

Final Project Document

Duyen Ho, Michael Garbus, Christina Hu

10/28/2021

Project Description and Summary (NEED GOAL, APPROACH, and CONCLUSION AND THIS NEEDS TO BE ONE PAGE?!?)

The goal of this project is to find the most accurate model using a variety of statistical model building techniques in order to predict medical outcomes relating to breast cancer. We will use the BRCA Multi-Omics (TCGA) data from Kaggle, and predict outcomes for the `PR.Status`, `ER.Status`, `HER2.Final.Status`, and `histological.type`. For our approach, we will first perform the necessary data cleaning operations, then [method 1] and [method2] to build classification models for `PR.Status` and [method1] and [method2] for `histological.type`, using classification error and AUC respectively as the evaluation criteria. Next, we will use [method] to build a model with the goal of accurately predicting **all four** outcomes. Finally, [INSERT CONCLUSION HERE].

- can include any difficulties or describe outcomes for models

```
library(dplyr)
```

```
##
```

```
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
```

```
##
```

```
##      filter, lag
```

```
## The following objects are masked from 'package:base':
```

```
##
```

```
##      intersect, setdiff, setequal, union
```

```
brca_data = read.csv("https://raw.githubusercontent.com/mgarbvs/STAT-432-final-project/main/cl")
```

```
# remove X.1 and X columns
```

```
brca_data = brca_data %>% select(-c("X.1", "X"))
```

```
head(brca_data, 10)
```

```
##      rs_CLEC3A      rs_CPB1 rs_SCGB2A2 rs_SCGB1D2      rs_TFF1  rs_MUCL1      rs_GSTM1
```

## 1	0.8928184	6.5801033	14.123672	10.606501	13.1892374	6.649466	10.5203345
## 2	0.0000000	3.6913108	17.116090	15.517231	9.8676160	9.691667	8.1795215
## 3	3.7481499	4.3752550	9.658123	5.326983	12.1095391	11.644307	10.5173296
## 4	0.0000000	18.2355185	18.535480	14.533584	14.0789925	8.913760	10.5574647
## 5	0.0000000	4.5837237	15.711865	12.804521	8.8816692	8.430028	12.9646066
## 6	0.6028369	1.0266584	9.248794	5.095713	0.0000000	6.085525	7.7737478
## 7	5.6543124	2.8420737	8.231955	7.062477	7.2857055	8.490481	0.0000000
## 8	2.3709454	0.4304994	0.000000	2.635987	0.7617108	2.788999	5.4519199
## 9	0.0000000	0.6035967	2.213130	1.027933	1.8470749	0.000000	5.9492338
## 10	0.0000000	8.1872872	5.250765	3.058923	10.2939666	0.000000	0.4930324
##	rs_PIP	rs_ADIPOQ	rs_ADH1B	rs_S100A7	rs_HMGCS2	rs_CYP2B7P1	rs_ANKRD30A
## 1	10.338490	10.248379	10.229970	0.0000000	7.9046093	8.754801	9.681176
## 2	7.911723	1.289598	1.818891	0.4448791	1.2895984	5.698288	7.885523
## 3	5.114925	11.975349	11.911437	4.1260560	9.3833794	8.630913	9.610310
## 4	13.304434	8.205059	9.211476	0.0000000	4.3479916	7.836265	9.732374
## 5	6.806517	4.294341	5.385714	0.8418926	6.1115697	7.701901	10.759198
## 6	11.080776	6.916635	7.935318	8.6711483	5.8463755	4.665484	0.000000
## 7	6.823051	5.907011	6.793263	6.2878176	2.7623063	2.390172	4.593306
## 8	2.552943	7.388579	6.464041	0.4304994	1.6259250	1.453491	0.000000
## 9	1.622087	1.027933	0.000000	0.0000000	1.8470749	1.847075	0.000000
## 10	0.000000	9.300252	9.766249	0.0000000	0.8598106	10.320869	10.693062
##	rs_PRAME	rs_TAT	rs_SERPINA6	rs_AGR3	rs_TFAP2B	rs_CYP4Z1	rs_DHRS2
## 1	9.363258	2.146395	1.4402081	12.8062722	11.675896	2.618427	8.3757172
## 2	1.818891	2.415164	0.0000000	9.7985024	11.575206	3.039682	11.5046951
## 3	4.733674	16.173177	6.7910248	7.7283654	8.290137	2.776694	16.1894747
## 4	9.069201	2.974217	2.9742172	11.1906014	3.666688	1.386094	4.7452104
## 5	1.370053	2.795538	8.4805103	11.2354539	11.450052	10.795992	14.1196321
## 6	11.487244	2.039840	0.6028369	0.0000000	6.074463	9.990951	1.0266584
## 7	8.209576	8.075750	0.0000000	4.6608488	6.309025	2.762306	2.2799170
## 8	11.821034	1.625925	0.0000000	0.4304994	5.713278	0.000000	0.4304994
## 9	8.118521	2.366364	0.0000000	0.0000000	0.000000	5.545975	5.6541233
## 10	1.945570	1.394898	1.6026944	11.8005372	9.364972	5.052494	9.0145637

##	rs_KCNJ3	rs_MYBPC1	rs_C4orf7	rs_KRT14	rs_MUC6	rs_UGT2B11	rs_GABRP
## 1	0.8928184	6.437639	6.056274	12.5348840	10.2097588	3.878617	7.533045
## 2	3.2182387	8.544378	6.833406	11.6219124	0.7843365	8.881055	9.883700
## 3	4.9876392	2.328779	2.613815	11.8206888	0.0000000	1.068602	8.652057
## 4	4.3762904	5.464894	2.442997	9.6514597	5.4382962	3.046439	7.524791
## 5	1.7558276	5.099316	6.354454	9.4952185	4.6306268	4.719441	7.295552
## 6	0.6028369	5.806822	17.680023	8.7874827	1.3538878	0.000000	14.546592
## 7	2.1605653	9.744704	16.707036	11.4526397	8.1579148	0.470615	12.992628
## 8	0.4304994	5.146729	7.101317	10.8453526	1.4534912	0.000000	14.301986
## 9	0.0000000	6.293015	2.366364	9.3726564	0.0000000	0.000000	13.610573
## 10	5.9941701	1.784295	2.090616	0.4930324	8.5617034	0.000000	6.643882

##	rs_SOX10	rs_SLC30A8	rs_STAC2	rs_VSTM2A	rs_COL2A1	rs_KRT5	rs_TUSC5
## 1	8.279545	8.7901337	10.540809	7.265341	7.131664	12.639518	7.305826
## 2	8.374239	0.7843365	9.061837	0.000000	3.880078	11.379258	0.000000
## 3	6.592058	3.8972695	6.635168	3.022492	11.648423	12.322540	9.238884
## 4	5.397454	1.7742494	6.043347	0.000000	5.503896	9.735108	4.889644
## 5	4.653519	2.3109217	5.465498	3.393512	3.498391	9.354743	2.795538
## 6	12.169065	1.0266584	7.869648	0.000000	3.295341	7.192078	4.219935
## 7	7.431422	0.4706150	9.416209	1.550063	3.778902	13.066285	4.003647
## 8	12.670116	2.8598106	11.761590	0.000000	10.509098	13.287832	4.997672
## 9	12.935384	0.0000000	8.669900	0.000000	4.753679	11.600758	0.000000
## 10	1.394898	6.0484629	1.394898	3.894575	12.455744	2.558023	7.357253

##	rs_CEACAM5	rs_CALML5	rs_GP2	rs_GSTT1	rs_LEP	rs_FABP7	rs_C1orf64
## 1	2.8926047	5.1750894	10.4901429	0.5144000	4.514034	2.7157177	11.5537498
## 2	5.2139421	4.5026616	7.7075241	9.3362381	0.000000	4.9863199	8.3328234
## 3	8.5725039	9.8595803	4.0324095	3.9322596	10.124532	3.7868995	7.3459170
## 4	15.6571121	6.6061402	7.3068583	10.2633142	1.774249	2.0797706	10.8747911
## 5	4.7837290	6.3474513	7.7317867	9.0931968	1.130008	0.4815056	10.7710224
## 6	4.2980864	11.3891025	0.6028369	0.6028369	2.502840	7.9863734	1.0266584
## 7	1.5500634	6.3229917	3.3030501	8.3543067	2.279917	11.4958568	4.4732024
## 8	0.0000000	11.7072643	1.9191112	9.2030257	4.450492	9.7848988	0.4304994
## 9	0.6035967	7.7345443	0.0000000	0.0000000	2.504849	10.1427418	0.0000000

## 10	5.2036906	0.4930324	4.2730459	9.4912118	6.552909	0.8598106	10.6410080
##	rs_CRABP1	rs_FABP4	rs_KRT6B	rs_KLK11	rs_CST9	rs_CST1	rs_PIGR
## 1	4.6183679	9.310698	8.8583053	11.622206	1.8360857	10.461061	7.109456
## 2	5.6367870	3.474086	9.0061799	1.488412	0.4448791	7.803937	7.088217
## 3	2.3287790	11.459524	9.4177359	2.697551	3.1179942	9.113967	6.022692
## 4	3.1808798	7.364504	5.9045010	1.144242	2.8981890	6.086809	7.118659
## 5	4.3514587	6.144263	7.0631340	2.620727	7.0372581	9.903603	7.213202
## 6	10.1724379	7.998128	8.8967029	6.731869	0.0000000	8.687575	10.289464
## 7	5.8598876	6.487041	8.0736864	4.746248	0.0000000	3.737784	10.634014
## 8	14.7092297	7.475712	6.9143373	2.927328	0.0000000	7.455847	2.370945
## 9	12.4853796	3.371824	11.9314477	0.000000	0.0000000	6.438383	2.504849
## 10	0.8598106	11.247954	0.4930324	0.000000	10.6006968	11.295498	1.784295
##	rs_CIDEA	rs_SYT13	rs_KLK5	rs_OLFM4	rs_HOXB13	rs_LTF	rs_TFF3
## 1	7.8003376	4.146305	7.760989	6.189267	2.5140970	10.219641	13.849524
## 2	0.4448791	3.949171	8.111446	5.626279	0.0000000	11.232154	11.589648
## 3	9.3096173	10.090086	8.306898	2.697551	0.4497462	7.810588	10.077443
## 4	4.6087442	12.634136	4.909144	2.211293	0.0000000	12.975535	16.420502
## 5	1.2811344	7.473329	5.257105	4.485079	3.9319761	8.387990	10.316920
## 6	5.6957127	6.745880	9.221477	10.150221	1.3538878	14.484815	5.461064
## 7	3.4629684	2.160565	6.064943	5.770985	4.4980338	17.796624	8.282862
## 8	4.8314263	5.934474	7.481338	1.919111	9.1252063	7.193312	1.453491
## 9	3.1363883	9.192224	11.573226	2.631221	7.4037236	5.162279	3.136388
## 10	7.3644043	12.187940	1.602694	1.151989	0.0000000	11.238984	10.649449
##	rs_MUC5B	rs_BMPRI1B	rs_CEACAM6	rs_TCN1	rs_SLC34A2	rs_CRISP3	rs_CLCA2
## 1	9.431978	8.961093	6.5207617	5.208903	5.746678	3.3214231	6.6678183
## 2	6.303945	9.164374	6.6792535	6.767980	8.075198	2.5983890	10.1999062
## 3	6.883319	8.187072	8.5430956	2.851719	6.640468	2.8517191	4.5202902
## 4	12.010550	14.149194	18.3298913	8.053380	6.308618	7.0144725	0.8535167
## 5	2.059909	10.259790	7.3279316	4.172848	4.630627	6.4025431	6.0351840
## 6	7.319344	3.633524	8.9231486	6.427308	11.294559	8.4642533	7.1293253
## 7	10.824312	6.731774	6.2222617	3.651867	11.895029	5.0106859	4.6161753
## 8	12.815764	9.294545	0.4304994	0.000000	8.567333	0.4304994	4.9002389

## 9	9.718820	6.497649	1.3553546	6.554575	7.312362	2.5048492	5.3758978
## 10	2.454597	13.764188	5.9849197	4.332601	0.000000	2.0906163	1.6026944
##	rs_AGR2	rs_ABCC11	rs_GRIA2	rs_KRT17	rs_NPY1R	rs_C20orf114	rs_DSG3
## 1	14.534077	11.120876	0.8928184	11.670787	9.155700	7.8440309	8.3663834
## 2	11.003313	13.253582	2.5983890	11.270201	5.971707	9.4627247	9.1405693
## 3	13.154467	7.393773	0.4497462	11.943948	9.463305	11.0590752	8.7582475
## 4	13.413434	8.978652	10.7132678	9.053951	11.232326	8.3636586	4.8896439
## 5	12.248138	9.248804	4.7628272	9.631171	9.833915	8.8780291	6.6950877
## 6	1.845350	3.134237	2.6291701	9.890466	9.513277	1.0266584	3.3696200
## 7	8.422379	5.503037	1.1090262	10.909795	5.189038	4.1980540	6.4556905
## 8	2.788999	3.756863	6.6353060	11.561016	5.344892	0.7617108	6.3518156
## 9	1.355355	0.000000	3.4424658	13.063663	11.697815	1.6220870	4.6380275
## 10	13.535010	4.573811	0.0000000	4.523587	10.724320	8.8510816	0.8598106
##	rs_OBP2B	rs_KIF1A	rs_CYP4F8	rs_TNNT1	rs_LRP2	rs_PROM1	rs_PVALB
## 1	3.4959126	2.806881	5.1049866	4.592983	9.228598	6.860970	3.920036
## 2	0.4448791	3.101684	4.7742125	4.735620	12.110205	8.371095	5.493795
## 3	1.3005338	1.300534	5.8504669	8.669012	9.729484	7.662167	1.500292
## 4	0.8535167	0.000000	1.3860936	4.510025	13.090098	6.025587	12.631387
## 5	5.2420804	1.575796	5.3299667	8.349955	11.951210	10.342679	3.393512
## 6	5.9708997	3.856538	0.6028369	0.000000	7.436288	12.797616	1.353888
## 7	5.5393791	2.279917	0.4706150	7.033041	10.933886	10.678147	2.588205
## 8	1.7799321	10.670165	0.0000000	5.604062	11.848774	11.863524	0.000000
## 9	8.0034763	11.541894	0.0000000	4.181508	0.000000	11.784296	0.000000
## 10	0.8598106	0.000000	2.3431520	4.006693	9.796307	8.590960	8.612144
##	rs_FAM5C	rs_ETF5	rs_GFRA1	rs_CYP2A6	rs_PGR	rs_CGA	rs_GPD1
## 1	0.5144000	9.116151	14.487078	2.5140970	12.787348	0.0000000	8.897714
## 2	6.2501980	5.921013	8.041977	0.0000000	12.176893	0.0000000	1.488412
## 3	6.0468403	4.520290	11.307703	7.0156392	11.885023	9.3037839	10.030279
## 4	0.4889263	5.205752	8.493677	2.2112926	13.033314	0.4889263	5.824595
## 5	0.0000000	2.190868	14.324104	0.4815056	14.057517	0.4815056	4.903149
## 6	9.5734429	12.356237	7.328684	0.6028369	4.509962	1.0266584	6.181437
## 7	1.5500634	10.944653	9.465836	0.4706150	6.972303	0.0000000	5.027844

## 8	1.7799321	12.492772	10.372347	0.4304994	4.116331	0.4304994	6.189453
## 9	0.0000000	11.888995	9.145342	1.3553546	3.136388	0.0000000	2.631221
## 10	0.0000000	2.343152	14.570822	2.6545272	7.055308	5.5432020	8.777982
##	rs_VGLL1	rs_PLIN1	rs_CP	rs_KCNC2	rs_MUC16	rs_KRT6A	rs_ALB
## 1	1.6516832	9.482964	5.303492	2.9735194	2.715718	4.514034	2.4016305
## 2	5.2554516	2.974878	6.555482	0.0000000	4.811800	4.305963	6.9090578
## 3	3.3937868	10.926799	11.132440	1.0686020	6.842515	4.565567	10.1136177
## 4	2.3317912	6.759052	4.898842	2.3317912	4.535344	1.386094	0.0000000
## 5	3.8550628	6.304706	9.171710	1.1300083	4.676053	1.370053	3.2203454
## 6	10.9127900	6.591495	10.599596	0.0000000	2.952837	7.018264	4.8058599
## 7	6.8666125	5.234084	10.771184	3.1856604	7.973205	6.192139	9.3707101
## 8	11.6096657	6.382206	6.286606	0.7617108	10.950750	4.116331	0.7617108
## 9	13.2890179	1.622087	0.000000	0.0000000	5.937052	4.512290	2.3663642
## 10	0.4930324	8.898656	2.984371	0.0000000	1.945570	0.000000	7.1201207
##	rs_AQP5	rs_WIF1	rs_KLK6	rs_KLK7	rs_CBLN2	rs_KRT81	rs_CIDEA
## 1	2.973519	4.992999	7.007468	7.3966544	1.999567	9.058201	6.1375322
## 2	2.907025	4.407659	6.243338	7.5130153	6.865038	8.748358	0.4448791
## 3	1.973207	3.625235	7.075554	7.7183767	3.393787	9.123460	7.5227690
## 4	2.079771	0.000000	2.817910	3.4171504	0.000000	6.194044	4.2595964
## 5	1.130008	1.130008	3.446905	4.2348692	10.063846	7.710113	0.4815056
## 6	11.472573	4.832363	9.284030	4.9580538	0.000000	5.095713	3.0463863
## 7	5.878924	7.534050	5.277765	4.8268739	2.030407	5.830859	1.3463045
## 8	9.585811	7.243835	7.133830	6.8153590	3.277003	12.217832	2.9273276
## 9	12.235071	6.705841	10.995248	10.6108407	1.355355	4.006020	0.0000000
## 10	1.394898	0.000000	1.151989	0.4930324	9.536238	3.483545	5.6524062
##	rs_EEF1A2	rs_SERPINA11	rs_LBP	rs_MMP1	rs_BPIL1	rs_KRT16	rs_PI16
## 1	6.715648	6.828709	1.836086	0.8928184	8.2310008	4.933563	6.472857
## 2	5.002662	6.310524	1.059009	3.4264124	7.9710699	6.113905	1.059009
## 3	13.627842	9.041707	6.732674	8.0263381	4.7137013	6.183812	8.301890
## 4	13.395235	7.972268	1.144242	3.9183862	14.6273582	3.956373	7.711308
## 5	10.352330	9.323860	2.310922	5.4525032	5.5410997	4.844677	2.421748
## 6	2.364404	1.026658	3.803930	3.6335242	0.0000000	10.054956	6.659692

## 7	4.396022	4.939946	11.111356	10.5291064	2.9894660	10.532867	5.801231
## 8	2.714531	1.779932	3.756863	9.3245874	0.0000000	11.115600	1.257554
## 9	7.234863	0.000000	0.000000	7.6807632	0.6035967	11.217382	3.574162
## 10	10.107292	7.588602	6.021571	8.0048193	2.2224027	1.784295	7.320952
##	rs_KLK10	rs_MSLN	rs_A2ML1	rs_NLRP2	rs_COL17A1	rs_SLC6A14	rs_PROL1
## 1	9.488997	2.7157177	2.1463945	10.448731	11.082059	3.835975	7.2378438
## 2	5.516737	6.6379971	1.2895984	10.780614	10.541477	6.004540	9.9447150
## 3	5.217774	4.0324095	0.7921057	4.400463	10.691141	3.490865	0.4497462
## 4	2.898189	2.2112926	1.5931625	10.104797	8.635068	3.798019	3.3616140
## 5	3.894032	2.4217484	0.4815056	10.367553	8.309089	3.157674	3.9319761
## 6	6.346854	11.8562043	10.6854031	8.556578	4.407910	11.529876	1.0266584
## 7	5.277765	9.4340145	11.1639531	11.435868	9.120826	9.346129	6.4365467
## 8	8.663260	8.0052495	13.7596159	10.140454	5.497050	5.229288	0.0000000
## 9	10.535576	4.5765282	9.4138974	1.355355	6.676830	9.847245	0.0000000
## 10	1.394898	0.8598106	1.3948982	2.654527	3.584987	0.000000	0.0000000
##	rs_PPP1R1B	rs_SLC5A8	rs_PTPRT	rs_CA9	rs_NXPH1	rs_MUC15	rs_SFRP1
## 1	12.344325	5.6141562	9.965838	0.5861162	3.495913	6.8662775	11.825586
## 2	7.219871	8.0260736	8.501892	4.6335242	2.760945	5.0026620	11.347218
## 3	7.087244	4.8295858	10.351931	0.0000000	1.675726	4.1559678	10.991993
## 4	5.297404	0.0000000	6.991786	0.0000000	10.623148	2.8179097	9.272980
## 5	9.917263	0.0000000	11.406076	2.2119778	1.130008	0.4815056	8.341169
## 6	13.202557	3.1342374	3.803930	8.2980387	0.000000	7.9505227	12.524434
## 7	10.155098	0.0000000	5.943631	2.0760117	0.000000	4.7041803	12.081038
## 8	10.018550	0.7617108	7.509142	7.9970061	0.000000	9.5427402	14.810752
## 9	11.161867	5.9370524	2.041699	9.3520670	0.000000	5.0308834	13.473901
## 10	10.303765	0.4930324	12.598863	1.4367482	5.592759	0.000000	6.577735
##	rs_CALML3	rs_PPP2R2C	rs_CNTNAP2	rs_C7	rs_SLITRK6	rs_PLIN4	rs_BEX1
## 1	9.5918927	9.873319	9.885785	10.9445654	10.158225	9.073195	4.8503094
## 2	8.9619367	2.205236	9.344277	4.1965520	7.350121	5.156668	3.1611460
## 3	8.6716023	10.562348	8.652057	11.0283264	8.103197	11.145712	8.2438837
## 4	5.4780108	7.915544	12.586292	8.9040731	5.267495	6.759052	0.4889263
## 5	6.8762935	9.646942	10.732571	8.7310824	5.565445	7.146185	4.1080309

## 6	9.6592335	2.745323	4.335633	8.7410193	4.635691	7.876033	3.3696200
## 7	7.6326659	3.857772	3.857772	8.9923481	5.142544	6.523786	2.1605653
## 8	2.7889989	10.006407	7.895760	4.6027835	3.756863	7.560540	2.8598106
## 9	2.6312207	8.018008	7.598070	0.6035967	5.683590	4.051929	3.8587966
## 10	0.4930324	1.784295	10.548670	7.1031199	6.767721	10.588915	2.2224027
##	rs_SCGB2A1	rs_CYP4Z2P	rs_KLHDC7A	rs_SLC6A4	rs ORM1	rs_SCGB3A1	rs_C10orf82
## 1	8.347532	7.0122636	10.508928	6.3719961	1.9995671	5.6759062	8.110945
## 2	6.380986	7.0958548	4.591787	0.7843365	0.0000000	0.4448791	5.626279
## 3	5.036697	4.4252377	10.497754	1.0686020	1.0686020	1.5002922	6.348294
## 4	10.336261	0.8535167	2.442997	0.4889263	0.8535167	2.4429966	5.236956
## 5	9.334523	9.3031981	10.504485	7.6170994	0.8418926	3.6426669	8.276279
## 6	6.983207	6.5914954	2.364404	3.2170446	7.0581151	12.8722686	0.000000
## 7	2.842074	2.3901724	3.606916	3.5605071	10.8310467	5.6978377	2.390172
## 8	4.581984	0.0000000	2.714531	1.7799321	1.7309225	1.6259250	2.046002
## 9	1.847075	2.6312207	0.000000	0.6035967	1.3553546	3.2192150	0.000000
## 10	2.222403	7.3464579	8.571007	7.9700794	0.4930324	2.3431520	10.181547
##	rs_LRRC31	rs_HBA1	rs_PCK1	rs_RPS28	rs_ESR1	rs_CDC20B	rs_PDZK1
## 1	7.9123265	1.0109946	4.7156628	10.547018	12.947072	8.6799213	8.839540
## 2	7.9627399	1.8188915	0.0000000	8.234184	10.333104	5.5615553	2.415164
## 3	3.2897017	6.7766567	6.8052512	4.242153	12.194072	1.3005338	8.787206
## 4	6.5388764	5.1246590	0.8535167	8.696683	13.647783	0.4889263	7.843885
## 5	1.3700527	1.0794976	0.0000000	2.620727	13.870330	6.8368356	9.786161
## 6	3.1342374	5.0170177	3.5075917	4.407910	9.926284	0.6028369	4.694674
## 7	1.7285301	1.4333334	1.3463045	9.859952	7.024519	0.4706150	3.057866
## 8	0.0000000	3.0389629	2.4648251	9.696365	4.883342	0.7617108	3.277003
## 9	0.0000000	1.0279325	2.2131295	10.664011	2.954959	0.0000000	2.631221
## 10	0.4930324	0.9719573	4.5738108	9.700659	13.743724	3.5351572	5.937754
##	rs_SYT9	rs_DLK1	rs_IGSF1	rs_MAGEA6	rs_GRPR	rs_FOLR1	rs_S100P
## 1	7.9046093	0.8928184	1.9995671	0.0000000	10.2564863	6.2874834	8.018631
## 2	7.8833178	0.0000000	6.3621069	0.0000000	2.9070252	4.6132311	6.917703
## 3	4.5876830	0.4497462	9.5629535	0.0000000	4.6094654	5.2597018	9.918025
## 4	0.4889263	5.6030210	2.3317912	0.8535167	3.1152330	3.3616140	13.008752

## 5	8.0361170	0.0000000	4.9031492	0.0000000	9.9954984	4.5103797	6.103279
## 6	1.0266584	1.0266584	1.0266584	0.0000000	1.6204457	10.6151030	9.399329
## 7	0.4706150	4.6608488	3.1856604	0.0000000	2.2799170	6.3019900	2.588205
## 8	2.5529426	0.4304994	9.6933383	0.4304994	1.7799321	5.6547334	8.913685
## 9	0.0000000	0.0000000	3.5098225	0.0000000	0.6035967	2.2131295	8.838204
## 10	9.0337556	0.0000000	0.4930324	0.0000000	6.4287739	0.4930324	4.979847
##	rs_CXCL13	rs_DCD	rs_FOXP1	rs_DSC3	rs_MMP13	rs_COL11A1	rs_MIA
## 1	9.197355	0.000000	2.514097	8.805410	4.372019	7.723464	7.324223
## 2	7.195195	7.847570	4.432004	9.343475	10.495660	15.428795	6.322163
## 3	9.038700	0.000000	3.748150	8.789593	9.819843	10.318020	6.079984
## 4	13.888390	0.000000	6.500823	6.380236	3.755561	9.008341	3.530283
## 5	8.070544	5.399322	3.687721	6.655946	9.528880	13.222142	4.089007
## 6	9.712827	13.817452	7.863235	3.803930	2.039840	8.858523	8.306052
## 7	12.138191	0.000000	5.110693	8.356006	8.521094	10.836230	7.695587
## 8	10.511162	1.919111	7.003052	12.491466	2.714531	9.785468	10.539385
## 9	3.858797	0.000000	7.209766	10.714845	8.142592	11.455921	11.850903
## 10	4.669305	0.000000	4.112417	2.090616	10.308871	13.400911	2.662912
##	rs_SCARA5	rs_SERPINB5	rs_CD300LG	rs_ROPN1	rs_PYDC1	rs_ANKRD30B	rs_CXCL17
## 1	5.192096	8.035218	6.444752	2.973519	3.9200360	7.363260	6.255482
## 2	2.314029	8.073265	2.835843	3.039682	0.7843365	2.509696	3.915043
## 3	6.322150	8.492708	7.899469	1.068602	0.4497462	2.613815	5.440706
## 4	6.487911	7.592698	4.787970	2.211293	0.0000000	7.000904	10.330849
## 5	2.421748	7.166220	1.370053	1.575796	5.5654449	6.806517	5.164517
## 6	3.633524	6.337631	3.692595	10.078677	5.7243010	0.000000	11.522264
## 7	4.903231	6.430110	4.638682	6.364098	0.8248086	3.512556	9.739506
## 8	6.486594	12.065932	2.927328	11.490584	3.1127335	0.000000	1.625925
## 9	1.622087	11.791504	1.622087	10.039694	0.0000000	0.000000	8.232561
## 10	6.307860	7.081584	6.329947	0.000000	0.0000000	3.768703	1.945570
##	rs_PLA2G2A	rs_DIO1	rs_NBP4	rs_AQP7	rs_ABCA12	rs_GLRA3	rs_SAA2
## 1	9.278217	6.727361	1.192320	5.7466782	3.960299	1.999567	6.458872
## 2	6.060259	5.868472	0.000000	0.4448791	7.796926	1.663071	3.520221
## 3	8.150395	5.203522	8.133581	7.5955163	4.520290	10.621832	9.263136

## 4	6.532604	3.993394	1.386094	3.1808798	3.798019	6.145539	3.115233
## 5	1.575796	10.535625	2.421748	0.8418926	6.678442	5.358108	2.951457
## 6	7.281367	2.852818	3.369620	4.0941347	5.280329	1.353888	7.134660
## 7	5.781137	1.887369	0.000000	1.7285301	3.303050	2.677892	7.751031
## 8	4.305803	2.859811	0.000000	2.3709454	3.470446	2.270559	6.640343
## 9	0.000000	0.000000	3.909562	0.6035967	3.751592	0.000000	3.909562
## 10	9.133407	10.984603	3.535157	6.4624908	2.090616	0.000000	5.504881
##	rs_CHAD	rs_ASCL1	rs_LRP1B	rs_SLC5A1	rs_ATP13A5	rs_PTPRZ1	rs_WNK4
## 1	10.284012	0.0000000	1.8360857	8.2715667	1.836086	5.225518	12.320352
## 2	7.057254	0.0000000	3.5202211	5.1566676	3.982519	4.655192	8.595678
## 3	8.922782	0.7921057	4.3752550	3.5818212	1.675726	3.117994	8.640083
## 4	11.670077	7.7113084	6.5941409	3.5719923	1.144242	2.331791	8.292155
## 5	9.684243	0.0000000	2.3109217	4.0401648	2.421748	3.023522	9.862373
## 6	3.692595	0.0000000	1.8453495	9.3960006	10.494246	4.049648	1.777115
## 7	6.397481	0.8248086	0.4706150	6.9135190	4.037918	3.895642	5.066378
## 8	3.600210	3.6410026	2.4648251	7.7588621	1.625925	7.754223	4.279954
## 9	6.031748	1.3553546	1.8470749	7.7485538	2.854913	3.509822	4.976689
## 10	10.468802	0.8598106	0.8598106	0.4930324	0.000000	1.394898	12.526292
##	rs_CST5	rs_PEG10	rs_CLIC6	rs_MS4A15	rs_ABCC8	rs_PPAN.P2RY11	rs_SORCS1
## 1	2.806881	8.435851	11.526563	9.8600791	7.546333	5.722769	7.6576493
## 2	0.000000	11.121915	7.061161	0.0000000	8.069391	4.761594	3.1016837
## 3	1.300534	10.506124	10.287521	2.9230351	4.693448	4.663982	6.2125616
## 4	7.299487	7.058801	5.411196	4.1326262	8.017892	5.128491	8.0922878
## 5	0.000000	14.331636	12.483022	7.0197453	8.426710	7.044983	6.0610979
## 6	0.000000	11.433066	8.041375	1.3538878	1.026658	0.000000	2.3644043
## 7	0.000000	8.501270	5.869437	0.4706150	4.807139	7.745986	2.8420737
## 8	0.000000	14.706249	4.795746	0.4304994	0.000000	0.000000	6.1825632
## 9	0.000000	9.087271	5.162279	2.5048492	0.000000	8.309660	0.6035967
## 10	6.247252	13.497588	11.548385	9.3407011	6.421935	4.726373	9.8983762
##	rs_NKAIN1	rs_SAA1	rs_SLC44A4	rs_RBP4	rs_ARHGAP36	rs_SDR16C5	rs_GSTA1
## 1	8.773282	8.532488	11.543019	6.992985	0.0000000	2.715718	0.8928184
## 2	5.626279	6.028684	10.680037	2.509696	0.0000000	8.128303	4.3059632

## 3	11.042407	11.296836	11.501083	8.856016	4.1559678	9.506027	3.2347159
## 4	7.686094	6.769759	12.661615	3.522206	0.0000000	9.507754	1.3860936
## 5	8.917573	5.907691	10.854274	2.059909	2.4217484	9.161665	0.4815056
## 6	3.369620	8.222639	3.571932	4.094135	0.0000000	4.372221	5.9468385
## 7	3.462968	10.256370	6.199729	7.338225	4.8463479	2.390172	3.9685332
## 8	5.174778	7.675429	3.470446	5.892865	3.6002103	3.277003	5.7510298
## 9	7.570732	7.952947	2.631221	3.371824	0.0000000	8.916299	4.3745387
## 10	11.460388	7.257065	12.093860	7.186187	0.4930324	6.871761	1.7842946
##	rs_TF	rs_C2orf54	rs_LY6D	rs_S100A7A	rs_KRT15	rs_CYP4F22	rs_GLYATL2
## 1	9.380979	9.0535556	1.9995671	0.000000	9.793387	11.9018640	5.9503121
## 2	5.516737	6.6379971	1.0590091	0.000000	9.646874	7.5744429	7.7685330
## 3	8.097427	5.4407064	1.0686020	1.832120	8.320169	3.7481499	4.8295858
## 4	3.417150	7.0761582	2.2112926	0.000000	8.163035	2.8981890	0.4889263
## 5	5.999892	6.9004176	2.4217484	0.000000	13.052273	3.6877214	5.3993215
## 6	7.440602	3.2953410	8.3519379	2.952837	12.505127	1.0266584	9.1769231
## 7	7.612906	5.3613473	5.2920344	2.030407	12.733787	5.8694372	10.1879031
## 8	5.044031	2.7889989	4.0268355	0.000000	13.778411	1.4534912	10.6349478
## 9	7.702516	3.9585922	0.0000000	0.000000	12.434968	0.6035967	3.7515923
## 10	5.104672	0.4930324	0.4930324	0.000000	8.663782	8.6256004	6.3372348
##	rs_BBOX1	rs_CAPN8	rs_SOSTDC1	rs_TMPRSS4	rs_DSG1	rs_CASP14	rs_LCN2
## 1	6.154984	8.6662943	5.3519639	2.4016305	2.2796496	0.0000000	3.9602986
## 2	6.098780	7.4156716	7.5907517	2.9070252	4.2246963	0.4448791	4.9361432
## 3	5.675655	8.7740052	5.7657071	7.2381859	2.2197106	2.4301782	6.1320791
## 4	4.099060	7.1680593	3.7555606	1.7742494	1.5931625	0.0000000	1.1442422
## 5	3.548104	8.4100027	3.1576743	2.5246655	2.1908677	4.0401648	4.5596876
## 6	9.361152	6.1606661	7.7000943	4.4767446	4.8583938	0.0000000	8.2548425
## 7	7.569630	3.1856604	3.8956419	0.8248086	5.0106859	2.9894660	7.3139532
## 8	9.282511	0.4304994	7.8999671	0.4304994	12.7570409	0.0000000	4.9169447
## 9	3.635766	0.0000000	9.7347428	7.9529468	2.0416986	0.0000000	9.4919621
## 10	0.000000	6.4954377	0.8598106	0.8598106	0.4930324	0.0000000	0.4930324
##	rs_PGLYRP2	rs_SPAG6	rs_CAPN6	rs_TMEM132C	rs_CCL21	rs_PI3	rs_SLC7A4
## 1	8.629313	0.8928184	7.321366	7.499284	6.756235	1.4402081	7.336741

## 2	4.455945	0.4448791	3.880078	3.039682	6.393435	0.7843365	5.647222
## 3	5.174590	4.2968758	6.795783	6.776657	8.890897	1.0686020	7.418662
## 4	2.642609	0.8535167	5.894750	4.319127	7.838810	1.7742494	6.487911
## 5	6.297457	0.4815056	3.393512	3.157674	6.462105	1.1300083	5.180367
## 6	4.981930	1.0266584	10.495283	4.298086	11.133022	5.0736617	1.026658
## 7	1.346305	2.0304067	12.586067	3.651867	8.154014	6.8425741	2.030407
## 8	1.030830	1.6259250	7.963652	1.919111	6.841841	1.2575538	2.270559
## 9	0.000000	0.0000000	4.576528	1.622087	6.302542	2.5048492	6.937512
## 10	6.239492	0.4930324	4.078029	4.863522	5.928133	0.4930324	6.057316
##	rs_NBPF6	rs_MAGEA3	rs_TSPAN8	rs_SCUBE2	rs_SLC19A3	rs_KLK8	rs_RIMS4
## 1	0.0000000	0.0000000	1.4402081	12.607789	5.723471	4.3594228	7.957783
## 2	0.0000000	0.0000000	1.0590091	12.411103	2.598389	4.7673423	4.774213
## 3	6.5644437	0.0000000	8.4912426	11.634049	7.831590	4.3752550	9.257973
## 4	0.0000000	0.0000000	7.1841573	7.426718	3.711814	1.5931625	5.782920
## 5	0.0000000	0.0000000	2.3109217	13.674621	3.687721	0.4815056	8.732427
## 6	0.6028369	0.0000000	6.8916452	6.717719	6.118208	3.6925946	3.692595
## 7	0.0000000	0.4706150	4.2574406	8.993440	4.704180	2.3901724	4.167422
## 8	0.0000000	0.4304994	1.4534912	6.339478	4.702486	3.8853108	6.216692
## 9	0.0000000	0.0000000	5.8872669	7.234863	5.119796	8.1818390	7.621097
## 10	2.4545971	0.0000000	0.8598106	12.214649	5.592759	0.0000000	10.573183
##	rs_ROPN1B	rs_MSMB	rs_IL20	rs_NEK10	rs_EDN3	rs_SLC13A2	rs_S100A8
## 1	2.8068808	8.081586	6.3794390	8.647922	8.141909	6.3110289	1.651683
## 2	3.3771237	4.252295	2.4151637	4.279382	4.936143	2.8358432	3.273173
## 3	1.5002922	5.300446	4.3752550	6.282025	2.430178	1.6757256	4.987639
## 4	2.3317912	5.326703	1.1442422	3.243669	2.442997	2.4429966	2.546240
## 5	1.1300083	5.358108	4.9221265	6.993071	1.370053	1.9158650	3.280407
## 6	9.7047790	7.787361	2.8528179	2.364404	4.219935	9.5596270	9.378119
## 7	4.8463479	1.346305	1.8873693	3.123186	7.521991	3.3583541	10.514727
## 8	9.7410178	3.327845	0.7617108	2.552943	7.815635	0.4304994	7.500857
## 9	9.9845317	2.747387	0.0000000	2.954959	4.096431	5.9492338	6.283424
## 10	0.4930324	5.580528	6.2854281	3.316595	0.000000	0.4930324	5.187653
##	rs_TRIM29	rs_SYT8	rs ORM2	rs_PON3	rs_FAM3B	rs_FGB	rs_S100A9

## 1	10.534572	6.8768337	0.5144000	8.529096	8.108708	0.0000000	4.401562
## 2	10.014380	5.5504821	0.0000000	2.681966	3.564939	0.7843365	5.963379
## 3	9.457312	6.4116550	0.4497462	7.114159	4.609465	1.8321204	6.288790
## 4	8.008882	2.4429966	0.0000000	1.935083	11.452869	0.0000000	5.369568
## 5	7.542413	3.7314114	0.0000000	1.130008	5.465498	0.8418926	4.762827
## 6	9.591014	7.9012923	8.6452175	6.614588	10.514849	0.0000000	8.985003
## 7	9.207137	7.2274937	10.5192834	5.840599	5.869437	1.1090262	11.261910
## 8	11.338094	7.7518968	0.5484366	0.000000	4.403861	0.0000000	8.393248
## 9	11.090446	0.6035967	3.0485326	6.748291	5.357735	0.0000000	7.570732
## 10	2.986611	0.0000000	0.4930324	1.945570	6.231692	0.0000000	5.397423
##	rs_LPPR3	rs_HS6ST3	rs_SERPINA5	rs_WFDC2	rs_CHRDL1	rs_ZIC1	rs_CST4
## 1	8.9310179	9.2368164	9.864727	9.365133	7.766676	7.1360642	10.618738
## 2	4.5254613	8.2984824	7.999852	7.017591	4.138569	3.7310963	6.374720
## 3	9.5168736	8.2263693	12.931184	9.276813	9.818674	0.0000000	3.055890
## 4	2.8179097	0.8535167	13.455387	9.170651	8.144643	0.0000000	12.984683
## 5	7.1582401	8.6451760	10.549803	6.562279	5.478376	1.1300083	3.393512
## 6	0.0000000	4.1792085	5.426681	13.285460	8.351938	2.9528367	3.956317
## 7	1.1090262	0.8248086	6.918127	10.659349	7.331332	0.0000000	3.358354
## 8	0.4304994	7.7726926	3.112733	6.655353	8.014980	8.1196939	2.552943
## 9	5.9851771	6.1941107	1.355355	12.463516	7.066135	5.2826993	1.622087
## 10	6.8413291	10.0290071	10.233247	11.425981	7.677420	0.8598106	5.753923
##	rs_PCOLCE2	rs_NCRNA00052	rs_ERBB4	rs_C2orf40	rs_DARC	rs_C16orf89	
## 1	5.381917	6.394211	11.029807	7.755279	9.895552	4.973460	
## 2	2.974878	3.650408	9.899606	6.405778	4.969786	1.488412	
## 3	8.344726	5.391266	8.813249	5.755974	10.274798	5.868645	
## 4	3.115233	0.000000	10.860462	4.584692	8.158968	6.519976	
## 5	2.421748	0.000000	10.672550	4.583724	7.447365	11.474162	
## 6	7.387964	0.000000	5.636775	1.845350	7.739143	5.994564	
## 7	7.131559	1.109026	5.539379	6.370837	9.049117	6.523786	
## 8	8.849879	1.919111	6.987323	7.056794	6.497740	2.370945	
## 9	6.836196	1.027933	1.355355	6.131340	2.854913	4.051929	
## 10	6.783813	3.193504	10.090678	2.343152	7.761085	10.579343	

##	rs_ACTL8	rs_TMC5	rs_ABCA8	rs_SLC9A2	rs_COL10A1	rs_FOXJ1	rs_ANXA8
## 1	1.6516832	10.750501	6.295374	6.9734437	10.775751	8.8381898	7.3595018
## 2	0.0000000	10.232753	6.342980	1.4884122	14.358588	5.6156900	7.1844886
## 3	0.0000000	8.285070	8.772799	4.6520677	10.669270	1.8321204	9.1101523
## 4	0.4889263	3.918386	6.882576	0.8535167	9.106635	1.1442422	5.0737260
## 5	1.9158650	11.333068	5.242080	7.8455001	12.853613	8.4283702	5.9896749
## 6	8.6264059	9.235200	5.241295	4.5741984	10.651379	0.6028369	8.0611217
## 7	0.0000000	6.752563	4.903231	5.1737071	10.377170	1.5500634	6.7831947
## 8	5.2557915	1.453491	1.257554	4.1449682	8.403655	1.6259250	5.3324967
## 9	0.0000000	1.027933	1.847075	2.0416986	11.006951	0.6035967	9.5709547
## 10	0.0000000	10.416863	6.462491	0.4930324	12.296380	3.4300176	0.6435792
##	rs_THRSP	rs_ABCC13	rs_MARCO	rs_PPP1R1A	rs_PI15	rs_WDR72	rs_AKR1C2
## 1	6.661727	3.8786175	2.514097	8.255477	6.263549	2.2796496	5.835947
## 2	6.546201	0.0000000	2.087599	6.926296	6.052429	1.0590091	4.279382
## 3	7.015639	1.5002922	1.500292	7.949430	5.956247	2.3287790	8.833056
## 4	8.351237	0.0000000	3.993394	3.115233	5.706959	8.4969025	4.928385
## 5	8.972085	6.0438738	2.059909	6.347451	7.599524	0.0000000	4.653519
## 6	7.872844	0.6028369	5.494643	10.986559	6.766646	0.6028369	8.751475
## 7	4.003647	0.4706150	8.357703	4.522451	9.982156	1.8873693	3.651867
## 8	2.927328	0.0000000	9.580579	9.638375	7.034007	2.8598106	3.224287
## 9	2.213130	0.0000000	4.139592	6.775913	9.750492	1.0279325	9.413897
## 10	5.171435	1.1519887	6.387245	6.057316	5.879042	9.7265603	6.841329
##	rs_SPDYC	rs_ATP6V0A4	rs_ALOX15B	rs_TRPA1	rs_ELOVL2	rs_SLC26A3	rs_LGALS12
## 1	0.8928184	6.507236	9.395735	0.8961556	4.850309	5.9799910	5.3519639
## 2	0.0000000	4.046980	8.600491	2.6876430	4.525461	9.1806273	0.4448791
## 3	2.6138145	4.987639	6.978458	1.5002922	11.236874	3.7083307	5.3400708
## 4	0.0000000	1.935083	4.376290	1.1599520	10.756301	1.9350825	3.5222064
## 5	7.6141849	4.140803	7.906328	3.7014049	11.801363	3.1576743	2.9514572
## 6	4.5099618	8.791896	2.745323	0.6223682	4.335633	0.6028369	4.2980864
## 7	0.8248086	5.027844	6.936413	4.6386821	3.185660	1.8873693	1.5500634
## 8	0.0000000	5.417117	4.623282	3.8981503	5.268861	0.0000000	2.2705588
## 9	0.6035967	5.899874	3.858797	1.6220870	7.009087	0.0000000	0.0000000

## 10	0.4930324	2.454597	5.764776	5.1309103	9.734862	1.3948982	5.0346735
##	rs_SMYD1	rs_TRH	rs_SYTL5	rs_KNDC1	rs_CHIT1	rs_HGD	rs_CHST8 rs_VTCN1
## 1	1.440208	1.1923204	6.4588725	5.0869154	5.675906	8.858305	7.588688 10.866273
## 2	2.681966	1.6630713	8.2009275	1.8188915	3.949171	8.612522	2.415164 12.648143
## 3	1.500292	3.7083307	7.2658822	6.9909583	6.448377	7.606390	6.062718 10.775752
## 4	3.711814	7.6633062	10.4121182	0.4889263	5.706959	7.392487	6.940585 4.928385
## 5	2.620727	3.9319761	6.8956250	3.5481037	6.260656	6.743901	7.920554 13.418577
## 6	3.134237	3.1342374	4.8839629	0.6028369	2.952837	6.745880	2.502840 11.849934
## 7	5.440351	0.8248086	2.6778916	1.5500634	8.983582	5.361347	1.728530 11.705961
## 8	5.174778	1.0308304	0.7617108	0.4304994	8.009150	1.257554	5.417117 12.093515
## 9	4.911438	0.0000000	5.8487656	1.3553546	1.622087	0.000000	1.622087 12.727193
## 10	0.000000	3.4835449	7.1031199	0.0000000	1.784295	1.784295	1.945570 9.164468
##	rs_ROB02	rs_MRAP	rs_INSM1	rs_HOTAIR	rs_C14orf180	rs_PKP1	rs_CR2
## 1	7.2088918	2.340733	4.458894	8.2854993	3.3214231	10.287477	3.5496815
## 2	5.8323508	0.000000	0.000000	0.7843365	0.0000000	7.406488	0.7843365
## 3	3.2897017	4.966020	1.675726	3.5370599	5.4885054	8.443533	3.9664212
## 4	10.6294076	0.000000	8.434344	0.0000000	1.3860936	6.169995	1.5931625
## 5	4.3514587	0.000000	3.968948	7.0631340	0.0000000	6.706079	7.6881090
## 6	3.2170446	1.101852	3.633524	7.7668933	2.9528367	5.710076	8.8840881
## 7	0.8248086	0.000000	2.492571	5.6543124	1.3463045	6.967866	7.6631802
## 8	5.0741243	1.242816	2.788999	6.2826159	1.4534912	12.114823	4.2802140
## 9	0.0000000	0.000000	3.219215	8.4214867	0.6035967	12.073168	4.7256267
## 10	3.7687031	3.425097	5.155033	10.8004473	3.5849865	5.354970	1.3948982
##	rs_NPY2R	rs_SYT1	rs_GPR98	rs_ALDH1L1	rs_LOC100271831	rs_BCAS1	rs_HOXC11
## 1	1.1923204	5.351964	8.891220	6.231006	0.000000	8.9208518	8.432277
## 2	0.0000000	6.562830	7.883318	2.509696	0.000000	9.5687551	3.769803
## 3	1.6757256	5.939149	7.603679	6.883319	4.334246	7.2206018	4.473547
## 4	0.4889263	8.773173	8.171135	2.079771	5.220345	12.9013233	0.000000
## 5	1.3700527	6.831827	8.796819	1.575796	0.000000	8.7942459	6.340415
## 6	0.0000000	5.590937	8.388125	6.752836	7.305267	6.8337819	7.309943
## 7	2.6778916	4.198054	4.136118	2.030407	3.122540	5.1737071	5.388165
## 8	2.0460020	3.756863	4.450492	2.464825	0.000000	2.7889989	7.112236

## 9	0.0000000	1.622087	1.622087	2.366364	5.242279	0.6035967	8.354364
## 10	0.0000000	11.309693	8.967199	4.497804	0.000000	9.5179148	8.910919
##	rs_LOC728606	rs_HORMAD1	rs_SLPI	rs_HEPACAM2	rs_ANXA8L2	rs_FREM2	rs_ATP1A2
## 1	5.140464	1.999567	7.743791	5.031303	5.7466782	2.279650	5.575796
## 2	1.818891	0.000000	5.912386	4.755048	6.1063630	4.332071	3.474086
## 3	3.748150	0.000000	8.362473	5.803994	6.8562450	7.865929	7.753039
## 4	9.974910	0.000000	8.287469	8.643825	4.4040516	8.407170	6.973377
## 5	2.795538	0.000000	5.385714	6.035184	5.1158947	8.663617	4.294341
## 6	4.909082	8.524424	13.824329	1.353888	5.3735229	6.328348	4.372221
## 7	1.550063	7.135521	13.608576	1.728530	5.3061674	1.887369	3.818871
## 8	1.625925	8.408093	9.180722	0.000000	4.4273648	9.873135	2.464825
## 9	3.909562	7.819951	10.122040	1.027933	6.6397256	8.368041	0.000000
## 10	2.090616	0.000000	3.256362	7.331939	0.8598106	9.165492	3.535157
##	rs_FSIP1	rs_PIK3C2G	rs_CYP4B1	rs_TUBA3D	rs_FOXA1	rs_NAT1	rs_CA4
## 1	8.049286	6.401540	7.989744	9.9812066	12.696589	12.982938	0.5144000
## 2	4.969786	6.180072	11.720006	7.8293593	12.464073	8.699063	0.4448791
## 3	4.296876	4.126056	8.192495	5.7363099	12.638795	8.172513	5.2318855
## 4	6.872676	4.889644	4.608744	13.1380180	13.753339	7.292080	0.4889263
## 5	6.043874	4.108031	8.507462	2.5246655	13.444034	10.464187	0.0000000
## 6	1.620446	8.591914	2.211230	0.6028369	7.879214	6.281021	0.0000000
## 7	1.728530	5.189038	3.358354	2.2799170	8.492028	5.361347	1.1090262
## 8	2.270559	7.826726	1.257554	1.6259250	3.680662	4.795746	0.0000000
## 9	2.041699	3.635766	3.958592	0.0000000	5.809211	6.321410	0.0000000
## 10	11.436623	1.784295	10.949367	4.5738108	13.745351	11.273110	4.0066930
##	rs_KRT13	rs_CCL19	rs_PPP4R4	rs_TTYH1	rs_EPYC	rs_SLC28A3	rs_TIMP4
## 1	0.8928184	9.5187910	1.6516832	4.074754	1.4402081	1.6516832	6.709755
## 2	2.5983890	1.9594734	1.2895984	5.877361	10.1870021	4.5026616	3.377124
## 3	4.9539822	8.7931660	1.9732072	3.708331	3.7481499	2.2197106	7.643814
## 4	0.4889263	6.4215616	1.7742494	2.211293	0.8535167	0.4889263	4.584692
## 5	5.2866927	7.1977111	7.5362674	3.855063	7.2208861	2.1908677	1.575796
## 6	1.6204457	9.8967595	2.9528367	3.046386	0.6028369	7.4057244	3.295341
## 7	0.8248086	11.1387582	0.8248086	5.334021	7.0749100	5.7504618	2.762306

## 8	0.0000000	7.9796407	6.3518156	11.637489	4.4038608	3.5582431	5.751030
## 9	1.6220870	0.6035967	2.0416986	10.359067	3.9585922	3.0485326	1.622087
## 10	4.3897939	7.1493976	4.8431899	2.343152	5.1046721	1.6026944	5.465517
##	rs_AGTR1	rs_IGDCC3	rs_FGFBP1	rs_HSD17B2	rs_SLC7A2	rs_VSIG2	rs_FLJ45983
## 1	5.601483	4.3418577	1.4402081	2.7157177	11.791121	4.7619554	3.321423
## 2	7.068943	2.9070252	2.3140294	2.4151637	12.855548	2.5096958	4.811800
## 3	7.418662	8.4750200	0.7921057	2.3287790	13.952654	4.6309238	5.286992
## 4	5.740005	1.1442422	2.5462401	2.8179097	14.968028	2.2112926	9.142091
## 5	6.128009	6.7385584	2.9514572	3.8550628	10.412281	8.3464468	7.247461
## 6	2.502840	1.3538878	3.7493305	7.7144166	6.418588	1.0266584	4.049648
## 7	4.660849	1.1090262	4.2862454	6.1691293	8.392889	4.3421778	2.842074
## 8	2.370945	0.4304994	4.0572856	2.5529426	7.622951	0.4304994	1.779932
## 9	2.747387	2.8549133	6.1525688	5.2436653	6.925229	0.0000000	0.000000
## 10	12.013970	9.4615060	0.0000000	0.4930324	11.968640	1.6026944	9.948015
##	rs_KIAA0408	rs_FAM5B	rs_GLDC	rs_FAM196A	rs_PNMT	rs_CYP4X1	rs_NCCRP1
## 1	3.648109	5.0686149	1.8360857	9.226536	6.018636	5.104987	5.909766
## 2	2.565329	2.9070252	1.8188915	4.695966	8.039998	5.505313	3.273173
## 3	5.878904	2.9909912	8.0323979	5.259702	8.845730	5.259702	6.501766
## 4	0.000000	9.5825344	0.4889263	8.904073	1.935083	5.834830	3.571992
## 5	0.000000	2.0599090	8.8473330	5.888522	3.393512	10.373598	5.917181
## 6	0.000000	0.6028369	6.5914954	1.845350	1.353888	10.375909	11.003425
## 7	4.758223	0.8248086	6.2949221	5.527368	3.895642	2.989466	5.094498
## 8	3.852338	1.4534912	9.2589582	2.370945	2.046002	3.515019	9.216581
## 9	3.442466	6.7827375	4.6678240	1.355355	2.213130	9.738257	4.139592
## 10	2.497893	5.0346735	3.5849865	7.103120	7.085916	9.000861	3.584987
##	rs_TMPRSS6	rs_KRT23	rs_CNTFR	rs_MS4A1	rs_PAX7	rs_UGT2B15	rs_MMP12
## 1	4.567144	9.843357	5.663766	5.758143	8.5408096	4.784556	1.192320
## 2	5.018826	8.623132	1.059009	2.760945	0.4448791	6.091158	3.101684
## 3	9.199034	9.580981	6.373974	5.633754	0.7921057	5.511825	7.537047
## 4	6.421562	6.052144	3.046439	3.711814	0.0000000	5.221436	1.774249
## 5	5.257105	11.677877	7.530096	8.248356	0.4815056	4.004996	3.731411
## 6	1.620446	12.376362	4.442738	9.560618	0.0000000	4.605269	5.180693

## 7	2.588205	11.002749	3.358354	10.148740	0.4706150	5.821049	8.134347
## 8	1.453491	13.085291	9.260595	6.037356	0.4304994	0.000000	8.073883
## 9	3.136388	11.915819	8.283967	0.000000	0.0000000	0.000000	4.479069
## 10	5.250765	4.242320	4.714779	3.679762	0.0000000	3.892595	3.256362
##	rs_GRB14	rs_FGG	rs_C2CD4A	rs_TFPI2	rs_ZBTB16	rs_ART3	rs_NPY5R
## 1	2.5140970	0.0000000	2.5140970	6.128726	8.996616	0.5144000	0.8928184
## 2	0.4448791	0.0000000	8.4190720	3.691311	6.653606	0.4448791	0.4448791
## 3	7.8816781	4.0643052	3.1179942	4.296876	8.534582	0.4497462	4.9709089
## 4	2.8179097	0.0000000	1.1442422	3.361614	5.326703	0.4889263	4.3762904
## 5	2.9514572	0.0000000	3.3380678	5.503794	5.099316	1.3700527	3.4983913
## 6	9.5336124	0.6028369	3.8039296	6.222099	2.745323	8.7091910	5.5435949
## 7	9.3245971	0.4706150	6.6784508	6.081470	4.725365	6.2949221	0.4706150
## 8	7.8178605	0.4304994	0.7617108	4.495670	2.927328	7.3552648	2.0460020
## 9	2.0416986	0.0000000	3.1363883	1.027933	0.000000	8.7539030	7.6586764
## 10	5.0346735	0.0000000	0.4930324	4.078029	4.042802	0.4930324	2.2224027
##	rs_DCDC2	rs_PCSK1N	rs_UGT2B28	rs_PPP1R14C	rs_ONECUT2	rs_DCX	rs_RGS22
## 1	2.401630	3.7920328	1.1923204	4.180792	3.0501360	8.0281326	4.4588938
## 2	6.955975	3.8442450	1.9594734	6.060259	2.2052361	2.2052361	8.3991463
## 3	9.537550	3.2347159	0.7921057	5.416198	4.1559678	3.0558898	4.2139927
## 4	8.444688	0.4889263	1.3860936	2.079771	2.2112926	1.9350825	8.1071396
## 5	7.528889	2.7955384	1.1300083	4.535244	2.5246655	0.4815056	5.2571049
## 6	3.217045	6.6817275	1.8453495	10.790957	3.2170446	6.1606661	1.6204457
## 7	6.142599	3.1231861	0.0000000	8.305901	6.4365467	7.9951781	2.4925711
## 8	3.073340	4.9976718	0.0000000	12.126426	4.1163315	10.6355786	0.7617108
## 9	3.371824	11.0000135	0.0000000	7.943843	5.7822251	1.0279325	0.0000000
## 10	0.000000	1.1519887	0.0000000	1.151989	0.4930324	1.6026944	7.8554721
##	rs_GJB1	rs_C1orf173	rs_RBM24	rs_TRPV6	rs_ATP13A4	rs_AKR7A3	rs_C19orf33
## 1	5.920010	5.2419431	10.468932	4.691947	2.279650	10.493148	10.794691
## 2	3.273173	0.7843365	2.598389	5.050615	11.222156	2.681966	9.426565
## 3	3.537060	2.6138145	8.391051	4.609465	2.776694	8.897552	10.131319
## 4	2.442997	3.6201172	7.335969	2.442997	1.593163	10.497130	10.101288
## 5	5.767827	8.2445917	8.454676	5.601209	3.687721	10.607727	7.988388

