.335106	67.753125	71.588235	81.115789	83.343243	82.064433	79.016364	77.153285	82.973262	80.59246	79.033382	76.495798	-5.635964	0.0402552
TRAF1	58.38	59.623377	66.853659	57.047059	71.310606	69.151163	71.246914	70.380165	75.885246	76.190083	56.347561	69.09596	-9.474939	0.0212885
TRAF2	80.517241	84.111429	80.980392	80.548209	91.689583	89.442344	83.527607	83.378897	86.340956	81.581395	84.798307	84.222543	-4.083386	0.0496856
TRAF3IP1	84.294788	84.528571	90.699248	84.200549	84.153439	76.912718	80.564263	77.878505	80.71916	82.599214	82.514286	80.152648	5.2440102	0.0095664
TRAF7	79.607143	78.444934	86.450893	78.478873	87.478571	90.645367	86.734127	83.278689	83.485437	83.170279	85.769444	85.344262	-4.992811	0.0217862
TRDMT1	85.536765	86.111111	91.341772	86.463768	69.565217	75.808081	72.097701	70.216667	85.008403	80.869281	75.52657	78.316667	11.437281	0.0026719
TREX2	95.515625	100	100	92.391304	79.789474	73.808511	95.033333	84.093023	85.714286	94.740741	81.887097	89.826087	11.365163	0.0169184
TRHDE	68.75265	61.769679	62.081522	54.415385	68.953596	67.32987	69.713622	67.181347	75.018265	67.402685	68.751825	69.61997	-7.491589	0.0098702
TRIM24	72.090909	61.44206	75.625	71.818182	81.716763	70.567568	76.664773	83.941333	76.963087	79.438967	73.606171	74.736475	-6.960354	0.0450634
TRIM28	30.722973	24.691358	27.631579	16.916667	43.582418	43.406593	31.769784	27.765432	37.729412	41.565217	48.369565	33.508772	-13.47151	0.0081875
TRIM36	55.947619	45.81746	45.069565	49.491803	50.8	52.862745	62.095238	49.459459	59.606667	57.59799	64.768889	55.824324	-7.545302	0.0422202
TRIM45	71.416667	58.62069	50	47.916667	80.604651	93.617021	93.65	70.769231	67.857143	72.918919	62.212766	67.692308	-19.17675	0.0223861
TRIM55	65.126761	57.96	75.658824	69.265625	73	74.166667	75.130137	72.969072	82.150442	81.464	79.457516	79.074534	-10.17374	0.0091238
TRIM62	68.736585	70.365079	69.192825	65.991031	75.665339	74.095618	75.907643	72.843373	78.883459	77.27541	73.791781	72.358491	-6.531259	0.0005432
TRIM67	65.894231	53.629518	60.15625	60.962838	66.164557	73.564935	63.151292	63.412698	64.994924	69.532895	68.270609	62.747212	-6.319181	0.0335398
TRIO	73.817454	71.026149	71.095048	72.635575	80.119501	77.4	77.677836	76.480171	79.392413	78.44377	75.049673	76.697017	-5.513991	0.0001774
TRIR	49.327103	24.358974	32.5	35.822785	60	64	48.25	52.745098	51.470588	34.866667	48.487805	44.301887	-15.01304	0.0268717
TRMO	47.136364	50.425532	45.325581	38.596491	55.512821	72.508772	52.388889	50.909091	50.445946	48.229885	54.206522	63.691667	-10.61571	0.0400026
TRMT11	77.32	66.661538	64.912281	59.649123	91.142857	89.0625	85.728	80.909091	70.56383	78.652542	73.877419	76.387324	-13.65471	0.0126589
TRMT1L	61.011111	55.555556	66.25	53.061224	66.203704	63.468085	68.481132	74.074074	73.919355	63.75	63.565217	67	-8.588223	0.0163342
TRMT61B	79.742188	76.923077	93.45098	81.666667	84.939759	79.888889	73.26087	71.95122	63.095238	71.610169	70.1	73.508982	9.401337	0.0463052
TRPM7	80.988848	83.941176	79.009036	85.179577	84.048913	83.950464	85.928702	89.217391	88.133523	89	86.565008	84.582064	-4.148599	0.0171067
TRPS1	67.536735	67.006667	66.291946	67.995984	76.883008	71.663265	75.123853	70.396923	76.582173	71.671053	74.813839	75.099668	-6.82139	0.0003302
TRPV4	70.77027	69.330709	76.59387	71.478964	80.025641	74.818667	78.505155	76.573913	75.804749	73.143791	75.60202	74.585538	-4.088981	0.0251328
TRRAP	85.923706	84.30581	83.496617	86.808537	87.352166	86.881407	89.769452	85.24345	89.92008	85.873817	87.135844	86.851953	-2.244854	0.0475998
TRUB1	69.348315	57.936508	66.666667	64.516129	88.461538	75.955882	69.493056	74.105882	61.22449	89.362832	76.924812	75.946309	-11.81745	0.0399576
TSC2	89.336498	83.858191	86.172269	84.321357	89.321646	89.984252	88.850433	89.428846	90.898897	89.21844	87.363395	87.245963	-3.116905	0.0138615
