

Marker	KLMinusKP	KLMinusKP	KLMinusKP	KL	KP	KLMinusKP	KCMinusKF	KCMinusKF	KCMinusKF
ABCA4	0.00012	-4.16516	-9.94887	4.164069	7.478601	0.000744	0.000166	-4.12529	-11.5623
ABCC2	0.005474	2.901254	3.875018	4.670878	2.716675	0.01911	1.49E-05	4.880957	15.04813
ABP1	0.043329	2.072118	3.427607	8.962434	7.185232	0.09963	0.012994	2.591688	4.576873
ACBD7	0.989652	-0.01303	-1.00346	4.869649	4.874633	0.992236	0.572112	-0.5693	-1.15597
ACMSD	0.687243	-0.4049	-1.4054	1.155928	1.646912	0.787766	0.078502	-1.80236	-7.09802
ADCYAP1	0.272291	1.1098	1.837416	3.096727	2.219049	0.402152	0.411355	-0.82958	-1.69235
ADH1A	0.100451	-1.673	-3.66209	0.345429	2.218095	0.190956	0.47819	-0.71546	-1.68465
ADH1B	0.062834	-1.90194	-2.22514	8.532067	9.685965	0.131848	0.078003	-1.80549	-2.32811
ADSSL1	9.17E-07	5.582776	4.040895	8.967644	6.952969	1.17E-05	0.082703	1.776638	1.753996
AIM1L	0.005768	-2.88206	-4.36342	2.962065	5.087523	0.019777	0.001053	3.513988	4.443297
AKR1B10	0.0137	2.553429	15.17673	4.760892	0.837103	0.038122	8.05E-10	7.838022	1709.397
AKR1C1	1.07E-07	6.180547	19.85805	12.25559	7.943936	1.95E-06	3.98E-06	5.283295	11.56733
AKR1C2	3.93E-08	6.456127	48.47071	11.67542	6.07638	7.95E-07	2.64E-07	6.096764	41.50205
AKR7A3	0.000254	3.933803	7.633959	7.947201	5.01477	0.001371	0.004825	2.97239	6.356324
ALDOB	0.087657	-1.74132	-2.1114	1.862722	2.940923	0.174405	0.078051	1.805184	4.149503
ALOX12P2	0.002114	3.238757	13.26299	4.178271	0.448937	0.00837	0.045237	2.062468	7.690802
ALOX15	0.676866	0.419151	1.298872	4.126018	3.748759	0.782881	0.553364	0.597414	1.438054
ALPK3	0.049183	2.015068	1.962352	9.650478	8.677894	0.111754	0.792426	-0.2648	-1.1039
ALPPL2	0.646276	0.461678	1.609487	1.921112	1.234511	0.763495	0.701373	0.386037	1.565407
AMT	0.885486	0.144741	1.044654	6.717037	6.654012	0.934139	0.970413	0.037307	1.011299
ANKFN1	0.086714	-1.74668	-3.37549	1.365195	3.120291	0.173427	0.695093	-0.39459	-1.38216
ANKRD22	1.30E-06	-5.4838	-4.72647	6.922639	9.163403	1.56E-05	0.060767	1.92573	1.735549
ANKRD34A	0.058827	-1.93276	-1.76311	4.417473	5.235591	0.126199	0.145106	-1.48399	-1.60251
ANKRD34B	0.237117	-1.19629	-2.59363	1.217283	2.592256	0.363856	0.121457	-1.57991	-3.56362
ANKS4B	0.028524	2.253969	8.785406	1.77703	-1.35808	0.072061	7.09E-05	4.396879	112.2047
ANXA10	0.234937	1.201943	3.273286	-2.0332	-3.74394	0.363774	7.78E-07	5.774206	1174.176
ANXA2P3	0.017557	-2.4546	-3.11863	2.24447	3.885381	0.047813	0.038732	2.132328	2.332084
APBA2	0.257658	-1.14475	-1.44341	7.970956	8.50044	0.383491	0.001035	-3.51975	-3.34956
AQP5	0.13706	1.510606	3.321434	9.120945	7.389139	0.239233	0.363584	0.918301	2.383787
AQP6	0.20032	1.297436	2.784623	2.324505	0.847023	0.319181	0.286841	1.078461	2.550973
ARL14	0.020309	-2.39545	-5.67546	-1.9959	0.508834	0.054536	6.88E-09	7.188235	107.4971
ASAH2B	0.093842	1.707333	2.00994	3.300997	2.293844	0.180177	0.639383	0.471901	1.267816
ASCL1	0.000447	3.754256	49.61256	5.985499	0.352866	0.002199	0.15469	-1.44864	-4.04883
ASPG	0.034333	2.174477	8.76026	2.340397	-0.79058	0.081887	0.029336	2.254171	6.475095
ASPM	0.680472	0.41419	1.128844	8.046632	7.871785	0.784689	0.864955	0.171091	1.05614
ATP6V1C2	0.466567	0.733574	1.217083	7.648653	7.365226	0.607328	0.059118	-1.93871	-1.6715
ATP8A2	0.241217	1.185748	1.610635	4.594776	3.907147	0.367569	0.42879	-0.79881	-1.39229
B3GNT8	0.480637	-0.71049	-1.21193	8.534591	8.811891	0.619344	5.14E-05	-4.49822	-3.90219
B4GALNT2	1.25E-07	6.13771	153.1046	5.639757	-1.61862	2.18E-06	0.000428	3.817386	39.06006
BAALC	2.15E-05	4.680571	6.618358	8.081287	5.354814	0.000168	0.611029	0.512348	1.154207
BARX1	4.08E-07	5.808835	179.7627	9.591875	2.101925	5.40E-06	0.792167	-0.26514	-1.3901
BEND7	0.318408	1.00759	1.354063	7.502239	7.064943	0.447918	0.069925	1.858682	2.001559
BHMT2	0.930183	0.088048	1.051772	5.81007	5.737248	0.952507	0.199073	-1.30429	-2.20341
BPIL1	9.16E-05	4.247982	92.65331	6.799302	0.265532	0.000606	0.48068	0.711397	2.188945
BRDT	0.010045	2.673989	25.34064	4.617176	-0.0462	0.029446	0.044404	-2.0709	-16.0373
BTNL8	0.381426	-0.88291	-1.71129	0.071732	0.846818	0.512451	0.000252	3.991542	15.33013

C10orf108	0.002404	3.194396	5.594707	4.473412	1.98935	0.009323	0.000168	4.121881	11.64225
C12orf27	0.342847	0.95747	2.191076	1.796105	0.664465	0.475077	0.051555	2.002565	7.909456
C13orf38	0.11031	-1.62508	-2.65045	1.401835	2.808071	0.203648	0.126797	-1.55702	-2.7556
C14orf105	0.655536	0.448718	1.543913	-0.02238	-0.64897	0.767457	0.050503	2.01208	10.85446
C17orf104	0.313896	-1.01712	-1.36119	3.506575	3.951442	0.444783	0.002895	-3.15905	-2.60128
C1orf150	0.023586	-2.33377	-4.14126	0.467004	2.517075	0.062035	0.665065	-0.43593	-1.31056
C1orf61	0.245584	1.174667	2.210241	2.261902	1.117698	0.371276	0.66447	-0.43676	-1.44279
C1orf87	0.28616	-1.07788	-2.88511	-0.2415	1.287129	0.41941	0.113413	1.615978	4.046299
C1orf95	1.71E-05	4.748138	15.09896	6.671731	2.755354	0.000138	0.081188	-1.78579	-3.3028
C2orf40	0.088252	-1.73796	-3.94241	1.460245	3.439322	0.174685	0.981018	0.023932	1.015449
C2orf62	0.689601	0.401675	1.210584	2.44734	2.171637	0.788116	0.26991	1.11768	1.916611
C4BPB	0.155844	1.440476	2.184686	6.052316	4.92489	0.267161	0.49166	0.693605	1.688228
C4orf48	0.032236	-2.20169	-1.97777	4.910782	5.894655	0.078347	0.076683	-1.81385	-2.08381
C4orf7	0.351757	-0.93979	-1.95153	3.581097	4.545704	0.480078	0.394324	-0.86043	-2.19583
C6orf176	5.16E-08	6.38107	337.5345	6.254645	-2.14425	9.92E-07	0.202916	1.292996	5.240613
C8orf47	0.000243	3.947185	14.89311	7.101221	3.204648	0.001333	0.038823	2.131276	6.749446
C9orf125	0.006111	2.860807	2.337608	6.340985	5.115952	0.020407	1.62E-06	5.554685	7.765059
C9orf171	0.3504	-0.94246	-2.40065	0.373814	1.637242	0.480078	0.404325	0.84222	2.219894
CA4	0.536025	-0.62305	-1.67861	2.459954	3.207219	0.679878	0.485003	0.704365	1.805602
CABP4	0.000967	3.503017	3.739508	4.819879	2.91703	0.004266	0.00908	2.73269	2.767424
CABYR	4.76E-11	8.310906	12.40439	8.701204	5.068425	4.57E-09	0.305449	1.03718	1.587263
CALCA	8.75E-10	7.503216	2806.139	9.572237	-1.88213	3.36E-08	0.232207	1.211797	4.153995
CASKIN1	0.02182	2.36599	4.442564	3.685118	1.533725	0.057785	0.920616	-0.10024	-1.07807
CCBP2	0.051263	1.996213	1.961108	5.948961	4.977291	0.115117	0.864643	-0.17149	-1.05288
CCDC129	0.059396	1.928281	5.931016	2.315967	-0.25231	0.126712	0.723107	-0.35664	-1.46333
CD300LG	0.184967	-1.34378	-2.73957	0.221785	1.675734	0.304785	0.97366	-0.03321	-1.02521
CD80	0.000135	-4.12894	-2.36385	4.472805	5.713942	0.000819	0.157651	-1.43808	-1.37061
CDH15	0.205212	1.283231	1.962396	6.388586	5.41597	0.321638	0.002236	-3.25147	-3.55304
CECR7	0.848705	-0.19174	-1.17404	1.628214	1.859701	0.900284	0.442354	-0.77539	-2.14723
CELF5	0.53441	-0.62553	-1.5843	1.939355	2.603198	0.679878	0.707159	-0.37818	-1.32618
CENPE	0.985284	-0.01854	-1.00484	7.003237	7.010206	0.992236	0.92138	-0.09928	-1.0291
CENPF	0.703228	0.383113	1.112966	9.532317	9.377908	0.791171	0.776068	-0.28624	-1.08632
CHGB	0.001815	3.291092	9.636151	6.282591	3.014134	0.007261	0.569073	0.573829	1.556971
CHRNA9	0.000228	3.967505	34.53775	3.791472	-1.31863	0.001267	0.651219	-0.45525	-1.59298
CIT	0.00086	3.541525	2.929078	12.32351	10.77306	0.003867	0.001373	-3.42247	-3.2902
CITED1	0.513761	-0.65759	-1.37851	2.030785	2.493894	0.657615	0.413928	-0.82499	-1.79157
CKMT1B	0.009293	2.703752	2.897268	7.644539	6.109846	0.027883	3.76E-07	5.99149	12.30212
CLDN10	0.001188	3.434377	14.73388	9.789046	5.90798	0.005167	0.275097	1.105484	2.956606
CLEC4F	0.237833	-1.19444	-1.85506	1.540327	2.431791	0.363856	0.395723	-0.85787	-1.65001
CNGA3	0.002982	3.119036	9.796899	7.300417	4.008092	0.011141	0.001252	-3.45451	-14.8108
CNIH3	0.033001	-2.1916	-1.89096	4.357026	5.276142	0.079699	0.483502	0.706803	1.263157
CNNM1	0.67459	-0.42229	-1.31309	1.957178	2.350147	0.782606	0.027297	2.285148	5.254941
CNTN6	0.023938	-2.32763	-4.70902	0.67636	2.911786	0.062531	0.847797	0.193091	1.128977
COL25A1	4.50E-09	7.052575	141.4511	7.283925	0.139766	1.02E-07	0.913684	0.109032	1.085881
CPA6	0.343936	0.955293	2.287905	1.300492	0.106465	0.475077	0.053334	1.986853	5.381676
CPE	1.52E-05	4.782048	4.77253	12.41199	10.15724	0.000127	0.527129	0.637578	1.290928
CPLX2	2.87E-05	4.595293	82.41735	3.643989	-2.72089	0.000216	4.45E-05	4.54278	199.689

