

gene	P3F-KD_MW	P3F-KD_Log2FC	P3F+_MW	P3F+_Log2FC
A1BG	0.334192779	-0.472438268		
	0.076987969	-0.648882353		
A1CF	0.3836854	1.041532947		
	0.121430145	-0.652072785		
AADAC	0.33693863	-3.349555151	0.925582049	0.015786938
AAMP	0.676678945	-1.039559495		
	0.865006686	-1.773447558		
AASDHPPT	0.420098318	-1.114174793		
	0.836212161	-0.193384059		
ABCA12	0.637131428	-1.185902659		
	0.575987148	-0.351022998		
ABCA2	0.987215722	-0.150214846		
	0.070925424	-0.328536267		
ABCB6	0.867466147	-0.202582131	0.222269989	0.543005645
ABCB7	0.098539921	-4.185581086		
	0.047150282	-1.368698808		
ABCB9	0.554756997	-0.546532314	0.312071695	-1.06762478
ABCC5	0.060079541	-1.040716587		
	0.272292511	-0.224350359		
ABCD1	0.779912935	0.394064029		
	0.976616473	-0.072693437		
ABHD1	0.175027451	-0.925467367		
	0.750689664	-0.107247919		
ABHD13	0.026192564	0.748668128		
	0.982227445	-0.224729399		
ABHD14A	0.775118987	0.710182872		
	0.071169972	-1.387614333		
ABHD14B	0.74070691	-0.882840635		
	0.044888572	-0.158706649		
ABHD2	0.081397238	-1.247434054	0.010771097	1.14233558
ABHD4	0.395095651	-0.126042722	0.677822752	0.150038494
ABHD5	0.942362595	-0.491758447		
	0.185346681	-0.278653055		
ABTB2	0.799170825	-0.824932406	0.497236012	0.37169757
ACAA1	0.16212985	1.177025243	0.077118629	0.344778482
ACAA2	0.025361547	-1.055677682	0.736500304	0.24294344
ACAD10	0.373527623	1.321980941	0.739448855	0.126132336
ACAD11	0.508697209	-0.003181805		
	0.836822674	-0.274183868		
ACADL	0.622694118	-1.413281807		
	0.198383347	-1.893834548		
ACADVL	0.44205214	-1.655247762		
	0.608400445	-0.274728681		
ACAP2	0.033468081	-1.355097809		
	0.119747749	-0.725748582		
ACBD7	0.399672858	-0.820005403	0.609221095	-0.26053249
ACER1	0.606176599	-0.691483894	0.615420282	0.171750006
ACER2	0.696223142	0.279531175	0.875468135	0.138924991
ACIN1	0.038923882	0.290764022		

0.084263319	-0.598580359		
ACLY	0.957300377	-0.212707495	
0.707815699	-1.081641484		
AC01	0.085436911	2.294952953	
0.121430145	-0.342213326		
AC0T2	0.086723441	-0.817119585	
0.021318863	-1.085114768		
AC0T4	0.166157552	-1.983009195	
0.249110536	-0.457670853		
AC0T7	0.08003915	1.4091819	0.373036345
AC0T8	0.34927259	0.265344205	0.223696644
0.639365011	-0.181490606		
ACR	0.189795858	0.475153116	0.450920366
ACSF3	0.629339917	0.682942426	0.11074122
0.005194536	-0.994426256		
ACSM1	0.017364906	-1.835636264	0.168803523
ACSM2A	0.073360682	-2.849870098	0.747289585
0.143126574	-0.661347166		
ACSM2B	0.359761057	-1.480833256	0.299847079
ACSM4	0.648894071	0.733168988	0.369150407
0.146101681	-0.192760563		
ACTL6A	0.524361243	-2.145190625	
0.730027188	-0.989226429		
ACTR1A	0.518268561	-2.606248418	
0.180211683	-0.986442697		
ACTR5	0.710724579	-0.527205766	0.951696668
ACTR6	0.371432561	-2.173533023	-1.44852352
0.935522562	-0.928194448		
ADAD1	0.645524202	-1.550292153	
0.270249477	-1.018639412		
ADAM10	0.938631109	0.226046283	
0.894599755	-0.670040043		
ADAM11	0.326812711	-0.88171135	0.700272636
ADAM18	0.918134197	0.553154964	0.272853086
ADAM2	0.18431112	0.307544211	0.118083665
0.545451244	-0.070766922		0.692844339
ADAM20	0.450451123	1.967462823	0.700272636
ADAM21	0.339659246	-3.839241954	0.300178945
ADAM23	0.790127695	-0.574249033	0.603875417
0.388827099	-0.513732338		-0.94303071
ADAM29	0.409809928	-1.420806392	0.13081232
ADAM30	0.833771101	1.251777762	0.092480216
ADAM32	0.511206972	0.745643158	0.297590299
ADAM7	0.406708666	-0.567599992	0.817336961
ADAM8	0.551702599	0.508564999	0.812482621
ADAM9	0.785316139	-0.200456637	0.12242153
0.31424829	-0.605016029		0.290267266
ADAMDEC1	0.700851836	0.807859489	0.50569404
0.889038588	-0.834362796		0.203676193
ADAMTS1	0.457518789	-1.673095281	

0.238363177	-0.802490321		
ADAMTS10 0.190060004	-0.939293376		
0.159563229	-0.329281294		
ADAMTS13 0.040592829	-1.747893635	0.335370516	0.33135591
ADAMTS14 0.499219335	-0.262408264	0.451389888	0.517815802
ADAMTS15 0.116984394	-0.568725754		
0.717723028	-0.625747935		
ADAMTS16 0.152944089	0.772980259		
0.003033434	-0.763014827		
ADAMTS17 0.00638171	1.298931134	0.521818171	0.225972128
ADAMTS18 0.123892843	-2.178063902	0.057877626	-0.26449001
ADAMTS19 0.34406579	-0.124230282		
0.738268972	-0.187608723		
ADAMTS2 0.136795338	-0.745456519	0.371850987	-1.45525571
ADAMTS3 0.772725211	-0.651644723	0.18821666	0.761573438
ADAMTS4 0.732967163	-0.589078657	0.370179028	0.136550255
ADAMTS6 0.659612561	-1.419595364	0.309759235	0.216329895
ADAMTS7 0.657915442	-0.264283688	0.693913017	0.202424431
ADAMTS8 0.819159157	-0.211263503	0.471117328	-0.28878262
ADAMTS9 0.729439669	0.113015974	0.242433158	0.395423767
ADRM1 0.580796849	0.743499821		
0.011933292	-0.960970792		
AEBP1 0.951696668	0.230534394		
0.882249041	-0.178208484		
AFM 0.10046681	-1.001602513		
0.628717904	-0.452596141		
AGA 0.167356374	-1.842044439	0.691605734	0.326497605
AGAP3 0.264518066	-0.644020632		
0.275376838	-0.299785583		
AGAP4 0.361478061	-0.18114929	0.191650565	0.206969786
AGBL1 0.708978743	-0.638738329	0.172216692	0.653392599
AGBL2 0.508697209	-0.493457831		
0.437425034	-0.111877003		
AGBL4 0.481035002	0.275467145	0.051389698	0.692282276
AGBL5 0.975369738	1.269795304		
0.224946513	-0.511522534		
AGFG1 0.144589549	2.482302291	0.495256895	0.028031469
AGL 0.466081566	-1.678118082		
0.715971166	-0.162126662		
AGM0 0.678394935	-0.028291321		
0.111960342	-0.536936595		
AGPAT1 0.166843568	1.309158085	0.120097383	0.349073782
AGPAT6 0.506193921	-0.14880024	0.779313228	0.546808103
AGTPBP1 0.726504455	-0.369093441		
0.120867304	-0.780865974		
AHCYL1 0.540268773	-0.195930883	0.586162907	0.509326387
AHSA1 0.256242669	0.718285899		
0.315754102	-0.496816754		
AHSA2 0.249110538	0.422597811		
0.490819312	-0.620462316		

AHSG	0.488471278	0.593388138	0.412874669	0.240501723
AHSP	0.212938321	-0.575317882		
	0.820982329	-0.025345752		
AIFM3	0.204728807	-0.742300434		
	0.104721064	-0.940913448		
AIMP2	0.377739638	-0.521635268	0.098221638	0.373638413
AIP	0.413817857	-1.899382673	0.265187965	1.251044476
AIPL1	0.248789681	2.06443155		
	0.493775324	-0.360701101		
AKR7A3	0.472802564	1.049239125		
	0.196751916	-0.489092277		
ALB	0.870542274	0.469551569		
	0.190589105	-0.018490482		
ALDH1L2	0.162835215	-0.999232515		
	0.004007529	-0.790112674		
ALG14	0.033338249	-1.608487455	0.181485414	0.554677653
ALG2	0.895217988	-0.712719063	0.46417107	0.770030432
ALG6	0.039624771	-2.188877435		
	0.115621619	-1.476163594		
ALOX12B	0.050278055	-1.757315676	0.236810715	0.254927002
ALS2CL	0.491311321	-1.180270038	0.25986142	0.442928294
AMACR	0.758408672	-0.484008525	0.893981587	0.013865317
AMDHD1	0.422344012	0.363155415		
	0.363952612	-0.236996787		
AMELX	0.715387545	0.356238649		
	0.44951346	-0.269495164		
AMZ1	0.828893806	-1.455283349		
	0.574920885	-0.719138755		
AMZ2	0.17555661	1.149554516	0.007280709	-0.82920525
ANGPTL3	0.071661143	0.572913662		
	0.413371388	-0.856777178		
ANK1	0.455628014	0.371329836	0.901934239	-0.37433719
ANK3	0.815515752	0.27793185		
	0.149603404	-0.511003153		
ANKIB1	0.98980719	0.755878248		
	0.1511877	-0.982317483		
ANKRD13A	0.028942909	1.859296884	0.178439634	-0.25924873
ANKRD13B	0.237120636	-0.600036131	0.074794228	0.55081396
ANKRD13D	0.354732314	-0.127341019		
	0.299086377	-0.351442938		
ANKRD27	0.888421012	-0.846718425		
	0.37140335	-0.344986356		
ANKRD30A	0.348870299	0.12051876		
	0.750095102	-0.000616737		
ANKRD60	0.398798559	-0.906458108	0.075049635	0.784327448
ANOS	0.046889975	1.83297188		
	0.452329761	-0.634187536		
ANTXR2	0.173448114	-1.509677914	0.761980262	0.193071015
ANXA11	0.261517951	1.599108767		
	0.59371378	-0.381471617		

ANXA6	0.039325387	-3.472998565		
0.922477947	-1.053224729			
ANXA7	0.468475813	0.670908841	0.5754539	-0.52345158
AOAH	0.399672858	-1.166589146	0.281966247	0.805192003
AP1AR	0.425072022	-0.388422524	0.513723184	0.244635822
AP1B1	0.356216826	-0.732560352	0.382136649	0.452202259
AP1G1	0.102259652	-2.001069973	0.675535882	0.218380399
AP1G2	0.032594273	-2.054715358	0.159995277	0.380229317
AP1M1	0.387108559	-0.752925516	0.292586746	0.367716897
AP1M2	0.113556313	1.418632839	0.130319381	0.415201428
AP1S1	0.480062447	1.132560093		
0.861934202	-0.091745494			
AP1S3	0.376472971	1.435733798	0.227796626	0.179866532
AP2A1	0.180720378	-0.924962219	0.729439668	0.185252568
AP2A2	0.50120685	0.336396382		
0.041384019	-0.704950378			
AP2B1	0.168320102	-2.237108321		
0.04758683	-0.650465052			
AP2M1	0.050924038	-1.900983606		
0.3146243	-0.386717675			
AP2S1	0.217568183	-1.60562858	0.74890979	-0.85893929
AP3B1	0.115712082	0.96459022		
0.53186756	-0.375525345			
AP3B2	0.343667329	0.166725292		
0.995946292	-0.290958656			
AP3D1	0.278311629	-0.877073012	0.25986142	0.273932045
AP3M1	0.149318592	0.598353854		
0.077006292	-0.630691915			
AP3M2	0.062901505	-1.165388609	0.875468135	-0.13668929
AP3S1	0.399672858	-1.495479929	0.028148819	0.756026539
AP3S2	0.91627333	-0.799251205		
0.706072413	-0.127556113			
AP4B1	0.144804831	-0.887915388		
0.388396997	-0.371458393			
AP4E1	0.547010783	0.600991123		
0.490327569	-0.268478572			
APBA1	0.193786519	0.843392833	0.763171924	-0.04103338
APBA2	0.365191231	-0.362348624	0.099632719	0.282307065
APBA3	0.485913835	0.865865362	0.143303003	0.443698638
APBB3	0.828284604	-0.273686147	0.179450639	0.049411319
APEH	0.601853042	0.467652336	0.265523354	0.362010548
APH1A	0.021362953	0.47580879		
0.368511746	-0.226910471			
APH1B	0.419197696	0.443034049		
0.231281075	-0.194023741			
APLNR	0.170991827	2.452912391	0.224349749	0.166708913
APLP1	0.769138604	-0.62003811		
0.534082488	-0.188820115			
APOA1	0.160959368	2.068726766	0.789525808	0.179586961
APOA1BP	0.696223142	-0.689667654		

0.019374581	-0.740901622		
APOA2	0.145884926	-4.061027509	0.525890126
APOA4	0.965398278	-0.907922539	0.0888082
0.310131697	-0.382862661		
APOA5	0.403300358	1.805434944	0.232807803
APOB	0.55693881	0.385607902	-0.61434858
APOBEC1	0.331461398	-4.073073678	0.735911058
0.21293832	-1.981416607		0.144720032
APOC1	0.065602809	-2.997525498	0.03138031
APOC2	0.235882677	0.968703743	0.842269119
0.131715272	-0.420675518		
APOC3	0.797360001	-1.020183198	
0.781112738	-1.238045531		
APOC4	0.032000838	-1.307912157	0.741219828
APOF	0.724745249	0.251468461	0.686765226
0.943606709	-0.788568463		
AP00L	0.656502522	-0.472918495	
0.140335234	-0.688550093		
APPBP2	0.290441441	-2.588578084	0.722987494
AQP11	0.572259321	-0.460545805	0.025565789
AQP2	0.836212162	-0.565456876	0.733555628
0.252011272	-0.597312293		0.590708968
AQP6	0.258212172	-3.623683579	
0.871773276	-0.189529339		
AQPEP	0.304944126	-1.079274426	
0.927445058	-0.308051349		
ARAP2	0.073527823	-1.670233664	
0.81794425	-1.557806503		
ARC	0.947028723	-2.205159413	0.37605133
ARCN1	0.134338353	-4.998136379	0.400159813
AREL1	0.384112279	-0.954229094	5.60E-05 -5.032711866
ARF3	0.998440876	1.062771637	0.693913017
0.110731307	-0.363537347		0.785851092
ARFGAP3	0.006914791	-2.083219301	
ARFGEF1	0.311811436	-1.245220332	0.133729468
0.200849007	-0.325110581		0.186327424
ARFGEF2	0.048115168	1.269169367	
0.041696631	-0.608911899		
ARFIP2	0.03237818	-1.287432825	0.811270153
ARFRP1	0.714220799	-0.793302155	0.305075115
ARHGAP12	0.368095659	1.275126329	0.707234433
0.332630216	-0.141989688		-0.49627638
ARHGAP27	0.70433067	-0.309175856	
0.345662576	-0.767636842		
ARHGAP30	0.138036763	-0.860130107	0.832551169
ARHGAP33	0.235265416	-0.722374633	0.147524367
ARHGAP4	0.693913019	0.526902183	0.582940511
0.718307312	-0.607287602		0.212250463
ARHGAP40	0.669831834	-0.166724483	
ARHGAP42	0.82463157	-0.001562826	0.243379285
			0.295643393

0.413817855	-0.256519475		
ARHGAP6	0.371850989	-0.61548282	0.054750095
ARHGDIA	0.13265351	-1.457184342	0.486479965
0.000244954	-1.541591412		
ARHGDIB	0.965398278	-3.216997544	
0.007280709	-1.447862542		
ARHGDIG	0.082494965	0.53916333	
0.250880421	-0.907382132		
ARHGEF10	0.744765884	-1.218100512	0.660178656
ARIH1	0.371432561	0.36337479	0.228951513
0.000984362	-0.853627871		
ARIH2	0.732967163	-0.945555598	0.771529131
ARL2	0.270249479	-3.078591657	0.061693281
0.008563375	-2.368845387		
ARL4A	0.147877677	-0.940810578	0.209007172
ARL4C	0.496245929	1.024773886	0.259769241
0.048916908	-0.602375554		
ARL4D	0.262515365	-0.581064127	
0.722987494	-0.021143552		
ARL6IP1	0.572259321	-1.903066829	
0.249431683	-0.296913258		
ARL8A	0.737089707	0.416203014	
0.356564131	-0.387254293		
ARL8B	0.708978743	0.864856983	0.701431207
ARMC5	0.291870466	-1.476973183	-0.16995888
0.64160187	-0.233520842		
ARR3	0.318779921	-1.665537253	
0.980980476	-0.011860742		
ARRDC2	0.460363192	0.241791502	0.377317122
ARSB	0.843544723	-0.809770133	0.836194854
0.464648284	-0.418107015		
ARSG	0.318211138	0.391857676	
0.312747208	-0.434882436		
ASAH1	0.30273861	0.135592777	
0.835601747	-0.228347671		
ASB1	0.98971006	-0.545450726	0.305681659
ASB10	0.124850347	-0.771010144	0.563391135
ASB11	0.189268378	0.563279141	0.992204499
0.039549744	-0.800838024		0.265319756
ASB12	0.071661143	-1.168899917	
ASB13	0.381555367	-1.409826378	0.466559869
0.648331923	-0.254229669		0.14328466
ASB14	0.576573126	-0.401479644	
0.061068316	-1.024447759		
ASB15	0.071538091	1.306802168	0.091338478
ASB16	0.72415917	-0.015401456	0.105760743
ASB17	0.936765866	-0.180398402	0.1683201
0.331266848	-0.041767903		0.030648573
ASB18	0.822198317	-0.129504268	
0.831331641	-0.121640308		

ASB2	0.379856576	1.045393088	0.053674762	0.685813665
ASB3	0.093815792	-1.699346896		
0.707344934	-0.116042704			
ASB4	0.68527551	-0.129083598	0.133729468	0.101849485
ASB5	0.537171155	1.091283192		
0.768541313	-0.256873135			
ASB6	0.649456418	-0.546319119	0.620485628	0.176861201
ASB7	0.625308989	0.062876886		
0.999671191	-0.257539422			
ASB8	0.409366031	1.088268403		
0.861319954	-0.216360356			
ASB9	0.292945331	0.381465066		
0.45327074	-0.454878031			
ASCC2	0.974123063	-0.260976143		
0.252983397	-0.596781092			
ASGR1	0.237741334	-1.502436265	0.068044237	0.972317774
ASPHD1	0.656220085	0.747443052	0.338119849	-0.2422021
ASPRV1	0.168803525	-1.788927434	0.026884994	0.653633041
ASTL	0.140967173	-0.145946235	0.942984634	0.132021377
ASZ1	0.164490066	-0.462549254	0.300543725	-0.20346682
ATAD2	0.576520631	-0.589309467		
0.647769977	-0.055333539			
ATE1	0.579726403	-0.470375879		
0.008944729	-1.219070992			
ATF4	0.062790977	0.973075402		
0.299450271	-0.280153112			
ATF6	0.09758754	-0.463167569	0.19947645	0.404832766
ATF6B	0.382530809	0.419054735	0.299999333	0.875483316
ATF7	0.1649652	1.542569105		
0.13928685	-0.256650119			
ATG13	0.087315035	-7.197238866	0.084151157	-1.79803865
ATG16L1	0.204491016	0.866873702	0.337994402	0.061416694
ATG2A	0.358606465	0.222001259	0.74772507	0.077969996
ATG4B	0.660178657	0.408686479		
0.979110112	-0.125510636			
ATG4C	0.695067727	-0.529045051	0.563254049	0.158052275
ATG4D	0.520295381	-2.008580774	0.955432226	0.457383172
ATG9A	0.629986081	0.227855093	0.227044114	0.228333046
ATG9B	0.334584158	1.818868017		
0.034790357	-0.755636344			
ATHL1	0.168320102	2.002421398		
0.289372764	-0.413635509			
ATL3	0.968513851	-0.540410251		
0.889656231	-0.250744559			
ATP10B	0.525380247	0.272215948		
0.316131295	-0.175466029			
ATP1A3	0.618831505	0.138975418	0.830112519	0.049987037
ATP2A2	0.606214453	0.336075701		
0.392278089	-0.793277586			
ATP2B2	0.234649298	0.719258164		