TSC22D3	58.482618	55.5	58.178571	59.111628	62.589844	66.199234	63.668	65.076613	74.733333	63.424242	66.88345	64.619195	-8.081035	0.0026896
TSHZ1	78.284431	69.883055	73.4	70.573066	80.212598	81.706264	79.144681	77.87689	78.683824	80.69459	75.940055	80.214834	-6.274079	0.0026696
TSNARE1	83.117025	80.622549	81.709053	82.991541	84.055021	84.677437	84.477821	84.530671	84.037706	84.369114	84.516027	81.500188	-1.910456	0.016564
TSPAN11	70.269297	70.299094	72.915789	70.623853	77.123967	76.277922	73.782178	74.591731	77.237374	76.558185	72.025194	75.536752	-4.364655	0.0016589
TSPAN14	58.257944	52.142857	54.722973	55.519582	64.850129	57.330357	60.279461	54.118072	61.862884	61.796748	61.765189	65.531546	-5.780959	0.0204047
TSPAN19	68.75	41.666667	20	20	77.75	80	73.913043	66.666667	60	45	68.421053	50	-27.61468	0.0213572
TSPEAR	72.193719	72.782407	69.484561	70.60229	74.338433	72.680149	75.028151	71.286458	75.272179	74.673625	72.546597	71.979893	-2.209941	0.0390407
TSPYL4	47.723404	23.636364	13.333333	18.576923	38.72093	36.815789	37.5	48.764706	53.466667	42.688889	33.52	33.933333	-14.85878	0.0395262
TSR2	66.960526	46.774194	59.259259	53.3	65.763158	71.333333	80.666667	59.9	89.96	60.375	77.780488	84.214286	-17.17562	0.0232511
TSSC4	46.764706	42.766667	54.385965	55.837838	39.980392	40.235294	39.559524	44.65625	43.030303	43.662338	41.65	52.324324	6.8014907	0.0454797
TTBK1	51.882545	48.94898	51.936937	55.420366	57.409524	52.155039	56.661479	55.271137	64.320186	56.44668	54.497364	55.749216	-4.516621	0.0486101
TTC14	28.846154	10.416667	15.789474	18.181818	26.03125	27.777778	37.037037	22.214286	37.179487	25	39.473684	25.444444	-11.71122	0.0218877
TTC16	78.018779	77.258929	76.822695	83.092199	87.33871	88.179688	82.091787	83.607595	80.007937	80.397727	84.123711	79.764192	-4.390768	0.0461819
TTC28	76.390317	76.343598	76.534302	76.257401	80.690406	79.929648	79.013531	76.346871	82.369968	81.966179	78.250696	82.67583	-3.773987	0.0076794
TTC7B	78.175717	77.837478	74.522213	75.213961	80.178988	79.053779	79.419659	79.688873	77.715487	78.927506	77.746888	78.700626	-2.491634	0.008404
TTI1	86.464789	78.900709	81.133333	79.756757	88.125	82.555556	86.881148	87.582822	85.450549	86.413793	83.485185	85.302632	-4.160689	0.0203661
TTLL11	77.10414	77.133416	75.556092	76.020808	77.476954	78.219582	79.381044	77.640084	80.81233	78.824846	79.209803	79.987051	-2.490348	0.0031693
TTLL12	74.340708	72.129825	69.174672	76.56	85.015326	82.664122	79.447439	79.351438	76.622357	80.257576	82.182825	78.119332	-7.406251	0.0016858
TTLL6	66.741379	63.924528	68.70283	59.868687	69.835878	69.581498	73.781609	71.118721	69.672646	71.664516	70.480861	78.612827	-7.034213	0.0060781
TTPA	62.110092	49.451613	86.206897	62.985294	49.019231	42.525641	47.340206	39.848101	36.036145	72.210526	40.22549	50.5	17.975306	0.0423426
TUBB6	59.190678	62.222222	52.574194	51.280702	69.176471	58.354839	61.810256	62.947712	74.369369	79.671429	61.988593	65.094828	-10.35974	0.0300147
TUBGCP4	74.240741	64.716667	74.16	71.310924	79.014706	76.379845	77.582888	76.030928	77.337662	81.976471	73.522388	78.382353	-6.421322	0.0083311
TUBGCP5	71.316872	58.396694	64.960526	57.242236	80.047059	70.029557	75.608163	65.096618	78.804762	64.452991	70.438127	74.468439	-9.389132	0.029891
TWIST2	59.349146	53.403279	60.912121	62.95122	65.470899	65.103542	65.358108	67.78481	70.27248	67.400891	67.492647	66.567901	-7.777468	0.000766
TWSG1	73.291304	65.441176	65.979381	66.447368	67.962733	77.929577	79.697872	73.433333	79.090909	73.70892	66.259649	82.019763	-7.223037	0.0457631
TXNDC16	84.365019	82.916667	77.351724	79.562963	83.961957	87.797101	87.347639	89.939024	87.398876	85.783251	86.799308	83.269231	-5.487955	0.0050607
TXNDC9	65.392523	64.493506	70.1375	61.22449	75.323232	62.917526	76.898148	76.966292	71.2625	75.336207	75.746753	69.984733	-7.742419	0.0187603