## 6	3.134237	1.8453495	4.298086	9.901462	8.721652	4.665484	8.079496
## 7	3.651867	2.7623063	4.257441	8.241179	2.842074	3.358354	5.310940
## 8	3.224287	1.6259250	1.919111	9.270377	3.327845	2.859811	1.698841
## 9	5.513525	0.0000000	1.847075	7.288587	2.504849	5.782225	4.788268
## 10	1.151989	1.7842946	8.525475	1.394898	1.784295	11.130168	10.389497
##	rs_KRT4	rs_DES	rs_TMPRSS3	rs_ZIC2	rs_OGN	rs_C3orf57	rs_CACNG4
## 1	0.8928184	2.146395	9.315556	8.0138564	8.918299	8.124297	11.854748
## 2	2.5983890	1.818891	5.034806	1.4884122	12.380161	7.384829	12.144098
## 3	1.3005338	10.010462	6.308898	1.9732072	9.682732	8.217532	10.941901
## 4	0.4889263	1.774249	4.829505	1.3860936	7.893683	5.772311	8.728591
## 5	1.3700527	2.710790	10.684756	1.9158650	9.590972	11.565442	11.845677
## 6	0.6028369	9.134948	9.118887	0.0000000	5.621656	11.893069	4.137299
## 7	1.1090262	5.414494	7.033041	8.8537072	6.480826	4.104127	5.597990
## 8	0.0000000	5.841296	7.385582	8.5024134	3.558243	3.793501	7.498085
## 9	1.0279325	4.222233	9.329037	7.5941962	4.576528	10.737852	4.860744
## 10	0.0000000	1.784295	8.563258	0.4930324	9.233469	11.959224	12.451658
##	rs_LOC642587	rs_ATRNL1	rs_AFP	rs_NDP	rs_GABRB3	rs_LRG1	rs_AREG
## 1	8.060904	3.258232	1.1923204	3.381962	4.486727	10.249395	10.205054
## 2	7.518709	8.253093	3.5649390	4.196552	4.848438	6.518052	10.073601
## 3	6.014552	7.206379	4.5876830	3.966421	4.323478	6.183812	7.279534
## 4	4.808890	1.935083	0.4889263	1.144242	6.916698	9.598388	5.980210
## 5	8.044801	5.945282	2.7955384	8.530832	4.264912	10.561575	9.506264
## 6	7.324022	2.952837	0.6028369	3.217045	2.039840	9.684916	6.977280
## 7	6.803261	2.030407	0.8248086	8.425619	2.030407	5.791220	5.388165
## 8	2.927328	8.634514	0.0000000	6.351816	9.502499	3.470446	5.722810
## 9	8.948516	7.713272	0.0000000	4.638027	5.835702	1.027933	6.829620
## 10	10.059621	3.724912	4.8635222	8.047656	3.852468	7.809050	8.352847
##	rs_GRIK3	rs_TPRG1	rs_AKR1B10	rs_IGJ	rs_PSCA	rs_DKK1	rs_GRIA4
## 1	7.865391	7.241933	1.8360857	13.790641	8.1309262	3.2582325	6.8395439
## 2	7.451834	7.049409	3.3771237	11.101667	5.5053130	4.5254613	4.8664085
## 3	9.988292	6.062718	7.1065200	12.968732	7.2521005	5.3269831	3.7868995
## 4	8.062117	10.098440	1.3860936	11.859761	0.4889263	1.3860936	3.5222064

## 5	9.482490	6.253182	2.4217484	11.029934	9.5693170	5.7252422	2.5246655
## 6	5.299453	4.407910	1.3538878	11.458017	7.4362885	6.9350978	3.7493305
## 7	5.770985	5.061556	0.4706150	14.317628	7.7458565	2.7623063	5.2777654
## 8	3.224287	3.793501	0.7617108	11.392664	3.4704458	5.0741243	0.4304994
## 9	4.006020	3.635766	2.2131295	8.959098	4.2618467	11.0000135	0.0000000
## 10	8.772616	11.293158	1.7842946	6.373133	4.2423205	0.8598106	0.0000000

##	rs_CYP2A7	rs_COMP	rs_TSIX	rs_GRM4	rs_FIGF	rs_HRASLS5	rs_FAT2
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## 1	4.6678354	11.396651	4.665887	4.372019	1.999567	8.011463	8.396041
## 2	2.2052361	13.642377	3.573278	1.663071	1.663071	3.880078	9.128518
## 3	0.0000000	11.555223	5.382055	5.534774	6.205428	6.169220	7.117963
## 4	1.9350825	10.018770	3.939029	8.755775	4.678590	7.556055	5.684499
## 5	0.0000000	12.289828	5.852471	5.226898	1.130008	11.320160	6.455607
## 6	0.0000000	12.514237	10.807005	3.507592	3.956317	6.470140	8.121480
## 7	0.8248086	11.810035	6.947545	3.651867	4.746248	4.228057	7.282135
## 8	0.0000000	9.408185	7.821524	4.116331	2.927328	4.026835	8.793334
## 9	0.0000000	11.211388	9.658607	2.747387	2.854913	6.775913	6.748291
## 10	0.4930324	12.820789	8.275573	6.846446	1.945570	9.231514	2.343152

##	rs_CCNO	rs_ADCY5	rs_TDRD1	rs_F7	rs_TP5G1	rs_C6	rs_KRT6C
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## 1	9.6705975	8.823258	0.5144000	9.100474	8.2330564	5.8785905	4.784556
## 2	7.3533118	6.236443	1.2895984	6.460051	2.0875986	0.7843365	2.760945
## 3	3.3937868	7.938715	2.1017173	2.697551	1.8321204	5.3269831	2.851719
## 4	0.4889263	6.950031	0.8535167	1.935083	1.1442422	3.9183862	1.144242
## 5	7.9806240	6.326237	2.3109217	6.885992	8.0026766	3.0921567	1.575796
## 6	5.5595469	3.803930	1.3538878	1.353888	0.0000000	2.8528179	6.346854
## 7	4.7871242	4.593306	9.9543854	2.588205	1.3463045	4.8071385	4.104127
## 8	3.4704458	5.118123	0.7617108	2.162661	0.0000000	2.1626612	3.112733
## 9	4.8607443	1.027933	0.0000000	1.622087	0.6035967	0.6035967	6.340035
## 10	4.9033517	6.358881	8.0498752	2.454597	10.3309299	5.1550327	0.000000

##	rs_ACTG2	rs_LGR6	rs_S100B	rs_ADH1C	rs_FUT3	rs_CARTPT	rs_POF1B	rs_PRSS21
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## 1	9.306799	8.888614	6.326514	5.336751	5.086915	0.514400	5.086915	2.806881
## 2	8.907640	7.758943	4.432004	1.959473	2.907025	0.000000	8.105783	1.663071
## 3	10.037829	4.733674	7.027823	6.070591	2.328779	0.000000	6.176534	2.524916

## 4	7.972268	4.347992	3.571992	3.956373	3.798019	1.935083	8.126013	1.386094
## 5	7.482947	7.158240	3.773817	3.338068	3.731411	0.000000	7.280925	1.370053
## 6	10.425177	5.073662	7.820841	2.211230	7.840563	0.000000	6.820603	5.909979
## 7	8.620570	7.551950	9.590868	1.550063	5.453109	0.000000	3.606916	4.787124
## 8	15.539413	10.361711	9.457540	0.000000	6.097204	0.000000	2.162661	2.046002
## 9	10.434667	8.810091	11.006586	0.000000	5.861715	0.000000	1.355355	0.000000
## 10	7.041990	2.222403	5.491879	3.430018	2.222403	0.000000	1.602694	0.000000
##	rs_FAM83E	rs_MAPK4	rs_PTCHD1	rs_IRX1	rs_SYNP02L	rs_GLYAT	rs_MYT1	
## 1	8.239206	2.618427	0.514400	7.925097	4.1463049	1.9995671	4.2144746	
## 2	8.366366	3.326077	3.101684	7.854341	7.4812917	0.0000000	1.0590091	
## 3	6.635168	2.697551	2.851719	6.656250	2.6138145	5.3400708	5.9043275	
## 4	8.754428	2.211293	1.593163	5.312128	7.3251210	0.0000000	11.0093477	
## 5	4.351459	1.575796	2.190868	5.553324	9.2241660	0.4815056	0.8418926	
## 6	4.137299	3.692595	8.321853	3.856538	2.0398403	1.0266584	1.6204457	
## 7	5.719118	7.589987	7.331332	5.781137	0.8248086	0.0000000	0.8248086	
## 8	3.327845	8.224046	9.366992	8.755528	0.4304994	2.1626612	1.7799321	
## 9	2.504849	7.706111	1.027933	8.794982	1.8470749	1.3553546	2.7473874	
## 10	6.866732	1.394898	1.602694	3.374414	8.7234033	3.2563616	5.8690200	
##	rs_PRODH	rs_SHISA9	rs_DEFB1	rs_VIPR2	rs_SOX2	rs_AR	rs_TP63	rs_IYD
## 1	10.459306	3.192147	7.7581366	5.674455	6.0562735	9.782902	9.756706	0.8928184
## 2	9.400867	3.520221	5.6050231	2.718833	0.7843365	9.716652	9.342673	0.0000000
## 3	3.537060	4.733674	5.3912659	4.562664	0.0000000	8.866230	9.073400	3.2347159
## 4	11.879359	1.144242	0.8535167	2.516040	2.6426092	7.883860	7.000904	0.4889263
## 5	7.101100	9.579065	3.6877214	3.733127	0.0000000	8.798103	6.494163	4.5596876
## 6	4.635691	4.137299	8.7427672	1.813771	0.6028369	1.026658	6.063317	4.0941347
## 7	7.368843	4.616175	8.7189181	3.260146	0.0000000	4.342178	8.481170	2.1605653
## 8	8.394740	9.973852	4.2276256	3.889717	1.6259250	1.779932	4.280214	1.2575538
## 9	6.748291	1.027933	3.4424658	2.034392	2.3663642	0.000000	3.509822	2.6312207
## 10	1.945570	8.071886	2.8300930	1.239276	0.0000000	7.403118	5.425046	0.4930324
##	rs_PLCH1	rs_SLC27A6	rs_HPX	rs_PP14571	rs_DLX2	rs_SPAG17	rs_PRG4	
## 1	3.1228880	6.472857	11.558061	6.2795493	9.2979895	6.8067945	7.377752	
## 2	6.6274959	5.785888	11.166573	1.0590091	1.4884122	0.4448791	5.850162	

## 3	5.0041778	6.442322	6.914276	3.6252354	2.3287790	3.6252354	7.679493
## 4	2.0797706	6.785672	6.676108	8.6611817	6.7590519	6.9963526	4.495906
## 5	8.0097463	4.004996	7.363076	7.6991532	0.4815056	4.3791912	4.270260
## 6	9.8027041	1.620446	4.605269	0.6028369	0.0000000	3.3696200	5.757877
## 7	9.7085865	4.865558	6.207278	3.3030501	0.0000000	1.7285301	4.327285
## 8	9.0276506	8.848792	2.162661	1.0308304	3.9957197	1.6259250	5.011581
## 9	8.0967821	1.355355	3.219215	0.0000000	5.1411957	4.4790688	1.631803
## 10	0.8598106	4.523587	6.684450	6.9113632	7.6366514	0.0000000	9.762606
##	rs_MMP7	rs_UGT8	rs_NEURL	rs_AFF3	rs_MS4A8B	rs_APOD	rs_TMEM213
## 1	8.035218	3.192147	9.914248	10.700865	10.3465821	12.848114	5.8785905
## 2	9.132237	6.500894	5.708289	12.023256	0.7843365	10.943454	0.4448791
## 3	9.003144	4.126056	7.476108	12.488857	2.9230351	14.961188	1.0686020
## 4	8.015645	2.211293	10.165350	13.848029	3.4171504	10.200399	1.9350825
## 5	8.849813	3.092157	6.506789	11.614757	4.6760530	10.821485	0.0000000
## 6	12.713106	7.968559	2.039840	5.651738	0.0000000	7.910652	8.3297591
## 7	15.139454	3.560507	3.057866	7.331332	0.0000000	11.007622	4.2862454
## 8	10.001522	11.747069	8.887441	7.144506	0.0000000	8.308755	4.5177355
## 9	10.876276	9.831700	5.053633	4.936129	0.0000000	13.258518	6.5704356
## 10	8.032021	2.090616	8.844703	12.334662	6.6787241	10.198654	3.3165947
##	rs_TLX1	rs_ZFP57	rs_FOSB	rs_TUBA3E	rs_CHGB	rs_HP	rs_FAM3D
## 1	1.1923204	1.1923204	8.858305	8.7171126	4.3110526	5.909766	2.4016305
## 2	0.0000000	4.7159318	7.080538	5.1998333	2.5983890	0.000000	1.2895984
## 3	0.4497462	0.7921057	9.590596	5.4161980	1.5002922	3.393787	1.5002922
## 4	2.3317912	0.0000000	12.053903	11.7168205	1.3860936	2.732920	2.0797706
## 5	0.0000000	0.4815056	10.106466	3.5961599	1.1300083	1.755828	0.8418926
## 6	5.2213783	1.8453495	12.566737	0.0000000	3.2170446	3.749330	13.5777995
## 7	6.7317738	8.6471810	6.606048	0.0000000	1.7285301	4.314479	5.4531093
## 8	8.5189191	4.9976718	6.382206	0.0000000	0.4304994	4.495670	3.6410026
## 9	9.7382575	0.0000000	7.189369	0.6035967	0.6035967	0.000000	10.0790311
## 10	0.0000000	1.6026944	8.246547	5.6406730	0.4930324	4.273046	1.1519887
##	rs_RERGL	rs_CXADRP3	rs_CHST9	rs_CD36	rs_CYP4F11	rs_CD177	rs_TBC1D3G
## 1	4.110973	4.5929832	5.5627797	9.675896	8.311023	2.806881	4.2795753

## 2	1.663071	3.3771237	6.0757915	5.757274	4.196552	2.314029	0.0000000
## 3	4.375255	0.4497462	3.5818212	11.117011	8.325114	3.490865	0.4497462
## 4	2.331791	2.8179097	3.3616140	9.712393	6.769759	1.144242	0.0000000
## 5	3.968948	4.7628272	2.5246655	7.566735	7.450636	3.220345	3.6426669
## 6	5.117433	0.0000000	8.7392692	9.662007	4.933776	2.502840	0.0000000
## 7	3.778902	1.5500634	5.4013881	7.313953	3.818871	3.123186	2.9894660
## 8	3.277003	0.4304994	4.9659228	8.425707	3.112733	3.224287	2.6359865
## 9	0.000000	1.0279325	2.0416986	5.861715	2.366364	1.355355	0.0000000
## 10	2.454597	2.7449791	0.4930324	11.294796	1.945570	1.394898	0.0000000
##	rs_NKX2.2	rs_S100A2	rs_SPDEF	rs_GLYATL1	rs_MMP10	rs_RELN	rs_SMOC1
## 1	6.7156477	6.637100	12.739878	8.3757172	3.258232	3.549681	4.4588938
## 2	0.0000000	6.824240	12.194769	4.7356197	5.823176	3.880078	1.9594734
## 3	1.0686020	7.824623	11.151756	2.7766936	7.202802	7.641172	7.6305591
## 4	0.0000000	3.361614	13.446186	0.4889263	2.732920	5.297404	3.6666884
## 5	0.0000000	6.069633	12.135014	7.0545598	4.720092	3.023522	3.5961599
## 6	1.0266584	7.968559	10.099970	6.1501677	1.353888	5.201179	11.5584406
## 7	0.0000000	10.008322	8.518062	3.3583541	4.422206	4.570074	9.1843656
## 8	0.4304994	7.060558	7.498085	4.1163315	3.112733	2.788999	10.8867451
## 9	0.0000000	10.824722	6.632190	3.4424658	3.635766	2.631221	6.5939035
## 10	0.0000000	3.193504	12.078721	9.0213665	2.090616	2.558023	0.8598106
##	rs_PCDHA11	rs_BCL11A	rs_RET	rs_ANKRD43	rs_WT1	rs_PLA2G2D	rs_KCNF1
## 1	6.867548	5.878590	11.166764	9.403969	5.970166	6.8012634	7.935233
## 2	5.219966	5.955006	9.390036	6.847047	5.018826	3.5202211	2.509696
## 3	6.130498	5.557364	9.682090	4.672906	2.219711	4.7336743	6.361191
## 4	7.901908	3.798019	15.360428	3.571992	1.593163	3.3616140	4.099060
## 5	6.718399	5.242080	9.921985	7.690878	5.164517	4.5837237	8.303672
## 6	5.191792	10.064072	4.778855	2.211230	2.629170	6.1814365	4.179208
## 7	6.623195	8.822094	7.621408	5.142544	5.740088	10.3108244	3.358354
## 8	6.219858	10.331661	8.245694	4.702486	4.355665	7.5790232	6.029696
## 9	0.000000	11.358232	4.374539	4.337947	2.854913	0.6035967	5.053633
## 10	1.661476	2.744979	7.206227	5.807381	3.483545	3.0589225	4.780415
##	rs_CCL18	rs_CHI3L2	rs_SLC7A10	rs_NTNG1	rs_FXYD1	rs_SLC6A15	rs_MKRN3

## 1	3.549681	6.394211	0.8994850	1.440208	7.0453938	1.4402081	0.5144000
## 2	2.415164	8.232453	0.4448791	2.509696	2.3140294	2.6819664	1.6630713
## 3	5.726376	6.116951	4.7390164	1.500292	5.4407064	1.6757256	0.7921057
## 4	4.404052	5.369568	0.0000000	0.000000	4.4312820	0.4889263	0.8535167
## 5	3.220345	6.531715	1.5967444	1.575796	2.9514572	0.8418926	1.5757964
## 6	6.400985	12.112058	2.3379965	2.745323	4.6356906	4.5741984	3.8039296
## 7	9.501582	11.409929	0.4786095	2.762306	3.9325526	0.0000000	5.1737071
## 8	9.685439	12.490507	2.2829735	3.898150	0.4304994	7.6631062	1.0308304
## 9	2.504849	8.267034	4.3981930	4.300395	4.3745387	0.6035967	0.0000000
## 10	6.996684	6.488909	3.0020904	1.394898	3.9696478	0.0000000	0.0000000
##	rs_ZNF385B	rs_CLDN8	rs_FAM83A	rs_SHISA2	rs_MYEOV	rs_SBSN	rs_AKR1C1
## 1	7.450650	6.778925	5.425714	8.727357	4.247396	0.5144000	6.812304
## 2	5.112166	8.654503	6.323593	9.464201	3.101684	0.4448791	4.479489
## 3	3.490865	6.702588	6.613773	10.255068	7.789275	0.7921057	8.495636
## 4	5.761620	4.560226	4.319127	3.755561	6.069582	0.0000000	3.210732
## 5	6.711543	6.655946	2.875603	13.040313	1.370053	0.4815056	5.013440
## 6	4.219935	9.049973	5.336965	5.681202	2.852818	6.9653537	9.218968
## 7	5.490715	6.523786	4.593306	7.355315	5.374817	4.5933060	5.204211
## 8	4.427365	2.859811	1.257554	5.674514	2.552943	5.1885987	4.057286
## 9	1.622087	6.937512	9.704518	8.630726	1.027933	3.8587966	8.524614
## 10	2.830093	4.979847	1.784295	12.310219	3.483545	1.9455702	7.660089
##	rs_ABCC12	rs_NOVA1	rs_SOX11	rs_FUT6	rs_SCRG1	rs_AK5	rs_TTC36
## 1	4.8715776	5.989750	8.139719	6.4867063	1.4402081	7.192084	7.0453938
## 2	5.2139421	6.753567	7.457774	2.0875986	1.9594734	8.681404	3.3771237
## 3	1.0686020	7.282926	4.652068	0.7921057	4.4971077	5.654857	6.4423215
## 4	2.2112926	4.947376	5.844991	10.4467262	1.5931625	4.064685	3.4171504
## 5	2.6207272	7.228529	5.819349	0.8418926	1.1300083	6.684012	7.5817316
## 6	0.6028369	4.407910	8.685759	5.8201253	4.7232800	3.507592	0.0000000
## 7	0.8248086	5.173707	7.944130	2.8420737	7.1315586	6.436547	0.8248086
## 8	0.0000000	2.991808	8.554047	4.4038608	9.4221462	3.680662	0.0000000
## 9	5.6689304	2.366364	9.141365	3.3718237	7.6953021	4.808205	0.0000000
## 10	0.0000000	7.677420	5.171435	0.4930324	0.8598106	4.922859	4.7804151

##	rs_TOX3	rs_IRX4	rs_CA3	rs_SCNN1G	rs_TPSD1	rs_PCDHA12	rs_TSPAN1
## 1	9.330033	4.973460	5.236382	5.960273	0.000000	4.469534	12.384874
## 2	8.843301	5.002662	4.735620	4.382902	6.622216	4.326890	11.031216
## 3	9.001086	7.890601	6.722415	6.268397	1.300534	7.945004	7.309785
## 4	11.438471	1.386094	3.417150	6.007608	3.918386	3.372325	10.186981
## 5	9.317603	2.951457	2.421748	3.092157	6.086555	7.047794	9.950571
## 6	8.503958	1.353888	6.640320	5.606377	2.952837	5.326933	4.219935
## 7	6.410621	3.778902	3.982327	6.487041	0.000000	6.902308	6.073229
## 8	5.814804	7.895760	4.408827	6.910171	0.000000	2.585900	4.900239
## 9	5.393838	8.397237	2.631221	2.366364	1.355355	0.000000	1.847075
## 10	8.431563	0.000000	3.193504	10.072780	11.029442	1.263936	10.004611
##	rs_LOC389033	rs_PART1	rs_CRYM	rs_HOXC10	rs_DBC1	rs_SLC6A11	rs_ACADL
## 1	4.592983	2.7157177	4.4867272	10.873868	4.3418577	0.5144000	2.4016305
## 2	4.811800	2.2052361	3.8442450	7.397245	5.2554516	0.7843365	1.2895984
## 3	0.000000	3.7481499	0.4497462	6.536291	5.0841408	0.0000000	4.2421528
## 4	2.732920	8.3278791	0.4889263	3.115233	3.2436691	6.5513422	0.8535167
## 5	4.510380	0.8418926	2.9514572	9.313117	3.0235215	0.8418926	1.3700527
## 6	0.000000	9.1987355	2.5028398	10.313772	6.0744626	3.6335242	6.4185880
## 7	0.000000	6.5596172	8.5628884	8.531657	5.2777654	5.5979900	5.3201597
## 8	0.000000	8.5857302	0.7617108	9.430168	8.0738829	7.6754292	4.8833422
## 9	0.000000	8.7642831	1.3553546	10.399028	1.0279325	7.8232641	0.0000000
## 10	3.969648	1.6026944	1.9455702	10.963859	0.4930324	0.0000000	1.3948982
##	rs_CXCL14	rs_MKX	rs_CLDN19	rs_FGF10	rs_MMP11	rs_NTS	rs_KCNG1
## 1	12.824365	4.037602	6.1977121	2.1463945	10.745470	0.0000000	3.2582325
## 2	11.758863	3.807509	5.0662485	5.4937946	13.784815	0.0000000	3.2182387
## 3	10.117423	3.999793	4.1260560	3.7868995	12.276160	1.6757256	2.7766936
## 4	9.383420	3.115233	3.1152330	1.1442422	9.209511	0.8535167	0.4889263
## 5	12.115824	9.830780	2.1908677	3.7314114	13.938613	0.0000000	1.7558276
## 6	9.480132	2.852818	0.0000000	0.0000000	12.337420	6.8337819	6.6222041
## 7	10.458898	2.762306	3.8188710	0.8248086	12.210058	1.3463045	2.3901724
## 8	6.732863	2.788999	1.0308304	0.0000000	10.853510	0.0000000	9.6921259
## 9	6.283424	2.854913	0.0000000	1.6220870	12.887717	0.6035967	8.8134269

## 10	16.811749	2.454597	0.4930324	4.0428019	14.094352	0.0000000	0.4930324
##	rs_PITX1	rs_DOK7	rs_CAPN9	rs_RASAL1	rs_MAGEA1	rs_RHCG	rs_SCGN
## 1	10.811269	7.040707	7.6879376	2.8926047	1.440208	3.3214231	1.4402081
## 2	8.982684	5.539320	6.7341216	1.4884122	0.0000000	0.7843365	7.3437205
## 3	7.181146	8.022284	4.1852719	3.7868995	4.126056	2.8517191	0.0000000
## 4	8.046792	9.195682	5.9238029	0.8535167	2.442997	1.1442422	10.7163845
## 5	9.455063	6.449079	3.3380678	3.2804070	0.0000000	0.4815056	0.8418926
## 6	7.622477	2.211230	5.4779525	7.6450827	0.0000000	6.4869219	0.0000000
## 7	7.456979	2.492571	0.4706150	7.2459386	0.0000000	7.5219914	1.3463045
## 8	8.540637	3.864107	0.4304994	7.6431679	0.0000000	4.1163315	1.0308304
## 9	8.934797	8.015113	0.6035967	9.5895586	0.0000000	6.8621997	0.0000000
## 10	2.558023	7.005859	1.3948982	1.7842946	0.0000000	3.1935037	1.9455702
##	rs_OSR1	rs_S100A1	rs_CITED1	rs_ADAMDEC1	rs_PLP1	rs_ANO3	rs_NELL2
## 1	8.847612	9.299952	6.8341360	5.086915	6.547437	5.909766	7.179348
## 2	6.512356	10.572261	0.4448791	4.357707	4.547912	2.415164	4.811800
## 3	6.896668	7.464203	9.0526800	5.784978	5.145066	3.786900	7.159161
## 4	5.603021	8.945981	2.8981890	1.774249	3.839274	1.144242	9.609607
## 5	5.099316	8.804510	4.1080309	3.931976	2.524666	1.575796	10.008875
## 6	5.606377	13.418392	5.0285250	8.083363	2.211230	2.039840	5.543595
## 7	5.263350	8.485833	4.5700743	9.563188	2.842074	0.470615	7.671391
## 8	10.061435	13.008714	3.3278454	7.842112	5.229288	2.788999	6.863543
## 9	10.309723	8.145242	2.0416986	4.261847	3.751592	0.0000000	2.631221
## 10	3.633152	7.542055	2.9866112	6.373133	2.558023	2.222403	11.047327
##	rs_CAPN13	rs_HAPLN1	rs_NMU	rs_EMX1	rs_GPRIN2	rs_C19orf21	rs_CSN3
## 1	9.7285707	3.050136	0.5144000	7.699877	4.992999	11.588886	1.4402081
## 2	7.9332002	6.052429	1.8188915	1.059009	5.493795	10.414763	1.2895984
## 3	8.5459224	3.289702	4.2697738	1.500292	2.328779	10.234627	0.4497462
## 4	7.9299348	2.732920	0.0000000	4.319127	3.303839	9.529968	1.9350825
## 5	9.6304502	7.557663	0.4815056	4.804332	6.811615	9.889209	0.0000000
## 6	4.4767446	2.629170	5.2011790	0.0000000	7.626270	1.845350	18.2317808
## 7	3.9325526	6.559617	1.3463045	1.550063	6.336824	4.921708	9.9854529
## 8	1.6259250	5.950788	7.0108537	1.257554	8.108831	7.112236	1.2575538

## 9	0.6035967	6.862200	6.4122192	0.000000	9.151945	5.924765	4.3003947
## 10	9.6444838	4.303130	0.4930324	3.633152	1.945570	10.288337	1.1519887
##	rs_C2orf82	rs_GABBR2	rs_PLA2G3	rs_CLGN	rs_MYOC	rs_GPR26	rs_VWDE
## 1	2.1463945	1.1923204	6.8287090	7.012264	0.5144000	0.0000000	6.1722275
## 2	0.4448791	0.4448791	5.2690294	10.338345	0.7843365	0.0000000	5.4704816
## 3	1.6757256	2.2197106	1.0686020	9.417736	5.7063012	0.4497462	3.5370599
## 4	1.3860936	0.0000000	0.4889263	6.575954	1.7742494	1.5931625	5.9333578
## 5	0.8418926	0.0000000	3.4469046	7.539343	0.0000000	2.3109217	1.3700527
## 6	4.9580538	7.6928798	0.0000000	5.710076	0.6028369	2.0398403	6.4359769
## 7	2.2799170	2.2799170	0.4706150	2.917642	1.5500634	6.0732290	2.2799170
## 8	0.7617108	11.4409216	0.7617108	3.558243	0.7617108	1.9191112	6.8933901
## 9	2.3663642	4.9114375	5.5619310	2.041699	0.6035967	1.0279325	1.0279325
## 10	0.0000000	0.0000000	4.0428019	7.313581	2.6545272	5.5805284	0.4930324
##	rs_ANGPTL7	rs_ACTA1	rs_LOC283392	rs_C4BPA	rs_MAOB	rs_KCNJ16	rs_GPX2
## 1	3.050136	3.381962	3.2537019	1.4402081	9.870020	3.3214231	4.037602
## 2	0.000000	2.760945	1.2485348	1.8188915	9.315944	2.4151637	4.332071
## 3	1.675726	4.672906	4.3926952	0.0000000	8.973005	1.9732072	7.087244
## 4	1.774249	3.180880	0.9288061	0.8535167	6.911871	0.4889263	4.608744
## 5	0.000000	2.795538	2.0011537	0.0000000	12.242841	1.1300083	3.894032
## 6	3.633524	2.952837	1.9898656	4.2980864	8.797608	7.6636542	1.353888
## 7	1.887369	2.279917	0.0000000	6.1613758	9.335834	3.5125556	4.787124
## 8	2.046002	2.162661	0.0000000	0.7617108	6.464041	2.7889989	1.453491
## 9	1.027933	3.694836	0.0000000	0.0000000	8.547031	4.1815081	2.041699
## 10	0.000000	3.852468	2.1957255	0.0000000	10.748437	1.1519887	3.256362
##	rs_SLC15A1	rs_DEGS2	rs_MUC2	rs_CALB2	rs_CHRM1	rs_CCL14	rs_PCDH10
## 1	0.0000000	10.471111	2.9735194	5.396663	7.9327061	10.113719	1.8360857
## 2	0.7843365	9.647524	0.0000000	7.734687	2.5096958	6.201471	5.6882195
## 3	0.7921057	8.776414	0.4497462	7.452198	2.9909912	9.847590	1.8321204
## 4	0.0000000	9.416161	16.8518069	4.535344	5.2825251	7.502432	0.4889263
## 5	0.4815056	11.333732	0.0000000	5.541100	3.4469046	7.622911	3.2203454
## 6	6.7735019	5.859321	0.0000000	10.545213	7.9535446	7.228809	2.6291701
## 7	0.0000000	4.546456	0.0000000	9.453985	5.0615559	6.989920	0.0000000

## 8	10.6997243	3.719260	0.7617108	8.658302	8.8596320	5.255792	2.8598106
## 9	4.5765282	5.098078	0.0000000	8.333604	7.5185454	4.960410	0.0000000
## 10	0.8598106	10.469631	3.3165947	6.192044	0.4930324	7.519776	1.1519887
##	rs_CTNND2	rs_CECR2	rs_SPINK8	rs_LY6K	rs_PEG3	rs_CST2	rs_FERMT1
## 1	9.003857	4.6433136	3.321423	7.819616	8.197286	7.526356	6.222754
## 2	8.005946	1.2895984	4.046980	3.949171	8.314152	2.509696	6.748730
## 3	8.879737	5.7559745	0.0000000	6.944583	12.233405	3.932260	6.536291
## 4	8.827992	1.3860936	0.0000000	2.817910	5.409554	7.893683	3.303839
## 5	9.705622	5.1960444	4.559688	3.596160	11.649508	6.094941	4.140803
## 6	4.635691	3.4402612	4.137299	8.126844	10.278041	1.026658	7.314651
## 7	4.546456	1.3463045	0.0000000	10.229742	5.952373	4.725365	7.886516
## 8	7.758862	4.0572856	0.0000000	9.450387	13.164389	2.046002	6.552213
## 9	1.027933	2.3663642	0.0000000	4.607608	10.304955	3.858797	8.083027
## 10	9.702071	0.8598106	1.151989	4.497804	7.855320	4.444813	2.090616
##	rs_MMRN1	rs_SERHL2	rs_SEZ6L	rs_TNNI3	rs_EREG	rs_ADAMTS15	rs_PAX2
## 1	9.383757	7.152578	3.699918	3.4400619	2.2796496	7.772341	4.7845563
## 2	5.636787	7.557201	2.760945	0.7843365	1.8188915	6.579271	2.5983890
## 3	10.228042	8.867722	1.675726	4.7533746	0.7921057	6.154478	5.0841408
## 4	7.823475	8.904353	4.319127	1.1442422	0.8535167	8.107140	0.4889263
## 5	6.598121	8.541931	2.190868	5.7989603	2.5246655	7.166220	4.6073658
## 6	7.266864	6.170049	1.353888	0.0000000	3.4402612	2.852818	1.3538878
## 7	4.522451	4.987375	1.109026	0.0000000	3.5125556	3.411603	0.0000000
## 8	3.719260	4.332443	0.0000000	0.0000000	3.5150185	2.714531	1.9191112
## 9	2.041699	4.587173	0.0000000	0.0000000	0.0000000	1.355355	1.6220870
## 10	4.922859	6.162317	1.602694	0.0000000	0.8598106	4.998353	0.4930324
##	rs_TNNT3	rs_B3GNT3	rs_LOC440905	rs_CD19	rs_ADH1A	rs_RIMS2	rs_ALOX15
## 1	3.9994679	3.601518	10.139717	4.4867272	3.601518	1.6516832	1.1923204
## 2	1.2895984	3.731096	5.877361	0.7843365	0.0000000	1.0590091	0.0000000
## 3	6.2752269	4.753375	3.748150	2.7766936	4.733674	2.9230351	0.7921057
## 4	2.4429966	5.970962	7.101809	1.1442422	2.331791	1.1442422	0.4889263
## 5	1.1300083	3.931976	3.023522	4.5352443	0.0000000	1.1300083	7.5082844
## 6	3.4402612	11.393281	5.590937	7.1505475	1.353888	5.9099795	3.0463863

## 7	2.4925711	5.620783	3.057866	8.2970832	0.470615	3.8956419	2.2799170
## 8	0.4304994	6.435344	2.464825	4.3309456	1.257554	5.6843026	2.3709454
## 9	0.0000000	8.370308	3.574162	1.6220870	0.0000000	0.6035967	1.0279325
## 10	4.7588681	2.910464	7.186187	1.3948982	3.127782	0.0000000	2.6545272
##	rs_ADAMTS19	rs_NTRK3	rs_RNF183	rs_FLT3	rs_TNMD	rs_GPR12	rs_IBSP
## 1	1.6516832	6.778925	6.6183503	8.539149	1.4402081	1.999567	3.258232
## 2	0.4448791	6.143689	3.8800782	10.573971	0.7843365	2.598389	3.949171
## 3	5.1745902	5.590599	2.6138145	8.894229	5.4885054	2.613815	5.036697
## 4	5.9802104	4.319127	0.8535167	9.351701	1.5931625	1.935083	4.984617
## 5	3.5961599	3.498391	3.6426669	2.710790	1.1300083	1.575796	3.498391
## 6	2.0398403	5.970900	3.0463863	4.179208	1.0266584	6.085525	5.028525
## 7	0.4706150	7.238589	2.1605653	6.259048	1.1090262	3.737784	4.546456
## 8	0.4304994	9.917385	1.0308304	4.759166	7.8766759	9.367751	3.829231
## 9	0.0000000	8.113117	3.5741621	2.747387	3.1363883	3.442466	4.479069
## 10	1.3948982	9.204869	2.5580227	9.128164	4.6693046	0.0000000	6.455811
##	rs_COL4A6	rs_CLSTN2	rs_FIBCD1	rs_CES1	rs_CADM3	rs_AKR1B15	rs_PCDHA10
## 1	6.938599	10.995101	1.6516832	8.263544	7.837398	0.514400	6.106474
## 2	6.399621	8.758018	5.8046525	8.367944	4.715932	3.807509	4.990424
## 3	5.981524	8.896445	2.8517191	9.108241	7.813570	4.587683	5.658517
## 4	3.620117	11.659140	1.9350825	6.069582	3.689433	0.0000000	3.215119
## 5	4.433106	9.503904	4.1080309	7.882304	6.107181	3.157674	7.495481
## 6	3.633524	5.355362	1.3538878	6.337631	5.602688	6.780326	6.131719
## 7	4.787124	5.078123	3.4629684	6.634328	6.607932	2.677892	5.679717
## 8	1.257554	5.344892	3.8641069	6.901806	5.288248	2.464825	2.717583
## 9	3.509822	5.030883	1.0279325	2.213130	1.622087	3.048533	0.0000000
## 10	1.602694	10.967973	0.4930324	5.947311	5.127720	2.454597	0.0000000
##	rs_HIF3A	rs_GPM6A	rs_CXCR2P1	rs_DACH1	rs_C1orf95	rs_HEPACAM	rs_TMEM45B
## 1	4.913196	5.1228342	4.6183679	8.527472	3.878617	2.8400402	6.465881
## 2	1.663071	1.8188915	0.7843365	8.870273	3.218239	0.4448791	8.195606
## 3	6.176534	3.9997926	1.9732072	7.430948	8.984512	4.8199032	9.412324
## 4	2.898189	11.6046749	3.6666884	9.340074	3.243669	1.1442422	6.931077
## 5	1.755828	2.8756032	0.0000000	7.440800	2.795538	0.4815056	8.958362

## 6	6.916635	2.9528367	6.1182081	4.476745	2.629170	1.1765781	3.440261
## 7	2.279917	3.9325526	7.5159245	4.865558	2.989466	2.3901724	2.160565
## 8	9.257320	0.7617108	7.3491237	3.719260	8.248996	1.6013637	1.257554
## 9	6.321410	0.0000000	1.8470749	1.847075	5.030883	0.0000000	3.219215
## 10	2.910464	0.8598106	1.6026944	9.140715	5.311227	2.8820561	7.403118

##	rs_VIT	rs_CXCL2	rs_FM02	rs_HBB	rs_CDSN	rs_KCNIP2	rs_CCL28	rs_C8orf85
## 1	6.928486	2.806881	9.210977	6.189267	7.233743	5.699885	5.367018	7.588688
## 2	2.760945	3.101684	7.387943	5.097021	7.568965	2.205236	6.028684	6.257028
## 3	5.300446	2.430178	5.036697	10.921911	6.478281	8.144812	7.209948	6.288790
## 4	5.923803	3.798019	7.350307	7.595710	4.484248	4.723340	6.563701	6.366195
## 5	3.280407	3.731411	6.487808	4.433106	7.383759	4.459327	6.621529	8.344690
## 6	7.568311	8.326523	10.047197	4.958054	3.633524	5.621656	9.305475	6.107397
## 7	4.167422	6.678451	12.749305	4.766834	4.104127	5.110693	6.894939	9.083367
## 8	8.079458	3.376971	6.327035	5.307378	4.683090	5.307378	5.229288	13.510640
## 9	9.971152	2.504849	6.340035	4.607608	4.544770	5.183062	2.854913	8.598215
## 10	3.256362	3.852468	6.632079	7.225993	5.266119	5.753923	5.104672	10.773502

##	rs_CRYAB	rs_LOC84740	rs_PPAPDC1A	rs_IL33	rs_AQP7P1	rs_MAGEA4	rs_ACE2
## 1	9.250073	3.260809	5.769518	9.165420	3.4400619	0.0000000	2.6184266
## 2	8.412970	2.418109	9.490515	6.044558	0.0000000	0.0000000	0.4448791
## 3	10.288787	1.974529	5.273411	8.235153	4.2968758	0.4497462	2.3287790
## 4	6.687447	2.445144	3.361614	7.204031	1.9350825	0.0000000	0.8535167
## 5	7.608338	2.314378	8.330555	7.166220	0.0000000	0.0000000	0.4815056
## 6	12.445739	11.232794	6.271366	7.295726	3.2953410	0.0000000	8.5525972
## 7	9.674269	7.999359	6.694656	7.478977	1.3463045	0.4706150	6.6675459
## 8	10.826690	8.507895	5.451920	5.884398	2.4648251	0.0000000	3.2242873
## 9	9.767791	4.480743	9.481515	4.374539	0.6035967	1.0279325	3.1363883
## 10	8.604614	1.151989	7.893047	7.028547	3.4300176	0.0000000	1.1519887

##	rs_MYH11	rs_LOC100124692	rs_HS3ST4	rs_SELP	rs_PADI3	rs_ACVR1C	rs_AMY1A
## 1	11.838799	0.0000000	1.6516832	7.769511	4.6183679	5.012278	0.514400
## 2	11.078597	3.5649390	2.8358432	4.735620	1.2895984	2.314029	0.000000
## 3	11.843764	2.1017173	0.0000000	7.635876	1.5002922	6.805251	1.500292
## 4	10.230389	2.0797706	0.8535167	6.822135	0.4889263	4.484248	1.774249

##	5	9.599368		0.0000000	2.3109217	6.468574	1.3700527	2.710790	1.575796
##	6	11.815484		3.9563169	0.0000000	7.466218	3.8565376	3.907285	7.453467
##	7	11.255411		0.8248086	4.3421778	8.150102	0.0000000	4.939946	7.151262
##	8	8.558937		7.0717884	6.2890469	5.074124	0.0000000	3.376971	6.979393
##	9	7.952735		3.8587966	0.0000000	2.041699	1.0279325	0.000000	0.000000
##	10	7.983867		1.9455702	0.0000000	6.167723	0.0000000	4.622351	1.151989
##		rs_OXTR	rs_DEFB132	rs_APOB	rs_SPHKAP	rs_DPYSL5	rs_HEPN1	cn_ISG15	cn_PLCH2
##	1	9.080063	5.321376	0.8928184	1.6516832	0.000000	2.860625	0	0
##	2	5.505313	2.509696	0.4448791	3.7698035	0.000000	0.000000	-1	-1
##	3	6.335281	4.296876	3.7083307	0.0000000	0.000000	4.554828	0	0
##	4	7.223634	0.000000	1.5931625	0.8535167	0.000000	0.000000	0	0
##	5	6.382129	3.092157	0.0000000	0.8418926	0.000000	1.755828	0	0
##	6	8.217621	0.000000	0.6028369	3.1342374	3.692595	0.859413	1	1
##	7	7.289266	0.000000	0.8248086	1.5500634	2.677892	0.000000	0	0
##	8	7.376553	0.000000	1.2575538	1.9191112	8.543329	2.565719	0	0
##	9	5.973294	0.000000	0.0000000	2.3663642	4.808205	1.027933	2	2
##	10	7.955946	2.986611	1.3948982	0.8598106	0.000000	2.139469	0	0
##		cn_SAMD11	cn_TNFRSF18	cn_BAI2	cn_TEKT2	cn_DNALI1	cn_RSP01	cn_KIAA0754	
##	1	0	0	1	1	1	1	1	
##	2	-1	-1	0	0	0	0	0	
##	3	0	0	0	0	0	0	0	
##	4	0	0	0	0	0	0	0	
##	5	0	0	0	0	0	0	0	
##	6	1	1	0	0	0	0	0	
##	7	0	0	0	0	0	0	0	
##	8	0	0	1	2	2	2	0	
##	9	2	2	-1	2	2	2	1	
##	10	0	0	0	0	0	0	0	
##		cn_KCNQ4	cn_CITED4	cn_EDN2	cn_CLDN19	cn_CDC20	cn_ARTN	cn_HPDL	cn_TSPAN1
##	1	1	1	1	1	1	1	1	1
##	2	0	0	0	0	0	0	0	0
##	3	0	0	0	0	0	0	0	0

## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	1
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	1	1
## 9	1	1	1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0

cn_CYP4B1 cn_CYP4Z2P cn_CYP4X1 cn_CYP4Z1 cn_PDZK1IP1 cn_RAB3B cn_DIO1

## 1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	1
## 9	-1	-1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0

cn_TTC22 cn_PCSK9 cn_PRKAA2 cn_C1orf168 cn_KANK4 cn_FOXD3 cn_IL12RB2

## 1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	-1	2	2	2
## 10	0	0	0	0	0	0	0

cn_DIRAS3 cn_C1orf173 cn_SLC44A5 cn_ST6GALNAC5 cn_AK5 cn_PTGFR cn_DNASE2B

## 1	1	-1	-1	-1	-1	-1	-1
## 2	0	0	0	0	0	0	0

## 3	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	2	1	2	2	2	2	2
## 10	0	0	0	0	0	0	0

##	cn_LPAR3	cn_CLCA2	cn_CLCA4	cn_GBP5	cn_TGFBR3	cn_BRDT	cn_EPHX4	cn_ABCA4
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## 1	-1	-1	-1	-1	-1	-1	-1	-1
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	1	1
## 9	2	1	1	1	1	1	1	2
## 10	0	0	0	0	0	0	0	0

##	cn_COL11A1	cn_AMY1A	cn_NTNG1	cn_NBPF4	cn_NBPF6	cn_GSTM1	cn_GSTM2	cn_GSTM5
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## 1	-1	-1	-1	-1	-1	-1	-1	-1
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	1	1	1	1	1	1
## 7	0	0	0	0	0	0	0	0
## 8	1	1	-1	-1	-1	-1	-1	-1
## 9	1	0	2	2	2	2	2	2
## 10	0	0	0	0	0	0	0	0

##	cn_GSTM3	cn_SLC6A17	cn_CHI3L2	cn_KCND3	cn_FAM19A3	cn_AMPD1	cn_CASQ2	cn_VTCN1
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## 1	-1	-1	-1	-1	-1	-1	-1	1
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## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	1	1	1	1	1	1	1	1
## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	1	1	1
## 9	2	2	0	0	1	0	1	2
## 10	0	0	0	0	0	0	0	0

cn_SPAG17 cn_HSD3B2 cn_HMGCS2 cn_FM05 cn_PDZK1P1 cn_PDZK1 cn_ZNF695

## 1	-1	-1	1	1	1	1	2
## 2	0	0	0	0	0	0	1
## 3	0	0	0	1	1	1	1
## 4	0	0	0	0	0	0	1
## 5	0	0	0	0	0	0	0
## 6	1	1	1	1	1	1	1
## 7	0	0	0	0	0	0	1
## 8	1	1	1	2	2	2	2
## 9	2	2	2	2	2	2	1
## 10	0	0	0	0	0	0	0

cn_TRIM58 cn_CHL1 cn_CNTN4 cn_LRRN1 cn_EGOT cn_ROBO2 cn_CADM2 cn_NPFFR2

## 1	2	0	0	0	0	0	0
## 2	1	0	0	0	0	0	0
## 3	1	0	0	0	0	0	1
## 4	1	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	1	1	1	1	1	-1	2
## 7	1	0	0	0	0	0	0
## 8	2	2	2	2	2	-1	2
## 9	2	-1	-1	1	1	-1	0
## 10	0	0	0	0	0	0	0

cn_ALB cn_AFP cn_RASSF6 cn_IL8 cn_CXCL1 cn_CXCL5 cn_CXCL2 cn_EREG cn_AREG

## 1	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0	0	0
## 8	2	2	2	2	2	2	2	2	2
## 9	0	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0	0

##	cn_CDKL2	cn_CXCL9	cn_ART3	cn_CXCL10	cn_CXCL11	cn_CCDC158	cn_CXCL13
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## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	2	2	2	2	2	-1	-1
## 7	0	0	0	0	0	0	0
## 8	2	2	2	2	2	2	2
## 9	2	1	1	1	1	1	2
## 10	0	0	0	0	0	0	0

##	cn_LRRC14B	cn_PLEKHG4B	cn_IRX4	cn_C5orf38	cn_IRX2	cn_IRX1	cn_ADAMTS16
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## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0
## 8	2	2	1	1	1	1	1
## 9	0	0	0	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0

##	cn_ADCY2	cn_ROPN1L	cn_CTNND2	cn_DNAH5	cn_MARCH11	cn_NPR3	cn_IL7R	cn_CAPSL
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## 1	0	0	0	0	0	0	0	0
------	---	---	---	---	---	---	---	---

## 2	0	0	0	0	0	0	0	0
------	---	---	---	---	---	---	---	---

## 3	1	1	1	1	1	1	1	1
------	---	---	---	---	---	---	---	---

## 4	0	0	0	0	0	0	0	0
------	---	---	---	---	---	---	---	---

## 5	0	0	0	0	0	0	0	0
------	---	---	---	---	---	---	---	---

## 6	2	2	2	2	2	-1	-1	-1
------	---	---	---	---	---	----	----	----

## 7	0	0	0	0	0	0	0	0
------	---	---	---	---	---	---	---	---

## 8	1	1	2	2	2	1	1	1
------	---	---	---	---	---	---	---	---

## 9	-1	-1	-1	0	-1	-1	0	0
------	----	----	----	---	----	----	---	---

## 10	0	0	0	0	0	0	0	0
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##	cn_UGT3A2	cn_RANBP3L	cn_FGF10	cn_GZMK	cn_CDC20B	cn_CCNO	cn_IL6ST	cn_PART1
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## 1	0	0	0	0	0	0	0	0
------	---	---	---	---	---	---	---	---

## 2	0	0	0	0	0	0	0	0
------	---	---	---	---	---	---	---	---

## 3	1	1	1	1	1	1	1	1
------	---	---	---	---	---	---	---	---

## 4	0	0	0	0	0	0	0	0
------	---	---	---	---	---	---	---	---

## 5	0	0	0	0	0	0	0	0
------	---	---	---	---	---	---	---	---

## 6	-1	-1	-1	-1	-1	-1	-1	-1
------	----	----	----	----	----	----	----	----

## 7	0	0	0	0	0	0	0	-1
------	---	---	---	---	---	---	---	----

## 8	1	1	1	-1	-1	-1	-1	-1
------	---	---	---	----	----	----	----	----

## 9	0	0	0	-1	-1	-1	0	2
------	---	---	---	----	----	----	---	---

## 10	0	0	0	0	0	0	0	0
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##	cn_GTF2H2B	cn_CARTPT	cn_FOXD1	cn_F2RL2	cn_PDE8B	cn_THBS4	cn_CKMT2	cn_HAPLN1
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## 1	0	0	0	0	0	0	0	0
------	---	---	---	---	---	---	---	---

## 2	0	0	0	0	0	0	0	0
------	---	---	---	---	---	---	---	---

## 3	1	1	1	1	1	1	1	1
------	---	---	---	---	---	---	---	---

## 4	0	0	0	0	0	0	0	0
------	---	---	---	---	---	---	---	---

## 5	0	0	0	0	0	0	0	0
------	---	---	---	---	---	---	---	---

## 6	-1	-1	-1	-1	-1	-1	-1	-1
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## 7	-1	-1	-1	-1	-1	-1	-1	-1
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## 8	-1	-1	-1	-1	-1	-1	-1	-1
------	----	----	----	----	----	----	----	----

## 9	-1	0	-1	-1	0	-1	0	-1
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## 10	0	0	0	0	0	0	0	0
##	cn_EDIL3	cn_GPR98	cn_FAM81B	cn_C5orf27	cn_PCSK1	cn_ERAP2	cn_EFNA5	cn_TSLP
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-2	-1	-1	-1
## 7	-1	-1	-1	-1	-1	-1	-1	-1
## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	0	0	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0
##	cn_TRIM36	cn_CDO1	cn_AQPEP	cn_MEGF10	cn_FBN2	cn_SLC27A6	cn_ADAMTS19	
## 1	0	0	0	0	0	0	0	
## 2	0	0	0	0	0	0	0	
## 3	1	1	1	1	1	1	1	
## 4	0	0	0	0	0	0	0	
## 5	0	0	0	0	0	0	0	
## 6	-1	-1	-1	-1	-1	-1	-1	
## 7	-1	-1	-1	-1	-1	-1	-1	
## 8	-1	-1	-1	-1	-1	-1	-1	
## 9	-1	-1	-1	-1	-1	-1	-1	
## 10	0	0	0	0	0	0	0	
##	cn_SHROOM1	cn_FSTL4	cn_PITX1	cn_C5orf20	cn_CXCL14	cn_PCDHA1	cn_PCDHA3	
## 1	0	0	0	0	0	0	0	
## 2	0	0	0	-1	-1	-1	-1	
## 3	1	1	1	1	1	1	1	
## 4	0	0	0	0	0	0	0	
## 5	0	0	0	0	0	0	0	
## 6	-1	-1	-1	-1	-1	0	0	
## 7	-1	-1	-1	-1	-1	-1	-1	
## 8	-1	-1	-1	-1	-1	-1	-1	

## 9	-1	-1	0	0	0	-1	-1	
## 10	0	0	0	0	0	0	0	
##	cn_PCDHA4	cn_PCDHA10	cn_PCDHA11	cn_PCDHA5	cn_PCDHA6	cn_PCDHA12	cn_PCDHA13	
## 1	0	0	0	0	0	0	0	
## 2	-1	-1	-1	-1	-1	-1	-1	
## 3	1	1	1	1	1	1	1	
## 4	0	0	0	0	0	0	0	
## 5	0	0	0	0	0	0	0	
## 6	0	0	0	0	0	0	0	
## 7	-1	-1	-1	-1	-1	-1	-1	
## 8	-1	-1	-1	-1	-1	-1	-1	
## 9	-1	-1	-1	-1	-1	-1	-1	
## 10	0	0	0	0	0	0	0	
##	cn_IL17B	cn_GPX3	cn_FAT2	cn_GRIA1	cn_ITK	cn_FABP6	cn_ATP10B	cn_FBLL1
## 1	0	0	0	0	0	0	0	
## 2	-1	-1	-1	-1	-1	-1	-1	
## 3	1	1	1	1	1	1	1	
## 4	0	0	0	0	0	0	0	
## 5	0	0	0	0	0	0	0	
## 6	0	0	0	0	0	0	0	
## 7	-1	-1	-1	-1	-1	-1	-1	
## 8	-1	-1	-1	-1	-1	-1	-1	
## 9	-1	-1	-1	-1	-1	2	2	
## 10	0	0	0	0	0	0	0	
##	cn_FAM196B	cn_FOXP1	cn_GABRP	cn_STC2	cn_MSX2	cn_CPLX2	cn_UNC5A	cn_FGFR4
## 1	0	0	0	0	0	0	0	
## 2	-1	-1	-1	-1	-1	-1	0	
## 3	1	1	1	1	1	1	1	
## 4	0	0	0	0	0	0	0	
## 5	0	0	0	0	0	0	0	
## 6	0	0	0	0	0	0	0	
## 7	-1	-1	-1	-1	-1	-1	-1	

## 8	-1	-1	-1	-1	-1	1	2	2
## 9	-1	-1	0	0	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0

##	cn_RASGEF1C	cn_SCGB3A1	cn_BTNL9	cn_IRF4	cn_FOXC1	cn_TUBB2B	cn_ELOVL2	
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## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	1	1	1	-1	-1	-1	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	0	0	0	2	2	2	2
## 7	-1	-1	-1	0	0	0	0
## 8	2	2	-1	1	1	1	1
## 9	-1	-1	-1	0	0	0	0
## 10	0	0	0	0	0	0	0

##	cn_RNF182	cn_RBM24	cn_ID4	cn_DCDC2	cn_KIAA0319	cn_LRFN2	cn_PGC	cn_GNMT
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## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	2	2	2	2	2	-1	-1	-1
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	1	1
## 9	0	0	0	1	1	0	2	2
## 10	0	0	0	0	0	0	0	0

##	cn_DLK2	cn_C6orf223	cn_GSTA1	cn_HMGCLL1	cn_BMP5	cn_COL9A1	cn_RIMS1	cn_KCNQ5
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## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	0	0	2

## 6	2	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	2	0	0	-1	-1	-1	-1	2
## 10	-1	0	0	0	0	0	0	0

##	cn_ESR1	cn_PNLDC1	cn_SLC22A3	cn_DACT2	cn_FRMD1	cn_AMZ1	cn_ITGB8	cn_ABCB5
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## 1	0	0	0	0	0	1	1	1
## 2	0	-1	-1	-1	-1	0	0	0
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	2	2	2	1	1	1	1	1
## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	1	-1	-1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0

##	cn_DNAH11	cn_MGAM	cn_PRSS1	cn_PIP	cn_CNTNAP2	cn_KCNH2	cn_WDR86	cn_DPP6
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## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	1	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	1	2	2	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	-1	0	0	0	1	1	1	1
## 9	-1	1	1	1	2	-1	-1	1
## 10	0	0	0	0	0	0	0	0

##	cn_EN2	cn_MNX1	cn_PTPRN2	cn_VIPR2	cn_CSMD1	cn_DEFB1	cn_BLK	cn_GATA4
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## 1	1	1	1	1	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	1	1	1	1
## 4	0	0	0	0	0	0	0	0

## 5	0	0	0	0	-2	-2	-2	-2	
## 6	0	-1	-1	-1	-1	-1	-1	-1	
## 7	0	0	0	0	-1	-1	-1	-1	
## 8	1	1	1	1	-1	-1	-1	-1	
## 9	0	0	0	0	-1	-1	-1	-1	
## 10	0	0	0	0	2	-1	-1	-1	
##	cn_SLC7A2	cn_FGL1	cn_NAT1	cn_LPL	cn_NPM2	cn_HR	cn_EGR3	cn_PEBP4	cn_ADAMDEC1
## 1	0	0	0	0	0	0	0	0	
## 2	0	0	0	0	0	0	0	0	
## 3	1	1	1	1	1	1	1	1	
## 4	0	0	0	0	0	0	0	0	
## 5	-2	-2	-2	-2	-2	-2	-2	-2	
## 6	-1	-1	-1	-1	-1	-1	-1	-1	
## 7	-1	-1	-1	-1	-1	-1	-1	-1	
## 8	-1	-1	-1	-1	-1	-1	-1	-1	
## 9	2	2	2	2	-1	-1	-1	1	
## 10	-1	-1	-1	-1	-1	-1	-1	-1	
##	cn_NEFL	cn_SCARA5	cn_NRG1	cn_ADAM32	cn_IDO1	cn_C8orf4	cn_ZMAT4	cn_SFRP1	
## 1	-2	-2	-2	1	-2	-2	-2	-2	
## 2	0	0	0	0	0	0	0	0	
## 3	1	1	1	1	1	1	1	1	
## 4	0	0	0	0	0	0	0	0	
## 5	-2	-2	-2	1	1	1	1	1	
## 6	-1	-1	-1	-1	-1	-1	-1	-1	
## 7	-1	-1	-1	-1	-1	-1	-1	-1	
## 8	-1	-1	-1	1	1	1	1	1	
## 9	0	-1	-1	-1	-1	-1	-1	-1	
## 10	-1	-1	-1	2	2	2	2	0	
##	cn_ANK1	cn_EFCAB1	cn_PXDNL	cn_OPRK1	cn_RP1	cn_SDR16C5	cn_PENK	cn_CA8	
## 1	-2	1	1	1	1	1	1	1	
## 2	0	0	0	0	0	0	0	0	
## 3	1	1	1	1	1	1	1	1	

## 4	0	0	0	0	0	0	0	0
## 5	1	1	1	1	1	1	1	1
## 6	-1	1	1	1	1	1	1	1
## 7	-1	2	2	2	2	2	2	2
## 8	1	1	0	0	0	0	0	0
## 9	-1	-1	-1	0	0	2	2	1
## 10	2	0	0	0	0	0	0	0
##	cn_TRIM55	cn_C8orf46	cn_CPA6	cn_PREX2	cn_C8orf34	cn_XKR9	cn_EYA1	cn_TRPA1
## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	1	1	1	1	1	1	1	1
## 6	2	1	1	1	1	1	1	1
## 7	2	2	2	2	2	2	2	2
## 8	-1	-1	-1	-1	-1	-1	-1	1
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0
##	cn_PI15	cn_CRISPLD1	cn_HNF4G	cn_PKIA	cn_FABP4	cn_CA3	cn_CA2	cn_ATP6VOD2
## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	1	1	1	1	1
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	1	1	1	1	1	1	1	1
## 6	0	0	0	0	0	0	0	0
## 7	2	2	2	2	2	2	2	2
## 8	1	1	1	1	1	1	1	1
## 9	2	2	2	2	0	1	1	1
## 10	0	0	0	0	2	0	0	0
##	cn_MATN2	cn_C8orf47	cn_RGS22	cn_RIMS2	cn_PKHD1L1	cn_CSMD3	cn_SLC30A8	
## 1	1	1	1	1	1	1		1
## 2	1	1	1	1	1	1		1