0.042248512	-0.668198008		
ATP2B3	0.054032784	-1.403411458	0.622976071
ATP5F1	0.283016378	1.15805046	0.083430539
0.917513857	-0.017151822		
ATP5G1	0.043128235	0.371849174	0.334584156
ATP5G2	0.068755355	-1.175076863	0.187586894
ATP5G3	0.162835215	-3.156514312	0.055145554
0.526910647	-0.409758979		0.176703492
ATP5H	0.861934203	-0.640021381	
0.033794553	-0.613928454		
ATP5I	0.483471079	1.215166651	
0.799170824	-0.925778392		
ATP5J	0.001587611	2.217694217	
0.042967143	-1.056741693		
ATP5L	0.520802723	-0.630237117	
0.772127102	-0.107861593		
ATP5O	0.634344079	-0.353352418	
0.794947264	-0.257308199		
ATP6AP1	0.042967144	-3.077805774	
0.001184488	-4.982670587		
ATP6AP1L	0.377739638	-0.330131999	
0.575987148	-0.363215289		
ATP6V0A2	0.274689382	-0.614040974	0.135767412
ATP6V0B	0.014852823	0.748228521	0.391021673
ATP6V0C	0.138660722	-0.40300082	0.078170425
0.346863262	-0.224840995		0.882750809
ATP6V0D1	0.472320731	-0.445714281	0.106259362
ATP6V0D2	0.927445058	-0.073660102	0.247139479
ATP6V0E1	0.343269164	1.498184476	0.043614574
0.468955476	-2.230180294		0.612962699
ATP6V0E2	0.73002719	1.162647028	
0.965398278	-0.841241495		
ATP6V1B1	0.885334157	-0.635331428	
0.907595511	-0.244667266		
ATP6V1C2	0.720646096	0.804970032	
0.470396101	-0.324418513		
ATP6V1E2	0.889038588	-0.302994356	0.323354121
ATP6V1F	0.447641465	-0.5104268	0.210114955
0.442980909	-0.806235609		
ATP6V1H	0.48542475	0.279677658	0.652271141
ATP7A	0.173695185	0.79143772	0.267993694
0.951696668	-0.480215039		
ATP9B	0.713637677	1.563041176	
0.92806615	-0.091736354		
ATPAF2	0.882865923	0.863761302	
0.445773906	-1.146041519		
ATXN3L	0.547010783	-0.277698728	
0.019374581	-1.812226725		
AUP1	0.050924038	1.730738363	
0.531515468	-0.260587363		

AVIL	0.930550952	0.481424473	0.068399035	0.81385455
AVL9	0.70491108	0.172794275	0.773921829	0.258215059
AVP	0.592091994	0.154791919	0.020752871	0.238270265
AWAT1	0.860091711	0.430978132	0.581332417	0.186958475
AWAT2	0.486403187	-2.288656501	0.682405389	0.175783453
AZU1	0.145633343	-0.558766252	0.128450223	0.316245382
B3GALT5	0.125411814	0.978941603	0.172664472	0.241328966
B3GALT6	0.906976076	-0.275896524	0.324504323	0.297424203
B3GALTL	0.333020415	-0.369270678	0.322206579	0.901562039
B3GNT1	0.332630218	-1.447395761	0.171971195	0.706273169
B4GALNT1	0.012012873	1.888523376	0.919995512	0.05668139
B4GALNT2	0.38796725	0.450240029		
	0.368511746	-0.505752749		
BACE2	0.872081075	1.008204847		
	0.243379285	-0.580207451		
BAG2	0.205008007	2.080022362		
	0.151601067	-0.387739474		
BAG3	0.299450273	-0.337817883		
	0.017145216	-0.971569459		
BAG4	0.016784483	-5.452295299		
	0.174934487	-0.687260418		
BAG5	0.056852911	1.563690161	0.426434431	0.33713973
BAG6	0.02648203	1.410922617		
	0.661609399	-0.410787826		
BAHD1	0.168309922	-0.629372953		
	0.177811562	-0.369345324		
BAP1	0.064443574	-1.275670896		
	0.527549385	-0.289714031		
BATF3	0.502700233	-0.58678867		
	0.712471933	-0.137980598		
BAZ1A	0.21932291	-0.73513508	0.382193612	0.52816307
BAZ1B	0.563781875	-0.597130447		
	0.265523354	-0.763206496		
BBS10	0.674964633	-0.2633382	0.51120697	0.466200665
BBS12	0.860091711	-0.739191051	0.668124306	0.135865744
BCAP31	0.215440558	1.283614065		
	0.137419471	-0.985258194		
BCS1L	0.350481227	-3.950521593		
	0.015242378	-2.988734467		
BDKRB1	0.627675622	-0.327972368		
	0.036712981	-0.679055327		
BECN1	0.586175987	1.326339438		
	0.031691187	-0.828209763		
BET1	0.749502373	-0.280128617		
	0.191650565	-0.462658741		
BET1L	0.036575804	-0.590145392		
	0.227344906	-0.594544788		
BFAR	0.340094456	-1.094432611	0.222566249	0.625127244
BGN	0.299814463	-0.74757703		
	0.92434027	-0.288381911		

BHLHA15	0.132920951	1.701299933		
	0.386679646	-1.109628657		
BIRC2	0.708978743	0.31323029	0.130120909	0.266749086
BIRC7	0.425688113	0.448644554		
	0.461472059	-0.131346845		
BIRC8	0.454979244	-0.525117566		
	0.054032783	-0.834859781		
BLMH	0.313872578	0.646531181		
	0.500709577	-0.152260461		
BL0C1S6	0.747132935	0.424823515		
	0.546490691	-0.239081844		
BLZF1	0.553723637	-0.351619713		
	0.98520443	-0.258867232		
BMI1	0.088025567	0.450597209	0.636015868	0.097647065
BMP1	0.29402285	1.682729152		
	0.393576985	-0.555165796		
BMP6	0.994075379	-1.419267212	0.190854064	-0.12843602
BPIFA2	0.376894902	-0.053476634	0.277446253	0.526708855
BPIFA3	0.857636242	-0.09959109	0.452329761	0.088579804
BPIFB3	0.055543392	-1.802244603	0.737089705	0.107268811
BPIFB4	0.222862794	-2.906956576	0.851503642	0.342496474
BPIFB6	0.598048456	-1.978367882	0.216694613	0.478650675
BPIFC	0.379856576	-1.322759239		
	0.143303003	-0.667422353		
BRAP	0.3836854	-0.295342253	0.985968598	0.365433342
BRIX1	0.051389699	-0.617972832		
	0.213513131	-0.764625654		
BR0X	0.397925412	0.328939179	0.236501082	0.209254596
BRPF1	0.198383349	1.105597207		
	0.361478059	-0.328309931		
BRPF3	0.898310098	-2.56535947		
	0.310504455	-0.817774988		
BSCL2	0.515740788	0.374677	0.497731448	-0.162766446
BTBD1	0.959791609	-0.788941753		
	0.565366777	-0.315374187		
BTBD10	0.262848419	-0.501067088	0.510202289	0.279218308
BTBD2	0.429623277	-1.904420578		
	0.031196176	-1.059502308		
BTBD7	0.488853935	1.168784996	0.112490354	0.707482958
BTBD8	0.592998825	-0.452180369		
	0.894107394	-0.315984603		
BTBD9	0.00724674	-1.674432363		
	0.032000837	-1.035535561		
BTC	0.668693293	-1.014389445		
	0.479090962	-0.343244808		
BTLA	0.109340698	-1.469788465	0.409107276	0.25627326
BTN2A1	0.94080765	0.585938966		
	0.385822695	-0.481171644		
BTN3A1	0.218444281	1.389255964		
	0.173695183	-0.627226403		

BTNL3	0.783513907	-0.158673447		
0.203892866	-0.126137205			
BTRC	0.919375025	0.15440111		
0.374788163	-0.716011363			
C10orf111	0.898310098	1.085591106		
0.239610309	-0.18022624			
C10orf32	0.452329763	0.140930387		
0.961660291	-0.025258559			
C11orf54	0.126782657	-2.120948567	0.761384643	0.112166093
C11orf71	0.955432226	-0.354646606		
0.510202289	-0.220838536			
C12orf4	0.700272637	-0.506070066		
0.863162948	-0.682630764			
C14orf1	0.996569936	-1.202673218		
0.484447379	-0.599718246			
C19orf52	0.735731737	-1.717517708		
0.119001281	-0.786804217			
C19orf54	0.512212684	0.745105534		
0.702590473	-0.136583678			
C1D	0.136177865	-4.534075942		
0.791934103	-1.242175037			
C1GALT1C1	0.664146763	-0.474177223		
0.872388894	-0.156806225			
C1RL	0.718891763	-2.41827906	0.426434431	0.270613216
C1orf85	0.262515365	0.649997585		
0.600764902	-0.284451746			
C2	0.727091179	0.143246143	0.908215002	0.109011961
C2orf42	0.093545259	1.490064251		
0.581332417	-0.412720571			
C2orf76	0.814302165	-0.850173928	0.787119521	-0.30770597
C3orf38	0.779912935	0.379933571		
0.005219707	-0.912552467			
C3orf43	0.581647753	0.73026174	0.791331842	-0.29732448
C3orf58	0.196480971	1.693055278	0.75306096	0.326254778
C5orf15	0.656502522	-2.927258113	0.688150178	0.524251601
C6orf58	0.283016378	0.226600972		
0.157027462	-0.504620517			
C7orf25	0.107400696	-0.489102183	0.232536812	0.247310792
C7orf55	0.641601871	0.452841996		
0.19892935	-0.133735121			
C9orf3	0.580796849	0.335774114	0.880398825	0.344158271
CABIN1	0.225993578	0.655038072	4.77E-05	-2.255593397
CABYR	0.270658738	2.1299371		
0.295463669	-0.237573118			
CACHD1	0.10242388	-0.967025496		
0.939252931	-0.669662244			
CALCOC02	0.440197946	-1.23945488		
0.663579309	-0.852772028			
CALHM1	0.637689516	0.483240829	0.305312744	0.29365964
CALR3	0.008140018	1.82987255		

0.908215002	-0.079795009		
CAMSAP1	0.263515403	-1.968578205	0.978174972
CAND1	0.30308456	0.214832222	0.860967223
CAND2	0.498227149	0.70800924	0.345180114
0.346863262	-0.990580859		0.242670219
CAPN10	0.84538001	-2.273970138	
0.493281994	-0.277853012		
CAPN11	0.735321968	0.381174884	
0.602942066	-0.581917621		
CAPN12	0.083187871	1.773102243	
0.064240435	-1.589007338		
CAPN13	0.045419133	-4.230283456	0.39112285
CAPN15	0.873004589	-2.117821282	-0.50711031
0.0864362	-0.554395635		
CAPN2	0.166157552	-0.655534603	0.089638414
CAPN3	0.954186927	-0.55177504	0.044553568
CAPN5	0.794947265	0.598944123	0.875468135
0.988462877	-0.354681229		0.019204732
CAPN6	0.494700441	1.218533923	0.868745142
CAPN7	0.769736031	-0.349793832	0.295905395
0.785917138	-0.313605404		
CAPN8	0.727091179	-0.317583197	0.030110734
CAPN9	0.13051809	-1.156502994	0.720147345
0.48493593	-0.283704966		
CAPRIN1	0.215533789	-3.428233822	
0.016082953	-2.050045608		
CAPZB	0.405825169	-1.344816851	
0.001591873	-3.135023194		
CASC3	0.453741645	-0.796617622	
0.359425452	-0.360858179		
CASP10	0.307260847	0.575124114	0.460727679
CASP14	0.099339229	-1.993207059	-0.79692216
0.756624802	-0.292672686		
CASP2	0.297633754	-0.735708489	
0.093239961	-1.482846026		
CASP6	0.753654572	-1.805964825	
0.247189728	-0.261682311		
CASP9	0.749502373	-0.205585489	
0.570665194	-0.431198621		
CATSPER2	0.222269991	-1.486576434	
0.781712835	-0.351348002		
CAV2	0.155429772	-1.933234021	0.380705388
CBLB	0.947962171	0.653440448	-0.2103879
CBLC	0.322971313	1.284703032	0.965398278
0.222269989	-0.382407098		0.178725581
CBLL1	0.135357918	-0.653626058	
0.620485628	-0.056378726		
CBX1	0.124083884	-2.058681406	0.334584156
CBX3	0.376051332	-0.052488179	0.236128761
CBX5	0.791934104	-1.256850295	0.064578819
		0.665282244	0.705772326
			0.35193721

CBX6	0.140756285	1.288915217	0.742992174	-0.37488759
CBX8	0.493281996	0.993006899		
0.289372764	-0.031316368			
CCDC115	0.238363179	-3.46843821	0.001562257	-2.96274211
CCDC116	0.531002817	-0.314674919	0.39836184	0.698277576
CCDC117	0.685850081	-0.425157694	0.216985522	0.758593486
CCDC134	0.738268973	-0.575665139		
0.182765814	-0.040805226			
CCDC22	0.376472971	-0.126300842		
0.050094754	-1.081194663			
CCDC34	0.890273941	-2.50963581		
0.21179205	-0.782629842			
CCDC47	0.024603288	-1.062233151	0.219322908	0.266090649
CCDC79	0.945473137	-0.029253469	0.145236129	0.278536977
CCDC80	0.273317984	-1.081712786	0.193786517	0.226990414
CCDC88B	0.338410122	-0.526145543	0.803112258	0.260092309
CCIN	0.975993098	0.48840907	0.357788649	0.215989182
CCL3L3	0.013351707	-1.670167006	0.450685708	0.274919242
CCS	0.038732378	-1.909702575	0.032951337	0.644027324
CCT2	0.02505585	-7.566828565		
0.208097488	-6.498098933			
CCT4	0.125620497	-4.971850138		
0.044435432	-4.037874129			
CCT5	0.297996467	1.227665151		
0.142663033	-0.482399712			
CCT6A	0.073402153	-4.63653698		
0.236810715	-3.387201249			
CCT6B	0.553794178	-0.789172856	0.281267631	0.245521369
CCT7	0.348468303	-0.390119746		
0.69333593	-1.003558382			
CCT8	0.548572525	-0.805782702		
0.055344174	-0.747314704			
CCT8L2	0.386251028	-2.873293242		
0.064127966	-1.085871654			
CD164	0.84599196	0.725573928		
0.882865922	-0.366678308			
CD207	0.135767413	0.353452093	0.037283006	0.747134658
CD2BP2	0.31518887	-0.770497673		
0.094465962	-1.082020432			
CD300LG	0.686424834	0.302807108		
0.749502372	-0.433513131			
CD63	0.192717308	-1.028103571		
0.073151338	-1.507549054			
CD68	0.246551772	-1.125959514		
0.820982329	-0.061486007			
CD74	0.694490284	-0.288586904		
0.987839296	-0.617166087			
CD81	0.374788165	0.4985182		
0.31424829	-0.373526616			
CD93	0.292945331	0.556289047		

0.571993482	-0.154980979		
CDK2AP2	0.186908087	-1.511436224	
0.809149425	-0.345090298		
CDK5RAP3	0.901281627	-0.517116902	
0.514703007	-0.286972767		
CDRT1	0.763171925	0.559279397	0.212078199
CDS1	0.671541069	-0.415580127	0.675132151
0.676678944	-0.359764658		
CDY1B	0.869311586	0.144669052	0.855795542
CDY2B	0.476182966	0.113617984	-0.22140826
CDYL2	0.764364149	0.920535304	0.292945329
CECR2	0.093851358	0.905460626	0.447489916
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CELA3B	0.804609745	0.031924336	
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CENPA	0.017364906	-1.476552625	
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CENPC	0.001240929	-9.670667355	1.01E-06
CENPO	0.480231945	-0.990089214	-4.889598289
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CENPP	0.869926891	-2.169592553	
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CEP170	0.399672858	0.39503394	
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CEPT1	0.239610311	-0.269274623	
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CERS1	0.102095634	-0.404158511	0.40274197
CERS2	0.361066953	-1.864232104	0.063553604
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CERS3	0.03315909	-2.36062814	
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CERS6	0.523785705	0.265734921	
0.086088491	-1.388026224		
CETP	0.002221465	1.995370038	
0.831331641	-0.204714525		
CFDP1	0.249271075	-1.22121839	
0.174190115	-3.635109232		
CFH	0.025810177	1.384608378	
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CFHR4	0.769375002	-1.415902558	
0.775099683	-0.291468754		
CFI	0.704072565	-0.022956668	

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CFL2	0.417120215	0.871569239	
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CFLAR	0.239922811	0.522089531	
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CHD2	0.134338353	1.22464963	
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CHD3	0.259701427	0.539745852	
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CHD4	0.310504457	-0.533726371	
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CHD5	0.186848199	0.614062783	
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CHGA	0.241175686	-1.601356938	-3.17218379
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CHID1	0.41931516	1.15521353	0.143409878
CHMP2A	0.002280121	-7.823398887	0.675024228
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CHMP3	0.437425036	0.09782896	
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CHMP4B	0.157946003	0.386162968	
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CHMP5	0.04654478	1.323434319	
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CHMP6	0.026034979	-2.148444508	
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CHN2	0.119005904	-0.637018769	0.022968082
CHORDC1	0.966644447	-0.459491887	0.540096058
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CHP1	0.266734942	0.252841577	0.695430457
CISH	0.409366031	-0.287719844	0.152016947
CKAP4	0.257554508	0.412200249	0.312372677
CLCC1	0.839265705	-0.275194462	0.599740521
0.172216692	-1.795269114		0.592446963
CLCN3	0.256405893	-1.015814768	
CLCN7	0.052903827	-3.979033978	0.104885017
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CLDN14	0.208606117	-0.935296259	
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CLEC10A	0.333020415	0.795026494	0.206408157
CLEC4D	0.885334157	-0.547488178	0.784887135
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CLEC4F	0.429623277	1.455741804	
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CLEC4M	0.743583261	-2.020497358	
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CLIC4	0.311998443	-1.343851346	0.929929687
			-0.20357386