TXNL1	78.284722	68.965517	60.989011	65.384615	89.516129	75.774648	83.416667	84.88764	85.263158	83.216783	74.288136	67.972222	-12.13596	0.0204474
TXNL4A	65.494118	69.300885	56.720779	51.528662	83.451613	81.540541	66.826255	58.973684	76.916667	83.333333	76.268519	64.425703	-13.20593	0.0378252
TXNRD3	52.280488	44.988889	54.656863	43.620253	66.156863	62.921348	66.390728	68.516129	58.097345	60.525	47.039604	58.59893	-12.14412	0.0115162
TYR	71.272727	59.060976	62.307692	68.75	73.058252	77.39726	74.425	65.682353	72.604396	71.181034	73.738889	70.079096	-6.922936	0.0233051
U2AF1L4	25.793103	12.638889	36.8	40.178571	47.022222	27.62	47	54.692308	43.787234	45.509091	43.938462	32.459459	-13.90096	0.0454519
UAP1	64.512658	34.831461	55.940594	54.411765	75.87234	49.565217	65.047904	84.289855	84.042553	79.372263	68.575916	57.518692	-18.11147	0.0411216
UBA2	73.529412	65.475177	59.039773	56.141844	72.159574	70	73.751938	67.755682	69.717514	79.5	74.080247	69.498592	-8.511392	0.0244241
UBAC1	75.677019	74.331683	70.783582	75.108225	84.006494	83.775449	85.668203	83.550186	79.912429	81.938619	77.05157	78.862661	-7.870574	0.0008927
UBAC2	67.967598	65.92827	68.474104	66.254582	77.691252	74.867395	69.866528	65.102389	74.081566	74.386503	69.82241	72.325885	-5.111852	0.0316079
UBE2H	82.216258	81.005814	82.061972	78.308219	82.722222	85.344828	86.518405	82.728814	85.58	81.402214	84.898752	80.967148	-2.872232	0.0410579
UBE2J1	58.333333	68.627451	81.666667	85.714286	52.366667	45.294118	60.333333	42.391892	37.383178	53.353383	69.033613	60.705036	20.977782	0.0120863
UBE2K	85.030534	83.748603	82.262195	83.537356	87.124424	84.541872	87.92869	86.5	85.352227	83.925347	84.856688	85.106082	-2.022244	0.0303278
UBE2L6	77.208955	81.481481	77.850746	71.323529	85.344828	83.071429	77.048611	87.234568	83.631068	90.663551	84.042857	78.267717	-6.6969	0.031328
UBE2Q1	42.711712	51.081967	40.27381	60.290909	51.414634	68.181818	54.259259	57.710145	57.673077	68.363636	60.634146	54.216495	-10.46705	0.0404483
UBE2W	78.874636	75.698324	80.631579	74.361905	86.182759	81.935897	85.883721	87.027397	85.989011	88.802721	83.720812	79.829218	-7.529831	0.0017221
UBLCP1	44.936709	51.25	37.837838	42.222222	49.923077	61.014706	55.325	46.153846	55.870588	46.871429	63.057143	49.978261	-9.462564	0.0301112
UBR3	80.487842	81.202778	79.669421	80.784916	88.216036	84.467991	83.062937	83.281188	82.277904	84.477064	80.690176	80.892593	-2.884497	0.0438952
UCP1	30.09375	28.947368	25	16.666667	30.769231	36.666667	37.363636	41.176471	25.275862	32.77027	46.709091	36	-10.66446	0.0212298
UCP3	78.596774	72.681818	74.854167	73.511628	82.910714	87.245614	83.079365	79.622642	77.618182	78	81.965116	83.64557	-6.849804	0.0043504
UGT2B15	50		60	60	100	100		100	66.666667	100	75	57.142857	-28.87755	0.0348756
UGT2B28	100	100	100	100	92.857143	62.888889	70.333333	81.818182	100	60	78.846154	86	20.907037	0.0158226
UHRF1BP1	76.327628	72.83	63.771429	70.192469	81.713115	77.261818	80.210989	81.635338	80.269388	82.404692	77.464427	78.512931	-9.153706	0.0012059
ULK2	68.780822	76.5	66.824104	72.549488	79.454545	80.49505	82.19084	85.476868	77.267442	82.940367	78.616529	79.046233	-9.522381	0.0007353
UNC13A	66.540761	64.045187	65.633333	65.862434	73.496318	69.293578	68.402834	69.648819	74.916808	69.783632	69.845341	71.021905	-5.280726	0.0013942
UNC13C	75.460762	73.687366	74.595865	76.877506	77.471449	75.600746	77.029851	76.018663	79.399154	79.245018	75.374359	79.334701	-2.278868	0.0438357
UNC13D	75.420245	60.43662	67.549296	61.818713	67.637255	72.300578	73.916335	69.839196	81.282158	79.972678	72.996198	79.866279	-8.420116	0.0353621
UPK3BL2	95.454545	100	100	100	90	95.652174	85.473684	97.5	82.866667	69.230769	88.571429	95.821429	10.724117	0.0495299
URB1	89.148837	86.874598	84.443272	81.213622	88.589686	94.002597	89.222403	86.933333	90.825521	91.062382	86.507692	87.285714	-3.883584	0.0490331