## 3	1	1	1	1	1	1	1	
## 4	0	0	0	0	0	0	0	
## 5	1	1	1	1	1	1	1	
## 6	0	0	0	0	0	0	2	
## 7	2	2	2	2	2	2	2	
## 8	1	1	2	2	2	2	2	
## 9	2	2	2	2	0	0	0	
## 10	2	2	2	2	2	2	2	
##	cn_TNFRSF11B	cn_COL14A1	cn_FAM83A	cn_GSDMC	cn_FAM135B	cn_COL22A1	cn_BAI1	
## 1	1	1	1	1	1	1	1	
## 2	1	1	1	1	1	1	1	
## 3	1	1	1	1	1	1	1	
## 4	0	0	0	0	0	0	0	
## 5	1	1	1	1	1	1	1	
## 6	2	2	2	2	2	2	2	
## 7	2	2	2	2	2	2	2	
## 8	2	2	2	2	2	2	2	
## 9	2	2	2	-1	0	0	1	
## 10	2	2	2	2	2	2	2	
##	cn_ARC	cn_PSCA	cn_LY6K	cn_SLURP1	cn_LY6D	cn_GPIHBP1	cn_MAPK15	cn_GPT
## 1	1	1	1	1	1	1	1	1
## 2	1	1	1	1	1	1	1	1
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	1	1	1	1	1	1	1	1
## 6	2	2	2	2	2	2	2	2
## 7	2	2	2	2	2	2	2	2
## 8	2	2	2	2	2	2	2	2
## 9	1	1	1	1	1	1	-1	-1
## 10	2	2	2	2	2	2	2	2
##	cn_SLC1A1	cn_RLN2	cn_IL33	cn_GLDC	cn_TYRP1	cn_FREM1	cn_SH3GL2	cn_SLC24A2
## 1	0	0	0	0	0	0	-1	-1

## 2	0	0	0	0	0	0	0	0
## 3	-1	-1	-1	-1	-1	-2	-1	-1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	-1	-1
## 7	2	2	2	2	2	2	2	2
## 8	1	2	2	2	2	2	1	-1
## 9	1	1	1	1	2	2	2	2
## 10	0	0	0	0	0	0	0	0

##	cn_CDKN2A	cn_DMRTA1	cn_ELAVL2	cn_TMEM215	cn_AQP7	cn_AQP3	cn_PRSS3	cn_DNAI1
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## 1	-1	-1	-1	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	-1	-1	-1	-1	-1	-1	-1	-1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	1	1	1	1	1
## 7	2	-1	-1	2	2	2	2	2
## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	2	2	1	1	1	0	0	-1
## 10	0	0	0	0	0	0	0	0

##	cn_ENHO	cn_CNTFR	cn_CCL19	cn_CCL21	cn_KIAA1045	cn_CA9	cn_HRCT1	cn_MELK
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## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	-1	-1	-1	-1	-1	-1	-1	-1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	1	1	1	1	1	1	1	1
## 7	2	2	2	2	2	2	2	2
## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	-1	-1	1	1	1
## 10	0	0	0	0	0	0	0	0

##	cn_PAX5	cn_CNTNAP3	cn_PGM5	cn_GPR144	cn_LCN2	cn_ENTPD8	cn_CACNA1B	cn_TUBBP5
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## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	-1	-1	-1	-1	-1	-1	-1	-1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	1	2	2	2	-1	-1	-1	-1
## 7	2	2	2	0	0	0	0	0
## 8	-1	-1	-1	1	1	1	1	1
## 9	1	1	1	2	1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0

##	cn_AKR1E2	cn_AKR1C1	cn_AKR1C2	cn_CALML5	cn_CALML3	cn_ITIH5	cn_ITIH2	cn_GATA3
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## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	1	1	1	1	1	1	1	1
## 7	1	1	1	1	1	1	1	1
## 8	1	1	1	1	1	1	1	1
## 9	2	2	2	2	2	2	2	2
## 10	0	0	0	0	0	0	0	0

##	cn_MCM10	cn_BEND7	cn_ITGA8	cn_ST8SIA6	cn_MRC1	cn_ARMC3	cn_C10orf107
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## 1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	-1
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	1	1	1	1	1	1	0
## 7	1	1	1	1	1	1	1
## 8	1	1	1	1	1	0	-1
## 9	2	2	1	1	1	0	2
## 10	0	0	0	0	0	0	0

##	cn_SYNPO2L	cn_DUSP13	cn_PLAC9	cn_SFTPA2	cn_MAT1A	cn_DYDC2	cn_C10orf90
## 1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0
## 3	-1	1	-1	-1	-1	-1	-1
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	-1
## 7	1	1	1	1	1	1	1
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	1	1	-1	-1	1	1	2
## 10	0	0	0	0	0	0	0

##	cn_FAM196A	cn_KNDC1	cn_SYCE1	cn_WT1	cn_ELF5	cn_EHF	cn_SLC1A2	cn_LRRC4C
## 1	1	1	1	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	1	1	1	1	1
## 7	1	1	1	0	0	0	0	0
## 8	-1	-2	-2	-1	-1	-1	-1	-1
## 9	2	1	1	1	2	2	2	2
## 10	0	0	0	0	0	0	0	0

##	cn_CTSW	cn_SPDYC	cn_ZNHIT2	cn_SYT12	cn_ACY3	cn_ALDH3B2	cn_GAL	cn_MYEOV
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	-1	-1	-1	-1	-1
## 4	0	0	0	0	2	2	-1	2
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	2
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	1	1
## 9	1	1	1	0	1	1	1	1

## 10	2	2	2	2	2	2	2	2
##	cn_FOLR1	cn_PLEKHB1	cn_CHRD12	cn_MOGAT2	cn_DGAT2	cn_WNT11	cn_KCTD14	cn_THRSP
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	-1	1	1	2	2	2	2	2
## 4	2	2	2	2	2	2	2	2
## 5	0	0	0	0	0	0	0	0
## 6	2	2	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	1	1
## 9	-1	-1	-1	0	0	2	2	2
## 10	-1	-1	-1	-1	-1	2	2	2
##	cn_FAM181B	cn_PGR	cn_MMP7	cn_MMP10	cn_MMP1	cn_MMP3	cn_MMP12	cn_MMP13
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	-1	2	2	2	2	2	2	2
## 4	-1	-1	-1	-1	-1	-1	-1	-1
## 5	0	0	0	0	0	0	0	0
## 6	-1	1	1	1	1	-1	-1	-1
## 7	0	0	0	0	0	0	0	0
## 8	1	1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	-1	-1	-1	-1	-1
## 10	-1	-1	-1	-1	-1	-1	-1	-1
##	cn_GRIA4	cn_C11orf92	cn_POU2AF1	cn_CRYAB	cn_NCAM1	cn_DRD2	cn_ZBTB16	
## 1	0	0	0	0	0	0	0	
## 2	-1	-1	-1	-1	-1	-1	-1	
## 3	2	-1	-1	-1	-1	-1	-1	
## 4	-1	-1	-1	-1	-1	-1	-1	
## 5	0	0	0	0	0	0	0	
## 6	-1	-1	-1	-1	-1	-1	-1	
## 7	0	0	0	0	0	0	0	
## 8	-1	-1	-1	-1	-1	-1	-1	

## 9	-1	-1	-1	-1	-1	-1	-1
## 10	-1	-1	-1	-1	-1	-1	-1

##	cn_DSCAML1	cn_TMPRSS4	cn_SCN2B	cn_CD3E	cn_CD3D	cn_CD3G	cn_TTC36	cn_CXCR5
## 1	0	0	0	0	0	0	0	0
## 2	-1	-1	-1	-1	-1	-1	-1	-1
## 3	-1	-1	-1	-1	-1	-1	-1	-1
## 4	-1	-1	-1	-1	-1	-1	-1	-1
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0	0
## 8	-1	1	1	1	1	1	1	1
## 9	-1	-1	-1	-1	-1	-1	-1	-1
## 10	-1	-1	-1	-1	-1	-1	-1	-1

##	cn_TRIM29	cn_GRIK4	cn_VSIG2	cn_HEPACAM	cn_HEPN1	cn_PKNOX2	cn_BARX2
## 1	0	0	0	0	0	0	0
## 2	-1	-1	-1	-1	-1	-1	-1
## 3	-1	-1	-1	-1	-1	-1	0
## 4	-1	-1	-1	-1	-1	-1	-1
## 5	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	0	0	-1	-1	-1	-1	1
## 10	-1	-1	-1	-1	-1	-1	-1

##	cn_TMEM45B	cn_ADAMTS8	cn_ADAMTS15	cn_IGSF9B	cn_B3GAT1	cn_GLB1L2	cn_B4GALNT3
## 1	0	0	0	0	0	0	1
## 2	-1	-1	-1	-1	-1	-1	1
## 3	0	-1	-1	-1	-1	-1	2
## 4	-1	-1	-1	-1	-1	-1	0
## 5	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0

## 8	-1	-1	-1	-1	-1	-1	-1	2
## 9	-1	-1	-1	-1	-1	-1	-1	0
## 10	-1	-1	-1	-1	-1	-1	-1	0

##	cn_LRTM2	cn_KCNA1	cn_NTF3	cn_SCNN1A	cn_CLEC4E	cn_A2ML1	cn_KLRB1	cn_BCL2L14
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## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	2	-1	-1	1	1	1	1	2
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	2	2	2	2	-1
## 7	0	0	0	0	0	0	0	0
## 8	2	2	2	2	2	2	2	2
## 9	0	2	2	2	2	2	2	2
## 10	0	0	0	0	0	0	0	0

##	cn_MGP	cn_ERP27	cn_LMO3	cn_RERGL	cn_SLC01A2	cn_C12orf39	cn_TUBA3C	cn_GJB2
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## 1	1	1	1	1	1	1	0	0
## 2	0	0	0	0	0	0	0	0
## 3	-1	-1	-1	-1	-1	-1	0	0
## 4	0	0	0	0	0	0	-1	-1
## 5	0	0	0	0	0	0	0	0
## 6	1	1	2	2	2	2	1	1
## 7	0	0	0	0	0	0	-1	-1
## 8	1	1	1	1	1	1	1	1
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0

##	cn_GJB6	cn_FGF9	cn_SGCG	cn_ATP8A2	cn_SHISA2	cn_GPR12	cn_FLT3	cn_DCLK1
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## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	-2	-1
## 4	-1	-1	-1	-1	-1	-1	-1	-1
## 5	0	0	0	0	0	0	0	0
## 6	1	1	1	1	1	1	1	1

## 6	-1	-1	-1	-1	1	1	1	-1	-1
## 7	-1	-1	-1	-1	0	0	0	0	0
## 8	2	2	2	2	-1	-1	-1	-1	-1
## 9	0	0	-1	-1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0	0

##	cn_SSTR1	cn_ABHD12B	cn_PRIMA1	cn_IFI27	cn_PPP4R4	cn_SERPINA6	cn_SERPINA1
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## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	-1	-1	1	1	1	1	1
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0

##	cn_SERPINA11	cn_SERPINA5	cn_SERPINA3	cn_TCL1B	cn_TCL1A	cn_DEGS2	cn_DLK1
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## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	1	1	1	1	1	1	1
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	-1	-1	-1	1
## 10	0	0	0	0	0	0	0

##	cn_DIO3	cn_TDRD9	cn_C14orf180	cn_PLD4	cn_CRIP1	cn_ADAM6	cn_KIAA0125	cn_THSD4
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## 1	0	0	0	0	0	0	0	-1
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0

## 5	0	0	0	0	0	0	0	0
## 6	1	1	1	1	1	1	1	-1
## 7	0	0	0	0	0	0	0	-1
## 8	-1	-1	-1	-1	-1	-1	-1	1
## 9	1	-1	-1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0

cn_GRAMD2 cn_C15orf59 cn_CRABP1 cn_RASGRF1 cn_KIAA1199 cn_TMC3 cn_AP3B2

## 1	-1	-1	1	1	1	1	1
## 2	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1
## 7	-1	-1	-1	-1	-1	-1	-1
## 8	1	1	1	1	1	1	1
## 9	-1	-1	0	-1	1	1	-1
## 10	0	0	0	0	0	0	0

cn_BNC1 cn_NTRK3 cn_ACAN cn_RHCG cn_PLIN1 cn_MESP1 cn_ANPEP cn_ST8SIA2

## 1	1	2	2	2	2	2	2
## 2	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1
## 7	-1	-1	-1	-1	-1	-1	-1
## 8	1	2	2	2	2	2	2
## 9	-1	-1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0

cn_RGMA cn_SYNM cn_ARHGDIG cn_HBA1 cn_HBA2 cn_RGS11 cn_FBXL16 cn_METRN

## 1	2	1	1	1	1	1	1
## 2	0	0	1	1	1	1	1
## 3	0	0	1	1	1	1	1

## 4	0	0	0	0	0	0	0	0
## 5	0	0	1	1	1	1	1	1
## 6	-1	1	0	0	0	0	0	0
## 7	-1	-1	0	0	0	0	0	0
## 8	2	1	1	1	1	1	1	1
## 9	-1	2	0	0	0	0	0	0
## 10	0	0	2	2	2	2	2	2
##	cn_CCDC78	cn_HAGHL	cn_GNG13	cn_MSLN	cn_SOX8	cn_CACNA1H	cn_TPSAB1	cn_TPSB2
## 1	1	1	1	1	1	1	1	1
## 2	1	1	1	1	1	1	1	1
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	1	1	1	1	1	1	1	1
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	1	1
## 9	0	0	0	0	0	0	0	0
## 10	2	2	2	2	2	2	2	2
##	cn_TPSD1	cn_TPSG1	cn_BAIAP3	cn_IGFALS	cn_NPW	cn_RAB26	cn_PRSS33	cn_PRSS21
## 1	1	1	1	1	1	1	1	1
## 2	1	1	1	1	1	1	1	1
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	1	1	1	1	1	1	1	1
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	-1	-1
## 9	0	0	1	1	1	1	1	1
## 10	2	2	2	2	2	2	2	2
##	cn_ZG16B	cn_KREMEN2	cn_PKMYT1	cn_CLDN6	cn_C16orf89	cn_ABAT	cn_GRIN2A	
## 1	1	1	1	1	1	1	1	
## 2	1	1	1	1	1	1	1	

## 3	1	1	1	1	1	1	1	
## 4	0	0	0	0	0	0	0	
## 5	1	1	1	1	1	1	1	
## 6	0	0	0	0	0	0	0	
## 7	0	0	0	0	0	0	0	
## 8	-1	-1	-1	-1	-1	1	-1	
## 9	1	1	1	1	-1	-1	-1	
## 10	2	2	2	2	2	2	2	
##	cn_TNFRSF17	cn_SHISA9	cn_ABCC6	cn_MPV17L	cn_MYH11	cn_PLA2G10	cn_SYT17	
## 1	1	1	1	1	1	1	1	
## 2	2	0	0	0	0	0	0	
## 3	1	1	1	1	1	1	1	
## 4	0	0	0	0	0	0	0	
## 5	1	1	1	1	1	1	1	
## 6	0	0	1	1	1	1	1	
## 7	0	0	0	0	0	0	0	
## 8	-1	1	1	1	1	1	1	
## 9	-1	0	-1	-1	-1	-1	-1	
## 10	2	2	2	2	2	2	2	
##	cn_TMC5	cn_GP2	cn_ACSM5	cn_ACSM1	cn_DNAH3	cn_CRYM	cn_SCNN1G	cn_SCNN1B
## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	1	1	1	1	1	1	1	1
## 6	1	1	1	1	1	1	1	1
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	-1	-1
## 9	-1	-1	-1	-1	-1	-1	-1	-1
## 10	2	2	2	2	2	2	2	2
##	cn_HS3ST4	cn_CD19	cn_ASPHD1	cn_DOC2A	cn_FAM57B	cn_SEZ6L2	cn_PYDC1	cn_ABCC12
## 1	1	1	1	1	1	1	1	-1

## 2	0	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0	0
## 5	1	1	1	1	1	1	1	1	1
## 6	1	1	1	1	1	1	1	1	1
## 7	0	0	0	0	0	0	0	0	0
## 8	-1	1	1	1	1	1	1	1	1
## 9	-1	-1	-1	-1	-1	-1	-1	-1	1
## 10	2	2	2	2	2	2	2	2	-1
##	cn_ABCC11	cn_CBLN1	cn_TOX3	cn_IRX6	cn_SLC6A2	cn_CES1	cn_MT1M	cn_MT1A	cn_MT1G
## 1	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 2	0	0	0	-1	-1	-1	-1	-1	-1
## 3	1	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0	0
## 5	1	1	1	-2	-2	-2	-2	-2	-2
## 6	1	1	1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0	0	0
## 8	1	1	1	2	2	2	2	2	2
## 9	-1	0	-1	-1	-1	-1	-1	-1	-1
## 10	-1	-1	-1	-1	-1	-1	-1	-1	-1
##	cn_CCL17	cn_RRAD	cn_CES3	cn_RLTPR	cn_CDH3	cn_CDH1	cn_HAS3	cn_IL34	cn_CALB2
## 1	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 2	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 3	1	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0	0
## 5	-2	-2	-2	-2	-2	-2	-2	-2	-2
## 6	-1	-1	-1	-1	-1	-1	-1	1	1
## 7	0	0	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	1	1	1
## 9	-1	1	1	-1	-1	-1	-1	-1	2
## 10	-1	-1	-1	-1	-1	-1	-1	-1	-1
##	cn_CHST4	cn_TAT	cn_HP	cn_SYCE1L	cn_ADAMTS18	cn_CLEC3A	cn_PKD1L2	cn_SDR42E1	

## 1	-1	-1	-1	-1	-1	-1	-1	-1
## 2	-1	-1	-1	-1	-1	-1	-1	-1
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	-2	-2	-2	-2	-2	-2	-2	-2
## 6	1	1	1	1	2	1	2	2
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	1	1
## 9	2	2	2	-1	-1	-1	-1	-1
## 10	-1	-1	-1	-1	-1	-1	-1	-1

##	cn_HSD17B2	cn_CPNE7	cn_DPEP1	cn_TUBB3	cn_CCDC144B	cn_MFAP4	cn_ALDH3A1
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## 1	-1	-1	-1	-1	-1	-1	-1
## 2	-1	-1	-1	-1	0	0	0
## 3	1	1	1	1	-1	-1	-1
## 4	0	0	0	0	-1	-1	-1
## 5	-2	-2	-2	-2	0	0	0
## 6	2	2	2	2	-1	-1	-1
## 7	0	0	0	0	0	0	0
## 8	1	1	1	1	-1	-1	-1
## 9	-1	-1	-1	-1	-1	-1	-1
## 10	-1	-1	-1	-1	-1	-1	-1

##	cn_SLC13A2	cn_CORO6	cn_SLC6A4	cn_RHBDL3	cn_CCL11	cn_CCL13	cn_CCL7	cn_CCL8
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## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	1	1	1	1	1
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0

##	cn_GAS2L2	cn_CCL14	cn_CCL18	cn_TBC1D3C	cn_TBC1D3G	cn_STAC2	cn_PPP1R1B
## 1	0	0	0	0	0	0	0
## 2	0	1	1	1	1	1	1
## 3	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0

##	cn_PNMT	cn_IKZF3	cn_TOP2A	cn_TNS4	cn_CCR7	cn_KRT23	cn_KRT31	cn_KRT13
## 1	0	0	0	0	0	0	0	0
## 2	1	1	1	1	1	1	1	1
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0

##	cn_KRT15	cn_KRT14	cn_KRT16	cn_KRT17	cn_HAP1	cn_WNK4	cn_RND2	cn_ETV4	cn_MEOX1
## 1	0	0	0	0	0	0	0	0	0
## 2	1	1	1	1	1	1	1	1	1
## 3	1	1	1	1	1	-1	-1	-1	-1
## 4	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	-1	-1	2	2	1	1

##	10	0	0	0	0	0	0	0	0
##		cn_CD300LG	cn_PYY	cn_RUNDC3A	cn_GFAP	cn_KIF18B	cn_CRHR1	cn_MAPT	cn_HOXB2
##	1	0	0	0	0	0	0	0	0
##	2	1	1	1	1	1	1	1	1
##	3	0	1	1	1	1	1	1	1
##	4	0	0	0	0	0	0	0	0
##	5	0	0	0	0	0	0	0	0
##	6	-1	-1	-1	-1	-1	-1	-1	-1
##	7	0	0	0	0	0	0	0	0
##	8	-1	-1	-1	-1	-1	-1	-1	-1
##	9	1	1	1	2	2	2	2	1
##	10	0	0	0	0	0	0	0	0
##		cn_HOXB5	cn_HOXB6	cn_HOXB13	cn_B4GALNT2	cn_NGFR	cn_DLX3	cn_CHAD	cn_HLF
##	1	0	0	0	0	0	0	0	0
##	2	1	1	1	1	1	1	1	1
##	3	1	1	1	1	1	1	1	1
##	4	0	0	0	0	0	0	0	0
##	5	0	0	0	0	0	0	0	0
##	6	-1	-1	-1	-1	-1	-1	-1	-1
##	7	0	0	0	0	0	0	0	0
##	8	-1	-1	-1	-1	-1	-1	-1	-1
##	9	1	1	1	1	1	1	1	1
##	10	0	0	0	0	0	0	0	0
##		cn_TMEM100	cn_TEX14	cn_PPM1E	cn_PRR11	cn_CA4	cn_TCAM1P	cn_SCN4A	cn_RGS9
##	1	0	0	0	0	0	0	0	0
##	2	1	1	1	1	1	1	1	1
##	3	1	0	0	0	1	2	2	0
##	4	0	0	0	0	0	0	0	0
##	5	0	0	0	0	0	0	0	0
##	6	-1	-1	-1	-1	-1	2	2	2
##	7	0	0	0	0	0	0	0	0
##	8	-1	-1	-1	-1	-1	-1	-1	-1

## 9	1	1	1	1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0

##	cn_CACNG4	cn_CACNG1	cn_SLC16A6	cn_ABCA8	cn_ABCA9	cn_ABCA6	cn_ABCA10
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## 1	0	0	0	0	0	0	0
## 2	1	1	1	1	1	1	1
## 3	0	0	2	1	1	1	1
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0

##	cn_KCNJ16	cn_SSTR2	cn_SDK2	cn_KIF19	cn_FOXJ1	cn_ST6GALNAC1	cn_MGAT5B
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## 1	0	0	0	0	0	0	0
## 2	1	1	1	1	1	1	1
## 3	1	1	1	1	0	0	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	2	2	2	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0

##	cn_BIRC5	cn_CBX2	cn_NPTX1	cn_NOTUM	cn_CLUL1	cn_ADCYAP1	cn_MYOM1	cn_DLGAP1
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## 1	0	0	0	0	0	0	0	0
## 2	1	1	1	1	0	0	0	0
## 3	1	1	1	1	-1	-1	-1	-1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	2	2	2	2	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0	0

## 8	-1	-1	-1	-1	1	1	1	1
## 9	1	1	-1	-1	-1	-1	1	1
## 10	0	0	0	0	0	0	0	0
##	cn_LAMA1	cn_CIDEA	cn_CXADRP3	cn_ANKRD30B	cn_GREB1L	cn_LAMA3	cn_AQP4	cn_CHST9
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	-1	-1	-1	0	0	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	2	2
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	1	2	2	2	2
## 9	1	2	0	0	0	2	2	2
## 10	0	0	0	0	0	0	0	0
##	cn_CDH2	cn_DSC3	cn_DSC1	cn_DSG1	cn_DSG3	cn_NOL4	cn_SLC39A6	cn_SLC14A2
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	1	0	0	0	0	1	1	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	2	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0	-1
## 8	2	2	2	2	2	2	2	2
## 9	1	2	2	2	2	1	1	2
## 10	0	0	0	0	0	0	0	0
##	cn_SIGLEC15	cn_MAPK4	cn_CCDC68	cn_ONECUT2	cn_GRP	cn_SERPINB5	cn_SERPINB3	
## 1	0	0	0	0	0	0	0	
## 2	0	0	0	0	0	0	0	
## 3	0	0	0	0	0	0	0	
## 4	0	0	0	0	0	0	0	
## 5	0	0	0	0	0	0	0	
## 6	-1	-1	-1	-1	-1	-1	-1	

## 7	-1	-1	-1	-1	-1	-1	-1
## 8	2	1	1	0	0	0	0
## 9	1	-1	-1	-1	-1	2	2
## 10	0	0	0	0	0	0	0

## 6	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0	0	0
## 8	0	0	0	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	2	2	2	2	2	2
## 10	0	0	0	0	0	0	0	0	0

cn_MAST1 cn_PALM3 cn_SLC1A6 cn_CASP14 cn_PGLYRP2 cn_CYP4F22 cn_CYP4F8

## 1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0
## 3	-1	-1	-1	-1	-1	-1	-1
## 4	-1	-1	-1	-1	-1	-1	-1
## 5	0	0	0	0	0	0	0
## 6	-1	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	-1	1	2	2	2	2	2
## 10	0	0	0	0	0	0	0

cn_CYP4F3 cn_CYP4F12 cn_UCA1 cn_CYP4F11 cn_NWD1 cn_CPAMD8 cn_B3GNT3

## 1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0
## 3	-1	-1	-1	-1	-1	-1	-1
## 4	-1	-1	-1	-1	-1	-1	-1
## 5	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	2	2	2	2	2	2	2
## 10	0	0	0	0	0	0	0

cn_TDRD12 cn_SLC7A10 cn_CHST8 cn_HPN cn_FXYD1 cn_MAG cn_FFAR2 cn_DMKN

## 1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1
## 4	0	0	0	2	-1	-1	-1

## 5	0	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	0	0	0	0	0
## 9	1	1	1	2	2	2	2	2
## 10	0	0	0	0	0	0	0	0

##	cn_SBSN	cn_UPK1A	cn_HSPB6	cn_APLP1	cn_PPP1R14A	cn_C19orf33	cn_RYR1	cn_LGALS7
## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1
## 4	-1	-1	-1	-1	2	2	2	2
## 5	0	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	2	2	2	2	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0

##	cn_LGALS7B	cn_NCCRP1	cn_DLL3	cn_FCGBP	cn_CNTD2	cn_MIA	cn_CYP2A6	cn_CYP2A7
## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1
## 4	2	2	2	2	1	2	2	2
## 5	0	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	-1	-1	-1
## 9	-1	1	2	2	1	2	1	1
## 10	0	0	0	0	0	0	0	0

##	cn_CYP2B7P1	cn_CEACAM7	cn_CEACAM5	cn_CEACAM6	cn_CD79A	cn_ATP1A3	cn_KCNN4
## 1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1

## 4	2	2	2	2	2	2	2
## 5	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	1	1	1	1	1	1	2
## 10	0	0	0	0	0	0	0

##	cn_CBLC	cn_FOSB	cn_FOXA3	cn_KCNC3	cn_SPIB	cn_KLK6	cn_KLK7	cn_KLK8	cn_KLK10
## 1	1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1	1
## 4	2	2	2	0	0	1	1	1	1
## 5	0	0	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	1	1	1
## 9	2	2	-1	-1	-1	1	1	1	1
## 10	0	0	0	0	0	0	0	0	0

##	cn_KLK11	cn_KLK12	cn_KLK13	cn_KLK14	cn_HAS1	cn_NLRP7	cn_NLRP2	cn_TNNT1
## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1
## 4	1	1	1	1	1	-1	-1	-1
## 5	0	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	1	1
## 9	1	1	1	1	1	1	1	1
## 10	0	0	0	0	0	0	0	0

##	cn_TNNI3	cn_SYT5	cn_COX6B2	cn_NLRP5	cn_PEG3	cn_ZSCAN1	cn_DEFB132	cn_RSP04
## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0

## 3	1	1	1	1	1	1	1	1
## 4	-1	-1	2	2	2	2	0	0
## 5	0	0	0	0	0	0	0	0
## 6	2	2	2	2	-1	-1	1	1
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	-1	-1
## 9	1	1	1	-1	-1	-1	1	1
## 10	0	0	0	0	0	0	0	0

##	cn_SIRPG	cn_TGM3	cn_ADAM33	cn_SPEF1	cn_PRND	cn_CHGB	cn_FERMT1	cn_PAK7
----	----------	---------	-----------	----------	---------	---------	-----------	---------

## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	1	1	1	1	1	1	1	1
## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0

##	cn_SNAP25	cn_FLRT3	cn_PCSK2	cn_PTPRT	cn_BCAS1	cn_CYP24A1	cn_BMP7	cn_PCK1
----	-----------	----------	----------	----------	----------	------------	---------	---------

## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	2	2	2	2	2
## 4	0	0	0	0	2	2	2	2
## 5	0	0	0	0	0	0	0	0
## 6	1	1	1	-2	-1	-1	1	1
## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	-1	0	1	1	1	1
## 9	0	1	1	-1	0	0	0	0
## 10	0	0	0	0	0	0	0	0

##	cn_ZBP1	cn_C20orf85	cn_APCDD1L	cn_ZNF831	cn_EDN3	cn_GATA5	cn_COL9A3
----	---------	-------------	------------	-----------	---------	----------	-----------

## 1	1	1	1	1	1	1	1
------	---	---	---	---	---	---	---

## 2	0	0	0	0	0	0	0	
## 3	2	2	2	2	2	2	2	
## 4	2	2	2	2	2	2	2	
## 5	0	0	0	0	0	0	0	
## 6	1	1	1	1	1	1	1	
## 7	0	0	0	0	0	0	0	
## 8	1	1	1	1	1	1	1	
## 9	0	0	0	1	1	-1	-1	
## 10	0	0	0	0	0	0	0	
##	cn_EEF1A2	cn_SRMS	cn_MYT1	cn_ABCC13	cn_CXADR	cn_CHODL	cn_NCAM2	cn_B3GALT5
## 1	1	1	1	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	2	2	2	1	1	1	1	1
## 4	2	2	2	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	1	1	1	2	2	2	2	2
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	1	1	1	1	2
## 10	0	0	0	0	0	0	0	0
##	cn_C21orf88	cn_FAM3B	cn_TMPRSS2	cn_UMODL1	cn_S100B	cn_CECR7	cn_CECR2	
## 1	0	0	0	0	0	0	0	
## 2	0	0	0	0	0	0	0	
## 3	1	1	1	1	1	-1	-1	
## 4	0	0	0	0	0	0	0	
## 5	0	0	0	0	0	-1	-1	
## 6	2	2	2	2	1	-1	-1	
## 7	0	0	0	0	0	-1	-1	
## 8	-1	-1	-1	-1	0	0	0	
## 9	2	2	2	2	2	-1	-1	
## 10	0	0	0	0	0	-1	-1	
##	cn_CDC45	cn_PRODH	cn_SLC7A4	cn_TBX1	cn_PRAME	cn_VPREB3	cn_MMP11	cn_GSTT1

## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	2	2	2	2	2	2	2	2
## 4	0	0	0	0	0	0	0	0
## 5	-1	-1	-1	-1	-1	-1	-1	-1
## 6	-1	-1	-1	-1	-1	-1	-1	-1
## 7	-1	-1	-1	-1	-1	-1	-1	-1
## 8	0	0	0	0	0	0	0	0
## 9	1	1	1	1	2	2	2	2
## 10	-1	-1	-1	-1	-1	-1	-1	-1

cn_MY018B cn_SEZ6L cn_NEFH cn_SEC14L2 cn_INPP5J cn_PLA2G3 cn_SLC5A1

## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	2	-1	-1	-1	-1	-1	-1
## 4	0	0	0	0	0	0	0
## 5	-1	-1	-1	-1	-1	-1	-1
## 6	-1	-1	-1	-1	-1	-1	-1
## 7	-1	-1	-1	-1	-1	-1	-1
## 8	1	1	-1	-1	-1	-1	-1
## 9	2	0	2	2	1	1	1
## 10	-1	-1	-1	-1	-1	-1	-1

cn_TMPRSS6 cn_ELFN2 cn_LGALS2 cn_SOX10 cn_APOBEC3B cn_CACNA1I cn_SEPT3

## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	1	1	1	-1	2	-1	-1
## 4	0	0	0	0	0	0	0
## 5	-1	-1	-1	-1	-1	-1	-1
## 6	-1	-1	-1	-1	-1	-1	-1
## 7	-1	-1	-1	-1	-1	-1	-1
## 8	0	0	0	0	0	0	0
## 9	1	1	1	1	1	1	1
## 10	-1	-1	-1	-1	-1	-1	-1

```
##      cn_SERHL2 cn_SCUBE1 cn_MPPED1 cn_SULT4A1 cn_PNPLA3 cn_PHF21B cn_UPK3A
```

```
## 1      0      0      0      0      0      0      0
```

```
## 2      0      0      0      0      0      0      0
```

```
## 3      -1      -1      -1      -1      -1      -1      -1
```

```
## 4      0      0      0      0      0      0      0
```

```
## 5      -1      -1      -1      -1      -1      -1      -1
```

```
## 6      -1      -1      -1      -1      -1      -1      -1
```

```
## 7      -1      -1      -1      -1      -1      -1      -1
```

```
## 8      0      0      0      0      0      0      0
```

```
## 9      1      1      1      1      1      1      0
```

```
## 10      -1      -1      -1      -1      -1      -1      -1
```

```
##      cn_SMC1B  cn_WNT7B  cn_KLHDC7B  cn_MAPK8IP2  cn_MLC1  mu_ANK3  mu_GATA3  mu_HECTD4
```

```
## 1      0      0      0      0      0      0      0      0
```

```
## 2      0      0      0      0      0      1      0      0
```

```
## 3      -1      -1      -1      -1      -1      0      0      0
```

```
## 4      0      0      0      0      0      0      1      0
```

```
## 5      -1      -1      -1      -1      -1      0      0      0
```

```
## 6      -1      -1      -1      -1      -1      0      0      0
```

```
## 7      -1      -1      -1      -1      -1      0      0      0
```

```
## 8      0      0      0      0      0      0      0      0
```

```
## 9      0      0      0      0      0      0      0      0
```

```
## 10      -1      -1      -1      -1      -1      0      0      0
```

```
##      mu_LRBA mu_LRP2 mu_SYNE1 mu_CDH1 mu_MGA mu_MUC16 mu_ZFHX4 mu_LAMA2 mu_MLL3
```

```
## 1      0      0      0      0      0      1      0      1      1
```

```
## 2      0      0      0      0      0      0      1      0      0
```

```
## 3      0      0      0      0      0      0      0      0      0
```

```
## 4      0      0      0      0      0      0      0      0      0
```

```
## 5      0      0      0      0      0      1      0      0      0
```

```
## 6      0      0      0      0      0      0      0      0      0
```

```
## 7      0      0      0      0      0      0      0      0      0
```

```
## 8      0      0      0      0      0      0      0      0      0
```

```
## 9      0      0      0      0      0      0      0      0      0
```

## 10	0	0	0	0	0	0	0	0	0
-------	---	---	---	---	---	---	---	---	---

##	mu_MUC5B	mu_PLXNA4	mu_PTPRD	mu_CSMD2	mu_DSCAM	mu_FAT2	mu_MAP3K1	mu_MED12	
----	----------	-----------	----------	----------	----------	---------	-----------	----------	--

## 1	1	1	1	0	0	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 2	0	0	0	0	0	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 3	0	0	0	0	0	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 4	0	0	0	0	0	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 5	0	0	0	0	0	0	1	0	
------	---	---	---	---	---	---	---	---	--

## 6	0	0	0	0	0	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 7	0	0	0	0	0	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 8	0	0	0	0	0	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 9	0	0	0	0	0	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 10	0	0	0	0	0	0	0	0	
-------	---	---	---	---	---	---	---	---	--

##	mu_RNA5.8SP6	mu_AHCTF1	mu_APOBR	mu_COL14A1	mu_COL7A1	mu_CSMD1	mu_CUBN	mu_DMD	
----	--------------	-----------	----------	------------	-----------	----------	---------	--------	--

## 1	0	0	0	0	0	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 2	0	1	1	1	1	1	1	1	
------	---	---	---	---	---	---	---	---	--

## 3	0	0	0	0	0	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 4	0	0	0	0	0	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 5	0	0	0	0	0	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 6	0	0	0	0	0	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 7	0	0	0	0	0	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 8	0	0	0	0	0	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 9	0	0	0	0	0	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 10	0	0	0	0	0	0	0	0	
-------	---	---	---	---	---	---	---	---	--

##	mu_DNAH8	mu_GOLGA6L2	mu_HYDIN	mu_MUC12	mu_PLCE1	mu_RYR2	mu_USH2A	mu_AHNAK	
----	----------	-------------	----------	----------	----------	---------	----------	----------	--

## 1	0	0	0	0	0	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 2	1	1	1	1	1	1	1	0	
------	---	---	---	---	---	---	---	---	--

## 3	0	0	0	0	0	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 4	0	0	0	0	1	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 5	0	0	0	0	0	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 6	0	1	0	1	0	1	0	0	
------	---	---	---	---	---	---	---	---	--

## 7	0	0	0	0	0	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 8	0	1	0	0	1	0	0	0	
------	---	---	---	---	---	---	---	---	--

## 8	0	0	0	0	0	0	0	0
## 9	1	0	0	0	0	0	0	0
## 10	0	0	0	1	0	0	0	0
##	mu_KIF26B	mu_NCOR1	mu_ARID1A	mu_ASPM	mu_CROCC	mu_DNAH17	mu_DSPP	mu_HRNR
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0
##	mu_SVEP1	mu_ANK1	mu_CROCCP2	mu_MTOR	mu_LAMA1	mu_MST1P9	mu_PCNT	mu_SCN2A
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	1	1	1	0	0	0	0
## 5	0	0	0	0	1	1	1	1
## 6	0	0	0	0	0	0	0	0
## 7	1	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	1	0	0	0	0
## 10	0	0	0	0	0	0	0	0
##	mu_TTN	mu_DNAH6	mu_DYNC2H1	mu_OTOGL	mu_TNRC6B	mu_NF1	mu_PCLO	mu_ADAMTSL1
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	1	0	0	0	0	0	0	0
## 6	0	1	1	1	1	0	0	0

## 7	0	0	0	0	0	1	1	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	0	1	0	0	0
## 10	0	0	0	0	0	0	0	0

##	mu_CACNA1D	mu_FBN3	mu_MEGF8	mu_DST	mu_LYST	mu_MDN1	mu_TP53BP1	mu_ABCB1
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## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	1	1	1	1	0
## 9	0	0	0	0	0	0	0	1
## 10	0	0	0	0	0	0	0	0

##	mu_MXRA5	mu_HEATR7B2	mu_ATP10B	mu_CHD4	mu_FAT4	mu_FREM1	mu_MUC17	mu_TG
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## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	1	0	0	0	0	0	0	0
## 10	0	1	0	0	0	0	0	0

##	mu_TLN1	mu_DNAH3	mu_MGAM	mu_NEB	mu_RNF213	mu_SPTA1	mu_FLNC	mu_MLL2
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## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0

## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0

##	mu_PDE4DIP	mu_MYH9	mu_AFF2	mu_COL6A5	mu_CTCF	mu_MACF1	mu_APOB	mu_CNTRL
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## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0

##	mu_FLG	mu_FMN2	mu_UBR4	mu_GPR98	mu_PKHD1	mu_PTEN	mu_VPS13D	mu_ANK2	mu_MYH11
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## 1	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0	0

##	mu_FAM157B	mu_SRCAP	mu_CMYA5	mu_BRWD1	mu_HSPG2	mu_RP1	mu_RUNX1	mu_TBP
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## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0

## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0

##	mu_WDR52	mu_BIRC6	mu_FAT1	mu_TPR	mu_FRAS1	mu_RELN	mu_RPGR	mu_NOTCH2	mu_DNHD1
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## 1	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0	0

##	mu_XIRP2	mu_ANKRD30BL	mu_CBFB	mu_PDE3A	mu_CACNA1A	mu_THSD7B	mu_ABCA13	mu_EYS
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## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0

##	mu_PKD1L1	mu_RYR3	mu_FRG1B	mu_HUWE1	mu_FOXA1	mu_FCGBP	mu_CACNA1E	mu_ANKRD12
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## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0

## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0

##	mu_CHD5	mu_GRID1	mu_KIF4A	mu_MLL	mu_PCNXL2	mu_PRKDC	mu_SI	mu_PTPRB
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## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0

##	mu_CACNA1C	mu_CSPP1	mu_PREX2	mu_SMG1	mu_UBR5	mu_KIAA1210	mu_COL6A3	mu_ODZ1
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## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0

##	mu_AHNAK2	mu_AKAP13	mu_ASTN1	mu_CACNA1F	mu_CHD6	mu_CHD8	mu_CNTNAP2	mu_DNAH2
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## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0

## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0

mu_DYNC1H1 mu_FLNA mu_GRIN2A mu_KIAA0947 mu_KIAA1109 mu_LRP1 mu_MYH1

## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0

mu_MYO18B mu_RYR1 mu_SDK1 mu_STARD9 mu_ERBB2 mu_SETD2 mu_VCAN mu_WDFY3

## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0

mu_ATM mu_UTRN mu_VPS13B mu_MAP2 mu_DNAH10 mu_SYNE2 mu_MAP2K4 mu_TNXB

## 1	0	0	0	0	0	0	0	0
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## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0

mu_ASH1L mu_ASXL2 mu_HMCN1 mu_ALMS1 mu_ITPR2 mu_TBX3 mu_F8 mu_AKD1 mu_ERBB3

## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0

mu_CENPE mu_ABCA12 mu_C9orf174 mu_F5 mu_FRMPD4 mu_LRP1B mu_DCHS2 mu_HERC1

## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0

mu_CSMD3 mu_USP34 mu_BAZ2B mu_FLG2 mu_PCDH19 mu_VPS13A mu_PAPPA2 mu_PDZD2

## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0

##	mu_BCORL1	mu_APC	mu_PRUNE2	mu_GON4L	mu_SPHKAP	mu_SACS	mu_MYCBP2	mu_DOCK11
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## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0

##	mu_FBN1	mu_DNAH11	mu_PIWIL1	mu_SCN10A	mu_ATRX	mu_PKHD1L1	mu_MAP1A	mu_DNAH9
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## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0

##	mu_MYH7	mu_PEG3	pp_X14.3.3.beta	pp_X14.3.3.epsilon	pp_X14.3.3.zeta
## 1	0	0	-0.065364828	-0.17369848	-0.190751879
## 2	0	0	-0.029615457	-0.15752349	-0.283581270
## 3	0	0	0.140562960	0.19270146	0.211418232
## 4	0	0	-0.008031433	-0.13864215	-0.122891406
## 5	0	0	0.029801771	0.05325478	0.312538834
## 6	0	0	-0.083869417	0.02130718	-0.239253452
## 7	0	0	0.366998485	0.28594084	-0.471547732
## 8	0	0	-0.085165132	0.09716346	0.076269356
## 9	0	0	0.058627119	0.15964071	0.007516144
## 10	0	0	-0.023017674	-0.05987113	0.382441218

##	pp_X4E.BP1	pp_X4E.BP1.pS65	pp_X4E.BP1.pT37.T46	pp_X4E.BP1.pT70	pp_X53BP1
## 1	0.39080680	0.03564318	0.19345365	-0.17057899	0.28325322
## 2	0.02224304	-0.09212511	-0.05699042	0.24544237	-0.17292400
## 3	0.13401292	-0.23348272	-1.09260683	-0.28775836	-0.29058863
## 4	-0.03201140	-0.02576116	-0.45521647	-0.14467237	0.50091684
## 5	0.70295290	-0.02672917	0.63811118	0.06488215	-0.48897191
## 6	-0.19308752	0.19592457	0.62670045	0.08157867	-0.03445841
## 7	-0.55751355	-0.04136079	-0.52789428	-0.06324707	-0.68919758
## 8	0.65210682	-0.13010318	-0.24684004	0.15046063	-0.20175370
## 9	0.58061649	0.07903776	-0.18644151	0.17971889	0.64091927
## 10	-0.06389331	-0.34825317	-1.02434015	-0.08844626	0.37365024

##	pp_A.Raf	pp_A.Raf.pS299	pp_ACC1	pp_ACC.pS79	pp_ACVRL1	pp_ADAR1
## 1	0.02394264	-0.22095946	0.2002684	0.64356026	-0.195641959	-0.06495332
## 2	-0.15813260	0.27348271	1.4183413	1.56964667	0.023644325	-0.54058572
## 3	-0.11487862	-0.21630248	0.3483247	0.24697212	-0.006019124	-0.43130892
## 4	-0.30553733	-0.16450385	1.1263566	1.49939055	-0.124894341	0.08008348
## 5	-0.07959337	0.32048653	-0.8139026	-1.17342335	0.246159139	-0.33431135
## 6	-0.37273542	0.22712512	-0.2077252	0.02123607	0.413238451	-0.02050406
## 7	-0.19960129	-0.03049959	-1.3061969	-0.94213727	0.569494409	-0.56495866
## 8	-0.06574055	0.17244976	-0.5964836	-0.35998145	0.025485821	0.20350491
## 9	0.15963930	0.08411845	-0.2506286	-0.31762833	0.060604905	0.14634571

## 10	0.10841015	0.09599420	-0.1413607	-0.33002883	-0.129556683	-0.12865614
##	pp_AMPK.alpha	pp_AMPK.pT172	pp_AR	pp_ARID1A	pp_ASNS	
## 1	0.20898164	-0.16880116	1.49818596	-0.182144786	-0.422909192	
## 2	0.37189418	0.17547671	0.18558628	-0.383595091	-0.033450831	
## 3	-0.14762329	-0.30299801	0.01597337	0.064012941	0.342652124	
## 4	0.73456681	0.95740979	0.01493394	-0.095048166	-0.004865362	
## 5	0.07282012	-0.53410994	-0.05198875	-0.017210186	-0.258941206	
## 6	-0.13516549	0.73216799	-1.44430485	-0.200231345	0.400733899	
## 7	-0.30988347	-0.45127993	-0.37851463	0.069454404	0.279215129	
## 8	-0.34089418	-0.21621336	-1.43203563	0.002789937	1.329061089	
## 9	-0.11160829	0.07248859	-1.29456455	0.129339634	0.753665589	
## 10	0.32580910	0.51185076	0.71907208	0.327437257	-0.721126423	
##	pp_ATM	pp_Acetyl.a.Tubulin.Lys40	pp_Akt	pp_Akt.pS473	pp_Akt.pT308	
## 1	0.72481274		0.4559400	0.12486607	0.2599979	0.20566702
## 2	0.05717866		-0.4435080	0.33335477	0.5647363	0.54081705
## 3	0.17395074		0.6205105	-0.02309007	-0.3911676	0.07028882
## 4	-0.12613384		1.2084262	0.20706285	-0.4860200	-0.39668867
## 5	-0.47947592		0.2798857	-0.01190758	0.5468580	0.50799383
## 6	0.15239679		1.0525564	1.06646142	1.2206938	0.71400267
## 7	0.21166899		-0.1189083	-0.61385144	-0.1368371	0.35017495
## 8	0.23025936		1.0052834	-0.01140321	0.3124897	0.29709814
## 9	-0.52124519		0.9063471	-0.31509398	-0.4804968	-0.43148623
## 10	-0.11618581		0.2317497	0.34486038	-0.7364368	-0.44004178
##	pp_Annexin.1	pp_Annexin.VII	pp_Axl	pp_B.Raf	pp_B.Raf.pS445	
## 1	0.22295913	-0.108861304	0.07075709	0.04125963	0.050811331	
## 2	0.57880099	-0.107025748	0.43038929	-0.17792631	-0.141694395	
## 3	-0.00344909	-0.018672911	-0.07565482	0.39171178	0.004091609	
## 4	-0.73158182	0.044482711	-0.37215173	0.50015264	0.022313940	
## 5	0.98580647	0.176022393	0.20966244	0.12835747	0.203457013	
## 6	0.57537532	-0.297583664	0.03452057	-0.07228122	-0.301628684	
## 7	0.69527148	-0.003933779	0.28696625	-0.67896247	-0.367780169	
## 8	0.13309384	-0.227316381	-0.16214446	-0.06197721	-0.054035935	

## 9	-0.07220973	0.100943503	-0.01358423	-0.56064315	-0.138008001	
## 10	0.34531487	0.072602472	0.17329795	0.78652532	0.442780167	
##	pp_BRCA2	pp_BRD4	pp_Bad.pS112	pp_Bak	pp_Bap1.c.4	pp_Bax
## 1	0.0858726615	0.02092266	0.17567338	-0.09245424	-0.03686402	-0.04807660
## 2	-0.3926060960	-0.72990137	0.44160130	0.04515320	-0.39747125	-0.09233984
## 3	0.0681328220	-0.22358998	0.18743310	-0.37545082	0.13341209	-0.03987291
## 4	-0.0003669697	-0.43536662	0.29365013	0.14104469	0.02820318	-0.59435972
## 5	-0.0604999775	-0.19552622	0.22727945	-0.13793637	-0.31633607	0.13891871
## 6	-0.0368781645	0.30081193	0.25565421	-0.05247232	0.33822573	-0.17479737
## 7	0.0565784670	-0.24444520	-0.04877635	0.05127210	-0.21390158	0.10960736
## 8	0.1854597395	0.22005821	0.26784719	0.59165284	0.39356351	-0.26406226
## 9	0.3748124745	0.92995571	0.07259846	0.73776753	0.54132153	-0.11567128
## 10	0.1307028188	0.57005840	0.14406690	0.36428286	0.25293439	-0.03505655
##	pp_Bcl.2	pp_Bcl.xL	pp_Bcl2A1	pp_Beclin	pp_Bid	pp_Bim
## 1	0.6067643	-0.010951454	-0.13126527	-0.080541592	-0.093600797	0.400727499
## 2	0.3938599	-0.267080712	0.32044265	-0.145822801	-0.110421247	-0.516197117
## 3	1.3312956	0.036586739	-0.05474367	0.066244538	-0.089545460	0.749386916
## 4	1.3155230	0.175159524	-0.09773933	0.605909400	0.253021914	1.443654399
## 5	0.1909340	-0.226223210	0.26921952	0.005157979	-0.081418288	-0.195101586
## 6	-0.8911345	-0.332052537	-0.33115201	0.013469582	-0.308193627	-0.499151864
## 7	0.1950642	0.009396503	0.64503254	0.146858206	0.667522429	0.000828026
## 8	-0.4406522	-0.180598591	-0.14380853	0.083838143	-0.310150955	0.069284391
## 9	-0.1930884	-0.053755367	-0.06555674	0.146217247	-0.003529167	-0.349317649
## 10	1.2949097	-0.280216815	-0.22685875	0.012568627	-0.263752953	1.080512363
##	pp_C.Raf	pp_C.Raf.pS338	pp_CD20	pp_CD26	pp_CD31	
## 1	-0.11048082	0.084132130	-0.246713332	-0.102900107	-0.07468662	
## 2	0.01005790	0.002412613	-0.200031424	-0.088393388	-0.23157831	
## 3	0.01681769	-0.055886303	-0.009937538	-0.084586588	0.17137753	
## 4	0.06412969	0.111585501	0.073813171	-0.001563837	-0.04173930	
## 5	0.04468392	0.241797941	-0.218430612	0.044818709	-0.03054470	
## 6	-0.21798191	-0.303761688	-0.038143034	-0.122703791	-0.01667075	
## 7	0.18331426	0.363328523	0.171744365	-0.374180464	0.21064478	

## 8	0.35021699	0.008595455	0.077874259	-0.259702475	-0.01119753
## 9	-0.11286671	0.046247701	0.289458702	-0.174160877	0.09638175
## 10	0.08971673	0.014397070	-0.037039992	-0.117686313	0.09780045
##	pp_CD49b	pp_CDK1	pp_CDK1.pY15	pp_COG3	pp_Caspase.3
## 1	-0.0002175045	-0.07035675	0.178316318	0.104321491	-0.099492953
## 2	0.1384957545	0.20267968	-0.176800397	0.031154087	-0.227858992
## 3	0.4777961260	-0.28390797	-0.477835487	-0.097603485	-0.426690472
## 4	-0.3696545087	-0.39243762	-0.115604073	0.163207507	-0.196326751
## 5	-0.2010816635	-0.26610778	-0.020884992	-0.099378715	0.055861342
## 6	0.3636887130	-0.30927844	0.323904893	-0.271787950	-0.002534612
## 7	0.2213695330	0.34692991	-0.129219962	-0.763838395	0.161264012
## 8	-0.0892078885	0.35403400	0.794832835	-0.225949605	0.236464583
## 9	-0.2022098575	0.39933854	0.000773182	0.196886970	0.373558572
## 10	-0.3016762383	-0.34669444	-0.521373975	0.006425423	0.093332270
##	pp_Caspase.7.cleavedD198	pp_Caspase.8	pp_Caveolin.1	pp_Chk1	
## 1		-0.19839129	-0.04688084	-0.1490297	-0.13326228
## 2		-0.42918682	-0.03527528	0.1376876	0.05704981
## 3		-0.15718172	-0.21744118	0.5072077	-0.18428675
## 4		-0.34656234	0.27375489	-0.3956700	0.13130504
## 5		-0.08950156	0.04211046	-0.1004651	0.07131909
## 6		-0.01274369	-0.28827006	-1.2126350	-0.13898052
## 7		0.78823415	0.23549030	0.7255275	0.57853329
## 8		1.41522820	-0.25618612	-0.5644436	-0.10241613
## 9		-0.15261114	0.14259702	-1.0073203	0.02834769
## 10		-0.12426544	-0.12872254	0.3657138	-0.23031042
##	pp_Chk1.pS296	pp_Chk1.pS345	pp_Chk2	pp_Chk2.pT68	pp_Claudin.7
## 1	-0.151880202	-0.09145725	0.20927364	-0.13724175	0.05199285
## 2	-0.238308639	-0.08846210	0.00224269	0.01681267	-0.38851257
## 3	-0.352920969	-0.07861823	-0.22614202	-0.35906199	-0.01905699
## 4	-0.005763171	-0.01220812	0.48534488	-0.10059388	0.41709893
## 5	-0.024216761	-0.21855118	-0.20567059	-0.02703191	-0.25355413
## 6	0.291673806	-0.21279724	0.63985749	0.09564483	1.53171891

## 7	0.366988872	0.06758853	-0.35220598	0.63898136	-0.40741605	
## 8	-0.073147307	0.35135794	0.66882296	0.31043876	-0.67221662	
## 9	0.156145676	0.05132005	0.51568512	0.29728400	-0.59237349	
## 10	0.007136731	-0.19360971	-0.30276540	-0.21778904	-0.15478122	
##	pp_Collagen.VI	pp_Cyclin.B1	pp_Cyclin.D1	pp_Cyclin.E1	pp_Cyclin.E2	
## 1	0.3963137	-0.7744902	-0.32520097	-0.09997244	-0.31375211	
## 2	-0.9190238	-1.5930881	-0.33613269	-0.09777761	-0.22556170	
## 3	0.7492401	0.5755877	0.15051218	0.34073801	-0.18889169	
## 4	-0.3019552	-0.4126847	0.25877741	-0.35434474	-0.11917279	
## 5	0.7819548	-1.2298663	0.01193955	-0.20775655	-0.37343650	
## 6	-1.1544152	0.1919503	-1.12035869	1.15224008	-0.06881072	
## 7	1.6846418	-0.7802457	0.18073467	-0.07229226	-0.20397497	
## 8	-0.2211391	1.3387286	-0.23192391	1.12792394	0.34316186	
## 9	-0.1280647	1.5379546	-0.03698950	1.09947256	0.45290185	
## 10	-0.2418167	-0.2768945	-0.07401878	-0.14591502	0.26714066	
##	pp_DIRAS3	pp_DJ.1	pp_DUSP4	pp_Dvl3	pp_E.Cadherin	pp_EGFR
## 1	0.05655131	0.07483597	-0.27459424	-0.20829183	0.87664084	-0.08578614
## 2	-0.09685394	0.11262261	0.53108173	0.55393184	0.01604268	0.18089842
## 3	-0.05340013	0.45598393	-0.09909729	-0.22853950	0.26787128	0.03207035
## 4	0.22228219	0.61317477	0.73780223	-0.05368339	0.61557666	-0.16716324
## 5	0.08762926	0.29967993	0.04455419	0.00290026	-0.12790428	-0.03347705
## 6	0.16988048	-0.52775008	0.27655770	0.10634080	0.15321315	0.81024243
## 7	0.57162695	-0.12344006	-0.21631214	-0.28748601	-0.02940695	0.64296324
## 8	-0.02552791	-0.19660743	-0.11672006	0.19807904	0.24463022	-0.05184073
## 9	0.33668108	-0.27312678	0.04744369	0.36627514	-0.56052563	0.02908340
## 10	-0.04896224	-0.02081350	-0.04331126	0.39681992	0.23285751	-0.24301542
##	pp_EGFR.pY1068	pp_EGFR.pY1173	pp_ENY2	pp_EPPK1	pp_ER.alpha	
## 1	0.329729918	-0.13518901	0.07383923	0.62786626	1.1814636	
## 2	0.482519474	-0.08071346	0.07440472	1.08825423	-1.5565488	
## 3	-0.367908750	-0.05783599	0.10553534	1.31267463	0.5253273	
## 4	-0.350691099	0.17429998	-0.15492990	0.07611068	1.6201196	
## 5	-0.022660595	-0.05168591	-0.07156515	2.29711562	-0.4861578	

## 6	0.456201780	-0.38608749	0.26254716	1.04617926	-1.3880522	
## 7	0.397769908	0.40745099	-0.67276551	-1.20826345	-1.1188325	
## 8	0.019377104	-0.06085897	0.15306535	0.44315231	-2.5701070	
## 9	-0.007226871	0.06134706	0.06382379	-2.97096996	-2.3900848	
## 10	-0.334130173	-0.03799814	-0.03752423	1.40929269	1.1340473	
##	pp_ER.alpha.pS118	pp_ERCC1	pp_ERCC5	pp_ERK2	pp_ETS.1	
## 1	-0.069964306	-0.22346060	-0.008217473	-0.053461296	-0.101834307	
## 2	-0.415933842	-0.03918445	-0.096913166	0.177452482	0.000000000	
## 3	0.591029315	-0.12568498	-0.298836747	0.344380598	-0.129424457	
## 4	1.198189975	0.31562145	-0.224407203	0.459020659	0.343423926	
## 5	-0.511966240	-0.06838173	0.103777539	0.003335467	-0.217122164	
## 6	-0.253405286	0.03219844	-0.290146625	0.168519600	-0.061140536	
## 7	-0.384777591	0.08247908	-0.791139171	-0.313369551	0.070725646	
## 8	-0.165616279	-0.05318772	0.250749430	-0.032335328	-0.005183091	
## 9	-0.009769749	0.13733935	-0.213346681	-0.082900319	-0.144087247	
## 10	-0.061656454	-0.13676201	0.148456910	-0.064253875	-0.442374316	
##	pp_FASN	pp_FOX03a	pp_FOX03a.pS318.S321	pp_Fibronectin	pp_FoxM1	
## 1	-0.17954041	0.08904207	0.03505214	-0.47883017	-0.3166855	
## 2	3.15488081	0.13873152	0.19060873	-0.04920369	-0.7127218	
## 3	0.56310854	0.13196747	0.01198384	0.03441632	0.1232605	
## 4	0.66540286	-0.05065397	0.14199406	-0.26614115	-0.2695481	
## 5	-0.84005014	0.11487754	0.12448302	1.50534095	-0.3359246	
## 6	-0.04126093	-0.15293150	0.20013290	0.12855983	0.7729597	
## 7	-1.07466471	0.22725042	0.23111485	-0.22136485	0.1503556	
## 8	-1.15017858	0.13812187	0.23353232	-0.32151384	1.7647437	
## 9	-1.04300140	-0.17211679	0.02530709	0.66371843	0.6372415	
## 10	-0.17564167	0.47724869	0.01681754	0.75477644	-0.1208934	
##	pp_G6PD	pp_GAB2	pp_GAPDH	pp_GATA3	pp_GATA6	pp_GCN5L2
## 1	-0.25848385	0.1995964	-0.26267390	0.5916704	0.006048605	0.32171053
## 2	0.47187269	-0.2601021	-0.34515082	-0.3651798	-0.114966779	-0.27654924
## 3	0.64079184	2.2759344	0.24299811	0.3229709	-0.080606272	-0.33181413
## 4	-0.25904280	2.2489167	-0.35876799	1.4806773	-0.217306142	0.02540851