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	0.386679646	-0.818242352		
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	0.081396051	-0.557515625		
CLN8	0.85089087	0.20824882		
	0.063123044	-0.481925116		
CLPTM1	0.977863266	-3.31871412		
	0.134135152	-2.064825513		
CLTA	0.005637716	-2.798697109		
	0.009731148	-0.799051235		
CLTB	0.521818173	-0.4226588		
	0.587777197	-0.058491516		
CLUAP1	0.573323245	-0.420179547	0.059866884	0.132434862
CLUH	0.061182218	-1.084079749	0.016116807	0.795548668
CNDP1	0.040534555	-0.314299649		
	0.087444909	-1.457462778		
CNDP2	0.973499749	-0.948859367	0.827066508	0.231839834
CNN3	0.063903517	-0.987683044		
	0.107962092	-0.252906805		
CNOT1	0.005428402	-7.598348931		
	0.348909655	-2.175498202		
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CNOT4	0.468955478	-1.996863675		
	0.005557111	-1.011006564		
CNPY1	0.052999686	2.190367778	0.409809926	0.259821353
CNPY2	0.568542992	0.72120475	0.661878111	0.203129822
CNPY3	0.248789681	-0.846546957		
	0.878549262	-0.377741441		
CNTD1	0.794947265	1.162444602	0.163306742	0.321428553
CNTNAP2	0.192716368	-1.015817298	0.06224074	0.508845681
COA3	0.148502305	0.345265541		
	0.298722778	-0.979392542		
COG2	0.481035002	0.440814068		
	0.657915441	-0.256623353		
COG3	0.923719449	0.917759795		
	0.001324846	-1.997017755		
COG4	0.532541527	0.054403538		
	0.267541819	-1.155021151		
COG5	0.491458292	0.740069106	0.045954968	0.280661165
COL26A1	0.871157736	0.71947079	0.118451885	0.211882641
COL4A3BP	0.149162221	-1.122456577	0.126006956	0.626956812
COL5A2	0.344863595	0.310631356	0.848440682	0.261349573
COLGALT2	0.647208233	-1.258330214		
	0.282666039	-1.128104356		
COMMD9	0.265523356	-0.992846646	0.046889974	0.759550471
COPA	0.589932779	-3.819511231		
	0.007972295	-4.909640909		
COPB1	0.529466367	-5.469064148		
	0.015160487	-3.412902096		

COPB2	0.007289224	-9.418041576		
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COPE	0.148063602	-3.406899988		
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COPG1	0.012555539	-5.14588471		
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COPG2	0.093698208	-1.156754758	0.391413605	-0.4033653
COPS6	0.564309938	-0.451608103		
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COPS8	0.279526237	1.349233984		
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COQ9	0.971629906	0.359680438		
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COR01A	0.168574688	-0.740908935		
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COX15	0.833771101	0.474213129		
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CPLX4	0.40011044	0.505576692		
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CPM	0.295971166	-1.468369948	0.37844494	0.214376522
CPN1	0.091575094	-0.483806296		
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CPN2	0.898928707	0.378609898	0.112490354	0.090089707
CPNE7	0.156341221	-1.231975358	0.448109047	0.040125302
CPNE9	0.478605625	0.309626619	0.614429951	-0.14967788
CPQ	0.19459199	-0.823719555	0.984097978	0.530365419
CPT1C	0.653962362	0.197482333		
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CPVL	0.004794745	-1.351943667	0.508196031	0.216473251
CPXM1	0.901403753	0.394630039		
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CPXM2	0.19191661	0.9100128		
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CPZ	0.26485287	-0.454219656	0.180720376	0.277441044

CR1L	0.322015582	-1.168809321	0.540785908	0.409264257
CRABP1	0.350078054	-0.639266462		
	0.410698577	-0.261263136		
CRABP2	0.995946292	-0.538327395		
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CRCP	0.49229613	-0.329797906	0.76973603	0.292636166
CREB3	0.192716368	-1.011056688		
	0.025670465	-1.113741998		
CREB3L2	0.132920951	1.489060888	0.605941449	0.01166807
CREB3L4	0.075305756	1.111720998	0.061343132	0.709153059
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CRIM1	0.457518789	-0.208668221		
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CRIP2	0.145020358	-0.468160443		
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CRISPLD2	0.040229346	1.192842413	0.203059413	0.182601211
CRX	0.509198644	-0.061264901		
	0.776316677	-0.167275166		
CRYAA	0.349675175	-1.232671367	0.037784945	0.758118474
CRYAB	0.107675743	-0.852311558	0.311460951	0.245306438
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	0.451859687	-0.218308423		
CRYBA2	0.697957588	-1.333532377		
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CRYBA4	0.905118113	0.521586535		
	0.159099891	-0.175604087		
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CRYGA	0.297996467	-0.193761098	0.348468301	0.276696835
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CSRP1	0.159995279	-0.624450091	0.008415563	0.703167466
CTBS	0.699693613	0.255659918		
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CTRB2	0.949206881	-0.618028218	0.25722611	0.073971265
CTRC	0.871773276	-2.320782294		
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CTRL	0.978486682	0.2663549	0.031318829	0.676754463
CTSA	0.022723076	1.519782964		
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CTSC	0.231281077	-0.520105048		
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CTSE	0.984097978	-0.945998336	0.572791164	0.099154492
CTS0	0.006173644	1.41298508	0.860967223	0.102410911
CTSW	0.887186065	-0.213410451		
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CTSZ	0.921857267	-0.553293453		
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CTTN	0.839876705	-0.863308009	0.478120554	0.007051748
CUEDC1	0.147652448	-0.738274768		
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CUEDC2	0.643281654	-0.709394297		
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CUL9	0.373947512	-2.607179386		
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CWC27	0.887803504	0.315649546	0.37436769	-0.35244657
CYB561	0.047368134	0.366709018	0.412479308	0.208442469
CYBB	0.115712082	1.646631046	0.229155625	0.256430388
CYBRD1	0.364777485	-0.00544558		
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CYP11B2	0.301274174	-0.019026016	0.885334157	0.141341109
CYP26A1	0.693913019	-1.09271537	0.938631108	0.254749861
CYP2C19	0.851503643	0.522801674	0.878549262	0.194672383
CYP2E1	0.094158259	0.796384906		
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CYP3A7	0.456971536	1.272078162		
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CYP46A1	0.773323453	0.056653076	0.726504454	0.169905323
CYP4A22	0.234474178	1.109421264		
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CYP4B1	0.171971197	-1.866643739	0.236191735	0.746274091
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DAAM2	0.177181847	2.446153849	0.800378642	0.490536327
DACT2	0.807577901	0.480760849		
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DAD1	0.587238873	-1.00205574		
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DAG1	0.569073189	0.332758261	0.046201725	-0.89283423
DAGLB	0.975993098	-0.913439031	0.09648574	0.154520013
DAK	0.023192875	-1.629889213	0.860091711	0.164824698
DALRD3	0.747132935	0.35780843		
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DAZL	0.046630877	1.313437804		
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DBNL	0.232196258	1.246748712	0.297996465	0.624516618
DCAF13	0.506193921	0.508513988	0.835601747	0.306950391
DCST1	0.394444362	0.140223644	0.952319189	0.262974544
DCUN1D1	0.06687249	-2.134259028		
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DCUN1D2	0.153168802	1.476340957	0.135562544	0.701147774
DCUN1D3	0.043128235	0.017223911	0.064918673	0.690143053
DCUN1D4	0.311624503	0.68005238		
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DDHD2	0.298359476	0.127260166	0.034389068	-0.81754944
DDI1	0.54493189	0.40954448	0.656220084	0.400844225
DDI2	0.02118707	-1.746515722	0.466081564	0.031959872
DDN	0.97662845	-0.435843222	0.739982493	0.301843158
DDOST	0.296547384	0.340973318		
0.585625267	-1.676960985			
DDX31	0.784681667	0.324136319		
0.038531007	-0.816582303			
DDX39A	0.738268973	0.370975748		
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DDX3X	0.316131297	1.645124763	0.142025259	0.327635809
DDX42	0.13192257	1.367684393		
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DDX49	0.366019604	-1.16857702		
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DDX5	0.852729457	0.640875841	0.649456416	-0.10796677
DDX52	0.648331924	-0.888592923		
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DECR2	0.971629906	-0.009628909	0.598048454	-0.43618585
DEF8	0.289728696	-3.848334716		
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DEGS1	0.642161595	0.323284196		
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DERL1	0.045330341	-1.639697415		

0.056144628	-1.561600753		
DERL3	0.261850131	-0.408067566	
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DGAT2L6	0.318400659	-0.824106046	
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DHDDS	0.004358292	-3.479981378	2.09E-06 -5.392198377
DHH	0.300383839	-0.183636166	
0.05926966	-0.655361247		
DHRS1	0.677822753	0.040217676	
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DHRS7B	0.893981587	0.478684676	
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DHRS9	0.081433011	0.792436753	0.404656279 0.263934652
DHRSX	0.055244791	-0.991068708	
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DHX8	0.804609745	2.051090323	
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DHX9	2.52E-05 -2.500503372	0.006321489	-1.344651122
DI01	0.803097973	-0.174081689	
0.095549283	-0.571651545		
DI03	0.387108559	0.028750799	
0.303105455	-0.515094711		
DIP2A	0.316508785	0.045875706	
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DLG3	0.775717766	0.519766622	0.174066281 0.522235018
DLX1	0.312747211	1.507470401	
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DLX2	0.044352764	-1.595043793	0.427799385 0.060397971
DLX3	0.76675027	0.177887966	
0.94858451	-0.676500158		
DLX5	0.680685517	0.909537141	0.803400268 0.293521828
DMD	0.928088402	-3.402585901	
0.370081682	-0.943221075		
DMXL1	0.051483257	-2.157556732	
0.157256716	-0.072837273		
DMXL2	0.569603622	-1.462328921	
0.039474838	-0.995089194		
DNAH11	0.10242388	-1.586628772	0.38968811 0.152513819
DNAH2	0.030051396	2.060780785	
0.559040051	-0.585371606		
DNAH5	0.53837823	-0.746234924	0.248041289 0.690973095
DNAH9	0.14545215	1.151804454	
0.937387575	-0.007468816		
DNAJA3	0.22375412	-5.920164837	
0.069833469	-3.890160957		
DNAJB1	0.681831915	-0.388310894	
0.361066951	-0.583155199		
DNAJB11	0.143945174	0.513509618	
0.086292869	-0.381621365		
DNAJB12	0.093087614	-1.997775965	0.006276661 0.706364467

DNAJB13	0.399672858	0.03574333	0.114769814	0.202224597
DNAJB14	0.816122712	-0.453053082	0.648331923	-0.12614275
DNAJB2	0.330683662	-0.204699687		
0.602152111	-0.233543919			
DNAJB3	0.135357918	-1.23340614		
0.656785007	-0.043406234			
DNAJB4	0.862262629	0.420290123	0.551518382	0.285136127
DNAJB5	0.271269678	-1.070797476	0.441124483	0.221624751
DNAJB6	0.540785909	-0.098565933		
0.984721509	-0.084925905			
DNAJB7	0.085937852	-3.904797144	0.286748376	-0.63415286
DNAJB8	0.797336501	0.21669283	0.708325269	0.085274113
DNAJB9	0.884099899	-0.215945762	0.504695062	0.234682798
DNAJC1	0.97225317	-0.375808482		
0.439272522	-0.097875566			
DNAJC10	0.368511748	0.2458165	0.047850386	0.758424261
DNAJC11	0.350078054	0.301852442	0.893981587	0.198038888
DNAJC12	0.836212162	-0.017431788	0.952319189	0.195816639
DNAJC13	0.507695116	0.482474745		
0.051764788	-0.518720859			
DNAJC14	0.403181568	0.793534696		
0.656220084	-0.544805015			
DNAJC16	0.854568844	0.408717514		
0.860091711	-0.312837689			
DNAJC17	0.001278762	-5.203863199		
0.227044114	-6.978408922			
DNAJC18	0.898928707	-1.035206568		
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DNAJC19	0.555365407	-0.183911313		
0.58831575	-0.037129355			
DNAJC21	0.084728866	-1.553461061		
0.784715266	-0.113694059			
DNAJC22	0.596421269	-1.789078878		
0.11020785	-1.865009469			
DNAJC24	0.425980013	-0.360708298		
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DNAJC25	0.985968598	-1.138105627	0.8386548	0.461945269
DNAJC27	0.449513462	0.985827904		
0.645524201	-0.092166629			
DNAJC28	0.372627262	-1.809113622	0.587487036	0.135962494
DNAJC3	0.379008927	0.225510032	0.232654806	0.324624763
DNAJC30	0.530490416	0.977778499		
0.653398423	-0.146751074			
DNAJC4	0.734144253	-1.174422689	0.308272343	0.349738909
DNAJC5	0.354529147	0.075432098		
0.144697157	-0.600161791			
DNAJC5B	0.122561976	-1.169883704	0.483959094	0.276082717
DNAJC5G	0.250719163	-1.27649152	0.912552981	-0.0017462
DNAJC7	0.338908808	1.084951912		
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DNAJC8	0.508697209	-0.693751225	0.110556604	-0.59794836
DNAJC9	0.013736293	0.90283293	0.890891717	0.257191742
DNAL4	0.481035002	-0.507691796		
	0.133526983	-0.683202858		
DNASE1L1	0.074161081	-1.593859064	0.121995034	-0.90943138
DNASE2	0.367679863	-1.615662012		
	0.525380245	-0.511643005		
DNASE2B	0.714220799	-0.867754145	0.86070579	0.134614807
DNHD1	0.095238754	-2.022000828		
	0.519281459	-1.018768956		
DNM1L	0.805214659	1.690090383	0.971629905	0.222889396
DNMBP	0.68240539	0.30109607	0.206689018	0.045227288
DOCK2	0.385394657	-2.16293537	0.276410225	1.008395551
DOLK	0.956054916	0.423816104	0.961037373	0.177853056
DOPEY1	0.346462741	-1.398366992		
	0.607853618	-0.634678958		
DPEP2	0.331195555	-0.312502132	0.143516815	0.47079631
DPEP3	0.987215722	-0.642199094	0.032823223	0.615969491
DPF1	0.747132935	0.205560787		
	0.517256682	-0.626846321		
DPF2	0.857022589	1.01353456	0.085011511	0.132530897
DPF3	0.727091179	1.552716263		
	0.153618982	-0.960276852		
DPH3	0.264518066	-1.096578984	0.361478059	0.087389381
DPP3	0.939874792	-0.342768631	0.491311319	0.604971664
DPP7	0.119933777	0.656884688		
	0.108477102	-1.051965416		
DPP8	0.438576973	0.540890925	0.034947388	0.901505057
DPPA2	0.423712157	-0.637342865	0.221382903	0.242481372
DPT	0.814302165	-1.55741987	0.407150842	0.144110322
DPYS	0.184569608	1.577445735		
	0.827066508	-0.021925735		
DPYSL3	0.715328142	-1.030963006		
	0.653294282	-0.368512096		
DR1	0.902022666	0.271924702		
	0.073527822	-1.317901709		
DRAM1	0.335760065	-0.19484605		
	0.291512766	-0.181488856		
DRG1	0.090528129	-0.80499248	0.970383429	-0.21132713
DRG2	0.738839936	-0.868134575		
	0.586175985	-0.211494593		
DSCR3	0.254682626	-0.946046294	0.301903967	0.118913715
DSE	0.145190283	-1.754124456		
	0.431411005	-0.196099139		
DTX2	0.10341366	-0.212360736	0.415606578	0.097422762
DTX3	0.145861612	-0.560424728	0.959573771	0.090062112
DUOX2	0.029992158	-3.392292548	0.336152623	0.188739116
DUS3L	0.161426793	-1.316090715		
	0.098380676	-1.554396685		
DVL1	0.901403753	0.481348421	0.207251574	0.31686626

DYM	0.535625701	0.603654342	0.779013423	0.484211279
DYNC1I1	0.558514381	0.290079157		
0.528443322	-0.238320701			
DYNC1LI2	0.553794178	-2.54397075		
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DYNLL2	0.964152194	0.513671203	0.563254049	-0.00460166
DYX1C1	0.554317679	-0.215126052	0.288661787	0.27628279
DZIP3	0.33693863	-0.445526669	0.135357916	0.684480772
EEF2	0.606760622	-1.995233477		
0.054553255	-1.117796719			
EBP	0.198929352	-0.982859418		
0.013005184	-0.548501448			
ECE2	0.809452302	0.690132741		
0.683552888	-0.129181548			
ECEL1	0.680112595	-0.921663157		
0.070499122	-1.082073119			
ECH1	0.290084921	-0.493135226		
0.565366777	-0.320349345			
ECI2	0.561475856	0.636366012		
0.370081682	-0.329976238			
ECT2L	0.322588799	-0.659182886	0.502700232	0.668127755
EDC4	0.17518314	1.552773187		
0.270929317	-0.231105097			
EDEM1	0.316131297	-0.170627956		
0.198383347	-0.997002146			
EDEM2	0.234034324	0.009324411	0.129526899	0.454757255
EDEM3	0.983474457	0.884939288		
0.971006658	-1.051300398			
EEF1G	0.924961137	-0.590030534		
0.787119521	-2.541552344			
EFNA2	0.97225317	-1.332564894	0.246233223	1.318588996
EFNB1	0.910073809	-0.358571557		
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EHBP1	0.405604474	-0.301643497		
0.784715266	-0.284407083			
EHD1	0.341282759	0.529011745	0.86992689	0.349177902
EHD2	0.33693863	-0.142832097	0.668977855	0.119903409
EHD3	0.474249688	-2.368438488	0.787119521	0.212312266
EHD4	0.862548534	0.419749886		
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EIF1	0.837433286	-2.184149424	0.939252931	-1.50899264
EIF2A	0.240235599	0.541814641	0.853955626	0.18097395
EIF2B4	0.050646342	-3.445826332	5.53E-05	-3.687565712
EIF2B5	0.014629657	-1.812933083	0.004455686	-2.61689049
EIF3A	0.051109877	-5.635365081		
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EIF4B	0.213181406	1.377627289		
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EIF4E1B	0.329907108	-0.46414126	0.042886788	0.370904735
EIF4G1	0.129329366	-1.653738943		
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EIF5	0.177432875	-1.298165844	0.34726408	0.176565761
EIF5A2	0.322206581	0.688182383	0.638806307	0.264440118
ELAVL1	0.634344079	0.911520394	0.08515312	-0.99860772
ELP2	0.986592156	-1.673916232		
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ELP3	0.3090152	-0.415048124	0.746540947	0.162310427
EMID1	0.753654572	-0.405268662		
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ENC1	0.770632428	-0.731866476	0.080174007	1.042075902
ENDOU	0.340490262	1.532029365	0.946095346	0.173646519
ENOSF1	0.367009175	0.584498167		
0.259701425	-1.286680157			
ENPP6	0.750095103	0.685335239	0.022399156	0.645409554
ENTPD4	0.861319955	0.076145997		
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ENTPD7	0.652271143	-0.18196858		
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ENY2	0.885951391	0.4523998	0.118821005	0.813886191
EPHX1	0.606214453	-0.591657391		
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EPHX4	0.436502971	0.271965709		
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EPM2AIP1	0.592091994	1.528173595	0.668124306	0.196867605
EPN3	0.806424836	-0.768552429		
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EPS8	0.294202694	-1.001517337		
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ERAP1	0.047938511	-1.358329367		
0.735911058	-0.540745583			
ERAP2	0.280221914	-0.456488936		
0.331850707	-0.643846482			
ERF	0.849053093	0.635892878		
0.044105537	-0.868996392			
ERGIC1	0.291155364	-0.165173631		
0.926203007	-0.322154227			
ERH	0.179450641	0.951500842	0.575987148	0.400171699
ERLEC1	0.560618507	0.32826689	0.512212682	0.184478335
ERLIN1	0.033663639	1.121454843		
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ERLIN2	0.214377448	0.373839799	0.076207795	0.269600994