CPS1	9.89E-10	7.469366	87.94646	11.32321	4.86466	3.45E-08	0.010728	2.667554	6.376813
CRABP1	0.005921	2.872449	14.63543	3.23618	-0.63521	0.020076	0.881565	0.149874	1.176668
CRABP2	0.003088	-3.10683	-4.47828	9.393858	11.5568	0.011291	0.002403	-3.2258	-5.75664
CSF3R	0.22102	1.238994	1.513612	9.924473	9.326477	0.34361	0.461917	-0.74234	-1.29898
CTNND2	0.001198	3.431692	25.07073	5.734955	1.087022	0.005167	0.599426	0.529145	1.631834
CXorf61	0.469587	0.728587	2.334102	3.970804	2.747936	0.609194	0.569387	0.57336	2.170343
CYP4F11	0.275975	1.101211	3.301705	2.504049	0.780838	0.406032	1.52E-05	4.876193	105.8202
CYP4F3	0.011815	2.611349	6.473615	2.180449	-0.51412	0.03348	1.25E-09	7.704257	145.4661
DBC1	2.49E-07	-5.94634	-19.844	1.569789	5.880418	3.82E-06	0.000328	-3.90489	-12.2301
DDX3Y	0.078901	1.793017	14.27046	2.993188	-0.84177	0.160307	0.134368	1.525858	14.07706
DDX43	0.408094	0.834137	1.715355	3.334445	2.555938	0.542243	0.493846	0.69009	1.645416
DLL3	0.063353	1.898069	6.971169	3.821888	1.020488	0.132216	0.021351	-2.38903	-14.6086
DMGDH	0.312398	-1.02031	-1.80672	3.750696	4.604067	0.444783	0.030591	-2.23605	-4.14562
DMRTA2	0.847356	-0.19347	-1.22693	0.354083	0.649133	0.900284	0.830447	-0.21543	-1.31531
DNALI1	0.352558	0.938212	1.311911	8.896595	8.504925	0.480078	0.142042	-1.49567	-1.70056
DOCK3	0.091274	-1.72121	-1.70853	3.802662	4.575419	0.178592	0.462939	0.740637	1.296101
DPP10	0.500407	-0.67868	-1.81165	3.014009	3.871311	0.642663	0.004096	-3.03287	-17.2987
DUSP13	0.902709	0.122849	1.108956	1.810419	1.661217	0.946631	0.661004	-0.44158	-1.55248
DUSP4	1.71E-14	10.59805	8.633576	11.06917	7.95921	6.57E-12	2.05E-10	8.258355	6.10732
DYNLRB2	0.914855	-0.10745	-1.0781	1.33043	1.438919	0.952507	0.108101	1.64096	3.020312
EDAR	0.008913	2.719601	11.13856	3.032189	-0.4453	0.027827	0.000155	4.147953	61.70701
EN2	9.10E-06	-4.93054	-66.2923	-3.35506	2.695714	7.77E-05	0.74238	-0.33083	-1.34759
ENO3	2.40E-10	7.860686	15.71198	8.507136	4.533343	1.15E-08	0.608378	0.516172	1.17925
EPHA7	0.00434	2.985505	4.978182	3.400602	1.084983	0.015291	0.195015	1.316396	2.11306
ERAP2	0.311182	-1.0229	-1.44167	9.081764	9.609507	0.444783	0.967029	-0.04158	-1.01821
EREG	0.00219	-3.22669	-10.5255	3.46306	6.858882	0.00858	0.896344	-0.13105	-1.10376
EVC2	0.928772	-0.08983	-1.01915	6.489278	6.516639	0.952507	0.062712	-1.9108	-1.64522
F11	0.929323	-0.08914	-1.07931	1.261545	1.371654	0.952507	0.695672	-0.3938	-1.54041
FAM110C	0.291704	1.065419	1.888547	2.918975	2.001698	0.425911	0.00107	3.508392	7.720892
FAM132A	0.701368	-0.38564	-1.29273	0.399152	0.769572	0.791171	0.020939	2.397158	5.611287
FAM150A	0.248285	1.167883	2.324979	2.743919	1.526701	0.373888	0.551111	0.600825	1.79156
FAM72D	0.34647	0.950245	1.299614	5.334661	4.956577	0.476861	0.154544	1.449172	1.522979
FAM83B	0.194173	-1.31566	-3.37438	-0.10597	1.648646	0.314609	0.000226	4.026237	30.81519
FAM83F	0.010237	2.666741	7.271067	4.305092	1.442925	0.02978	3.08E-06	5.360769	45.71623
FEZF1	0.614239	-0.50714	-1.54553	2.2232	2.851302	0.739698	0.013101	-2.58843	-11.4857
FGB	7.51E-06	4.985834	416.6308	9.937429	1.234803	6.71E-05	0.557404	0.591317	2.461308
FGF19	0.336706	-0.96983	-3.13379	-1.7615	-0.1136	0.468461	0.039121	2.127863	14.7838
FLJ44635	0.199772	-1.29904	-1.57408	5.043152	5.697656	0.319181	0.656547	0.447799	1.186011
FMN2	0.781073	0.279393	1.185554	1.909906	1.664345	0.85208	0.549028	-0.60398	-1.55168
FOXD1	0.129169	1.542359	2.065105	2.109885	1.06367	0.230702	0.004843	2.970982	6.235864
FOXE1	9.11E-05	-4.24949	-62.3056	-2.77252	3.18877	0.000606	0.74459	-0.32788	-1.37316
FOXI3	0.36561	0.912862	2.476888	1.918449	0.609921	0.496093	2.83E-05	-4.68338	-82.8261
FUT9	0.581351	-0.55496	-1.88401	-1.00372	-0.08991	0.717809	0.058391	1.944531	10.46271
FXYD4	9.91E-05	4.224071	61.04849	3.341994	-2.58989	0.000645	0.08454	1.765737	7.607003
FZD10	0.000379	3.806509	7.887693	6.168373	3.188769	0.001916	0.001374	3.422188	6.780208
FZD9	0.098377	-1.68357	-3.16913	2.647929	4.312014	0.187944	0.004375	-3.00865	-10.3746
G6PD	0.001646	3.324422	2.169355	11.57283	10.45556	0.006797	0.007885	2.787125	2.014035

GABRB3	0.198225	1.303597	1.998239	6.051151	5.052422	0.318487	0.248383	1.170155	2.015697
GAL	0.000269	3.915404	26.43497	2.742802	-1.98157	0.001432	0.02919	2.256315	12.58939
GDA	0.031968	2.205284	4.977543	1.520469	-0.79496	0.07819	1.49E-08	6.955612	393.0047
GJB1	0.070439	1.847773	3.147467	8.414827	6.760636	0.145421	0.219118	1.24708	2.615101
GJB4	0.140186	-1.49843	-2.62262	-0.71324	0.677773	0.243581	1.71E-07	6.226402	49.69289
GJB5	0.592632	-0.53842	-1.48124	1.20628	1.773086	0.724748	0.001676	3.352962	20.59695
GJB7	0.245477	1.174936	3.546026	2.096515	0.270312	0.371276	0.197854	1.307907	4.291012
GLB1L3	2.42E-09	-7.22327	-557.104	-2.15737	6.964431	6.19E-08	4.71E-08	-6.61197	-481.834
GLDC	1.55E-06	5.43557	6.275281	6.221337	3.571657	1.75E-05	0.46369	0.739387	1.292304
GLT25D2	0.551669	-0.59923	-1.13064	3.882252	4.05939	0.689784	0.002577	3.200847	4.553951
GLTPD2	0.000137	4.125868	64.76004	3.36865	-2.64838	0.000819	0.192184	1.324955	5.17869
GPAT2	0.182748	-1.35072	-2.42164	3.930208	5.206195	0.302479	0.97399	0.032795	1.025508
GPC5	0.715597	-0.36638	-1.21588	2.661626	2.943632	0.798806	0.063252	-1.90672	-2.88354
GPR110	4.58E-11	-8.32143	-53.9387	4.627465	10.38071	4.57E-09	0.02583	-2.30873	-3.7171
GPR158	0.694739	-0.39466	-1.34681	1.74577	2.175316	0.79042	0.282826	-1.08761	-2.37641
GPR35	0.030305	2.228186	2.090707	6.480021	5.41603	0.074631	2.18E-11	8.958033	14.26356
GPR87	0.00014	-4.11845	-16.3741	1.890742	5.924083	0.000826	0.167792	1.403017	2.509696
GPX2	8.71E-06	4.943113	17.22587	9.790027	5.683523	7.60E-05	2.63E-05	4.706178	32.8037
GSTM1	0.647039	-0.46061	-1.70616	2.84739	3.618143	0.763495	0.668315	-0.43143	-1.8385
GSTT1	0.830378	0.215318	1.345596	5.503555	5.07531	0.888204	0.660257	0.442623	2.064842
GTF2H2B	0.089503	-1.73097	-1.82444	4.87182	5.73927	0.176253	0.737784	0.336963	1.122851
HAVCR1	0.000422	3.772701	17.72382	5.199063	1.051445	0.002103	0.009506	2.714872	13.35959
HBA1	0.927709	0.091177	1.081416	4.98246	4.869537	0.952507	0.152832	1.45536	3.12068
HCN4	0.570637	0.570807	1.525838	2.18306	1.573458	0.706854	0.309511	1.028402	2.053469
HHIPL2	8.70E-05	4.26363	23.83377	6.12928	1.554344	0.000596	0.011092	2.654431	9.990826
HHLA2	2.42E-06	-5.30955	-36.344	3.048596	8.23224	2.65E-05	0.189362	-1.33358	-3.81529
HIST1H2AE	0.987708	-0.01548	-1.00842	2.530605	2.542698	0.992236	0.712024	0.371588	1.282835
HIST1H3E	0.008402	2.741979	4.125829	4.851062	2.806378	0.027113	0.052663	1.992722	3.325332
HJURP	0.904722	0.120295	1.032554	7.238017	7.191799	0.946631	0.123044	1.57302	1.58332
HMGA2	0.075856	-1.81213	-4.37718	1.35094	3.480943	0.155767	0.031653	2.221219	8.136579
HNF4A	0.102324	1.663609	4.666365	0.916466	-1.30583	0.193559	4.80E-05	4.519101	174.3937
HORMAD1	0.661688	0.44015	1.544819	3.690973	3.063535	0.772305	0.196271	-1.31263	-4.41723
HOXA10	0.077455	-1.80201	-2.38713	2.652877	3.908157	0.158207	0.082142	1.78001	3.038928
HOXB13	0.028974	2.24733	14.05942	0.901226	-2.91224	0.072246	0.039726	2.121017	17.38838
HOXB7	0.150787	1.458671	1.615682	6.774541	6.082397	0.259652	0.01058	2.67302	2.636423
HOXB8	0.158459	1.431248	3.135644	2.166696	0.517934	0.270436	0.03434	2.185577	5.536994
HOXB9	0.196802	1.307812	3.996111	2.318794	0.320198	0.317529	0.032617	2.20813	9.267624
HOXC10	0.185728	1.341417	4.289942	4.478462	2.377504	0.304785	0.936952	0.079565	1.100976
HOXC11	0.040927	2.097475	13.80263	2.676218	-1.11065	0.096418	0.218948	1.247549	5.760246
HOXC13	0.037382	2.1374	15.58356	3.336434	-0.62552	0.088608	0.589954	-0.54297	-2.30993
HOXC5	0.988902	0.013979	1.010708	2.255583	2.240216	0.992236	0.123258	1.572099	2.956934
HOXC8	0.700726	0.386511	1.412776	2.299858	1.801325	0.791171	0.606692	0.518609	1.629714
HOXC9	0.565182	0.578934	1.680658	2.844623	2.095596	0.702362	0.294021	1.062319	2.372382
HOXD4	0.95605	0.055382	1.050412	1.81472	1.743765	0.971226	0.0013	-3.44135	-37.0973
ICAM1	1.43E-10	-8.00487	-4.36074	12.03717	14.16174	7.83E-09	5.93E-09	-7.23293	-4.7187
IFT57	3.98E-07	-5.81572	-3.22327	9.617045	11.30557	5.40E-06	8.87E-05	-4.32613	-2.98791
IGF2BP1	0.118154	1.589385	5.066204	2.95766	0.616755	0.21503	0.367628	0.910512	2.812597