USP17L10	85.714286	58.333333				100	100	100		100		83.333333	-24.64286	0.043024
USP24	73.480769	64.485714	69.653226	71.238095	85.674074	77.483444	77.066372	75.086142	78.029155	73.906926	77.215722	73.541748	-7.535997	0.0090145

USP45	81.153153	85.648649	91.666667	78.289474	81.736527	77.459016	76.075472	77.122137	83.378378	75.824	72.292135	80.184549	6.1804587	0.043919
USP48	78.6672	74.38676	85.655844	70.877841	88.195946	79.54386	82.73021	85.970944	81.253219	82.226691	85.78882	84.270736	-6.350642	0.0337071
USP6	70.05499	63.260417	68.050228	59.770609	75.304498	75.816092	70.59743	72.103448	75.059016	68.720588	72.503145	67.199143	-6.878859	0.0122338
USP8	87.035971	82.920792	87.256198	90.325472	91.306338	86.622776	90.21883	90.534137	89.470803	92.451456	88.618844	91.5	-3.20579	0.0438089
USP9Y	40	88.049383	86.111111	33.333333	93.023256	97.222222	92.494024	80	95.49635	90.900474	66.666667	93.295374	-26.76384	0.0370483
USPL1	70.538961	65.697674	63.8	62.5	75.637363	71.125	69.668831	72.269663	66.913043	73.957055	73.373333	74.830065	-6.587635	0.0059939
UTP23	28.777778	11.538462	15.625	17.391304	54.166667	28.571429	51.785714	54.545455	34.904762	36.266667	41.666667	38.808511	-24.25635	0.0014827
VAPA	45.016598	44.606061	34.430556	55.122951	46.270588	56.952381	52.514019	60.901515	60.184	61.699187	58.968037	47.425781	-10.8204	0.0284567
VASN	76.798387	69.196429	67.161677	78.625954	90.8625	93.826772	92.425234	89.013699	83.65873	91.458065	85.714976	89.607477	-16.62532	7.19E-05
VASP	62.486486	62.734266	61.487342	54.552326	63.561702	64.845714	65.906897	68.292035	67.908629	63.804167	63.881459	66.954064	-5.329228	0.0083365
VAV2	79.943647	78.743971	79.489944	79.067813	82.569811	80.634395	83.153824	81.479149	82.853541	80.509079	79.570607	80.408538	-2.086024	0.0138585
VAV3	74.761651	71.899281	73.765333	70.526462	79.978088	80.695	80.287286	78.437923	77.487223	75.094395	73.062433	77.930649	-5.133443	0.006617
VCAN	48.782178	47.928994	44.723164	40.812834	63.502591	56.52459	60.216028	51.686275	50.616915	53.822785	54.337278	49.796407	-9.501066	0.0060386
VDAC1	68.821549	65.159574	76.553957	59.050725	55.484018	57.304878	67.7173	51.912568	54.97076	64.267281	57.675182	58.737179	8.8878053	0.033227
VKORC1L	76.403806	78.219124	73.449612	78.291513	89.303448	86.620968	80.447191	85.046218	90.910156	84.488312	81.949814	76.602	-7.83	0.0111701
VMP1	76.288956	71.993127	77.521212	74.506964	80.760417	76.818991	79.937605	82.768018	79.517241	82.158559	83.3687	78.076101	-5.348139	0.0037611
VPS13C	80.451724	81.047619	81.022099	76.880952	89.817734	80.538922	85.626344	82.994924	89.984496	85.99322	84.477204	82.555831	-5.397986	0.0152851
VPS37C	76.990385	76.736842	74.728261	72.944751	77.796875	81.781818	80.431095	75.892216	82.859223	77.853448	76.464407	80.658754	-3.86717	0.0242166
VSIG1	83.782609	94.047619	91.304348	93.086957	80.166667	66.666667	79.326923	71.666667	76.666667	82.458333	66.569767	87.897959	14.127927	0.0072022
VSIG8	44.969231	32.608696	22.048193	31.981982	55.752381	45.507042	65.654545	43.788889	41.070175	31.487805	47.978723	41.537037	-13.69505	0.0499404
VSTM4	70.140787	64.930233	64.757785	65.372822	71.189873	67.140984	70.825221	71.201987	68.98645	75.329843	68.417879	72.952471	-4.455182	0.0188993
VSTM5	63.476852	52.876543	53.789474	60.905512	76.368421	71.941176	66.18593	69.555556	81.485149	69.224599	74.538462	70.332	-14.69182	0.0006874
VTI1A	86.330161	84.824786	86.778068	86.622727	88.562245	87.363095	88.854816	87.568345	86.553863	87.707638	88.414824	86.921121	-1.604308	0.0107906
WASHC1	50.891892	94.285714	74	84.615385	47.619048	28.378378	50.891892	50	25	65.717391	52.076923	51.034091	29.608532	0.0095393
WASHC3	69.406593	55.128205	70.454545	73.809524	90.769231	63.157895	83.333333	89.74359	81.283019	75.49	79.8125	80.806723	-13.34982	0.0288592