ERMP1	0.805214659	-0.552924484		
	0.784715266	-0.035014704		
ER01L	0.321443032	0.571227241		
	0.426434431	-0.596638902		
ERP29	0.260192146	-0.490101732	0.467038447	0.324607937
ERP44	0.061368665	-0.70888757	0.265523354	0.193409769
ESYT1	0.18431112	1.279566697		
	0.626013218	-0.339326112		
ETF1	0.421451381	-1.326331299		
	0.80098273	-0.918362637		
ETFB	0.028771142	1.5873735		
	0.304575799	-0.208505934		
EVA1A	0.186908087	-0.931251847		
	0.0288283	-0.273019677		
EXOC3	0.915033006	-0.37993449	9.71E-06	-1.800268367
EXOC3L1	0.213800958	-2.944028848	0.931172259	0.049943607
EXOC5	0.475121086	-1.466145018		
	0.019979957	-0.484735412		
EXOC6B	0.979733555	-1.085870474	0.616078918	0.704915867
EXOC7	0.373947512	0.829115645	0.052999685	-0.84832708
EXOC8	0.119005904	0.979884863	0.167596915	0.16032622
EXTL1	0.721231202	0.836759014		
	0.851503642	-0.255418325		
EXTL3	0.828893806	0.243615248		
	0.59587932	-0.304826803		
EYA1	0.106462311	1.461401402	0.02207926	0.952218978
EZH1	0.175681232	0.680095312	0.832551169	0.42495125
F12	0.159795282	0.483242591		
	0.731202704	-0.135867481		
FAAH2	0.213513133	-0.564464584	0.409809926	0.539334529
FABP1	0.725917893	-0.338270375	0.991580881	0.183210608
FABP2	0.633503673	-1.382900899		
	0.389262797	-0.270591551		
FABP3	0.612234359	0.233932553		
	0.856409021	-0.070464411		
FABP4	0.533054931	-0.751964765	0.554317678	0.109504095
FABP5	0.812482622	0.720066786		
	0.476666958	-0.142269041		
FABP7	0.749439496	-1.512043316		
	0.444109504	-0.786400952		
FADS3	0.989086465	0.383733491		
	0.596421267	-0.552274471		
FAF1	0.201399958	0.533652897	0.391845703	0.130446496
FAF2	0.155657255	-0.317318172		
	0.176931082	-0.280482894		
FAM102A	0.678394935	0.169775663		
	0.410698577	-0.494233041		
FAM120A	0.627121278	0.16096586		
	0.027703538	-0.840847568		
FAM129A	0.578656884	0.401001495	0.16615755	-1.02578854

FAM131C	0.667555512	-0.177116814	0.05524479	0.609760283
FAM132A	0.87423621	-0.435954466		
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FAM159A	0.252335026	0.779392291		
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FAM192A	0.256898007	0.59445638	0.494804293	-0.35593487
FAM19A1	0.503697127	0.839304378		
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FAM210A	0.597505836	-2.079116944	0.462741064	0.048366431
FAM21A	0.160100248	-1.350943066	0.126950493	0.731482402
FAM3C	0.580261511	0.638303212	0.696223141	0.184545594
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FAM63B	0.883482876	-0.456870689	0.252983397	0.198677758
FAM98A	0.598591299	-0.910213381	0.409809926	-0.09592757
FAP	0.145884926	0.460668066	0.014347075	-1.06564171
FAU	0.393143732	0.120623655	0.01081865	-3.15579299
FBXL12	0.916893568	-0.269331841		
0.81794425	-0.550395115			
FBXL13	0.452445723	-0.606648366		
0.146725421	-0.659329222			
FBXL14	0.341282759	-0.540927785	0.824023097	0.208744104
FBXL15	0.900166109	-0.231966257		
0.86992689	-0.369204084			
FBXL16	0.155202542	-1.797104867	0.169045625	0.288045554
FBXL17	0.554841422	0.406201037		
0.961660291	-0.566632249			
FBXL19	0.269231913	1.115997408		
0.203892866	-0.718480014			
FBXL2	0.397053419	-0.914343288		
0.893363483	-0.266873692			
FBXL21	0.581332419	-0.486767372	0.485913833	0.224964923
FBXL22	0.857636242	0.44464179	0.093698207	0.209434706
FBXL3	0.919995513	-0.389116299		
0.430994152	-0.563264901			
FBXL4	0.337332075	1.071268071		
0.077249469	-0.751966631			
FBXL5	0.19032442	-3.200097242	0.567483305	0.20596252
FBXL6	0.902641637	0.557562492		
0.303840036	-0.155215764			
FBXL7	0.94174059	-0.142953399		
0.485913833	-0.689901191			
FBXL8	0.322206581	-2.780822649	0.03346808	-0.90826857
FBX010	0.175930674	-0.33867396		
0.89150956	-0.019146307			
FBX011	0.370521915	1.352667748	0.162129848	-1.64418068
FBX015	0.651144656	-1.931325324	0.147844621	0.792959242
FBX016	0.721231202	-0.497281341	0.327970891	0.543586867
FBX017	0.143409879	2.462664595		
0.038292622	-0.799017219			
FBX018	0.236501084	1.45381171	0.847216136	-0.27236786

FBX02	0.847216137	0.321622767	0.194323225	0.485656883
FBX021	0.019172885	-4.020356926	0.434202714	0.565269424
FBX022	0.53024615	-1.515904932	0.542740776	-0.13525187
FBX025	0.341282759	-3.133735315		
	0.626567142	-0.254741998		
FBX027	0.549614908	0.385825862		
	0.420549053	-0.355968328		
FBX028	0.278138407	-1.936590962		
	0.036505716	-2.060776799		
FBX03	0.856409022	0.052177142	0.051389698	0.754410352
FBX030	0.086436202	-3.763621048		
	0.969137025	-1.316225185		
FBX031	0.450451123	-1.348185216	0.580261509	0.480213271
FBX032	0.478120556	-1.289375243		
	0.473284667	-1.065103894		
FBX033	0.97139972	0.219004529	0.95891701	0.13394979
FBX034	0.240235599	0.365577979		
	0.354123029	-0.708812118		
FBX036	0.63702957	0.613285997		
	0.135562544	-0.454349913		
FBX038	0.212364628	1.799077876		
	0.799170824	-0.228716382		
FBX039	0.794947265	-0.034314358		
	0.108477102	-0.704447792		
FBX04	0.089343413	-1.143106526		
	0.955432226	-0.104810581		
FBX040	0.643841988	1.706740951		
	0.553270918	-0.251434991		
FBX041	0.359015813	-0.883527549		
	0.655655357	-0.210052038		
FBX042	0.316131297	-0.582615338		
	0.011014152	-1.678518053		
FBX043	0.664714408	-2.141998083		
	0.048381179	-1.528692693		
FBX044	0.19191661	0.884405203	0.078038315	0.810864636
FBX045	0.913792889	-0.777736717		
	0.002957263	-0.786775213		
FBX046	0.637131428	0.084470426	0.825240147	0.057188516
FBX047	0.970383429	-1.761766056		
	0.019496487	-1.269774891		
FBX048	0.81066409	-1.954532513		
	0.8386548	-1.068361288		
FBX06	0.59317296	-1.41745802		
	0.652271141	-0.099510638		
FBX07	0.16807878	1.261221978		
	0.232807803	-0.536280649		
FBX08	0.084587828	-0.791907715		
	0.000710157	-1.778688762		
FBX09	0.841710285	0.462347483	0.555365405	0.084541999
FBXW10	0.025515601	1.165132995	0.051670801	1.120904533

FBXW12	0.437425036	0.117387063	0.218444279	0.568078682
FBXW4	0.435582027	-0.738020234		
0.050924037	-1.245402265			
FBXW5	0.280221914	-1.247251958	0.754248327	-0.60252546
FBXW8	0.031565376	-1.578884406	0.745357421	0.401679226
FBXW9	0.82584883	0.260661705	0.809452301	0.232417853
FCGRT	0.01465168	1.240552134	0.141571123	0.669221422
FCH01	0.203183632	-1.741484988	0.024562545	0.545012953
FERMT2	0.918134197	0.469325329		
0.270929317	-0.918005601			
FETUB	0.075049637	-0.502783761	0.379432604	0.525813256
FFAR2	0.404502077	1.10116171		
0.537686802	-0.997256564			
FFAR3	0.530490416	-0.518165782		
0.023192874	-0.218259625			
FFAR4	0.868081213	0.531965744		
0.938009323	-0.445440033			
FGF10	0.21991007	-3.34704508	0.481035	0.259862834
FGF3	0.130120911	0.480413894	0.556938808	0.170547881
FGF8	0.170260044	-0.28153604		
0.022630114	-0.918125153			
FGFBP3	0.241803848	0.931572601		
0.952319189	-0.112419567			
FGL1	0.182042511	0.84349345	0.217600084	0.344671429
FIG4	0.587777199	-0.485124446		
0.041150865	-0.531479137			
FIGNL2	0.263515403	0.355552498	0.822198316	-0.22564869
FITM2	0.530490416	-0.435351806	0.808846578	0.204358767
FKBP10	0.194054737	-1.082488611		
0.946717589	-0.193376046			
FKBP11	0.491311321	0.471540888		
0.614429951	-0.059786695			
FKBP14	0.164015965	0.347731654	0.588854532	-0.08330562
FKBP15	0.043533198	0.352268298		
0.555365405	-0.504693191			
FKBP1B	0.14545215	0.628034878		
0.144159719	-0.308310509			
FKBP2	0.306420379	0.993937766		
0.518268559	-0.159623947			
FKBP3	0.256898007	-2.163119615		
0.026723815	-0.843416825			
FKBP4	0.226147852	-1.119625747	0.565092855	0.125614995
FKBP5	0.037929409	-1.397641133		
0.564309937	-0.177453699			
FKBP6	0.679963147	0.315396296	0.161102885	0.385740191
FKBP7	0.31991948	-0.25542507	0.933657903	-0.68948355
FKBPL	0.129329366	-0.7344085		
0.76555693	-0.084036152			
FLG	0.340094456	0.482526135		
0.906356698	-0.164830889			

FLOT1	0.472802564	0.534438797		
	0.467756823	-0.911823959		
FLOT2	0.632916829	0.602816429		
	0.217419386	-0.342140008		
FLRT2	0.059443447	-1.511673258	0.703460376	0.008650783
FMNL2	0.070925425	-1.925406213		
	0.953564319	-0.642766491		
FM01	0.496245929	0.292658176		
	0.056144628	-0.565528588		
FM02	0.13741497	-0.486192345		
	0.218444279	-0.411489218		
FM03	0.709560519	1.860738818	0.842933148	0.227481711
FM04	0.570134291	-0.462161444		
	0.60130886	-0.317997398		
FM05	0.858249981	0.35914113	0.968513851	-0.16648286
FNDC3A	0.13051809	-1.480086856	0.201399956	0.725061705
FOLR1	0.075562587	-1.312470267	0.043451948	0.792002441
FOXA1	0.232807805	1.030380046		
	0.107790853	-1.041230238		
FOXA2	0.562031588	0.542386801		
	0.181230135	-0.281369693		
FOXA3	0.688150179	-1.333969827	0.134135152	-0.26821219
FOXF2	0.626567143	-0.083141426	0.899547377	0.03812064
FOXRED1	0.590472242	-0.238051577	0.532541525	0.200524673
FRMD6	0.345106225	-1.508428651	0.618280557	0.004225506
FSIP1	0.811270154	-0.738526817		
	0.434202714	-0.339690899		
FTSJ1	0.415158972	0.099734049	0.191650565	0.483382424
FUCA1	0.827675504	-1.339027654		
	0.504195964	-0.291252126		
FUNDC1	0.268335375	0.261399485		
	0.892803901	-1.492138446		
FUT10	0.994075379	-1.347009971		
	0.000438701	-0.611390233		
FXN	0.345662578	-0.451564791		
	0.978486682	-0.165870216		
G2E3	0.134338353	-0.952558531	0.052903826	0.206301052
G3BP1	0.933657903	0.361198941		
	0.008822694	-0.624739872		
GABARAP	0.302372058	-0.623345961	0.177432873	0.156024952
GABARAPL1	0.769736031	-2.66573733		
	0.275032962	-1.24592142		
GABPB1	0.401424912	-1.011112341		
	0.942362595	-0.268266337		
GAL	0.750095103	-1.46611678		
	0.214955056	-0.465618879		
GALC	0.840487802	0.134513341	0.059654853	0.295508022
GALNT15	0.980980477	-1.834921414		
	0.560355279	-0.195588039		
GALNT2	0.283367009	-1.235049561		

0.563254049	-0.362873908		
GAN	0.005045798	-1.234803693	
0.002846276	-0.955175823		
GANC	0.532541527	-0.581218465	
0.111081368	-0.794186445		
GAPVD1	0.251091535	1.014921053	
0.605122774	-0.078882873		
GATAD2A	0.278138407	1.184678573	0.197838441
GC	0.600221168	-1.140753681	0.181108992
0.252983397	-0.801386562		
GCN1L1	0.405825169	0.336557105	
0.927445058	-0.209823251		
GDAP2	0.263849332	0.516468926	0.566953817
GDI2	0.313122038	-2.081915867	0.442764711
0.263181763	-0.269053567		
GDNF	0.658952025	0.277860455	
0.374498611	-0.223754878		
GDPGP1	0.484935932	-0.551515629	
0.292945329	-0.641276232		
GFPT1	0.464171071	-0.390505481	0.022909993
GGA1	0.666986909	0.263679855	0.616435046
0.509198643	-0.218767145		
GGA3	0.060079541	0.577726443	
0.149382687	-1.027211174		
GGH	0.209796825	0.198886082	
0.397528194	-0.325044972		
GGN	0.252011274	0.231812617	
0.59371378	-0.007346819		
GGT2	0.111767427	-0.71650027	
0.121162384	-0.656150004		
GGT6	0.502700233	0.401634392	0.563254049
GHSR	0.163773961	-0.477362131	0.183240159
0.731387525	-0.132845335		
GID4	0.606760622	0.111662739	0.460838218
GIMAP1	0.389262799	0.012330526	0.146046488
0.672128879	-0.470889321		
GIPC1	0.68355289	0.535657573	
0.790729706	-0.546722392		
GIPC3	0.365191231	1.761791781	0.86992689
GJA3	0.713054721	0.776698267	0.081097176
GJB1	0.699693613	-0.325170573	0.488363252
GLB1	0.999688175	0.044363611	0.285476972
0.354529145	-0.111249642		0.787542685
GLB1L	0.280918766	0.672077886	
0.881015491	-0.231227536		
GLCE	0.471839167	-0.880415299	
0.002601941	-0.744378467		
GLE1	0.772127103	-0.860054609	0.995946292
GLI2	0.171480988	-3.240674532	0.201155924
0.114002801	-0.860255005		

GLRA4	0.102752966	-3.658875562	0.291512766	0.818783137
GLTPD2	0.759598634	-0.184545492	0.291155362	0.095113109
GLYCTK	0.14762589	-1.174568176	0.856409021	0.49567027
GMCL1	0.001562257	-1.595977953		
0.974123063	-0.674016167			
GMPPB	0.633230587	0.159113141	0.716554954	0.35465241
GNA11	0.377317124	-1.199879365		
0.013886796	-1.366570216			
GNA13	0.94858451	-1.442108128		
0.132618729	-0.280748826			
GNAI2	0.199202764	0.149737745		
0.359015811	-0.049047399			
GNAI3	0.35371721	0.322638659	0.244961924	0.591582545
GNA01	0.031196177	-0.968688563	0.767347146	0.231177225
GNAQ	0.834381217	-0.453497039		
0.063345227	-1.292499287			
GNAZ	0.872388894	-0.147563433	0.092328865	0.211582188
GNB2L1	0.445773908	-1.063244715		
0.895836284	-0.210063522			
GNL3L	0.070438396	-3.821476933		
0.003143081	-2.109831153			
GNPNAT1	0.642721523	-1.859335171	0.163306742	0.0666067
GNPTAB	0.969760218	0.583030156		
0.027869802	-0.887040468			
GNPTG	0.691029361	0.905092562		
0.98971006	-0.476642032			
GNS	0.221382905	0.475207434		
0.254283622	-0.238010604			
GOLGA1	0.816729781	0.194731961		
0.016048563	-1.005455779			
GOLGA2	0.333020415	0.805102631		
0.26384933	-0.726104121			
GOLGA3	0.423775309	1.719027785	0.269227348	0.132717981
GOLGA4	0.228550917	0.552137693	0.98877467	0.197674796
GOLGB1	0.695067727	0.282695714		
0.728852306	-0.327560604			
GOLIM4	0.87916571	-0.160260568	0.063456561	0.423272665
GOLPH3	0.817336961	0.478903231	0.245279316	0.69323957
GOLT1A	0.168803525	0.901436559	0.131515153	0.088942204
GORASP2	0.828284604	0.564957701	0.400548307	0.168365164
GPC2	0.14202526	1.351670967		
0.682979047	-0.317965439			
GPD1L	0.644402524	-0.522488188		
0.388827099	-0.421620479			
GPIHBP1	0.262515365	1.78936238	0.492788929	-0.45862625
GPMB	0.417848894	-4.042819653		
0.044187817	-0.925224421			
GPR108	0.654018711	-0.701968798		
0.602526529	-0.081900931			
GPR119	0.84599196	0.039268784	0.835601747	0.374269139

GPR26	0.839876705	-0.513725802	0.375629983	0.387457551
GPR37	0.482495845	0.148118365		
0.5382027	-0.464845727			
GPR50	0.354450314	-1.973410276	0.451752227	0.758893307
GPR89B	0.57598715	-1.805635069		
0.339698943	-0.369093904			
GPRC6A	0.681171517	-2.1261286	0.867447919	0.580346895
GPSM1	0.92558205	0.353197183		
0.817336961	-0.238686813			
GPSM2	0.893363483	0.16587209	0.063903516	-0.6286889
GRB14	0.814908903	0.583614363		
0.019455778	-0.483377811			
GRIP1	0.663579311	-0.207407152		
0.285829662	-1.206627603			
GRN	0.048648425	1.490827519	0.831331641	0.216665518
GRPEL1	0.151378108	-0.930724457		
0.750095102	-0.076974153			
GRPEL2	0.631561906	0.345211844		
0.627675621	-0.154389922			
GSAP	0.70491108	0.422444935	0.143730871	-0.50154662
GTF2E1	0.214089063	-2.611835606		
0.799170824	-0.132305174			
GTF2F2	0.385822697	-0.449600341	0.023145518	-0.40699834
GTPBP10	0.501704383	-0.492840638		
0.911933107	-0.113608794			
GYS1	0.371850989	0.696768093		
0.300543725	-0.514234109			
GYS2	0.809452302	0.403151589		
0.519281459	-0.198800502			
GZMA	0.962283233	-0.006337591		
0.036857301	-1.206340212			
GZMH	0.352312749	-2.184850772	0.97139972	-0.21299148
GZMK	0.688663224	-1.141182846	0.347071031	0.172380421
GZMM	0.270589253	-0.717088223		
0.853342497	-0.183307094			
H2AFZ	0.000202822	1.733085746	0.1746861	1.165654043
H2BFM	0.061296296	1.088014286	0.144043112	0.26864348
HAA0	0.766153531	0.29843615	0.935522562	0.204271231
HABP2	0.089196206	-1.547893889		
0.598591298	-0.123051206			
HACE1	0.002075372	-1.49860567		
0.249753118	-0.277479985			
HAND1	0.389257462	-2.593902733	0.555365405	0.294431889
HARBI1	0.306420379	-1.170336325	0.149603404	0.775738445
HAS2	0.449982154	0.667235717	0.592632362	0.203744458
HAUS3	4.53E-06	-7.328458271	0.000197864	-3.086948927
HAUS7	0.014099945	-3.84239404		
0.000266447	-5.241663906			
HAX1	0.670971135	0.612723561		
0.167596915	-0.183642249			