IGFBPL1	0.795124	0.261025	1.210378	3.60045	3.324993	0.862507	0.012927	-2.59375	-11.8064
IGSF1	0.926954	0.092132	1.072509	1.793406	1.692416	0.952507	0.044158	2.073417	4.866393
IL1F7	3.23E-07	-5.87377	-127.68	-0.34939	6.646994	4.77E-06	2.89E-05	-4.67729	-33.8302
IL31RA	0.06066	-1.91845	-4.96493	2.789717	5.10149	0.127985	0.013316	-2.58192	-10.9067
INHA	6.44E-10	7.58791	163.2115	8.108751	0.758152	2.75E-08	0.000379	3.85697	29.61069
IP6K3	0.009242	2.705849	5.317819	5.900825	3.489991	0.027883	0.471104	0.727102	1.307104
IRX1	0.536466	-0.62238	-1.73161	0.590927	1.383037	0.679878	0.298159	1.05314	2.636265
IRX5	0.204048	1.286588	1.587112	8.699939	8.033534	0.321638	0.019855	-2.41927	-2.79598
IVL	3.53E-07	-5.84909	-132.072	-1.28686	5.758319	5.02E-06	0.001725	-3.34287	-14.2381
KBTBD12	0.74756	-0.32361	-1.22245	3.765253	4.055028	0.82253	0.370285	-0.90543	-2.2752
KCND3	0.996673	0.004191	1.002383	3.369064	3.365629	0.996673	0.764274	0.30178	1.190216
KCNG2	0.429723	0.795998	1.599473	2.511917	1.83432	0.565115	0.002873	-3.16183	-14.4188
KCNG3	0.011857	-2.60995	-6.4547	0.775473	3.465824	0.03348	0.044634	-2.06856	-3.94985
KCNMB2	0.553264	-0.59683	-1.19499	2.108235	2.365235	0.689784	0.255251	-1.15307	-1.75437
KIAA0408	0.02485	-2.31203	-7.89257	2.551092	5.531588	0.063872	0.00342	-3.09882	-33.3874
KIAA1543	0.839092	0.204095	1.057403	8.925197	8.844671	0.895031	0.835244	0.209246	1.063165
KIAA1984	4.91E-06	5.107959	4.255117	4.871665	2.782466	4.71E-05	0.27667	-1.10182	-1.95465
KIF1A	0.027961	2.262426	10.3739	5.17902	1.804134	0.071105	0.928737	0.08996	1.091396
KLK11	7.26E-05	4.318248	13.25467	9.562573	5.834144	0.000507	0.037688	2.144477	4.199415
KLK12	0.000145	4.106781	123.5037	7.005824	0.057413	0.000845	0.775181	0.287407	1.385977
KLK14	1.72E-05	4.745046	105.8892	4.522824	-2.20359	0.000138	0.519334	0.649712	1.882832
KLK7	0.543984	0.610893	1.761361	0.262679	-0.55401	0.684885	1.81E-07	6.20979	192.5438
KRTAP4-1	0.412228	0.826754	2.52235	1.901967	0.567198	0.543971	0.911518	-0.11178	-1.16166
KYNU	0.007998	2.760554	2.10193	8.462155	7.39044	0.026028	6.90E-07	5.810197	6.342406
LANCL3	0.001709	3.311715	5.342372	3.63775	1.22027	0.006981	0.040771	2.109391	3.59766
LEMD1	0.000109	-4.19617	-7.55959	2.580818	5.499126	0.000686	0.81532	-0.23501	-1.10773
LGALS4	0.92168	0.098805	1.085725	3.495835	3.377176	0.952507	0.008435	2.761148	27.14079
LGSN	0.00303	3.113498	5.008138	8.988968	6.664693	0.011186	0.130166	-1.54297	-3.16273
LMX1B	0.943947	-0.07066	-1.06056	2.016684	2.101507	0.963078	0.825934	0.221265	1.205339
LOC100130	0.108293	-1.63459	-2.6138	1.512856	2.899008	0.200892	0.895597	0.132003	1.075483
LOC145837	3.27E-05	4.556549	17.71412	7.649551	3.502723	0.000242	0.158598	-1.43473	-2.05658
LOC150622	0.000226	3.970348	44.28386	2.322844	-3.14586	0.001267	0.013997	2.561923	15.63795
LOC339535	0.250738	1.161767	3.293816	1.151245	-0.56851	0.376108	0.311883	1.023312	2.951749
LOC554202	0.091621	1.719317	4.093645	1.378319	-0.65507	0.178592	4.26E-06	5.262711	91.71747
LOC654433	0.713038	-0.36983	-1.17716	6.498529	6.733839	0.79827	0.035275	2.173765	2.770515
LOC84740	0.057457	-1.94372	-2.77118	9.074767	10.54527	0.12458	0.008522	-2.7572	-5.38362
LPCAT4	0.761307	-0.3054	-1.03731	8.833316	8.886161	0.835262	4.95E-06	5.217295	3.30384
LRP3	0.261194	1.136176	1.302386	9.211409	8.830252	0.387252	0.364617	-0.91631	-1.27318
LRRC66	0.726879	0.351207	1.225352	0.913726	0.620529	0.809048	8.91E-09	7.110191	69.64112
LRRIQ4	0.001808	3.292391	10.92151	2.729926	-0.71917	0.007261	0.062876	1.909559	5.107037
LYPD6	0.117683	1.591473	2.436215	3.172925	1.888284	0.21503	3.96E-06	5.284804	14.49754
MARK1	0.000218	3.981714	3.177477	7.473453	5.805571	0.001247	0.525467	0.640157	1.23362
MEGF11	0.008739	-2.72709	-7.91592	0.579317	3.564074	0.027507	0.197911	-1.30774	-2.73196
MIA	0.855805	-0.18264	-1.13143	0.66452	0.842668	0.905314	3.07E-05	4.658651	42.18831
MLLT11	0.000812	3.56064	2.557652	7.359798	6.004978	0.00371	0.512123	0.661025	1.201164
MS4A1	0.297405	-1.05278	-1.53661	6.243021	6.86277	0.432589	0.733057	-0.34329	-1.17331
MSMB	1.02E-06	5.551572	171.8938	9.213799	1.788425	1.27E-05	0.000106	4.269013	77.10446

MTMR7	3.64E-06	5.193169	5.314657	7.543154	5.133178	3.78E-05	0.335086	0.974853	1.188255
MUC13	0.000652	3.632075	16.90401	7.657707	3.578414	0.003092	1.58E-07	6.250196	178.1133
MUC16	0.387423	-0.87176	-1.97773	6.677748	7.661597	0.518363	0.291652	1.067613	2.670869
MUC5B	4.16E-06	5.154981	30.47113	14.33811	9.408739	4.10E-05	8.12E-05	4.353911	34.29521
MUC6	0.04779	2.028091	5.731662	4.997871	2.478917	0.109234	4.89E-05	4.513628	64.8873
MYBL2	0.926822	0.092299	1.02997	8.622199	8.579597	0.952507	0.386822	0.874282	1.326975
MYBPHL	0.013247	-2.56666	-5.70126	3.178041	5.689322	0.037129	0.000484	-3.77596	-25.9322
MYEOV	0.049882	2.008655	3.549358	7.071037	5.243479	0.112676	0.000114	4.246313	16.85563
MYO1A	0.070143	-1.84978	-3.38027	-1.03016	0.726979	0.145421	0.000606	3.701327	19.65993
MYT1	0.000529	3.699924	16.3737	4.455469	0.422161	0.002571	0.250301	-1.16535	-2.44754
NEK2	0.548583	0.603907	1.171574	7.600431	7.371983	0.688417	0.646503	0.46187	1.146529
NEURL	0.00073	3.595323	3.338572	4.050426	2.311195	0.003378	0.001357	3.426505	2.76005
NKAIN4	0.540333	-0.61646	-1.61778	0.539613	1.233632	0.682526	0.062478	1.912578	3.68093
NKX2-1	0.093616	-1.70854	-1.36378	11.48603	11.93364	0.180177	8.22E-09	-7.1346	-8.57804
NLRP12	0.002726	-3.15054	-3.0261	3.356209	4.953669	0.010364	0.834634	-0.21003	-1.09624
NLRP2	0.672533	-0.42513	-1.25336	7.565048	7.89085	0.782584	0.351918	-0.94109	-1.70495
NMNAT2	2.51E-05	-4.6348	-7.95722	5.433814	8.426078	0.000193	0.016531	-2.49459	-3.87329
NR1I2	0.478478	-0.71401	-1.5242	0.460904	1.068952	0.618638	0.086499	1.754325	4.353553
NSUN7	0.747501	-0.32368	-1.0716	7.424141	7.523904	0.82253	0.040754	-2.10957	-1.71847
NTNG2	0.055788	1.957367	2.130467	5.171088	4.079918	0.123118	0.719397	0.361633	1.09243
NTSR1	0.729464	-0.34774	-1.3865	-1.09379	-0.62234	0.809579	0.000271	3.96738	40.88436
ODC1	2.12E-09	7.259404	5.949619	13.9805	11.4077	5.92E-08	0.162678	-1.42048	-1.43175
ODZ1	5.51E-06	5.074962	12.7958	7.951061	4.273463	5.04E-05	0.03178	-2.21948	-3.4991
OGDHL	0.056942	-1.94789	-4.37682	1.15968	3.289564	0.124237	0.029048	-2.25842	-6.2702
ONECUT1	0.136911	-1.51119	-2.77578	1.234763	2.707656	0.239233	5.39E-06	-5.19159	-66.1563
OR51E1	0.452025	0.757856	1.584447	2.574215	1.910236	0.5904	0.279364	-1.09557	-2.34412
P704P	0.002988	-3.11832	-2.40551	4.022651	5.288996	0.011141	0.634363	-0.479	-1.18005
PAEP	0.001308	3.402257	36.29952	9.945493	4.763615	0.005579	0.277786	1.099225	3.950947
PAH	0.001574	3.339581	19.77676	3.632174	-0.67356	0.006571	0.129747	1.544702	6.41895
PAK3	1.53E-09	7.349431	37.66701	6.555525	1.320295	4.89E-08	0.599471	-0.52908	-1.3897
PAX7	0.009144	2.709886	28.22881	3.119925	-1.69917	0.027883	0.376363	-0.89388	-3.26076
PCDHB5	0.381669	-0.88246	-1.40916	5.99502	6.48986	0.512451	0.666474	-0.43398	-1.19492
PCDHGB5	0.592232	0.539	1.26135	6.636877	6.301909	0.724748	0.467899	-0.7324	-1.43778
PDE4D	1.27E-10	8.036641	4.366011	11.60558	9.479261	7.83E-09	0.01526	2.527089	1.769154
PFN2	6.71E-05	4.342139	2.903102	10.91254	9.374946	0.000477	0.130233	1.542696	1.659008
PIP	0.313338	-1.01831	-3.06292	-0.98176	0.633143	0.444783	0.011413	2.643185	15.99358
PITPNC1	2.16E-09	7.25428	3.727774	10.29956	8.401244	5.92E-08	0.077879	1.806265	1.427831
PLAT	0.000866	-3.53929	-2.96615	9.389717	10.95831	0.003867	0.407584	-0.83635	-1.39312
POF1B	0.442027	0.774815	1.502505	6.293858	5.706489	0.579312	0.000191	4.080317	8.910354
POLR3H	0.006169	2.857357	1.944065	10.97596	10.01688	0.020421	0.096613	-1.69864	-1.32264
POM121L1	0.024166	-2.32367	-3.5049	1.259757	3.069129	0.062702	0.004236	-3.02051	-7.07156
POPDC3	0.12745	1.549482	3.115733	1.803454	0.163883	0.229769	0.000133	4.198297	19.07213
POTEE	0.15065	-1.45917	-2.27956	1.735772	2.924527	0.259652	0.65128	0.455166	1.323916
POTEF	0.016581	-2.47759	-3.25232	2.821035	4.522502	0.045478	0.685693	0.407458	1.180879
POU4F1	0.804534	-0.24878	-1.26082	0.575121	0.909481	0.867811	0.036574	-2.15779	-9.9438
POU6F2	0.318441	1.00752	2.802066	1.570547	0.084056	0.447918	0.090915	-1.72938	-8.58579
PPP2R2C	0.008496	2.737766	5.39861	5.620314	3.187726	0.027188	0.001015	3.526501	10.33748