## 5	-0.11832132	-0.2597954	0.06920744	-0.2454039	0.098802411	-0.33773087
## 6	0.51855246	-0.1596498	2.43379044	-1.2098441	0.188483821	0.64517318
## 7	-0.04811590	-0.3695288	-1.45091542	-1.4722104	0.289768572	-0.48224531
## 8	-0.09649206	0.1249398	1.47095775	-1.9789447	0.292118148	0.10285831
## 9	-0.10823727	0.2576897	0.64746192	-2.0326617	0.123122473	0.75731245
## 10	-0.21902151	0.7612232	0.13491180	1.8260976	-0.116228128	0.30628667
##	pp_GSK3.alpha.beta pp_GSK3.alpha.beta.pS21.S9 pp_GSK3.pS9 pp_HER2					
## 1	0.006442482		0.7024339	0.42413634	0.001086795	
## 2	0.061233152		0.8242595	0.82764375	0.532980082	
## 3	0.023683938		0.7554720	0.06350052	0.092221197	
## 4	-0.053730361		0.3771813	0.58735608	0.076133236	
## 5	0.069661444		0.1972166	0.31133500	-0.699090459	
## 6	0.936712458		0.3079980	-0.10284368	-0.269395396	
## 7	-0.461734700		-0.7834693	-0.52403979	-0.994262119	
## 8	-0.060355949		0.1618249	0.18549071	-0.475830667	
## 9	-0.039868048		-0.5335123	-0.50039565	-0.946664497	
## 10	0.208497453		-0.1407685	-0.27471243	0.168442918	
##	pp_HER2.pY1248 pp_HER3 pp_HER3.pY1289 pp_HSP70 pp_Heregulin					
## 1	0.092700716	0.31701842	0.145925916	0.8061924	-0.149171381	
## 2	0.464954088	-0.15239774	0.301291824	-0.3322930	0.006104715	
## 3	-0.002081353	0.26882827	-0.230391946	0.6314941	-0.071118046	
## 4	-0.097325397	0.52399581	-0.151235632	-0.1290518	-0.158664287	
## 5	-0.184336187	-0.35773900	-0.039213616	-0.1475781	-0.146547897	
## 6	-0.287434361	0.03754366	-0.073100825	-1.5091114	0.261899516	
## 7	0.143154512	-0.38023475	0.563742158	2.1600936	0.179103944	
## 8	-0.218922510	0.03605956	0.005707929	-0.5312281	0.155514155	
## 9	-0.429778720	-0.62800032	0.323940005	-0.6435061	0.220545231	
## 10	-0.075242026	0.82262535	0.009921002	-0.6544184	-0.022890021	
##	pp_IGF1R.pY1135.Y1136 pp_IGFBP2 pp_INPP4B pp_IRF.1 pp_IRS1					
## 1	-0.07389869	-0.16428758	0.7040547	-0.26192974	0.31102695	
## 2	-0.18468398	0.26135499	0.8241566	-0.02283736	0.24707700	
## 3	0.03352646	-0.32719754	1.2892818	-0.22080521	0.63049880	

## 4	-0.13425862	1.82794441	0.5606222	-0.06811162	0.08262886
## 5	0.23810706	-0.70132892	0.7549021	-0.13564827	-0.22772700
## 6	-0.13768058	-0.80095293	-0.7430863	-0.41038129	-0.36271261
## 7	0.49071191	-0.53754058	-0.8575171	0.06829855	0.25788115
## 8	-0.11680487	-0.61051023	-1.6199629	-0.03188128	-0.26665384
## 9	0.09619356	-0.09055814	-1.4831958	-0.11833429	-0.08195011
## 10	-0.06703920	1.12768545	0.7834664	-0.25240362	0.33662227

##	pp_JAB1	pp_JNK2	pp_JNK.pT183.pY185	pp_Jak2	pp_Ku80
## 1	-0.12794430	0.08539105	0.54800975	-0.19492790	0.05169053
## 2	0.01936778	0.21199496	1.13981445	-0.20324679	0.16693397
## 3	-0.11173334	0.11849615	-0.22615440	-0.49161500	-0.41085955
## 4	-0.17191558	0.22131479	0.27922479	-0.24045119	-0.09596730
## 5	0.10201878	-0.10887411	0.64801289	-0.47243051	-0.54486938
## 6	0.26310413	0.02715311	-0.42124548	0.17179076	0.42327256
## 7	0.20171474	-0.36282459	0.16534466	-0.26275052	-0.75884165
## 8	0.05617358	-0.01957285	-0.08301512	0.13053445	-0.14654686
## 9	-0.08093079	-0.50428402	-0.32306686	0.14498378	-0.07720852
## 10	-0.10540312	0.05095566	-0.05712723	0.06979084	-0.40261949

##	pp_LKB1	pp_Lck	pp_MAPK.pT202.Y204	pp_MEK1	pp_MEK1.pS217.S221
## 1	0.046822101	0.3743666	0.2533284	-0.167328738	-0.0620358540
## 2	0.096056980	0.1225634	1.0962637	0.335460806	0.2237888330
## 3	0.007246645	0.4896252	-0.4659902	0.408592356	-0.0439939385
## 4	0.059274377	-0.2590017	0.5035503	0.372550141	0.0003669698
## 5	0.065317632	0.3011218	1.6634350	0.301977359	1.0556545880
## 6	0.038885940	0.2426300	-1.4943153	0.049634658	-0.1316010245
## 7	0.346640181	0.8944774	-0.2119542	-0.008557181	0.1075475865
## 8	-0.126555123	0.1726393	-0.1486354	-0.320948604	-0.0303082700
## 9	-0.046632246	-0.2912807	-0.3830373	0.003223693	-0.1565389580
## 10	-0.139728794	-0.2041965	0.2349482	-0.187395605	0.1765036262

##	pp_MIG.6	pp_MSH2	pp_MSH6	pp_MYH11	pp_Mre11	pp_Myosin.IIa
## 1	-0.09248463	0.1481420	0.0002175045	0.90676409	-0.067025458	-0.25940914
## 2	-0.06127330	-0.3802139	-0.2517743420	0.19732799	-0.064646414	-0.12606463

## 3	0.10717896	0.1033122	0.0746300970	2.39676028	0.024091306	-0.24012453
## 4	-0.10224453	0.1624802	0.1243553502	0.51812130	-0.050688032	-0.31284061
## 5	0.04640755	-0.3568487	-0.5794144665	-0.12112145	0.140240342	0.13900038
## 6	-0.25447781	1.2132650	1.6295601255	0.52191042	-0.280857435	-0.09219563
## 7	-0.06135716	-0.1525921	-0.4321867540	2.00432043	0.553647401	-0.27120263
## 8	-0.05858763	1.2074159	1.5032784235	-0.67090123	-0.144699903	0.08138467
## 9	0.48796723	1.2310354	1.5441579035	-0.08588978	-0.000773182	0.19089850
## 10	-0.21345486	0.1332348	0.1268722147	-1.21922987	-0.108395093	0.38213364
##	pp_Myosin.IIa.pS1943 pp_N.Cadherin pp_N.Ras pp_NDRG1.pT346					
## 1	0.06669925	-0.15045956	-0.10471506	0.06549212		
## 2	-0.33347893	0.09727121	-0.01581246	0.09308623		
## 3	-0.10155079	-0.17118343	0.06392735	-0.13489562		
## 4	0.11262736	0.38354365	-0.01533401	-0.18232460		
## 5	0.21355996	-0.05078172	0.03008900	1.04089647		
## 6	-0.69149202	-0.25082118	0.25936305	1.84375465		
## 7	-0.19407645	0.91130868	0.45504541	0.43733736		
## 8	0.24628600	-0.23770277	0.18446064	0.86265178		
## 9	0.19453857	0.03460078	0.26805911	-0.01004847		
## 10	0.37632807	-0.38771444	0.19579260	-0.50892876		
##	pp_NF.kB.p65.pS536 pp_NF2 pp_Notch1 pp_P.Cadherin pp_PAI.1					
## 1	0.3440833	-0.15170140	-0.201937658	-0.156142042	-0.3784503	
## 2	0.3713190	0.11828607	-0.054253169	-0.021193046	-0.4280575	
## 3	0.4124852	-0.51478182	0.111640771	0.068744239	1.0890951	
## 4	0.1283218	0.13872542	-0.300676022	-0.167802915	0.4379381	
## 5	0.7428530	-0.26684160	-0.008047096	-0.053983832	1.0825358	
## 6	0.4489806	0.74730101	0.170615840	0.170209379	0.4092204	
## 7	-0.5946265	-0.41319300	0.457727767	0.318825258	-0.1064052	
## 8	0.9455794	-0.38637906	0.402983224	0.003278686	-0.1836812	
## 9	-0.3101881	0.07742064	0.143737187	-0.007610825	0.4267297	
## 10	0.6147198	-0.26709542	-0.167924294	-0.086113798	-0.1596048	
##	pp_PARP1 pp_PARP.cleaved pp_PCNA pp_PDCD4 pp_PDK1					
## 1	0.05193760	-0.07355652	-0.17631602	0.54542703	-0.073717985	

## 2	-1.17510577	-0.25285009	-0.10014155	0.08129156	-0.026898502
## 3	-0.07870963	-0.45254613	0.18343984	-0.35141227	0.334506826
## 4	-0.01174822	-0.04673304	-0.20830686	-0.62190575	0.171502080
## 5	-0.34477200	0.09421257	-0.17422362	0.70270772	0.197561096
## 6	1.13234942	0.25364944	-0.10225553	1.01108125	-0.295321923
## 7	-0.78669137	0.20937670	-0.05510044	0.10742285	0.012165616
## 8	0.67357964	0.38351461	0.17608519	-0.08695695	0.004830304
## 9	0.66055500	0.78268216	0.34048635	-0.24043438	-0.285044067
## 10	0.15719222	0.07840156	-0.03651338	0.23533337	0.261849790
##	pp_PDK1.pS241	pp_PEA15	pp_PEA15.pS116	pp_PI3K.p110.alpha	pp_PI3K.p85
## 1	0.04397462	-0.106972959	-0.13816746	0.14743279	0.17718467
## 2	-0.11138710	0.284931659	0.01388658	0.18698052	-0.10188487
## 3	0.39503062	0.357500510	-0.02577309	0.25290368	-0.06043554
## 4	0.16445400	0.933673120	0.08281558	-0.15978341	0.08642008
## 5	0.25928797	0.375866822	-0.09326634	-0.03504323	0.16258521
## 6	-0.52194411	-0.462555763	0.08916634	3.12748012	1.40430358
## 7	-0.42103779	-0.297897270	0.51548625	-0.02431852	0.05232664
## 8	-0.02197811	-0.236123811	-0.20202739	0.11790722	-0.12371245
## 9	-0.55766247	-0.269286416	0.01454010	0.01835055	-0.38753353
## 10	0.50326218	-0.002083921	-0.38142049	0.24981808	0.05094167
##	pp_PKC.alpha	pp_PKC.alpha.pS657	pp_PKC.delta.pS664	pp_PKC.pan.BetaII.pS660	
## 1	0.17893554	0.3188121	0.20636380	0.22640719	
## 2	0.11764555	0.6858480	0.10619297	0.28535544	
## 3	-0.04602241	0.1008621	-0.15454358	-0.22794268	
## 4	-0.36155981	-0.2926910	0.12854478	0.11669040	
## 5	0.49221228	0.5070151	0.03117670	0.11723726	
## 6	-0.08271871	-0.1698073	-0.17686733	-0.28303039	
## 7	0.40358848	0.6132889	0.15974476	-0.37741094	
## 8	0.40559798	0.4530719	0.03429986	0.35247706	
## 9	-0.10599303	-0.1308951	-0.10305097	-0.62701626	
## 10	0.16200431	0.1266633	-0.19253025	0.02766363	
##	pp_PR	pp_PRAS40.pT246	pp_PRDX1	pp_PREX1	pp_PTEN pp_Paxillin

## 1	0.10491618	0.024662789	-0.18769880	0.8093582	0.11242978	-0.08538919
## 2	3.84908392	0.102569143	-0.15313636	-0.3847203	0.63604450	0.38789253
## 3	0.08695753	0.014400609	0.54521373	1.7811302	-0.21325369	-0.08110152
## 4	0.44718727	0.068360038	0.21999125	2.3270267	0.59126356	-0.22798026
## 5	0.15423204	0.020323164	0.01983419	0.1404135	-0.06104554	-0.36251387
## 6	0.02538641	0.313502157	0.10511116	-0.6753603	1.13531237	-0.33467781
## 7	0.19973259	0.006402324	0.06154439	-0.4561459	-0.15420502	-0.14063495
## 8	-0.04547767	0.119583544	0.17220948	-0.3058369	-0.25494879	-0.28221615
## 9	0.05753048	0.152725271	-0.17373349	-1.0234915	0.56382611	0.16509525
## 10	-0.09514506	-0.145454204	-0.07824969	0.8621954	0.15040836	0.02938369

##	pp_RBM15	pp_Rab11	pp_Rab25	pp_Rad50	pp_Rad51	pp_Raptor
## 1	-0.41676467	-0.10293244	0.11860664	0.13207103	-0.29770038	0.28331623
## 2	-0.30922656	-0.32033864	-0.11497878	-0.08193525	-0.06493066	0.06104129
## 3	-0.42236282	0.07931263	-0.49853512	0.04709717	0.04769199	0.26839025
## 4	0.09261598	-0.02106263	0.49432824	-0.30520893	-0.26437959	0.63419955
## 5	-0.75224728	0.12239307	-0.53380995	0.05168783	-0.26724114	0.05619377
## 6	2.23718744	0.00000000	1.11126665	-0.44965367	0.01482293	0.51016332
## 7	-0.97096934	0.78411416	-0.37967843	-0.03560919	0.22539878	-0.22441466
## 8	0.51266101	-0.39532156	0.32695684	-0.15323030	0.33610668	-0.06447519
## 9	1.03688919	-0.23245706	-0.02670863	-0.36928487	0.23327524	0.28783810
## 10	0.20140120	-0.28718002	0.19243834	-0.01776330	-0.15969153	0.22197455

##	pp_Rb	pp_Rb.pS807.S811	pp_Rictor	pp_Rictor.pT1135	pp_S6
## 1	0.002349577	0.3351466	0.19532527	0.18563373	-0.34124918
## 2	-0.039601309	0.3860212	-0.21330703	-0.07338775	-0.48381669
## 3	-0.138331152	-0.3133892	0.60924756	0.05047383	-0.39418023
## 4	0.380789209	0.2454520	0.43406509	0.49354651	-0.02511998
## 5	-0.081355976	-0.1034113	-0.31607711	-0.03140272	-0.59038850
## 6	-0.586638980	-0.7061967	0.01877240	-0.42171512	0.75129206
## 7	0.514548175	-0.5219330	0.43228015	0.41842953	-0.34605193
## 8	-0.263274986	-0.4602458	-0.04930488	-0.14982816	0.36282002
## 9	0.041466560	-0.6481359	0.06093276	-0.11643909	0.54348126
## 10	-0.178146827	-0.4516839	0.02633814	-0.17104590	0.40037149

##	pp_S6.pS235.S236	pp_S6.pS240.S244	pp_SCD	pp_SETD2	pp_SF2	
## 1	-0.586693144	-0.7265941	-0.26462337	-0.118261872	-0.060414833	
## 2	-0.165293395	-0.1960326	-0.24767110	-0.059263025	-0.093825209	
## 3	-0.389490320	-0.6777059	-0.19128057	0.236741385	0.002676048	
## 4	-0.498278440	-0.4173393	-0.07543720	0.040710498	-0.090468838	
## 5	0.560116778	0.1656743	-0.16802559	-0.017880625	-0.117905861	
## 6	0.352346164	0.3950913	0.03931597	0.003250929	-0.184008005	
## 7	-0.349410463	-0.4406040	0.03177880	0.306544092	-0.064444961	
## 8	-0.141251112	-0.1321984	0.02649759	0.038436241	0.109711766	
## 9	-0.005652516	-0.5222101	0.18302685	0.159734557	0.369172729	
## 10	0.249197425	-0.4918346	0.08955661	0.038578067	0.110218676	
##	pp_SHP.2.pY542	pp_SLC1A5	pp_STAT3.pY705	pp_STAT5.alpha	pp_Shc.pY317	
## 1	0.34444656	-0.21846332	0.493888088	0.44216762	0.10369018	
## 2	0.21022093	-0.45422989	0.102849677	1.42687361	0.38993252	
## 3	-0.39969773	0.01572185	-0.330343904	-0.42365406	-0.10813641	
## 4	-0.38973923	-0.58472583	-0.205186850	0.05301033	-0.26149656	
## 5	0.28126324	-0.48465725	0.219283879	-0.19765742	0.05199717	
## 6	-0.06708876	1.03626026	0.058915168	0.11339499	0.14663065	
## 7	-0.01171302	-1.08162567	0.181667781	0.04995590	0.24523869	
## 8	0.07154364	-0.04785476	-0.264210893	-0.05235168	0.08400771	
## 9	-0.19183392	-0.03894300	-0.009781143	0.11029365	-0.15002616	
## 10	-0.15748954	-0.22737152	-0.105475144	0.07423568	-0.20770281	
##	pp_Smac	pp_Smad1	pp_Smad3	pp_Smad4	pp_Snail	pp_Src
## 1	-0.11260118	-0.098221624	-0.11847054	-0.0835856035	-0.24282136	0.18960575
## 2	-0.07388310	0.212020685	-0.04388837	-0.0980532365	-0.12088010	-0.07262744
## 3	-0.23743383	0.004713827	-0.01465256	0.0690710380	-0.29007257	0.70702137
## 4	-0.34901680	0.035151226	0.23736906	-0.0009829108	0.22137347	-0.38528031
## 5	0.31719309	-0.138064902	-0.32923070	-0.0029002595	-0.04049804	0.13601714
## 6	-0.07725787	0.368180481	-0.39833880	-0.1957355730	-0.03827672	-0.55702093
## 7	-0.34124895	-0.198559073	-0.17701898	0.2183534130	0.04892668	0.06965121
## 8	0.17393950	-0.092543985	0.08909865	0.2322618645	-0.09268955	0.35559259
## 9	0.22838673	-0.014121193	0.47967303	0.1547309115	0.24184705	0.27083346

## 10	0.59737894	0.212194392	0.25154733	0.1303850008	-0.06058442	-0.06390636
##	pp_Src.pY416	pp_Src.pY527	pp_Stathmin	pp_Syk	pp_TAZ	pp_TFRC
## 1	0.45751399	0.5263538	0.007085407	-0.3087868	0.006072318	-0.43074262
## 2	0.10652146	0.6935479	0.023710963	-0.1517815	-0.048764033	0.04488245
## 3	0.12819699	-0.4574862	-0.067220978	-0.4104925	-0.055343295	-0.72189846
## 4	-0.27737672	-0.1209211	0.242289068	-0.4746528	-0.110868131	-0.62348925
## 5	0.08065765	0.6335510	0.018398148	-0.2146525	0.213260302	-0.26931767
## 6	-0.24941489	-0.4017056	-0.292363411	1.9452838	-0.132595098	0.03694840
## 7	0.07456008	0.4490348	0.775057850	-0.1743396	0.328945673	-1.14127911
## 8	0.04559057	0.4877985	0.100720487	1.3098840	-0.059252449	2.44530566
## 9	-0.15186483	-0.3588105	0.368996392	-0.2118180	0.694460267	-0.17701046
## 10	-0.29391249	-0.5382789	-0.115455678	0.1423026	0.190509511	-0.75775861
##	pp_TIGAR	pp_TSC1	pp_Transglutaminase	pp_Tuberin	pp_Tuberin.pT1462	
## 1	0.30951045	0.131346041	-0.16806595	0.100690071	0.30485719	
## 2	-0.05372203	0.117277324	-0.23262784	0.004978734	0.21213734	
## 3	-0.20866145	0.178693930	0.31778869	-0.397809893	0.27597925	
## 4	0.01619597	0.235663221	-0.30014307	0.389756258	0.15841322	
## 5	0.10609700	0.166391774	-0.05843642	-0.374503670	0.08685452	
## 6	-0.17034378	0.554249448	0.62469208	0.175252021	0.09375666	
## 7	0.09403831	-0.000828026	-0.17590534	-0.549800089	0.16192960	
## 8	0.11506156	-0.002789937	0.12414576	-0.055955660	0.19413482	
## 9	-0.10135703	0.224979134	-0.04357619	0.007099135	-0.10413695	
## 10	0.02834319	0.322128073	-0.14757459	0.199166294	-0.16774409	
##	pp_VEGFR2	pp_XBP1	pp_XRCC1	pp_YAP	pp_YAP.pS127	pp_YB.1
## 1	-0.11658356	-0.16525252	0.186194169	0.03403409	0.429606757	-0.31186760
## 2	-0.69937254	-0.07550642	-0.003801221	0.02842427	0.699927648	-0.06248771
## 3	0.86565796	-0.13861868	-0.304095257	0.37128376	1.255105834	-0.01648718
## 4	0.48690898	-0.07655232	0.633322345	-0.24704544	-0.346866892	0.06131228
## 5	0.56891744	-0.10526209	-0.222083154	0.31248053	0.778481107	-0.20266572
## 6	-0.74956809	-0.02958025	-0.138236792	-0.31888842	0.461961970	-0.08530998
## 7	-0.87093555	0.07840106	-0.173029892	0.27467605	0.105087684	-0.33419549
## 8	-0.55677714	-0.14209236	-0.219883650	-0.01196877	-0.301077677	-0.16713071

## 9	0.06704853	-0.02804208	0.247824852	0.14662457	0.001922457	0.39231353
## 10	0.63554768	-0.04379087	0.119580586	0.08841584	-0.025249284	0.05241940
##	pp_YB.1.pS102	pp_beta.Catenin	pp_c.Abl	pp_c.Jun.pS73	pp_c.Kit	
## 1	-0.02689280	0.6262808	-0.157971429	0.08928124	0.79710026	
## 2	0.12323738	0.4021819	0.018522040	0.40364273	0.70640270	
## 3	-0.21715686	-0.3176251	-0.337285027	-0.25897343	0.22354800	
## 4	-0.02425172	0.9693034	-0.249833227	-0.03799842	-0.20925760	
## 5	0.32659578	-0.3126808	0.079468180	0.29100677	1.06307612	
## 6	0.09432485	0.4667863	-0.209441600	0.10489299	1.24645372	
## 7	0.26653859	-0.3442146	0.084942729	0.13935623	2.11722049	
## 8	-0.01555901	0.1734768	-0.101529900	0.13294985	1.23488287	
## 9	-0.09938321	-0.5153367	-0.088220513	-0.02118508	0.04092878	
## 10	0.01097895	0.2167042	0.002083921	-0.10416382	-0.14051631	
##	pp_c.Met	pp_c.Met.pY1235	pp_c.Myc	pp_cIAP	pp_eEF2	
## 1	-0.159530834	-0.09351512	0.383546188	0.236109634	-0.14498943	
## 2	-0.076541298	-0.07180126	-0.213369950	0.006367988	0.08947726	
## 3	-0.001280385	0.01805726	-0.052187236	0.312086154	-0.24331546	
## 4	0.232405600	-0.04214728	0.159074400	0.228234371	-0.54776199	
## 5	-0.092542402	-0.02136216	0.241797774	0.128055461	-0.34321272	
## 6	-0.199392302	-0.06558126	0.430487286	0.222699492	-0.18783047	
## 7	0.297226351	0.42762745	1.174591427	-0.239057207	-0.48251771	
## 8	-0.072218793	0.06117913	-0.092861363	0.167918869	-0.07159947	
## 9	0.138641301	0.32553013	-0.005866656	-0.141608416	0.18558948	
## 10	-0.136205527	0.22194796	-0.583131968	0.154074697	-0.02106024	
##	pp_eEF2K	pp_eIF4E	pp_eIF4G	pp_mTOR	pp_mTOR.pS2448	pp_p16.INK4a
## 1	0.64460107	0.05762170	-0.20180137	0.28005110	0.00370666	0.19042821
## 2	0.07517035	0.40333721	0.34430846	-0.43491156	0.25832975	0.89019386
## 3	0.05580048	0.22683585	0.05126257	0.03232197	-0.12881523	-0.01236628
## 4	0.61713043	0.01805400	-0.02508498	0.53345134	0.06939529	-0.31174931
## 5	-0.21119907	0.19801774	-0.40271160	-0.26101315	-0.01979739	0.45060184
## 6	-0.77752737	-0.07551101	0.93002531	0.65211274	0.31026574	1.47420144
## 7	0.04023345	-0.08775479	-0.42833689	-0.35462960	-0.10094183	-0.42577514

## 8	-0.13959217	0.28386580	0.47513033	-0.32719273	-0.18879444	1.43353410
## 9	-0.37771338	0.23248196	0.36939908	-0.10717831	-0.23919788	2.32635959
## 10	0.33923407	0.04799318	0.16190090	0.19920415	-0.08768294	0.15188886
##	pp_p21	pp_p27	pp_p27.pT157	pp_p27.pT198	pp_p38.MAPK	
## 1	-0.20358689	-0.02227344	-0.027042234	-0.04332997	-0.002598394	
## 2	0.30093611	-0.10174632	-0.071406261	-0.22076369	0.220809271	
## 3	-0.05012127	0.11974950	0.001280385	0.01061515	-0.133214000	
## 4	-0.08299546	0.78077572	-0.024495538	0.06407043	-0.384007691	
## 5	0.45285984	0.10046993	-0.081189464	-0.06548803	0.209858160	
## 6	-0.50304189	-0.30585357	-0.111133556	0.13402988	-0.338480293	
## 7	-0.02032589	0.23033413	0.396876128	0.27692401	-0.190843879	
## 8	-0.29300152	0.27534406	0.023802086	0.04656611	0.021015780	
## 9	0.13985042	0.37866478	0.069808962	0.22391546	-0.207887101	
## 10	0.25348863	0.46579386	-0.126733159	-0.02762814	0.092449761	
##	pp_p38.pT180.Y182	pp_p53	pp_p62.LCK.ligand	pp_p70S6K	pp_p70S6K.pT389	
## 1	0.4492276	-0.37522957	-0.69176636	-0.33786329	-0.17850293	
## 2	1.0351149	-0.07413642	0.27906699	0.29292532	-0.15524196	
## 3	0.3449689	-0.35193557	0.21990960	0.30810973	-0.19079432	
## 4	0.6780417	0.09632888	-0.26655361	-0.07987070	-0.46323724	
## 5	0.9204080	0.04221035	-0.44154164	-0.15231735	0.51138649	
## 6	-0.6699337	-0.21785065	0.27499477	-0.07727569	-0.11731032	
## 7	-0.2187756	0.63557500	-0.71163102	-0.51696006	0.25103128	
## 8	0.3537638	1.14524071	0.57333979	-0.09337942	-0.04855351	
## 9	-0.5447903	0.14133869	-0.48058958	-0.21781018	-0.15672338	
## 10	0.1087499	-0.27122071	0.02128078	0.15259129	-0.32782459	
##	pp_p90RSK	pp_p90RSK.pT359.S363	PR.Status	ER.Status	HER2.Final.Status	
## 1	0.01163797	-0.20725681	Positive	Positive	Negative	
## 2	-0.08936528	0.26752956	Positive	Negative	Negative	
## 3	-0.22214957	-0.19851836	Positive	Positive	Negative	
## 4	0.52299814	-0.04690228	Positive	Positive	Negative	
## 5	-0.09648247	0.03747280	Positive	Positive	Negative	
## 6	0.28419472	-0.04847390	Negative	Negative	Negative	

```
## 7    0.01578516          0.67703987 Negative Negative      Negative
## 8    0.23604626         -0.10163975 Negative Negative      Negative
## 9   -0.23225855         -0.10291928 Negative Negative      Negative
## 10  -0.13833020         -0.40891905 Positive Positive      Negative
##
##          histological.type
## 1  infiltrating ductal carcinoma
## 2  infiltrating ductal carcinoma
## 3  infiltrating ductal carcinoma
## 4  infiltrating ductal carcinoma
## 5  infiltrating ductal carcinoma
## 6  infiltrating ductal carcinoma
## 7  infiltrating ductal carcinoma
## 8  infiltrating ductal carcinoma
## 9  infiltrating ductal carcinoma
## 10 infiltrating ductal carcinoma
```

Structure of data:

```
#str(brca_data)
```

PR.Status, ER.Status, and HER2.Final.Status are determined using immunohistochemistry scoring. For these variables, we will only consider two levels: “Positive” and “Negative”. For histological.type, we will only consider “infiltrating lobular carcinoma” and “infiltrating ductal carcinoma”. You can treat all other categories as missing values. Hence, all four outcomes should be binary.

```
which(colnames(brca_data)=="PR.Status")
```

```
## [1] 1937
```

```
which(colnames(brca_data)=="ER.Status")
```

```
## [1] 1938
```



```
which(colnames(brca_data)=="HER2.Final.Status")
```

```
## [1] 1939
```

```
which(colnames(brca_data)=="histological.type")
```

```
## [1] 1940
```

Check for null values:

```
colSums(is.na(brca_data[, 1937:1940]))
```

```
##          PR.Status          ER.Status HER2.Final.Status histological.type
##                0                0                0                0
```

– check for closely correlated variables and leave only one

```
suppressMessages(library(caret))
```

```
suppressMessages(library(dplyr))
```

```
# store the predictors
```

```
predictors = brca_data %>% select(c("PR.Status", "ER.Status", "HER2.Final.Status", "histologic"
```

```
# remove the categorical var temporarily
```

```
brca_data = brca_data %>% select(-c("PR.Status", "ER.Status", "HER2.Final.Status", "histologic"
```

```
# use correlation matrix
```

```
#cor_mat = cor(brca_data)
```

```
# returns vector of indices to remove
```

```
#cor_list = findCorrelation(cor_mat, cutoff = .8)
```

Drop the highly correlated columns

```
#brca_data = brca_data[, -c(cor_list)]  
#brca_data
```

We still have 1087 col left...

```
# categorical variables
brca_data[605:1464]
```

##	cn_ISG15	cn_PLCH2	cn_SAMD11	cn_TNFRSF18	cn_BAI2	cn_TEKT2	cn_DNALI1	cn_RSP01
## 1	0	0	0	0	1	1	1	1
## 2	-1	-1	-1	-1	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	1	1	1	1	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	1	2	2	2
## 9	2	2	2	2	-1	2	2	2
## 10	0	0	0	0	0	0	0	0
## 11	1	1	1	1	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	1	1	1	1	1	1	2	2
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	-1	-1	-1	-1	-1	-1	-1	-1
## 17	-1	-1	-1	-1	-1	-1	-1	-1
## 18	0	0	0	0	1	1	1	1
## 19	0	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-1	-1	-1	-1
## 21	-1	-1	-1	-1	-1	-1	-1	-1
## 22	1	1	1	1	1	2	1	1
## 23	0	0	0	0	0	0	0	0

## 24	0	0	0	0	0	0	1	1
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	0	0	0	0	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0	0
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	1	1	1	1	1	1	1	1
## 40	1	1	1	1	1	1	1	1
## 41	1	1	1	1	1	1	1	1
## 42	0	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1	1
## 44	0	0	0	0	0	0	0	0
## 45	-1	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	-1	-1	-1	-1	-1	-1	-1	-1
## 53	0	0	0	0	0	-1	-1	-1
## 54	-1	-1	-1	-1	-1	-1	-1	-1
## 55	-1	-1	-1	-1	-1	-1	-1	0

## 56	-1	-1	-1	-1	-1	-1	1	1
## 57	1	1	1	1	1	1	1	1
## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0
## 60	0	0	0	0	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	-1	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	1	1	1	1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	-1	-1
## 71	-1	-1	-1	-1	-1	-1	-1	-1
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	-1	-1	-1	-1	-1	-1	-1	-1
## 75	0	0	0	0	0	0	0	0
## 76	0	0	0	0	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	1	1	1
## 79	0	0	0	0	0	0	0	0
## 80	0	0	0	0	1	1	1	1
## 81	0	0	0	0	0	0	0	0
## 82	-1	-1	-1	-1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0	0
## 85	0	0	0	0	0	0	0	0
## 86	0	0	0	0	1	1	1	1
## 87	0	0	0	0	0	0	0	0

## 88	0	0	0	0	0	0	0	0
## 89	-1	-1	-1	-1	-1	-1	-1	-1
## 90	1	1	1	1	1	1	1	1
## 91	-1	-1	-1	-1	-1	-1	-1	-1
## 92	-1	-1	-1	-1	0	0	0	0
## 93	-1	-1	-1	-1	0	0	0	0
## 94	0	0	0	0	0	0	0	0
## 95	-1	-1	-1	-1	-1	-1	-1	-1
## 96	0	0	0	0	0	0	0	0
## 97	0	0	0	0	0	2	1	1
## 98	0	0	0	0	0	0	0	0
## 99	0	0	0	0	0	0	0	0
## 100	0	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	0	0	0	0	0	0	0	0
## 109	-2	-2	-2	-2	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1	-1
## 111	1	1	1	1	0	0	0	0
## 112	-1	-1	-1	-1	0	0	0	0
## 113	-1	-1	-1	-1	-1	-1	-1	-1
## 114	0	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0	0
##	cn_KIAA0754	cn_KCNQ4	cn_CITED4	cn_EDN2	cn_CLDN19	cn_CDC20	cn_ARTN	cn_HPDL
## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0

## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	1
## 9	1	1	1	1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	1	1	1	1	1	1	1	1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	-1	-1	-1	-1	-1	-1	-1	-1
## 17	-1	-1	-1	-1	-1	-1	-1	-1
## 18	1	1	1	1	1	1	1	1
## 19	0	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-1	-1	-1	-1
## 21	1	1	1	1	1	-1	-1	-1
## 22	1	1	1	1	1	1	1	1
## 23	0	0	0	0	0	0	0	0
## 24	1	1	1	2	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	-1	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0	0
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0

## 35	-1	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	1	1	1	1	1	1	1	1
## 40	1	1	1	1	1	1	1	1
## 41	1	1	1	1	1	1	1	1
## 42	0	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1	1
## 44	0	0	0	0	0	0	0	0
## 45	-1	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	1	1	1	1	0	0	0	0
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	1	-1	-1	-1	-1	1	1	1
## 52	-1	-1	-1	-1	-1	-1	-1	-1
## 53	-1	-1	-1	-1	-1	-1	-1	-1
## 54	-1	-1	-1	-1	-1	-1	-1	-1
## 55	1	1	1	1	1	1	1	0
## 56	1	1	1	1	1	1	1	1
## 57	1	1	1	1	1	1	1	1
## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	1	2	2	2	0
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	-1	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	0	0
## 66	0	0	0	0	0	0	0	0

## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	-1	1
## 71	-1	-1	-1	-1	-1	-1	-1	-1
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	-1	-1	-1	-1	-1	-1	-1	0
## 75	0	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0	0
## 80	1	1	1	1	1	1	1	1
## 81	0	0	0	0	0	0	0	0
## 82	1	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0	0
## 85	0	0	0	0	0	0	0	0
## 86	1	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	0	0
## 89	-1	-1	-1	-1	-1	-1	-1	-1
## 90	1	1	1	1	1	1	1	1
## 91	-1	-1	-1	-1	-1	-1	-1	-1
## 92	0	0	0	0	0	0	0	0
## 93	0	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0
## 95	-1	-1	-1	-1	-1	-1	-1	-1
## 96	0	0	0	0	0	0	0	0
## 97	1	1	1	1	1	1	1	1
## 98	0	0	0	0	0	0	0	0

## 99	0	0	0	0	0	0	0	0
## 100	0	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	0	0	0	0	0	0	0	0
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1	-1
## 111	0	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0	0
## 113	-1	-1	-1	-1	-1	-1	-1	-1
## 114	0	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0	0

##	cn_TSPAN1	cn_CYP4B1	cn_CYP4Z2P	cn_CYP4X1	cn_CYP4Z1	cn_PDZK1IP1	cn_RAB3B
## 1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0
## 5	1	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	1
## 9	-1	-1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	-1
## 12	0	0	0	0	0	0	0
## 13	1	1	1	1	1	1	1

## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	-1	-1	-1	-1	-1	-1	-1
## 17	-1	-1	-1	-1	-1	-1	-1
## 18	1	1	1	1	1	1	1
## 19	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-1	-1	-1
## 21	-1	-1	-1	-1	-1	-1	1
## 22	1	1	1	1	1	1	1
## 23	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1
## 28	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0
## 32	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1
## 39	1	1	1	1	1	1	1
## 40	1	1	1	1	1	1	1
## 41	1	1	1	1	1	1	0
## 42	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1
## 44	0	0	0	0	0	0	0
## 45	-1	-1	-1	-1	-1	-1	-1

## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	0	0	0	0	0	0	0
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1
## 52	-1	-1	-1	-1	-1	-1	-1
## 53	-1	-1	-1	-1	-1	-1	-1
## 54	-1	-1	-1	-1	-1	-1	1
## 55	0	1	1	1	1	1	1
## 56	1	1	1	1	1	1	1
## 57	1	1	1	1	1	1	1
## 58	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1
## 63	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0
## 65	0	0	0	0	0	0	0
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	1	1	1	1	1	1	1
## 71	-1	-1	-1	-1	-1	-1	-1
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0
## 75	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0

## 78	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0
## 80	2	1	1	1	1	1	1
## 81	0	0	0	0	0	0	0
## 82	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0
## 85	0	0	0	0	0	0	0
## 86	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	0
## 89	-1	-1	-1	-1	-1	-1	-1
## 90	1	1	1	1	1	1	1
## 91	-1	-1	-1	-1	-1	-1	-1
## 92	0	0	0	0	0	0	0
## 93	-1	-1	-1	-1	-1	-1	-1
## 94	0	0	0	0	0	0	0
## 95	-1	-1	-1	-1	-1	-1	-1
## 96	0	0	0	0	0	0	0
## 97	1	1	1	1	1	1	1
## 98	0	0	0	0	0	0	0
## 99	0	0	0	0	0	0	0
## 100	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0
## 108	0	0	0	0	0	0	0
## 109	0	0	0	0	0	0	0

## 110	-1	-1	-1	-1	-1	-1	-1
## 111	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0
## 113	-1	-1	-1	-1	-1	-1	-1
## 114	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0

##	cn_DI01	cn_TTC22	cn_PCSK9	cn_PRKAA2	cn_C1orf168	cn_KANK4	cn_FOXD3
----	---------	----------	----------	-----------	-------------	----------	----------

## 1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0
## 8	1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	-1	-1	2	2
## 10	0	0	0	0	0	0	0
## 11	-1	-1	-1	-1	-1	-1	-1
## 12	0	0	0	0	0	0	0
## 13	1	1	1	1	1	1	1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	-1	-1	-1	-1	-1	-1	-1
## 17	-1	-1	-1	-1	-1	-1	-1
## 18	1	1	1	1	1	1	1
## 19	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-1	-1	-1
## 21	1	1	1	1	1	1	1
## 22	1	2	2	2	2	1	1
## 23	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	1

## 25	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1
## 28	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0
## 32	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1
## 39	1	1	1	1	1	1	1
## 40	0	0	0	0	0	0	0
## 41	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1
## 44	0	0	0	0	0	0	0
## 45	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	0	0	0	0	0	0	0
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	1	1	-1	-1	-1	1	1
## 52	-1	-1	-1	-1	-1	1	1
## 53	-1	-1	-1	-1	-1	-1	-1
## 54	-1	-1	-1	-1	-1	-1	-1
## 55	2	2	2	2	2	1	1
## 56	1	1	1	1	1	1	1

## 57	1	1	1	1	1	1	1
## 58	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1
## 63	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0
## 65	0	0	0	0	0	0	0
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	1	1	1	1	1	1	1
## 71	-1	-1	-1	-1	-1	-1	-1
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0
## 75	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0
## 80	1	1	1	1	1	1	1
## 81	0	0	0	0	0	0	0
## 82	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0
## 85	0	0	0	0	0	0	0
## 86	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	0

## 89	-1	-1	-1	-1	-1	-1	-1
## 90	1	1	1	1	1	1	1
## 91	-1	-1	-1	-1	-1	-1	-1
## 92	0	0	0	0	0	-1	-1
## 93	0	-1	-1	1	1	-1	-1
## 94	0	0	0	0	0	0	0
## 95	-1	-1	-1	-1	-1	-1	-1
## 96	0	0	0	0	0	0	-1
## 97	2	2	2	1	1	1	1
## 98	0	0	0	0	0	0	0
## 99	0	0	0	0	0	0	0
## 100	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0
## 108	0	0	0	0	0	0	0
## 109	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1
## 111	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0
## 113	-1	-1	-1	-1	-1	-1	-1
## 114	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0
##	cn_IL12RB2	cn_DIRAS3	cn_C1orf173	cn_SLC44A5	cn_ST6GALNAC5	cn_AK5	cn_PTGFR
## 1	1	1	-1	-1	-1	-1	-1
## 2	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0

## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	2	2	1	2	2	2	2
## 10	0	0	0	0	0	0	0
## 11	-1	-1	-1	-1	-1	-1	-1
## 12	0	0	0	0	0	0	0
## 13	1	1	1	1	1	1	1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	-1	-1	-1	-1	-1	-1	-1
## 17	-1	-1	-1	-1	-1	-1	-1
## 18	1	1	1	1	1	1	1
## 19	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-1	-1	-1
## 21	1	1	1	1	-1	-1	-1
## 22	1	1	1	1	1	1	1
## 23	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1
## 28	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0
## 32	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	-1	-1

## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1
## 39	1	1	1	1	1	1	1
## 40	0	0	0	0	0	0	0
## 41	0	0	-1	-1	-1	-1	-1
## 42	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1
## 44	0	0	0	0	0	0	0
## 45	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	0	0	0	0	0	0	0
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	1
## 53	-1	-1	-1	-1	-1	-1	-1
## 54	-1	-1	-1	-1	-1	-1	-1
## 55	1	1	1	1	1	1	1
## 56	1	1	-1	-1	-1	-1	-1
## 57	1	1	1	1	1	1	1
## 58	0	0	0	0	0	0	0
## 59	0	0	2	2	2	2	2
## 60	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1
## 63	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0
## 65	0	0	0	0	0	0	0
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0

## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	1	1	1	1	1	1	1
## 71	-1	-1	-1	-1	-1	-1	-1
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0
## 75	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	2
## 79	0	0	0	0	0	0	0
## 80	1	1	1	1	1	1	1
## 81	-1	-1	-1	-1	-1	-1	-1
## 82	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0
## 85	0	0	0	0	0	0	0
## 86	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	0
## 89	-1	-1	-1	-1	-1	-1	-1
## 90	1	1	1	1	1	1	1
## 91	-1	-1	-1	-1	-1	-1	-1
## 92	-1	-1	0	0	0	0	0
## 93	-1	-1	-1	-1	-1	-1	-1
## 94	0	0	0	0	0	0	0
## 95	-1	-1	-1	-1	-1	-1	-1
## 96	-1	-1	-1	-1	-1	-1	-1
## 97	1	1	1	1	1	1	1
## 98	0	0	0	0	0	0	0
## 99	0	0	0	0	0	0	0

## 100	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0
## 108	0	0	0	0	0	0	0
## 109	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1
## 111	0	0	-1	-1	-1	-1	-1
## 112	0	0	0	0	0	0	0
## 113	-1	-1	-1	-1	-1	-1	-1
## 114	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0

##	cn_DNASE2B	cn_LPAR3	cn_CLCA2	cn_CLCA4	cn_GBP5	cn_TGFBR3	cn_BRDT	cn_EPHX4
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## 1	-1	-1	-1	-1	-1	-1	-1	-1
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	-1	1	1	1	1	1	1	1
## 9	2	2	1	1	1	1	1	1
## 10	0	0	0	0	0	0	0	0
## 11	-1	-1	-1	-1	-1	-1	-1	-1
## 12	0	0	0	0	0	0	0	0
## 13	1	1	1	1	1	1	1	1
## 14	0	0	0	0	0	0	0	0

## 15	0	0	0	0	0	0	0	0
## 16	-1	-1	-1	-1	-1	-1	-1	-1
## 17	-1	-1	-1	-1	-1	-1	-1	-1
## 18	1	1	1	1	1	1	1	1
## 19	0	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-1	-1	-1	-1
## 21	-1	-1	-1	-1	-1	-1	-1	-1
## 22	1	1	1	1	1	1	1	1
## 23	0	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	-1	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0	0
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	1	1	1	1	1	1	1	1
## 40	0	0	0	0	0	0	0	0
## 41	-1	-1	-1	-1	-1	-1	-1	-1
## 42	0	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1	1
## 44	0	0	0	0	0	0	0	0
## 45	-1	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0	0

## 47	0	0	0	0	0	0	0	0
## 48	0	0	0	0	0	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	1	1	-1	1	1	1
## 52	0	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	-1	-1
## 54	-1	-1	-1	-1	-1	-1	-1	-1
## 55	1	1	1	1	1	1	1	1
## 56	-1	-1	-1	-1	-1	-1	-1	-1
## 57	1	1	1	1	1	1	1	1
## 58	0	0	0	0	0	0	0	0
## 59	2	2	2	2	2	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	-1	1	1	1
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	-1	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0	0
## 65	0	0	0	0	0	0	0	0
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	1	1	1	1	0	0	0	0
## 71	-1	-1	-1	-1	-1	-1	-1	-1
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0	0
## 75	0	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	2	2	2	2	2	2	2	2

## 79	0	0	0	0	0	0	0	0
## 80	1	1	1	1	1	1	1	1
## 81	-1	-1	-1	-1	-1	-1	-1	-1
## 82	1	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0	0
## 85	0	0	0	0	0	0	0	0
## 86	1	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	0	0
## 89	-1	-1	-1	-1	-1	-1	-1	-1
## 90	1	1	1	1	1	1	1	1
## 91	-1	-1	-1	-1	0	0	0	0
## 92	0	0	0	0	0	0	0	0
## 93	-1	-1	-1	-1	0	1	1	1
## 94	0	0	0	0	0	0	0	0
## 95	-1	-1	-1	-1	-1	-1	-1	-1
## 96	-1	-1	-1	-1	-1	-1	-1	-1
## 97	1	1	1	1	1	1	1	1
## 98	0	0	0	0	0	0	0	0
## 99	0	0	0	0	0	0	0	0
## 100	0	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1	-1

##	111	-1	-1	-1	-1	-1	-1	-1	
##	112	0	0	0	0	0	0	0	
##	113	-1	-1	-1	-1	-1	-1	-1	
##	114	0	0	0	0	0	0	0	
##	115	-1	-1	-1	-1	-1	-1	-1	
##	116	0	0	0	0	0	0	0	
##		cn_ABCA4	cn_COL11A1	cn_AMY1A	cn_NTNG1	cn_NBPFF4	cn_NBPFF6	cn_GSTM1	cn_GSTM2
##	1	-1	-1	-1	-1	-1	-1	-1	
##	2	0	0	0	0	0	0	0	
##	3	0	0	0	0	0	0	0	
##	4	0	0	0	0	0	0	0	
##	5	0	0	0	0	0	0	0	
##	6	0	0	0	1	1	1	1	
##	7	0	0	0	0	0	0	0	
##	8	1	1	1	-1	-1	-1	-1	
##	9	2	1	0	2	2	2	2	
##	10	0	0	0	0	0	0	0	
##	11	-1	-1	-1	-1	1	1	1	
##	12	0	0	0	0	0	0	0	
##	13	1	1	1	1	1	1	1	
##	14	0	0	0	0	0	0	0	
##	15	0	0	0	0	0	0	0	
##	16	-1	-1	-1	-1	-1	-1	-1	
##	17	-1	-1	-1	-1	-1	-1	-1	
##	18	1	1	1	1	1	1	1	
##	19	0	0	0	0	0	0	0	
##	20	-1	-1	-1	0	0	0	0	
##	21	-1	-1	-1	-1	-1	-1	-1	
##	22	1	1	1	1	1	1	1	
##	23	0	0	0	-1	0	0	0	
##	24	2	1	1	1	1	1	1	
##	25	0	0	0	0	0	0	0	

## 26	-1	-1	-1	-1	1	1	1	1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	-1	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0	0
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	1	1	1	1	1	1	1	1
## 40	0	0	0	-2	0	0	0	0
## 41	-1	-1	-1	0	0	0	0	0
## 42	0	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1	1
## 44	0	0	0	0	0	0	0	0
## 45	-1	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	0	-1	-1	-1	1	1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	-1	-1
## 54	-1	-1	-1	-1	-1	-1	1	1
## 55	1	1	1	1	1	1	1	1
## 56	-1	-1	-1	-1	-1	-1	-1	-1
## 57	1	1	1	1	1	1	1	1

## 58	-2	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0
## 60	-1	0	0	-1	0	0	0	0
## 61	1	1	1	1	1	1	1	1
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	2	2	2	2	2	2	2	2
## 64	0	0	0	0	0	0	0	0
## 65	0	0	0	0	0	0	0	0
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0	0
## 71	-1	-1	-1	-1	-1	-1	-1	-1
## 72	0	0	0	1	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0	0
## 75	0	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	2	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0	0
## 80	1	1	1	1	1	1	1	1
## 81	-1	-1	-1	-1	-1	-1	-1	-1
## 82	1	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	1	1
## 85	0	0	0	0	0	0	0	0
## 86	1	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	0	0
## 89	-1	-1	-1	-1	-1	-1	-1	-1

## 90	1	1	1	1	1	1	1	1
## 91	0	-1	-1	-1	-1	-1	-1	-1
## 92	0	0	0	0	0	0	0	0
## 93	1	1	1	1	1	1	1	1
## 94	0	0	0	0	0	0	0	0
## 95	-1	-1	-1	-1	-1	-1	-1	-1
## 96	-1	-1	-1	-1	-1	-1	-1	-1
## 97	1	1	1	1	1	1	1	1
## 98	0	0	0	0	0	0	0	0
## 99	0	0	0	0	0	0	0	0
## 100	0	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0	0
## 103	0	-1	-1	-1	-1	-1	-1	-1
## 104	-1	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	-1	-1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1	-1
## 111	-1	-1	-1	-1	-1	-1	-1	-1
## 112	0	0	0	0	0	0	0	0
## 113	-1	-1	-1	-1	-1	-1	-1	-1
## 114	0	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0	0

##	cn_GSTM5	cn_GSTM3	cn_SLC6A17	cn_CHI3L2	cn_KCND3	cn_FAM19A3	cn_AMPD1
## 1	-1	-1	-1	-1	-1	-1	-1
## 2	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0

## 5	0	0	0	0	0	0	0
## 6	1	1	1	1	1	1	1
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	1
## 9	2	2	2	0	0	1	0
## 10	0	0	0	0	0	0	0
## 11	1	1	1	1	1	1	1
## 12	0	0	0	0	0	0	0
## 13	1	1	1	1	1	1	1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	-1	-1	-1	-1	-1	-1	-1
## 17	-1	-1	-1	-1	-1	1	1
## 18	1	1	1	1	1	1	1
## 19	0	0	0	0	0	0	0
## 20	0	0	0	0	0	0	-1
## 21	-1	-1	-1	-1	-1	-1	-1
## 22	1	1	1	1	1	1	1
## 23	0	0	0	0	0	0	0
## 24	1	1	1	0	0	1	0
## 25	0	0	0	0	0	0	0
## 26	1	1	1	1	-1	1	1
## 27	-1	-1	-1	-1	-1	-1	-1
## 28	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0
## 32	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0

## 37	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1
## 39	1	1	1	1	1	1	1
## 40	0	0	0	0	0	0	0
## 41	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1
## 44	0	0	0	0	0	0	0
## 45	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	1	1	1
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	-1	-1	-1	1	1	1	-1
## 52	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	-1
## 54	1	1	1	-1	-1	-1	-1
## 55	1	1	1	1	1	1	1
## 56	-1	-1	-1	-1	-1	-1	-1
## 57	1	1	1	1	1	1	1
## 58	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	1
## 60	0	0	0	0	0	0	0
## 61	1	1	1	1	1	1	1
## 62	-1	-1	-1	-1	-1	-1	-1
## 63	2	2	2	2	2	2	2
## 64	0	0	0	0	0	0	0
## 65	0	0	0	0	0	0	0
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0

## 69	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0
## 71	-1	-1	-1	-1	-1	-1	-1
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	2
## 74	0	0	0	0	0	0	0
## 75	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0
## 80	1	1	1	1	1	1	1
## 81	-1	-1	-1	-1	-1	-1	-1
## 82	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	1	1	1	1	1	1	1
## 85	0	0	0	0	0	0	0
## 86	1	1	1	1	1	1	0
## 87	0	0	0	0	0	0	0
## 88	0	0	0	0	1	1	1
## 89	-1	-1	-1	-1	-1	-1	-1
## 90	1	1	1	1	1	1	1
## 91	-1	-1	-1	-1	-1	-1	-1
## 92	0	0	0	0	0	0	0
## 93	1	1	1	1	1	1	1
## 94	0	0	0	0	0	0	0
## 95	-1	-1	-1	-1	-1	-1	-1
## 96	-1	-1	-1	-1	-1	-1	-1
## 97	1	1	1	1	1	1	1
## 98	0	0	0	0	0	0	0
## 99	0	0	0	0	0	0	0
## 100	0	0	0	0	0	0	0

## 101	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0
## 103	-1	-1	-1	-1	-1	-1	-1
## 104	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1
## 111	-1	-1	-1	-1	-1	-1	-1
## 112	0	0	0	0	0	0	0
## 113	-1	-1	-1	-1	-1	-1	-1
## 114	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0

##	cn_CASQ2	cn_VTCN1	cn_SPAG17	cn_HSD3B2	cn_HMGCS2	cn_FM05	cn_PDZK1P1	cn_PDZK1
## 1	-1	1	-1	-1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	1	1	1	1	1	1	1	1
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	1	1	2	2	2
## 9	1	2	2	2	2	2	2	2
## 10	0	0	0	0	0	0	0	0
## 11	1	1	1	1	1	1	1	1
## 12	0	0	0	0	0	0	0	0
## 13	1	1	1	1	1	2	2	2
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	1	1	1

## 16	-1	-1	-1	-1	-1	1	1	1
## 17	1	1	1	1	1	1	1	1
## 18	1	1	1	1	1	1	1	1
## 19	0	0	0	0	0	1	1	1
## 20	-1	-1	-1	-1	-1	0	0	0
## 21	-1	-1	-1	1	1	1	1	1
## 22	1	1	1	1	1	1	1	1
## 23	0	0	0	0	0	0	0	0
## 24	0	0	1	1	0	1	1	1
## 25	0	0	0	0	0	1	1	1
## 26	1	1	1	1	1	1	1	1
## 27	-1	-1	-1	-1	-1	1	1	1
## 28	-1	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0	0
## 32	0	0	0	0	0	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	1	1	1
## 36	0	2	2	2	2	1	1	1
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	1	1	1
## 39	1	1	1	1	1	1	1	1
## 40	0	0	0	0	0	1	1	1
## 41	0	0	0	0	0	1	1	1
## 42	0	0	0	0	0	0	0	0
## 43	1	1	1	1	1	2	2	2
## 44	0	0	0	0	0	1	1	1
## 45	-1	-1	-1	-1	-1	1	1	1
## 46	0	0	0	0	0	1	1	1
## 47	0	0	0	0	0	1	1	1

## 48	1	1	1	1	1	1	1	1
## 49	0	0	0	0	0	1	1	1
## 50	0	0	0	0	0	1	1	1
## 51	-1	-1	1	1	1	1	1	1
## 52	0	0	0	0	0	0	0	0
## 53	-1	-1	-1	1	1	1	1	1
## 54	1	1	1	1	1	1	1	1
## 55	1	1	1	1	1	1	1	1
## 56	-1	-1	-1	1	1	1	1	1
## 57	1	1	1	1	1	1	1	1
## 58	0	0	0	0	0	0	0	0
## 59	1	1	1	2	2	1	1	1
## 60	-1	-1	-1	-1	-1	1	1	1
## 61	1	1	1	1	1	1	1	1
## 62	-1	-1	-1	-1	-1	2	2	2
## 63	2	1	1	1	1	1	1	1
## 64	0	0	0	0	0	1	1	1
## 65	0	0	0	0	0	0	0	0
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0	0
## 71	-1	-1	-1	0	0	1	1	1
## 72	0	0	0	0	0	0	0	0
## 73	2	2	2	2	2	2	2	2
## 74	0	0	0	0	0	1	1	1
## 75	0	0	0	0	0	2	2	2
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	1	1	1	1	1	2	2	2
## 79	0	0	0	0	0	1	1	1

## 80	1	1	1	1	1	2	2	2
## 81	-1	-1	-1	-1	-1	1	1	1
## 82	1	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	1	1	1
## 84	1	1	1	1	1	1	1	1
## 85	0	0	0	0	0	2	2	2
## 86	0	0	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	1	1	1	1	1	1	1	1
## 89	-1	-1	-1	-1	-1	1	1	1
## 90	1	1	1	1	1	1	1	1
## 91	-1	-1	-1	-1	0	0	0	0
## 92	0	0	0	0	0	1	1	1
## 93	1	1	1	1	1	1	1	1
## 94	0	0	0	0	0	1	1	1
## 95	-1	-1	-1	-1	-1	2	2	2
## 96	-1	-1	-1	-1	-1	2	2	2
## 97	1	1	1	1	1	2	2	2
## 98	0	0	0	0	0	0	0	0
## 99	0	0	0	0	0	1	1	1
## 100	0	0	0	0	0	1	1	1
## 101	-1	-1	0	0	0	0	0	0
## 102	0	0	0	0	0	0	0	0
## 103	-1	-1	-1	-1	-1	-1	-1	-1
## 104	-1	-1	-1	-1	-1	1	1	1
## 105	0	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	1	1	1
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1	-1
## 111	-1	-1	-1	0	0	0	0	0

## 112	0	0	0	0	0	0	0	0
## 113	-1	-1	-1	-1	-1	1	1	1
## 114	0	0	0	0	0	1	1	1
## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	1	1	1

##	cn_ZNF695	cn_TRIM58	cn_CHL1	cn_CNTN4	cn_LRRN1	cn_EGOT	cn_ROBO2	cn_CADM2
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## 1	2	2	0	0	0	0	0	0
## 2	1	1	0	0	0	0	0	0
## 3	1	1	0	0	0	0	0	0
## 4	1	1	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	1	1	1	1	1	1	-1	1
## 7	1	1	0	0	0	0	0	0
## 8	2	2	2	2	2	2	-1	-1
## 9	1	2	-1	-1	1	1	-1	-1
## 10	0	0	0	0	0	0	0	0
## 11	2	2	0	0	0	0	0	0
## 12	0	0	-1	-1	-1	-1	-1	-1
## 13	0	0	1	1	1	1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	1	1	0	0	0	0	0	0
## 16	1	1	1	1	1	1	1	1
## 17	1	1	1	1	1	1	-1	-1
## 18	1	1	0	0	0	0	0	0
## 19	1	1	1	1	1	1	1	1
## 20	1	1	-1	-1	-1	-2	-1	2
## 21	1	1	-1	-1	1	1	-1	1
## 22	2	2	-1	-1	-1	-1	-1	-1
## 23	0	0	0	0	0	0	-1	-1
## 24	1	1	0	0	0	0	0	0
## 25	1	1	0	0	0	0	0	0
## 26	1	1	-1	-1	-1	-1	-1	-1

## 27	1	1	-1	-1	-1	-1	-1	-1
## 28	1	1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0	0
## 32	1	1	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	0	0	0	0	0	0
## 36	1	1	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	1	1	1	1	1	1	1	1
## 39	1	1	0	0	0	0	0	0
## 40	1	1	-1	-1	-1	-1	1	-1
## 41	1	1	0	0	0	0	0	0
## 42	1	1	0	0	0	0	1	1
## 43	0	0	0	0	0	0	0	0
## 44	1	1	-1	-1	-1	-1	-1	-1
## 45	1	1	0	0	0	0	0	0
## 46	1	1	0	0	0	0	0	0
## 47	1	1	0	0	0	0	0	0
## 48	1	1	1	1	1	1	1	1
## 49	1	1	0	0	0	0	0	0
## 50	1	1	0	0	0	0	0	0
## 51	1	1	-1	-1	-1	-1	-1	-1
## 52	-1	-1	0	0	0	0	0	0
## 53	0	0	0	0	0	1	0	0
## 54	1	1	0	0	0	0	0	0
## 55	1	1	0	0	0	0	0	0
## 56	1	1	0	0	0	0	0	0
## 57	1	1	0	0	0	0	0	0
## 58	1	1	0	0	0	0	0	0