HCCS	0.795550266	-0.332299886	0.893981587	-0.04466146
HDHD3	0.800378643	-0.747701537		
0.117167044	-0.547358638			
HDLBP	0.782313064	-1.052450138		
0.351288456	-0.421435743			
HEATR3	0.759598634	0.574831141		
0.436042357	-0.213106743			
HECTD1	0.24211836	0.925255009		
0.088317057	-0.554202332			
HECTD2	0.767347147	-1.171303992		
0.463217459	-0.755071452			
HECTD3	0.897691551	-0.491895937	0.943606709	0.158815143
HECTD4	0.106483865	-0.672638569		
0.203317422	-0.298755825			
HECW2	0.112844795	-0.371364924		
0.252983397	-0.714748188			
HERC1	0.385394657	-0.590302704		
0.026192563	-1.406917336			
HERC3	0.065146062	1.28573147		
0.165918563	-0.565427729			
HERC4	0.35371721	-0.068568727		
0.010250523	-1.026752328			
HERC5	0.246551772	-2.287877966	0.631561904	0.416645949
HERC6	0.721231202	-0.498689602	0.146535935	0.625241987
HERPUD1	0.038732378	0.172834183	0.938009323	0.233928981
HERPUD2	0.045185313	-3.439075158	0.298722778	-0.46808427
HES1	0.162778597	1.160946175		
0.378501591	-0.664824489			
HESX1	0.189795858	-3.176903109	0.243695237	0.237931459
HEXA	0.329907108	0.984383414	0.324120627	0.214579358
HFE	0.916893568	-0.814898676	0.099499708	-1.00665391
HFM1	0.376051332	0.834203474		
0.377317122	-0.536136509			
HGD	0.417848894	-1.765422328		
0.52640026	-0.187432995			
HGFAC	0.096016599	0.701932802		
0.092935464	-1.296597614			
HGSNAT	0.602726301	0.337082981		
0.292756117	-0.703983461			
HIGD1A	0.075305756	1.228163171		
0.209796823	-0.339349689			
HILPDA	0.775717766	0.829353814	0.624352715	0.082057767
HIST1H1D	0.127757501	-2.396076577	0.408036058	0.262885002
HIST1H2AA	0.404502077	-1.427147175	0.791331842	
0.008208204				
HIST1H2AB	0.011593818	-2.169431129		
0.638806307	-0.651381439			
HIST1H2AC	0.13196425	1.609806953	0.084870093	
0.630258816				
HIST1H2AD	0.036505717	0.598964507		

0.18174096	-0.771296607		
HIST1H2AE	0.223456728	0.099714049	0.57652063
0.059207447			
HIST1H2AG	0.933441493	-0.075047524	
0.346494805	-0.379471087		
HIST1H2AH	0.068755355	2.174532662	
0.939252931	-0.554356254		
HIST1H2AI	0.970383429	0.519993956	
0.115712081	-0.364737204		
HIST1H2AK	0.430536913	0.752959769	0.816729781
0.159666856			
HIST1H2BA	0.804609745	0.307292442	0.720646095
0.202594378			
HIST1H2BB	0.125620497	2.14369405	
0.04451823	-0.585553201		
HIST1H2BC	0.084870094	1.845808304	
0.558514379	-0.023634634		
HIST1H2BE	0.314060398	-2.131485241	
0.329131734	-0.319788028		
HIST1H2BF	0.287597534	-0.56732046	0.817336961
0.340679373			
HIST1H2BG	0.067105501	-3.82019882	0.539751881
0.171660671			
HIST1H2BH	0.787119522	-0.638152744	0.171971195
0.583946299			
HIST1H2BJ	0.559255589	0.69536243	0.331651969
0.333387278			
HIST1H2BK	0.303676621	0.454226458	
0.297316845	-0.200993751		
HIST1H2BL	0.738217953	-0.941281719	
0.200404915	-0.701702205		
HIST1H2BM	0.529978266	0.660071229	0.549093593
0.428894691			
HIST1H2BN	0.833161085	-1.923927841	
0.950451714	-0.618327289		
HIST1H3B	0.921541453	-2.560796873	
0.101339444	-0.287084091		
HIST1H3C	0.799774674	-0.665067762	0.532541525
HIST1H3D	0.348066602	0.598964507	0.159721137
0.134949375	-0.867991612		
HIST1H3F	0.22206474	-3.969770062	0.384780578
HIST1H3G	0.899547378	-2.724824805	0.207815239
HIST1H3H	0.491803593	0.331206632	0.505194421
HIST2H2AB	0.239298097	-2.183424995	0.625948814
0.097587538	-1.191491993		0.711484732
HIST2H2AC	0.932414999	0.799743408	0.234904668
0.307901358	-0.334516591		
HIST2H2BE	0.091274973	1.42506276	
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HIST2H2BF	0.34927259	-3.307751062	0.36177913

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HIST2H3C	0.585625269	-0.984306032	
0.69304745	-0.191564604		
HIST2H4A	0.240548674	-1.925407326	0.360245614
HLA-C	0.86869636	-0.590447816	0.328978825
0.95294174	-0.319132361		
HLA-DMA	0.390119051	0.200578067	0.857022588
HLA-DMB	0.729439669	-3.201913148	-0.00081762
HLA-DOB	0.367264359	1.055036406	0.531002815
0.603486911	-0.533440464		-0.38680671
HLTF	0.128149068	-0.607175983	0.227044114
HM13	0.579191528	0.368295512	0.54429997
0.670971134	-0.017428649		
HMBX1	0.627121278	-0.550831878	
0.759598633	-0.017300841		
HMGCS2	0.302005801	0.785692356	
0.539751881	-0.669574803		
HMGNI	0.304575801	-0.584836562	
0.04272646	-0.629443116		
HMGXB4	0.52793218	0.087444802	
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HMHA1	0.233502514	-1.741862126	
0.920232687	-0.409200764		
HMP19	0.185606245	-1.751125903	0.633230585
HN1L	0.852729457	0.416294625	0.06117841
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HNF1B	0.313872578	1.190200623	
0.209229265	-1.202480062		
HNRNPC	0.781112739	0.008080941	
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HNRNPF	0.259852852	0.632601128	
0.148305141	-0.313210539		
HNRNPH1	0.021055987	-5.481595363	1.70E-05
HNRNPH2	0.592632364	0.070650948	-1.812294112
0.67610732	-0.232206899		
HNRNPK	0.008113468	1.589080081	
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HOMER1	0.669831834	0.376326719	
0.37394751	-0.127763103		
H00K2	0.751874178	-1.459943996	0.179704054
H0XB1	0.785917139	-1.33549701	0.137911059
HPR	0.55746376	-0.290414074	0.650018963
0.496740838	-0.149922368		-0.20668115
HPS1	0.677822753	0.182765374	0.190324418
HPS4	0.698536088	-1.410390131	0.613376924
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HPS6	0.210081021	1.437966159	
0.937387575	-0.254331658		

HRC	0.702590474	-0.104476221	0.618831503	-0.25435777
HRG	0.390226856	-0.164824331	0.601308533	0.26032879
HS2ST1	0.725917893	-1.070485285		
0.084587827	-0.806691111			
HS3ST3B1	0.725917893	-0.251045076	0.379856574	0.272133311
HSBP1	0.632674152	-0.36650086	0.178818262	0.520771337
HSCB	0.0041385	-3.277341159		
0.000370952	-1.729896127			
HSD17B13	0.945473137	-0.387942254	0.562462756	0.296541469
HSDL1	0.387323123	-0.389258718		
0.074539532	-1.180421315			
HSF1	0.150045586	-2.515854158		
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HSF2	0.997193581	-0.226079628	0.710142463	0.487214488
HSF2BP	0.14202526	1.226967143	0.069053447	0.63205727
HSF4	0.055743205	-1.46866891		
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HSPA12A	0.190451073	-1.87775686	0.530246148	0.293896339
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HSPA4L	0.735364621	0.227332369		
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HSPA9	0.245279318	-3.847216536		
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HSPB2	0.157256718	-1.674183345		
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HSPB9	0.92806615	0.155085136	0.911933107	0.220782372
HSPBP1	0.554317679	-2.018255614		
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HSPD1	0.009101286	1.185349527		
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HSPE1	0.697957588	0.412422872	0.629895099	0.247067374
HSPH1	0.803400269	0.017083394		
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HTRA2	0.804609745	-1.939829152	0.958545942	0.377746789

HTRA3	0.874852135	-0.368645517		
0.1825092	-0.344287196			
HTRA4	0.197023139	0.352688732	0.342473715	1.282037428
HTT	0.298359476	-1.5518171	0.426889133	0.30615569
HYAL1	0.125576585	-1.767484761	0.324459912	-0.05583887
HYAL2	0.348468303	-0.911547408		
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HYAL3	0.000846372	-1.543069094	0.774520341	0.223639531
HYOU1	0.846604002	-2.515426851		
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IAH1	0.994075379	-0.668128516		
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IAPP	0.265523356	-0.31975861		
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ICA1	0.289366445	-1.03488222		
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ICMT	0.046201726	1.424677521		
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IDS	0.328744493	-0.73559938		
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IFI30	0.633230587	0.460036647	0.59587932	0.102445389
IFI35	0.429166881	1.571797396		
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IFI44L	0.94485096	0.923815179		
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IFIT1B	0.348066602	0.375745152		
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IFIT3	0.004077577	1.292147272		
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IFITM3	0.840293912	-0.620309657		
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IFNA10	0.484502379	0.470718091		
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IFNA13	0.715387545	0.487728372	0.252983397	0.236102525
IFNA14	0.323737228	-2.581547665	0.969137025	-0.78792206
IFNA16	0.801586937	-1.991299487		
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IFNA17	0.271269678	1.396248417		
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IFNA21	0.29474267	-0.287003894	0.728852306	0.047841191
IFNA5	0.567483307	-1.908409415		
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IFNA6	0.696898325	-1.563882473	0.608564858	-0.73700766
IFNA7	0.954809563	-4.344721643	0.76973603	0.21217949
IFNA8	0.535111047	-0.350135024		
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IFT122	0.523249163	1.453212593	0.139352265	0.623344037
IFT172	0.889038588	0.417398133	0.130717031	0.731443332
IFT20	0.289728696	0.599745943		
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IFT52	0.209512907	-0.56448723	0.657350126	0.721101227
IFT88	0.587777199	0.369672234		
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IGFBP4	0.734733032	0.654157644		
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IHH	0.208637379	-0.021417958		
0.905198285	-0.609502062			
IK	0.071916481	-2.450215927		
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IKBIP	0.740629352	0.63339898		
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IL15RA	0.780883099	0.084597198		
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IMMP1L	0.306050873	-0.651249376		
0.820374497	-0.707010407			
IMMP2L	0.084597377	-8.305448083		
0.119709398	-0.801828016			
IMP4	0.098380677	2.59899448		
0.073527822	-1.129531133			
ING2	0.395965049	-0.446861488	0.686999766	0.012428047
INSIG1	0.431451676	1.127042497		
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INTS9	0.000479545	-8.396669415		
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INVS	0.325272605	-1.19153602	0.021943382	0.224833909
IP09	0.490327571	-0.89019174	0.874852134	0.156130314
IPP	0.050003315	-1.349851632	0.966021352	0.20289342
IQCB1	0.135210313	0.934227969	0.356381104	0.992412841
IQGAP2	0.453270741	-0.909937491		
0.045606503	-1.022775739			
IQUB	0.169045627	0.139686986	0.574388104	0.572559084
IRF3	0.217568183	0.186305451	0.159563229	-2.01356761
IRF8	0.266531274	2.008178159		
0.621589446	-0.197305269			
ISG15	0.722401901	-0.091497672	0.935522562	0.48100672
ISL1	0.538718848	0.506733013	0.808846578	0.107412001
ISL2	0.517762494	-0.458804718	0.214377446	0.618177381
ITCH	0.184828365	1.70622186		
0.02391338	-0.249651139			
ITGA6	0.786518267	0.328316786		
0.957923147	-0.090923738			
ITGBL1	0.472320731	0.288349112		
0.936765865	-0.291869661			
ITIH1	0.897691551	-0.356118237		
0.545451244	-0.362080269			
ITIH3	0.564814229	0.585382559	0.958260277	0.194312866
ITIH4	0.458465825	0.351662472	0.375629983	0.470910741
ITSN1	0.582940512	-2.697562818		
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IVNS1ABP	0.125620497	-1.295138678	0.334192777	0.04344947

JAG1	0.790729707	-0.842206158		
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JHDM1D	0.938320211	-0.360459128		
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JOSD1	0.071415212	1.684731832		
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JTB	0.601308862	-0.50069883		
0.962283232	-0.816062462			
KANK3	0.299086379	0.198303569		
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KBTBD11	0.005557112	1.121170607		
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KBTBD12	0.119005904	-1.738703868	0.004771434	0.765717139
KBTBD13	0.455628014	0.723847891	0.108994053	0.158914886
KBTBD2	0.165441365	-2.384207558	0.379432604	0.603120476
KBTBD3	0.405476023	0.219380317	0.294676496	0.272229202
KBTBD4	0.408187556	-0.144996466	0.410058585	0.206271142
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KBTBD7	0.232501889	-0.555751741		
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KBTBD8	0.194054737	-1.402949436	0.183537261	0.429929182
KCNE2	0.423259435	-0.476771545	0.416054472	0.357921141
KCNG3	0.938631109	1.347298148		
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KCNIP2	0.198960137	-1.3178416		
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KCNRG	0.46799642	-0.362542774		
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KCTD1	0.860705791	0.298517549	0.800378642	-0.0477724
KCTD10	0.392710767	-1.491677455		
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	0.76555693	-0.250483973		
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	0.009026921	-1.510784138		
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	0.367679861	-0.345461183		
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	0.086006783	-0.305416419		
KCTD9	0.785315264	-0.376667178	0.35146001	0.583975627
KDELC2	0.512715927	0.972307116		
	0.176680583	-0.241495011		
KDELR1	0.876084211	-0.582597672		
	0.240235597	-0.485362113		
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	0.409809926	-1.139521922		
KDM1B	0.127757501	-0.655166692	0.851503642	-1.05302486
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	0.185346681	-0.350155352		
KDM2B	0.533054931	0.53177154		
	0.628784941	-0.997954805		
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	0.697379262	-0.260935925		
KDM6A	0.375629985	0.119678593		
	0.664714407	-0.343960412		
KDM7A	0.771529132	0.882727468		
	0.103082891	-1.230082293		
KEL	0.997817228	-0.326438406	0.06050673	0.273938802
KHSRP	0.131515154	1.431118909		
	0.142663033	-0.343605508		
KIAA0101	0.334975832	0.642595207		
	0.377739636	-0.266542649		
KIAA0141	0.419647865	-0.608096577	0.819766773	-0.27570964
KIAA1109	0.02505233	2.068823655	0.059232661	0.001551084
KIAA1161	0.190854066	-1.117286792		
	0.109859966	-0.777799777		
KIAA1279	0.990957269	0.833781916	0.730027188	0.218492467
KIF1B	0.523343253	-0.309730774	0.277100616	0.021831727
KIF1C	0.28618265	0.31413169	0.42507202	0.069719429
KIF20A	2.36E-05	-9.856141271	0.00010978	-6.51687318
KIF3A	0.442516386	1.419967382	0.894908864	0.060987318
KIF4A	0.002725096	1.887638802	0.661878111	-0.78180649
KIF5C	0.200573948	-0.517774446	0.100628871	0.681925278
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	0.53923524	-0.102846987		
KIFAP3	0.854568844	0.292061684	0.503198548	0.22814747

KIFC3	0.227097669	-2.349717986		
	0.860319661	-0.372039175		
KLC1	0.012012873	1.87850411	0.870542274	0.235949425
KLC3	0.644402524	-1.123724058		
	0.344863592	-0.661889413		
KLHDC3	0.785316139	-0.229171034	0.724745248	0.44981105
KLHL1	0.524361243	-0.601025538		
	0.865006686	-0.054999198		
KLHL10	0.700562214	-0.718148052		
	0.839876705	-0.030384014		
KLHL11	0.859477716	0.304216679		
	0.078567847	-0.903814442		
KLHL12	0.658480953	0.754898465	0.062460354	0.668613412
KLHL13	0.019619063	-4.512573244		
	0.00864243	-1.170027808		
KLHL14	0.852116505	-0.725854877		
	0.829503111	-0.093698958		
KLHL15	0.873886677	-0.605950432	0.929965495	0.01273071
KLHL17	0.171725962	0.233174437		
	0.037497424	-0.949449629		
KLHL18	0.216403988	1.433811046		
	0.819766773	-0.566862153		
KLHL2	0.226143443	1.493572134		
	0.471357873	-0.461441714		
KLHL20	0.717723029	0.485227342	0.040305464	0.683363468
KLHL21	0.668124307	0.090635139		
	0.632117923	-0.327806033		
KLHL22	0.478363056	0.335462	0.956677633	0.119820516
KLHL23	0.025567133	-2.208228752	0.485424749	0.291769825
KLHL24	0.377739638	1.039659699		
	0.072279006	-0.246853736		
KLHL25	0.06126037	-0.559880991	0.019415142	0.127796406
KLHL26	0.381980793	0.657795498		
	0.060828772	-0.775550479		
KLHL28	0.444376157	0.517796483	0.335760063	-0.43829417
KLHL29	0.416502652	0.045413232		
	0.817336961	-0.067400889		
KLHL3	0.958545942	-0.348139439	0.150710723	0.302351298
KLHL30	0.409366031	1.259129157		
	0.617454539	-0.068961716		
KLHL31	0.390667738	-2.881655998		
	0.189615132	-0.888669771		
KLHL32	0.297996467	1.179037397	0.470396101	0.205424453
KLHL33	0.743583261	-1.719704164		
	0.347665193	-0.250835826		
KLHL34	0.396617854	0.374117529	0.825240147	0.090151979
KLHL36	0.246551772	-1.930581517	0.911313287	0.179934643
KLHL38	0.855795542	0.413258878	0.513723184	0.212692139
KLHL40	0.954186927	-0.410998548	0.094158257	0.847396254
KLHL41	0.920616049	-0.754225109	0.535625699	0.39328938