PRAME	0.323903	0.996102	2.603893	4.974941	3.59427	0.452287	0.854682	-0.18425	-1.22302
PRKY	0.083413	1.765813	2.809763	4.124515	2.634067	0.168582	0.271017	1.115062	2.329416
PROM1	0.945522	0.068669	1.048445	6.869208	6.800956	0.963078	0.383728	0.880044	2.052944
PRR15	0.89073	0.138068	1.054228	4.674222	4.598035	0.937097	2.54E-11	8.90957	19.35432
PRR18	0.96598	-0.04286	-1.0259	1.497132	1.534021	0.978724	0.60105	-0.52679	-1.5152
PRSS1	0.598325	0.530127	1.607119	-0.625	-1.30948	0.727078	3.43E-06	5.328247	168.7769
PRSS21	0.597807	-0.53088	-1.5823	2.861157	3.523182	0.727078	0.856041	-0.18251	-1.17553
PRSS3	0.030319	-2.22799	-3.64858	0.862226	2.729562	0.074631	0.000118	4.236402	18.45503
PRSS50	0.80082	-0.25361	-1.19521	1.931365	2.188632	0.866239	0.232394	-1.2113	-2.69081
psiTPTE22	0.704637	0.381202	1.166088	5.020604	4.798927	0.791171	0.67902	0.416632	1.203477
PTGDS	0.021284	-2.37622	-2.0359	8.94677	9.972436	0.056758	0.19989	-1.30187	-1.48419
PTHLH	0.055681	1.95825	2.238163	6.283706	5.121391	0.123118	0.198012	1.307438	1.899193
PTPN20B	0.204548	1.285142	2.294092	3.147721	1.949798	0.321638	0.314873	1.016934	2.094078
PTPRN2	0.12332	1.566909	1.642057	8.010397	7.294893	0.223373	9.19E-06	5.029627	6.478579
QPRT	0.614489	-0.50679	-1.18845	8.414918	8.664003	0.739698	0.117423	-1.59775	-1.89951
REG4	0.619113	-0.50016	-1.46149	-1.78321	-1.23577	0.742936	3.12E-05	4.653336	262.0392
REP15	0.605031	0.520409	1.099973	2.926379	2.788911	0.732908	5.00E-08	6.593809	7.540788
RET	2.99E-06	5.249437	10.11507	7.546379	4.207945	3.19E-05	0.392214	0.864309	1.277073
RGS6	0.106131	-1.64495	-4.65429	-0.68652	1.53204	0.198802	0.497524	0.684194	2.069239
RGS7	0.134533	1.520612	4.989978	1.851333	-0.4677	0.236976	0.801757	-0.25263	-1.31993
RNF126P1	0.650164	0.456227	1.368491	2.365988	1.913402	0.763495	0.22857	-1.22145	-2.29854
RNF183	0.018373	2.436222	6.618778	4.243611	1.517046	0.049685	0.002918	3.156179	8.105624
RORB	3.92E-06	5.172281	5.707861	4.618914	2.105964	3.96E-05	0.410832	-0.83052	-1.37996
RPL13AP17	0.300898	-1.04511	-2.53314	0.858658	2.199584	0.436019	0.37647	-0.89368	-2.27196
RPL19P12	0.052116	-1.98867	-1.78326	5.884474	6.718989	0.116351	0.995013	-0.00629	-1.0021
RPL31P11	0.103386	-1.65835	-1.58531	2.20171	2.866476	0.194609	0.923059	0.09715	1.031044
RPL9	0.313526	1.01791	1.475732	10.10669	9.545262	0.444783	0.406492	0.838311	1.421084
RPRM	0.000272	3.911356	10.36964	4.055838	0.681544	0.001432	0.286521	1.079187	2.11951
RPS27	0.085682	1.752592	1.486431	10.32108	9.749229	0.172262	0.034166	-2.18782	-2.30552
RPS28	0.82011	0.22858	1.198367	6.405183	6.144114	0.879671	0.461121	0.743669	1.95265
RPS4Y1	0.056571	1.950924	26.94181	4.105877	-0.6459	0.124132	0.040075	2.117097	54.88158
RSPO1	0.092319	-1.71553	-2.64562	1.246894	2.650498	0.179043	0.309376	-1.02869	-1.83675
RTN4RL2	0.009544	-2.69358	-2.1119	6.420299	7.49884	0.028191	6.61E-11	-8.60959	-10.2761
S100P	4.42E-09	7.057246	27.8838	12.66878	7.867428	1.02E-07	1.40E-08	6.974198	49.03067
SCAND3	0.176905	-1.3693	-1.7491	4.613604	5.420216	0.297395	0.229639	-1.2186	-1.86936
SCIN	0.130532	1.536768	1.862854	9.697619	8.800104	0.232056	0.983924	0.020268	1.009526
SEMA5B	0.637143	-0.47454	-1.14618	4.059495	4.256325	0.75747	0.850202	-0.19	-1.05824
SERPINA4	0.033519	2.184869	8.464264	0.000161	-3.08122	0.080445	0.000113	4.249627	192.8821
SERPINB3	0.028721	2.251056	11.28411	2.765106	-0.73112	0.072083	0.001078	3.50599	57.16701
SERPINB4	0.128867	1.543603	5.817687	-0.81434	-3.35478	0.230702	0.000389	3.848757	87.02849
SERPINB5	0.000619	3.649045	12.15069	4.844465	1.241498	0.002972	2.51E-10	8.195296	408.2967
SFRP5	0.112463	-1.61508	-3.92579	0.22788	2.200862	0.206631	0.594246	0.536692	1.513391
SFTPC	0.188599	-1.33256	-2.98887	10.15826	11.73786	0.308178	0.582887	-0.55335	-1.6615
SHISA3	0.000378	-3.80721	-11.6477	3.843309	7.385286	0.001916	0.057915	-1.94838	-4.47502
SLC14A2	5.22E-09	7.011626	157.7584	6.911964	-0.38961	1.11E-07	0.152591	-1.45624	-3.59402
SLC15A1	0.014562	2.529317	9.461623	3.33709	0.095002	0.04023	0.000221	4.033886	59.01975
SLC16A14	5.82E-14	10.23495	15.15737	10.78186	6.859915	1.12E-11	0.095445	1.704813	1.902962

SLC1A7	0.004061	-3.0094	-5.96328	5.629847	8.205953	0.01444	0.00015	-4.15777	-12.1952
SLC25A18	0.009367	2.70072	2.468989	4.250527	2.946607	0.027883	0.67767	-0.41849	-1.12457
SLC2A10	0.626705	0.489331	1.147812	8.084612	7.885726	0.749704	0.000215	4.042263	3.691788
SLC44A5	0.008674	2.729936	4.272053	7.30096	5.20603	0.027507	0.036457	2.159207	3.681964
SLC5A1	0.410601	-0.82965	-1.98554	3.648664	4.638197	0.543692	0.369876	0.906208	2.344515
SLC7A10	0.171637	-1.38646	-3.79937	1.506184	3.431943	0.290347	0.000456	-3.79631	-57.89
SLC7A2	6.79E-11	8.211903	14.4137	12.54049	8.691121	5.21E-09	0.093093	1.717448	2.086812
SLC7A4	0.236926	1.19678	2.132984	2.984565	1.891691	0.363856	0.022111	2.374413	6.838468
SLCO1B3	0.81186	0.239264	1.316166	0.905044	0.508702	0.873261	0.189987	1.331664	6.630822
SMOC1	0.00357	3.055467	6.421717	7.774675	5.091716	0.012932	0.002141	3.266812	7.472656
SOSTDC1	0.586513	-0.54737	-1.55069	2.760448	3.393359	0.721862	0.571267	0.570562	1.504094
SPERT	0.042517	2.080554	9.22386	1.801521	-1.40385	0.098352	0.434092	0.789603	2.661738
SPINK13	0.02495	-2.31035	-9.70364	-1.7155	1.563031	0.063872	0.886739	0.143279	1.152176
SPRR1B	0.057748	-1.94137	-9.13559	-0.77732	2.414182	0.12458	0.222043	1.239063	4.370357
SPTB	5.23E-06	-5.08971	-5.81594	7.697553	10.23757	4.90E-05	8.26E-12	-9.2669	-19.4409
SRXN1	0.005626	2.891221	1.902996	10.84179	9.913514	0.019464	0.000792	3.611155	2.341646
SYT1	0.6293	-0.48564	-1.21413	6.010048	6.289966	0.75047	0.534387	-0.62636	-1.33334
SYT13	0.002544	3.174668	33.14513	5.51816	0.467435	0.009769	0.000153	4.151958	219.2726
TBX18	0.649932	0.456552	1.441637	1.827047	1.299338	0.763495	0.742828	-0.33023	-1.31508
TDRD1	0.107312	1.63927	4.298013	2.351136	0.247466	0.200038	0.885393	-0.14499	-1.15555
TFF1	2.01E-07	6.005063	214.3535	6.386174	-1.35767	3.36E-06	3.24E-11	8.83298	6161.11
THNSL2	0.220073	1.241577	1.494402	9.389208	8.80964	0.343528	0.076312	-1.81622	-2.50272
THPO	0.010495	2.657156	5.596974	5.10041	2.615763	0.030076	0.827843	-0.2188	-1.14197
TMED6	0.000109	4.194804	5.565907	6.677109	4.200492	0.000686	0.170562	-1.39373	-2.25376
TMEM132I	0.255472	-1.15009	-3.09333	2.85464	4.483802	0.381717	0.341694	-0.96146	-2.554
TMEM190	0.379351	0.886798	2.416375	1.802063	0.529218	0.512451	0.070117	1.857358	7.589108
TMLHE	0.405914	-0.83805	-1.21707	5.769416	6.052826	0.541219	0.217369	1.251913	1.440434
TNNI3	0.68294	-0.4108	-1.61711	0.142099	0.83552	0.785177	0.589583	-0.54351	-2.00306
TNNT1	0.003668	-3.04583	-15.2807	3.355214	7.288848	0.013162	0.068186	-1.87082	-6.16284
TRIM15	0.695735	-0.3933	-1.46228	-1.90949	-1.36127	0.79042	6.53E-05	4.423059	97.83285
TRIM16L	0.000694	3.61209	2.476399	7.946668	6.638425	0.003248	0.000149	4.16	3.040554
TRPV6	0.767832	-0.29679	-1.22333	0.706879	0.997688	0.840021	0.006666	2.851164	7.702591
TRY6	0.744026	-0.3283	-1.36922	-2.25023	-1.79688	0.82253	0.000545	3.736479	79.32595
TSIX	0.180621	-1.35743	-4.99909	-0.78151	1.540152	0.300253	0.315203	-1.01623	-3.61925
TSPAN11	1.49E-06	5.445987	7.194658	10.45036	7.603436	1.74E-05	0.595909	-0.53427	-1.21526
UGT1A6	0.131247	1.533851	4.130023	4.389491	2.343341	0.232253	7.45E-08	6.474834	110.7043
UGT8	0.32019	-1.00385	-1.57512	5.489474	6.144939	0.448734	0.346885	0.951068	1.716087
UMODL1	0.30935	1.026821	2.144445	5.202121	4.101517	0.444783	1.89E-05	-4.80933	-22.8888
UPK3BL	0.060028	-1.92334	-2.68115	5.981955	7.404808	0.127353	0.009257	-2.72519	-10.899
USH1C	0.041688	2.08931	6.540378	0.266705	-2.44267	0.097188	5.25E-06	5.199998	494.9516
VANGL2	0.007142	2.802975	2.439849	8.964823	7.678031	0.023441	0.555997	0.593438	1.256161
VIL1	0.179105	1.362253	3.834746	6.309752	4.370621	0.299027	0.305461	1.037155	3.485402
WDR38	0.792034	0.265057	1.296882	1.592984	1.217937	0.861589	0.110833	1.627989	5.352507
WDR72	0.000308	3.872608	10.82608	7.075849	3.63941	0.001598	6.47E-05	4.425629	28.6593
XAGE1D	0.001333	-3.39566	-11.2138	8.630916	12.11811	0.005627	1.01E-08	-7.07368	-48.1778
XIST	0.20276	-1.29032	-5.7729	5.476689	8.005985	0.321638	0.160123	-1.42937	-8.02293
YBX2	0.163	1.415499	3.423822	4.311325	2.535717	0.276956	0.472674	-0.72451	-2.22068