WDPCP	79.607096	85.385638	80.272265	81.129288	86.615071	85.433649	85.324879	81.845666	88.672447	87.809589	84.028769	83.222336	-3.770479	0.0280361
WDR12	84.739394	84.615385	82.484848	88.88172	95.175439	90.323232	92.622093	95.966292	91.666667	91.40625	89.147959	88.145631	-6.626359	0.0025705
WDR13	66.131868	44.339623	58.928571	70.920792	71.033898	67.583333	74.91	83.949045	75.883495	66.045045	70.2	68.613636	-12.19709	0.0319582
WDR19	76.980392	74.42439	75.242553	78.030769	82.12406	86.521531	84.984026	76.785408	80.409283	79.797721	82.912752	80.378378	-5.569619	0.0076991
WDR27	84.282086	85.02442	83.948119	83.247817	86.604297	86.219373	84.743779	88.640712	88.653922	86.229393	86.030094	87.335587	-2.681534	0.004346
WDR31	60.992593	62.333333	57.051282	53.571429	70.277778	60.583333	68.496454	67.87234	62.595506	66.882353	63.301471	67.191617	-7.412947	0.0066046
WDR35	78.617647	79.873874	61.364486	55.616279	77.333333	76.426752	85.259574	77.5	90.240506	82.308057	75.867857	81.194656	-11.89827	0.0339104
WDYHV1	73.259494	67.723404	67.132075	76	78.853448	78.272727	83.059259	71.930435	79.809524	82.698413	82.346591	74.957143	-7.962199	0.0094274
WFDC12	65	80	0	66	100	86.666667	82.333333	50	100	100	90	79.166667	-33.27083	0.047872
WHRN	72.467089	66.086168	72.578571	71.744131	76.898947	72.145669	76.50765	75.557252	75.232727	78.696682	72.81358	71.287656	-4.173531	0.032572
WIPF3	58.366733	65.909699	60.801262	63.503731	71.240803	75.113475	71.945148	64.28481	70.243446	65.620609	68.491071	68.423228	-7.274967	0.0060713
WNK1	68.011076	63.232628	62.21066	67.697329	76.028103	64.275058	69.531153	77.272189	73.735802	71.240803	68.998656	71.825065	-6.32543	0.0229448
WNK2	75.325963	76.962773	76.451002	74.99877	78.249077	77.153052	78.720399	77.712603	78.710945	80.229131	76.65241	76.901999	-2.106575	0.0115405
WNT3	60.660448	49.944615	59.159159	54.358804	65.02439	60.473214	61.001901	58.982097	59.013021	59.329356	61.319392	59.567468	-4.558098	0.0396858
WNT9B	59.885375	46.503145	46.916667	53.339394	62.208092	62.640187	60.836653	55.672222	51.611702	62.112971	56.873518	60.358621	-7.378101	0.0302734
WSB1	65.945736	71.511628	51.222222	67.55	56.956044	61.014085	53.717557	51.095745	53.277778	52.614815	62.68	55.07483	8.25354	0.0473098
WSCD2	60.207012	53.879859	56.046809	57.430595	61.866667	63.809659	62.437398	61.956012	63.025	66.660232	61.500907	67.922297	-6.756203	0.0011985
WWC2	73.795314	70.613537	68.134043	69.409877	74.839925	74.295745	74.416568	74.857671	76.219178	76.835079	72.591182	76.227902	-4.547214	0.0017207
WWC3	77.52906	72.16129	74.445355	74.830189	82.412281	80.201784	84.868966	81.192012	84.017094	83.45	78.975086	82.027228	-7.401583	0.0001511
XAGE3	77.733333	100	100	90.909091	62.4375	82.352941	75	75	89.285714	88.235294	63.742857	68.181818	16.63109	0.0266884
XIRP2	72.268939	69.811111	72.589286	72.358025	72.598465	75.509146	73.089226	74.692112	76.82263	81.273946	74.978884	81.693997	-4.575461	0.0305811
XKR4	67.668593	65.965475	67.792782	67.316589	73.027426	66.314255	69.667734	68.653728	68.697087	72.470888	69.51182	70.922677	-2.722342	0.04023
XRCC5	77.812139	72.385542	70.873016	71.936047	77.201794	80.023364	79.538674	81.769231	71.890196	78.888136	79.296196	78.361257	-5.11942	0.0187569
XRN2	69.036585	69.008264	70.520548	66.40566	80.049261	71.310345	70.144531	83.557047	91.503268	71.789474	79.55627	74.935361	-9.11293	0.0369988
YEATS2	85.580563	78.414352	82.171233	77.259101	84.366957	84.077075	85.025579	91.261036	87.011494	82.948611	82.590129	85.391494	-4.477735	0.0405651
YIPF5	47.321429	33.333333	39.285714	23.076923	65.555556	34.615385	53.921569	57.142857	41.860465	65.909091	49.137931	71.052632	-19.14509	0.0258112
YPEL5	15.77451	22.093023	13.131313	20.560748	19.021739	31.655172	27.169014	32.234375	18.5375	27.394161	26.636364	32.06383	-8.949121	0.0171022
YY1AP1	68.479167	60.080357	59.717949	60.22807	66.880952	69.292398	69.275281	70.202703	74.261438	62.887387	74.731518	69.666667	-7.523407	0.0108654