KLHL42	0.073527823	1.340544424		
0.000358991	-1.028096457			
KLHL5	0.056632881	-1.303077765		
0.074281795	-0.904706491			
KLHL6	0.258870999	0.881858502	0.545451244	0.11250016
KLHL7	0.884099899	-0.479373217		
0.17705643	-0.479180522			
KLHL8	0.163542893	0.706346308		
0.30753067	-1.002473367			
KLHL9	0.819159157	0.828163332		
0.431909478	-0.260532004			
KLK11	0.510987006	0.747149538		
0.305023497	-0.096633847			
KLK12	0.211792052	-1.573243973	0.768541313	0.01700285
KLK13	0.153168802	-0.63164388		
0.457518787	-1.322110484			
KLK14	0.092631767	-1.995614597	0.532028371	-0.22502639
KLK15	0.878549263	-0.037932427	0.735321966	-0.02533888
KLK2	0.735911059	0.379114038	0.650018963	0.147102398
KLK4	0.770931295	-0.327716658		
0.8337711	-0.020868157			
KLK5	0.3090152	-0.432714451		
0.200024648	-0.159836719			
KLK8	0.127366866	2.052226269	0.119933775	0.238980648
KLK9	0.384966907	-0.376185524	0.097271718	-0.55261669
KLKB1	0.047019977	-0.482888743	0.763171924	-0.17584488
KRT1	0.898310098	0.472621372	0.693913017	0.088703343
KRT5	0.211792052	1.352457868		
0.189005042	-0.356629862			
KRT6A	0.65478125	0.565120845		
0.095852633	-0.537266699			
KRT73	0.106937883	-1.374038781	0.655090828	-0.08051142
KRT78	0.077511694	1.782132961		
0.140125073	-0.604355582			
KRTAP10-9	0.457045682	-1.904991489		
0.164490065	-0.612841			
KRTCAP2	0.229458409	0.585281289		
0.027047012	-1.121627934			
KTI12	0.68419602	0.293450708	0.98980719	0.239573612
LACTB2	0.801586937	1.610574678	0.001084629	0.951279599
LAMP2	0.900166109	-2.670198961		
0.01650071	-0.834685114			
LAMP3	0.934279416	0.959383548		
0.713637676	-0.396218813			
LAMTOR2	0.310504457	0.75770083		
0.004067502	-0.896275725			
LAPTM4A	0.983474457	0.147839558	0.066062191	0.335753043
LAPTM5	0.521310321	0.170574911	0.538718846	-0.19545198
LBP	0.722401901	-0.820205473	0.334584156	1.06910909
LBR	0.197294633	1.140237733		

0.490819312	-0.120896676		
LCAT	0.740629352	0.785980634	
0.118913425	-0.955859472		
LCE3B	0.802795707	-1.517954086	0.66301205
LCLAT1	0.11427136	-1.387072372	0.336542778
0.628784941	-0.114295704		
LCN1	0.428254936	0.167742326	0.076727191
LCN12	0.751281006	0.206124593	0.290113757
0.050738765	-0.816415816		
LCN15	0.28866179	1.21699571	
0.1825092	-0.503792398		
LCN6	0.102752966	-3.118590342	0.019455778
LCN8	0.003627798	-2.452967337	0.634137958
LDLRAP1	0.667555512	0.124693352	0.280918764
LECT2	0.513108718	0.84140338	-0.56510183
0.001272013	-1.289987747	0.234341666	0.598235647
LEFTY2	0.229644412	-1.68422081	
0.592998823	-0.632060369		
LEP	0.404502077	1.215490759	0.113378101
LGMM	0.350481227	1.193218797	0.47481351
0.221678316	-0.319757213		
LHX2	0.089049194	-0.845177552	0.101441651
LHX5	0.635458399	-0.264865678	0.193949371
LIM2	0.210365496	0.646281551	0.639365011
0.284420665	-0.179652412		0.389086335
LIPC	0.026034979	-0.690363816	
0.320109663	-0.357333835		
LIPE	0.713637677	-1.052532575	0.662444984
LIPH	0.761384644	-0.723244883	0.329941756
LIPI	0.018644966	1.771770383	0.382406506
LIPK	0.40054831	-0.443519059	0.3775696
LITAF	0.06062045	-0.901778911	0.472896594
0.147342941	-1.025097151	0.183279845	0.146026228
LLGL1	0.274003097	0.586865756	
0.747132934	-0.372032377		
LMAN2	0.967267562	0.504074537	0.923098674
LMAN2L	0.934900969	0.267505801	0.177279065
LMF1	0.597505836	-1.688495403	0.7224019
0.133122723	-0.165834811		0.218614415
LMNA	0.218736876	-0.941096263	
0.967890697	-0.363108305		
LNPEP	0.41025411	2.133317881	
0.850890869	-0.245218064		
LNK1	0.729439669	-0.729654618	
0.470396101	-0.581540364		
LONP1	0.893363483	-6.210125017	
0.868696359	-3.632032406		
LONP2	0.242748248	-1.325913767	0.929929687
LONRF1	0.384539448	-0.641132584	0.10440578
0.792536488	-0.022062709		

LONRF2	0.429623277	-0.448386052	0.7212312	0.015050847
LONRF3	0.059337977	-1.542003178		
0.849665594	-0.129203504			
LPAR3	0.279723022	0.844425469	0.086844899	0.824623503
LPAR4	0.727091179	-1.622477482		
0.19892935	-0.141944094			
LPCAT3	0.397053419	-0.208042236		
0.228853128	-0.868296187			
LPCAT4	0.103082892	1.406487741	0.299450271	-0.62376474
LPHN1	0.537834151	-2.19306339		
0.624142058	-0.447109424			
LPIN1	0.902022666	-3.568764954		
0.890273941	-0.857430208			
LPIN3	0.045017758	-0.403398735		
0.190060002	-0.335921369			
LRIF1	0.421451381	-0.816019804	8.42E-07	-2.178303392
LRIT1	0.424618451	-1.498349437		
0.269570807	-0.497234551			
LRMP	0.073847754	-2.497931971		
0.151517143	-0.371354782			
LRP10	0.619934041	-0.702479999	0.193518571	0.432772513
LRP12	0.046717109	0.820262191	0.665282244	0.083676935
LRP3	0.374055459	-0.801492072		
0.411934703	-0.303091421			
LRP4	0.15407017	1.673049353	0.676678944	0.249106648
LRP8	0.006706415	-2.724624762	1.37E-06	-2.505494355
LRPAP1	0.639365012	-0.262265864	0.439272522	0.522320662
LRRC14	0.397925412	-0.452234997		
0.666986907	-0.231415271			
LRRC27	0.072776433	-1.353214133		
0.725917891	-0.236321846			
LRRC29	0.416054474	0.483077703		
0.613331721	-0.826126142			
LRRC34	0.860705791	0.335212819		
0.340886361	-0.676500441			
LRRC45	0.471839167	-1.27451323		
0.208945904	-1.378906813			
LRRC48	0.397053419	0.472871898		
0.900784901	-0.046073146			
LRRC59	0.40011044	0.377874695	0.077511693	0.019909105
LRRC8A	0.105413877	-4.822745039		
0.024748603	-1.838296005			
LRSAM1	0.013351707	-2.123355441	0.177432873	0.213717125
LSM14B	0.656220085	0.261104708	0.341282757	0.302431817
LTBP4	0.010296832	-2.335106689	0.045017757	0.45117208
LTN1	0.905118113	-0.603385754		
0.436502969	-0.814234857			
LUC7L3	0.144374512	-0.535551134		
0.319539329	-1.880321081			
LY75	0.942984634	0.35401086		

0.137829256	-0.658867966		
LYPLA1	0.39401053	0.805575894	0.76973603
LYPLA2	0.119005904	0.390866687	0.411562125
0.248469111	-0.353368086		
LYSMD1	0.642161595	-0.66803036	0.152944087
LYSMD3	0.450920368	-0.730119519	0.604401494
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LYST	0.416054474	-0.912175806	
0.923098674	-0.235949229		
LYZL2	0.231585852	0.587466665	
0.692182288	-0.195518901		
LZTFL1	0.87916571	0.861182435	0.05524479
MAF1	0.796153389	-0.38130482	0.152944087
MAG	0.395747592	-0.475622182	0.153844449
MAGEA11	0.356768036	-0.411496766	1.17981456
0.062901504	-1.224160676		
MAGT1	0.951696668	0.464683406	
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MAL	0.053012917	-1.486342779	0.365260612
MAL2	0.457045682	-1.28735474	0.506397611
0.400110438	-1.065789024		
MAMDC4	0.721231202	-2.489892063	0.037283006
MAN1A2	0.738268973	-0.060743968	0.665360518
0.965398278	-0.243424024		
MAN2B1	0.044850726	0.961599524	
0.911933107	-0.165247783		
MAN2C1	0.023341793	1.076329618	
0.521105815	-0.397026408		
MANBA	0.263849332	0.242967575	0.541820923
MANF	0.322206581	0.904232126	0.300117691
0.074921843	-0.758605853		
MAP1LC3B	0.173201305	-1.301692074	
0.453741643	-0.340799851		
MAP1LC3C	0.000145217	2.308084435	0.004725121
MAP4	0.165447001	0.902677516	-0.94644807
0.050590432	-0.442534243		
MAPK1IP1L	0.711306862	-0.108495117	
0.170991825	-0.351547835		
MAPT	0.072403102	-1.455831362	0.083327016
1-Mar	0.433284578	1.214762716	0.734579383
0.072155085	-0.240513394		
10-Mar	0.407593308	-1.359474248	
0.091338478	-1.476260553		
11-Mar	0.391413607	0.487419982	
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2-Mar	0.087589784	-0.993318944	
0.151824278	-0.145644218		
3-Mar	0.682979048	-0.984697232	
0.320680662	-0.935035584		
4-Mar	0.912552982	0.658756766	

0.342473715	-0.269883764		
5-Mar 0.227044116	-0.548723084	0.583208725	0.217447981
6-Mar 0.684701121	-0.395410562		
0.328744491	-0.661860646		
7-Mar 0.10341366	-0.856264036		
0.632117923	-0.075515314		
8-Mar 0.027155492	1.798787384	0.141389677	0.425807925
9-Mar 0.06457882	-3.205924564		
0.788924047	-0.215216053		
MASP1 0.221974013	0.949368691		
0.839265704	-0.266948594		
MATN2 0.469435415	1.992696604		
0.425980011	-0.289743733		
MBD6 0.889038588	0.482512011		
0.126394342	-1.852669517		
MBLAC1 0.055843336	-0.835445615	0.12581361	-0.69893421
MBNL2 0.473284669	-0.358025054	0.060936434	0.850859152
MBOAT2 0.121995035	1.070770289	0.58831575	-0.24709972
MBTPS1 0.910693521	0.403198802	0.450451121	0.248646186
MBTPS2 0.152719625	0.278553436	0.168078778	0.101893015
MCOLN1 0.841098996	-3.220636343		
0.94485096	-0.070765634		
MDGA1 0.844156391	-2.080170137		
0.641042349	-0.008870178		
MEFV 0.45799217	-2.771423635	0.559565962	0.265755804
MEI1 0.000928394	-1.403578132	0.910073808	0.095727879
MEIS1 0.483959096	0.283347512		
0.82280647	-0.124401165		
MEOX1 0.569073189	0.265653534		
0.242748246	-0.429049386		
MEP1A 0.751281006	-0.39919761		
0.462741064	-0.906969295		
MEP1B 0.337725816	0.607882992	0.928687285	0.181922186
MESDC2 0.070195912	-1.306392603		
0.126782655	-0.721396393		
METAP1D 0.006996472	1.539370513		
0.529978264	-0.160798933		
METRNL 0.46083822	0.074817858	0.966644446	-0.08593316
METTL1 0.660178657	-3.002949546		
0.524870616	-0.282924388		
METTL21B 0.920616049	-2.209886364	0.506694058	0.355041989
METTL6 0.474491111	-0.065795368	0.483959094	0.454303707
MEX3A 0.904498906	0.457852576		
0.982850945	-0.281942111		
MEX3B 0.788924048	-0.548533039		
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MEX3C 0.632117925	0.54364899		
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MEX3D 0.316508785	0.273328183		
0.896454644	-0.011899119		

MFGE8	0.584013726	0.829611973		
	0.664714407	-0.075270214		
MFSD11	0.647064116	0.321655555	0.174011721	0.321443478
MFSD7	0.17939061	0.840726096	0.190270168	0.153846435
MFSD8	0.847828364	0.352487003	0.753654571	0.156662123
MGAT2	0.791934104	-0.032660268		
	0.217859933	-0.068044555		
MGAT4B	0.643841988	1.091824326		
	0.043533197	-0.736646185		
MGLL	0.812482622	-0.667518812		
	0.406708664	-0.515910492		
MGP	0.36395087	-2.351964228		
	0.928687285	-0.142483693		
MGRN1	0.49229613	0.57483222		
	0.657350126	-0.223493282		
MIB1	0.460363192	-0.639306044		
	0.178187546	-1.517015733		
MIB2	0.599677656	-0.403681055		
	0.578656882	-0.578523613		
MID1	0.066450024	-1.030820487	0.262945005	0.207279376
MID2	0.595879322	-0.84560116		
	0.528443322	-0.344920236		
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	0.413817855	-0.076879046		
MIOS	0.498876687	0.382936715		
	0.04624449	-2.698603842		
MIPEP	0.240548674	-2.284041673	0.327198474	0.258781484
MITD1	0.284420667	0.726610551		
	0.023145518	-0.924038979		
MKKS	0.426167101	1.173897529		
	0.432422486	-0.126126412		
MKRN1	0.596421269	-0.161027578	0.412033697	0.136855898
MKRN2	0.702590474	0.276121284	0.979733555	0.227655829
MKRN3	0.699693613	0.093035924	0.162599835	0.111793606
MLEC	0.272095333	-2.230958114		
	0.248041289	-0.372345034		
MLST8	0.161192952	-0.263385833		
	0.689301311	-0.178823059		
MLX	0.374367692	-2.641123077		
	0.123892841	-0.686998248		
MLYCD	0.960414479	0.113035502		
	0.21179205	-0.719488497		
MMD	0.71713891	-0.316231501		
	0.889038588	-0.258126257		
MMEL1	0.931793608	0.027764805	0.825240147	0.036276749
MMP23B	0.22315962	-1.367045405		
	0.158868604	-0.943994245		
MNDA	0.767629791	0.262150144		
	0.727051909	-0.482210689		
MOCS1	0.505194423	0.44062718	0.884716993	-0.30006791

MOGAT1	0.026510208	1.724113313		
	0.280918764	-0.645325468		
MOGAT3	0.731202706	0.398783529	0.263515401	0.371215275
MOGS	0.820070622	-0.402558139		
	0.825240147	-0.532611322		
MON1A	0.647208233	-0.871609834	0.23189091	0.40363538
MON2	0.034389069	-2.817775716	0.715971166	0.069701169
MORF4L1	0.573855558	-0.381164283		
	0.131115621	-0.793614678		
MORF4L2	0.228248989	-3.345673944		
	0.020932576	-0.685854225		
MOSPD2	0.848440683	-0.519765324	0.147298253	0.487818486
MOXD1	0.187954408	-0.507157257	0.917513857	0.178971937
MPDU1	0.452800114	0.704016521	0.782781735	0.262360103
MPLKIP	0.200299162	1.844114424		
	0.018345667	-0.644502518		
MPND	0.715387545	0.690117262		
	0.923098674	-0.175450028		
MPV17	0.124764814	1.111535684	0.133122723	0.777201323
MRC1	0.887186065	0.682383664		
	0.033729041	-0.578577444		
MRM1	0.959168763	-1.085735441		
	0.744174496	-0.371659789		
MROH7	0.000382148	2.134368596	0.589393541	0.199967153
MROH8	0.982850946	0.211669142		
	0.298541088	-0.452416225		
MRPL51	0.97534323	0.268348237		
	0.063615073	-1.784941939		
MRPL54	0.670971135	-0.166396108		
	0.108477102	-0.123616164		
MRPS18B	0.929308465	0.466360051		
	0.041540076	-2.346779171		
MRPS28	0.178691989	-1.383304001	0.183022695	-0.51077767
MRVI1	0.689652881	0.178600672		
	0.397271306	-0.973701898		
MSH4	0.931172259	-2.61872603		
	0.278831733	-0.373418837		
MSL3	0.297633754	0.454399781		
	0.311250857	-0.774474154		
MSR1	0.519639455	0.693346575		
	0.13492631	-0.339585992		
MSRB3	0.008722137	-1.169213432		
	0.05328813	-0.768566932		
MSTN	0.667025594	-1.362454095		
	0.035397883	-2.535235569		
MST01	0.78025051	-2.656309585		
	0.060388592	-0.438016291		
MT1E	0.059337977	-1.471511978	0.647208231	-1.01469736
MT3	0.02905791	-2.154663775		
	0.55484142	-0.028799276		