## 59	1	1	0	0	0	0	0	0
## 60	1	1	1	1	1	1	-1	-1
## 61	0	0	0	0	0	0	0	0
## 62	-1	-1	1	1	1	1	0	0
## 63	-1	-1	0	0	0	0	0	0
## 64	1	1	1	1	1	1	-2	1
## 65	1	1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	1	1	0	0	0	0	0	0
## 70	2	2	1	1	1	1	0	0
## 71	1	1	0	0	0	0	0	0
## 72	1	1	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	2	2	-2	-2	-1	-1	-1	-1
## 76	1	1	-1	-1	1	1	-1	1
## 77	0	0	0	0	0	0	0	0
## 78	2	2	1	1	1	1	-1	1
## 79	1	1	1	1	1	1	1	1
## 80	2	2	-1	-1	-1	1	-1	-1
## 81	1	1	0	0	0	0	0	0
## 82	1	1	1	1	1	1	1	1
## 83	1	1	0	0	0	0	0	0
## 84	1	1	0	0	0	0	-2	-2
## 85	1	1	-1	-1	-1	-1	1	1
## 86	1	1	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0	0
## 88	0	0	1	1	1	1	1	1
## 89	1	1	0	0	0	0	0	0
## 90	1	1	-1	-1	-1	-1	1	1

## 91	1	1	1	1	1	1	1	1
## 92	0	0	0	0	0	0	0	0
## 93	1	1	1	1	1	1	1	1
## 94	1	1	0	0	0	0	-1	-1
## 95	2	2	-1	-1	-1	-1	-1	-1
## 96	1	1	0	0	0	0	0	0
## 97	1	1	0	0	0	0	0	0
## 98	0	0	0	0	0	0	0	0
## 99	1	1	0	0	0	0	0	0
## 100	1	1	0	0	0	0	0	0
## 101	1	1	0	0	0	0	0	0
## 102	0	0	0	0	0	0	0	0
## 103	1	1	0	0	0	0	0	0
## 104	1	1	0	0	0	0	0	0
## 105	1	1	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0	0
## 107	1	1	0	0	0	0	0	0
## 108	2	2	0	0	0	0	0	0
## 109	0	0	0	0	0	0	0	0
## 110	1	1	1	1	1	1	1	1
## 111	1	1	1	1	1	1	1	1
## 112	0	0	-1	-1	-1	-1	-1	-1
## 113	1	1	1	1	1	1	-1	-1
## 114	1	1	0	0	0	0	0	0
## 115	1	1	1	1	1	1	0	0
## 116	1	1	0	0	0	0	0	0

##	70	-1	-1	-1	-1	-1	-1	-1	-1
##	71	-1	-1	-1	-1	-1	-1	-1	-1
##	72	0	0	0	0	0	0	0	0
##	73	0	0	0	0	0	0	0	0
##	74	0	0	0	0	0	0	0	0
##	75	0	0	0	0	0	0	0	0
##	76	-1	-1	-1	-1	-1	-1	-1	-1
##	77	0	0	0	0	0	0	0	0
##	78	-1	-1	-1	-1	-1	-1	-1	-1
##	79	0	0	0	0	0	0	0	0
##	80	-1	-1	-1	-1	-1	-1	-1	-1
##	81	0	0	0	0	0	0	0	0
##	82	-1	-1	-1	-1	-1	-1	-1	-1
##	83	0	0	0	0	0	0	0	0
##	84	0	0	0	0	0	0	0	0
##	85	-1	-1	-1	-1	-1	-1	-1	-1
##	86	1	1	1	1	1	1	1	1
##	87	0	0	0	0	0	0	0	0
##	88	2	2	2	2	2	2	2	2
##	89	-1	-1	-1	-1	-1	-1	-1	-1
##	90	1	2	2	2	2	2	2	1
##	91	1	1	1	1	1	1	1	1
##	92	0	0	0	0	0	0	0	0
##	93	1	1	1	1	1	1	1	1
##	94	2	2	2	2	2	2	2	2
##	95	0	0	0	0	0	0	0	0
##	96	0	0	0	0	0	0	0	0
##	97	0	0	0	0	0	0	0	0
##	98	0	0	0	0	0	0	0	0
##	99	1	1	1	1	1	1	1	1
##	100	0	0	0	0	0	0	0	0
##	101	-1	-1	-1	-1	-1	-1	-1	-1

## 17	1	1	1	1	1	1	1	1
## 18	1	1	1	1	1	1	1	1
## 19	-1	-1	-1	-1	-1	-1	-1	-1
## 20	-1	-1	-1	-1	-1	-1	-1	-1
## 21	0	0	0	0	0	0	0	0
## 22	0	0	0	0	0	0	1	0
## 23	0	0	0	0	0	0	0	0
## 24	0	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0	0
## 27	0	0	0	0	0	0	0	0
## 28	2	2	2	2	2	2	2	2
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0	0
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	0	0	0	0	0	0	0	0
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0	0
## 42	1	2	2	2	2	2	2	2
## 43	0	0	0	0	0	0	0	0
## 44	1	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	-1	-1	-1	-1

## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0	0
## 53	0	0	0	0	0	0	0	0
## 54	0	1	1	1	1	1	1	0
## 55	0	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1	-1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0
## 60	1	1	1	1	1	1	1	1
## 61	0	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1	1
## 63	0	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	-1	-1
## 71	-1	-1	-1	-1	-1	-1	-1	-1
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0	0
## 75	0	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1	-1
## 79	0	0	0	0	0	0	0	0
## 80	-1	-1	-1	-1	-1	-1	-1	-1

## 81	0	0	0	0	0	0	0	0
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	1	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	2	2	2	2	2	2	2	1
## 89	-1	-1	-1	-1	-1	-1	-1	-1
## 90	1	2	2	2	2	2	2	-1
## 91	1	1	1	1	1	1	1	1
## 92	0	0	0	0	0	0	0	0
## 93	1	1	1	1	1	1	1	1
## 94	2	2	2	2	2	2	2	2
## 95	0	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0	0
## 98	0	0	0	0	0	0	0	0
## 99	1	1	1	1	1	1	1	1
## 100	0	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	0	0	0	0	0	0	0	0
## 111	0	0	0	0	0	0	0	-1
## 112	0	0	0	0	0	0	0	0

## 113	0	2	2	2	2	2	2	-1
## 114	1	1	1	1	1	1	1	1
## 115	0	0	0	0	0	0	0	0
## 116	0	0	0	0	0	0	0	0

##	cn_LRRC14B	cn_PLEKHG4B	cn_IRX4	cn_C5orf38	cn_IRX2	cn_IRX1	cn_ADAMTS16
----	------------	-------------	---------	------------	---------	---------	-------------

## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0
## 8	2	2	1	1	1	1	1
## 9	0	0	0	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0
## 12	-1	-1	-1	-1	-1	-1	-1
## 13	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0
## 17	0	0	0	0	0	0	0
## 18	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0
## 20	0	0	0	0	0	0	0
## 21	1	1	1	1	1	1	1
## 22	2	2	2	2	2	2	2
## 23	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0
## 27	1	1	1	1	1	1	1

## 28	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1
## 32	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0
## 34	2	2	2	2	2	2	2
## 35	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	1	1	1	1	1	1	-1
## 39	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0
## 42	1	1	-1	-1	-1	-1	-1
## 43	-2	-2	-2	-2	-2	-2	-2
## 44	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0
## 47	1	1	1	1	1	1	1
## 48	1	1	1	1	1	1	1
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	2	2	2	2	2	2	2
## 52	0	0	0	0	0	0	0
## 53	2	2	2	2	2	2	2
## 54	-1	-1	-1	-1	-1	-1	-1
## 55	0	0	0	0	0	0	0
## 56	0	0	0	0	0	0	0
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	1	1	1	1	1	1	1

## 60	1	1	1	1	1	1	1
## 61	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1
## 63	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	1	1	1	1	1	1	1
## 71	0	0	0	0	0	0	0
## 72	-1	-1	-1	-1	-1	-1	-1
## 73	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1
## 75	0	0	-2	0	0	0	0
## 76	1	1	1	1	1	1	1
## 77	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1
## 79	1	1	1	1	1	1	1
## 80	2	2	2	2	2	2	2
## 81	1	1	1	1	1	1	1
## 82	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0
## 85	1	1	1	1	1	1	1
## 86	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0
## 88	1	1	1	1	1	1	1
## 89	1	1	1	1	1	1	1
## 90	1	1	1	1	1	1	1
## 91	1	1	1	1	1	1	1

## 92	0	0	0	0	0	0	0	
## 93	1	1	1	1	1	1	1	
## 94	0	0	0	0	0	0	0	
## 95	0	0	0	0	0	0	0	
## 96	0	0	0	0	0	0	0	
## 97	1	1	1	1	1	1	1	
## 98	0	0	0	0	0	0	0	
## 99	1	1	1	1	1	1	1	
## 100	1	1	1	1	1	1	1	
## 101	-1	-1	-1	-1	-1	-1	-1	
## 102	0	0	0	0	0	0	0	
## 103	1	1	1	1	1	1	1	
## 104	-1	-1	-1	-1	-1	-1	-1	
## 105	0	0	0	0	0	0	0	
## 106	1	1	1	1	1	1	1	
## 107	0	0	0	0	0	0	0	
## 108	1	1	1	1	1	1	1	
## 109	0	0	0	0	0	0	0	
## 110	0	0	0	0	0	0	0	
## 111	0	0	0	0	0	0	0	
## 112	0	0	0	0	0	0	0	
## 113	1	1	1	1	1	1	1	
## 114	0	0	0	0	0	0	0	
## 115	1	1	1	1	1	1	1	
## 116	0	0	0	0	0	0	0	
##	cn_ADCY2	cn_ROPN1L	cn_CTND2	cn_DNAH5	cn_MARCH11	cn_NPR3	cn_IL7R	cn_CAPSL
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	2	2	2	2	2	-1	-1	-1

## 7	0	0	0	0	0	0	0	0
## 8	1	1	2	2	2	1	1	1
## 9	-1	-1	-1	0	-1	-1	0	0
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	-1	-1	-1	-1	-1	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	0	0	0	0	0	0	0	0
## 18	0	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0	0
## 20	0	0	0	0	0	0	0	0
## 21	1	1	1	1	1	1	1	1
## 22	2	2	2	2	2	2	2	2
## 23	0	0	0	0	0	0	0	0
## 24	1	1	1	1	1	0	0	0
## 25	0	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0	0
## 27	1	1	1	1	1	1	1	1
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	2	2	2	2	2	1	1	1
## 35	-1	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	2	2

## 39	1	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	-1	-1	-1
## 42	-1	-1	-1	-1	-1	-1	1	1
## 43	0	0	0	0	0	0	0	0
## 44	1	1	1	1	0	0	0	0
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	1	1	1	1	1	1	1	1
## 48	1	1	1	1	1	1	1	1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	2	2	2	2	1	1	1	1
## 52	0	0	0	0	0	0	0	0
## 53	2	2	2	2	1	1	1	1
## 54	-1	-1	-1	-1	-1	-1	-1	-1
## 55	0	0	0	0	0	0	0	0
## 56	0	0	0	0	0	-1	-1	-1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	1	1	1	1	-1	-1	-1	-1
## 60	1	1	1	1	1	1	1	1
## 61	0	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1	1
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	1	1	1	1	1	2	2	2

## 71	0	0	0	0	0	0	0	0
## 72	-1	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0	0
## 76	1	1	1	1	1	1	1	1
## 77	0	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	1	1
## 79	1	1	1	1	1	1	1	1
## 80	2	2	2	2	2	2	2	2
## 81	1	1	1	1	1	1	1	1
## 82	1	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	1	1	1	1	1	1	1	1
## 86	1	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	1	1	1	1	1	0	0	0
## 89	1	1	1	1	1	0	0	0
## 90	1	1	1	1	1	1	1	1
## 91	-2	-2	-2	-2	-2	-1	-2	-2
## 92	0	0	0	0	0	-1	-1	-1
## 93	1	1	1	1	1	0	0	0
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0	0
## 97	1	1	1	1	1	1	1	1
## 98	0	0	0	0	0	0	0	0
## 99	1	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1	1
## 101	-1	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0	0

## 18	0	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0	0
## 20	0	0	0	0	0	0	0	0
## 21	1	1	1	-1	-1	-1	-1	-1
## 22	2	2	2	-2	-2	-2	-2	-2
## 23	0	0	0	-1	-1	-1	-1	-1
## 24	0	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0	0
## 27	1	1	1	0	0	0	0	0
## 28	1	1	1	-1	-1	-1	-1	-1
## 29	0	0	1	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	1	1	1	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	2	2	0	0	0	0	0	0
## 39	1	1	1	1	1	1	0	0
## 40	-1	-1	-1	-2	-2	-2	-2	-2
## 41	-1	-1	0	0	0	0	0	-1
## 42	1	2	1	-1	-1	-1	-1	-1
## 43	0	0	0	0	0	0	0	0
## 44	0	0	0	0	0	0	0	0
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	1	1	1	1	1	1	1	1
## 48	1	1	1	1	1	1	1	1
## 49	0	0	0	0	0	0	0	0

## 50	0	0	0	0	0	0	0	0
## 51	1	1	2	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1	1
## 54	-1	-1	-1	-1	-1	-1	-1	-1
## 55	0	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1	-1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	-1	-1	-1	-1	-1	-1	-1	-1
## 60	1	1	1	0	0	0	0	0
## 61	0	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1	1
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	2	2	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0	0
## 76	1	1	1	1	1	1	1	1
## 77	0	0	0	0	0	0	0	0
## 78	1	1	1	-1	-1	-1	-1	-1
## 79	1	1	1	1	1	1	1	1
## 80	2	2	2	-1	-1	-1	-1	-1
## 81	1	1	1	-1	-1	-1	-1	-1

## 82	1	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	1	1	1	-1	-1	-1	-1	-1
## 86	1	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	0	0	0	-1	-1	-1	-1	-1
## 89	0	0	0	0	0	0	0	0
## 90	1	1	1	1	1	1	1	1
## 91	-2	-2	-1	1	1	1	-2	0
## 92	-1	-1	-1	-1	-1	-1	-1	0
## 93	0	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0	0
## 97	1	1	1	-1	-1	-1	-1	-1
## 98	0	0	0	0	0	0	0	0
## 99	1	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1	1
## 101	-1	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0	0
## 103	1	1	1	1	1	1	1	1
## 104	-1	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0	0
## 106	1	1	1	1	1	1	1	0
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	0	0	0	0	0	0	0	0
## 111	0	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0	0
## 113	1	1	1	0	0	0	0	0

## 114	0	0	0	-2	-2	-2	-2	-2
## 115	1	1	1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0	0
##	cn_GTF2H2B	cn_CARTPT	cn_FOXD1	cn_F2RL2	cn_PDE8B	cn_THBS4	cn_CKMT2	cn_HAPLN1
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1	-1
## 7	-1	-1	-1	-1	-1	-1	-1	-1
## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	-1	0	-1	-1	0	-1	0	-1
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	0	0	0	0	0	0	0	0
## 18	0	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0	0
## 20	0	0	0	0	0	0	0	0
## 21	-1	-1	-1	-1	-1	-1	-1	-1
## 22	-2	-2	-2	-2	-2	-2	-2	-2
## 23	-1	-1	-1	-1	-1	-1	-1	-1
## 24	1	1	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0	0
## 27	0	0	0	0	0	0	0	0
## 28	-1	-1	-1	-1	-1	-1	-1	-1

## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	0	0	0	1	1	0	0	1
## 39	1	0	1	0	0	0	0	0
## 40	-2	-2	-2	-2	-2	-2	-2	-2
## 41	-1	-1	-1	-1	-1	-1	-1	-1
## 42	-1	-1	-1	-1	-1	-1	-1	-1
## 43	0	0	0	0	0	0	0	0
## 44	0	0	0	0	0	0	0	0
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	1	1	1	1	1	1	1	1
## 48	1	1	1	1	1	1	1	1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1	1
## 54	-1	-1	-1	-1	-1	-1	-1	-1
## 55	0	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1	-1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	-1	-1	-1	-1	-1	-1	-1	-1
## 60	0	0	0	0	0	0	0	0

## 61	0	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	0	0	0	-1	-1	-1	-1	-1
## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0	0
## 76	1	1	1	1	1	1	1	1
## 77	0	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1	-1
## 79	1	1	1	1	1	1	1	1
## 80	-1	-1	-1	-1	-1	-1	-1	-1
## 81	-1	-1	-1	-1	-1	-1	-1	-1
## 82	1	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	-1	1	-1	-1	-1	-1	-1	-1
## 86	1	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	-1	-1	-1	-1	-1	-1	-1	-1
## 89	0	0	0	0	0	0	0	0
## 90	1	1	1	1	1	1	1	1
## 91	0	0	0	0	0	0	0	0
## 92	-1	-1	-1	-1	-1	-1	-1	-1

## 93	0	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0	0
## 97	-1	-1	-1	-1	-1	-1	-1	-1
## 98	0	0	0	0	0	0	0	0
## 99	1	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1	1
## 101	-1	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0	0
## 103	1	1	1	1	1	1	1	1
## 104	-1	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0	0
## 106	0	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	0	0	0	0	0	0	0	0
## 111	-1	-1	-1	-1	-1	-1	-1	-1
## 112	0	0	0	0	0	0	0	0
## 113	0	0	0	0	0	0	0	0
## 114	-2	-2	-2	-2	-2	-2	0	0
## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0	0
##	cn_EDIL3	cn_GPR98	cn_FAM81B	cn_C5orf27	cn_PCSK1	cn_ERAP2	cn_EFNA5	cn_TSLP
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-2	-1	-1	-1
## 7	-1	-1	-1	-1	-1	-1	-1	-1

## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	0	0	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	0	0	0	0	0	0	0	0
## 18	0	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0	0
## 20	0	0	0	0	0	0	0	0
## 21	-1	-1	-1	-1	-1	-1	-1	-1
## 22	-2	-2	-2	-2	-2	-2	-2	-2
## 23	-1	-1	-1	-1	-1	-1	-1	-1
## 24	0	0	0	0	0	1	0	0
## 25	0	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0	0
## 27	0	0	0	0	0	0	0	0
## 28	-1	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	-1	-2	-2
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	1	1	1	1	1	0	0	0
## 39	0	0	0	0	0	0	0	0

## 40	-2	-2	-2	-2	-2	-2	-1	-1
## 41	-1	-1	-1	-1	-1	-1	-1	-1
## 42	-1	-1	0	0	0	0	0	0
## 43	0	0	0	0	0	0	-2	0
## 44	0	0	0	0	0	0	0	0
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	1	1	1	1	1	1	1	1
## 48	1	1	1	1	1	1	1	1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1	1
## 54	-1	-1	-1	-1	-1	-1	-1	-1
## 55	0	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1	-1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	-1	-1	-1	-1	-1	-1	-1	-1
## 60	0	0	0	0	0	0	0	0
## 61	0	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	1	1
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	0	0
## 71	0	0	0	0	0	0	0	0

## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0	0
## 76	1	1	1	1	1	1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1	-1
## 79	1	1	1	1	1	1	1	1
## 80	-1	-1	-1	-1	-1	1	-1	-1
## 81	-1	-1	-1	-1	-1	-1	-1	-1
## 82	1	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-2	-1
## 86	1	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	-1	-1	-1	-1	-1	-1	-1	-1
## 89	0	0	0	0	0	0	0	0
## 90	1	1	1	1	1	1	1	1
## 91	0	0	0	0	0	0	0	0
## 92	-1	-1	-1	-1	-1	-1	-1	-1
## 93	0	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0	0
## 97	-1	-1	-1	-1	-1	-1	-2	-1
## 98	0	0	0	0	0	0	0	0
## 99	1	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1	1
## 101	-1	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0	0
## 103	1	1	1	1	1	1	1	1

## 104	-1	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0	0
## 106	1	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	0	0	0	0	0	0	0	0
## 111	-1	-1	-1	-1	-1	-1	-1	-1
## 112	0	0	0	0	0	0	0	0
## 113	0	0	0	0	0	0	0	0
## 114	0	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0	0

##	cn_TRIM36	cn_CDO1	cn_AQPEP	cn_MEGF10	cn_FBN2	cn_SLC27A6	cn_ADAMTS19
----	-----------	---------	----------	-----------	---------	------------	-------------

## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1
## 7	-1	-1	-1	-1	-1	-1	-1
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0
## 17	0	0	0	0	0	0	0
## 18	0	0	0	0	0	0	0

## 19	0	0	0	0	0	0	0
## 20	0	0	0	0	0	0	0
## 21	-1	-1	-1	-1	-1	-1	-1
## 22	-2	-2	-2	-2	-1	-1	-1
## 23	-1	-1	-1	-1	-1	-1	-1
## 24	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0
## 27	0	0	0	0	0	0	0
## 28	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1
## 32	1	1	1	2	1	1	1
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	-2	-2	-2	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	0
## 39	0	0	0	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1
## 41	-1	-1	-1	-1	-1	-1	-1
## 42	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0
## 44	0	0	0	0	0	0	0
## 45	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0
## 47	1	1	1	1	1	1	1
## 48	1	1	1	1	1	1	1
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0

## 51	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1
## 54	-1	-1	-1	-1	-1	-1	-1
## 55	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	-1	-2	-2	-1	-1	-1	-1
## 60	0	0	0	0	0	0	0
## 61	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1
## 63	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0
## 76	1	1	1	-1	1	1	1
## 77	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1
## 79	1	1	1	1	1	1	1
## 80	-1	-1	-1	-1	-1	-1	-1
## 81	-1	-1	-1	-1	-1	-1	-1
## 82	1	1	1	1	1	1	1

## 83	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1
## 86	1	1	1	1	1	1	1
## 87	0	0	0	-1	-1	-1	-1
## 88	-1	-1	-1	-1	-1	-1	-1
## 89	0	0	0	0	0	0	0
## 90	1	1	1	1	1	1	1
## 91	0	0	0	0	0	0	0
## 92	-1	-1	-1	-1	-1	-1	-1
## 93	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0
## 97	-1	-1	-1	-1	-1	-1	-1
## 98	0	0	0	0	0	0	0
## 99	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1
## 101	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0
## 103	1	1	1	1	1	1	1
## 104	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0
## 106	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0
## 110	0	0	0	0	0	0	0
## 111	-1	-1	-1	0	0	0	0
## 112	0	0	0	0	0	0	0
## 113	0	0	0	0	0	0	0
## 114	0	0	0	0	0	0	0

## 115	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0
##	cn_SHROOM1	cn_FSTL4	cn_PITX1	cn_C5orf20	cn_CXCL14	cn_PCDHA1	cn_PCDHA3
## 1	0	0	0	0	0	0	0
## 2	0	0	0	-1	-1	-1	-1
## 3	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	0	0
## 7	-1	-1	-1	-1	-1	-1	-1
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	0	0	0	-1	-1
## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0
## 17	0	0	0	0	0	0	0
## 18	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0
## 20	0	0	0	0	0	0	0
## 21	-1	-1	-1	-1	-1	-1	-1
## 22	-1	-1	-1	-1	-1	-1	-1
## 23	-1	-1	-1	-1	-1	-1	-1
## 24	0	0	1	1	1	0	0
## 25	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0
## 27	0	0	0	0	0	0	0
## 28	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0

## 30	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1
## 32	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	0
## 39	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1
## 41	-1	-1	0	0	0	0	0
## 42	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0
## 44	0	0	0	0	0	0	0
## 45	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0
## 47	1	1	1	1	1	1	1
## 48	1	1	1	1	1	1	1
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1
## 54	-1	-1	-1	-1	-1	-1	-1
## 55	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	-1	-1	-1	-1	-1	-1	-1
## 60	0	0	0	0	0	0	0
## 61	0	0	0	0	0	0	0

## 62	1	1	1	1	1	1	1
## 63	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0
## 76	1	1	1	1	-1	-1	-1
## 77	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-2	-1	-1
## 79	1	1	1	1	1	1	1
## 80	-1	-1	-1	-1	-1	-1	-1
## 81	-1	-1	-1	-1	-1	-1	-1
## 82	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1
## 86	1	1	1	1	1	1	1
## 87	-1	-1	-1	-1	-1	1	1
## 88	-1	-1	-1	-1	-1	-1	-1
## 89	0	0	0	0	0	0	0
## 90	1	1	1	1	1	1	1
## 91	0	0	0	0	0	0	0
## 92	-1	-1	-1	-1	-1	-1	-1
## 93	0	0	0	0	0	0	0

## 94	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0
## 97	-1	-1	-1	-1	-1	-1	-1
## 98	0	0	0	0	0	0	0
## 99	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1
## 101	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0
## 103	1	1	1	1	1	1	1
## 104	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0
## 106	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0
## 110	0	0	0	0	0	0	0
## 111	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0
## 113	0	0	0	0	0	0	0
## 114	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0

##	cn_PCDHA4	cn_PCDHA10	cn_PCDHA11	cn_PCDHA5	cn_PCDHA6	cn_PCDHA12	cn_PCDHA13
## 1	0	0	0	0	0	0	0
## 2	-1	-1	-1	-1	-1	-1	-1
## 3	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0
## 7	-1	-1	-1	-1	-1	-1	-1
## 8	-1	-1	-1	-1	-1	-1	-1

## 9	-1	-1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0
## 17	0	0	0	0	0	0	0
## 18	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0
## 20	0	0	0	0	0	0	0
## 21	-1	-1	-1	-1	-1	-1	-1
## 22	-1	-1	-1	-1	-1	-1	-1
## 23	-1	-1	-1	-1	-1	-1	-1
## 24	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0
## 27	0	0	0	0	0	0	0
## 28	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1
## 32	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	0
## 39	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1

## 41	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0
## 44	0	0	0	0	0	0	0
## 45	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0
## 47	1	1	1	1	1	1	1
## 48	1	1	1	1	1	1	1
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1
## 54	-1	-1	-1	-1	-1	-1	-1
## 55	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	-1	-1	-1	-1	-1	-1	-1
## 60	0	0	0	0	0	0	0
## 61	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1
## 63	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0

## 73	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1
## 79	1	1	1	1	1	1	1
## 80	-1	-1	-1	-1	-1	-1	-1
## 81	-1	-1	-1	-1	-1	-1	-1
## 82	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1
## 86	1	1	1	1	1	1	1
## 87	1	1	1	1	1	1	1
## 88	-1	-1	-1	-1	-1	-1	-1
## 89	0	0	0	0	0	0	0
## 90	1	1	1	1	1	1	1
## 91	0	0	0	0	0	0	0
## 92	-1	-1	-1	-1	-1	-1	-1
## 93	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0
## 97	-1	-1	-1	-1	-1	-1	-1
## 98	0	0	0	0	0	0	0
## 99	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1
## 101	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0
## 103	1	1	1	1	1	1	1
## 104	-1	-1	-1	-1	-1	-1	-1

## 105	0	0	0	0	0	0	0
## 106	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0
## 110	0	0	0	0	0	0	0
## 111	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0
## 113	0	0	0	0	0	0	0
## 114	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0

##	cn_IL17B	cn_GPX3	cn_FAT2	cn_GRIA1	cn_ITK	cn_FABP6	cn_ATP10B	cn_FBLL1
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## 1	0	0	0	0	0	0	0	0
## 2	-1	-1	-1	-1	-1	-1	-1	-1
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	-1	-1	-1	-1	-1	-1	-1	-1
## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	-1	-1	2	2	0
## 10	0	0	0	0	0	0	0	0
## 11	0	0	-2	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	0	0	0	0	0	0	0	0
## 18	0	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0	0

## 20	0	0	0	0	0	0	0	0
## 21	-1	-1	-1	-1	-1	-1	-1	-1
## 22	-1	-1	-1	-1	-1	-1	-1	-1
## 23	-1	-1	-1	-1	-1	-1	-1	-1
## 24	0	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0	0
## 27	0	0	0	0	0	0	0	0
## 28	-1	-1	-1	-1	-1	-1	-1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	0	0
## 39	1	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0	0
## 44	0	0	0	0	0	0	0	1
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	1	1	1	1	1	1	1	1
## 48	1	1	1	1	1	1	1	1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1	-1

## 52	0	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1	1
## 54	-1	-1	-1	-1	-1	-1	-1	-1
## 55	0	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1	-1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	-1	-1	-1	-1	-1	-1	-1	-1
## 60	0	0	0	0	0	0	0	0
## 61	0	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1	1
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	-2	-2	-2	-2	-2	-2	-2
## 76	-1	-1	-1	-1	-1	-1	-1	1
## 77	0	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1	-1
## 79	1	1	1	1	1	1	1	1
## 80	-1	-1	-1	-1	-1	1	1	-1
## 81	-1	-1	-1	-1	-1	-1	-1	-1
## 82	1	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0	0

## 84	0	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	1	1	1	1	1	1	1	1
## 87	1	1	1	1	1	1	1	1
## 88	-1	-1	-1	-1	-1	-1	-1	1
## 89	0	0	0	0	0	0	0	0
## 90	1	1	1	1	1	1	1	1
## 91	0	0	0	0	0	0	0	0
## 92	-1	-1	-1	-1	-1	-1	-1	-1
## 93	0	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0	0
## 97	1	-1	-1	-1	-1	-1	-1	-1
## 98	0	0	0	0	0	0	0	0
## 99	1	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1	1
## 101	-1	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0	0
## 103	1	1	1	1	1	1	1	1
## 104	-1	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0	0
## 106	1	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	0	0	0	0	0	0	0	1
## 111	0	0	0	0	-1	-1	-1	-1
## 112	0	0	0	0	0	0	0	0
## 113	0	0	0	0	0	0	0	0
## 114	0	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1	-1

## 116	0	0	0	0	0	0	0	0
##	cn_FAM196B	cn_FOXI1	cn_GABRP	cn_STC2	cn_MSX2	cn_CPLX2	cn_UNC5A	cn_FGFR4
## 1	0	0	0	0	0	0	0	0
## 2	-1	-1	-1	-1	-1	-1	0	0
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	-1	-1	-1	-1	-1	-1	-1	-1
## 8	-1	-1	-1	-1	-1	1	2	2
## 9	-1	-1	0	0	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	0	0	0	0	0	0	0	0
## 18	0	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0	0
## 20	0	0	0	0	0	0	0	0
## 21	-1	-1	-1	-1	-1	-1	-1	-1
## 22	-1	-1	1	-1	-1	-1	-1	-1
## 23	-1	-1	-1	-1	-1	-1	-1	-1
## 24	0	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0	0
## 27	0	0	0	0	0	0	0	0
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0

## 31	1	1	1	1	1	1	1	1
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	0	0	0	1	1	1	1	1
## 39	1	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0	0
## 44	0	0	0	1	1	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	1	1	1	1	1	1	1	1
## 48	1	1	1	1	1	1	1	1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1	1
## 54	-1	-1	-1	-1	-1	-1	-1	-1
## 55	0	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1	-1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	-1	-1	-1	-1	-1	-1	-1	-1
## 60	0	0	0	0	0	0	0	0
## 61	0	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1	1

## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	1	1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	0	0	0	0	-1	-1	-1	-1
## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	-2	-2	-2	-2	-2	-2	-2	-2
## 76	1	1	1	1	1	1	1	1
## 77	0	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1	-1
## 79	1	1	1	1	1	1	1	1
## 80	-1	-1	-1	-1	-1	-1	-1	1
## 81	-1	-1	-1	-1	-1	-1	-1	-1
## 82	1	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	1	1	1	1	1	1	1	1
## 87	1	1	1	1	1	1	1	1
## 88	1	1	1	1	1	1	1	1
## 89	0	0	0	0	0	0	0	0
## 90	1	1	1	1	1	1	1	1
## 91	0	0	0	0	0	0	0	0
## 92	-1	-1	-1	-1	-1	-1	-1	-1
## 93	0	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0

## 95	0	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0	0
## 97	-1	-1	-1	-1	-1	-1	-1	-1
## 98	0	0	0	0	0	0	0	0
## 99	1	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1	1
## 101	-1	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0	0
## 103	1	1	1	1	1	1	1	1
## 104	-1	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0	0
## 106	1	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	1	1	1	1	1	1	1	1
## 111	-1	-1	-1	-1	-1	-1	-1	-1
## 112	0	0	0	0	0	0	0	0
## 113	0	0	0	0	0	0	0	0
## 114	0	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	0	0	0
## 116	0	0	0	0	0	0	0	0

##	cn_RASGEF1C	cn_SCGB3A1	cn_BTNL9	cn_IRF4	cn_FOXC1	cn_TUBB2B	cn_ELOVL2
----	-------------	------------	----------	---------	----------	-----------	-----------

## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	1	1	1	-1	-1	-1	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	0	0	0	2	2	2	2
## 7	-1	-1	-1	0	0	0	0
## 8	2	2	-1	1	1	1	1
## 9	-1	-1	-1	0	0	0	0

## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0
## 13	-1	-1	-1	1	1	1	1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	-1	-1	-1	-1
## 16	0	0	0	-1	-1	-1	-1
## 17	0	0	0	-1	-1	-1	1
## 18	0	0	0	-1	-1	-1	-1
## 19	0	0	0	-1	-1	-1	-1
## 20	0	0	0	0	0	0	0
## 21	-1	-1	-1	0	0	0	2
## 22	-1	-1	-1	-2	-2	-2	1
## 23	-1	-1	-1	0	0	0	0
## 24	0	0	1	1	1	1	1
## 25	0	0	0	0	0	0	0
## 26	0	0	0	-1	-1	-1	-1
## 27	0	0	0	-1	-1	-1	-1
## 28	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	1	1	1	0	0	0	0
## 32	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0
## 34	0	0	1	0	0	0	0
## 35	-1	-1	-1	1	1	1	1
## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	1	1	0	-1	-1	-1	-1
## 39	1	1	1	0	0	0	0
## 40	-1	-1	-1	0	0	0	0
## 41	0	0	0	-1	-1	-1	1

## 42	0	0	0	0	0	0	0
## 43	0	0	0	1	1	1	1
## 44	1	1	1	-1	-1	-1	-1
## 45	0	0	0	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0
## 47	1	1	1	0	0	0	0
## 48	1	1	1	0	0	0	0
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	-1	-1	-1	1	1	1	1
## 52	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1
## 54	-1	-1	-1	0	0	0	0
## 55	0	0	0	0	0	0	0
## 56	-1	-1	-1	1	1	1	1
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	-1	-1	-1	1	1	1	1
## 60	0	0	0	1	1	1	1
## 61	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1
## 63	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0
## 65	-1	-1	-1	0	0	0	0
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	1	1
## 71	0	0	0	1	1	1	1
## 72	0	0	0	1	1	1	1
## 73	0	0	0	0	0	0	0

## 74	1	1	1	1	1	1	1
## 75	-2	-2	-2	1	1	1	1
## 76	1	1	1	1	1	1	1
## 77	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	1	2
## 79	1	1	1	0	0	0	0
## 80	-1	-1	-1	1	1	1	1
## 81	-1	-1	-1	0	0	0	0
## 82	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0
## 85	-1	-1	-1	1	1	1	1
## 86	1	1	1	0	0	0	0
## 87	1	1	1	0	0	0	0
## 88	1	1	1	1	1	1	1
## 89	0	0	0	-1	-1	-1	-1
## 90	1	1	1	-1	-1	-1	-1
## 91	0	0	0	1	1	1	1
## 92	-1	-1	-1	1	1	1	1
## 93	0	0	0	-2	-2	-2	-2
## 94	0	0	0	0	0	0	0
## 95	0	0	0	1	1	1	1
## 96	-1	0	0	1	1	1	1
## 97	-1	-1	-1	0	0	0	0
## 98	0	0	0	0	0	0	0
## 99	1	1	1	1	1	1	1
## 100	1	1	1	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	-1	-1	-1	-1
## 103	1	1	1	0	0	0	0
## 104	-1	-1	-1	1	0	0	0
## 105	0	0	0	0	0	0	0

## 21	1	0	0	0	0	0	0	0
## 22	1	1	1	1	1	0	0	0
## 23	0	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0	0
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	0	0	0	0	0	0	0	0
## 40	0	0	0	0	0	0	0	0
## 41	1	1	1	1	1	-1	-1	-1
## 42	0	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1	1
## 44	-1	-1	-1	-1	-1	-1	-1	-1
## 45	-1	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	0	0	0	0	0	0	0	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	1	1	1	1	1	1	1	1
## 52	0	0	0	0	0	0	0	0

## 53	1	1	1	1	1	1	1	1
## 54	0	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0	0
## 56	1	1	1	1	1	2	2	2
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	1	1	1	1	1	1	1	1
## 60	1	1	1	1	1	2	1	1
## 61	0	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1	1
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	0	0	0	0	0	0	0	0
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	1	1	1	0	0	-1	-1	-1
## 71	1	1	1	1	1	1	1	1
## 72	1	1	0	0	0	0	1	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	2	1	1	1	1
## 75	1	0	0	0	0	0	0	0
## 76	1	1	1	1	1	1	1	1
## 77	0	0	0	0	0	0	0	0
## 78	1	1	-1	2	2	1	1	1
## 79	0	0	0	0	0	0	0	0
## 80	1	1	-1	-1	-1	-1	-1	-1
## 81	0	0	0	0	0	0	0	0
## 82	1	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0

## 85	1	1	1	1	1	1	2	2
## 86	0	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0	0
## 88	1	1	1	0	0	0	0	0
## 89	-1	-1	-1	-1	-1	-1	-1	-1
## 90	-1	-1	-1	-1	-1	-1	-1	-1
## 91	1	1	1	1	1	1	1	1
## 92	1	1	1	1	1	1	1	1
## 93	-1	-1	-1	-1	-1	-1	-1	-1
## 94	0	0	0	0	0	0	0	0
## 95	1	1	1	1	1	1	1	1
## 96	1	1	1	1	1	0	0	0
## 97	0	0	0	0	0	0	0	0
## 98	0	0	0	0	0	0	0	0
## 99	1	1	1	1	1	1	1	1
## 100	0	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1	-1
## 102	-1	-1	-1	-1	-1	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0	0
## 110	0	0	0	0	0	-1	-1	-1
## 111	0	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0	0
## 113	1	1	1	1	1	1	1	1
## 114	0	0	0	0	0	0	0	0
## 115	1	-1	-1	-1	-1	2	2	2
## 116	0	0	0	0	0	0	0	0

##	cn_DLK2	cn_C6orf223	cn_GSTA1	cn_HMGCLL1	cn_BMP5	cn_COL9A1	cn_RIMS1	cn_KCNQ5
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	0	0	2
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	1	1
## 9	2	2	0	1	0	-1	-1	-1
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	1	1	1	1	1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	-1	-1	-1	-1	-1	-1	-1	-1
## 16	-1	-1	-1	-1	-1	-1	-1	-1
## 17	1	1	-1	-1	-1	1	1	1
## 18	-1	-1	-1	-1	-1	-1	-1	-1
## 19	-1	-1	-1	-1	-1	-1	-1	-1
## 20	0	0	0	0	0	0	0	0
## 21	0	0	0	0	0	0	0	0
## 22	0	0	0	0	0	0	0	0
## 23	0	0	0	0	0	0	0	0
## 24	1	1	0	0	0	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0	0

## 32	1	1	0	0	0	0	0	0
## 33	0	0	2	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	0	0	0	0	0	0	0	0
## 40	0	0	0	0	0	0	0	0
## 41	-1	-1	-1	-1	-1	-1	-1	-1
## 42	0	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1	1
## 44	-1	-1	-1	-1	-1	-1	-1	-1
## 45	-1	-1	2	2	2	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	1	1	1	1	1	1	1	1
## 52	0	0	0	0	0	0	0	0
## 53	1	1	1	1	1	0	0	0
## 54	0	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0	0
## 56	2	2	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	1	1	2	2	2	1	1	1
## 60	1	1	2	2	2	-1	-1	-1
## 61	0	0	0	0	0	-1	-1	-1
## 62	1	1	1	1	1	-1	-1	-1
## 63	1	1	1	1	1	-1	-1	-1

## 64	0	0	0	0	0	0	0	0
## 65	0	0	0	0	0	1	1	1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	-1	-1	-1
## 70	-1	-1	1	1	1	1	1	1
## 71	1	1	1	1	1	1	1	1
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	-1	-1
## 75	0	0	0	0	0	0	0	0
## 76	1	1	1	1	1	1	1	1
## 77	0	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1	2
## 79	0	0	0	0	0	0	0	0
## 80	-1	-1	-1	-1	-1	1	1	-1
## 81	0	0	0	0	0	0	0	0
## 82	1	1	1	1	1	-1	-1	-1
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	2	2	2	2	2	-1	-1	-1
## 86	0	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0	0
## 88	0	0	0	0	0	1	1	1
## 89	-1	-1	-1	-1	-1	-1	-1	-1
## 90	-1	-1	-1	-1	-1	-1	-1	-1
## 91	1	1	1	1	1	1	1	1
## 92	1	1	1	1	1	-1	-1	-1
## 93	-1	-1	-1	-1	-1	-2	-2	-2
## 94	0	0	0	0	0	0	0	0
## 95	1	1	1	1	1	1	1	1

## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1	1
## 14	0	0	0	0	0	0	0	0
## 15	-1	-1	-1	-1	-1	-1	-1	-1
## 16	-1	-1	-1	-1	-1	-1	-1	-1
## 17	1	-1	-1	-1	-1	-1	-1	-1
## 18	-1	-1	-1	-1	-1	-1	-1	-1
## 19	-1	-1	-1	-1	-1	-1	-1	-1
## 20	0	0	0	0	0	0	0	0
## 21	0	0	0	0	0	0	0	0
## 22	0	0	0	0	0	0	0	0
## 23	0	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0	0
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	2
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	0	0	0	0	0	0	0	0
## 40	0	0	0	0	0	0	0	0
## 41	-1	1	1	1	0	0	0	1
## 42	0	0	0	0	0	0	0	0

## 43	1	1	1	1	1	1	1	1
## 44	-1	-1	-1	-1	-1	-1	-1	-1
## 45	0	0	0	0	0	-1	-1	-1
## 46	0	0	0	0	0	0	0	0
## 47	0	-1	-1	-1	-1	-1	-1	-1
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	1	1	1	1	1	1	1	1
## 52	0	0	0	0	0	0	0	0
## 53	0	0	0	0	0	0	0	0
## 54	0	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	1	1	1	1	1	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	-1	0	-1	-1	-1	-1	-1	-1
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	-1	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	-1	-1	-1	-1	-1	-1	-1	-1
## 70	1	-1	-1	-1	-1	-1	-1	-1
## 71	1	-1	-1	-1	-1	-1	-1	-1
## 72	0	-1	-1	-1	-1	-1	-1	0
## 73	0	0	0	0	0	0	0	0
## 74	-1	-1	-1	-1	-1	-1	-1	-1

## 75	0	0	0	0	0	0	0	0
## 76	1	1	1	1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	2	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0	0
## 80	-1	-1	1	-1	-1	-1	-1	-1
## 81	0	0	0	0	0	0	0	0
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	-1	0	0	0	0	0	0	0
## 86	0	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0	0
## 88	1	1	1	1	1	1	1	1
## 89	-1	-1	-1	-1	-1	-1	-1	-1
## 90	-1	-1	-1	-1	-1	-1	-1	-1
## 91	1	1	1	1	1	1	1	1
## 92	-1	-1	-1	-1	-1	-1	-1	-1
## 93	-2	-1	-1	-1	-2	-1	-1	-2
## 94	0	0	0	0	0	0	0	0
## 95	1	1	1	1	1	1	1	1
## 96	0	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0	0
## 98	0	-1	-1	-1	-1	-1	-1	-1
## 99	-1	-1	-1	-1	-1	-1	-1	-1
## 100	0	0	0	0	0	0	0	0
## 101	1	1	-1	1	1	-1	-1	-1
## 102	0	0	-1	-1	-1	-1	-1	-1
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	1
## 105	0	0	0	0	0	0	-1	-1
## 106	0	0	0	0	0	0	0	0

## 107	0	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1	-1
## 111	1	1	1	1	1	1	2	2
## 112	-1	-1	-1	-1	-1	-1	-1	-1
## 113	0	0	0	0	0	0	1	1
## 114	0	0	0	0	0	0	0	0
## 115	0	0	0	0	0	0	0	0
## 116	0	0	0	0	0	0	0	0

##	cn_WISP3	cn_COL10A1	cn_RFX6	cn_PKIB	cn_FABP7	cn_TRDN	cn_KIAA0408	cn_ENPP3
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1	2
## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	1	1
## 9	-1	-1	-1	0	0	-1	-1	-1
## 10	2	2	2	2	2	2	-1	-1
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	1	1	1	1	1	1	1	1
## 14	0	0	0	0	0	0	0	0
## 15	-1	-1	-1	-1	-1	-1	-1	-1
## 16	-1	-1	-1	-1	-1	-1	-1	-1
## 17	-1	-1	-1	-1	-1	-1	-1	-1
## 18	-1	-1	-1	-1	-1	-1	-1	-1
## 19	-1	-1	-1	-1	-1	-1	-1	-1
## 20	0	0	0	0	0	0	0	0
## 21	0	0	0	0	0	0	0	0

## 22	0	0	0	0	0	0	0	0
## 23	0	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	2	1
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0	0
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	1	1	1	1	1	1	1	1
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	0	0	0	0	0	0	0	0
## 40	0	0	0	0	0	0	0	0
## 41	1	1	1	1	1	1	1	1
## 42	0	0	0	0	0	0	0	0
## 43	1	1	1	0	0	0	0	0
## 44	-1	-1	-1	-1	-1	-1	-1	-1
## 45	-1	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0	0
## 47	-1	-1	-1	-1	-1	-1	-1	-1
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	1	1	1	1	1	1	1	1
## 52	0	0	0	0	0	0	0	0
## 53	0	0	0	0	0	0	0	1

## 54	0	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1	2
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	-1	-1	-1	-1	-1	-1	0	0
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	-1	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	-1	-1	-1	-1	-1	-1	-1	-1
## 70	-1	-1	-1	-1	-1	-1	-1	-1
## 71	1	-1	-1	-1	-1	1	-1	-1
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	-1	-1	-1	-1	-1	-1	-1	-1
## 75	1	1	1	1	1	1	1	1
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0	0
## 80	-1	-1	-1	-1	-1	-1	-1	-1
## 81	0	0	0	0	0	0	0	0
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	0	0	0	0	0	0	0	0

## 86	0	0	0	0	0	0	0	-1
## 87	0	0	0	0	0	0	0	0
## 88	1	1	1	1	1	1	1	1
## 89	-1	-1	-1	-1	-1	-1	-1	-1
## 90	-1	-1	-1	-1	-1	-1	-1	-1
## 91	1	1	1	1	1	1	1	1
## 92	-1	-1	-1	-1	-1	-1	-1	-1
## 93	-2	-1	-1	-1	-1	-1	-1	-1
## 94	0	0	0	0	0	0	0	0
## 95	1	1	1	1	1	1	1	1
## 96	0	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0	0
## 98	-1	-1	-1	0	0	0	0	0
## 99	-1	-1	-1	-1	-1	-1	-1	0
## 100	0	0	0	0	0	0	0	0
## 101	-1	-1	-1	1	1	1	1	-1
## 102	-1	-1	-1	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	-1	-1	-1	-1	-1	-1	0	0
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1	-1
## 111	2	0	0	0	0	0	1	1
## 112	-1	-1	-1	-1	-1	-1	-1	-1
## 113	0	0	0	0	0	0	0	0
## 114	0	0	0	0	0	0	0	0
## 115	0	0	0	0	0	0	0	0
## 116	0	0	0	0	0	0	0	0
##	cn_EYA4	cn_MYB	cn_IL20RA	cn_IL22RA2	cn_GPR126	cn_SAMD5	cn_ULBP1	cn_PPP1R14C

## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0	0
## 8	1	-1	-1	-1	-1	-1	-1	-1
## 9	-1	2	0	0	-1	-1	-1	-1
## 10	-1	-1	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	1	1	1	1	1	1	1	1
## 14	0	-1	0	0	0	0	0	0
## 15	-1	-1	-1	-1	-1	-1	-1	-1
## 16	-1	-1	-1	-1	-1	-1	-1	-1
## 17	-1	-1	-1	-1	-1	-1	-1	-1
## 18	-1	-1	-1	-1	-1	-1	-1	-1
## 19	-1	-1	-1	-1	-1	-1	-1	-1
## 20	0	0	0	0	0	0	0	0
## 21	0	0	0	0	0	1	-2	-2
## 22	0	0	2	2	2	2	2	2
## 23	0	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0	0
## 32	0	0	0	0	0	0	0	0

## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	1	1	1	1	1	1	1	1
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	0	0	0	0	0	0	0	0
## 40	0	0	0	0	0	0	0	0
## 41	1	1	1	1	0	0	0	0
## 42	0	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0	0
## 44	-1	-1	-1	-1	-1	-1	-1	-1
## 45	-1	-1	-1	-1	-1	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	-1	-1	-1	-1	-1	-1	-1	-1
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	1	1	1	1	1	1	1	1
## 52	0	0	0	0	0	0	0	0
## 53	1	1	1	1	0	0	1	1
## 54	0	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0	0
## 56	2	2	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	-1	-1
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	-1	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0	0

## 65	1	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	-1	-1	-1	-1	-1	-1	-1	-1
## 70	-1	-1	-1	-1	-1	-1	-1	-1
## 71	2	-1	1	1	-1	-1	-1	-1
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	-1	-1	-1	-1	-1	-1	-1	-1
## 75	1	1	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	1	1	1	1	1	-1	-1	-1
## 79	0	0	0	0	0	0	0	0
## 80	-1	1	1	1	-1	-1	-1	-1
## 81	0	0	0	0	0	0	0	0
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	0	0	0	0	0	0	2	2
## 86	-1	-1	-1	-1	-1	-1	-1	-1
## 87	0	0	0	0	0	0	0	0
## 88	1	2	1	1	1	1	1	1
## 89	-1	-1	-1	-1	-1	-1	-1	-1
## 90	-1	-1	-1	-1	-1	-1	-1	-1
## 91	1	1	1	1	1	1	1	1
## 92	-1	-1	-1	-1	-1	-1	-1	-1
## 93	-1	-1	-1	-1	-1	-1	-1	-1
## 94	0	0	0	0	0	0	0	0
## 95	1	1	1	1	1	1	0	0
## 96	0	0	0	0	0	0	0	0

## 97	0	0	0	0	0	0	0	0
## 98	0	0	0	0	0	0	0	0
## 99	0	0	0	0	0	1	1	1
## 100	0	0	0	0	0	0	0	-2
## 101	1	1	1	1	1	1	1	1
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1	-1
## 111	1	1	1	1	1	1	1	1
## 112	-1	-1	-1	-1	-1	-1	-1	-1
## 113	0	1	0	0	0	0	0	0
## 114	0	0	0	0	0	0	0	0
## 115	0	0	0	0	0	0	0	0
## 116	0	0	0	0	0	0	0	0
##	cn_IYD	cn_ESR1	cn_PNLDC1	cn_SLC22A3	cn_DACT2	cn_FRMD1	cn_AMZ1	cn_ITGB8
## 1	0	0	0	0	0	0	1	1
## 2	0	0	-1	-1	-1	-1	0	0
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	2	2	2	2	1	1	1	1
## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	2	1	-1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0

## 12	0	0	0	0	0	0	0	2
## 13	1	1	1	1	1	1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	-1	-1	-1	-1	-1	-1	0	0
## 16	-1	-1	-1	-1	-1	-1	0	0
## 17	-1	-1	-1	-1	-1	-1	1	1
## 18	-1	-1	-1	-1	-1	-1	0	0
## 19	-1	-1	-1	-1	-1	-1	1	1
## 20	0	0	0	0	0	0	-1	2
## 21	-2	-2	-2	-2	-2	-2	0	0
## 22	2	2	2	2	2	2	-1	-1
## 23	0	0	0	0	0	0	-1	2
## 24	1	1	0	0	0	0	0	1
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	0	0
## 28	1	1	1	1	1	1	-1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0	0
## 32	0	0	0	0	0	0	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	1	1	1	1	1	1	0	0
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	0	0
## 39	0	0	0	0	0	0	1	1
## 40	0	0	0	0	0	0	-1	-1
## 41	0	0	-1	-1	-1	-1	0	0
## 42	0	0	0	0	0	0	1	1
## 43	0	0	0	0	1	1	1	1

## 44	-1	-1	-1	-1	-1	-1	-1	2
## 45	0	0	-1	-1	-1	-1	0	0
## 46	0	0	0	0	0	0	0	0
## 47	-1	-1	-1	-1	0	0	0	0
## 48	-1	-1	-1	-1	-1	-1	0	0
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	1	1	1	1	1	1	2	2
## 52	0	0	0	0	0	0	0	0
## 53	1	1	1	1	0	0	1	1
## 54	0	0	0	0	0	0	1	1
## 55	0	0	0	0	0	0	0	0
## 56	1	1	-1	-1	1	1	1	1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	-1	-1	-1	-1	0	0	1	1
## 62	-1	-1	-1	-1	-1	-1	1	1
## 63	-1	-1	-1	-1	-1	-1	0	0
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	-1	-1
## 66	0	0	0	0	0	0	1	1
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	-1	-1	-1	-1	-1	-1	0	0
## 70	-1	-1	-1	-1	-1	-1	1	1
## 71	-1	-1	0	0	-1	-1	0	0
## 72	0	0	-1	-1	-1	-1	0	0
## 73	0	0	0	0	0	0	0	0
## 74	-1	-1	-1	-1	-1	-1	-1	-1
## 75	0	0	0	0	0	0	1	1

## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	1	1
## 78	-1	-1	-1	-1	-1	-1	-1	-1
## 79	0	0	0	0	0	0	1	1
## 80	-1	-1	1	-1	-1	-1	1	1
## 81	0	0	0	0	0	0	1	1
## 82	-1	-1	-1	-1	-1	-1	1	1
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	1	1
## 85	2	0	0	0	1	1	-1	-1
## 86	-1	-1	-1	-1	-1	-1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	1	2	1	1	1	1	1	1
## 89	-1	-1	-1	-1	-1	-1	1	1
## 90	-1	-1	-1	-1	-1	-1	1	1
## 91	1	1	-1	-1	-1	-1	1	1
## 92	-1	-1	-1	-1	-1	-1	1	1
## 93	-1	-1	-1	-1	-1	-1	-1	-1
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	1	1
## 96	0	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0	0
## 98	0	0	0	0	0	0	0	0
## 99	1	1	1	1	-1	-1	0	0
## 100	0	0	0	0	0	0	0	0
## 101	1	-1	-1	-1	-1	-1	0	0
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0

## 108	-1	-1	-1	-1	-1	-1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	0	0
## 111	1	1	1	1	1	1	-1	-1
## 112	-1	-1	-1	-1	-1	-1	0	0
## 113	0	0	0	0	0	0	1	1
## 114	0	0	0	0	0	0	0	0
## 115	0	0	0	0	0	0	1	1
## 116	0	0	0	0	0	0	0	0
##	cn_ABCB5	cn_DNAH11	cn_MGAM	cn_PRSS1	cn_PIP	cn_CNTNAP2	cn_KCNH2	cn_WDR86
## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	1	1	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	1	1	2	2	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	0	0	0	1	1	1
## 9	-1	-1	1	1	1	2	-1	-1
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	2	2	0	0	0	0	0	0
## 13	-1	-1	0	0	0	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	-1	-1	-1	-1	-1	-1
## 18	0	0	0	0	0	0	0	0
## 19	1	1	1	1	1	1	1	1
## 20	2	2	1	1	1	1	1	1
## 21	0	0	0	0	0	0	0	0
## 22	-1	-1	1	1	1	1	1	1

## 23	1	2	0	0	0	0	0	0
## 24	1	1	2	2	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	0	0	0	0	0	0	0	0
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0	0
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	0	0	0	0	0	0
## 36	0	0	1	1	1	1	1	1
## 37	0	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	0	0
## 39	1	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1	1
## 41	0	0	0	0	0	0	0	0
## 42	1	1	0	0	1	1	1	1
## 43	1	1	1	1	1	1	1	1
## 44	2	2	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	0	0	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	2	2	1	1	1	1	1	1
## 52	0	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1	1
## 54	1	1	2	2	2	0	0	0

## 55	0	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	0	0	-1	-1	-1	-1	-1	-1
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	1	1	1	1	1	1	1	1
## 62	1	1	-1	-1	-1	-1	-1	-1
## 63	0	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1	-1
## 66	1	1	1	1	1	1	1	1
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	1	1	1	1	1	1	1	1
## 71	0	0	0	0	0	0	-1	-1
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	-1	-1	-1	-1	-1	-1	-1	-1
## 75	1	1	1	1	1	1	1	1
## 76	-1	-1	1	1	1	1	1	1
## 77	1	1	1	1	1	1	1	1
## 78	-1	-1	1	1	1	1	1	1
## 79	1	1	1	1	1	1	1	1
## 80	1	1	1	1	1	1	1	1
## 81	1	1	1	1	1	1	1	1
## 82	1	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0	0
## 84	1	1	0	0	0	0	0	0
## 85	-1	-1	1	1	1	1	1	1
## 86	1	1	0	0	0	0	0	0

## 87	0	0	0	0	0	0	0	0	
## 88	1	1	0	0	0	0	0	0	
## 89	1	1	1	1	1	1	1	1	
## 90	1	1	0	0	0	0	0	0	
## 91	1	1	-1	-1	-1	-1	-1	-1	
## 92	1	1	-1	-1	-1	-1	-1	-1	
## 93	-1	-1	-1	-1	-1	-1	-1	-1	
## 94	0	0	0	0	0	0	0	0	
## 95	1	1	1	1	1	1	1	1	
## 96	0	0	-1	-1	-1	-1	-1	-1	
## 97	0	0	0	0	0	0	0	0	
## 98	0	0	0	0	0	0	0	0	
## 99	0	0	1	1	1	1	1	1	
## 100	0	0	1	1	1	1	1	1	
## 101	0	0	0	0	0	0	0	0	
## 102	0	0	0	0	0	0	0	0	
## 103	0	0	-1	-1	-1	-1	-1	-1	
## 104	0	0	0	0	0	0	0	0	
## 105	0	0	0	0	0	0	0	0	
## 106	0	0	0	0	0	0	0	0	
## 107	0	0	0	0	0	0	0	0	
## 108	1	1	1	1	1	1	1	1	
## 109	0	0	0	0	0	0	0	0	
## 110	0	0	1	1	1	1	1	1	
## 111	-1	-1	0	0	0	0	0	0	
## 112	0	0	0	0	0	0	0	0	
## 113	1	1	-1	-1	-1	-1	-1	-1	
## 114	0	0	0	0	0	0	0	0	
## 115	1	1	-1	-1	-1	-1	-1	-1	
## 116	0	0	0	0	0	0	0	0	
##	cn_DPP6	cn_EN2	cn_MNX1	cn_PTPRN2	cn_VIPR2	cn_CSMD1	cn_DEFB1	cn_BLK	cn_GATA4
## 1	1	1	1	1	1	0	0	0	0