ZFP57	0.009174	-2.70867	-6.24977	0.052274	2.696077	0.027883	0.266577	-1.1256	-1.97825
ZG16B	0.009297	2.703594	3.381735	5.702357	3.944594	0.027883	3.45E-08	6.70447	22.87484
ZIC2	6.54E-05	-4.34977	-55.2279	-3.19672	2.590609	0.000474	0.558263	-0.59002	-1.89631
ZNF229	0.010428	-2.65963	-4.07519	4.237167	6.264033	0.030076	0.757495	-0.31075	-1.13753
ZNF488	0.177353	-1.36786	-1.95614	0.755196	1.723202	0.297395	0.001068	3.509176	7.4823
ZNF695	0.19182	-1.32275	-1.91568	2.600975	3.538834	0.312115	0.0041	-3.03255	-4.82924
ZNF826	2.27E-07	-5.97161	-6.14791	2.869704	5.489801	3.64E-06	0.02584	-2.30856	-2.04597
ZNHIT2	0.00596	-2.87005	-16.4308	2.970019	7.008349	0.020076	0.186829	-1.34141	-2.4948
ZYG11A	0.04176	-2.08854	-4.25803	2.513303	4.603489	0.097188	0.002903	-3.15803	-5.82174

KC	KP	KCMinusKF	KCMinusKL	KCMinusKL	KCMinusKL	KC	KL	KCMinusKLAdjustp
3.947243	7.478601	0.000993	0.76438	-0.30201	-1.16217	3.947243	4.164069	0.886773
6.628187	2.716675	0.000149	0.118731	1.598238	3.883369	6.628187	4.670878	0.22683
9.379594	7.185232	0.041235	0.715635	0.36718	1.335297	9.379594	8.962434	0.861454
4.665531	4.874633	0.713282	0.665152	-0.4364	-1.15198	4.665531	4.869649	0.816033
-1.18051	1.646912	0.169352	0.169121	-1.40321	-5.05052	-1.18051	1.155928	0.291577
1.460021	2.219049	0.574402	0.12468	-1.57209	-3.10955	1.460021	3.096727	0.235847
1.465644	2.218095	0.639809	0.449578	0.764456	2.173795	1.465644	0.345429	0.616564
8.466803	9.685965	0.169331	0.942807	-0.07224	-1.04628	8.466803	8.532067	0.969734
7.763614	6.952969	0.175458	0.022905	-2.37673	-2.30382	7.763614	8.967644	0.063736
7.239154	5.087523	0.004812	2.05E-05	4.898288	19.38796	7.239154	2.962065	0.000281
11.57637	0.837103	3.86E-08	0.000592	3.766865	112.6328	11.57637	4.760892	0.003851
11.47592	7.943936	4.78E-05	0.4168	-0.82144	-1.71673	11.47592	12.25559	0.577802
11.45149	6.07638	4.23E-06	0.841472	-0.20146	-1.16791	11.45149	11.67542	0.916759
7.682963	5.01477	0.017221	0.790292	-0.26792	-1.201	7.682963	7.947201	0.900511
4.993861	2.940923	0.169331	0.023932	2.357899	8.761265	4.993861	1.862722	0.066113
3.392071	0.448937	0.110644	0.538889	-0.62042	-1.72453	3.392071	4.178271	0.706257
4.272876	3.748759	0.705174	0.900991	0.125291	1.107156	4.272876	4.126018	0.953114
8.535284	8.677894	0.864465	0.048434	-2.04292	-2.16624	8.535284	9.650478	0.11204
1.881049	1.234511	0.79919	0.98124	-0.02368	-1.02816	1.881049	1.921112	0.988966
6.670222	6.654012	0.981659	0.932124	-0.08577	-1.03298	6.670222	6.717037	0.967393
2.653369	3.120291	0.795054	0.404999	0.84263	2.442189	2.653369	1.365195	0.571503
9.958795	9.163403	0.141421	4.68E-08	6.882942	8.203025	9.958795	6.922639	4.49E-06
4.555256	5.235591	0.277217	0.753071	0.317004	1.100214	4.555256	4.417473	0.883768
0.758911	2.592256	0.242914	0.702875	-0.38449	-1.37399	0.758911	1.217283	0.848755
5.451911	-1.35808	0.000524	0.035356	2.186571	12.77172	5.451911	1.77703	0.089911
6.453496	-3.74394	1.11E-05	0.000297	4.00487	358.7148	6.453496	-2.0332	0.002388
5.107	3.885381	0.10073	0.002124	3.31056	7.272898	5.107	2.24447	0.009682
6.75647	8.50044	0.004812	0.026925	-2.30688	-2.32058	6.75647	7.970956	0.072812
8.642394	7.389139	0.538511	0.719153	-0.36243	-1.39334	8.642394	9.120945	0.862984
2.198071	0.847023	0.451422	0.927979	-0.09102	-1.09159	2.198071	2.324505	0.967393
7.256988	0.508834	2.40E-07	1.69E-08	7.220274	610.0951	7.256988	-1.9959	2.16E-06
2.63619	2.293844	0.76487	0.235685	-1.206	-1.58536	2.63619	3.300997	0.378674
-1.66464	0.352866	0.289761	0.000331	-3.96778	-200.873	-1.66464	5.985499	0.002517
1.904324	-0.79058	0.08283	0.818974	-0.23054	-1.35292	1.904324	2.340397	0.916759
7.950586	7.871785	0.90998	0.861972	-0.17511	-1.06884	7.950586	8.046632	0.932387
6.624081	7.365226	0.138423	0.019153	-2.45278	-2.03436	6.624081	7.648653	0.055717
3.429682	3.907147	0.594424	0.07699	-1.82059	-2.24248	3.429682	4.594776	0.162441
6.847606	8.811891	0.000403	0.00296	-3.18817	-3.21983	6.847606	8.534591	0.012916
3.669006	-1.61862	0.002189	0.092144	-1.73029	-3.91972	3.669006	5.639757	0.18398
5.561715	5.354814	0.735534	0.001672	-3.39775	-5.73412	5.561715	8.081287	0.008339
1.626731	2.101925	0.864465	9.79E-07	-5.88854	-249.889	1.626731	9.591875	2.69E-05
8.066068	7.064943	0.156541	0.231246	1.217737	1.478187	8.066068	7.502239	0.374676
4.597507	5.737248	0.345756	0.27933	-1.09838	-2.31749	4.597507	5.81007	0.434263
1.395767	0.265532	0.640906	0.006001	-2.9203	-42.3278	1.395767	6.799302	0.023276
-4.04957	-0.0462	0.109869	5.02E-05	-4.60274	-406.396	-4.04957	4.617176	0.000551
4.785116	0.846818	0.00138	0.000332	3.967232	26.23433	4.785116	0.071732	0.002517

5.530647	1.98935	0.000993	0.202603	1.297822	2.080939	5.530647	4.473412	0.338259
3.648044	0.664465	0.124511	0.154399	1.454763	3.609851	3.648044	1.796105	0.277053
1.345704	2.808071	0.249693	0.961411	-0.04872	-1.03967	1.345704	1.401835	0.971531
2.791248	-0.64897	0.122742	0.089498	1.745105	7.030484	2.791248	-0.02238	0.180881
2.57222	3.951442	0.011095	0.028581	-2.28081	-1.91104	2.57222	3.506575	0.07569
2.126896	2.517075	0.775326	0.16195	1.427861	3.159929	2.126896	0.467004	0.28527
0.588839	1.117698	0.775326	0.220462	-1.24697	-3.18891	0.588839	2.261902	0.358717
3.303732	1.287129	0.229215	0.03683	2.168218	11.67404	3.303732	-0.2415	0.091836
1.031664	2.755354	0.174168	9.31E-07	-5.90498	-49.8689	1.031664	6.671731	2.69E-05
3.46144	3.439322	0.986154	0.168336	1.405866	4.003314	3.46144	1.460245	0.291577
3.110194	2.171637	0.439117	0.544806	0.611355	1.583212	3.110194	2.44734	0.711584
5.6804	4.92489	0.648789	0.743002	-0.33041	-1.29407	5.6804	6.052316	0.87684
4.835431	5.894655	0.169231	0.912674	-0.11044	-1.05362	4.835431	4.910782	0.960183
3.410939	4.545704	0.562806	0.886792	-0.14338	-1.12518	3.410939	3.581097	0.945911
0.245489	-2.14425	0.349417	0.007061	-2.85709	-64.4074	0.245489	6.254645	0.02607
5.959417	3.204648	0.10073	0.081921	-1.78968	-2.20657	5.959417	7.101221	0.170041
8.072949	5.115952	2.22E-05	0.02189	2.396119	3.321796	8.072949	6.340985	0.062265
2.787733	1.637242	0.572918	0.138811	1.513786	5.3292	2.787733	0.373814	0.253826
4.059699	3.207219	0.642211	0.292809	1.067598	3.030897	4.059699	2.459954	0.446694
4.385574	2.91703	0.030854	0.492604	-0.69325	-1.35126	4.385574	4.819879	0.659093
5.734967	5.068425	0.471073	3.15E-05	-4.75679	-7.81495	5.734967	8.701204	0.00039
0.172365	-1.88213	0.386317	5.23E-06	-5.34438	-675.528	0.172365	9.572237	0.0001
1.425269	1.533725	0.945212	0.003911	-3.08379	-4.78941	1.425269	3.685118	0.015977
4.902944	4.977291	0.90998	0.048846	-2.03898	-2.06482	4.902944	5.948961	0.112316
-0.80157	-0.25231	0.814291	0.073623	-1.84268	-8.67902	-0.80157	2.315967	0.158826
1.639814	1.675734	0.981659	0.316423	1.015972	2.672202	1.639814	0.221785	0.470954
5.259128	5.713942	0.293874	0.065132	1.902475	1.724673	5.259128	4.472805	0.142919
3.586915	5.41597	0.009036	0.007919	-2.81208	-6.97247	3.586915	6.388586	0.02842
0.757227	1.859701	0.608831	0.520331	-0.6492	-1.82891	0.757227	1.628214	0.686623
2.195918	2.603198	0.803399	0.818097	0.231683	1.19463	2.195918	1.939355	0.916759
6.968823	7.010206	0.945212	0.945404	-0.06896	-1.02414	6.968823	7.003237	0.969734
9.258456	9.377908	0.851457	0.614747	-0.50772	-1.20904	9.258456	9.532317	0.773977
3.652876	3.014134	0.713282	0.022517	-2.38405	-6.18904	3.652876	6.282591	0.063113
-1.99036	-1.31863	0.771887	0.001597	-3.41434	-55.0178	-1.99036	3.791472	0.008178
9.054886	10.77306	0.005799	9.70E-11	-8.99586	-9.63724	9.054886	12.32351	3.73E-08
1.65267	2.493894	0.5759	0.643359	-0.46694	-1.29964	1.65267	2.030785	0.796935
9.73068	6.109846	5.78E-06	0.000217	4.112385	4.24611	9.73068	7.644539	0.001893
7.471922	5.90798	0.443854	0.01074	-2.69084	-4.98338	7.471922	9.789046	0.035249
1.709321	2.431791	0.562806	0.842088	0.200668	1.124274	1.709321	1.540327	0.916759
0.119512	4.008092	0.005524	6.19E-06	-5.28954	-145.1	0.119512	7.300417	0.000113
5.613176	5.276142	0.642211	0.018521	2.466904	2.388574	5.613176	4.357026	0.054708
4.743821	2.350147	0.078812	0.006561	2.885684	6.900225	4.743821	1.957178	0.024701
3.086803	2.911786	0.904317	0.043875	2.088619	5.316374	3.086803	0.67636	0.104496
0.258632	0.139766	0.943158	3.00E-07	-6.27371	-130.264	0.258632	7.283925	1.44E-05
2.534521	0.106465	0.127206	0.331494	0.984389	2.352229	2.534521	1.300492	0.487716
10.52565	10.15724	0.68154	0.011247	-2.67227	-3.69698	10.52565	12.41199	0.036292
4.920723	-2.72089	0.000372	0.471194	0.728213	2.422899	4.920723	3.643989	0.641626