MTCH2	0.728852307	-1.095838691	0.414264608	0.105571255
MUC16	0.828284604	0.375009311	0.991580881	0.258815787
MUC20	0.193518573	-0.35674312		
	0.319539329	-0.669287186		
MUL1	0.331461398	-0.438591379	0.527932178	0.245548668
MVD	0.002227267	-5.901783905		
	0.003183108	-6.279277656		
MYH10	0.974746393	-0.214321594	0.490327569	0.061102968
MYH2	0.01584358	1.165915202		
	0.285631258	-0.214403343		
MYH3	0.48542475	0.375736545		
	0.543893915	-0.482254357		
MYH4	0.525722572	0.532840685		
	0.162205788	-0.354361099		
MYH7B	0.583477004	-1.307191979	0.704330668	0.010070035
MYL12B	0.46799642	-0.591998989	0.185866074	0.626969603
MYL6	0.317643022	0.568864179	2.86E-05	-2.177744202
MYLIP	0.493281996	0.088357039		
	0.490327569	-0.019643938		
MY010	0.55693881	0.529821673		
	0.033663638	-1.184855359		
MY018A	0.342076436	-5.128930703		
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MY01C	0.068755355	-0.782878394		
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NAAA	0.470876853	0.469699818		
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NAALAD2	0.994699014	-0.204176684		
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NANOG	0.669831834	-0.633359214		
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NDP	0.995946292	-2.857008026	0.556414099	0.222161689
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	0.586700775	-0.088877777		
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NEUROD1	0.494762776	-0.50045915		
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NEUROG1	0.862548534	0.183499538		
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NEUROG2	0.204171238	0.611159176		
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NFATC2IP	0.440197946	2.216102295		
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NFU1	0.104577996	-0.064752661		
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NFX1	0.887186065	-0.532433751		
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NR1D1	0.145884926	-2.27552956	0.834381216	-0.31602853
NR2C1	0.808846579	-2.39287787		
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NR5A2	0.468475813	-0.877505925	0.409809926	0.431037446
NRD1	0.147189167	1.825042826		
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NRIP2	0.00594237	-2.165701243		
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NTF3	0.072776433	-1.563833401	0.292228458	0.655135382
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NUP35	0.009109787	-5.2410597		
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OAF	0.295463671	0.321595987	0.703170365
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OASL	0.192182924	-1.169288274	0.642721522
OGN	0.046561604	-4.18927114	0.033860936
OGT	0.341679451	-1.131104811	
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OLA1	0.432367565	0.78700111	
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OLFM1	0.800378643	-0.9619172	0.757813905
OLR1	0.931355738	-0.284741485	
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OMA1	0.875468135	0.047127014	
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OPA1	0.738268973	-0.229667448	
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OR2A1	0.65537642	-0.342222429	0.264611262
OR2A42	0.629986081	-0.282064235	0.644106004
OR51S1	0.890891718	0.83158034	
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OR5J2	0.290798255	-0.260068904	
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ORC3	0.763767967	-0.646595296	0.532541525
ORMDL2	0.140967173	-2.979233725	
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ORMDL3	0.383258812	-3.776160925	
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OS9	0.95231919	1.458572748	0.931793608
OSBP	0.086006785	-1.643008059	
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OSBPL11	0.202505159	0.369231144	0.600764902
OSBPL3	0.929308465	0.963210338	
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OSBPL5	0.003079991	-3.766163102	
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OSGEP	0.516751129	-0.553526233		
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OSTC	0.763171925	0.698030583		
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OSTM1	0.126394344	0.556432934		
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OTUB1	0.135357918	1.146547901		
	0.181485414	-0.746013119		
OTUB2	0.477151223	1.124747485	0.521310319	0.421567715
OTUD1	0.430994154	0.480843438	0.291870464	0.020486776
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OTUD5	0.82159027	0.074729143		
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OTUD6B	0.643841988	0.208670012		
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OTUD7B	0.22315962	1.620004144		
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OTX2	0.164846319	-1.677579856		
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OVCH1	0.276410227	-0.822049605	0.300543725	0.531961618
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OVOL1	0.297271336	-1.280242163		
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OXNAD1	0.193786519	0.572113144	0.799170824	0.128422527
P2RX1	0.013380949	-3.572117275		
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P2RX4	0.169773495	-1.524044046	0.302005799	-0.28219192
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PAFAH2	0.804004948	-0.133514815	0.415606578	0.20462173
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PARP10	0.648894071	-0.435872682	0.732967162	0.168102663
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PAX6	0.168511508	1.025280204		
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PCGF2	0.062790977	2.253590264		
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PCGF3	0.168320102	1.17351526	0.016964007	0.857634395
PCGF6	0.251364639	-0.456934187	0.31802169	0.574863308
PCL0	0.041618292	-1.577171974	0.321443029	0.276262853
PCOLCE	0.957923147	0.110303057	0.164608751	0.502865952
PCSK1N	0.816122712	0.692801862		
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PCSK5	0.727091179	0.66252493		
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PDCD11	5.64E-05	-10.06836572	0.000834548	-6.725213053
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PDZRN4	0.311998443	0.272552108		
	0.934279416	-0.599706062		
PEBP1	0.730614868	-0.655830336	0.245279316	0.293815434
PEG10	0.306420379	-0.47168806		
	0.885334157	-0.095519477		
PELI1	0.677822753	-1.839623569		
	0.055843335	-1.852327673		
PELI2	0.384112279	0.263587108		
	0.440661074	-0.498725983		
PELI3	0.362301158	-0.271900264		
	0.573323243	-0.238313832		
PEPD	0.985345049	-0.758831382		
	0.064127966	-0.669317652		
PER2	0.059337977	-1.151655896		
	0.524870616	-0.632559826		
PEX10	0.106428673	1.339968821	0.095704852	0.151685917
PEX11G	0.627675622	0.229409973		
	0.844768153	-0.381388806		
PEX12	0.92558205	0.095319582		
	0.923719449	-0.063987195		
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PGA4	0.697957588	-2.71471587		
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PGA5	0.1840529	-2.71471587		
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PGAM5	0.768541314	-1.212454088		
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PGAP3	0.928687286	0.105679197		
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	0.935522562	-0.182744552		
PGM3	0.394878483	1.747212223	0.605122774	0.264986356
PGM5	0.718406973	-0.17128095		
	0.013676496	-2.895624765		
PGPEP1	0.396182579	-0.092915445		
	0.991580881	-0.473209509		
PHB2	0.000458922	-6.065487367		

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PHEX	0.892745444	-0.394596324	
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PHF14	0.26720468	-2.72464904	
0.774563797	-0.057970102		
PHF17	0.578351304	-1.515424671	0.014866094
PHF21A	0.090230772	1.485494694	-0.72613966
0.080715285	-0.163585611		
PHF7	0.848440683	0.798408095	0.78051277
PHLDA1	0.784681667	-0.279370612	0.335731256
PHRF1	0.546490692	-2.189111009	0.370962469
0.7224019	-0.204589722		-0.38795057
PHTF1	0.650879843	0.299312871	
0.105238659	-0.674227197		
PIAS1	0.898310098	-0.244662209	
0.842933148	-0.091175682		
PIAS2	0.811876331	-3.241433386	0.241803846
PIAS3	0.388827101	-0.510471304	0.216914748
PIAS4	0.908215002	0.295271239	0.664714407
PIGK	0.890849205	-0.46238097	0.556684604
PIGU	0.728265105	-0.904676273	0.837433285
PIGW	0.414711649	0.511070717	0.140265225
0.711306861	-1.778665242		0.81588779
PIK3IP1	0.834991433	-0.748595019	0.113690674
PIN4	0.367264359	0.880446339	0.682979047
PITPNB	0.31349716	0.629630631	0.329371075
0.161660887	-0.473954435		
PITPNC1	0.665282245	-0.835796735	
PITRM1	0.116984394	1.781252828	0.994699014
0.714804088	-0.859819272		0.039441064
PJA1	0.291381301	-2.971506959	0.471839165
0.031196176	-1.049566333		-0.78762085
PJA2	0.124764814	0.93589389	
0.011014152	-0.951575349		
PKD1L2	0.6517078	-0.212954932	
PLA2G15	0.48054859	0.518170143	0.495256895
PLA2G2C	0.241175686	-0.701473268	0.287627083
PLA2G3	0.57598715	-0.88319363	0.63239601
0.929308464	-0.805030837		0.331608751
PLA2G4D	0.014315977	-1.201263802	0.075305754
PLA2G4E	0.384539448	-0.552914064	0.630705488
PLA2G4F	0.823414731	-1.808056035	
PLA2R1	0.895217988	-0.560891281	0.704330668
0.048648424	-0.691418552		0.535111046
PLAA	0.858863806	0.144754484	0.472320729
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PLB1	0.216403988	-0.839232878	
PLBD2	0.798567097	-0.167890489	0.287627083
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PLCD3	0.72181647	-0.271354622	0.233226706

0.16953061	-0.956139419		
PLCD4	0.106090269	0.37213677	
0.843850545	-0.114943694		
PLCH1	0.057330342	-1.220674218	0.07380295
PLCL2	0.260050024	-0.089783647	0.651707798
PLCXD2	0.64043096	-0.502832505	0.367054855
PLCXD3	0.243379287	0.802491768	0.260854464
PLD3	0.040103947	-2.296682672	0.685897923
0.650027812	-0.469629822		0.165970822
PLD4	0.787119522	-0.329699534	0.23366691
0.219910068	-0.887242893		0.582131552
PLEKHF1	0.354935556	0.444465079	
0.939252931	-0.350432557		
PLEKHF2	0.149896354	1.066224307	
0.114955713	-0.987394129		
PLIN2	0.451859689	-0.519355697	
0.668124306	-0.344970113		
PLXNA2	0.468016312	0.324573189	
0.853202766	-0.201515041		
PLXNB2	0.131115623	-2.720621919	0.5947961
PM20D1	0.858863806	-0.98194747	-0.96565252
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PM20D2	0.864392025	-0.404860745	0.131115621
PMPCA	0.929929687	-0.406216426	-0.776306
PMPCB	0.462741066	-1.346631844	0.748317356
PNKD	0.504195965	-1.382101682	0.266241381
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PNLIPRP3	0.972023225	-0.115392377	
PNPLA1	0.189005044	1.915724705	0.101023019
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PNPLA5	0.708397137	-1.066158425	
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PNPLA6	0.098221639	0.620859179	0.327198474
PNPLA7	0.066111898	1.669901552	0.21918621
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POC1A	0.943606709	0.374083128	
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POC1B	0.543375299	-0.361524532	0.143303003
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POFUT2	0.005334347	1.487465671	0.082095383
POP1	0.000287434	-8.685603623	0.76119399
PPIAL4A	0.660744948	-0.267811198	0.988462877
PPIAL4B	0.761980263	-0.248263726	0.242432947
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PPIAL4C	0.653398424	-0.371097107	0.809452301
PPIAL4D	0.07309635	0.450508159	-0.28618895
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PPIAL4E	0.864392025	-2.354225996	0.888421012
PPIAL4F	0.433284578	-2.419107873	0.097941525
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		0.114989944	0.128598167

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PPIL1	0.164727504	-1.099103089	0.679539855	-2.15583898
PPIL2	0.572791165	-2.886552152		
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PPIL3	0.689301312	0.788314054		
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PPIL4	0.073276658	1.56596782		
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PPIL6	0.51624583	-1.078117287		
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PPP6R1	0.315377208	0.414089168	0.147625888	0.490538309
PPT2	0.175637941	0.635209659		
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PPWD1	0.860705791	0.167276488		
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PQLC2	0.20668902	0.336877025		
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PRAF2	0.169530612	1.292974437	0.158868604	-0.77267182
PRCP	0.237741334	-1.357912211		
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PRDX1	0.203892868	-0.475938883	8.45E-05	-2.204481642
PRDX4	0.461789096	1.272330202		
0.827675504	-0.138904212			
PREB	0.232196258	-1.880115962		
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PREPL	0.180159857	1.252240855	0.035039792	0.577123834
PRG3	0.262848419	1.010633435		
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PRICKLE3	0.007735493	-1.627355734	0.593172958	0.159569155
PROCA1	0.840487802	1.435988441		
0.598591298	-0.513365444			
PRPF3	7.71E-05	-8.37241036	0.000105295	-4.951104925
PRPF31	0.138660722	0.615235271		
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PRPF4	0.149728416	-1.068365453		
0.00472955	-2.575431437			
PRPF8	0.000110486	-9.18601846	1.37E-05	-7.095636247
PRR11	0.350481227	-0.662962086	0.836212161	0.261282179
PRR18	0.177181847	1.279566479		
0.039926087	-0.172022638			
PRRC1	0.817944251	-0.003806106	0.267879253	0.565792298
PRSS12	0.357788651	0.264995943		
0.233420491	-1.281648711			
PRSS16	0.026139944	1.363257716	0.480062445	-0.57708691
PRSS21	0.379008927	0.226712831		
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PRSS22	0.343667329	-0.592556718		

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PRSS23	0.302372058	-0.347902614	
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PRSS27	0.611137865	-1.251667594	0.613331721
PRSS33	0.299450273	1.10784075	0.396182577
PRSS35	0.500212569	-0.404410121	0.616353934
PRSS36	0.005373063	-1.358594112	0.210650248
PRSS37	0.333855273	-0.309468955	0.557498112
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PRSS38	0.000788766	-2.099320006	0.203160799
0.667555511	-0.138410236		0.528301276
PRSS42	0.801586937	1.609296553	0.137208184
PRSS45	0.834381217	-1.574008633	-0.72371003
PRSS48	0.512212684	-1.334415001	0.767944161
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PRSS50	0.064015661	-0.357194284	
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PRSS53	0.256898007	-2.198911777	0.0419324
PRSS54	0.647769978	0.413125449	0.094162413
PRSS55	0.486403187	0.513431532	0.269231911
0.703170365	-0.209997053		0.140647602
PRSS57	0.031875898	2.268598126	
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PRSS58	0.06180343	0.599018322	0.22554441
PRTG	0.923719449	-0.415512759	-0.23747144
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PRTN3	0.600221168	1.416544611	0.699693611
PSEN2	0.498723111	2.128849904	0.114931296
PSMA8	0.643281654	-4.476021816	0.612782931
PSMB10	0.145236131	0.227685779	0.280221912
PSMB11	0.404942821	-1.598601501	0.312736066
PSMB8	0.06733918	-1.735161327	0.666986907
0.528443322	-0.354884753		0.057834391
PSMB9	0.474732603	-0.775995984	0.035060099
PSMC3IP	0.696801115	-0.425996313	0.618523157
0.17568123	-0.436970694		
PSMC4	0.178944607	-9.852791962	
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PSMC6	0.587238873	-0.383229778	0.50569404
0.202228444	-2.129690865		0.210178645
PSMD10	0.624352716	0.22947941	
PSMD5	0.364777485	-1.181061603	0.350078052
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PSMD6	0.086006785	0.291967064	
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PSMD9	0.709560519	-0.282327693	0.230368459
PSME1	0.201399958	-0.568187313	0.079534045
PSME2	0.316131297	1.215374404	0.440661074
PSME3	0.156341221	-1.669502499	0.831941354
0.131915628	-1.852610928		0.515442644
			0.159564719

PSME4	0.560618507	-0.624035993		
	0.547531118	-0.271482171		
PSMF1	0.003485295	0.676453038	0.664714407	0.099348024
PTGES3	0.111081369	-0.550449809		
	0.564309937	-0.430048087		
PTRF	0.889656231	-0.048481753	0.069113195	0.35465712
PWP2	0.000194823	-9.351656899	6.62E-07	-9.371322555
PXMP4	0.116984394	-1.690500568		
	0.497731448	-0.326388021		
PYDC1	0.585087859	-0.099626061		
	0.377739636	-0.579552456		
PYG01	0.663579311	0.74869431	0.702590473	0.185532295
PYG02	0.884099899	-0.783568825		
	0.140125073	-1.025996534		
QPCTL	0.726504455	-0.643397841		
	0.616078918	-0.358735301		
QS0X1	0.344264622	-0.363310234	0.487954095	-0.56505579
R3HDM1	0.094465964	1.597163955	0.417805999	0.428861818
RAB10	0.739448856	-0.404466347		
	0.665282244	-0.355644309		
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	0.067690953	-0.372428629		
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RAB12	0.392710767	1.458574618		
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RAB14	0.244328006	0.528896416	0.578122471	-0.11631775
RAB18	0.215823574	-3.746579897		
	0.075177606	-0.309902683		
RAB1A	0.318400659	0.665739758		
	0.059127501	-0.264724085		
RAB23	0.475699242	0.112219007		
	0.681831914	-0.809948312		
RAB24	0.152719625	-0.822138264		
	0.488363252	-0.461623246		
RAB30	0.091876007	0.437466588	0.811410597	0.210436592
RAB32	0.16212985	1.238533118		
	0.10744902	-0.421321786		
RAB35	0.08003915	-0.696188019		
	0.000736907	-2.031287887		
RAB37	0.124275154	1.704476218	0.17481026	0.638620528
RAB3C	0.860705791	0.429613333	0.051858917	0.880764978
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	0.145236129	-0.451897983		
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	0.724745248	-0.205263547		
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RAB40AL	0.02505585	-0.373683246		
	0.160492966	-0.442046416		

RAB40B	0.080715286	0.357508132		
	0.181996773	-0.671200462		
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RAB42	0.187954408	-0.112465936		
	0.048648424	-0.807580412		
RAB43	0.363538002	1.62581908		
	0.0216744	-1.087198734		
RABAC1	0.688725656	-0.533962965		
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	0.092480216	-0.232844242		
RABIF	0.369344804	1.489471395		
	0.137311546	-0.222018527		
RABL3	0.986592156	0.266277061	0.07950156	0.477199536
RAG1	0.177432875	1.469453198	0.999064525	0.497798441
RAI1	0.356972012	-0.338426719		
	0.291870464	-0.359960358		
RALB	0.472504566	0.416028117		
	0.72091415	-0.508426256		
RALYL	0.167318647	0.261174872	0.042475893	0.723519275
RANBP10	0.158406796	-1.506024803	0.113734742	0.289797424
RANBP2	0.127366866	-1.404486668	0.349272588	1.039320378
RAPGEF4	0.501704383	0.391247055	0.735911058	-0.19955181
RAPSN	0.705491661	-0.165838906	0.440197944	0.200813754
RASA4	0.428566748	-1.246168867	0.957923147	0.597500491
RBBP6	0.68527551	-0.352597744		
	0.065032285	-0.190971181		
RBCK1	0.886568693	-0.639597405		
	0.276410225	-0.734503794		
RBM24	0.976616473	-0.610328576		
	0.927445058	-0.233525279		
RBM34	0.641601871	0.19363831		
	0.221974011	-1.728807893		
RBM7	0.119933777	-0.609784589	0.186777596	0.446337831
RBP7	0.299086379	-0.442591215	0.779912934	0.167343808
RC3H1	0.864392025	-0.160360781		
	0.291512766	-0.094870345		
RC3H2	0.023291581	1.449368794		
	0.562199115	-0.582516281		
RCE1	0.650018964	-1.313014016		
	0.138244507	-0.660918927		
RCL1	0.348468303	-5.67329868		
	0.001838303	-3.999483732		
RDH10	0.968513851	-0.784989054		
	0.458939754	-0.577315105		
REST	0.03756913	2.013813249		
	0.311624501	-0.319116103		
RFFL	0.689877149	1.092439866		
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RFPL1	0.985345049	-0.388414266	0.189531981	0.052914423

RFPL2	0.276755276	-2.333939035	0.670926735	0.163808195
RFPL3	0.714220799	0.247779957		
0.599134364	-0.395464801			
RFPL4A	0.542856928	0.175856211	0.360245614	0.219884733
RFPL4B	0.414711649	-0.697187356		
0.353920081	-0.589548861			
RFWD2	0.915653142	0.508741894	0.814908902	0.022136718
RFWD3	0.773323453	0.173590079		
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RGL4	0.700004248	0.393363435		
0.375385892	-0.183112233			
RGN	0.157486226	1.252714192		
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RGS19	0.341282759	1.36703305	0.004853472	-0.38858704
RHAG	0.963529184	1.22002553	0.716554954	0.131568088
RHOBTB1	0.460363192	1.29041329	0.728265104	-0.38920236
RHOBTB2	0.450451123	1.787793118	0.900784901	0.230916073
RHOBTB3	0.497236013	0.387510533	0.357788649	0.244590286
RHOQ	0.216089186	0.617421217		
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RHPN1	0.462264944	0.354185529		
0.669262467	-0.107102243			
RIC8A	0.793138998	-0.403469331		
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RILP	0.638806309	0.26178781		
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RIMBP2	0.72415917	0.808200652		
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RIMS1	0.519788293	-0.263722986	0.343269162	0.192013036
RING1	0.545451245	0.093404376		
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RLIM	0.592998825	-0.5969835		
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RNASEK	0.862586538	-0.599134589	0.398908951	-0.89117281
RNF10	0.514731473	-2.775830236		
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RNF103	0.962283233	0.170545238		
0.01456644	-0.351884709			
RNF11	0.36892813	-1.16022142		
0.507695114	-0.383789671			
RNF111	0.577588293	-0.09206706	0.063791534	0.261950703
RNF112	0.804004948	-0.436745787		
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RNF114	0.523249163	1.506871528	0.056227861	1.19647394
RNF115	0.473767043	0.687600246	0.852116504	-0.27569065
RNF121	0.708978743	-2.045039826		
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RNF122	0.794947265	0.656149657	0.463694128	0.004943478
RNF123	0.75484223	0.188644542		
0.379432604	-0.788071437			
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SRP19	0.915033006	0.374849204		
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SYVN1	0.230064826	0.57273444	
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TECRL	0.19438802	-1.508943164	0.461313519
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TMEM208	0.500212569	0.666929615	0.399235563
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TMPRSS11B	0.783513907	-0.744323758	
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TMPRSS7 0.727678062	-0.280295053	0.742992174	0.235660789
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	0.25168781	-0.986663136		
UNC13D	0.131515154	-1.469609154		
	0.158637572	-0.841830412		
UNC45A	0.306790181	-2.8300353		
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UNC45B	0.411143333	-0.643901121	0.208662821	0.880435978