## 2	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	1	1	1	1
## 4	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	-2	-2	-2	-2
## 6	0	0	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	-1	-1	-1	-1
## 8	1	1	1	1	1	-1	-1	-1	-1
## 9	1	0	0	0	0	-1	-1	-1	-1
## 10	0	0	0	0	0	2	-1	-1	-1
## 11	0	0	0	0	0	2	1	-1	-1
## 12	0	0	0	0	0	-1	-1	-1	-1
## 13	-1	-1	-1	-1	-1	1	1	1	1
## 14	0	0	0	0	0	-1	-1	-1	-1
## 15	0	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0	0
## 17	-1	-1	-1	-1	-1	1	1	1	1
## 18	0	0	0	0	0	-1	-1	2	2
## 19	1	1	1	1	1	1	1	1	1
## 20	1	1	1	1	1	-1	-1	-1	-1
## 21	0	0	0	0	0	0	0	0	0
## 22	1	1	1	2	2	-2	-1	-1	-1
## 23	0	0	0	0	0	-1	-1	-1	-1
## 24	2	1	2	2	1	0	0	0	0
## 25	0	0	0	0	0	1	1	1	1
## 26	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 27	0	0	0	0	0	1	1	1	1
## 28	1	1	1	1	1	-1	-1	-1	-1
## 29	0	0	0	0	0	-1	-1	-1	-1
## 30	0	0	0	0	0	0	0	0	0
## 31	0	0	0	0	0	1	-1	-1	-1
## 32	1	1	1	1	1	-2	-2	-2	-2
## 33	0	0	0	0	0	-1	-1	-1	-1

## 34	0	0	0	0	0	-1	-1	-1	-1
## 35	0	0	0	0	0	0	0	0	0
## 36	1	1	1	1	1	0	0	0	0
## 37	0	0	0	0	0	0	0	0	0
## 38	0	0	0	0	0	-1	-1	-1	-1
## 39	1	1	1	1	1	1	1	1	1
## 40	1	1	1	1	1	-1	-1	-1	-1
## 41	0	0	0	0	0	-1	-1	-1	-1
## 42	1	1	1	1	1	-1	-1	-1	-1
## 43	1	1	1	1	1	1	1	1	1
## 44	1	1	1	1	1	-1	-1	-1	-1
## 45	0	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	1	1	1	1
## 47	0	0	0	0	0	1	1	1	1
## 48	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0	0
## 51	1	1	1	1	1	1	1	1	1
## 52	0	0	0	0	0	0	0	0	0
## 53	1	1	1	1	1	0	0	0	0
## 54	0	0	0	0	0	-1	-1	-1	-1
## 55	0	0	0	0	0	0	0	0	0
## 56	1	1	1	1	1	-1	-1	-1	-1
## 57	0	0	0	0	0	-1	-1	-1	-1
## 58	0	0	0	0	0	0	0	0	0
## 59	-1	-1	-1	-2	-1	-1	-1	-1	-1
## 60	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 61	1	1	1	1	1	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 63	0	0	0	0	0	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	1	1	1	1

## 66	1	1	1	1	1	-1	-1	-1	-1
## 67	0	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	-1	-1	-1	-1
## 69	0	0	0	0	0	0	0	0	0
## 70	1	1	1	1	1	0	0	0	0
## 71	-1	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	-1	-1	-1	-1
## 73	0	0	0	0	0	0	0	0	0
## 74	-1	-1	-1	-1	-1	1	1	0	1
## 75	1	1	1	1	1	-2	-2	-2	-2
## 76	2	2	2	2	2	-1	-1	-1	-1
## 77	1	1	1	1	1	-1	-1	-1	-1
## 78	1	1	1	1	1	-1	-1	-1	-1
## 79	1	1	1	1	1	0	0	0	0
## 80	2	2	2	2	2	-1	-1	-1	-1
## 81	1	1	1	1	1	-1	-1	-1	-1
## 82	1	1	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	-1	-1	1	1
## 85	1	1	1	1	1	1	1	1	1
## 86	0	0	0	0	0	-1	-1	-1	-1
## 87	0	0	0	0	0	-1	-1	-1	-1
## 88	0	0	0	0	0	-2	-2	-2	-2
## 89	1	1	1	1	1	1	1	1	1
## 90	0	0	0	0	0	-1	-1	-1	-1
## 91	-1	1	1	1	1	-1	-1	-1	-1
## 92	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 93	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 94	0	0	0	0	0	-1	-1	-1	-1
## 95	1	1	1	1	1	1	1	1	1
## 96	-1	0	-1	-1	-1	-1	-1	-1	-1
## 97	0	0	0	0	0	-1	-1	-1	-1

## 98	0	0	0	0	0	-1	-1	-1	-1
## 99	1	1	1	1	1	-2	-2	-2	-2
## 100	1	1	1	1	1	0	0	0	0
## 101	0	0	0	0	0	-1	-1	-1	-1
## 102	0	0	0	0	0	-1	-1	-1	-1
## 103	-1	-1	-1	-1	-1	0	0	0	0
## 104	0	0	0	0	0	-1	-1	-1	-1
## 105	0	0	0	0	0	-1	-1	-1	-1
## 106	0	0	0	0	0	-1	-1	-1	-1
## 107	0	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	-2	-2	-2	-2
## 109	0	0	0	0	0	0	0	0	0
## 110	1	1	1	1	1	-2	-2	-1	-2
## 111	0	0	0	0	0	0	0	-1	-1
## 112	0	0	0	0	0	-1	-1	0	0
## 113	-1	-1	-1	-1	-1	-1	-1	1	1
## 114	0	0	0	0	0	-2	-2	-2	-2
## 115	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	-1	-1	-1	-1

## 13	1	1	1	1	1	1	1	1
## 14	-1	-1	-1	-1	-1	-1	-1	-1
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1	1
## 18	-1	-1	-1	-1	-1	-1	-1	-1
## 19	1	1	1	1	1	1	1	1
## 20	-1	-1	-1	-1	-1	-1	-1	-1
## 21	0	0	0	0	0	0	0	0
## 22	-1	-1	-1	-1	-1	-1	-1	-1
## 23	-1	-1	-1	-1	-1	-1	-1	-1
## 24	0	0	0	0	0	0	0	0
## 25	1	1	1	1	1	1	1	1
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	1	1	1	1	1	1	1	1
## 28	-1	-1	-1	-1	-1	-1	-1	-1
## 29	-1	-1	-1	-1	-1	-1	-1	-1
## 30	0	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1	-1
## 32	-2	-2	-2	-2	-2	-2	-2	-1
## 33	-1	-1	-1	-1	-1	-1	-1	-1
## 34	-1	-1	-1	-1	-1	-1	-1	-1
## 35	0	0	0	0	0	0	0	0
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	1	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	-1	-1	-1	-1	-1	-1	-1	-1
## 42	0	0	0	0	-1	-1	-1	-1
## 43	1	1	1	1	1	1	1	1
## 44	-1	-1	-1	-1	-1	-1	-1	-1

## 45	0	0	0	0	0	0	0	0
## 46	1	1	1	1	1	1	1	1
## 47	1	1	1	1	1	1	1	1
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	1	1	1	1	1	1	1	1
## 52	0	0	0	0	0	0	0	0
## 53	0	0	0	0	0	0	0	0
## 54	-1	-1	-1	-1	-1	-1	-1	-1
## 55	0	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1	-1
## 57	-1	-1	-1	-1	-1	-1	-1	-1
## 58	0	0	0	0	0	0	0	0
## 59	-1	-1	-1	-1	-1	-1	-1	-1
## 60	-1	0	0	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	1	2
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	-1	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	-1	-1	-1	-1	-1	-1	-1	-1
## 67	0	0	0	0	0	0	0	0
## 68	-1	-1	-1	-1	-1	-1	-1	-1
## 69	0	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	-1	-1
## 71	0	0	0	0	0	0	0	0
## 72	-1	-1	-1	-1	-1	-1	-1	-1
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	-1	-1	-1	-1	-1	-1	-1	-1
## 76	-1	-1	-1	-1	-1	-1	-1	-1

## 77	-1	-1	-1	-1	-1	-1	-1	-1
## 78	-1	-1	-1	-1	-1	-1	-1	-1
## 79	0	0	0	0	0	0	0	0
## 80	-1	0	-1	-1	-1	-1	-1	-1
## 81	-1	-1	-1	-1	-1	-1	-1	1
## 82	1	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0	0
## 84	1	1	1	1	1	1	1	1
## 85	1	1	1	1	1	1	1	1
## 86	-1	-1	-1	-1	-1	-1	-1	-1
## 87	-1	-1	-1	-1	-1	-1	-1	-1
## 88	-2	-2	-2	-2	-2	-2	-2	-2
## 89	1	1	1	1	1	1	1	1
## 90	-1	-1	-1	-1	-1	-1	-1	-1
## 91	-1	-1	-1	-1	-1	-1	-1	-1
## 92	-1	-1	-1	-1	-1	-1	-1	-1
## 93	-1	-1	-1	-1	-1	-1	-1	-1
## 94	-1	-1	-1	-1	-1	-1	-1	-1
## 95	1	1	1	1	1	1	1	1
## 96	-1	-1	-1	-1	-1	-1	-1	0
## 97	-1	-1	-1	-1	-1	-1	-1	-1
## 98	-1	-1	-1	-1	-1	-1	-1	-1
## 99	-2	-2	-2	-2	-2	-2	-2	-2
## 100	0	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1	-1
## 102	-1	-1	-1	-1	-1	-1	-1	-1
## 103	0	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1	-1
## 105	-1	-1	-1	-1	-1	-1	-1	-1
## 106	-1	-1	-1	-1	-1	-1	-1	-1
## 107	0	0	0	0	0	0	0	0
## 108	-2	-2	-2	-2	-2	-2	-2	-2

## 109	0	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-2	-1	-1	-2	-2	-2
## 111	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 112	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 113	0	0	0	-1	-1	-1	-1	-1	-1
## 114	-2	-2	-2	-1	-1	-1	-1	-1	-1
## 115	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 116	-1	-1	-1	-1	-1	1	1	1	-1

##	cn_NEFL	cn_SCARA5	cn_NRG1	cn_ADAM32	cn_IDO1	cn_C8orf4	cn_ZMAT4	cn_SFRP1
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## 1	-2	-2	-2	1	-2	-2	-2	-2
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	-2	-2	-2	1	1	1	1	1
## 6	-1	-1	-1	-1	-1	-1	-1	-1
## 7	-1	-1	-1	-1	-1	-1	-1	-1
## 8	-1	-1	-1	1	1	1	1	1
## 9	0	-1	-1	-1	-1	-1	-1	-1
## 10	-1	-1	-1	2	2	2	2	0
## 11	-1	-1	-1	-1	-1	-1	-1	-1
## 12	-1	-1	-1	-1	-1	-1	-1	-1
## 13	1	1	1	1	1	1	1	1
## 14	-1	-1	-1	2	2	2	2	2
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1	1
## 18	-1	-1	-1	2	2	2	2	2
## 19	1	1	1	1	1	1	1	1
## 20	-1	-1	2	0	0	0	0	0
## 21	0	0	0	1	1	1	1	1
## 22	-1	1	1	1	1	1	1	1
## 23	-1	-1	-1	2	2	2	2	-1

## 24	0	0	0	1	1	1	1	1
## 25	1	1	1	1	1	1	1	1
## 26	-1	-1	-1	1	1	1	1	1
## 27	1	1	1	1	1	1	1	1
## 28	-1	-1	-1	-1	-1	-1	-1	-1
## 29	-1	-1	-1	1	1	1	1	1
## 30	0	0	2	2	2	2	2	2
## 31	-1	-1	-1	1	1	1	2	2
## 32	-1	-1	-1	1	1	1	1	1
## 33	-1	-1	-1	2	2	2	-1	0
## 34	-1	2	-1	2	1	1	2	2
## 35	0	0	0	0	0	0	0	0
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	2	2	2	2	2
## 39	1	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	-1	-1	-1	0	0	0	0	0
## 42	-1	-1	-1	-1	-1	-1	-1	-1
## 43	1	1	1	1	1	1	1	1
## 44	-1	-1	-1	2	2	2	2	1
## 45	0	0	0	0	0	0	0	0
## 46	1	1	1	1	1	1	1	1
## 47	1	1	1	1	1	1	1	1
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	1	1	1	1	1	1	1	1
## 52	0	0	0	0	0	0	0	0
## 53	0	0	0	0	0	0	0	0
## 54	-1	-1	-1	2	2	2	2	2
## 55	0	0	0	0	0	0	0	0

## 56	-1	-1	-1	2	2	2	2	2
## 57	-1	-1	-1	2	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	-1	-1	2	0	0	0	0	0
## 60	-1	-1	2	2	2	2	2	2
## 61	-1	-1	1	2	2	2	2	2
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	-1	-1	-1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	-1	-1	1	1	1	1	1	1
## 67	0	0	0	0	0	0	0	0
## 68	-1	-1	-1	-1	-1	-1	-1	-1
## 69	0	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	-1	-1
## 71	0	0	0	0	0	0	0	0
## 72	-1	-1	-1	1	1	1	1	1
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	-1	0	0	0	0	0	0	0
## 76	-1	-1	-1	1	1	1	1	1
## 77	-1	-1	-1	1	-1	-1	1	1
## 78	-1	-1	-1	-1	-1	-1	-1	-1
## 79	0	0	0	0	0	0	0	0
## 80	-1	-1	-1	-1	-1	-1	-1	-1
## 81	-1	1	-1	1	1	1	1	1
## 82	1	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0	0
## 84	1	1	1	1	1	1	1	1
## 85	1	1	1	1	1	1	1	1
## 86	-1	-1	-1	1	1	1	1	1
## 87	-1	-1	-1	1	1	1	1	1

## 88	-2	-2	-1	-1	-1	-1	-1	0
## 89	1	1	1	1	1	1	1	1
## 90	-1	-1	-1	-1	-1	-1	-1	-1
## 91	-1	-1	-1	-1	-1	-1	-1	-1
## 92	-1	-1	-1	1	1	1	1	1
## 93	-1	-1	-1	-1	-1	-1	-1	-1
## 94	-1	-1	-1	-1	0	0	0	0
## 95	1	1	1	1	1	1	1	1
## 96	-1	-1	-1	2	2	2	2	2
## 97	-1	-1	-1	2	2	2	1	1
## 98	-1	-1	1	1	1	1	1	1
## 99	-2	-2	-2	1	1	1	1	1
## 100	0	0	0	0	0	0	0	0
## 101	-1	-1	-1	2	2	2	0	1
## 102	-1	-1	-1	1	-1	1	1	1
## 103	0	0	0	0	0	0	0	0
## 104	-1	-1	-1	0	0	0	0	0
## 105	-1	-1	-1	0	0	0	0	0
## 106	-1	-1	-1	1	1	1	1	1
## 107	0	0	0	0	0	0	0	0
## 108	-2	-2	-2	2	2	2	2	1
## 109	0	0	0	1	1	1	1	1
## 110	-2	-2	1	-1	-1	-1	-1	-1
## 111	0	0	0	0	0	0	0	0
## 112	-1	0	0	2	0	0	0	0
## 113	-1	-1	-1	-1	-1	-1	-1	-1
## 114	-1	-2	-2	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	-1	-1	-1	1	1	1	1	1
##	cn_ANK1	cn_EFCAB1	cn_PXDNL	cn_OPRK1	cn_RP1	cn_SDR16C5	cn_PENK	cn_CA8
## 1	-2	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0

## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	1	1	1	1	1	1	1	1
## 6	-1	1	1	1	1	1	1	1
## 7	-1	2	2	2	2	2	2	2
## 8	1	1	0	0	0	0	0	0
## 9	-1	-1	-1	0	0	2	2	1
## 10	2	0	0	0	0	0	0	0
## 11	-1	1	2	1	1	1	1	1
## 12	-1	1	1	1	1	1	1	1
## 13	1	1	1	1	1	1	1	1
## 14	2	2	2	2	2	2	2	2
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1	1
## 18	2	2	2	2	2	2	2	2
## 19	1	1	1	1	1	1	1	1
## 20	0	0	0	0	0	0	0	0
## 21	1	1	1	1	1	1	1	1
## 22	1	1	1	1	1	1	1	1
## 23	2	2	2	2	2	2	2	2
## 24	1	1	1	1	1	1	1	1
## 25	1	1	1	1	1	1	1	1
## 26	1	1	1	1	1	1	1	1
## 27	1	1	1	1	1	1	1	1
## 28	-1	1	1	1	2	2	2	2
## 29	1	0	0	0	0	0	0	0
## 30	2	0	0	0	0	0	0	0
## 31	2	2	2	2	2	2	2	2
## 32	1	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	2	1	1	1	1	1	1	1

## 35	0	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	1	1	1	1	1	1	1	1
## 39	1	1	1	1	1	1	1	1
## 40	-1	1	1	1	1	1	1	1
## 41	0	0	0	0	0	0	0	0
## 42	-1	1	1	1	1	1	1	1
## 43	1	1	1	1	1	1	1	1
## 44	1	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	1	1	1	1	1	1	1	1
## 47	1	1	1	1	1	1	1	1
## 48	-1	1	1	1	1	1	1	1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	1	-1	-1	0	0	0	0	0
## 52	0	0	0	0	0	0	0	0
## 53	0	1	1	1	1	1	1	1
## 54	2	2	2	2	2	2	2	2
## 55	0	0	0	0	0	0	0	0
## 56	2	2	2	2	2	2	2	2
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	1	1	1	1	1	1	1	1
## 60	2	1	1	1	1	1	1	1
## 61	2	1	1	1	1	1	1	1
## 62	-1	1	1	1	1	1	1	1
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	1	1	1	1	1	1	1	1

## 67	0	0	0	0	0	0	0	0
## 68	-1	1	1	1	1	1	1	1
## 69	0	0	0	0	0	0	0	0
## 70	-1	1	1	1	1	1	1	1
## 71	0	0	0	0	0	0	0	0
## 72	1	1	1	1	1	1	1	1
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	0	0	2	2	2	2	2
## 76	1	1	1	1	1	1	1	1
## 77	1	1	1	1	1	1	1	1
## 78	-1	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0	0
## 80	-1	1	1	1	1	1	1	1
## 81	1	1	1	1	1	1	1	1
## 82	1	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0	0
## 84	1	1	1	1	1	1	1	1
## 85	1	1	1	1	1	1	1	1
## 86	1	2	2	2	2	2	2	2
## 87	1	1	1	1	1	1	1	1
## 88	0	0	1	1	2	0	0	0
## 89	1	1	1	1	1	1	1	1
## 90	-1	1	1	1	1	1	1	1
## 91	-1	-1	1	1	2	2	2	2
## 92	1	1	1	1	1	1	1	1
## 93	-1	1	2	2	1	1	1	2
## 94	0	0	0	0	0	0	0	0
## 95	1	1	1	1	1	1	1	1
## 96	2	1	1	1	1	1	1	1
## 97	1	2	2	2	2	2	2	2
## 98	1	2	2	1	1	1	1	1

## 99	1	1	1	1	1	1	1	1
## 100	0	0	0	0	0	0	0	0
## 101	2	-1	-1	-1	-1	1	-1	1
## 102	1	1	1	1	1	1	1	1
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0	0
## 106	1	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1	1
## 109	1	1	1	1	1	1	1	1
## 110	-1	1	1	1	1	1	1	1
## 111	0	0	0	0	0	0	0	0
## 112	0	-1	-1	-1	-1	-1	-1	-1
## 113	-1	1	1	1	1	1	1	1
## 114	0	0	0	0	0	0	0	0
## 115	-1	1	1	1	1	1	1	2
## 116	1	0	0	0	0	0	0	0

## 14	2	2	2	2	2	2	2	2
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1	1
## 18	2	2	2	2	2	2	2	2
## 19	1	1	1	1	1	1	1	1
## 20	0	0	0	0	0	0	0	0
## 21	1	1	1	1	1	1	1	1
## 22	2	2	2	2	2	2	2	2
## 23	2	2	2	2	2	2	2	2
## 24	1	1	1	1	1	1	1	1
## 25	1	1	1	1	1	1	1	1
## 26	1	1	1	1	1	1	1	1
## 27	1	1	1	1	1	1	1	1
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	2	2	2	2	2	2	2	2
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	2	2	2	2	2	2	2	2
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	1	1	1	1	1	1	1	1
## 39	1	1	1	1	1	1	1	1
## 40	1	1	1	1	1	1	1	1
## 41	0	0	0	0	0	1	1	1
## 42	2	2	2	2	2	2	2	2
## 43	1	1	1	1	1	1	1	1
## 44	1	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0	0

## 46	1	1	1	1	1	1	1	1
## 47	1	1	1	1	1	1	1	1
## 48	1	1	1	1	1	1	1	1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	0	0	0	0	0	0	0	0
## 52	0	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1	1
## 54	2	2	2	2	2	2	2	2
## 55	0	0	0	0	0	0	0	0
## 56	2	2	2	1	1	2	2	2
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	1	1	1	1	1	1	1	1
## 60	2	1	1	1	1	1	1	1
## 61	1	1	1	1	1	1	1	1
## 62	1	1	1	1	1	1	1	1
## 63	1	1	1	1	1	1	1	1
## 64	0	-2	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	1	1	1	1	1	1	1	1
## 67	0	0	0	0	0	0	0	0
## 68	1	1	1	1	1	1	1	1
## 69	0	0	0	0	0	0	0	0
## 70	1	1	1	1	1	1	1	1
## 71	0	0	0	0	0	0	0	0
## 72	1	1	1	1	1	1	1	1
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	1	1	1	1	1	1	1	1
## 76	1	1	1	1	1	1	1	1
## 77	1	1	1	1	1	1	1	1

## 78	2	2	2	2	2	2	2	2
## 79	0	0	0	0	0	0	0	0
## 80	1	1	1	1	1	1	1	1
## 81	1	1	1	1	1	1	1	1
## 82	1	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0	0
## 84	1	1	1	1	1	1	1	1
## 85	1	1	1	1	1	1	1	1
## 86	2	2	2	2	2	2	2	2
## 87	1	1	1	1	1	1	1	1
## 88	0	0	0	0	0	0	0	0
## 89	1	1	1	1	1	1	1	1
## 90	1	1	1	1	1	2	2	2
## 91	2	2	2	2	2	2	2	2
## 92	1	1	1	1	1	1	1	1
## 93	1	1	1	1	1	1	1	1
## 94	0	0	0	0	0	0	0	0
## 95	1	1	1	1	1	1	1	1
## 96	1	1	1	1	1	1	1	1
## 97	2	2	2	2	2	2	2	2
## 98	1	1	1	1	1	1	1	1
## 99	1	1	1	1	1	1	1	1
## 100	0	0	0	0	0	0	0	0
## 101	1	1	1	1	1	1	1	1
## 102	1	1	1	1	1	1	1	1
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0	0
## 106	1	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1	1
## 109	1	1	1	1	1	1	1	1

## 110	1	1	1	1	1	1	1	1
## 111	0	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0	0
## 113	1	1	1	1	2	1	1	1
## 114	1	1	1	1	1	1	1	1
## 115	1	1	1	1	1	2	2	2
## 116	0	0	0	0	0	0	0	0

##	cn_Pi15	cn_CRISPLD1	cn_HNF4G	cn_PKIA	cn_FABP4	cn_CA3	cn_CA2	cn_ATP6VOD2
## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	1	1	1	1	1
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	1	1	1	1	1	1	1	1
## 6	0	0	0	0	0	0	0	0
## 7	2	2	2	2	2	2	2	2
## 8	1	1	1	1	1	1	1	1
## 9	2	2	2	2	0	1	1	1
## 10	0	0	0	0	2	0	0	0
## 11	1	1	1	1	1	1	1	1
## 12	1	1	1	1	1	1	1	1
## 13	1	1	1	1	1	1	1	1
## 14	2	2	2	2	2	2	2	2
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1	1
## 18	2	2	2	2	2	2	2	2
## 19	1	1	1	1	1	1	1	1
## 20	0	0	0	0	0	0	0	1
## 21	1	1	1	1	1	1	1	1
## 22	1	1	1	1	1	1	1	1
## 23	2	2	2	2	2	2	2	2
## 24	1	1	1	1	1	1	1	1

## 25	1	1	1	1	1	1	1	1
## 26	1	1	1	1	1	1	1	1
## 27	1	1	1	1	1	1	1	1
## 28	1	1	1	1	1	1	1	1
## 29	1	1	1	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	2	2	2	2	2	2	2	2
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	2	2	2	2	2	2	2	2
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	1	1	1	1	1	1	1	1
## 39	1	1	1	1	1	1	1	1
## 40	1	1	1	1	1	1	1	1
## 41	2	2	2	2	2	2	2	2
## 42	1	1	1	2	2	2	2	2
## 43	1	1	1	1	1	1	1	1
## 44	1	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	1	1	1	1	1	1	1	1
## 47	1	1	1	1	1	1	1	1
## 48	1	1	1	1	1	1	1	1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	0	0	0	0	0	1	1	1
## 52	0	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1	1
## 54	2	2	2	2	2	2	2	2
## 55	0	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1	1

## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	1	1	1	1	1	1	1	1
## 60	1	1	1	1	1	1	1	1
## 61	1	1	1	1	1	1	1	1
## 62	1	1	1	1	2	2	2	2
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	1	1	1	1	1	1	1	1
## 67	0	0	0	0	0	0	0	0
## 68	1	1	1	1	1	1	1	1
## 69	0	0	0	0	0	0	0	0
## 70	1	1	1	1	1	1	1	1
## 71	0	0	0	0	0	0	0	0
## 72	1	1	1	1	1	1	1	1
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	1	1	1	1	1	1	1	1
## 76	1	1	1	1	1	1	1	1
## 77	1	1	1	1	1	1	1	1
## 78	2	2	2	2	2	2	2	2
## 79	0	0	0	0	0	0	0	0
## 80	1	1	1	1	1	1	1	1
## 81	1	1	1	1	1	1	1	1
## 82	1	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0	0
## 84	1	1	1	1	1	1	1	1
## 85	1	1	1	1	1	0	1	1
## 86	2	2	2	2	2	2	2	2
## 87	1	1	1	1	1	1	1	1
## 88	0	0	0	0	0	0	0	0

## 89	1	1	1	1	1	1	1
## 90	2	2	2	1	1	2	2
## 91	2	2	2	2	2	2	2
## 92	1	1	1	1	1	1	1
## 93	1	1	1	1	2	2	2
## 94	0	0	0	0	0	0	0
## 95	1	1	1	1	1	1	1
## 96	1	1	1	1	1	1	1
## 97	2	2	2	2	2	2	2
## 98	1	1	1	1	1	1	1
## 99	1	1	1	1	1	1	1
## 100	0	0	0	0	0	0	0
## 101	1	1	1	1	1	1	1
## 102	1	1	1	1	1	1	1
## 103	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0
## 106	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1
## 109	1	1	1	1	1	1	1
## 110	1	1	1	1	1	2	2
## 111	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0
## 113	2	2	2	1	1	1	1
## 114	1	1	1	1	1	1	1
## 115	2	2	2	2	0	2	2
## 116	0	0	0	0	0	0	0
##	cn_MATN2	cn_C8orf47	cn_RGS22	cn_RIMS2	cn_PKHD1L1	cn_CSMD3	cn_SLC30A8
## 1	1	1	1	1	1	1	1
## 2	1	1	1	1	1	1	1
## 3	1	1	1	1	1	1	1

## 4	0	0	0	0	0	0	0
## 5	1	1	1	1	1	1	1
## 6	0	0	0	0	0	0	2
## 7	2	2	2	2	2	2	2
## 8	1	1	2	2	2	2	2
## 9	2	2	2	2	0	0	0
## 10	2	2	2	2	2	2	2
## 11	2	2	2	2	2	1	2
## 12	1	1	1	1	1	1	1
## 13	1	1	1	1	2	2	1
## 14	2	2	2	2	2	2	2
## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1
## 18	2	2	2	2	2	2	2
## 19	1	1	1	1	1	1	1
## 20	2	2	2	2	2	2	2
## 21	1	1	1	1	1	2	2
## 22	1	1	1	2	1	1	1
## 23	2	2	2	2	2	2	2
## 24	1	1	1	1	1	1	1
## 25	1	1	1	1	1	1	1
## 26	1	1	1	1	1	1	1
## 27	1	1	1	1	1	1	1
## 28	2	2	2	1	1	1	1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	2	2	2	2	2	2	2
## 32	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0
## 34	2	2	2	2	2	2	2
## 35	1	1	1	1	1	1	1

## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	1	1	1	1	1	1	1
## 39	1	1	1	1	1	1	1
## 40	1	1	1	1	1	1	1
## 41	1	1	1	2	2	2	2
## 42	2	2	2	2	2	2	2
## 43	1	1	1	1	1	1	1
## 44	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0
## 46	1	1	1	1	1	1	1
## 47	1	1	1	1	1	1	1
## 48	1	1	1	1	1	1	1
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	1	1	1	1	1	1	1
## 52	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1
## 54	2	2	2	2	2	2	2
## 55	0	0	0	0	0	0	0
## 56	1	1	2	2	1	1	1
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	1	1	1	1	1	1	1
## 60	2	2	2	2	2	2	2
## 61	1	1	1	1	1	1	1
## 62	2	2	2	2	2	2	2
## 63	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1
## 66	1	1	1	1	1	1	1
## 67	0	0	0	0	0	0	0

## 68	1	1	1	1	1	1	1
## 69	0	0	0	0	0	0	0
## 70	1	1	1	1	1	1	1
## 71	0	0	0	0	0	0	0
## 72	1	1	1	1	1	1	1
## 73	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1
## 75	1	1	1	1	1	1	1
## 76	1	1	1	1	1	1	1
## 77	1	1	1	1	1	1	1
## 78	2	2	2	2	2	2	2
## 79	0	0	0	0	0	0	0
## 80	1	1	2	2	2	2	2
## 81	1	1	1	1	1	1	1
## 82	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0
## 84	1	1	1	1	1	1	1
## 85	1	1	1	1	1	1	1
## 86	2	2	2	2	2	2	2
## 87	1	1	1	1	1	1	1
## 88	0	0	1	0	0	0	0
## 89	1	1	1	1	1	1	1
## 90	1	1	1	1	1	1	1
## 91	2	2	2	2	2	2	2
## 92	1	1	1	1	1	1	1
## 93	2	2	2	2	2	2	2
## 94	0	2	0	0	0	0	1
## 95	1	1	1	1	1	1	1
## 96	1	1	1	1	1	1	1
## 97	2	2	2	2	2	2	2
## 98	1	1	1	1	1	1	2
## 99	1	1	1	1	1	1	1

## 100	0	0	0	0	0	0	0
## 101	1	1	1	1	1	1	1
## 102	1	1	1	1	1	1	1
## 103	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0
## 105	0	0	0	1	1	1	1
## 106	1	1	1	1	1	1	1
## 107	0	0	0	-2	0	0	0
## 108	1	1	1	1	1	1	1
## 109	1	1	1	1	1	1	1
## 110	2	2	2	2	2	2	2
## 111	2	2	2	2	2	2	2
## 112	0	0	0	0	0	0	0
## 113	2	2	2	1	1	1	1
## 114	1	1	1	1	1	1	1
## 115	2	2	2	2	2	2	2
## 116	0	0	0	0	0	0	0
##	cn_TNFRSF11B	cn_COL14A1	cn_FAM83A	cn_GSDMC	cn_FAM135B	cn_COL22A1	cn_BAI1
## 1	1	1	1	1	1	1	1
## 2	1	1	1	1	1	1	1
## 3	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0
## 5	1	1	1	1	1	1	1
## 6	2	2	2	2	2	2	2
## 7	2	2	2	2	2	2	2
## 8	2	2	2	2	2	2	2
## 9	2	2	2	-1	0	0	1
## 10	2	2	2	2	2	2	2
## 11	2	1	2	2	0	0	0
## 12	1	1	1	1	1	1	1
## 13	1	1	1	2	1	1	1
## 14	2	2	2	2	2	2	2

## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1
## 18	2	2	2	2	2	2	2
## 19	1	1	1	1	1	1	1
## 20	2	2	2	2	2	2	2
## 21	2	2	2	1	1	1	1
## 22	1	1	1	1	1	1	1
## 23	2	2	2	2	2	2	2
## 24	1	1	1	1	1	1	1
## 25	1	1	1	1	1	1	1
## 26	1	1	1	1	1	1	1
## 27	1	1	1	1	1	1	1
## 28	1	1	1	1	1	1	2
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	2	2	2	2	2	2	2
## 32	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0
## 34	2	2	2	2	0	0	0
## 35	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	1	1	1	1	1	1	1
## 39	1	1	1	1	1	1	1
## 40	1	1	1	1	1	1	1
## 41	2	2	2	2	2	2	2
## 42	2	1	1	1	1	1	1
## 43	1	1	1	1	1	1	1
## 44	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0
## 46	1	1	1	1	1	1	1

## 47	1	1	1	1	1	1	1
## 48	1	1	1	1	1	1	1
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	1	1	1	0	0	0	0
## 52	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1
## 54	2	2	2	2	2	2	2
## 55	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	1	1	1	1	1	1	1
## 60	2	2	2	2	2	2	2
## 61	1	1	1	1	1	1	0
## 62	2	2	2	2	2	2	2
## 63	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1
## 66	1	1	1	1	1	1	1
## 67	0	0	0	0	0	0	0
## 68	1	1	1	1	1	1	1
## 69	0	0	0	0	0	0	0
## 70	1	1	1	1	1	1	1
## 71	0	0	0	0	0	0	0
## 72	1	1	1	1	1	1	1
## 73	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1
## 75	1	1	1	1	1	1	1
## 76	1	1	1	1	1	1	1
## 77	1	1	1	1	1	1	1
## 78	2	2	2	2	2	2	2

## 79	0	0	0	0	0	0	0
## 80	2	2	2	2	1	1	1
## 81	1	1	1	1	1	1	1
## 82	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0
## 84	1	1	1	1	1	1	1
## 85	1	1	1	1	1	1	1
## 86	2	2	2	2	2	2	2
## 87	1	1	1	1	1	1	1
## 88	0	0	0	0	0	0	1
## 89	1	1	1	1	1	1	1
## 90	1	1	1	1	1	1	1
## 91	2	2	2	2	2	2	2
## 92	1	1	1	1	1	1	1
## 93	2	2	2	2	2	2	2
## 94	1	1	1	1	1	1	1
## 95	1	1	1	1	1	1	1
## 96	1	1	1	1	1	1	1
## 97	2	2	2	2	2	2	2
## 98	1	1	1	1	1	1	1
## 99	1	1	1	1	1	1	1
## 100	0	0	0	0	0	0	0
## 101	1	1	1	1	1	1	1
## 102	1	1	1	1	1	1	1
## 103	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0
## 105	1	1	1	0	0	-1	0
## 106	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1
## 109	1	1	1	1	1	1	1
## 110	2	2	2	2	2	2	2

## 111	2	2	2	2	2	2	2
## 112	0	0	0	0	0	0	0
## 113	1	1	2	2	1	1	1
## 114	1	1	1	0	-2	-2	-2
## 115	2	2	2	2	2	2	1
## 116	0	0	0	0	0	0	0

##	cn_ARC	cn_PSCA	cn_LY6K	cn_SLURP1	cn_LY6D	cn_GPIHBP1	cn_MAPK15	cn_GPT
## 1	1	1	1	1	1	1	1	1
## 2	1	1	1	1	1	1	1	1
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	1	1	1	1	1	1	1	1
## 6	2	2	2	2	2	2	2	2
## 7	2	2	2	2	2	2	2	2
## 8	2	2	2	2	2	2	2	2
## 9	1	1	1	1	1	1	-1	-1
## 10	2	2	2	2	2	2	2	2
## 11	0	0	0	0	0	0	0	0
## 12	1	1	1	1	1	1	1	1
## 13	1	1	1	1	1	1	1	1
## 14	2	2	2	2	2	2	2	2
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1	1
## 18	2	2	2	2	2	2	2	2
## 19	1	1	1	1	1	1	1	1
## 20	2	2	2	2	2	2	2	2
## 21	1	1	1	1	1	1	1	1
## 22	1	1	1	1	1	1	1	1
## 23	2	2	2	2	2	2	2	2
## 24	1	1	1	1	1	1	1	1
## 25	1	1	1	1	1	1	1	1

## 26	1	1	1	1	1	1	1	1
## 27	1	1	1	1	1	1	1	1
## 28	2	2	2	2	2	2	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	2	2	2	2	2	2	2	2
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	1	1	1	1	1	1	1	1
## 39	1	1	1	1	1	1	1	1
## 40	1	1	1	1	1	1	1	1
## 41	2	2	2	2	2	2	2	2
## 42	1	1	1	1	1	1	1	1
## 43	1	1	1	1	1	1	1	1
## 44	1	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	1	1	1	1	1	1	1	1
## 47	1	1	1	1	1	1	1	1
## 48	1	1	1	1	1	1	1	1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	0	0	0	0	0	0	0	0
## 52	0	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1	1
## 54	2	2	2	2	2	2	2	2
## 55	0	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0	0

## 58	0	0	0	0	0	0	0	0
## 59	1	1	1	1	1	1	1	1
## 60	2	2	2	2	2	2	2	2
## 61	0	0	0	0	0	1	1	1
## 62	2	2	2	2	2	2	2	1
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	1	1	1	1	1	1	1	1
## 67	0	0	0	0	0	0	0	0
## 68	1	1	1	1	1	1	1	1
## 69	0	0	0	0	0	0	0	0
## 70	1	1	1	1	1	1	1	1
## 71	0	0	0	0	0	0	0	0
## 72	1	1	1	1	1	1	1	1
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	1	1	1	1	1	1	1	1
## 76	1	1	1	1	1	1	1	1
## 77	1	1	1	1	1	1	1	1
## 78	2	2	2	2	2	2	2	2
## 79	0	0	0	0	0	0	0	0
## 80	1	1	1	1	1	1	1	1
## 81	1	1	1	1	1	1	1	1
## 82	1	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0	0
## 84	1	1	1	1	1	1	1	1
## 85	1	1	1	1	1	1	1	1
## 86	2	2	2	2	2	2	2	2
## 87	1	1	1	1	1	1	1	1
## 88	1	1	1	1	1	1	1	1
## 89	1	1	1	1	1	1	1	1

## 90	1	1	1	1	1	1	1	1
## 91	2	2	2	2	2	2	2	2
## 92	1	1	1	1	1	1	1	1
## 93	2	2	2	2	2	2	2	2
## 94	1	1	1	1	1	1	1	1
## 95	1	1	1	1	1	1	1	1
## 96	1	1	1	1	1	1	1	1
## 97	2	2	2	2	2	2	2	2
## 98	1	1	1	1	1	1	1	1
## 99	1	1	1	1	1	1	1	1
## 100	0	0	0	0	0	0	0	0
## 101	1	1	1	1	1	1	1	1
## 102	1	1	1	1	1	1	1	1
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0	0
## 106	1	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1	1
## 109	1	1	1	1	1	1	1	1
## 110	2	2	2	2	2	2	2	2
## 111	2	2	2	2	2	2	2	2
## 112	0	0	0	0	0	0	0	0
## 113	1	1	1	1	1	2	2	2
## 114	-2	-2	-2	-2	-2	-2	-2	-2
## 115	1	1	1	1	1	1	1	1
## 116	0	0	0	0	0	0	0	0
##	cn_SLC1A1	cn_RLN2	cn_IL33	cn_GLDC	cn_TYRP1	cn_FREM1	cn_SH3GL2	cn_SLC24A2
## 1	0	0	0	0	0	0	-1	-1
## 2	0	0	0	0	0	0	0	0
## 3	-1	-1	-1	-1	-1	-2	-1	-1
## 4	0	0	0	0	0	0	0	0

## 5	0	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	-1	-1
## 7	2	2	2	2	2	2	2	2
## 8	1	2	2	2	2	2	1	-1
## 9	1	1	1	1	2	2	2	2
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	-1	-1	-1	-1	-1	-1	-1	-1
## 13	1	1	1	1	1	1	1	1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	1	1	1	1	1	1	1	1
## 17	-1	-1	-1	-1	-1	-1	-1	-1
## 18	-1	-1	-1	-1	-1	-1	-1	0
## 19	1	1	1	1	1	1	1	1
## 20	0	0	0	0	0	0	0	0
## 21	0	0	0	0	0	0	0	0
## 22	1	1	1	1	2	2	2	2
## 23	0	0	0	0	0	0	0	0
## 24	0	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0	0
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	-1	-1	-1	-1	-1	-1	-1	-1
## 29	-1	-1	-1	-1	-1	0	-1	0
## 30	0	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1	-1
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0	0

## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	-1	-1	-1	-1	-1	-1	-1	-1
## 40	1	1	1	1	1	1	1	1
## 41	-1	-1	-1	-1	-1	-1	-1	-1
## 42	1	1	1	1	1	1	1	1
## 43	1	1	1	1	1	1	1	1
## 44	1	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	-1	-1
## 54	1	1	1	1	1	1	1	1
## 55	0	0	0	0	0	0	0	0
## 56	0	0	0	0	0	0	0	0
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	1	1	1	1	1	1	1	1
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	1	1	1	1	1	1	1	1
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	-1	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0

## 69	0	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	-1	-1
## 71	0	0	0	0	0	0	0	0
## 72	1	1	1	1	1	1	1	1
## 73	0	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0	0
## 75	2	2	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	-1	-1	-1	-1	-1	-1	-1	-1
## 78	2	2	2	2	-1	-1	-1	-1
## 79	1	1	1	1	1	1	1	1
## 80	-1	-1	-1	-1	-1	-1	-1	-1
## 81	1	1	1	1	1	1	1	1
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	1	1	1	1	1	1	1	1
## 86	0	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	0	0
## 89	0	0	0	0	0	0	0	0
## 90	-1	-1	-1	-1	-1	-1	-1	-1
## 91	-1	-1	-1	-1	-1	-1	-1	-1
## 92	0	0	0	0	-1	-1	-1	-1
## 93	-1	-1	-1	-1	-1	-1	-1	-1
## 94	0	0	0	0	0	0	0	0
## 95	1	1	1	1	1	1	1	1
## 96	0	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0	0
## 98	0	0	0	0	0	0	0	0
## 99	-1	-1	-1	-1	-1	-1	-1	-1
## 100	1	1	1	1	1	1	1	1

## 16	1	1	1	1	1	1	1	1
## 17	-1	-1	-1	-1	-1	-1	-1	-1
## 18	0	0	0	0	0	0	1	1
## 19	1	1	1	1	1	1	1	1
## 20	0	0	0	0	0	0	0	0
## 21	0	0	0	0	0	0	0	0
## 22	-1	-1	-1	-1	-1	-1	-1	1
## 23	0	0	0	0	0	0	0	0
## 24	0	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0	0
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	-1	-1	-1	1	1	1	1	1
## 29	-1	-1	-1	1	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1	-1
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	2	2	2	2	1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	-1	-1	-1	0	0	0	0	0
## 40	1	1	1	1	1	1	1	1
## 41	-1	-1	-1	-1	-1	-1	-1	0
## 42	1	1	1	1	1	1	1	1
## 43	1	1	1	1	1	1	1	1
## 44	0	0	0	1	1	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0

## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	-1	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	-1	-1
## 54	1	1	1	1	1	1	1	1
## 55	0	0	0	0	0	0	0	0
## 56	0	0	0	0	0	0	0	0
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	1	1	1	1	1	1	1	1
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	1	1	1	1	1	1	1	1
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	-1	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	-1	-1
## 71	0	0	0	0	0	0	0	0
## 72	1	1	1	1	1	1	1	1
## 73	0	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0	0
## 75	0	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	-1	-1	-1	0	0	0	0	0
## 78	-1	-1	-1	1	1	1	1	1
## 79	1	1	1	1	1	1	1	1

## 80	-1	-1	-1	-1	-1	-1	1	1
## 81	1	1	1	1	1	1	1	1
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	1	1	1	1	1	1	1	1
## 86	0	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0	0
## 88	-2	0	0	-2	0	0	0	0
## 89	-2	-1	-1	0	0	0	0	0
## 90	-1	-1	-1	-1	-1	-1	-1	-1
## 91	-1	-1	-1	-1	-1	-1	-1	-1
## 92	-1	-1	-1	0	0	0	0	0
## 93	-1	-1	-1	-1	-1	-1	-1	-1
## 94	0	0	0	0	0	0	0	0
## 95	1	1	1	1	1	1	1	1
## 96	0	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0	0
## 98	0	0	0	0	0	0	0	0
## 99	-1	-1	-1	-1	-1	-1	-1	-1
## 100	1	1	1	1	1	1	1	1
## 101	-1	-1	-1	0	0	0	0	0
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1	-1
## 111	0	0	0	0	0	0	0	0

## 112	-1	-1	-1	-1	-1	-1	-1	-1
## 113	-1	-1	-1	-1	-1	-1	-1	-1
## 114	0	0	0	0	0	0	0	0
## 115	1	1	1	1	1	1	1	1
## 116	-2	0	0	0	0	0	0	0

##	cn_ENHO	cn_CNTFR	cn_CCL19	cn_CCL21	cn_KIAA1045	cn_CA9	cn_HRCT1	cn_MELK
----	---------	----------	----------	----------	-------------	--------	----------	---------

## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	-1	-1	-1	-1	-1	-1	-1	-1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	1	1	1	1	1	1	1	1
## 7	2	2	2	2	2	2	2	2
## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	-1	-1	1	1	1
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	-1	-1	-1	-1	-1	-1	-1	-1
## 13	1	1	1	1	1	1	1	1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	1	1	1	1	1	1	1	1
## 17	-1	-1	-1	-1	-1	-1	-1	-1
## 18	1	1	1	1	1	0	0	0
## 19	1	1	1	1	1	1	1	1
## 20	0	0	0	0	0	0	0	0
## 21	0	0	0	0	0	0	0	0
## 22	1	1	1	1	1	-1	-1	-1
## 23	0	0	0	0	0	0	0	0
## 24	0	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0	0

## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1	-1
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	0	0	0	0	0	0	0	0
## 40	1	1	1	1	1	1	1	1
## 41	0	0	0	0	0	0	0	0
## 42	1	1	1	1	1	1	1	1
## 43	1	1	1	1	1	1	1	1
## 44	1	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	1	-1	1
## 54	1	1	1	1	1	1	1	1
## 55	0	0	0	0	0	0	0	0
## 56	0	0	0	0	0	0	1	0
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0

## 59	1	1	1	1	1	1	1	1
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	1	1	1	1	1	1	1	1
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	-1	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	-1	-1
## 71	0	0	0	0	0	0	0	0
## 72	1	1	1	1	1	1	1	1
## 73	0	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0	0
## 75	0	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1	1
## 79	1	1	1	1	1	1	1	1
## 80	1	1	1	1	1	1	1	1
## 81	1	1	1	1	1	1	1	1
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	1	1	1	1	1	1	1	1
## 86	0	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	0	0
## 89	0	0	0	0	0	0	0	0
## 90	-1	-1	-1	-1	-1	-1	-1	-1

## 91	-1	-1	-1	-1	-1	-1	-1	-1
## 92	0	0	0	0	0	0	0	0
## 93	-1	-1	-1	-1	-1	-1	-1	-1
## 94	0	0	0	0	0	0	0	0
## 95	1	1	1	1	1	1	1	1
## 96	0	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	1	0
## 98	0	0	0	0	0	0	0	0
## 99	-1	-1	-1	-1	-1	-1	-1	-1
## 100	1	1	1	1	1	1	1	1
## 101	0	0	0	0	0	0	0	0
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1	-1
## 111	0	0	0	0	0	0	0	0
## 112	-1	-1	-1	-1	-1	-1	-1	-1
## 113	-1	-1	-1	-1	-1	-1	-1	-1
## 114	0	0	0	0	0	0	0	0
## 115	1	1	1	1	1	1	1	1
## 116	0	0	0	0	0	0	0	0
##	cn_PAX5	cn_CNTNAP3	cn_PGM5	cn_GPR144	cn_LCN2	cn_ENTPD8	cn_CACNA1B	cn_TUBBP5
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	-1	-1	-1	-1	-1	-1	-1	-1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0

## 6	1	2	2	2	-1	-1	-1	-1
## 7	2	2	2	0	0	0	0	0
## 8	-1	-1	-1	1	1	1	1	1
## 9	1	1	1	2	1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0
## 11	0	0	-1	0	0	1	0	0
## 12	-1	-1	-1	-1	-1	-1	-1	-1
## 13	1	1	1	0	0	0	0	0
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	1	1	1	1	1	0	0	0
## 17	-1	-1	-1	-1	-1	-1	-1	-1
## 18	0	-1	-1	1	0	0	0	0
## 19	1	1	1	1	1	1	1	1
## 20	0	0	0	0	0	0	0	0
## 21	0	0	0	0	0	0	0	0
## 22	-1	-1	-1	1	1	1	1	1
## 23	0	0	0	0	0	-1	-1	-1
## 24	0	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0	0
## 26	0	0	0	1	1	1	1	1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1	-1
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	-1	-1	-1	1	1	1	1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0

## 38	-1	-1	-1	0	0	0	0	0
## 39	0	0	0	0	0	0	0	0
## 40	1	1	1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	-1	-1	-1
## 42	1	-1	-1	1	1	0	0	0
## 43	1	1	1	0	0	0	0	0
## 44	1	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	0	0	0	0
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0	0
## 53	1	-1	-1	1	1	1	1	1
## 54	1	1	-1	-1	-1	-1	-1	-1
## 55	0	0	0	1	1	1	1	1
## 56	0	0	1	0	0	0	0	0
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	1	1	1	1	1	1	1	1
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	1	1	1	1	1	1	1	1
## 62	-1	-1	-1	1	1	1	1	1
## 63	-1	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0

## 70	-1	-1	-1	1	1	1	1	1
## 71	0	0	0	0	0	0	0	0
## 72	1	1	1	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0	0
## 75	0	-1	-1	-1	-1	-1	-1	-1
## 76	-1	-1	-1	0	0	-1	-1	-1
## 77	0	0	-1	-1	-1	-1	-1	-1
## 78	1	1	-1	-1	-1	-1	-1	-1
## 79	1	1	1	1	1	1	1	1
## 80	1	-1	-1	-1	-1	-1	-1	-1
## 81	1	1	1	-1	-1	2	2	2
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	1	2	2	0	-2	-1	-1	-1
## 86	0	0	0	-1	-1	0	0	0
## 87	0	0	0	0	0	0	0	0
## 88	0	-1	-1	-1	-1	-1	-1	-1
## 89	0	-1	-1	0	0	0	0	0
## 90	-1	1	-1	1	1	-1	-1	-1
## 91	-1	-1	-1	0	0	0	0	0
## 92	0	0	0	0	0	0	0	0
## 93	-1	-1	-1	-1	-1	-1	-1	-1
## 94	0	0	0	0	0	0	0	0
## 95	1	1	1	1	1	1	1	1
## 96	0	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0	0
## 98	0	-1	-1	0	0	0	0	0
## 99	-1	-1	-1	0	0	0	0	0
## 100	1	1	1	1	1	1	1	1
## 101	0	0	0	0	0	0	0	0

## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	0	0	0	0	0
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	0	0	0	0	0
## 111	0	0	0	0	0	0	0	0
## 112	-1	-1	-1	-1	-1	-1	-1	-1
## 113	-1	-1	-1	-1	-1	-1	-1	-1
## 114	0	0	0	0	0	0	0	0
## 115	1	1	1	0	0	1	1	-1
## 116	0	0	0	0	0	0	0	0

##	cn_AKR1E2	cn_AKR1C1	cn_AKR1C2	cn_CALML5	cn_CALML3	cn_ITIH5	cn_ITIH2
## 1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	1	1	1	1	1	1	1
## 7	1	1	1	1	1	1	1
## 8	1	1	1	1	1	1	1
## 9	2	2	2	2	2	2	2
## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0
## 13	2	2	2	2	2	2	2
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	-1	-1	-1	-1	-1	-1	-1

## 17	-1	-1	-1	-1	-1	-1	-1
## 18	-1	-1	-1	-1	-1	-1	-1
## 19	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-1	-1	-1
## 21	0	0	0	0	0	0	0
## 22	1	1	1	1	1	1	1
## 23	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1
## 27	0	0	0	0	0	0	0
## 28	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0
## 32	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	0	0	0	0	0	0	0
## 36	1	1	1	1	1	1	1
## 37	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	0
## 39	1	1	1	1	1	1	1
## 40	1	1	1	1	1	1	1
## 41	2	2	2	2	2	2	2
## 42	1	1	1	1	1	1	1
## 43	2	2	2	2	2	2	2
## 44	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	0	0	0	0	0	0	0

## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	1	1	1	1	1	1	1
## 52	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1
## 54	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	1	1	1	1	1	1	1
## 60	0	0	0	0	0	0	0
## 61	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1
## 63	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	1	1	1	1	1	1	1
## 71	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0
## 75	0	0	0	0	0	0	0
## 76	-1	-1	-1	0	0	0	0
## 77	0	0	0	0	0	0	0
## 78	2	2	2	2	2	2	2
## 79	0	0	0	0	0	0	0
## 80	2	2	2	2	2	2	2

## 81	2	2	2	2	2	2	2
## 82	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0
## 85	2	2	2	2	2	1	1
## 86	-1	-1	-1	-1	-1	-1	-1
## 87	0	0	0	0	0	0	0
## 88	2	2	2	2	2	2	2
## 89	0	0	0	0	0	0	0
## 90	0	0	0	0	0	0	0
## 91	-1	-1	-1	-1	-1	-1	-1
## 92	-1	-1	-1	-1	-1	-1	-1
## 93	0	0	0	0	0	0	0
## 94	2	2	2	2	2	2	2
## 95	0	0	0	0	0	0	0
## 96	-1	-1	-1	-1	-1	-1	-1
## 97	0	0	0	0	0	0	0
## 98	0	0	0	0	0	0	0
## 99	0	0	0	0	0	0	0
## 100	1	1	1	1	1	1	1
## 101	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0
## 110	1	1	1	1	1	1	1
## 111	1	1	1	1	1	1	1
## 112	0	0	0	0	0	0	0

## 113	1	1	1	1	1	1	1
## 114	0	0	0	0	0	0	0
## 115	1	1	1	1	1	1	1
## 116	0	0	0	0	0	0	0
##	cn_GATA3	cn_MCM10	cn_BEND7	cn_ITGA8	cn_ST8SIA6	cn_MRC1	cn_ARMC3
## 1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	1	1	1	1	1	1	1
## 7	1	1	1	1	1	1	1
## 8	1	1	1	1	1	1	0
## 9	2	2	2	1	1	1	0
## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0
## 13	2	2	2	1	1	1	1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	-1	-1	-1	-1	-1	-1	-1
## 17	-1	-1	-1	-1	-1	-1	-1
## 18	-1	-1	-1	-1	-1	-1	-1
## 19	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-1	-1	-1
## 21	0	0	0	0	0	0	0
## 22	1	1	1	1	1	1	1
## 23	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1
## 27	0	0	0	0	0	0	0

## 28	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0
## 32	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	0	0	0	0	0	0	0
## 36	1	1	1	1	1	1	1
## 37	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	0
## 39	1	1	1	1	1	1	1
## 40	1	1	1	1	1	1	1
## 41	2	2	2	1	1	0	0
## 42	1	1	1	1	1	1	1
## 43	2	2	2	2	2	2	2
## 44	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	0	0	0	0	0	0	0
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	1	1	1	1	1	1	1
## 52	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1
## 54	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	1	1	1	1	1	1	1

## 60	0	0	0	0	0	0	0
## 61	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1
## 63	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	1	1	1	1	1	1	1
## 71	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0
## 75	0	0	0	0	0	0	0
## 76	0	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0
## 78	2	2	2	2	2	2	2
## 79	0	0	0	0	0	0	0
## 80	2	2	2	2	2	2	2
## 81	2	2	2	2	1	1	1
## 82	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0
## 85	1	1	1	1	1	1	1
## 86	-1	-1	-1	-1	-1	-1	-1
## 87	0	0	0	0	0	0	0
## 88	2	1	1	1	1	1	1
## 89	0	0	0	0	0	0	0
## 90	0	0	0	0	0	0	0
## 91	-1	1	1	1	1	1	1

## 92	-1	-1	-1	-1	-1	-1	-1
## 93	0	0	0	0	0	0	0
## 94	2	2	2	2	1	1	-1
## 95	0	0	0	0	0	0	0
## 96	-1	-1	-1	-1	-1	-1	-1
## 97	0	0	0	0	0	0	0
## 98	0	0	0	0	0	0	0
## 99	0	0	0	0	0	0	0
## 100	1	1	1	1	1	1	1
## 101	-1	0	1	0	2	2	2
## 102	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0
## 107	0	-2	-2	-2	-2	-2	-2
## 108	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0
## 110	1	1	1	1	1	1	1
## 111	1	1	1	-1	-1	-1	-1
## 112	0	0	0	0	0	0	0
## 113	1	1	1	1	1	1	1
## 114	0	0	0	0	0	0	0
## 115	1	1	1	1	1	1	1
## 116	0	0	0	0	0	0	0
##	cn_C10orf107	cn_SYNP02L	cn_DUSP13	cn_PLAC9	cn_SFTPA2	cn_MAT1A	cn_DYDC2
## 1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0
## 3	-1	-1	1	-1	-1	-1	-1
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0

## 7	1	1	1	1	1	1	1
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	2	1	1	-1	-1	1	1
## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0
## 12	2	1	1	1	1	2	2
## 13	1	1	1	1	1	1	1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	-1	-1	-1	-1	-1	-1	-1
## 17	-1	-1	-1	-1	-1	-1	-1
## 18	-1	-1	-1	-1	-1	-1	-1
## 19	0	0	0	0	0	0	0
## 20	0	0	0	0	0	0	0
## 21	0	0	0	0	0	0	0
## 22	-1	-1	-1	-1	-1	-1	-1
## 23	0	0	0	0	0	0	0
## 24	1	0	-2	0	0	0	0
## 25	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1
## 27	0	0	0	0	0	0	0
## 28	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0
## 32	-1	-1	-1	-1	-1	-1	-1
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	0	0	0	0	0	0	0
## 36	1	1	1	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1

## 39	0	0	0	0	0	0	0
## 40	1	1	1	1	1	1	1
## 41	-1	-1	-1	-1	-1	-1	-1
## 42	1	1	1	1	1	1	1
## 43	1	1	1	1	1	1	1
## 44	-1	-1	-1	-1	-1	-1	-1
## 45	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	0	0	0	0	0	0	0
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0
## 53	-2	-2	-2	-2	-2	-2	-2
## 54	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0
## 56	-1	-1	0	2	2	1	1
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0
## 60	0	0	0	0	0	0	0
## 61	0	0	0	0	0	0	0
## 62	-1	2	2	1	1	1	1
## 63	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	-1

## 71	0	0	0	0	0	0	0
## 72	-1	-1	-1	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0
## 75	0	0	0	0	0	0	0
## 76	-2	1	0	1	1	1	1
## 77	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1
## 79	0	0	0	0	0	0	0
## 80	1	-1	-1	-1	-1	-1	-1
## 81	1	-1	-1	-1	-1	-1	-1
## 82	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0
## 85	1	1	1	1	1	1	1
## 86	-1	-1	-1	-1	-1	-1	-1
## 87	0	0	0	0	0	0	0
## 88	1	1	2	1	1	1	1
## 89	0	0	0	0	0	0	0
## 90	0	0	0	0	0	0	0
## 91	1	1	1	1	1	1	1
## 92	-1	-1	-1	-1	-1	-1	-1
## 93	0	0	0	0	0	0	0
## 94	1	1	1	1	1	1	1
## 95	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0
## 98	0	0	0	0	0	0	0
## 99	0	0	0	0	0	0	0
## 100	1	1	1	1	1	1	1
## 101	0	0	0	0	0	0	0
## 102	0	0	0	0	0	0	0

## 103	0	0	0	0	0	0	0	
## 104	-1	-1	-1	-1	-1	-1	-1	
## 105	0	0	0	0	0	0	0	
## 106	0	0	0	0	0	0	0	
## 107	0	0	0	0	0	0	0	
## 108	0	0	0	0	0	0	0	
## 109	0	0	0	0	0	0	0	
## 110	-1	0	0	0	0	0	0	
## 111	-1	-1	-1	-1	-1	-1	-1	
## 112	0	0	0	0	0	0	0	
## 113	1	1	1	1	1	1	1	
## 114	0	0	0	0	0	0	0	
## 115	-1	-1	-1	-1	-1	-1	-1	
## 116	0	0	0	0	0	0	0	
##	cn_C10orf90	cn_FAM196A	cn_KNDC1	cn_SYCE1	cn_WT1	cn_ELF5	cn_EHF	cn_SLC1A2
## 1	1	1	1	1	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	-1	1	1	1	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	1	1	1	1
## 7	1	1	1	1	0	0	0	0
## 8	-1	-1	-2	-2	-1	-1	-1	-1
## 9	2	2	1	1	1	2	2	2
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	1	1	1	1	0	0	0	0
## 13	1	1	1	1	1	1	1	1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	-1	-1	-1	-1	0	0	0	0
## 17	-1	-1	-1	-1	1	1	1	1