7.537496	4.86466	0.035211	0.016891	-2.50547	-13.7916	7.537496	11.32321	0.051072
-0.40051	-0.63521	0.92492	0.025891	-2.32389	-12.438	-0.40051	3.23618	0.070513
9.031577	11.5568	0.009611	0.636123	-0.47717	-1.28546	9.031577	9.393858	0.791646
8.949102	9.326477	0.629176	0.081737	-1.79081	-1.96615	8.949102	9.924473	0.170041
1.793516	1.087022	0.73039	0.012766	-2.62087	-15.3635	1.793516	5.734955	0.040514
3.865859	2.747936	0.713282	0.956753	-0.05461	-1.07545	3.865859	3.970804	0.971491
7.506309	0.780838	0.000149	0.008216	2.79759	32.05017	7.506309	2.504049	0.028943
6.670417	-0.51412	5.33E-08	0.000341	3.957831	22.47061	6.670417	2.180449	0.002517
2.268057	5.880418	0.001749	0.25296	1.161804	1.622556	2.268057	1.569789	0.398101
2.973501	-0.84177	0.259282	0.994403	-0.00706	-1.01374	2.973501	2.993188	0.994403
3.27439	2.555938	0.649441	0.949331	-0.06399	-1.04251	3.27439	3.334445	0.969734
-2.84826	1.020488	0.063557	0.000543	-3.79682	-101.839	-2.84826	3.821888	0.003595
2.55248	4.604067	0.085743	0.349098	-0.9487	-2.29456	2.55248	3.750696	0.509709
0.253731	0.649133	0.893254	0.951517	-0.06123	-1.07203	0.253731	0.354083	0.969734
7.738916	8.504925	0.272722	0.037943	-2.15479	-2.23098	7.738916	8.896595	0.093398
4.949597	4.575419	0.629176	0.025454	2.331279	2.214429	4.949597	3.802662	0.069816
-0.24128	3.871311	0.015137	0.06044	-1.93846	-9.5486	-0.24128	3.014009	0.134155
1.026641	1.661217	0.775326	0.584172	-0.55228	-1.72163	1.026641	1.810419	0.748996
10.56975	7.95921	1.31E-08	0.241381	-1.19117	-1.41364	10.56975	11.06917	0.384602
3.033617	1.438919	0.220803	0.126437	1.564554	3.256195	3.033617	1.33043	0.236583
5.502061	-0.4453	0.000945	0.020948	2.414842	5.539946	5.502061	3.032189	0.060031
2.265328	2.695714	0.826366	0.001719	3.387805	49.19308	2.265328	-3.35506	0.008461
4.771213	4.533343	0.734646	1.72E-06	-5.70484	-13.3237	4.771213	8.507136	3.89E-05
2.164316	1.084983	0.345621	0.169327	-1.40251	-2.35591	2.164316	3.400602	0.291577
9.583467	9.609507	0.981659	0.407468	0.838167	1.415884	9.583467	9.081764	0.571503
6.716462	6.858882	0.930259	0.002608	3.235149	9.536117	6.716462	3.46306	0.01151
5.798358	6.516639	0.143717	0.092469	-1.72849	-1.61431	5.798358	6.489278	0.18398
0.748336	1.371654	0.795054	0.757187	-0.31154	-1.42722	0.748336	1.261545	0.883768
4.950466	2.001698	0.004812	0.01911	2.45373	4.088272	4.950466	2.918975	0.055717
3.257904	0.769572	0.062818	0.029281	2.2702	7.253875	3.257904	0.399152	0.077013
2.367917	1.526701	0.705174	0.773395	-0.29011	-1.29774	2.367917	2.743919	0.891842
5.563473	4.956577	0.289761	0.684109	0.410174	1.17187	5.563473	5.334661	0.831323
6.594216	1.648646	0.001258	1.90E-05	4.922571	103.982	6.594216	-0.10597	0.000271
6.957559	1.442925	4.08E-05	0.016876	2.505844	6.287417	6.957559	4.305092	0.051072
-0.67046	2.851302	0.041235	0.097188	-1.703	-7.43154	-0.67046	2.2232	0.192371
2.534229	1.234803	0.705174	0.003235	-3.15505	-169.272	2.534229	9.937429	0.01368
3.772347	-0.1136	0.100823	0.010302	2.707572	46.32926	3.772347	-1.7615	0.034103
5.943773	5.697656	0.775326	0.132499	1.539205	1.86687	5.943773	5.043152	0.244613
1.030512	1.664345	0.705106	0.386801	-0.87607	-1.8396	1.030512	1.909906	0.552162
3.704259	1.06367	0.017221	0.022415	2.385991	3.019635	3.704259	2.109885	0.063113
2.731266	3.18877	0.826366	0.000431	3.877138	45.37376	2.731266	-2.77252	0.003008
-5.76209	0.609921	0.000258	0.000104	-4.36015	-205.151	-5.76209	1.918449	0.000999
3.297272	-0.08991	0.13756	0.019744	2.439942	19.71185	3.297272	-1.00372	0.057005
0.337438	-2.58989	0.17837	0.045783	-2.06901	-8.0253	0.337438	3.341994	0.107199
5.950099	3.188769	0.005799	0.833894	-0.21124	-1.16334	5.950099	6.168373	0.916759
0.937031	4.312014	0.015848	0.111478	-1.63162	-3.27364	0.937031	2.647929	0.215114
11.46565	10.45556	0.027524	0.831734	-0.21403	-1.07712	11.46565	11.57283	0.916759

6.063701	5.052422	0.411117	0.990717	0.011716	1.008737	6.063701	6.051151	0.993304
1.672562	-1.98157	0.08283	0.476387	-0.71965	-2.09978	1.672562	2.742802	0.644129
7.823438	-0.79496	3.58E-07	1.25E-07	6.559434	78.95557	7.823438	1.520469	8.01E-06
8.147503	6.760636	0.372307	0.744401	-0.32855	-1.20357	8.147503	8.414827	0.87684
6.312741	0.677773	2.99E-06	6.56E-07	6.018858	130.3258	6.312741	-0.71324	2.10E-05
6.137445	1.773086	0.006997	0.000693	3.71153	30.50903	6.137445	1.20628	0.004095
2.37163	0.270312	0.345621	0.868728	0.166458	1.210091	2.37163	2.096515	0.937055
-1.94796	6.964431	1.00E-06	0.904709	0.120561	1.156215	-1.94796	-2.15737	0.954418
3.941602	3.571657	0.629176	0.007151	-2.8521	-4.85589	3.941602	6.221337	0.026153
6.246508	4.05939	0.010201	0.002123	3.310859	5.148872	6.246508	3.882252	0.009682
-0.27579	-2.64838	0.34325	0.0278	-2.29293	-12.5051	-0.27579	3.36865	0.074652
5.242533	5.206195	0.981659	0.171858	1.394017	2.483414	5.242533	3.930208	0.294614
1.415789	2.943632	0.143721	0.26301	-1.1371	-2.37156	1.415789	2.661626	0.412228
8.486537	10.38071	0.075172	2.56E-06	5.576414	14.51096	8.486537	4.627465	5.17E-05
0.92653	2.175316	0.448781	0.584845	-0.55128	-1.76448	0.92653	1.74577	0.748996
9.250293	5.41603	3.11E-09	0.000297	4.005361	6.822363	9.250293	6.480021	0.002388
7.251596	5.924083	0.306819	1.61E-05	4.978034	41.09395	7.251596	1.890742	0.000257
10.71931	5.683523	0.000247	0.414758	0.825083	1.904328	10.71931	9.790027	0.577055
2.739615	3.618143	0.775326	0.958841	-0.05197	-1.07756	2.739615	2.84739	0.971491
6.121342	5.07531	0.775326	0.795944	0.260524	1.534519	6.121342	5.503555	0.904268
5.906437	5.73927	0.825974	0.075615	1.829514	2.04857	5.906437	4.87182	0.161311
4.791249	1.051445	0.031741	0.587104	-0.54796	-1.32667	4.791249	5.199063	0.748996
6.511398	4.869537	0.289101	0.308121	1.033809	2.885734	6.511398	4.98246	0.462181
2.611522	1.573458	0.473515	0.783578	0.276719	1.345798	2.611522	2.18306	0.895518
4.874948	1.554344	0.036097	0.37279	-0.9025	-2.38557	4.874948	6.12928	0.540194
6.300448	8.23224	0.340911	0.008009	2.80765	9.525877	6.300448	3.048596	0.028475
2.902034	2.542698	0.806541	0.755805	0.313374	1.293633	2.902034	2.530605	0.883768
4.539876	2.806378	0.126392	0.632149	-0.48282	-1.24073	4.539876	4.851062	0.791646
7.854752	7.191799	0.243974	0.2463	1.178573	1.533401	7.854752	7.238017	0.389214
6.505365	3.480943	0.087794	9.90E-05	4.37675	35.6153	6.505365	1.35094	0.000975
6.140371	-1.30583	0.000391	0.001619	3.409398	37.37251	6.140371	0.916466	0.008181
0.920393	3.063535	0.345621	0.104847	-1.66374	-6.82382	0.920393	3.690973	0.204587
5.51172	3.908157	0.175235	0.004044	3.071216	7.254329	5.51172	2.652877	0.016345
1.207812	-2.91224	0.101698	0.885091	0.145547	1.236778	1.207812	0.901226	0.945911
7.480979	6.082397	0.035024	0.288331	1.077713	1.631771	7.480979	6.774541	0.444655
2.987037	0.517934	0.092864	0.508741	0.667449	1.765823	2.987037	2.166696	0.673644
3.532397	0.320198	0.089465	0.466905	0.735326	2.319161	3.532397	2.318794	0.638048
2.516286	2.377504	0.954349	0.293143	-1.06685	-3.89649	2.516286	4.478462	0.446694
1.415477	-1.11065	0.372307	0.501849	-0.67841	-2.39619	1.415477	2.676218	0.669133
-1.83337	-0.62552	0.728432	0.015576	-2.53915	-35.9969	-1.83337	3.336434	0.048235
3.804318	2.240216	0.243974	0.241872	1.189905	2.925606	3.804318	2.255583	0.384602
2.505944	1.801325	0.734646	0.892376	0.136259	1.153555	2.505944	2.299858	0.946608
3.341933	2.095596	0.458959	0.773195	0.290376	1.411579	3.341933	2.844623	0.891842
-3.46948	1.743765	0.005673	0.001868	-3.35747	-38.9674	-3.46948	1.81472	0.008968
11.92335	14.16174	2.28E-07	0.6824	-0.41253	-1.08209	11.92335	12.03717	0.831323
9.726436	11.30557	0.000631	0.63368	0.480641	1.078773	9.726436	9.617045	0.791646
2.108658	0.616755	0.540645	0.653258	-0.45301	-1.80125	2.108658	2.95766	0.80401