ZASP	91.935484	61.4375	78.085714	65	94.314286	79.166667	87.722222	85.526316	96.774194	92.433333	84	94.529412	-15.19363	0.0222144
ZBBX	68.447257	69.685897	77.210884	69.828571	76.381215	74.375	72.845283	76.634286	77.885417	76.452736	75.020761	76.990354	-4.529979	0.0166697
ZBTB43	70.834225	69.78022	72.669565	57.918033	85.267857	76.377953	69.883249	82.520325	78.409639	73.945946	77.178571	73.304167	-9.310453	0.0210507
ZC3H3	83.842167	81.186957	82.61529	83.141658	88.732496	85.125957	85.754557	83.365672	83.860194	85.309827	83.574536	83.68654	-2.229705	0.0478453
ZC3HAV1	52.553498	54.974026	53.12	51.39916	61.426866	66.223485	59.105556	58.840625	61.587349	62.633508	61.579545	61.232143	-8.566964	5.12E-05
ZCCHC14	79.395052	67.653061	78.9159	74.766617	80.527991	83.176545	81.68161	82.360571	78.676606	80.473073	79.744417	78.169826	-5.418672	0.0234843
ZDHHC12	60.775862	64.473684	28.125	60.606061	85.714286	65.428571	74.461538	88.888889	83.333333	66.25	61.885714	56.349206	-19.29379	0.0450673
ZDHHC20	77.542857	67.316832	73.6639	68.971831	78.180672	72.819095	78.295567	79.535865	71.555172	81.061818	79.293478	77.583535	-5.416795	0.0411583
ZDHHC3	79.068862	75.253086	70.825893	69.409283	78.638376	73.741697	77.042553	78.988889	76.645161	80.536667	81.678191	77.630491	-4.473472	0.0436395
ZEB1	58.992991	62.36036	64.095785	64.362007	71.671827	65.561983	78.453947	67.22619	66.92381	64.57767	67.316794	72.558952	-6.833611	0.0216195
ZEB2	60.995506	58.153584	49.258065	54.65587	55.596875	62.68018	62.50503	63.954023	60.66787	60.644495	64.943925	61.713718	-5.822509	0.0262445
ZFAND4	71.939516	57.85124	63.182609	56.597222	72.111111	55.921687	70.747664	74.141304	76.507246	77.625668	77.243446	75.099291	-10.03203	0.0427143
ZFAT	81.157974	83.817073	83.049202	86.538028	86.978678	88.525571	87.967693	87.707955	86.572785	88.575229	84.725166	84.012203	-3.242591	0.0182899
ZFHX3	76.697685	77.046805	74.00088	75.551325	79.401623	81.018477	79.6936	79.348083	80.959432	79.652667	75.41934	78.798561	-3.462299	0.0062987
ZFHX4	68.067332	61.758893	56.204082	64.088	73.25	68.420833	63.193277	62.843537	75.328467	72.157277	69.592233	72.599598	-7.143576	0.0332204
ZFP1	57.09596	52.604167	54.58209	71.604938	70.723881	82.516484	74.03876	68.814433	85.281553	77.772414	60.223958	67.892216	-14.43617	0.018163
ZFP37	37.977778	47.222222	37.037037	33.333333	71.428571	44.916667	54.458333	43.909091	48.380952	51.255319	48.566667	57.412698	-13.64844	0.0204236
ZFP41	78.572178	71.47619	77.045685	83.794872	80.863158	84.740196	82.140056	83.354037	87.226852	81.83959	85.899676	81.952381	-5.779762	0.0182443
ZFPM2	67.465686	62.221719	64.223932	65.708235	73.462963	69.323529	70.56724	65.337793	74.154545	73.01816	69.133913	70.118205	-5.73465	0.0061183
ZFR2	76.620841	71	71.400815	73.102524	76.936667	76.330306	77.534884	78.515873	76.172678	78.449348	76.046805	74.780968	-3.814896	0.0054438
ZFYVE9	80.625592	77.277657	79.214418	78.139959	85.915563	77.50722	81.019016	83.730051	85.202247	83.380531	83.075195	80.398058	-3.714078	0.0320448
ZKSCAN1	74.60515	72.449153	70.330275	69.462185	84.384181	77.339623	84.353712	70.945578	81.671053	81.574257	77.312741	81.870079	-8.219712	0.0071761
ZKSCAN3	68.820513	59.491525	69.166667	57.954545	69.891892	68.517647	73.697248	73.029851	72.60274	80.402174	69.868217	73.992424	-8.891961	0.0090346
ZKSCAN8	65.425926	35	36.842105	62.068966	67.947368	51.111111	59.722222	96	71.428571	77.192982	83.018868	57.823529	-20.69633	0.0497047
ZMAT2	33.75	35.714286	28	12.2	42.909091	37.5	43.421053	44.444444	26.666667	38.888889	48.369565	42.021739	-13.11161	0.0230645
ZMYM1	81.170833	72.138889	78.188235	77.92053	85.062893	85.115942	86.445415	87.868263	79.75	82.844311	83.034722	79.940945	-6.40319	0.008473
ZNF112	60.68254	66.326531	57.894737	60.294118	76.136364	73.866667	71.220588	72.54902	71.875	78.608696	70.328571	67.816901	-11.50074	0.0002797