UNC50	0.626567143	-0.849112414	0.066062191	-3.12677679
UNK	0.679539857	-0.103452704		
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UNKL	0.861934203	-1.877879399		
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UPK1A	0.258870999	-0.503462356	0.160260149	0.290102337
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URM1	0.550658267	0.971542271		
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USE1	0.313122038	-1.461151662		
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US01	0.913792889	0.544531508	0.577588291	0.163026646
USP10	0.68527551	-0.231567194		
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USP11	0.80581969	-0.347302095		
0.62324677	-0.519626342			
USP12	0.098539921	2.270290487	0.193518571	0.088773939
USP13	0.909443931	0.798406336		
0.647656409	-0.141900828			
USP14	0.492788931	-1.583530404		
0.11753302	-2.174159754			
USP15	0.224649571	-1.713311549		
0.746595708	-0.238006922			
USP17L2	0.745357422	-0.655676794		
0.384539446	-0.144566157			
USP17L24	0.414711649	-1.25985889	0.850890869	0.405284721
USP17L25	0.742992175	-0.470752121	0.608947492	0.405284721
USP17L26	0.009298722	-1.331605083	0.194591988	0.672520783
USP17L27	0.014661356	-1.488963685	0.551702597	0.405284721
USP17L28	0.51624583	0.361307796	0.445307711	0.672520783
USP17L29	0.178691989	-1.25985889	0.834991432	0.644744003
USP17L3	0.361889463	0.130922962	0.896454644	0.255741971
USP17L30	0.093239962	-1.488963685	0.443910795	0.672520783
USP17L4	0.827066509	0.202181422	0.591551848	0.319525773
USP17L5	0.032695537	-1.331605083	0.916893568	0.405284721
USP17L7	0.945473137	0.161635017		
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USP17L8	0.566424568	-0.295557602		
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USP18	0.367679863	0.223289841	0.394010528	-0.23408231
USP19	0.959168763	-0.815912507		
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USP20	0.48200863	-0.876360816		
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USP21	0.668124307	0.527798151		
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USP22	0.020158035	-1.484438116	0.23067238	0.274726245
USP24	0.187430708	-1.331559756		
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USP25	0.425980013	1.795368373	0.141389677	-0.65185398
USP26	0.060292822	-3.536582342		
0.072624587	-1.046864687			
USP27X	0.152944089	-0.494823388	0.710142463	0.00976406
USP28	0.549093595	-0.105121673		
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USP29	0.523343253	-0.522280443		
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USP3	0.346462741	0.423521825	0.143089435	1.029960932
USP30	0.866851161	-0.234578138		
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USP31	0.120399833	-1.837122829		
0.177684166	-1.271761532			
USP32	0.289741764	0.071940219		
0.261973091	-0.263024469			
USP33	0.93857347	0.641337293	0.465493226	0.025387923
USP34	0.443445715	-0.558593501		
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USP35	0.434662206	-1.027863194	0.967579127	-0.13148028
USP36	0.596421269	0.121334129	0.764364148	0.250665905
USP37	0.055145555	2.049711562		
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USP38	0.853955627	0.02877618		
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USP39	0.03314431	-4.216890276		
0.023335448	-4.196125987			
USP4	0.172954759	0.682549173	0.665282244	0.194933257
USP40	0.471839167	0.253825418		
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USP41	0.198656213	-0.68715628		
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USP43	0.233179261	0.253823936	0.458968717	0.501397581
USP44	0.081397238	1.376850879		
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USP45	0.471357875	-0.753837168		
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USP46	0.587238873	-2.341367195		
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USP47	0.387038423	0.687328642		
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USP48	0.828284604	-2.446699939	0.737679262	0.171447891
USP49	0.035536445	-1.269587053	0.05685291	0.535862225
USP5	0.828284604	-0.496653245	0.59587932	0.631405317
USP50	0.921236634	-0.582104131	0.855182149	0.102761554
USP51	0.831941355	-0.708383339	0.018973025	1.450698736
USP53	0.763209622	0.277493249	0.376719247	0.178942973
USP54	0.622694118	0.326419079	0.519788291	0.12164173
USP8	0.389257462	-0.634387172		
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USP9X	0.811876331	0.303650265		

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USP9Y	0.386679648	0.774148636	0.194054735
USPL1	0.201675845	-1.505257036	0.757115669
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UVRAG	0.844768154	-0.489903924	
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VAC14	0.180866129	1.625525673	0.247366994
VAMP4	0.416951114	0.521947829	-0.33388958
VAMP5	0.652271143	0.039768328	0.958545942
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VAT1	0.671541069	-0.358760515	
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VAV3	0.017811702	-2.278801839	0.482983326
VBP1	0.452800114	-4.68911909	0.08270779
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VCPIP1	0.419197696	0.076746239	0.013587232
VCX	0.372688722	-1.083240298	0.559972313
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VCX3B	0.248789681	-1.417588479	0.103911392
VIMP	0.408922421	-0.739634934	0.096596427
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VPREB3	0.671541069	0.08745768	0.464648284
VPS11	0.538202702	-3.640646114	0.264725038
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VPS13A	0.706653339	0.850075418	0.623799636
VPS13C	0.663579311	0.29270124	-0.28398234
VPS13D	0.716554956	-1.117648286	0.160492966
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VPS16	0.908834549	-0.050249134	
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VPS18	0.22375412	1.458935845	0.979110112
VPS25	0.130717032	0.468864818	0.151825065
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VPS29	0.396182579	0.081637886	0.679539855
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VPS33A	0.590472242	-0.654548098	0.235764454
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VPS33B	0.143516816	0.43189679	
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VPS35	0.665850275	1.851702215	0.290441439
VPS36	0.84599196	-1.839199884	0.030583998
VPS37A	0.947962171	0.231008809	0.810058138
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VPS39	0.379008927	-0.83389425	
VPS41	0.966021352	-0.40903509	0.21293832
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VPS45	0.333020415	1.061363976	
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VPS4A	0.149162221	-3.115857399	

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VPS4B	0.816729781	0.127562312	
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VPS53	0.794947265	-0.88384986	0.802795706
VPS54	0.607853619	0.293489543	0.400779842
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VPS8	0.981603955	-1.030860231	0.50569404
VSX2	0.189795858	0.999275687	-0.58102419
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VTI1A	0.018992929	-2.077898258	0.177181845
VTI1B	0.211506183	1.326721534	0.828136974
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WBP11	0.308272345	1.302315112	
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WDFY2	0.751281006	-1.59164625	0.157946001
WDFY3	0.16026015	-1.848058201	-0.70916347
WDPCP	0.508196033	-0.70643918	0.205008005
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WDR11	0.180720378	-4.910441937	
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WDR16	0.667555512	-0.492220862	
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WDR18	0.444376157	-1.556140036	
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WDR25	0.916893568	-1.063132817	
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WDR3	0.133122725	0.797250608	
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WDR31	0.155458316	-2.279329953	0.712253934
WDR45	0.577054346	1.227684432	0.306428193
WDR48	0.629339917	1.51561487	0.450920366
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WDR49	0.271951275	-0.376359431	
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WDR59	0.045522002	-1.516634113	
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WDTC1	0.518268561	-3.31453122	0.698536087
WFDC2	0.00225649	1.807382838	0.305748626
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WFIKKN1	0.393143732	-0.886225885	
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WIPI1	0.917513857	-0.535523797	0.271269676
WIPI2	0.209796825	-0.995666567	0.079107338

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WSB1	0.441124485	-0.851788831	0.738858836
WSB2	0.759003582	-1.340470819	0.927445058
WWP1	0.020670525	1.378938496	0.125654792
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WWP2	0.172954759	-0.862372858	
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XBP1	0.400986467	0.874258782	0.942362595
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XPNPEP1	0.061044255	-3.756847547	0.043533197
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XXYLT1	0.738858838	-0.837667479	0.552174822
YBX1	0.382530809	0.742123305	0.134135152
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YIPF1	0.946717589	-1.057790504	
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YKT6	0.011854179	1.485327791	0.388397029
YME1L1	0.40803606	2.149682565	0.180709264
YOD1	0.520802723	0.155686622	0.085579091
ZBTB40	0.473284669	0.138056432	0.10882152
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ZDHHC15	0.392278091	0.019998603	0.630450492
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pseudo_1001	0.838654799	0.519086865	0.843544721	
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pseudo_1019	0.067339177	2.277650596	
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pseudo_102	0.380280832	-0.639176521	0.748317353
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pseudo_1223 0.181044129	0.092177711	-1.255591956	0.717138906
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pseudo_1228 0.122574517	0.975993098	0.446628183	0.98971006
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pseudo_123	0.045522 0.470128087	0.70259047	0.15733744
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pseudo_1236 0.548051694	0.825544473 -0.504971215	-0.576662083	
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0.657915438	-0.374525321		
pseudo_2018	0.511206967	-0.386838327	0.034589214
0.613969005			
pseudo_2019	0.346462736	-0.130305224	0.119191021
0.402284981			
pseudo_202	0.192716363	-0.376085143	
0.237430835	-0.298873558		
pseudo_2020	0.689877146	0.864491215	
0.297633747	-0.565445884		
pseudo_2021	0.748317354	-0.304776925	
0.451389883	-0.34368172		
pseudo_2022	0.074158814	1.103155016	0.510704496
0.535953267			
pseudo_2023	0.780512769	0.035895311	
0.384112272	-0.131532616		
pseudo_2024	0.218736871	0.566173739	
0.052617119	-0.719275509		
pseudo_2025	0.982227445	-2.040192265	0.788924044
0.104851621			
pseudo_2026	0.779301896	-0.2033858	0.839971723
0.26411992			
pseudo_2027	0.217568177	-3.369860671	0.725331486
0.095186582			
pseudo_2028	0.737089704	-0.459218373	
0.628230172	-0.066605012		
pseudo_2029	0.104077723	1.04264966	
0.351692507	-0.253063104		
pseudo_203	0.895217987	-1.567055281	0.905118111
0.111166512			
pseudo_2030	0.885951389	-0.196267317	
0.135972514	-0.947364755		

pseudo_2031 0.25929338	0.129922669	-0.760189848	0.538202696
pseudo_2032 0.312259673	0.449513457	-4.193342766	0.455628007
pseudo_2033 0.256570186	0.275376835 -0.605285404	0.176556789	
pseudo_2034 0.232196655	0.18643574	1.349637648	0.574605308
pseudo_2035 0.189451437	0.551702595	0.536616463	0.232807798
pseudo_2036 0.401424905	0.299450268 -0.849542012	-0.649351532	
pseudo_2037 0.096172772	0.190324415 -0.184420919	0.46129948	
pseudo_2038 0.282666034	0.376472966 -0.435932731	0.246826341	
pseudo_2039 0.535218546	0.669831831	0.461628056	0.169773489
pseudo_204 0.250074837	0.619934036 -0.746470443	0.329761788	
pseudo_2040 0.506694053	0.470396098 -0.073332568	0.418894186	
pseudo_2041 0.079320885	0.470396098	0.643025807	0.395747584
pseudo_2042 0.564309933	0.553270915 -0.824988989	0.757173947	
pseudo_2043 0.762576021	0.569603618 -0.187330992	-0.059095646	
pseudo_2044 0.784114519	0.543893912 -0.10659857	0.584964271	
pseudo_2045 0.279825583	0.838654799	0.583333394	0.581332413
pseudo_2046 0.245926739	0.050278053	1.300760969	0.248148827
pseudo_2047 0.739878785	0.633230583	-0.271043932	0.226443376
pseudo_2048 0.145452144	0.599677652 -0.583325843	0.805457224	
pseudo_2049 0.255807642	0.564309934	-1.412427668	0.35574925
pseudo_205 0.081944009	0.64833192 -0.498633795	-0.204847787	
pseudo_2050 0.179881993	0.873004588	0.172558374	0.279526229
pseudo_2051 0.851323338	0.495256892	-0.184698343	0.028543484
pseudo_2052 0.146101677	0.860705789 -0.571022131	-0.269708592	
pseudo_2053 0.830112517	0.67553588 -0.273801841	0.425015523	

pseudo_2054 0.62458599	0.265187962	0.215746283	0.754248324
pseudo_2055 0.394359807	0.596421265	0.609830487	0.995322652
pseudo_2056 0.15748622	0.040305463 -0.282898989	-1.725793148	
pseudo_2057 0.459621347	0.016465536	-1.812886597	0.320680657
pseudo_2058 0.102349245	0.757263722 -0.568570027	0.727298459	
pseudo_2059 0.269267161	0.350481222	-0.36587448	0.321061693
pseudo_206 0.244730834	0.33302041	0.268632182	0.395747584
pseudo_2060 0.779976643	0.657915439	-0.614863457	0.343269157
pseudo_2061 0.019524209	0.69166963	0.097374844	0.359641094
pseudo_2062 0.164500162	0.984721509	-0.425169633	0.597505831
pseudo_2063 0.370596573	0.655655355 -0.577160741	-2.246643786	
pseudo_2064 0.190823563	0.275032959	-0.301946198	0.728852304
pseudo_2065 0.26279484	0.644963258	-0.683058044	0.962906197
pseudo_2066 1.087531198	0.129329362	-3.008052571	0.201952001
pseudo_2067 0.644963257	0.119561946 -0.087230367	2.253922103	
pseudo_2068 0.633230582	0.248789676 -0.08572358	0.9378366	
pseudo_2069 0.346501787	0.377739633	-1.449788416	0.248789674
pseudo_207 0.734144249	0.064127964 -0.369274413	-0.84157529	
pseudo_2070 0.316319995	0.207533265 -0.06866444	1.410519014	
pseudo_2071 0.779641268	0.026884993	-1.463701127	0.046030995
pseudo_2072 0.81151821	0.767944159	-0.349003283	0.217568176
pseudo_2073 0.013119796	0.632117921 -1.348222889	-3.799818257	
pseudo_2074 0.921236633	0.711889311 -0.42544999	-0.74857114	
pseudo_2075 0.098859021	0.211220588 -0.632535568	0.134397109	
pseudo_2076 0.645989227	0.496245924	-0.236029628	0.371432554

pseudo_2077	0.283590857	-0.762172765	
0.038338124	-0.765323184		
pseudo_2078	0.903260667	-0.257959001	
0.034189909	-0.643862771		
pseudo_2079	0.569073185	-1.077325991	
0.747725066	-0.166001387		
pseudo_208	0.859477715	-1.688782711	0.763767964
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pseudo_2080	0.811270152	0.437049633	0.812482619
0.363501561			
pseudo_2081	0.2328078	-2.230026567	
0.634344074	-0.412137979		
pseudo_2082	0.244328001	-0.314023282	0.242748241
0.204501789			
pseudo_2083	0.928066149	-0.834915852	
0.505694035	-0.128734544		
pseudo_2084	0.972876451	-0.002701507	
0.66244498	-0.279845743		
pseudo_2085	0.723573249	-0.636853965	
0.776915721	-0.125459294		
pseudo_2086	0.427799382	0.607674054	0.360245609
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pseudo_2087	0.344065784	0.013555302	0.262182595
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pseudo_2088	0.167116087	1.634949984	0.281966242
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pseudo_209	0.123892839	1.257531499	
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pseudo_2090	0.240862031	-0.079758872	
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pseudo_2091	0.501704379	-0.48506048	0.372688715
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pseudo_2095	0.623246768	0.880433895	0.506193914
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pseudo_2096	0.480062442	-0.733375485	0.118821001
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0.336152618	-0.564201015		
pseudo_2099	0.560092111	-2.2783161	
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pseudo_21	0.89769155	-2.01930284	
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pseudo_210	0.379008922	-1.747285796	0.094004703
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pseudo_2100	0.805819688	0.490531871	
0.234341661	-0.640391759		
pseudo_2101	0.885965391	-0.41272917	0.605888732
0.205666522			
pseudo_2102	0.864392024	-0.37011942	
0.371014418	-0.30014002		
pseudo_2103	0.642161592	0.385551939	
0.394878476	-0.214339195		
pseudo_2104	0.166157547	-2.469611537	
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0.848440681	-0.092658232		
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pseudo_211	0.853955625	-2.211104534	0.315754097
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0.613880724	-0.085067143		
pseudo_2111	0.87608421	0.242420348	
0.456100288	-0.316414724		
pseudo_2112	0.895217987	0.305334588	
0.352906442	-0.123346886		
pseudo_2113	0.996054305	0.574513751	0.977239862
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pseudo_2119	0.090082385	-0.923803836	
0.651707795	-0.091270711		
pseudo_212	0.607853615	-0.836263722	0.021274851
0.870992771			
pseudo_2120	0.819159155	-0.266263765	0.448576902
0.26149121			

pseudo_2121 0.19965031	0.395747586	0.215704879	0.85579554
pseudo_2122 0.500709572	0.317264642 -0.322955813	1.650399744	
pseudo_2123 0.930550951	0.097745753 -0.256450639	-1.79956204	
pseudo_2124 0.064825268	0.265494703	0.841745737	0.89117494
pseudo_2125 0.130120905	0.992828121 -0.120172169	-5.048914626	
pseudo_2126 0.764144523	0.88224904	0.765448109	0.078567843
pseudo_2127 0.270521152	0.225245317	-1.783816879	0.551180305
pseudo_2128 0.542338797	0.703750429 -0.695796386	0.3817294	
pseudo_2129 0.902641636	0.207251571 -0.010712784	-1.544861054	
pseudo_213 0.308828887	0.187954403	1.214655626	0.978486682
pseudo_2130 0.105584257	0.439272519 -0.14566327	-0.581739474	
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pseudo_2132 0.122672206	0.911933107	-0.610513821	0.254609399
pseudo_2133 0.509516238	0.158868602	-1.372972394	0.271269671
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pseudo_2137 0.424618444	0.06652422 -0.703536251	0.665956082	
pseudo_2138 0.695430454	0.173329596 -0.071691851	-0.437334529	
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pseudo_2141 0.516751123	0.428254931 -0.509325755	1.033214577	
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pseudo_215	0.837395199	0.100988784	
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pseudo_2169 0.107790849	0.242118355 -0.517916124	0.23495364	
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pseudo_2179 0.193786512	0.769736029 -0.21541687	-0.301310759	
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pseudo_2198 0.334975824	0.498723106 -0.313834612	-3.524818037	
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pseudo_22 0.509198638	0.890891717 -0.400281929	0.540305203	
pseudo_220 0.101621988	0.315377203	0.878488652	0.819766771
pseudo_2200 0.685850076	0.908834548 -0.188554611	-0.696963044	
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pseudo_2203 0.024753347	0.388827095 -1.256076222	-0.081489667	
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pseudo_2207 0.65087016	0.028373762	-0.080052069	0.517256677
pseudo_2208 0.431785736	0.150488758	-0.894638244	0.501704377
pseudo_2209 0.373798936	0.719476374	-0.21929164	0.51372318
pseudo_221 0.457045676	0.744174494 -0.20840362	-0.543179195	
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pseudo_2211	0.222269986	-1.29131522	
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pseudo_2220	0.748909788	-0.096173727	0.039926085
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pseudo_2223	0.689877146	-2.508015702	
0.397053412	-0.736436342		
pseudo_2224	0.905737376	0.462616327	0.30017894
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pseudo_2225	0.975993098	1.140957856	
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pseudo_2226	0.954186927	0.507059501	
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pseudo_2227	0.767347144	-0.299215534	0.563781867
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0.219616342	-0.190945457		
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pseudo_3026 0.203839883	0.173942515	1.246476848	0.695645342
pseudo_3027 0.753072589	0.17369518	-2.960103953	0.871773274
pseudo_3028 0.785294828	0.659612557	0.995644871	0.22855091
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pseudo_3035 0.220498351	0.137208182 -0.713709869	-0.337739162	
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