-0.2365	3.324993	0.041235	0.00365	-3.10978	-14.2901	-0.2365	3.60045	0.015236
3.975269	1.692416	0.109869	0.056263	1.972566	4.537391	3.975269	1.793406	0.126346
1.566753	6.646994	0.000258	0.242379	1.188599	3.774138	1.566753	-0.34939	0.384602
1.654346	5.10149	0.041571	0.386277	-0.87705	-2.19675	1.654346	2.789717	0.552162
5.646198	0.758152	0.001995	0.047381	-2.05313	-5.51191	5.646198	8.108751	0.110268
3.876364	3.489991	0.634639	0.088323	-1.7518	-4.0684	3.876364	5.900825	0.179451
2.781533	1.383037	0.463535	0.129522	1.551531	4.56497	2.781533	0.590927	0.240273
6.550181	8.033534	0.060034	0.00111	-3.54487	-4.43753	6.550181	8.699939	0.00618
1.926638	5.758319	0.007124	0.04291	2.098821	9.275979	1.926638	-1.28686	0.104288
2.869035	4.055028	0.540645	0.478432	-0.71629	-1.86118	2.869035	3.765253	0.644624
3.616853	3.365629	0.843337	0.777097	0.285238	1.187386	3.616853	3.369064	0.893037
-2.01556	1.83432	0.011095	0.001059	-3.56162	-23.0625	-2.01556	2.511917	0.005983
1.484025	3.465824	0.109869	0.504881	0.67358	1.634163	1.484025	0.775473	0.670845
1.55428	2.365235	0.418873	0.47543	-0.72122	-1.4681	1.55428	2.108235	0.644129
0.470354	5.531588	0.012874	0.302806	-1.0454	-4.23023	0.470354	2.551092	0.459595
8.933036	8.844671	0.893409	0.985141	0.018754	1.005448	8.933036	8.925197	0.990299
1.815555	2.782466	0.444458	0.0053	-2.96817	-8.31727	1.815555	4.871665	0.020766
1.930309	1.804134	0.948497	0.076059	-1.82662	-9.50516	1.930309	5.17902	0.161362
7.904332	5.834144	0.099126	0.156133	-1.4485	-3.15631	7.904332	9.562573	0.278223
0.528317	0.057413	0.851457	0.002054	-3.32284	-89.1095	0.528317	7.005824	0.00962
-1.29068	-2.20359	0.676014	0.003242	-3.15427	-56.2393	-1.29068	4.522824	0.01368
7.035031	-0.55401	3.02E-06	7.67E-05	4.462103	109.3154	7.035031	0.262679	0.000802
0.351005	0.567198	0.943158	0.383724	-0.88182	-2.93012	0.351005	1.901967	0.551873
10.05547	7.39044	1.02E-05	0.028024	2.289425	3.017421	10.05547	8.462155	0.07473
3.067329	1.22027	0.102327	0.325198	-0.99746	-1.48496	3.067329	3.63775	0.482146
5.351523	5.499126	0.884415	0.003111	3.169628	6.82441	5.351523	2.580818	0.013423
8.139567	3.377176	0.029182	0.010258	2.709272	24.99786	8.139567	3.495835	0.034103
5.003521	6.664693	0.252572	0.00038	-3.92069	-15.8394	5.003521	8.988968	0.002701
2.370946	2.101507	0.892954	0.761655	0.305618	1.278332	2.370946	2.016684	0.88629
3.003992	2.899008	0.930259	0.138157	1.516376	2.811102	3.003992	1.512856	0.253826
2.462477	3.502723	0.29421	4.34E-05	-4.65093	-36.4305	2.462477	7.649551	0.000491
0.821115	-3.14586	0.043345	0.305003	-1.04059	-2.83182	0.821115	2.322844	0.461106
0.993055	-0.56851	0.47525	0.930849	-0.08739	-1.11589	0.993055	1.151245	0.967393
5.864057	-0.65507	4.96E-05	0.000233	4.088037	22.40484	5.864057	1.378319	0.001988
8.203993	6.733839	0.094723	0.033069	2.216426	3.261339	8.203993	6.498529	0.084656
8.116693	10.54527	0.029219	0.40417	-0.84413	-1.94271	8.116693	9.074767	0.571503
10.6103	8.886161	5.60E-05	4.31E-05	4.653818	3.427102	10.6103	8.833316	0.000491
8.481817	8.830252	0.538511	0.05247	-2.00551	-1.65817	8.481817	9.211409	0.119656
6.742397	0.620529	2.63E-07	1.45E-06	5.761762	56.83354	6.742397	0.913726	3.70E-05
1.633312	-0.71917	0.143717	0.342751	-0.96143	-2.13852	1.633312	2.729926	0.502352
5.74602	1.888284	4.78E-05	0.00862	2.778599	5.950847	5.74602	3.172925	0.030091
6.10847	5.805571	0.68154	0.003775	-3.09715	-2.57573	6.10847	7.473453	0.015587
2.114136	3.564074	0.345621	0.159949	1.434892	2.897521	2.114136	0.579317	0.283044
6.24144	0.842668	0.000266	0.000199	4.141869	47.73315	6.24144	0.66452	0.001776
6.269411	6.004978	0.668895	0.088009	-1.75361	-2.12931	6.269411	7.359798	0.179451
6.632191	6.86277	0.823081	0.585806	0.549868	1.30964	6.632191	6.243021	0.748996
8.057167	1.788425	0.000741	0.409366	-0.83475	-2.22936	8.057167	9.213799	0.571624

5.382022	5.133178	0.5046	0.001812	-3.3686	-4.47266	5.382022	7.543154	0.008808
11.05506	3.578414	2.89E-06	0.00777	2.819561	10.53675	11.05506	7.657707	0.028148
9.078906	7.661597	0.45712	0.03022	2.256307	5.28227	9.078906	6.677748	0.078943
14.50867	9.408739	0.000589	0.837421	0.206684	1.125498	14.50867	14.33811	0.916759
8.498781	2.478917	0.000391	0.043184	2.095908	11.32085	8.498781	4.997871	0.104293
8.987738	8.579597	0.556328	0.522286	0.646142	1.288363	8.987738	8.622199	0.686841
0.992649	5.689322	0.002416	0.017238	-2.49698	-4.5485	0.992649	3.178041	0.051714
9.318637	5.243479	0.000768	0.008897	2.766049	4.748922	9.318637	7.071037	0.030505
5.024165	0.726979	0.002944	0.000335	3.963855	66.45587	5.024165	-1.03016	0.002517
-0.86917	0.422161	0.412513	0.000537	-3.80055	-40.0753	-0.86917	4.455469	0.003595
7.569256	7.371983	0.770985	0.952057	-0.06054	-1.02184	7.569256	7.600431	0.969734
3.775889	2.311195	0.005799	0.698656	-0.39024	-1.20961	3.775889	4.050426	0.846322
3.113702	1.233632	0.143717	0.05285	2.002116	5.954949	3.113702	0.539613	0.119656
8.832992	11.93364	2.63E-07	2.96E-05	-4.7769	-6.2899	8.832992	11.48603	0.00038
4.821108	4.953669	0.893409	0.03097	2.245495	2.760442	4.821108	3.356209	0.080355
7.121117	7.89085	0.523785	0.646594	-0.46238	-1.36031	7.121117	7.565048	0.798367
6.472517	8.426078	0.050381	0.143318	1.496198	2.054381	6.472517	5.433814	0.260047
3.191145	1.068952	0.181507	0.045449	2.072389	6.635668	3.191145	0.460904	0.10707
6.742776	7.523904	0.102327	0.123386	-1.57769	-1.60366	6.742776	7.424141	0.234555
4.207459	4.079918	0.812496	0.220162	-1.2478	-1.95021	4.207459	5.171088	0.358717
4.731136	-0.62234	0.001465	0.000522	3.810587	56.68623	4.731136	-1.09379	0.003579
10.88992	11.4077	0.298892	4.61E-07	-6.13322	-8.51837	10.88992	13.9805	1.77E-05
2.466478	4.273463	0.087794	1.30E-05	-5.04669	-44.7738	2.466478	7.951061	0.000227
0.641052	3.289564	0.08283	0.729001	-0.34916	-1.43259	0.641052	1.15968	0.868699
-3.34015	2.707656	5.75E-05	0.004411	-3.03823	-23.8334	-3.34015	1.234763	0.017645
0.681187	1.910236	0.445127	0.108634	-1.6452	-3.71414	0.681187	2.574215	0.210683
5.050146	5.288996	0.761235	0.052973	2.001028	2.038483	5.050146	4.022651	0.119656
6.745813	4.763615	0.444458	0.01142	-2.6661	-9.18755	6.745813	9.945493	0.036544
2.008778	-0.67356	0.252572	0.327828	-0.99198	-3.081	2.008778	3.632174	0.484177
0.845518	1.320295	0.73039	1.16E-07	-6.58548	-52.346	0.845518	6.555525	8.01E-06
-3.40438	-1.69917	0.545527	0.004748	-3.01028	-92.0473	-3.40438	3.119925	0.018794
6.23294	6.48986	0.775326	0.669832	0.429899	1.179291	6.23294	5.99502	0.819157
5.778069	6.301909	0.632652	0.211421	-1.27231	-1.81354	5.778069	6.636877	0.348436
10.30232	9.479261	0.046879	1.78E-05	-4.94394	-2.46785	10.30232	11.60558	0.000267
10.10527	9.374946	0.252572	0.080264	-1.79988	-1.7499	10.10527	10.91254	0.168424
4.632564	0.633143	0.036829	0.00099	3.585814	48.98699	4.632564	-0.98176	0.005673
8.91507	8.401244	0.169331	0.000299	-4.00338	-2.61079	8.91507	10.29956	0.002388
10.47999	10.95831	0.573306	0.013551	2.596506	2.129141	10.47999	9.389717	0.042305
8.861971	5.706489	0.001113	0.007059	2.8572	5.930333	8.861971	6.293858	0.02607
9.613454	10.01688	0.198393	0.002143	-3.30735	-2.57131	9.613454	10.97596	0.009682
0.247102	3.069129	0.015492	0.489032	-0.69902	-2.01762	0.247102	1.259757	0.656603
4.417277	0.163883	0.000863	0.037932	2.154919	6.121234	4.417277	1.803454	0.093398
3.329339	2.924527	0.771887	0.085707	1.766991	3.017947	3.329339	1.735772	0.176944
4.762363	4.522502	0.788342	0.032927	2.218343	3.840591	4.762363	2.821035	0.084656
-2.40432	0.909481	0.096858	0.092277	-1.72955	-7.88679	-2.40432	0.575121	0.18398
-3.0179	0.084056	0.189735	0.009817	-2.72686	-24.058	-3.0179	1.570547	0.033068
6.557539	3.187726	0.004812	0.447379	0.768199	1.914841	6.557539	5.620314	0.615748