ZNF121	65.242424	72.666667	61.481481	55.957895	72.462366	69.480519	64.278689	70.72619	70.920455	75.526316	71.685185	72.787671	-7.146307	0.0325416
ZNF14	56.375	67.164179	58.973913	63.230769	71.717949	63.235294	73.017094	61.443478	81.3	70.086207	69.110294	69.373494	-8.474511	0.0361851
ZNF146	61.029268	69.067797	64.59854	54.983607	76.415385	67.384	71.651515	64.166667	68.456376	67.514451	74.36036	69.486056	-7.509548	0.0255062
ZNF211	32.859155	64.5625	80	66.666667	40.09375	28.293103	36.338028	30.769231	45.588235	64.705882	41.508475	36.972603	20.488417	0.0429522
ZNF222	43.117647	34.285714	46.428571	26.470588	51.774194	77.761905	46.282051	85.714286	84.615385	64.310345	54.268293	73.105263	-29.65333	0.00549
ZNF232	53.77027	39.572254	44.677852	36.946524	51.143646	60.547619	54.268939	57.050691	46.443902	50.978903	53.013605	48.055944	-8.946181	0.0262026
ZNF263	50.07767	33.050847	39.344262	24.21875	58.864407	51.685393	59.625	55.768293	51.121212	59.05814	55.743363	52.210084	-18.8366	0.0009313

ZNF280A	67.361111	50	75	58.333333	96.428571	63.071429	75.541667	75.925926	76.65	86.148148	75.25	82.864865	-16.31146	0.024727
ZNF282	72.672527	74.288136	73	62.311741	79.561644	71.065574	82.07565	77.172638	80.69341	77.18806	76.050885	76.063781	-6.915854	0.0218842
ZNF302	29.453333	18.44	26.470588	15.883721	41.051724	24.797101	33.268293	52.128205	21.383333	37.409091	38.863636	29.913043	-12.28989	0.0479128
ZNF365	72.87234	67.272727	63.605634	49.666667	81.09589	72.95082	76.872727	70.156627	67.275	75.252525	75.150943	75.584746	-10.93807	0.0200116
ZNF395	54.403346	56.357466	60.284314	51.701439	74.736626	75.565836	64.445876	70.407534	70.245161	59.52439	62.846847	61.422633	-11.71272	0.0060298
ZNF443	25.816901	22.222222	14.0625	38.095238	40.342105	33.307692	33.780822	52.777778	44.111111	41.909091	28.301887	29.702703	-12.97993	0.0371882
ZNF473	76.875648	78.017241	76.368932	75.141509	85.581197	83.832061	82.259615	76.993103	86.637255	83.2	80.985577	79.605809	-5.785995	0.0060091
ZNF474	72.096154	83.333333	85	88.095238	74	63.461538	70.040816	55.5	60.230769	75.803922	63.55102	77.207547	14.65673	0.010781
ZNF487	70.555777	71.366492	70.166134	60.028571	79.37931	78.92607	73.006682	75.524823	76.820598	75.550388	76.179134	70.615527	-7.721073	0.0078137
ZNF516	70.278368	68.620653	74.138976	68.995842	72.179525	72.501764	76.067313	75.157528	74.293233	77.895931	72.712246	71.641011	-3.547609	0.0302271
ZNF524	75.122807	84.90566	62.244898	87.209302	83.824561	58.823529	51.306931	57.746479	60.383562	45.277228	70.188889	61.673077	16.217635	0.045835
ZNF557	59.417391	47.260274	60.656716	57.638889	84.444444	79.945946	70.720721	87.121212	79.746835	79.02439	80.371901	80.504348	-23.99166	1.96E-05
ZNF569	64.269461	63.678261	64.46281	60.074074	76.375	93.055556	67.506383	73.221154	76.538462	69.210227	72.703704	70.976	-11.82716	0.0170686
ZNF578	69.047297	69.754717	69.582222	70.44186	78.083612	76.115625	73.523707	74.065217	74.61794	77.062189	76.274336	81.837887	-6.74104	0.0006388
ZNF586	50.514563	40.178571	57.87037	46.074074	68.153846	84.031915	66.090164	63.214286	57.669903	77.732394	63.357143	61.790698	-19.09565	0.0041308
ZNF610	73.615079	64.177305	67.216418	66.319444	77.666667	64.064171	76.122222	83.328571	80.518072	73.081784	77.04	76.057915	-8.152864	0.030229
ZNF614	62.278689	57.142857	55.102041	63.095238	91.489362	64.583333	67.337079	89.0625	76.363636	65.391304	66.294872	78.590361	-15.48435	0.0216152
ZNF618	76.268645	76.328455	77.207792	75.549435	81.510559	78.675607	79.097408	76.628459	80.696655	78.800595	77.6875	78.489687	-2.609727	0.0103353
ZNF619	63.386667	73.096774	69.512195	56.756757	50.04878	55.8	59.202703	62.568627	58.77193	58.554054	61.723684	58.675325	7.5199603	0.0367767
ZNF639	39.087591	22.943548	34.693878	27.487179	35.422764	41.057971	36.084337	53.372093	51.411765	47.535088	45.130719	43.7625	-13.16911	0.0098224