3.303824	3.59427	0.905564	0.312369	-1.02464	-3.18461	3.303824	4.974941	0.46673
3.854036	2.634067	0.439117	0.843309	-0.19909	-1.20621	3.854036	4.124515	0.916759
7.83865	6.800956	0.553953	0.366605	0.914372	1.958084	7.83865	6.869208	0.533244
8.872619	4.598035	3.11E-09	3.89E-07	6.188548	18.35876	8.872619	4.674222	1.66E-05
0.934512	1.534021	0.73039	0.609723	-0.51497	-1.47695	0.934512	1.497132	0.770177
6.089492	-1.30948	4.39E-05	4.32E-05	4.652348	105.0183	6.089492	-0.625	0.000491
3.289871	3.523182	0.905564	0.732965	0.343843	1.346033	3.289871	2.861157	0.868699
6.935504	2.729562	0.000779	2.19E-05	4.876549	67.33468	6.935504	0.862226	0.00029
0.760594	2.188632	0.386317	0.37905	-0.89061	-2.25132	0.760594	1.931365	0.547201
5.066135	4.798927	0.783014	0.951394	0.061382	1.032064	5.066135	5.020604	0.969734
9.40276	9.972436	0.345756	0.395313	0.860307	1.371724	9.40276	8.94677	0.562223
6.046777	5.121391	0.345621	0.779082	-0.28263	-1.17848	6.046777	6.283706	0.893037
3.016113	1.949798	0.476528	0.876311	-0.15676	-1.09551	3.016113	3.147721	0.942587
9.99057	7.294893	9.53E-05	0.001259	3.500041	3.945404	9.99057	8.010397	0.006714
7.738373	8.664003	0.236076	0.17854	-1.37204	-1.59831	7.738373	8.414918	0.304708
6.79787	-1.23577	0.000266	0.00015	4.238212	382.9689	6.79787	-1.78321	0.001368
5.703627	2.788911	1.01E-06	1.95E-06	5.664743	6.855432	5.703627	2.926379	4.16E-05
4.560786	4.207945	0.561979	0.000911	-3.61502	-7.92051	4.560786	7.546379	0.005303
2.58114	1.53204	0.652045	0.072221	1.852131	9.630828	2.58114	-0.68652	0.157574
-0.86816	-0.4677	0.872166	0.125824	-1.56717	-6.58643	-0.86816	1.851333	0.236583
0.712683	1.913402	0.38496	0.166731	-1.41133	-3.14553	0.712683	2.365988	0.291577
4.53597	1.517046	0.011095	0.830935	0.215059	1.224641	4.53597	4.243611	0.916759
1.641337	2.105964	0.574402	2.83E-07	-6.29281	-7.87662	1.641337	4.618914	1.44E-05
1.015646	2.199584	0.545527	0.925948	0.093597	1.114957	1.015646	0.858658	0.967393
6.715962	6.718989	0.995013	0.087198	1.758292	1.779519	6.715962	5.884474	0.179058
2.910583	2.866476	0.945212	0.167777	1.407765	1.634527	2.910583	2.20171	0.291577
10.05225	9.545262	0.573306	0.930788	-0.08746	-1.03846	10.05225	10.10669	0.967393
1.765274	0.681544	0.451422	0.000615	-3.75335	-4.89247	1.765274	4.055838	0.003937
8.544136	9.749229	0.092864	0.000635	-3.74215	-3.427	8.544136	10.32108	0.003998
7.109547	6.144114	0.629176	0.556278	0.593923	1.629426	7.109547	6.405183	0.724104
5.132353	-0.6459	0.101913	0.732161	0.344921	2.037042	5.132353	4.105877	0.868699
1.773347	2.650498	0.473515	0.637027	0.475891	1.440384	1.773347	1.246894	0.791646
4.137616	7.49884	5.08E-09	1.53E-05	-4.99326	-4.86582	4.137616	6.420299	0.000256
13.48304	7.867428	3.58E-07	0.199345	1.307463	1.758393	13.48304	12.66878	0.334272
4.517673	5.420216	0.385071	0.88957	-0.13984	-1.06875	4.517673	4.613604	0.946246
8.813782	8.800104	0.986493	0.204039	-1.29361	-1.84528	8.813782	9.697619	0.339181
4.174658	4.256325	0.904369	0.823763	0.224337	1.083098	4.174658	4.059495	0.916759
4.510352	-3.08122	0.000768	0.013108	2.610078	22.78782	4.510352	0.000161	0.041259
5.105996	-0.73112	0.004812	0.187297	1.344191	5.06615	5.105996	2.765106	0.318239
3.088634	-3.35478	0.002018	0.040096	2.129784	14.95929	3.088634	-0.81434	0.098069
9.914972	1.241498	1.38E-08	5.34E-07	6.085938	33.60275	9.914972	4.844465	1.86E-05
2.798647	2.200862	0.73039	0.143567	1.495239	5.941251	2.798647	0.22788	0.260047
11.00538	11.73786	0.724365	0.594085	0.537711	1.798901	11.00538	10.15826	0.755393
5.223392	7.385286	0.137279	0.009309	2.748052	2.602833	5.223392	3.843309	0.031635
-2.23521	-0.38961	0.289101	4.17E-09	-7.69049	-566.986	-2.23521	6.911964	8.00E-07
5.978128	0.095002	0.001247	0.036192	2.176081	6.237804	5.978128	3.33709	0.090834
7.788161	6.859915	0.197048	1.81E-05	-4.93906	-7.96515	7.788161	10.78186	0.000267



4.597708	8.205953	0.000945	0.269288	-1.12201	-2.04505	4.597708	5.629847	0.420352
2.777234	2.946607	0.783014	0.058058	-1.95765	-2.77655	2.777234	4.250527	0.129618
9.770046	7.885726	0.001233	0.001463	3.445974	3.21637	9.770046	8.084612	0.007593
7.086506	5.20603	0.096858	0.800899	-0.25405	-1.16026	7.086506	7.30096	0.907213
5.867486	4.638197	0.540645	0.103759	1.669169	4.655131	5.867486	3.648664	0.204326
-2.4233	3.431943	0.002302	0.017985	-2.47924	-15.2368	-2.4233	1.506184	0.053535
9.752421	8.691121	0.19323	0.000135	-4.27265	-6.90704	9.752421	12.54049	0.001265
4.665364	1.891691	0.065311	0.044084	2.086433	3.206056	4.665364	2.984565	0.104496
3.23789	0.508702	0.340911	0.306399	1.03755	5.037981	3.23789	0.905044	0.4614
7.993337	5.091716	0.008746	0.845137	0.19674	1.163654	7.993337	7.774675	0.916759
3.982254	3.393359	0.713282	0.407791	0.837584	2.332387	3.982254	2.760448	0.571503
0.008519	-1.40385	0.59961	0.291721	-1.07005	-3.46535	0.008519	1.801521	0.446694
1.767392	1.563031	0.925293	0.035693	2.182316	11.1803	1.767392	-1.7155	0.090171
4.541933	2.414182	0.375615	0.006177	2.909131	39.92579	4.541933	-0.77732	0.023718
5.956544	10.23757	3.11E-09	0.002292	-3.28266	-3.34269	5.956544	7.697553	0.010235
11.14104	9.913514	0.0038	0.575569	0.565013	1.230505	11.14104	10.84179	0.74417
5.874923	6.289966	0.688606	0.845085	-0.19681	-1.09819	5.874923	6.010048	0.916759
8.244017	0.467435	0.000945	0.113497	1.622155	6.615531	8.244017	5.51816	0.217914
0.904185	1.299338	0.826366	0.571235	-0.57147	-1.89587	0.904185	1.827047	0.741061
0.038891	0.247466	0.925293	0.1565	-1.44718	-4.96655	0.038891	2.351136	0.278223
11.2313	-1.35767	3.11E-09	0.001959	3.340223	28.74276	11.2313	6.386174	0.009286
7.486142	8.80964	0.169231	0.001138	-3.53614	-3.74007	7.486142	9.389208	0.006243
2.424235	2.615763	0.892954	0.016229	-2.52212	-6.39159	2.424235	5.10041	0.049855
3.028158	4.200492	0.310406	0.000656	-3.73072	-12.5442	3.028158	6.677109	0.004
3.131044	4.483802	0.512541	0.844608	0.197422	1.211172	3.131044	2.85464	0.916759
3.453149	0.529218	0.156541	0.28588	1.083296	3.1407	3.453149	1.802063	0.442652
6.57933	6.052826	0.372307	0.074037	1.839916	1.753107	6.57933	5.769416	0.158829
-0.16669	0.83552	0.728432	0.881344	-0.15033	-1.23867	-0.16669	0.142099	0.945352
4.665254	7.288848	0.15402	0.424937	0.807051	2.479483	4.665254	3.355214	0.586963
5.250978	-1.36127	0.000491	8.86E-05	4.414119	143.0587	5.250978	-1.90949	0.000895
8.242759	6.638425	0.000945	0.603039	0.524656	1.227813	8.242759	7.946668	0.764247
3.943032	0.997688	0.023484	0.00145	3.44917	9.422784	3.943032	0.706879	0.007593
4.512845	-1.79688	0.002685	0.001186	3.521353	108.6143	4.512845	-2.25023	0.006415
-0.31554	1.540152	0.476528	0.816431	0.233844	1.38125	-0.31554	-0.78151	0.916759
7.322169	7.603436	0.73039	1.56E-06	-5.73657	-8.74339	7.322169	10.45036	3.75E-05
9.133908	2.343341	1.43E-06	0.006293	2.901908	26.80476	9.133908	4.389491	0.023925
6.924062	6.144939	0.518303	0.104957	1.663191	2.703051	6.924062	5.489474	0.204587
-0.41505	4.101517	0.000181	0.000672	-3.72253	-49.0838	-0.41505	5.202121	0.00403
3.958688	7.404808	0.03118	0.232555	-1.21426	-4.06503	3.958688	5.981955	0.375215
6.508474	-2.44267	5.75E-05	0.000362	3.936988	75.6763	6.508474	0.266705	0.002624
8.007053	7.678031	0.705174	0.073591	-1.84289	-1.94231	8.007053	8.964823	0.158826
6.171946	4.370621	0.471073	0.936692	-0.07999	-1.10023	6.171946	6.309752	0.969514
3.638151	1.217937	0.225185	0.206705	1.285851	4.127211	3.638151	1.592984	0.342132
8.480342	3.63941	0.000491	0.151845	1.464098	2.647246	8.480342	7.075849	0.27375
6.527816	12.11811	2.76E-07	0.189658	-1.33685	-4.29632	6.527816	8.630916	0.32083
5.001855	8.005985	0.295612	0.844304	-0.19781	-1.38976	5.001855	5.476689	0.916759
1.384718	2.535717	0.634639	0.043567	-2.09186	-7.6032	1.384718	4.311325	0.104496

1.711854	2.696077	0.435598	0.126917	1.562511	3.159244	1.711854	0.052274	0.236583
8.460283	3.944594	7.80E-07	0.000651	3.733594	6.764233	8.460283	5.702357	0.004
1.667411	2.590609	0.705174	0.011006	2.680992	29.12382	1.667411	-3.19672	0.035816
6.078134	6.264033	0.838265	0.06324	1.916709	3.582501	6.078134	4.237167	0.139563
4.626684	1.723202	0.004812	7.73E-05	4.459582	14.63639	4.626684	0.755196	0.000802
1.267037	3.538834	0.015137	0.215402	-1.26105	-2.5209	1.267037	2.600975	0.35348
4.457015	5.489801	0.075172	0.008881	2.766772	3.004888	4.457015	2.869704	0.030505
5.689424	7.008349	0.338407	0.19929	1.307625	6.586015	5.689424	2.970019	0.334272
2.062038	4.603489	0.011095	0.732676	-0.34423	-1.36724	2.062038	2.513303	0.868699