ZNF641	54.257143	68.181818	92.947368	66.666667	38.903846	47.674419	45.35443	55.268293	35.849057	41.666667	53.589744	61.065574	23.091745	0.0082158
ZNF644	72.308057	71.396825	73.238095	61.248276	79.573171	75.540541	83.018265	77.318471	80.512987	80.94	70.990291	78.955823	-8.80838	0.008216
ZNF654	72.306667	63.72549	60.185185	59.685039	67.609756	77.295238	74.152941	78.525424	66.846154	70.851648	76.089623	70.687225	-8.781656	0.0148794
ZNF658	25.806452	20.588235	44	57.692308	70.967742	91.666667	56.097561	66.666667	82.565217	69.565217	63.610169	57.936508	-32.86272	0.0029486
ZNF665	77.172414	61.764706	64.747475	60.789474	77.25	71.614583	70.946341	77.533333	85.826772	75.108844	65.806122	78.630901	-9.221095	0.0434858
ZNF678	85.625714	85.855422	79.458564	77.16568	94.349057	87.179592	87.114441	83.333333	85.364055	91.95082	91.286472	88.04607	-6.551635	0.0207064
ZNF679	76.783582	78.779221	69.707692	71.717949	80.933333	82.367816	82.265306	77.197917	77.326316	73.804878	79.339394	83.12426	-5.297792	0.0358908
ZNF680	78.328205	83.333333	83.678261	76.090909	91.856	96.055046	86.502959	86.833333	85.738562	82.390244	78.49162	91.368715	-7.046883	0.0479997
ZNF681	59.112903	70.833333	94.827586	80.232558	68.181818	74.468085	60.141026	66	53.846154	63.42	53.156627	56.189189	14.326233	0.0478781
ZNF705E	51.666667	70	50	75	100	85.714286	71.181818	75	66.666667	80	89.0625	80.75	-19.38024	0.018545
ZNF705G	78.318182	74.242424	64.722222	69.736842	87.368421	78.756098	81.227273	71	80.833333	80.515152	75.575758	78.72619	-7.49536	0.036936
ZNF706	3.4117647	2.5423729	4.3478261	5.203125	12.931034	13.414634	7.546875	7.8703704	17.050847	5.637931	4.5081967	11.764706	-6.214302	0.0206774
ZNF707	82.722772	80.969697	87.113402	86.065574	81.299435	78.042017	76.380952	71.942446	76.548673	75.705479	77.311321	83.630841	6.6102158	0.009338
ZNF711	33.928571	11.111111	12.5	6.4722222	73.376623	42.741935	25.694444	33.333333	31.034483	54.545455	52.855769	22.321429	-25.98496	0.0241643
ZNF724	72.625641	88.287234	82.58427	78.683544	65.731183	67.739837	65.778481	54.626374	76.752294	68.550388	82.894737	72.897727	11.173795	0.043925
ZNF74	76.191257	74.577778	73.209524	54.773913	90.523438	89.678571	77.578313	78.821429	75.522523	79.380952	80.471014	74.682927	-11.14428	0.0348236
ZNF740	59.9875	65.530303	42.93578	41.266667	68.931624	76.170455	70.758865	64.958333	69.890244	77.829268	59.58	61.45641	-16.26684	0.0114022
ZNF799	29.343284	30	24.117647	20.454545	39.655172	39.732143	38.014286	30.128205	58.823529	47.355263	33.633333	31.366667	-13.85971	0.0211237
ZNF806	81.741935	65.384615	73.809524	72.352941	49.3	55.5	70.04	25.928571	64.1	58.88	61.607143	64.775	17.055915	0.0440753
ZNF823	58.277778	50	58.328947	61.764706	74.347826	76.785714	70.623377	66.436782	65.145455	55.067669	70.588517	63.985366	-10.77973	0.0193355
ZNF83	73.392857	72.836364	72.033333	65.859589	82.964392	74.817518	75.295302	81.390879	81.521277	79.755784	70.913828	73.174737	-6.448679	0.0312765
ZNF875	80.403974	64.182432	66.755556	67.154696	75	85.073684	76	82.808036	79.551136	77.343396	73.944928	77.804805	-8.816584	0.0187379
ZNF91	78.458065	86.538462	85.714286	89.814815	75.730769	73.290323	88.521368	76.06383	75.219178	70.902985	74.876543	74.297753	9.0185631	0.0167187
ZNF93	68.227642	70.114943	66.666667	65.151515	88.47619	81.194444	82.728	86.038961	77.357895	78.330097	70.531034	71.452055	-11.97339	0.0051665
ZSWIM5	74.027228	72.204489	69.320482	73.17119	78.052941	75.952675	80.467213	75.736111	76.974217	75.53869	77.723764	77.857981	-5.107102	0.000808
ZSWIM6	72.706922	63.13217	71.665722	64.542857	78.407025	74.909091	79.647059	70.215859	80.340757	71.021242	71.432468	75.958333	-7.229561	0.0206283
ZW10	73.664179	78.030303	79.62963	75	85.904762	82.533333	88.12766	81.013158	89.705882	78.36036	80.345679	84.54	-7.235326	0.0086685