## 18	-1	-1	-1	-1	0	0	0	0
## 19	0	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	0	0	0	0
## 21	0	0	0	0	-1	-1	-1	-1
## 22	-1	-1	-1	-1	-1	-1	2	-1
## 23	0	0	0	0	-1	-1	-1	-1
## 24	-2	-2	-2	-2	2	2	2	2
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	0	0	0	0
## 27	0	0	0	0	1	1	1	1
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	1	1	1	1
## 30	0	0	0	0	0	0	0	0
## 31	0	0	0	0	1	1	1	1
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	0	0	0	0	1	1	1	-1
## 36	0	0	0	0	2	2	2	2
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	0	0	0	0
## 39	0	0	0	0	0	0	0	0
## 40	1	1	1	1	-1	-1	-1	-1
## 41	-1	-1	-1	-1	1	1	1	1
## 42	1	1	1	1	1	1	1	1
## 43	1	1	1	1	1	1	1	1
## 44	-1	-1	-1	-1	1	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	0	0	0	0	0	0	0	0
## 49	0	0	0	0	0	0	0	0

## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	1	1	1	1
## 52	0	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	-1	-1
## 54	0	0	0	0	0	0	0	0
## 55	0	0	0	0	2	0	0	1
## 56	-1	-1	-1	-1	-1	-1	-1	-1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0
## 60	0	0	0	0	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0	0
## 62	1	1	-1	-1	1	1	1	1
## 63	-1	-1	-1	-1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	1	1	1	1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	0	0	0	0
## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	0	0	0	0	1	1	1	1
## 75	0	0	0	0	-1	-1	-1	-1
## 76	-2	-2	-2	-2	1	1	1	1
## 77	0	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1	-1
## 79	0	0	0	0	0	0	0	0
## 80	1	1	1	1	1	-1	1	-1
## 81	-1	-1	-1	-1	-1	-1	-1	-1

## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0	0
## 85	1	1	1	1	0	0	0	0
## 86	-1	-1	-1	-1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	0	0	-1	-1	0	0	0	0
## 89	0	0	0	0	0	0	0	0
## 90	0	0	0	0	-1	-1	-1	-1
## 91	0	1	1	1	1	1	1	1
## 92	-1	-1	-1	-1	0	0	0	0
## 93	0	0	0	0	1	1	1	1
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	1	1	1	1
## 96	-1	-1	-1	-1	0	0	0	0
## 97	0	0	0	0	0	0	0	0
## 98	0	0	0	0	0	0	0	0
## 99	0	0	0	0	-1	-1	-1	-1
## 100	1	1	1	1	0	0	0	0
## 101	0	0	0	0	0	0	0	0
## 102	0	0	0	0	1	1	1	1
## 103	0	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	0	0	0	0
## 105	0	0	0	0	0	0	0	0
## 106	0	0	0	0	1	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	0	0	0	0	1	-1	-1	-1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1	-1
## 111	-1	-1	-1	-1	-1	-1	-1	-1
## 112	2	2	2	2	0	0	0	0
## 113	-1	-1	-1	-1	-1	1	1	1

## 114	0	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0	0
##	cn_LRRC4C	cn_CTSW	cn_SPDYC	cn_ZNHIT2	cn_SYT12	cn_ACY3	cn_ALDH3B2	cn_GAL
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	1	1	1	-1	-1	-1	-1
## 4	0	0	0	0	0	2	2	-1
## 5	0	0	0	0	0	0	0	0
## 6	1	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	-1	1	1	1	1	1	1	1
## 9	2	1	1	1	0	1	1	1
## 10	0	2	2	2	2	2	2	2
## 11	0	0	0	0	0	0	0	0
## 12	1	-1	-1	-1	1	1	1	-1
## 13	1	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1	1
## 18	0	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0	0
## 20	0	1	1	1	1	1	1	1
## 21	-1	-1	-1	-1	-1	-1	-1	-1
## 22	-1	1	1	1	-1	-1	-1	-1
## 23	-1	0	0	0	0	0	0	0
## 24	1	1	1	1	1	2	2	1
## 25	0	0	0	0	0	0	0	0
## 26	0	-1	-1	-1	1	1	1	-1
## 27	1	1	1	1	1	1	1	1
## 28	1	0	0	0	-1	-1	-1	-1

## 29	1	1	1	1	1	1	1	1
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	0	1	1	1	1	1	1	1
## 36	2	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	0	0
## 39	0	0	0	0	0	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	1	0	0	0	0	0	0	0
## 42	1	1	1	1	1	1	1	1
## 43	1	0	0	0	0	0	0	0
## 44	1	-1	-1	-1	-1	-1	-1	-1
## 45	1	2	2	2	2	1	1	2
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	0	0	0	0	0	0	0	0
## 49	0	0	0	0	1	1	1	1
## 50	0	0	0	0	0	0	0	0
## 51	1	1	1	1	1	1	1	1
## 52	0	0	0	0	2	1	1	0
## 53	-1	0	0	0	1	1	1	0
## 54	0	0	0	0	0	0	0	0
## 55	0	0	0	0	1	1	1	1
## 56	-1	1	1	1	1	1	1	1
## 57	0	0	0	0	2	2	2	0
## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0
## 60	-1	-1	-1	-1	-1	1	1	2

## 61	0	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1	1
## 63	-1	-2	-2	-2	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	0	-1	-1	-1	1	1	1	1
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	0	-1	-1	-1	-1	-1	-1	-1
## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	2	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	-1	-1	-1	-1	-1	-1	-1	-1
## 76	1	1	1	1	1	1	1	1
## 77	0	0	0	0	0	0	0	0
## 78	-1	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0	0
## 80	-1	-1	-1	-1	-1	-1	-1	-1
## 81	-1	-1	-1	-1	-1	-1	-1	-1
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0	0
## 85	0	0	0	0	0	0	0	0
## 86	1	-1	-1	-1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	0	0
## 89	0	0	0	0	0	0	0	0
## 90	-1	-1	-1	-1	-1	-1	-1	-1
## 91	1	1	1	1	1	1	1	1
## 92	0	0	0	0	0	0	0	0

## 93	1	-1	-1	-1	-1	-1	-1	-1
## 94	0	0	0	0	0	0	0	0
## 95	1	1	1	1	1	1	1	1
## 96	0	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0	0
## 98	0	0	0	0	0	0	0	0
## 99	1	-1	-1	-1	-1	-1	-1	1
## 100	0	0	0	0	0	0	0	0
## 101	0	1	1	1	2	2	2	2
## 102	1	-1	-1	-1	-1	-1	-1	-1
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	0	1	1	1	1	1	1	1
## 106	1	-1	-1	-1	1	1	1	1
## 107	0	0	0	0	0	0	0	0
## 108	-1	2	2	2	2	2	2	-1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	1	1	1	1
## 111	-1	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0	0
## 113	1	1	1	1	1	1	1	2
## 114	0	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0	0

##	cn_MYEOV	cn_FOLR1	cn_PLEKHB1	cn_CHRD2	cn_MOGAT2	cn_DGAT2	cn_WNT11
## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	-1	-1	1	1	2	2	2
## 4	2	2	2	2	2	2	2
## 5	0	0	0	0	0	0	0
## 6	2	2	2	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0

## 8	1	1	1	1	1	1	1
## 9	1	-1	-1	-1	0	0	2
## 10	2	-1	-1	-1	-1	-1	2
## 11	0	0	0	0	0	0	0
## 12	2	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0
## 17	2	-1	-1	-1	-1	-1	-1
## 18	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0
## 20	1	1	1	1	1	1	1
## 21	-1	-1	-1	-1	-1	-1	-1
## 22	-1	1	1	1	1	1	1
## 23	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0
## 26	1	-1	-1	-1	-1	-1	-1
## 27	1	1	1	1	1	1	1
## 28	2	2	2	2	2	2	2
## 29	1	-1	-1	-1	1	1	1
## 30	0	0	0	0	2	2	2
## 31	1	1	1	1	1	1	1
## 32	0	0	0	0	0	0	0
## 33	0	2	2	2	2	2	2
## 34	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	0
## 39	1	1	1	1	1	1	1

## 40	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0
## 42	1	1	1	1	1	1	1
## 43	0	0	0	0	0	0	0
## 44	-1	-1	-1	-1	-1	-1	-1
## 45	2	2	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	0	0	-1	-1	-1	-1	-1
## 49	1	0	-1	-1	-1	-1	-1
## 50	0	0	0	0	0	0	0
## 51	1	1	2	2	2	2	2
## 52	2	1	1	1	2	2	1
## 53	0	0	0	0	0	0	0
## 54	0	0	0	0	0	0	0
## 55	1	1	0	0	0	0	0
## 56	1	1	1	1	1	1	1
## 57	2	-1	-1	-1	-1	-1	-1
## 58	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0
## 60	2	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0
## 62	1	-1	1	-1	-1	-1	-1
## 63	2	1	1	1	-1	-1	-1
## 64	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1
## 66	1	1	-1	-1	-1	-1	-1
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	-1
## 71	0	0	-1	-1	-1	-1	-1

## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1
## 75	-1	-2	-2	-2	-2	-2	0
## 76	1	1	1	1	1	1	1
## 77	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0
## 80	-1	-1	-1	-1	1	1	1
## 81	-1	-1	-1	-1	-1	-1	-1
## 82	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0
## 85	0	0	0	0	0	0	0
## 86	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	0
## 89	0	0	0	0	0	0	0
## 90	-1	1	0	0	0	0	0
## 91	1	1	1	1	1	1	1
## 92	0	0	0	0	0	0	0
## 93	2	-1	2	2	2	2	2
## 94	2	0	0	0	0	0	0
## 95	1	1	1	1	1	1	1
## 96	0	1	2	2	2	2	2
## 97	0	0	1	1	1	1	1
## 98	0	0	0	0	0	0	0
## 99	1	-1	-1	-1	-1	-1	-1
## 100	0	0	0	0	0	0	0
## 101	2	-1	-1	-1	-1	-1	-1
## 102	1	-1	-1	-1	-1	-1	-1
## 103	0	0	0	0	0	0	0

## 104	0	0	0	0	0	0	0	
## 105	1	0	0	0	0	0	0	
## 106	1	1	1	1	1	1	1	
## 107	0	0	0	0	0	0	0	
## 108	2	1	0	-1	-1	-1	-1	
## 109	0	0	0	0	0	0	0	
## 110	2	0	-1	-1	-1	-1	-1	
## 111	0	-1	-1	-1	-1	-1	-1	
## 112	0	0	0	0	-1	-1	-1	
## 113	1	-1	-1	-1	-1	-1	-1	
## 114	0	0	0	0	0	0	0	
## 115	-1	-1	-1	-1	-1	-1	-1	
## 116	0	0	0	0	0	0	0	
##	cn_KCTD14	cn_THRSP	cn_FAM181B	cn_PGR	cn_MMP7	cn_MMP10	cn_MMP1	cn_MMP3
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	2	2	-1	2	2	2	2	2
## 4	2	2	-1	-1	-1	-1	-1	-1
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	1	1	1	1	-1
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	1	-1	-1	-1	-1
## 9	2	2	-1	-1	-1	-1	-1	-1
## 10	2	2	-1	-1	-1	-1	-1	-1
## 11	0	0	0	0	0	0	0	0
## 12	2	2	1	-1	-1	-1	-1	-1
## 13	-1	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	-1	-1	-1	-1	-1	-1	-1	-1
## 18	0	0	-2	-2	-2	-2	-2	-2

## 19	0	0	0	0	0	0	0	0
## 20	1	1	1	-1	-1	-1	-1	-1
## 21	-1	-1	-1	-1	-1	-1	-1	-1
## 22	1	1	-1	2	2	1	1	1
## 23	0	0	0	0	0	0	0	0
## 24	0	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	1	1	1	1	1	1	1	1
## 28	2	2	2	-1	-1	-1	-1	-1
## 29	-1	-1	-1	-1	-1	-1	-1	-1
## 30	2	2	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	0	0	0	0	0	0	0	0
## 33	2	2	-1	-1	-1	-1	-1	-1
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	2	2	0	0	0	0	0	0
## 37	0	0	-1	-1	-1	-1	-1	-1
## 38	0	0	0	0	0	0	0	0
## 39	1	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0	0
## 42	1	1	1	-1	-1	-1	-1	-1
## 43	0	0	0	0	0	0	0	0
## 44	-1	-1	-1	-1	-1	-1	-1	-1
## 45	2	2	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	-1	-1	-1	-1	-1	-1	-1	-1
## 50	0	0	0	0	0	0	0	0

## 51	2	2	-1	-1	-1	-1	-1	-1
## 52	-1	-1	-1	-1	-1	-1	-1	-1
## 53	0	0	0	0	0	0	0	0
## 54	0	0	0	0	0	0	0	0
## 55	-1	-1	-1	-1	-1	-1	-1	-1
## 56	1	1	1	1	1	1	1	1
## 57	-1	-1	-1	-1	-1	-1	-1	-1
## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	-1	-1	-1	-1	-1
## 60	-1	-1	-1	-1	1	1	1	1
## 61	0	0	0	-1	-1	-1	-1	-1
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	2	2	2	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	-1	-1	-1	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	-1	-1	1	-1	-1	-1	-1	-1
## 71	0	0	0	-1	-1	-1	-1	-1
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	0	0	0	0	-1	-1	-1
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0	0
## 80	-1	-1	-1	-1	1	-1	-1	-1
## 81	2	2	2	-1	-1	-1	-1	-1
## 82	-1	-1	-1	-1	-1	-1	-1	-1

## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0	0
## 85	0	0	0	0	0	0	0	0
## 86	-1	-1	-1	-1	-1	-1	-1	-1
## 87	0	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	0	0
## 89	0	0	0	0	0	0	0	0
## 90	1	1	1	-1	-1	-1	-1	-1
## 91	1	1	1	1	1	1	1	1
## 92	0	0	0	0	0	0	0	0
## 93	2	2	-1	-1	-1	-1	-1	-1
## 94	0	0	0	-1	-1	-1	-1	-1
## 95	1	1	1	1	1	1	1	1
## 96	2	2	-1	-1	1	1	1	1
## 97	1	1	0	0	0	0	0	0
## 98	0	0	0	-1	-1	-1	-1	-1
## 99	-1	-1	-1	-1	-1	-1	-1	-1
## 100	0	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1	-1
## 102	-1	-1	-1	-1	-1	-1	-1	-1
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	0	0	0	-1	-1	-1	-1	-1
## 106	1	1	1	1	-1	-1	-1	-1
## 107	0	0	0	-2	-2	-2	-2	-2
## 108	-1	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1	-1
## 111	-1	-1	-1	-1	-1	-1	-1	-1
## 112	0	0	0	-1	-1	-1	-1	-1
## 113	-1	-1	-1	-1	-1	-1	-1	-1
## 114	0	0	0	0	0	0	0	0

## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0	0
##	cn_MMP12	cn_MMP13	cn_GRIA4	cn_C11orf92	cn_POU2AF1	cn_CRYAB	cn_NCAM1	cn_DRD2
## 1	0	0	0	0	0	0	0	0
## 2	0	0	-1	-1	-1	-1	-1	-1
## 3	2	2	2	-1	-1	-1	-1	-1
## 4	-1	-1	-1	-1	-1	-1	-1	-1
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	-1	-1	-1	-1	-1
## 10	-1	-1	-1	-1	-1	-1	-1	-1
## 11	0	0	0	0	0	0	0	0
## 12	-1	-1	-1	-1	-1	-1	-1	-1
## 13	-1	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	-1	-1	-1	-1	-1	-1	-1	-1
## 18	-2	-2	-2	-2	-2	-2	0	0
## 19	0	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-1	-1	-1	-1
## 21	-1	-1	-1	-1	-1	-1	-1	-1
## 22	1	1	1	1	1	1	1	1
## 23	0	0	0	0	0	0	0	0
## 24	0	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	1	1	1	1	1	1	1	1
## 28	-1	-1	-1	-1	-1	-1	-1	-1
## 29	-1	-1	-1	-1	-1	-1	-1	-1

## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	0	0	0	0	0	0	0	0
## 33	-1	-1	-1	-1	-1	-1	-1	-1
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	0
## 37	-1	-1	-1	-1	-1	-1	-1	-1
## 38	0	0	0	0	0	0	0	0
## 39	1	1	1	1	1	0	0	0
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0	0
## 42	-1	-1	-1	-1	-1	-1	-1	-1
## 43	0	0	0	0	0	0	0	0
## 44	-1	-1	-1	-1	-1	-1	-1	-1
## 45	-1	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	-1	-1	-1	-1	-1	-1	-1	-1
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	-1	-1	-1	-1	-1	-1	-1	-1
## 53	0	0	0	0	0	0	0	0
## 54	0	0	0	0	0	0	0	0
## 55	-1	-1	-1	-1	-1	-1	-1	-1
## 56	1	1	1	1	1	1	1	1
## 57	-1	-1	-1	-1	-1	-1	-1	-1
## 58	0	0	0	0	0	0	0	0
## 59	-1	-1	-1	-1	-1	-1	-1	-1
## 60	1	1	-1	-1	-1	-1	-1	-1
## 61	-1	-1	-1	-1	-1	-1	-1	-1

## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	-1	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	0	0	-1	-1	-1	-1	-1	-1
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	-1	-1
## 71	-1	-1	-1	-1	-1	-1	-1	-1
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	-1	-1	-1	-1	-1	-1	-1	-1
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0	0
## 80	-1	-1	-1	-1	-1	-1	-1	-1
## 81	-1	-1	-1	-1	-1	-1	-1	-1
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0	0
## 85	0	0	0	0	0	0	0	0
## 86	-1	-1	-1	-1	-1	-1	-1	-1
## 87	0	0	0	0	0	0	0	0
## 88	0	0	0	-1	-1	-1	-1	-1
## 89	0	0	0	0	0	0	0	0
## 90	-1	-1	-1	-1	-1	-1	-1	-1
## 91	1	1	1	1	1	1	1	1
## 92	0	0	0	0	0	0	0	0
## 93	-1	-1	-1	-1	-1	-1	-1	-1

## 94	-1	-1	-1	-1	-1	-1	-1	-1
## 95	1	1	1	1	1	1	1	1
## 96	1	1	-1	-1	-1	-1	-1	-1
## 97	0	0	0	0	0	0	0	0
## 98	-1	-1	-1	-1	-1	-1	-1	-1
## 99	-1	-1	-1	-1	-1	-1	-1	-1
## 100	0	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1	-1
## 102	-1	-1	-1	-1	-1	-1	-1	-1
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	-1	-1	-1	-1	-1	-1	-1	-1
## 106	-1	-1	-1	-1	-1	-1	-1	-1
## 107	-2	-2	-2	-2	-2	-2	-2	-2
## 108	-1	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1	-1
## 111	-1	-1	-1	-1	-1	-1	-1	-1
## 112	-1	-1	-1	-1	-1	-1	-1	-1
## 113	-1	-1	-1	-1	-1	-1	-1	-1
## 114	0	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0	0

##	cn_ZBTB16	cn_DSCAML1	cn_TMPRSS4	cn_SCN2B	cn_CD3E	cn_CD3D	cn_CD3G	cn_TTC36
## 1	0	0	0	0	0	0	0	0
## 2	-1	-1	-1	-1	-1	-1	-1	-1
## 3	-1	-1	-1	-1	-1	-1	-1	-1
## 4	-1	-1	-1	-1	-1	-1	-1	-1
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	1	1	1	1	1	1

## 9	-1	-1	-1	-1	-1	-1	-1	-1
## 10	-1	-1	-1	-1	-1	-1	-1	-1
## 11	0	0	0	0	0	0	0	0
## 12	-1	-1	-1	-1	-1	-1	-1	-1
## 13	-1	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	-1	-1	-1	-1	-1	-1	-1	-1
## 18	0	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-1	-1	-1	-1
## 21	-1	-1	-1	-1	-1	-1	-1	-1
## 22	1	1	1	1	1	1	1	1
## 23	0	0	0	0	0	0	0	0
## 24	0	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	1	1	1	1	1	1	1	1
## 28	-1	-1	-1	-1	-1	-1	-1	-1
## 29	-1	-1	-1	-1	-1	-1	-1	-1
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	0	0	0	0	0	0	0	0
## 33	-1	-1	-1	-1	-1	-1	-1	-1
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	0
## 37	-1	-1	-1	-1	-1	-1	-1	-1
## 38	0	0	0	0	0	0	0	0
## 39	0	-2	0	0	0	0	0	0
## 40	-1	-1	-1	-1	-1	-1	-1	-1

## 41	0	0	0	0	0	0	0	0
## 42	-1	-1	-1	-1	-1	-1	-1	-1
## 43	0	0	0	0	0	0	0	0
## 44	-1	-1	-1	-1	-1	-1	-1	-1
## 45	-1	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	-1	-1	-1	-1	-1	-1	-1	-1
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	-1	-1	-1	-1	-1	-1	-1	-1
## 53	0	0	0	0	0	0	0	0
## 54	0	0	0	0	0	0	0	0
## 55	-1	-1	-1	-1	-1	-1	-1	-1
## 56	1	1	1	1	1	1	1	1
## 57	-1	-1	-1	-1	-1	-1	-1	-1
## 58	0	0	0	0	0	0	0	0
## 59	-1	-1	-1	-1	-1	-1	-1	-1
## 60	-1	1	2	2	2	-1	-1	-1
## 61	-1	-1	-1	-1	-1	-1	-1	-1
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	-1	2	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	-1	-1	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	-1	-1
## 71	-1	-1	-1	-1	-1	-1	-1	-1
## 72	0	0	0	0	0	0	0	0

## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	-1	-1	-1	-1	-1	-1	-1	-1
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0	0
## 80	-1	-1	-1	-1	-1	-1	-1	-1
## 81	-1	-1	-1	-1	-1	-1	-1	-1
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0	0
## 85	0	0	0	0	0	0	0	0
## 86	-1	-1	-1	-1	-1	-1	-1	-1
## 87	0	0	0	0	0	0	0	0
## 88	-1	0	-1	-1	-1	-1	-1	-1
## 89	0	0	0	0	0	0	0	0
## 90	-1	-1	-1	-1	-1	-1	-1	-1
## 91	1	1	1	1	1	1	1	1
## 92	0	0	0	0	0	0	0	0
## 93	-1	-1	-1	-1	-1	-1	-1	-1
## 94	-1	-1	-1	-1	-1	-1	-1	-1
## 95	1	1	1	1	1	1	1	1
## 96	-1	-1	-1	-1	-1	-1	-1	-1
## 97	0	0	0	0	0	0	0	0
## 98	-1	-1	-1	-1	-1	-1	-1	-1
## 99	-1	-1	-1	-1	-1	-1	-1	-1
## 100	0	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1	-1
## 102	-1	-1	-1	-1	-1	-1	-1	-1
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0

## 105	-1	-1	-1	-1	-1	-1	-1	-1
## 106	-1	-1	-1	-1	-1	-1	-1	-1
## 107	-2	-2	-2	-2	-2	-2	-2	-2
## 108	-1	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1	-1
## 111	-1	-1	-1	-1	-1	-1	-1	-1
## 112	-1	-1	-1	-1	-1	-1	-1	-1
## 113	-1	-1	-1	-1	-1	-1	-1	-1
## 114	0	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0	0

##	cn_CXCR5	cn_TRIM29	cn_GRIK4	cn_VSIG2	cn_HEPACAM	cn_HEPN1	cn_PKNOX2	cn_BARX2
## 1	0	0	0	0	0	0	0	0
## 2	-1	-1	-1	-1	-1	-1	-1	-1
## 3	-1	-1	-1	-1	-1	-1	-1	0
## 4	-1	-1	-1	-1	-1	-1	-1	-1
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0	0
## 8	1	-1	-1	-1	-1	-1	-1	-1
## 9	-1	0	0	-1	-1	-1	-1	1
## 10	-1	-1	-1	-1	-1	-1	-1	-1
## 11	0	0	0	0	0	0	0	0
## 12	-1	-1	-1	-1	-1	-1	-1	-1
## 13	-1	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	-1	-1	-1	-1	-1	-1	-1	-1
## 18	0	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0	0

## 20	-1	-1	-1	-1	-1	-1	-1	-1
## 21	-1	-1	-1	-1	-1	-1	-1	-1
## 22	1	1	1	1	1	1	1	1
## 23	0	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	1	1	1	1	1	1	1	1
## 28	-1	-1	-1	-1	-1	-1	-1	-1
## 29	-1	-1	-1	-1	-1	-1	-1	-1
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	0	0	0	0	0	0	0	0
## 33	-1	-1	-1	-1	-1	-1	-1	-1
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	0
## 37	-1	-1	-1	-1	-1	-1	-1	-1
## 38	0	0	0	0	0	0	0	0
## 39	0	0	0	0	0	0	0	0
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0	0
## 42	-1	-1	-1	-1	-1	-1	-1	-1
## 43	0	0	0	0	0	0	0	0
## 44	-1	-1	-1	-1	-1	-1	-1	-1
## 45	-1	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	-1	-1	-1	-1	-1	-1	-1	-1
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1	-1

## 52	-1	-1	-1	-1	-1	-1	-1	-1
## 53	0	0	0	0	0	0	0	0
## 54	0	0	0	0	0	0	0	0
## 55	-1	-1	-1	-1	-1	-1	-1	-1
## 56	1	1	1	1	1	1	1	1
## 57	-1	-1	-1	-1	-1	-1	-1	-1
## 58	0	0	0	0	0	0	0	0
## 59	-1	-1	-1	-1	-1	-1	-1	-1
## 60	-1	-1	-1	-1	-1	-1	-1	1
## 61	-1	-1	-1	-1	-1	-1	-1	-1
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	2	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	0	-1	-1	-1	-1	-1	-1	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	-1	-1
## 71	-1	-1	-1	-1	-1	-1	-1	-1
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	-1	-1	-1	-1	-1	-1	-1	-1
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	1	1	1	-1	-1	-1	-1	-1
## 79	0	0	0	0	0	0	0	0
## 80	-1	-1	-1	-1	-1	-1	-1	-1
## 81	-1	-1	-1	-1	-1	-1	-1	-1
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1	-1

## 84	0	0	0	0	0	0	0	0
## 85	0	0	0	0	0	0	0	0
## 86	-1	-1	-1	-1	-1	-1	-1	-1
## 87	0	0	0	0	0	0	0	0
## 88	-1	-1	-1	-1	-1	-1	-1	-1
## 89	0	0	0	0	0	0	0	0
## 90	-1	-1	-1	-1	-1	-1	-1	1
## 91	1	1	1	1	1	1	1	1
## 92	0	0	0	0	0	0	0	0
## 93	-1	-1	-1	-1	-1	-1	-1	0
## 94	-1	-1	-1	-1	-1	-1	-1	-1
## 95	1	1	1	1	1	1	1	1
## 96	-1	-1	-1	-1	-1	-1	-1	-1
## 97	0	0	0	0	0	0	0	0
## 98	-1	-1	-1	-1	-1	-1	-1	-1
## 99	-1	-1	-1	-1	-1	-1	-1	-1
## 100	0	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1	-1
## 102	-1	-1	-1	-1	-1	-1	-1	-1
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	-1	-1	-1	-1	-1	-1	-1	0
## 106	-1	-1	-1	-1	-1	-1	-1	-1
## 107	-2	-2	-2	-2	-2	-2	-2	-2
## 108	-1	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1	-1
## 111	-1	-1	-1	-1	-1	-1	-1	-1
## 112	-1	-1	-1	-1	-1	-1	-1	-1
## 113	-1	-1	-1	-1	-1	-1	-1	-1
## 114	0	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1	-1

## 116	0	0	0	0	0	0	0
##	cn_TM45B	cn_ADAMTS8	cn_ADAMTS15	cn_IGSF9B	cn_B3GAT1	cn_GLB1L2	cn_B4GALNT3
## 1	0	0	0	0	0	0	1
## 2	-1	-1	-1	-1	-1	-1	1
## 3	0	-1	-1	-1	-1	-1	2
## 4	-1	-1	-1	-1	-1	-1	0
## 5	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	2
## 9	-1	-1	-1	-1	-1	-1	0
## 10	-1	-1	-1	-1	-1	-1	0
## 11	0	0	0	0	0	0	0
## 12	-1	-1	-1	-1	-1	-1	0
## 13	-1	-1	-1	-1	-1	-1	0
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	1
## 17	-1	-1	-1	-1	-1	-1	0
## 18	0	0	0	0	0	0	1
## 19	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-1	-1	0
## 21	-1	-1	-1	-1	-1	-1	1
## 22	1	1	1	1	1	1	2
## 23	0	0	0	0	0	0	0
## 24	1	1	1	0	0	0	1
## 25	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1
## 27	1	1	1	1	1	1	0
## 28	-1	-1	-1	-1	-1	-1	0
## 29	-1	-1	-1	-1	-1	-1	0
## 30	0	0	0	0	0	0	0

## 31	1	1	1	1	1	1	1
## 32	0	0	0	0	0	0	-1
## 33	-1	-1	-1	-1	-1	-1	0
## 34	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0
## 37	-1	-1	-1	-1	-1	-1	0
## 38	0	0	0	0	0	0	0
## 39	0	0	0	0	0	0	0
## 40	-1	-1	-1	-1	-1	-1	0
## 41	0	0	0	0	0	0	-1
## 42	-1	-1	-1	-1	-1	-1	0
## 43	0	0	0	0	0	0	-2
## 44	-1	-1	-1	-1	-1	-1	0
## 45	-1	-1	-1	-1	-1	-1	0
## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	-1	-1	-1
## 49	-1	-1	-1	-1	-1	-1	0
## 50	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	2
## 52	-1	-1	-1	-1	-1	-1	-1
## 53	0	0	0	0	0	0	0
## 54	0	0	0	0	0	0	1
## 55	-1	-1	-1	-1	-1	-1	0
## 56	1	1	1	1	1	1	1
## 57	-1	-1	-1	-1	-1	-1	0
## 58	0	0	0	0	0	0	0
## 59	-1	-1	-1	-1	-1	-1	1
## 60	2	2	2	2	2	2	0
## 61	-1	-1	-1	-1	-1	-1	0
## 62	-1	-1	-1	-1	-1	-1	1

## 63	-1	-1	-1	-1	-1	-1	0
## 64	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	-1
## 69	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	-1
## 71	-1	-1	-1	-1	-1	-1	-1
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1
## 75	-1	-1	-1	-1	-1	-1	1
## 76	-1	-1	-1	-1	1	1	-1
## 77	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1
## 79	0	0	0	0	0	0	0
## 80	-1	1	1	-1	-1	-1	1
## 81	-1	-1	-1	-1	-1	-1	1
## 82	-1	-1	-1	-1	-1	-1	1
## 83	-1	-1	-1	-1	-1	-1	0
## 84	0	0	0	0	0	0	0
## 85	0	0	0	-2	-2	-2	-1
## 86	-1	-1	-1	-1	-1	-1	1
## 87	0	0	0	0	0	0	0
## 88	-1	-1	-1	-1	-1	-1	0
## 89	0	0	0	0	0	0	1
## 90	1	1	1	1	1	1	0
## 91	1	1	1	-1	-1	-1	-1
## 92	0	0	0	0	0	0	1
## 93	0	0	0	0	0	0	1
## 94	-1	-1	-1	-1	-1	-1	0

## 95	1	1	1	1	1	1	0
## 96	-1	-1	-1	-1	-1	-1	0
## 97	0	0	0	0	0	0	0
## 98	-1	-1	-1	-1	-1	-1	0
## 99	-1	-1	-1	-1	-1	-1	0
## 100	0	0	0	0	0	0	1
## 101	-1	-1	-1	-1	-1	-1	1
## 102	-1	-1	-1	-1	-1	-1	0
## 103	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	-1
## 106	-1	-1	-1	-1	-1	-1	0
## 107	-2	-2	-2	-2	-2	-2	0
## 108	-1	-1	-1	-1	-1	-1	1
## 109	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	1
## 111	-1	-1	-1	-1	-1	-1	-1
## 112	-1	-1	-1	-1	-1	-1	0
## 113	-1	-1	-1	-1	-1	-1	1
## 114	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	-1

##	cn_LRTM2	cn_KCNA1	cn_NTF3	cn_SCNN1A	cn_CLEC4E	cn_A2ML1	cn_KLRB1	cn_BCL2L14
## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	2	-1	-1	1	1	1	1	2
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	2	2	2	2	-1
## 7	0	0	0	0	0	0	0	0
## 8	2	2	2	2	2	2	2	2
## 9	0	2	2	2	2	2	2	2

## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	0	0	0	0	0	0	0	0
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	1	1	1	1	1	1	1	1
## 17	0	0	0	0	0	0	0	0
## 18	1	1	1	1	1	1	1	1
## 19	0	0	0	0	0	0	0	0
## 20	0	0	0	0	-1	-1	-1	-1
## 21	1	1	1	1	1	1	1	1
## 22	1	1	1	1	1	1	1	-2
## 23	0	0	0	0	0	0	0	0
## 24	1	0	0	1	0	0	0	0
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	0	0	0	0	0	0	0	0
## 28	0	0	0	0	0	0	0	0
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	-1	-1	-1	-1	-1	-1	-1	-1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	0	0
## 39	0	0	0	0	0	0	0	0
## 40	0	0	0	0	0	0	0	0
## 41	-1	-1	-1	-1	-1	-1	-1	-1

## 42	0	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0	0
## 44	0	0	0	0	0	0	0	0
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	2	2	2	2	1	1	1	1
## 52	-1	-1	-1	-1	-1	-1	-1	-1
## 53	0	0	0	0	0	0	0	0
## 54	1	1	1	1	1	1	1	1
## 55	0	0	0	0	0	0	0	0
## 56	1	1	1	0	0	0	0	0
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	1	1	1	1	1	1	1	1
## 60	0	0	0	0	0	0	0	0
## 61	0	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1	1
## 63	0	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	-1	-1	-1	-1	-1	-1	-1	-1
## 69	0	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	-1	-1
## 71	-1	-1	-1	-1	-1	-1	-1	-1
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0

## 74	1	1	1	1	1	1	1	1
## 75	1	1	1	1	1	1	1	1
## 76	1	1	1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1	-1
## 79	0	0	0	0	0	0	0	0
## 80	1	1	1	1	1	1	1	1
## 81	1	1	1	1	1	1	1	1
## 82	1	1	1	1	1	1	1	1
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	1	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	0	0
## 89	1	1	1	1	1	1	1	1
## 90	0	0	0	0	0	0	0	0
## 91	-1	-1	-1	-1	-1	-1	-1	-1
## 92	1	1	1	1	1	1	1	1
## 93	1	1	1	1	1	1	1	1
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0	2
## 98	0	0	0	0	0	0	0	0
## 99	0	0	0	0	0	0	0	0
## 100	1	1	1	1	1	1	1	1
## 101	1	1	1	1	1	1	1	1
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	-1	-1	-1	-1	-1	-1	-1	-1

## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	1	1	1	1	1	1	1	1
## 111	-1	-1	-1	-1	0	0	0	0
## 112	0	0	0	0	0	0	0	0
## 113	1	1	1	1	1	1	1	1
## 114	0	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	-1	-1	-1	-1	-1	-1	-1	-1

##	cn_MGP	cn_ERP27	cn_LMO3	cn_RERGL	cn_SLC01A2	cn_C12orf39	cn_TUBA3C	cn_GJB2
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## 1	1	1	1	1	1	1	0	0
## 2	0	0	0	0	0	0	0	0
## 3	-1	-1	-1	-1	-1	-1	0	0
## 4	0	0	0	0	0	0	-1	-1
## 5	0	0	0	0	0	0	0	0
## 6	1	1	2	2	2	2	1	1
## 7	0	0	0	0	0	0	-1	-1
## 8	1	1	1	1	1	1	1	1
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	0	0	0	0	0	0	0	0
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	1	1	1	1	1	1	-1	-1
## 17	0	0	0	0	0	0	-1	-1
## 18	1	1	1	1	1	1	-1	-1
## 19	0	0	0	0	0	0	-1	-1
## 20	-1	-1	-1	-1	-1	-1	0	0

## 21	1	1	1	1	1	1	-1	-1
## 22	2	2	1	1	1	1	-1	-1
## 23	0	0	0	0	0	0	-1	-1
## 24	0	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	0	0	0	0	0	0	-1	-1
## 28	0	0	0	0	0	0	0	0
## 29	0	0	0	0	0	0	-1	-1
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	-1	-1
## 32	-1	-1	-1	-1	1	1	-1	-1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	1	1
## 38	0	0	0	0	0	0	-1	-1
## 39	0	0	0	0	0	0	-1	-1
## 40	0	0	0	0	0	0	-1	-1
## 41	-1	-1	-1	-1	-1	-1	0	0
## 42	0	0	0	0	0	0	-1	-1
## 43	0	0	0	0	0	0	0	0
## 44	0	0	0	0	0	0	0	0
## 45	0	0	0	0	0	0	-1	-1
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	1	1	1	1	1	1	-1	-1
## 52	-1	-1	-1	-1	-1	-1	0	0

## 53	0	0	0	1	0	0	-1	-1
## 54	1	1	1	1	1	1	0	0
## 55	0	0	0	0	0	0	-1	-1
## 56	0	0	0	0	0	0	1	1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	-1	2
## 59	1	1	1	1	1	1	0	0
## 60	0	0	0	0	0	0	-1	-1
## 61	0	0	0	0	0	0	0	-1
## 62	1	1	1	1	1	1	1	1
## 63	0	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	0	0
## 66	0	0	0	0	0	0	-1	-1
## 67	0	0	0	0	0	0	0	0
## 68	-1	-1	-1	-1	-1	-1	0	0
## 69	0	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	0	0
## 71	-1	-1	-1	-1	-1	-1	-1	-1
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	-1	-1
## 75	1	1	1	1	1	1	-1	-1
## 76	-1	-1	0	0	1	1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	1	1
## 79	0	0	0	0	0	0	0	0
## 80	1	1	1	1	1	1	-1	-1
## 81	1	1	1	1	1	1	-1	-1
## 82	1	1	1	1	1	1	-1	-1
## 83	0	0	0	0	0	0	-1	-1
## 84	0	0	0	0	0	0	0	0

## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	1	1	1	1	1	1	-1	-1
## 87	0	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	-1	-1
## 89	1	1	1	1	1	1	-1	-1
## 90	0	0	0	0	0	0	-1	-1
## 91	-1	-1	-1	-1	0	0	1	1
## 92	1	1	1	1	1	1	-1	-1
## 93	1	1	1	1	1	1	-1	-1
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	-1	-1
## 96	0	0	0	0	0	0	1	1
## 97	0	0	0	0	0	0	-1	-1
## 98	0	0	0	0	0	0	-1	-1
## 99	0	0	0	1	1	1	-1	-1
## 100	1	1	1	1	1	1	0	0
## 101	1	1	1	1	1	1	-1	-1
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	-1	-1
## 106	0	0	0	0	0	0	-1	-1
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	1	1	1	1	1	1	1	1
## 111	0	0	0	0	0	0	-1	-1
## 112	0	0	0	0	0	0	0	0
## 113	1	1	1	1	1	1	-1	-1
## 114	0	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	1	1
## 116	-1	-1	-1	-1	-1	-1	0	0

##	cn_GJB6	cn_FGF9	cn_SGCG	cn_ATP8A2	cn_SHISA2	cn_GPR12	cn_FLT3	cn_DCLK1
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	-2	-1
## 4	-1	-1	-1	-1	-1	-1	-1	-1
## 5	0	0	0	0	0	0	0	0
## 6	1	1	1	1	1	1	1	1
## 7	-1	-1	-1	-1	-1	-1	-1	-1
## 8	1	1	1	1	1	1	1	2
## 9	0	0	-1	-1	-1	-1	0	-1
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	0	0	0	0	0	0	0	0
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	-1	-1	-1	-1	-1	-1	-1	-1
## 17	-1	-1	-1	-1	-1	-1	-1	-1
## 18	-1	-1	-1	-1	-1	-1	-1	-1
## 19	-1	-1	-1	-1	-1	-1	-1	-1
## 20	0	0	0	0	0	0	0	-1
## 21	-1	-1	-1	-1	-1	-1	-1	-1
## 22	-1	-1	-1	-1	-1	-1	-1	-1
## 23	-1	-1	-1	-1	-1	-1	-1	-1
## 24	0	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	0	0	0	0	0	0	0	0
## 29	-1	-1	-1	-1	-1	-1	-1	-1
## 30	0	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1	-1

## 32	-1	-1	-1	-1	-1	-1	-1	-1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	0
## 37	1	1	1	2	2	2	2	-1
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	-1	-1	-1	-1	-1	-1	-1	-1
## 40	-1	-1	-1	0	0	0	0	0
## 41	0	0	0	0	0	0	0	0
## 42	-1	-1	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0	0
## 44	0	0	0	0	0	0	0	0
## 45	-1	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	1	1	1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	-1	0
## 54	0	0	0	0	0	0	0	0
## 55	-1	-1	-1	-1	-1	-1	-1	-1
## 56	1	1	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0	0
## 58	-1	-1	-1	-1	1	0	1	-1
## 59	0	-1	-1	-1	-1	-1	-1	-1
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	-1	-1	-1	0	0	0	0	-1
## 62	1	1	1	2	1	1	1	-1
## 63	0	0	0	0	0	0	0	0

## 64	0	0	0	0	0	0	0	0
## 65	0	0	0	0	0	0	0	1
## 66	-1	-1	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0	0
## 71	-1	-1	-1	1	1	1	1	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	-1	-1	-1	-1	-1	-1	-1	-1
## 75	-1	-1	0	0	0	0	0	-1
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0	0
## 80	-1	-1	-1	-1	-1	-1	-1	-1
## 81	-1	-1	-1	-1	-1	-1	-1	-1
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	-1	-1	-1	-1	-1	-1	-1	-1
## 87	0	0	0	0	0	0	0	0
## 88	-1	-1	-1	-1	-1	-1	-1	-1
## 89	-1	-1	-1	-1	-1	-1	-1	-1
## 90	-1	-1	-1	-1	-1	-1	-1	-1
## 91	1	1	1	1	1	1	1	1
## 92	-1	-1	-1	-1	-1	-1	-1	-1
## 93	-1	-1	-1	-1	-1	-1	-1	-1
## 94	0	0	0	0	0	0	0	0
## 95	-1	-1	-1	-1	-1	-1	-1	-1

## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	0	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	-1	-1	-1	-1	-1	-1	-1	-1
## 17	-1	-1	-1	-1	-1	-1	-1	-1
## 18	-1	-1	-1	-1	-1	-1	-1	-1
## 19	-1	-1	-1	-1	-1	-1	-1	-1
## 20	0	-1	-1	-1	-1	-1	-1	-1
## 21	-1	-1	-1	-1	-1	-1	-1	-1
## 22	-1	-2	-2	-2	-2	-2	-2	-2
## 23	-1	-1	-1	-1	-1	-1	-1	-1
## 24	0	0	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	0	0	0	0	0	0	0	0
## 29	-1	-1	-1	-1	-1	-1	-1	-1
## 30	0	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1	-1
## 32	-1	-1	-1	-1	-1	-1	-1	-1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	0	0	1	0	0	0	0	0
## 37	-1	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	-1	-1	-1	-1	-1	-1	-1	-1
## 40	0	0	0	0	0	0	0	0
## 41	0	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0	0

## 43	0	0	0	0	0	0	0	0
## 44	0	0	0	0	0	0	0	0
## 45	-1	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	-1	0	0	0	0	0	0	0
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0	0
## 53	0	0	0	0	0	0	0	0
## 54	0	0	0	0	0	0	0	0
## 55	-1	-1	-1	-1	-1	-1	-1	-1
## 56	1	2	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0	0
## 58	-1	-1	-1	-1	-1	-1	-1	-1
## 59	-1	-1	-1	-1	-1	-1	-1	-1
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	-1	-1	-1	-1	-1	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	0	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	0	-1	-1	-1	-1	-1	-1	-1
## 71	0	0	0	0	0	0	0	0
## 72	0	-1	-1	-1	-1	-1	-1	-1
## 73	0	0	0	0	0	0	0	0
## 74	-1	-1	-1	-1	-1	-1	-1	-1

## 75	-1	-1	-1	-1	-1	1	1	1
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0	0
## 80	-1	-1	-1	-1	-1	-1	-1	-1
## 81	-1	0	0	0	0	0	0	0
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	-1	-1	-1	-1	-1	-1	-1	-1
## 87	0	0	0	0	0	0	0	0
## 88	-1	-1	0	0	0	0	0	0
## 89	-1	-1	-1	-1	-1	-1	-1	-1
## 90	-1	-1	-1	-1	-1	-1	-1	-1
## 91	1	0	-1	-1	-1	-1	-1	-1
## 92	-1	-1	-1	-1	-1	-1	-1	-1
## 93	-1	-1	-1	-1	-1	-1	-1	-1
## 94	0	0	0	0	0	0	0	0
## 95	-1	-1	-1	-1	-1	-1	-1	-1
## 96	-1	-1	0	0	0	1	1	1
## 97	-1	-1	-1	-1	-1	-1	-1	-1
## 98	-1	-1	-1	-1	-1	-1	-1	-1
## 99	-1	-1	-1	-1	-1	-1	-1	-1
## 100	0	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	-1	-1	-1	-1	-1	-1	-1	-1
## 106	-1	-1	-1	-1	-1	-1	-1	-1

## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	0	2	1	1	1	1	1	1
## 111	-1	-1	-1	-1	-1	-1	-1	-1
## 112	-1	-1	-1	-1	-1	-1	-1	-1
## 113	-1	-1	-1	-1	-1	-1	-1	-1
## 114	0	0	0	0	0	0	0	0
## 115	1	1	1	1	1	1	1	1
## 116	0	0	0	0	0	0	0	0

##	cn_SLITRK1	cn_SLITRK6	cn_SLITRK5	cn_CLDN10	cn_HS6ST3	cn_OXGR1	cn_SLC15A1
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## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	-1	-1	-1	-1	-1	-1	-1
## 4	-1	-1	-1	-1	-1	-1	-1
## 5	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1
## 7	-1	-1	-1	-1	-1	-1	-1
## 8	1	1	1	2	2	2	2
## 9	-1	0	-1	-1	-1	0	0
## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0
## 12	-1	-1	-1	-1	-1	-1	-1
## 13	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	-1	-1	-1	-1	-1	-1	-1
## 17	-1	-1	-1	-1	-1	-1	-1
## 18	-1	-1	-1	-1	-1	-1	-1
## 19	-1	-1	-1	-1	-1	-1	-1
## 20	-1	-1	-1	-1	-1	-1	-1
## 21	-1	-1	-1	-1	-1	-1	-1

## 22	-1	-1	-1	-1	-1	-1	1
## 23	-1	-1	-1	-1	-1	-1	-1
## 24	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1
## 28	0	0	0	0	0	0	0
## 29	-1	-1	-1	-1	-1	-1	-1
## 30	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1
## 32	-1	-1	-1	-1	-1	-1	-1
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0
## 37	0	0	0	2	2	2	0
## 38	-1	-1	-1	-1	-1	-1	-1
## 39	-1	-1	-1	-1	-1	-1	-1
## 40	0	0	0	1	1	1	1
## 41	1	1	1	1	1	1	1
## 42	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0
## 44	0	0	0	0	0	0	0
## 45	0	-1	0	-1	0	0	0
## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	0	0	0	0	0	0	0
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0
## 53	0	0	0	0	0	0	0

## 54	0	0	0	0	0	0	0
## 55	-1	-1	-1	-1	-1	-1	-1
## 56	2	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0
## 58	-1	-1	-1	-1	-1	-1	-1
## 59	1	1	1	1	1	1	1
## 60	-1	-1	-1	0	-1	0	-1
## 61	0	-1	-1	-1	-1	-1	-1
## 62	-1	-1	-1	-1	-1	-1	-1
## 63	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	-1
## 71	0	0	0	0	0	0	0
## 72	-1	-1	-1	-1	-1	-1	-1
## 73	0	0	0	0	0	0	0
## 74	-1	-1	-1	-1	-1	-1	-1
## 75	1	1	1	1	1	1	1
## 76	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0
## 78	1	2	2	2	2	2	2
## 79	0	0	0	0	0	0	0
## 80	-1	-1	-1	-1	-1	-1	2
## 81	0	0	0	0	0	0	0
## 82	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1

## 86	-1	-1	-1	-1	-1	-1	-1
## 87	0	0	0	0	0	0	0
## 88	1	1	1	0	0	0	1
## 89	-1	-1	-1	-1	-1	-1	-1
## 90	-1	-1	-1	-1	-1	-1	-1
## 91	-1	-1	-1	1	0	0	0
## 92	-1	-1	-1	-1	-1	-1	-1
## 93	-1	-1	-1	-1	-1	-1	-1
## 94	0	0	0	0	0	0	0
## 95	-1	-1	-1	-1	-1	-1	-1
## 96	1	1	1	1	1	1	1
## 97	-1	-1	-1	-1	-1	-1	-1
## 98	-1	-1	-1	-1	-1	-1	-1
## 99	-1	-1	-1	-1	-1	-1	-1
## 100	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0
## 105	-1	-1	-1	-1	-1	-1	-1
## 106	-1	-1	-1	-1	-1	-1	-1
## 107	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0
## 110	1	1	1	1	1	1	1
## 111	1	1	1	1	1	1	1
## 112	-1	-1	-1	-1	-1	-1	-1
## 113	-1	-1	-1	-1	-1	-1	-1
## 114	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0

cn_ZIC5 cn_ZIC2 cn_FAM155A cn_F7 cn_DHRS2 cn_NOVA1 cn_COCH cn_PAX9 cn_FOXA1

## 1	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0
## 3	-1	-1	-1	1	0	0	0	0	0
## 4	-1	-1	-1	-1	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	1	1	1	-1	-1
## 7	-1	-1	-1	-1	0	0	0	0	0
## 8	2	2	2	2	-1	-1	-1	-1	-1
## 9	0	0	-1	-1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0	0
## 12	-1	-1	-1	-1	0	0	0	0	0
## 13	-1	-1	-1	-1	0	0	0	0	0
## 14	0	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0	0
## 16	-1	-1	-1	-1	0	0	0	0	0
## 17	-1	-1	-1	-1	0	0	0	0	0
## 18	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 19	-1	-1	-1	-1	0	0	0	0	0
## 20	-1	-1	-1	-1	0	-1	0	2	2
## 21	-1	-1	-1	-1	0	0	0	0	0
## 22	1	1	1	1	-1	1	-1	-1	-1
## 23	-1	-1	-1	-1	0	0	0	0	0
## 24	1	1	1	1	1	1	1	1	0
## 25	0	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	1	1	1	1	1
## 27	-1	-1	-1	-1	0	0	0	0	0
## 28	0	0	0	1	2	-1	-1	-1	-1
## 29	-1	-1	-1	-1	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 32	-1	-1	-1	-1	0	0	0	0	0

## 65	1	1	1	1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	0	0	1	2	2
## 71	0	0	0	0	1	1	1	1	1
## 72	-1	-1	-1	-1	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0	0
## 74	-1	-1	-1	-1	0	0	0	0	0
## 75	1	1	1	1	-1	-1	-1	-1	-1
## 76	-1	-1	-1	-1	1	1	1	1	1
## 77	0	0	0	0	0	0	0	0	0
## 78	2	2	2	2	2	1	1	1	1
## 79	0	0	0	0	1	1	1	1	1
## 80	1	1	1	1	1	-1	-1	-1	-1
## 81	0	0	0	0	-1	-1	-1	-1	-1
## 82	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 86	-1	-1	-1	-1	0	0	0	0	0
## 87	0	0	0	0	0	0	0	0	0
## 88	1	1	2	-2	-1	-1	-1	-1	2
## 89	-1	-1	-1	-1	0	0	0	0	0
## 90	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 91	-1	-1	-1	-1	-1	-1	-1	1	1
## 92	-1	-1	-1	-1	1	1	1	1	1
## 93	-1	-1	-1	-1	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0	0
## 95	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 96	1	1	1	1	0	0	0	0	0

## 97	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 98	-1	-1	-1	-1	0	0	0	0	0
## 99	-1	-1	-1	-1	-1	-1	-1	1	1
## 100	0	0	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0	0
## 105	-1	-1	-1	-1	0	0	0	0	0
## 106	-1	-1	-1	-1	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0	0
## 108	1	1	1	1	-1	-1	0	0	0
## 109	0	0	0	0	0	0	0	0	0
## 110	1	1	1	1	0	0	0	0	0
## 111	1	1	1	1	0	0	0	0	0
## 112	-1	-1	-1	-1	-1	-1	0	0	2
## 113	-1	-1	-1	-1	0	0	0	1	1
## 114	0	0	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	0	2	2	1	1
## 116	0	0	0	0	0	0	0	0	0

##	cn_SSTR1	cn_ABHD12B	cn_PRIMA1	cn_IFI27	cn_PPP4R4	cn_SERPINA6	cn_SERPINA1
## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	-1	-1	1	1	1	1	1
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0

## 12	0	0	0	0	0	0	0
## 13	0	0	0	0	0	0	0
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0
## 17	0	0	0	0	0	0	0
## 18	-1	-1	-1	-1	-1	-1	-1
## 19	0	0	0	0	0	0	0
## 20	2	-1	-1	-1	-1	-1	-1
## 21	0	0	0	0	0	0	0
## 22	-1	-1	1	1	1	1	1
## 23	0	0	0	0	0	0	0
## 24	1	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0
## 26	1	-1	-1	-1	-1	-1	-1
## 27	0	0	0	0	0	0	0
## 28	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1
## 32	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	-1	2	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1
## 39	1	1	-1	-1	-1	-1	-1
## 40	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0

## 44	2	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	-1	-1	1	1	1	1	1
## 52	0	0	0	0	0	0	0
## 53	0	0	0	0	0	0	0
## 54	1	1	1	1	1	1	1
## 55	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	-1	0	0	0	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	-1	-1	-1	-1	-1
## 62	1	1	1	1	1	1	1
## 63	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	2	-1	-1	-1	-1	-1	-1
## 71	1	1	1	1	1	1	1
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0
## 75	-1	-1	1	1	1	1	1

## 76	1	1	1	1	1	1	1
## 77	0	0	0	0	0	0	0
## 78	1	1	-1	-1	-1	-1	-1
## 79	1	1	1	1	1	1	1
## 80	-1	-1	-1	-1	-1	-1	-1
## 81	-1	-1	-1	-1	-1	-1	-1
## 82	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1
## 86	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0
## 88	-1	-1	-1	-1	-1	-1	-1
## 89	0	0	0	0	0	0	0
## 90	-1	-1	-1	-1	-1	-1	-1
## 91	1	1	1	1	1	1	1
## 92	1	1	1	1	1	1	1
## 93	0	0	1	1	1	1	1
## 94	0	0	0	0	0	0	0
## 95	-1	-1	-1	-1	-1	-1	-1
## 96	0	0	0	0	0	0	0
## 97	-1	-1	-1	-1	-1	-1	-1
## 98	0	0	0	0	0	0	0
## 99	1	-1	-1	-1	-1	-1	-1
## 100	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0

## 108	-1	-1	1	1	1	1	1
## 109	0	0	0	0	0	0	0
## 110	0	0	0	0	0	0	0
## 111	0	0	-1	-1	-1	-1	-1
## 112	2	0	0	0	0	0	0
## 113	1	-1	-1	-1	-1	-1	-1
## 114	0	0	0	0	0	0	0
## 115	1	0	0	0	0	0	0
## 116	0	0	0	0	0	0	0

##	cn_SERPINA11	cn_SERPINA5	cn_SERPINA3	cn_TCL1B	cn_TCL1A	cn_DEGS2	cn_DLK1
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## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	1	1	1	1	1	1	1
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	-1	-1	-1	1
## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0
## 12	0	0	0	0	0	-1	-1
## 13	0	0	0	0	0	0	0
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0
## 17	0	0	0	0	0	0	0
## 18	-1	-1	-1	-1	-1	-1	-1
## 19	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-1	-1	-1
## 21	0	0	0	0	0	0	0
## 22	1	1	1	1	1	1	1

## 23	0	0	0	0	0	0	0
## 24	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1
## 27	0	0	0	0	0	0	0
## 28	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1
## 32	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	0	0
## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1
## 39	-1	-1	-1	-1	-1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0
## 44	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	1	1	1	1	1	1	1
## 52	0	0	0	0	0	0	0
## 53	0	0	0	0	0	0	0
## 54	1	1	1	1	1	1	1

## 55	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1
## 61	-1	-1	-1	-1	-1	-1	-1
## 62	1	1	1	1	1	0	0
## 63	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	-1
## 71	1	1	1	1	1	1	1
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0
## 75	1	1	1	1	1	-1	-1
## 76	1	1	1	1	1	-1	-1
## 77	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1
## 79	1	1	1	1	1	1	1
## 80	-1	-1	-1	-1	-1	-1	-1
## 81	-1	-1	-1	-1	-1	-1	-1
## 82	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	0	0
## 84	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1
## 86	0	0	0	0	0	0	0

## 87	0	0	0	0	0	0	0
## 88	-1	-1	-1	1	1	1	1
## 89	0	0	0	0	0	0	0
## 90	-1	-1	-1	-1	-1	-1	-1
## 91	1	1	1	1	1	1	1
## 92	1	1	1	1	1	1	1
## 93	1	1	1	1	1	1	1
## 94	0	0	0	0	0	0	0
## 95	-1	-1	-1	-1	-1	-1	-1
## 96	0	0	0	0	0	0	0
## 97	-1	-1	-1	-1	-1	-1	-1
## 98	0	0	0	0	0	1	0
## 99	-1	-1	-1	-1	-1	-1	-1
## 100	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0
## 104	0	0	0	0	0	1	1
## 105	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0
## 108	1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	-2	-2
## 110	0	0	0	0	0	-1	-1
## 111	-1	-1	-1	0	0	0	0
## 112	0	0	-1	-1	-1	0	-1
## 113	-1	-1	-1	-1	-1	-1	-1
## 114	0	0	0	0	0	0	0
## 115	0	0	0	0	0	0	0
## 116	0	0	0	0	0	0	0

##	cn_DI03	cn_TDRD9	cn_C14orf180	cn_PLD4	cn_CRIP1	cn_ADAM6	cn_KIAA0125
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## 1	0	0	0	0	0	0	0
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## 2	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	1	1	1	1	1	1	1
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	1	-1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0
## 12	-1	-1	-1	-1	-1	-1	-1
## 13	0	0	0	0	0	0	0
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0
## 17	0	0	0	0	0	0	0
## 18	-1	-1	-1	-1	-1	-1	-1
## 19	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-1	-1	-1
## 21	0	0	0	0	0	0	0
## 22	1	1	1	1	1	1	1
## 23	0	0	0	0	0	0	0
## 24	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1
## 27	0	0	0	0	0	0	0
## 28	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1
## 32	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0

## 34	0	0	0	0	0	0	0
## 35	0	0	0	0	0	0	0
## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1
## 39	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1
## 41	1	1	1	1	1	1	1
## 42	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0
## 44	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	1	1	1	1	1	1	1
## 52	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1
## 54	1	1	1	1	1	1	1
## 55	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1
## 61	-1	-1	-1	-1	-1	-1	-1
## 62	0	0	0	0	0	0	0
## 63	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1

## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	-1	1	1	1	1	1	1
## 71	1	1	1	1	1	1	1
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0
## 75	-1	-1	-1	-1	-1	-1	-1
## 76	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1
## 79	1	1	1	1	1	1	1
## 80	-1	-1	1	-1	-1	-1	-1
## 81	-1	-1	-1	-1	-1	-1	-1
## 82	-1	-1	-1	-1	-1	-1	-1
## 83	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1
## 86	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0
## 88	1	1	1	1	1	1	1
## 89	0	0	0	0	0	0	0
## 90	-1	-1	-1	-1	-1	-1	-1
## 91	1	1	1	1	1	1	1
## 92	1	1	1	1	1	1	1
## 93	1	1	1	1	1	1	1
## 94	0	0	0	0	0	0	0
## 95	-1	-1	-1	-1	-1	-1	-1
## 96	0	0	0	0	0	0	0
## 97	-1	-1	-1	-1	-1	-1	-1

## 98	0	0	0	0	0	0	0
## 99	-1	-1	-1	-1	-1	-1	-1
## 100	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0
## 104	1	1	1	1	1	1	1
## 105	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	-1	-1	-1
## 109	-2	-2	-2	-2	-2	-2	-2
## 110	-1	-1	-1	-1	-1	-1	-1
## 111	0	0	0	0	0	0	0
## 112	-1	-1	-1	-1	-1	-1	-1
## 113	-1	-1	-1	-1	-1	-1	-1
## 114	0	0	0	0	0	0	0
## 115	0	0	0	0	0	0	0
## 116	0	0	0	0	0	0	0
##	cn_THSD4	cn_GRAMD2	cn_C15orf59	cn_CRABP1	cn_RASGRF1	cn_KIAA1199	cn_TMC3
## 1	-1	-1	-1	1	1	1	1
## 2	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1
## 7	-1	-1	-1	-1	-1	-1	-1
## 8	1	1	1	1	1	1	1
## 9	-1	-1	-1	0	-1	1	1
## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0
## 12	-1	-1	-1	-1	-1	-1	-1

## 13	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	-1	-1	-1	-1	-1	-1	-1
## 17	-1	-1	-1	-1	-1	-1	-1
## 18	0	0	0	0	0	0	0
## 19	1	1	1	1	1	1	1
## 20	-1	-1	-1	-1	-1	-1	-1
## 21	-1	-1	-1	-1	-1	-1	-1
## 22	2	1	1	1	1	1	1
## 23	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0
## 26	1	1	-1	1	1	1	1
## 27	-1	-1	-1	-1	-1	-1	-1
## 28	-1	-1	-1	-1	-1	-1	-1
## 29	1	1	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0
## 32	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1
## 39	-1	-1	-1	-1	-1	-1	-1
## 40	-1	-1	-1	-1	-1	-1	-1
## 41	-1	-1	-1	-1	-1	-1	-1
## 42	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1
## 44	0	0	0	0	0	0	0

## 45	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	1
## 52	0	0	0	0	0	0	0
## 53	0	0	0	0	0	0	0
## 54	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	-1	-1	-1	-1	-1	-1	-1
## 60	0	0	0	0	0	0	0
## 61	0	0	0	0	0	0	0
## 62	-1	-1	-1	1	1	1	1
## 63	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	-1	-1
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	0	0	0	1	1	1	1
## 71	1	1	1	1	1	1	1
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0
## 75	1	1	1	1	1	1	1
## 76	-1	-1	-1	-1	-1	1	1

## 77	1	1	1	1	1	1	1
## 78	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0
## 80	-1	-1	-1	-1	-1	-1	-1
## 81	-1	-1	-1	-1	-1	-1	-1
## 82	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1
## 86	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0
## 88	1	1	2	1	2	2	2
## 89	-1	-1	-1	-1	-1	-1	-1
## 90	-1	-1	-1	-1	-1	-1	-1
## 91	0	0	0	0	0	0	0
## 92	-1	-1	-1	-1	-1	-1	-1
## 93	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0
## 95	-1	-1	-1	-1	-1	-1	-1
## 96	0	0	0	0	0	0	0
## 97	0	1	-1	-1	-1	-1	-1
## 98	1	1	1	1	1	1	1
## 99	0	0	0	0	0	0	0
## 100	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0
## 108	1	1	0	-1	-1	0	1

## 109	0	0	0	0	0	0	0
## 110	0	0	0	0	0	1	0
## 111	-1	-1	-1	-1	-1	-1	-1
## 112	-1	-1	-1	-1	-1	-1	-1
## 113	1	1	1	1	1	1	1
## 114	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0

##	cn_AP3B2	cn_BNC1	cn_NTRK3	cn_ACAN	cn_RHCG	cn_PLIN1	cn_MESP1	cn_ANPEP
----	----------	---------	----------	---------	---------	----------	----------	----------

## 1	1	1	2	2	2	2	2	2
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1	-1
## 7	-1	-1	-1	-1	-1	-1	-1	-1
## 8	1	1	2	2	2	2	2	2
## 9	-1	-1	-1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	-1	-1	-1	-1	-1	-1	-1	-1
## 13	-1	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	-1	-1	-1	-1	-1	-1	-1	-1
## 17	-1	-1	-1	-1	-1	-1	-1	-1
## 18	0	0	0	0	0	0	0	0
## 19	1	1	1	1	1	1	1	1
## 20	-1	-1	-1	-1	-1	-1	-1	-1
## 21	-1	-1	-1	-1	-1	-1	-1	-1
## 22	1	1	1	1	1	1	1	1
## 23	0	0	0	0	0	0	0	0

## 24	1	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	1	1	1	1	1	1	1	1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	-1	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0	0
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	-1	-1	-1	-1	-1	-1	-1	-1
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	-1	-1	-1	-1	-1	-1	-1	-1
## 42	0	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1	1
## 44	0	0	0	0	0	0	0	0
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	1	1	1	1	1	1	1	1
## 52	0	0	0	0	0	0	0	0
## 53	0	0	0	0	0	0	0	0
## 54	0	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0	0

## 56	-1	-1	-1	-1	-1	-1	-1	-1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	-1	-1	-1	-1	-1	-1	-1	-1
## 60	0	0	0	0	0	0	0	0
## 61	0	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1	1
## 63	0	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1	-1
## 66	-1	-1	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	1	1	1	1	2	2	2	2
## 71	1	1	1	1	1	1	1	1
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0	0
## 75	1	1	1	1	1	1	1	1
## 76	1	1	1	1	1	1	1	1
## 77	1	1	1	1	1	1	1	1
## 78	1	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0	0
## 80	-1	-1	-1	-1	-1	1	1	1
## 81	-1	-1	-1	-1	-1	-1	-1	-1
## 82	1	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	0	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0	0

## 88	2	2	2	2	2	2	2	2
## 89	-1	-1	-1	-1	-1	-1	-1	-1
## 90	-1	-1	-1	-1	-1	-1	-1	-1
## 91	0	0	0	0	0	0	0	0
## 92	-1	-1	-1	-1	-1	-1	-1	-1
## 93	0	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0
## 95	-1	-1	-1	-1	-1	-1	-1	-1
## 96	0	0	0	0	0	0	0	0
## 97	-1	-1	-1	-1	0	0	0	0
## 98	1	1	1	1	1	1	1	1
## 99	0	0	0	0	0	0	0	0
## 100	0	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	0	0	0	0	0	0	0	0
## 111	-1	-1	-1	-1	-1	-1	-1	-1
## 112	-1	-1	-1	-1	-1	-1	-1	-1
## 113	1	1	1	1	1	1	1	1
## 114	0	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0	0
##	cn_ST8SIA2	cn_RGMA	cn_SYNM	cn_ARHGDIG	cn_HBA1	cn_HBA2	cn_RGS11	cn_FBXL16
## 1	2	2	1	1	1	1	1	1
## 2	0	0	0	1	1	1	1	1

## 3	0	0	0	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	1	1	1	1	1
## 6	-1	-1	1	0	0	0	0	0
## 7	-1	-1	-1	0	0	0	0	0
## 8	2	2	1	1	1	1	1	1
## 9	-1	-1	2	0	0	0	0	0
## 10	0	0	0	2	2	2	2	2
## 11	0	0	0	0	0	0	0	0
## 12	-1	-1	-1	0	0	0	0	0
## 13	-1	-1	-1	1	1	1	1	1
## 14	0	0	0	2	2	2	2	2
## 15	0	0	0	1	1	1	1	1
## 16	-1	-1	-1	1	1	1	1	1
## 17	-1	-1	-1	1	1	1	1	1
## 18	0	0	0	1	1	1	1	1
## 19	1	1	1	1	1	1	1	1
## 20	-1	-1	-1	0	0	0	0	0
## 21	-1	-1	-1	1	1	1	1	1
## 22	1	1	1	-1	-1	-1	-1	-1
## 23	0	0	0	0	0	0	0	0
## 24	1	1	1	0	0	0	0	0
## 25	0	0	0	1	1	1	1	1
## 26	1	1	1	1	1	1	1	1
## 27	-1	-1	-1	1	1	1	1	1
## 28	-1	-1	-1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	0	0	0	2	2	2	2	2
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0

## 35	-1	-1	-1	2	2	2	2	2
## 36	0	0	0	0	0	0	0	0
## 37	0	2	2	1	1	1	1	1
## 38	-1	-1	-1	1	1	1	1	1
## 39	-1	-1	-1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	-1	0	0	0	0	0
## 42	0	0	0	1	1	1	1	1
## 43	1	1	1	1	1	1	1	1
## 44	0	0	0	1	1	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	1	1	1	1	1
## 47	0	0	0	0	0	0	0	0
## 48	-1	-1	-1	1	1	1	1	1
## 49	0	0	0	1	1	1	1	1
## 50	0	0	0	1	1	1	1	1
## 51	1	1	1	1	1	1	1	1
## 52	0	0	0	1	1	1	1	1
## 53	0	0	0	1	1	1	1	1
## 54	0	0	0	2	2	2	2	2
## 55	0	0	0	0	0	0	0	0
## 56	-1	-1	-1	1	1	1	1	1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	-1	-1	-1	0	0	0	0	0
## 60	0	0	0	1	1	1	1	1
## 61	0	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1	1
## 63	0	0	0	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	0	0	0	0	0
## 66	0	0	0	0	0	0	0	0

## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	1	1	1	1	1
## 69	0	0	0	0	0	0	0	0
## 70	2	2	2	0	0	0	0	0
## 71	1	1	1	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	0	0	0	1	1	1	1	1
## 75	2	1	1	-1	-1	-1	-1	-1
## 76	1	1	-1	0	0	0	0	0
## 77	0	0	1	0	0	0	0	0
## 78	1	1	1	1	1	1	1	1
## 79	0	0	0	1	1	1	1	1
## 80	-1	-1	-1	-1	-1	-1	-1	-1
## 81	-1	-1	-1	0	0	0	0	0
## 82	1	1	1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	1	1	1	1	1
## 84	0	0	0	1	1	1	1	1
## 85	-1	-1	-1	0	0	0	0	0
## 86	0	0	0	1	1	1	1	1
## 87	0	0	0	1	1	1	1	1
## 88	2	1	1	1	1	1	1	1
## 89	-1	-1	-1	1	1	1	1	1
## 90	-1	-1	-1	1	1	1	1	1
## 91	0	0	0	1	1	1	1	1
## 92	-1	-1	-1	0	0	0	0	0
## 93	0	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0
## 95	-1	-1	-1	1	1	1	1	1
## 96	0	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0	0
## 98	1	1	1	1	1	1	1	1

## 99	0	0	0	1	1	1	1	1
## 100	0	0	0	1	1	1	1	1
## 101	-1	-1	-1	1	1	1	1	1
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	1	1	1	1	1
## 104	-1	-1	-1	1	1	1	1	1
## 105	0	0	1	1	1	1	1	1
## 106	0	0	0	1	1	1	1	1
## 107	0	0	0	1	1	1	1	1
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	0	0	0	0	0	0	0	0
## 111	-1	0	1	0	0	0	0	0
## 112	-1	-1	-1	0	0	0	0	0
## 113	1	1	1	1	1	1	1	1
## 114	0	0	0	1	1	1	1	1
## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	1	1	1	1	1

##	cn_METRN	cn_CCDC78	cn_HAGHL	cn_GNG13	cn_MSLN	cn_SOX8	cn_CACNA1H	cn_TPSAB1
## 1	1	1	1	1	1	1	1	1
## 2	1	1	1	1	1	1	1	1
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	1	1	1	1	1	1	1	1
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	1	1
## 9	0	0	0	0	0	0	0	0
## 10	2	2	2	2	2	2	2	2
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	1	1	1	1	1	1	1	1

## 14	2	2	2	2	2	2	2	2
## 15	1	1	1	1	1	1	1	1
## 16	1	1	1	1	1	1	1	1
## 17	1	1	1	1	1	1	1	1
## 18	1	1	1	1	1	1	1	1
## 19	1	1	1	1	1	1	1	1
## 20	0	0	0	0	0	0	0	0
## 21	1	1	1	1	1	1	1	1
## 22	-1	-1	-1	-1	-1	-1	-1	-1
## 23	0	0	0	0	0	0	0	0
## 24	0	0	0	0	0	0	0	0
## 25	1	1	1	1	1	1	1	1
## 26	1	1	1	1	1	1	1	1
## 27	1	1	1	1	1	1	1	1
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	2	2	2	2	2	2	2	2
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	2	2	2	2	2	2	2	2
## 36	0	0	0	0	0	0	0	0
## 37	1	1	1	1	1	1	1	1
## 38	1	1	1	1	1	1	1	1
## 39	1	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0	0
## 42	1	1	1	1	1	1	1	1
## 43	1	1	1	1	1	1	1	1
## 44	1	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0	0

## 46	1	1	1	1	1	1	1	1
## 47	0	0	0	0	0	0	0	0
## 48	1	1	1	1	1	1	1	1
## 49	1	1	1	1	1	1	1	1
## 50	1	1	1	1	1	1	1	1
## 51	1	1	1	1	1	1	1	1
## 52	1	1	1	1	1	1	1	1
## 53	1	1	1	1	1	1	1	1
## 54	2	2	2	2	2	2	2	2
## 55	0	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0
## 60	1	1	1	1	1	1	1	1
## 61	0	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1	1
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	0	0	0	0	0	0	0	0
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	1	1	1	1	1	1	1	1
## 69	0	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	-1	-1	-1	-1	-1	-1	-1	-1
## 76	0	0	0	0	0	0	0	0
## 77	0	0	0	0	0	0	0	0

## 78	1	1	1	1	1	1	1	1
## 79	1	1	1	1	1	1	1	1
## 80	-1	-1	-1	-1	-1	-1	-1	-1
## 81	0	0	0	0	0	0	0	0
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	1	1	1	1	1	1	1	1
## 84	1	1	1	1	1	1	1	1
## 85	0	0	0	0	0	0	0	0
## 86	1	1	1	1	1	1	1	1
## 87	1	1	1	1	1	1	1	1
## 88	1	1	1	1	1	1	1	1
## 89	1	1	1	1	1	1	1	1
## 90	1	1	1	1	1	1	1	1
## 91	1	1	1	1	1	1	1	1
## 92	0	0	0	0	0	0	0	0
## 93	0	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0
## 95	1	1	1	1	1	1	1	1
## 96	0	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	1	1
## 98	1	1	1	1	1	1	1	1
## 99	1	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1	1
## 101	1	1	1	1	1	1	1	1
## 102	0	0	0	0	0	0	0	0
## 103	1	1	1	1	1	1	1	1
## 104	1	1	1	1	1	1	1	1
## 105	1	1	1	1	1	1	1	1
## 106	1	1	1	1	1	1	1	1
## 107	1	1	1	1	1	1	1	1
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0

## 110	0	0	0	0	0	0	0	0
## 111	0	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0	0
## 113	1	1	1	1	1	1	1	1
## 114	1	1	1	1	1	1	1	1
## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	1	1	1	1	1	1	1	1
##	cn_TPSB2	cn_TPSD1	cn_TPSG1	cn_BAIAP3	cn_IGFALS	cn_NPW	cn_RAB26	cn_PRSS33
## 1	1	1	1	1	1	1	1	1
## 2	1	1	1	1	1	1	1	1
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	1	1	1	1	1	1	1	1
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	1	-1
## 9	0	0	0	1	1	1	1	1
## 10	2	2	2	2	2	2	2	2
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	1	1	1	1	1	1	1	1
## 14	2	2	2	2	2	2	2	2
## 15	1	1	1	1	1	1	1	1
## 16	1	1	1	1	1	1	1	1
## 17	1	1	1	1	1	1	1	1
## 18	1	1	1	1	1	1	1	1
## 19	1	1	1	1	1	1	1	1
## 20	0	0	0	0	0	0	0	0
## 21	1	1	1	1	1	1	1	1
## 22	-1	-1	-1	-1	-1	-1	-1	-1
## 23	0	0	0	0	0	0	0	0
## 24	0	0	0	0	1	0	0	0

## 25	1	1	1	1	1	1	1	1
## 26	1	1	1	1	1	1	1	1
## 27	1	1	1	1	1	1	1	1
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	2	2	2	2	2	2	2	2
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	2	2	2	2	2	2	2	2
## 36	0	0	0	0	0	0	0	0
## 37	1	1	1	1	1	1	1	1
## 38	1	1	1	1	1	1	1	1
## 39	1	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0	0
## 42	1	1	1	1	1	1	1	1
## 43	1	1	1	1	1	1	1	1
## 44	1	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	1	1	1	1	1	1	1	1
## 47	0	0	0	0	0	0	0	0
## 48	1	1	1	1	1	1	1	1
## 49	1	1	1	1	1	1	1	1
## 50	1	1	1	1	1	1	1	1
## 51	1	1	1	1	1	1	1	1
## 52	1	1	1	1	1	1	1	1
## 53	1	1	1	1	1	1	1	1
## 54	2	2	2	2	2	1	1	1
## 55	0	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1	1

## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0
## 60	1	1	1	1	1	1	1	1
## 61	0	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1	1
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	0	0	0	0	0	0	0	0
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	1	1	1	1	1	1	1	1
## 69	0	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	-1	-1	-1	-1	-1	-1	-1	-1
## 76	0	0	0	0	0	0	0	0
## 77	0	0	0	0	0	0	0	0
## 78	1	1	1	1	0	0	0	0
## 79	1	1	1	1	1	1	1	1
## 80	-1	-1	-1	-1	-1	-1	-1	1
## 81	0	0	0	0	0	0	0	0
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	1	1	1	1	1	1	1	1
## 84	1	1	1	1	1	1	1	1
## 85	0	0	0	0	0	0	0	0
## 86	1	1	1	1	1	1	1	1
## 87	1	1	1	1	1	1	1	1
## 88	1	1	1	1	1	1	1	1

## 89	1	1	1	1	1	1	1	1
## 90	1	1	1	1	1	1	1	1
## 91	1	1	1	1	1	1	1	1
## 92	0	0	0	1	1	1	1	1
## 93	0	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0
## 95	1	1	1	1	1	1	1	1
## 96	0	0	0	0	0	0	0	0
## 97	1	1	1	1	0	2	2	0
## 98	1	1	1	1	1	1	1	1
## 99	1	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1	1
## 101	1	1	1	1	1	1	1	1
## 102	0	0	0	0	0	0	0	0
## 103	1	1	1	1	1	1	1	1
## 104	1	1	1	1	1	1	1	1
## 105	1	1	1	1	1	1	1	1
## 106	1	1	1	1	1	1	1	1
## 107	1	1	1	1	1	1	1	1
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	0	0	0	0	0	0	0	0
## 111	0	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0	0
## 113	1	1	1	1	1	1	1	1
## 114	1	1	1	1	1	1	1	1
## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	1	1	1	1	1	1	1	1
##	cn_PRSS21	cn_ZG16B	cn_KREMEN2	cn_PKMYT1	cn_CLDN6	cn_C16orf89	cn_ABAT	
## 1	1	1	1	1	1	1	1	
## 2	1	1	1	1	1	1	1	
## 3	1	1	1	1	1	1	1	

## 4	0	0	0	0	0	0	0
## 5	1	1	1	1	1	1	1
## 6	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	1
## 9	1	1	1	1	1	-1	-1
## 10	2	2	2	2	2	2	2
## 11	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0
## 13	1	1	1	1	1	1	1
## 14	2	2	2	2	2	2	2
## 15	1	1	1	1	1	1	1
## 16	1	1	1	1	1	1	1
## 17	1	1	1	1	1	1	1
## 18	1	1	1	1	1	1	0
## 19	1	1	1	1	1	1	1
## 20	0	0	0	0	0	0	0
## 21	1	1	1	1	1	1	1
## 22	-1	-1	-1	-1	-1	-1	-1
## 23	0	0	0	0	0	0	0
## 24	0	0	0	0	0	0	0
## 25	1	1	1	1	1	1	1
## 26	1	1	1	1	1	1	1
## 27	1	1	1	1	1	1	1
## 28	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	2	2	2	2	2	2	2
## 32	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	2	2	2	2	2	2	2

## 36	0	0	0	0	0	0	0
## 37	1	1	1	1	1	1	1
## 38	1	1	1	1	1	1	1
## 39	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0
## 42	1	1	1	1	1	1	1
## 43	1	1	1	1	1	1	1
## 44	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0
## 46	1	1	1	1	1	1	1
## 47	0	0	0	0	0	0	0
## 48	1	1	1	1	1	1	1
## 49	1	1	1	1	1	1	1
## 50	1	1	1	1	1	1	1
## 51	1	1	1	1	1	1	1
## 52	1	1	1	1	1	1	1
## 53	1	1	1	1	1	1	1
## 54	1	1	1	1	1	1	1
## 55	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0
## 60	1	1	1	1	1	1	1
## 61	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1
## 63	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0
## 65	0	0	0	0	0	0	0
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0

## 68	1	1	1	1	1	1	1
## 69	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1
## 75	-1	-1	-1	-1	-1	-1	1
## 76	0	0	0	0	0	0	2
## 77	0	0	0	0	0	0	0
## 78	0	0	0	0	0	0	0
## 79	1	1	1	1	1	1	1
## 80	1	1	1	1	1	-1	-1
## 81	0	0	0	0	0	0	0
## 82	-1	-1	-1	-1	-1	-1	-1
## 83	1	1	1	1	1	1	1
## 84	1	1	1	1	1	1	1
## 85	0	0	0	0	0	0	0
## 86	1	1	1	1	1	1	1
## 87	1	1	1	1	1	1	1
## 88	1	1	1	1	1	1	1
## 89	1	1	1	1	1	1	1
## 90	1	1	1	1	1	1	1
## 91	1	1	1	1	1	1	1
## 92	1	1	1	1	0	0	0
## 93	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0
## 95	1	1	1	1	1	1	1
## 96	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0
## 98	1	1	1	1	1	1	1
## 99	1	1	1	1	1	1	1

## 100	1	1	1	1	1	1	1
## 101	1	1	1	1	1	1	1
## 102	0	0	0	0	0	0	0
## 103	1	1	1	1	1	1	1
## 104	1	1	1	1	1	1	1
## 105	1	1	1	1	1	1	1
## 106	1	1	1	1	1	1	1
## 107	1	1	1	1	1	1	1
## 108	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0
## 110	0	0	0	0	0	0	0
## 111	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0
## 113	1	1	1	1	1	1	1
## 114	1	1	1	1	1	1	1
## 115	-1	-1	-1	-1	-1	-1	-1
## 116	1	1	1	1	1	1	1
##	cn_GRIN2A	cn_TNFRSF17	cn_SHISA9	cn_ABCC6	cn_MPV17L	cn_MYH11	cn_PLA2G10
## 1	1	1	1	1	1	1	1
## 2	1	2	0	0	0	0	0
## 3	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0
## 5	1	1	1	1	1	1	1
## 6	0	0	0	1	1	1	1
## 7	0	0	0	0	0	0	0
## 8	-1	-1	1	1	1	1	1
## 9	-1	-1	0	-1	-1	-1	-1
## 10	2	2	2	2	2	2	2
## 11	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0
## 13	1	1	1	1	1	1	1
## 14	2	2	2	2	2	2	2

## 15	1	1	1	1	1	1	1
## 16	1	1	1	1	1	1	1
## 17	1	1	1	1	1	1	1
## 18	0	-1	-1	0	0	0	0
## 19	1	1	1	1	1	1	1
## 20	0	0	0	0	0	0	0
## 21	1	1	1	1	1	1	1
## 22	-1	1	-1	-1	-1	-1	-1
## 23	0	0	0	0	0	0	0
## 24	0	0	0	0	0	0	0
## 25	1	1	1	1	1	1	1
## 26	1	1	1	1	1	1	1
## 27	1	1	1	1	1	1	1
## 28	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	2	2	2	2	2	2	2
## 32	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0
## 37	1	1	1	1	1	1	1
## 38	1	1	1	1	1	1	1
## 39	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0
## 42	1	1	1	1	1	1	1
## 43	1	1	1	1	1	1	1
## 44	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0
## 46	1	1	1	1	1	1	1

## 47	0	0	0	0	0	0	0
## 48	1	1	1	1	1	1	1
## 49	1	1	1	1	1	1	1
## 50	1	1	1	1	1	1	1
## 51	1	1	1	1	1	1	1
## 52	1	1	1	1	1	1	1
## 53	1	1	1	1	1	1	1
## 54	1	1	1	1	1	1	1
## 55	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0
## 60	1	1	1	1	1	1	1
## 61	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1
## 63	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0
## 65	0	0	0	0	0	0	0
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	1	1	1	1	1	1	1
## 69	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1
## 75	1	1	1	1	1	1	1
## 76	2	0	0	1	1	1	1
## 77	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1

## 79	1	1	1	1	1	1	1
## 80	-1	-1	-1	1	1	1	1
## 81	0	0	0	0	0	0	0
## 82	-1	-1	-1	-1	-1	-1	-1
## 83	1	1	1	1	1	1	1
## 84	1	1	1	1	1	1	1
## 85	0	0	0	0	0	0	0
## 86	1	1	1	1	1	1	1
## 87	1	1	1	1	1	1	1
## 88	1	1	1	1	1	1	1
## 89	1	1	1	1	1	1	1
## 90	1	1	1	1	1	1	1
## 91	1	1	1	1	1	1	1
## 92	0	0	0	0	0	0	0
## 93	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0
## 95	1	1	1	1	1	1	1
## 96	0	0	2	0	0	0	0
## 97	0	0	0	0	0	0	0
## 98	1	1	1	1	1	1	1
## 99	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1
## 101	1	1	1	1	1	1	1
## 102	0	0	0	0	0	0	0
## 103	1	1	1	1	1	1	1
## 104	1	1	1	1	1	1	1
## 105	1	1	1	1	1	1	1
## 106	1	1	1	1	1	1	1
## 107	1	1	1	1	1	1	1
## 108	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0
## 110	0	0	0	0	0	0	0

##	111	0	0	0	0	0	0	0	
##	112	0	0	0	0	0	0	0	
##	113	1	1	1	1	1	1	1	
##	114	1	1	1	1	1	1	1	
##	115	-1	-1	-1	-1	-1	-1	-1	
##	116	1	1	1	1	1	1	1	
##		cn_SYT17	cn_TMC5	cn_GP2	cn_ACSM5	cn_ACSM1	cn_DNAH3	cn_CRYM	cn_SCNN1G
##	1	1	1	1	1	1	1	1	
##	2	0	0	0	0	0	0	0	
##	3	1	1	1	1	1	1	1	
##	4	0	0	0	0	0	0	0	
##	5	1	1	1	1	1	1	1	
##	6	1	1	1	1	1	1	1	
##	7	0	0	0	0	0	0	0	
##	8	1	1	1	1	1	1	-1	
##	9	-1	-1	-1	-1	-1	-1	-1	
##	10	2	2	2	2	2	2	2	
##	11	0	0	0	0	0	0	0	
##	12	0	0	0	0	0	0	0	
##	13	-1	-1	-1	-1	-1	-1	-1	
##	14	2	2	2	2	2	2	2	
##	15	1	1	1	1	1	1	1	
##	16	1	1	1	1	1	1	1	
##	17	1	1	1	1	1	1	1	
##	18	0	0	0	0	0	0	0	
##	19	1	1	1	1	1	1	1	
##	20	0	0	0	0	0	0	0	
##	21	1	1	1	1	1	1	1	
##	22	-1	-1	-1	-1	-1	-1	-1	
##	23	0	0	0	0	0	0	0	
##	24	0	0	0	0	0	0	0	
##	25	1	1	1	1	1	1	1	

## 26	1	1	1	1	1	1	1	1
## 27	1	1	1	1	1	1	1	1
## 28	-1	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	2	2	2	2	2	2	2	2
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	0
## 37	1	1	1	1	1	1	1	1
## 38	1	1	1	1	1	1	1	1
## 39	1	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0	0
## 42	1	1	1	1	1	1	1	1
## 43	1	1	1	1	1	1	1	1
## 44	1	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	1	1	1	1	1	1	1	1
## 47	0	0	0	0	0	0	0	0
## 48	1	1	1	1	1	1	1	1
## 49	1	1	1	1	1	1	1	1
## 50	1	1	1	1	1	1	1	1
## 51	1	1	1	1	1	1	1	1
## 52	1	1	1	1	1	1	1	1
## 53	1	1	1	1	1	1	1	1
## 54	1	1	1	1	1	1	1	1
## 55	0	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0	0

## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0
## 60	1	1	1	1	1	1	1	1
## 61	0	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1	1
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	0	0	0	0	0	0	0	0
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	1	1	1	1	1	1	1	1
## 69	0	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	1	1	1	1	1	1	1	1
## 76	0	0	0	0	0	0	0	0
## 77	0	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1	-1
## 79	1	1	1	1	1	1	1	1
## 80	-1	-1	-1	-1	-1	-1	-1	-1
## 81	0	0	0	0	0	0	0	0
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	1	1	1	1	1	1	1	1
## 84	1	1	1	1	1	1	1	1
## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	1	1	1	1	1	1	1	1
## 87	1	1	1	1	1	1	1	1
## 88	1	1	1	1	1	1	1	1
## 89	1	1	1	1	1	1	1	1

## 90	1	1	1	1	1	1	1	1
## 91	1	1	1	1	1	1	1	1
## 92	0	0	0	0	0	0	0	0
## 93	0	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0
## 95	1	1	1	1	1	1	1	1
## 96	0	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0	0
## 98	1	1	1	1	1	1	1	1
## 99	1	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1	1
## 101	1	1	1	1	1	1	1	1
## 102	0	0	0	0	0	0	0	0
## 103	1	1	1	1	1	1	1	1
## 104	1	1	1	1	1	1	1	1
## 105	1	1	1	1	1	1	1	1
## 106	1	1	1	1	1	1	1	1
## 107	1	1	1	1	1	1	1	1
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	0	0	0	0	0	0	0	0
## 111	0	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0	0
## 113	1	1	1	1	1	1	1	1
## 114	1	1	1	1	1	1	1	1
## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	1	1	1	1	1	1	1	1
##	cn_SCNN1B	cn_HS3ST4	cn_CD19	cn_ASPHD1	cn_DOC2A	cn_FAM57B	cn_SEZ6L2	cn_PYDC1
## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0

## 5	1	1	1	1	1	1	1	1
## 6	1	1	1	1	1	1	1	1
## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	1	1	1	1	1	1
## 9	-1	-1	-1	-1	-1	-1	-1	-1
## 10	2	2	2	2	2	2	2	2
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1	-1
## 14	2	2	2	2	2	2	2	2
## 15	1	1	1	1	1	1	1	1
## 16	1	1	1	1	1	1	1	1
## 17	1	1	1	1	1	1	1	1
## 18	0	0	1	1	1	1	1	1
## 19	1	1	1	1	1	1	1	1
## 20	0	0	0	0	0	0	0	0
## 21	1	1	1	1	1	1	1	1
## 22	-1	-1	1	-1	-1	-1	-1	-1
## 23	0	0	0	0	0	0	0	0
## 24	0	0	0	0	0	0	0	0
## 25	1	1	1	1	1	1	1	1
## 26	1	1	1	-1	-1	-1	-1	-1
## 27	1	1	1	1	1	1	1	1
## 28	-1	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	2	2	2	2	2	2	2	2
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	0

## 37	1	1	1	1	1	1	1	1
## 38	1	1	1	1	1	1	1	1
## 39	1	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0	0
## 42	1	1	1	1	1	1	1	1
## 43	1	1	1	1	1	1	1	1
## 44	1	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	1	1	1	1	1	1	1	1
## 47	0	0	0	0	0	0	0	0
## 48	1	1	1	1	1	1	1	1
## 49	1	1	1	1	1	1	1	1
## 50	1	1	1	1	1	1	1	1
## 51	1	1	1	1	1	1	1	1
## 52	1	1	1	1	1	1	1	1
## 53	1	1	1	1	1	1	1	1
## 54	1	1	1	1	1	1	1	1
## 55	0	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0
## 60	1	1	1	1	1	1	1	1
## 61	0	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1	1
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	0	1	0	0	0	0	0	0
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	1	1	1	1	1	1	1	1

## 69	0	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	1	1	1	1	1	1	1	1
## 76	0	1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1	-1
## 79	1	1	1	1	1	1	1	1
## 80	-1	-1	-1	-1	-1	-1	-1	-1
## 81	0	0	0	0	0	0	0	0
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	1	1	1	1	1	1	1	1
## 84	1	1	1	1	1	1	1	1
## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	1	1	1	1	1	1	1	1
## 87	1	1	1	1	1	1	1	1
## 88	1	1	1	1	1	1	1	1
## 89	1	1	1	1	1	1	1	1
## 90	1	1	1	1	1	1	1	1
## 91	1	1	1	1	1	1	1	1
## 92	0	0	0	0	0	0	0	0
## 93	0	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0
## 95	1	1	1	1	1	1	1	1
## 96	0	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0	0
## 98	1	1	1	1	1	1	1	1
## 99	1	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1	1

## 16	-1	-1	-1	-1	-1	-1	-1	-1
## 17	1	1	1	1	1	1	1	-1
## 18	-1	-1	-1	-1	-1	-1	-1	-1
## 19	-2	-1	-1	-1	-1	-1	-1	-1
## 20	0	0	0	0	0	0	0	0
## 21	1	1	1	1	1	1	1	1
## 22	-1	-1	-1	-1	-1	-1	-1	-1
## 23	2	2	2	2	2	2	2	-1
## 24	0	0	0	0	0	0	0	0
## 25	-2	-1	-1	-1	-1	-1	-1	-1
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	-1	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	2	-1	-1	-1	-1	-1	-1	-1
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	-1
## 34	-1	-1	-1	-1	-1	-1	-1	-1
## 35	-1	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0	0
## 37	2	2	2	0	-1	-1	-1	-1
## 38	1	1	1	1	1	1	1	1
## 39	1	1	1	1	0	0	0	0
## 40	1	0	0	0	0	0	0	0
## 41	0	0	0	0	0	0	0	0
## 42	1	1	1	1	-1	-1	-1	1
## 43	0	0	0	0	0	0	0	0
## 44	0	0	0	0	1	1	1	1
## 45	-1	-1	-1	-1	-1	-1	-1	-1
## 46	-1	-1	-1	-1	-1	-1	-1	-1
## 47	-1	-1	-1	-1	-1	-1	-1	-1

## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	-1	-1	-1	-1	-1	-1	-1	-1
## 50	-1	-1	-1	-1	-1	-1	-1	-1
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	-1	-1	-1	-1	-1	-1	-1	-1
## 53	0	0	0	0	1	1	1	1
## 54	1	1	1	1	1	1	1	1
## 55	0	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	0	0	0	0
## 57	-1	-1	-1	-1	-1	-1	-1	-1
## 58	-1	-1	-1	-1	-1	-1	-1	-1
## 59	-1	-1	-1	-1	0	0	0	0
## 60	1	1	1	1	1	1	1	1
## 61	-1	-1	-1	-1	-1	-1	-1	-1
## 62	1	1	1	1	1	1	1	1
## 63	-1	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0	0
## 65	0	0	0	0	0	0	0	0
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	1	1	-1	-1	-1	-1	-1	-1
## 69	-1	-1	-1	-1	-1	-1	-1	-1
## 70	0	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	-1	-1	-1	-1	-1	-1	-1	-1
## 75	-1	-1	-1	-1	-1	-1	-1	0
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	1	1	1	1
## 79	-1	-1	-1	-1	-1	-1	-1	-1

## 80	-1	-1	-1	-1	-1	-1	-1	-1
## 81	0	0	0	0	0	0	0	0
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	-1	-1	-1	-1	-1	-1	-1	-1
## 87	-1	-1	-1	-1	-1	-1	-1	-1
## 88	-1	-1	-1	-1	-1	-1	-1	-1
## 89	1	1	1	1	1	1	1	1
## 90	-1	-1	-1	-1	-1	-1	-1	-1
## 91	-1	-1	-1	-1	-1	-1	-1	-1
## 92	0	0	0	0	0	0	0	0
## 93	-1	-1	-1	-1	-1	-1	-1	-1
## 94	-1	-1	-1	-1	-1	-1	-1	-1
## 95	-1	-1	-1	-1	-1	-1	-1	-1
## 96	0	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0	1
## 98	-1	-1	-1	-1	-1	-1	-1	-1
## 99	1	1	1	1	1	1	1	1
## 100	0	0	0	0	0	0	0	0
## 101	1	1	1	1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0	0
## 103	-1	-1	-1	-1	-1	-1	-1	-1
## 104	1	1	1	1	1	1	1	-1
## 105	0	0	0	0	0	0	0	0
## 106	-1	-1	-1	-1	-1	-1	-1	-1
## 107	-2	-2	-2	-2	-2	-2	-2	-2
## 108	0	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0	0
## 110	2	2	-1	1	1	-1	-1	-1
## 111	0	0	-1	-1	-1	-1	-1	-1

[illegible]

##	27	-1	-1	-1	-1	-1	-1	-1	-1
##	28	-1	-1	-1	-1	-1	-1	-1	-1
##	29	0	0	0	0	0	0	0	0
##	30	0	0	0	0	0	0	0	0
##	31	-1	-1	-1	-1	-1	-1	-1	-1
##	32	1	1	1	-1	-1	-1	-1	-1
##	33	-1	-1	-1	-1	-1	-1	-1	-1
##	34	-1	-1	-1	-1	-1	-1	-1	-1
##	35	-1	-1	-1	-1	-1	1	1	1
##	36	0	0	0	0	0	0	0	0
##	37	-1	-1	-1	-1	-1	-1	-1	-1
##	38	1	1	1	1	1	1	1	1
##	39	0	0	0	0	0	0	0	0
##	40	0	0	0	0	0	0	0	0
##	41	0	0	0	0	0	0	0	0
##	42	1	1	1	-1	-1	-1	-1	-1
##	43	0	0	0	0	0	0	0	0
##	44	1	1	0	0	0	0	0	0
##	45	-1	-1	-1	-1	-1	-1	-1	-1
##	46	-1	-1	-1	-1	-1	-1	-1	-1
##	47	-1	-1	-1	-1	-1	-1	-1	-1
##	48	-1	-1	-1	-1	-1	-1	-1	-1
##	49	-1	-1	-1	-1	-1	-1	-1	-1
##	50	-1	-1	-1	-1	-1	-1	-1	-1
##	51	-1	-1	-1	-1	-1	-1	-1	-1
##	52	-1	-1	-1	-1	-1	-1	-1	-1
##	53	1	1	1	1	1	1	1	1
##	54	1	1	1	-1	-1	-1	-1	-1
##	55	0	0	0	0	0	0	0	0
##	56	0	0	0	0	0	0	0	0
##	57	-1	-1	-1	-1	-1	-1	-1	-1
##	58	-1	-1	-1	-1	-1	-1	-1	-1

[illegible]

##	91	-1	-1	-1	-1	-1	-1	-1	-1
##	92	0	0	0	0	0	0	0	0
##	93	-1	-1	-1	-1	-1	-1	-1	-1
##	94	-1	-1	-1	-1	-1	-1	-1	-1
##	95	-1	-1	-1	-1	-1	-1	-1	-1
##	96	0	0	0	0	0	0	0	0
##	97	1	1	0	0	0	0	0	0
##	98	-1	-1	-1	-1	-1	-1	-1	-1
##	99	1	1	1	1	1	1	1	1
##	100	0	0	0	0	0	0	0	0
##	101	-1	-1	-1	-1	-1	-1	-1	-1
##	102	0	0	0	0	0	0	0	0
##	103	-1	-1	-1	-1	-1	-1	-1	-1
##	104	-1	-1	-1	-1	-1	-1	-1	-1
##	105	0	0	0	0	0	0	0	0
##	106	-1	-1	-1	-1	-1	-1	-1	-1
##	107	-2	-2	-2	-2	-2	-2	-2	-2
##	108	-1	-1	-1	-1	-1	-1	-1	-1
##	109	0	0	0	0	0	0	0	0
##	110	-1	-1	-1	0	0	0	0	0
##	111	-1	-1	-1	1	1	1	2	1
##	112	-1	-1	-1	-1	-1	-1	-1	-1
##	113	-1	-1	-1	-1	-1	-1	-1	-1
##	114	-1	-1	-1	-1	-1	-1	-1	-1
##	115	-1	-1	-1	-1	-1	-1	-1	-1
##	116	-1	-1	-1	-1	-1	-1	-1	-1

## 6	1	1	1	1	1	1	2	1
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	1	1
## 9	-1	2	2	2	2	-1	-1	-1
## 10	-1	-1	-1	-1	-1	-1	-1	-1
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	1	1	1	1	1	1	1	1
## 14	-1	-1	-1	-1	-1	-1	-1	-1
## 15	-1	-1	-1	-1	-1	-1	-1	-1
## 16	-1	-1	-1	-1	-1	-1	-1	-1
## 17	-1	-1	-1	-1	-1	-1	-1	-1
## 18	-1	-1	0	0	-1	0	0	0
## 19	-1	-1	-1	-1	-1	-1	-1	-1
## 20	0	0	0	0	0	0	0	0
## 21	-1	-1	-1	-1	-1	-1	-1	-1
## 22	-1	-1	-1	-1	-1	-1	-1	-1
## 23	-1	-1	-1	-1	-1	-1	-1	-1
## 24	1	1	1	1	1	1	1	1
## 25	-1	-1	-1	-1	-1	-1	-1	-1
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	-1	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1	-1
## 32	-1	-1	-1	-1	-1	-1	-1	-1
## 33	0	0	0	-1	-1	-1	-1	-1
## 34	-1	-1	-1	-1	-1	-1	-1	-1
## 35	-1	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0	0
## 37	-1	-1	-1	-1	-1	-1	-1	-1

## 38	1	1	1	1	1	1	1	1
## 39	0	0	0	0	0	0	0	0
## 40	0	0	0	0	0	0	0	0
## 41	0	0	0	0	0	0	0	0
## 42	-1	-1	-1	-1	-1	-1	-1	-1
## 43	0	0	0	0	0	0	0	0
## 44	0	0	0	0	0	0	0	0
## 45	-1	-1	-1	-1	-1	-1	-1	-1
## 46	-1	-1	-1	-1	-1	-1	-1	-1
## 47	-1	-1	-1	-1	-1	-1	-1	-1
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	-1	-1	-1	-1	-1	-1	-1	-1
## 50	-1	-1	-1	-1	-1	-1	-1	-1
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	-1	-1	-1	-1	-1	-1	-1	-1
## 53	1	1	1	1	1	1	1	1
## 54	-1	-1	-1	-1	-1	-1	-1	-1
## 55	0	0	0	0	0	0	0	0
## 56	0	0	0	0	0	0	0	0
## 57	-1	-1	-1	-1	-1	-1	-1	-1
## 58	-1	-1	-1	-1	-1	-1	-1	-1
## 59	-1	-1	-1	-1	-1	-1	-1	-1
## 60	1	1	1	1	1	1	1	1
## 61	-1	-1	-1	-1	-1	-1	-1	-1
## 62	1	1	1	1	1	1	1	1
## 63	-1	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0	0
## 65	0	0	0	0	0	0	0	0
## 66	0	0	0	0	0	-1	-1	-1
## 67	0	0	0	0	0	0	0	0
## 68	-1	-1	-1	-1	-1	-1	-1	-1
## 69	-1	-1	-1	-1	-1	-1	-1	-1

## 70	0	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0	0
## 72	-1	-1	-1	-1	-1	-1	-1	-1
## 73	0	0	0	0	0	0	0	0
## 74	-1	-1	-1	-1	-1	-1	-1	-1
## 75	0	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1	-1
## 79	-1	-1	-1	-1	-1	-1	-1	-1
## 80	-1	-1	-1	-1	-1	-1	-1	-1
## 81	0	0	0	0	0	0	0	0
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	-1	-1	-1	-1	-1	-1	-1	-1
## 87	-1	-1	-1	-1	-1	-1	-1	-1
## 88	-1	-1	-1	-1	-1	-1	-1	-1
## 89	1	1	1	1	1	1	1	1
## 90	-1	-1	-1	-1	-1	-1	-1	-1
## 91	-1	-1	-1	-1	-1	-1	-1	-1
## 92	0	0	0	0	0	1	1	1
## 93	-1	-1	-1	-1	-1	-1	-1	-1
## 94	-1	-1	-1	-1	-1	-1	-1	-1
## 95	-1	-1	-1	-1	-1	-1	-1	-1
## 96	0	0	0	0	0	0	0	0
## 97	0	1	1	1	1	0	0	0
## 98	-1	-1	-1	-1	-1	-1	-1	-1
## 99	1	1	1	1	1	1	1	1
## 100	0	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1	-1

##	102	0	0	0	0	0	0	0
##	103	-1	-1	-1	-1	-1	1	1
##	104	-1	-1	-1	-1	-1	-1	-1
##	105	0	0	0	0	0	0	0
##	106	-1	-1	-1	-1	-1	-1	-1
##	107	-2	-2	-2	-2	-2	-2	-2
##	108	-1	-1	-1	-1	-1	-1	-1
##	109	0	0	0	0	0	0	0
##	110	0	0	0	0	0	0	0
##	111	1	1	1	1	1	1	1
##	112	-1	-1	-1	-1	-1	-1	-1
##	113	-1	-1	-1	-1	-1	-1	-1
##	114	-1	-1	-1	-1	-1	-1	-1
##	115	-1	-1	-1	-1	-1	-1	-1
##	116	-1	-1	-1	-1	-1	-1	-1

## 17	-1	-1	-1	-1	-1	-1	-1
## 18	-1	-1	-1	-1	-1	-1	-2
## 19	-1	-1	-1	-1	-1	-1	-1
## 20	0	0	0	0	0	0	-1
## 21	-1	-1	-1	-1	-1	-1	1
## 22	-1	-1	-1	-1	-1	-1	-1
## 23	-1	-1	-1	-2	-2	-2	-1
## 24	1	1	1	2	2	2	0
## 25	-1	-1	-1	-1	-1	-1	0
## 26	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1
## 28	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	-1	-1	-1	0
## 30	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	1
## 32	-1	-1	-1	-1	-1	-1	-1
## 33	-1	-1	-1	-1	-1	-1	0
## 34	-1	-1	-1	-1	-1	-1	0
## 35	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0
## 37	-1	-1	-1	-1	-1	-1	0
## 38	1	1	1	1	1	1	-1
## 39	0	0	0	0	0	0	-1
## 40	0	0	0	0	0	0	-1
## 41	0	0	0	-1	-1	-1	0
## 42	-1	-1	-1	-1	-1	-1	-1
## 43	0	0	0	0	0	0	0
## 44	0	0	0	0	0	0	-1
## 45	-1	-1	-1	-1	-1	-1	0
## 46	-1	-1	-1	-1	-1	-1	0
## 47	-1	-1	-1	-1	-1	-1	0
## 48	-1	-1	-1	-1	-1	-1	-1

## 49	-1	-1	-1	-1	-1	-1	1
## 50	-1	-1	-1	-1	-1	-1	0
## 51	-1	-1	-1	1	1	1	-1
## 52	-1	-1	-1	-1	-1	-1	0
## 53	0	0	0	0	0	0	-1
## 54	-1	-1	-1	-1	-1	-1	-1
## 55	0	0	0	0	0	0	0
## 56	0	0	0	0	0	0	1
## 57	-1	-1	-1	-1	-1	-1	-1
## 58	-1	-1	-1	-1	-1	-1	-1
## 59	-1	-1	-1	-1	-1	-1	1
## 60	1	1	1	1	1	1	-1
## 61	-1	0	0	-1	-1	-1	1
## 62	1	1	1	1	1	1	-1
## 63	-1	-1	-1	-1	-1	-1	1
## 64	0	0	0	0	0	0	0
## 65	0	0	0	0	0	0	-1
## 66	-1	-1	-1	-1	-1	-1	0
## 67	0	0	0	0	0	0	0
## 68	-1	-1	-1	-1	-1	-1	1
## 69	-1	-1	-1	-1	-1	-1	-1
## 70	0	0	0	0	0	0	-1
## 71	0	0	0	0	0	0	0
## 72	-1	-1	-1	-1	-1	-1	-1
## 73	0	0	0	0	0	0	0
## 74	-1	-1	-1	-2	-2	-2	-1
## 75	0	0	0	-1	-1	-1	0
## 76	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	1
## 78	-1	-1	-1	-1	-1	-1	-1
## 79	-1	-1	-1	-1	-1	-1	0
## 80	-1	-1	-1	-1	-1	-1	-1

## 81	0	0	0	0	0	0	0
## 82	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	-2
## 85	-1	-1	-1	-1	-1	-1	-1
## 86	-1	-1	-1	-1	-1	-1	-1
## 87	-1	-1	-1	-1	-1	-1	0
## 88	-1	-1	-1	-1	-1	-1	-1
## 89	1	1	1	1	1	1	0
## 90	-1	-1	-1	-1	-1	-1	-1
## 91	-1	-1	-1	-1	-1	-1	-1
## 92	0	0	0	0	0	0	-1
## 93	-1	-1	-1	-1	-1	-1	-1
## 94	-1	-1	-1	-1	-1	-1	-1
## 95	-1	-1	-1	-1	-1	-1	0
## 96	0	0	0	0	0	0	-1
## 97	0	0	0	0	0	0	-1
## 98	-1	-1	-1	-1	-1	-1	1
## 99	1	1	1	1	1	1	-1
## 100	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0
## 103	-1	-1	-1	-1	-1	-1	0
## 104	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	-1	-1	-1	-1
## 106	-1	-1	-1	-1	-1	-1	-1
## 107	-2	-2	-2	1	1	1	0
## 108	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	-2	-2	-2	0
## 110	0	0	0	0	0	0	-1
## 111	1	-1	-1	-1	-1	-1	-1
## 112	-1	-1	-1	-1	-1	-1	-1

## 113	-1	-1	-1	-1	-1	-1	0
## 114	-1	-1	-1	-1	-1	-1	0
## 115	-1	-1	-1	-1	-1	-1	-1
## 116	-1	-1	-1	-1	-1	-1	0
##	cn_MFAP4	cn_ALDH3A1	cn_SLC13A2	cn_CORO6	cn_SLC6A4	cn_RHBDL3	cn_CCL11
## 1	-1	-1	0	0	0	0	0
## 2	0	0	0	0	0	1	1
## 3	-1	-1	1	1	1	1	1
## 4	-1	-1	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	-1	-1	-1	-1
## 10	-1	-1	0	0	0	0	0
## 11	-1	-1	0	0	0	0	0
## 12	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0
## 17	-1	-1	1	1	1	1	1
## 18	-2	-2	2	2	2	2	2
## 19	-1	-1	-1	-1	-1	-1	-1
## 20	-1	-1	-1	-1	-1	-1	-1
## 21	1	1	1	2	2	1	2
## 22	-1	-1	-1	-1	-1	-1	-1
## 23	-1	-1	-1	-1	-1	-1	-1
## 24	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0
## 26	-1	-1	1	1	1	1	1
## 27	-1	-1	0	0	0	0	0

## 28	-1	-1	1	1	1	1	0
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1
## 32	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	-1	2	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	-1	-1	0	0	0	0	0
## 39	-1	-1	-1	-1	-1	-1	-1
## 40	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0
## 42	-1	-1	-1	-1	-1	-1	-1
## 43	0	0	0	0	0	0	0
## 44	-1	-1	0	0	0	0	0
## 45	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	1	1	1	1	1	1	-1
## 49	1	1	1	1	1	1	1
## 50	0	0	0	0	0	0	0
## 51	-1	-1	-1	1	1	-1	-1
## 52	0	0	0	0	0	0	0
## 53	-1	-1	1	1	1	-1	-1
## 54	-1	-1	0	0	0	0	0
## 55	0	0	0	0	0	0	0
## 56	1	1	-1	-1	-1	1	1
## 57	-1	-1	-1	-1	-1	-1	-1
## 58	-1	-1	-1	-1	-1	-1	-1
## 59	2	2	0	0	0	0	1

## 60	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0
## 62	-1	-1	2	2	2	-1	2
## 63	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	-1	-1	1	1	1	1	1
## 69	-1	-1	-1	-1	-1	-1	-1
## 70	1	1	1	2	2	-1	-1
## 71	0	0	0	0	0	0	0
## 72	-1	-1	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	-1	-1	1	1	1	1	1
## 75	0	0	0	0	0	0	0
## 76	-1	-1	1	1	1	-1	-1
## 77	1	1	1	0	0	0	-1
## 78	-1	-1	-1	-1	-1	-1	-1
## 79	0	0	0	0	0	0	0
## 80	-1	-1	-1	-1	-1	-1	0
## 81	0	0	0	0	0	0	0
## 82	-1	-1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	-2	-2	1	1	1	1	1
## 85	-1	-1	-1	-1	-1	-1	-1
## 86	-1	-1	1	1	1	1	1
## 87	0	0	0	0	0	0	0
## 88	-1	-1	0	0	0	-1	-1
## 89	0	0	0	0	0	0	0
## 90	-1	-1	0	0	0	1	0
## 91	-1	-1	-1	-1	-1	-1	-1

## 92	-1	-1	-1	-1	-1	-1	-1	
## 93	-1	-1	1	1	1	-1	-1	
## 94	-1	-1	-1	-1	-1	-1	-1	
## 95	0	0	0	0	0	0	0	
## 96	-1	-1	0	0	-1	-1	-1	
## 97	1	0	0	0	0	0	0	
## 98	1	1	-1	-1	-1	-1	-1	
## 99	-1	-1	1	1	1	1	1	
## 100	0	0	0	0	0	0	0	
## 101	-1	-1	1	1	1	1	1	
## 102	0	0	0	0	0	0	0	
## 103	0	0	0	0	0	0	0	
## 104	-1	-1	-1	-1	-1	-1	-1	
## 105	-1	-1	0	0	0	0	0	
## 106	1	1	1	1	1	1	1	
## 107	0	0	0	0	0	0	0	
## 108	-1	-1	1	1	1	1	1	
## 109	0	0	0	0	0	0	0	
## 110	-1	-1	-1	-1	-1	2	2	
## 111	-1	-1	0	0	0	0	0	
## 112	-1	-1	2	-1	0	0	0	
## 113	0	0	1	1	1	1	1	
## 114	0	0	0	0	0	0	0	
## 115	1	1	-1	-1	-1	-1	-1	
## 116	0	0	0	0	0	0	0	
##	cn_CCL13	cn_CCL7	cn_CCL8	cn_GAS2L2	cn_CCL14	cn_CCL18	cn_TBC1D3C	cn_TBC1D3G
## 1	0	0	0	0	0	0	0	0
## 2	1	1	1	0	1	1	1	1
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1	-1

## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1	1
## 18	2	2	2	2	2	2	2	2
## 19	-1	-1	-1	-1	-1	-1	-1	-1
## 20	-1	-1	-1	-1	-1	-1	-1	-1
## 21	2	2	2	2	2	2	2	2
## 22	-1	-1	-1	-1	-1	-1	-1	-1
## 23	-1	-1	-1	-1	-1	-1	-1	-1
## 24	0	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0	0
## 26	1	1	1	1	1	1	1	1
## 27	0	0	0	0	0	0	0	0
## 28	0	0	0	0	0	0	0	0
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	0	0

## 39	-1	-1	-1	-1	-1	-1	-1	-1
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0	0
## 42	-1	-1	-1	-1	-1	-1	-1	-1
## 43	0	0	0	0	0	0	0	0
## 44	0	0	0	0	-1	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	1	1	1	1
## 49	1	1	1	1	1	1	1	1
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	-1	-1
## 54	0	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1	1
## 57	-1	-1	-1	-1	-1	-1	-1	-1
## 58	-1	-1	-1	-1	-1	-1	-1	-1
## 59	1	1	1	1	1	1	1	1
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0	0
## 62	2	2	2	2	2	2	2	2
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	1	1	1	1	1	1	1	1
## 69	-1	-1	-1	-1	-1	-1	-1	-1
## 70	-1	-1	-1	1	0	0	0	0

## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	-1	-1	-1	-1	-1	-1	-1	-1
## 78	-1	-1	-1	-1	-1	-1	-1	-1
## 79	0	0	0	0	0	0	0	0
## 80	0	0	0	0	0	0	0	0
## 81	0	0	0	0	0	0	0	0
## 82	1	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	1	1	1	1	1	1	1	1
## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	1	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	-1	-1	-1	-1	-1	-1	-1	-1
## 89	0	0	0	0	0	0	0	0
## 90	0	0	0	0	0	0	0	0
## 91	-1	-1	-1	-1	-1	-1	-1	-1
## 92	-1	-1	-1	-1	-1	-1	-1	-1
## 93	-1	-1	-1	-1	-1	-1	-1	-1
## 94	-1	-1	-1	-1	-1	-1	-1	-1
## 95	0	0	0	0	0	0	0	0
## 96	-1	-1	-1	0	0	1	1	1
## 97	0	0	0	0	0	0	0	0
## 98	-1	-1	-1	-1	-1	-1	-1	-1
## 99	1	1	1	1	1	1	1	1
## 100	0	0	0	0	0	0	0	0
## 101	1	1	1	1	1	1	1	1
## 102	0	0	0	0	0	0	0	0

## 103	0	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0	0
## 106	1	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	2	2	2	1	1	1	1	1
## 111	0	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0	0
## 113	1	1	1	1	1	1	1	1
## 114	0	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0	0

##	cn_STAC2	cn_PPP1R1B	cn_PNMT	cn_IKZF3	cn_TOP2A	cn_TNS4	cn_CCR7	cn_KRT23
----	----------	------------	---------	----------	----------	---------	---------	----------

## 1	0	0	0	0	0	0	0	0
## 2	1	1	1	1	1	1	1	1
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1	1

## 18	2	2	2	2	2	2	2	2
## 19	-1	-1	-1	-1	-1	-1	-1	-1
## 20	-1	-1	-1	-1	-1	-1	-1	-1
## 21	1	2	2	2	1	1	1	1
## 22	-1	-1	-1	-1	-1	-1	-1	-1
## 23	-1	2	2	2	0	0	0	1
## 24	0	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0	0
## 26	1	1	1	1	1	1	1	1
## 27	0	0	0	0	0	0	0	0
## 28	0	0	0	0	0	0	0	0
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	2	2	2	2	0	0	0	0
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	0	0
## 39	-1	-1	-1	-1	-1	-1	-1	-1
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0	0
## 42	2	2	2	2	0	0	0	0
## 43	0	0	0	0	0	0	0	0
## 44	1	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	1	1	1	1	1	1	1	1
## 49	1	1	1	1	1	1	1	1

## 50	0	0	0	0	0	0	0	0
## 51	1	1	1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0	0
## 53	2	2	2	2	-1	-1	-1	-1
## 54	0	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0	0
## 56	2	2	2	2	-1	-1	-1	-1
## 57	-1	-1	-1	-1	-1	-1	-1	-1
## 58	-1	-1	-1	-1	-1	-1	-1	-1
## 59	1	1	1	1	0	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	-1	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	-1	-1	-1	-1	-1	-1	-1	-1
## 69	-1	-1	-1	-1	-1	-1	-1	-1
## 70	0	-1	-1	-1	-1	-1	-1	-1
## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	-1	-1	-1	-1	-1	-1	0	0
## 78	-1	-1	-1	-1	-1	-1	-1	-1
## 79	0	0	0	0	0	0	0	0
## 80	0	2	2	0	1	1	1	0
## 81	0	0	0	0	0	0	0	0

## 82	1	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	1	1	1	1	1	1	1	1
## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	1	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	-1	-1	-1	-1	-1	-1	-1	-1
## 89	0	0	0	0	0	0	0	0
## 90	1	1	1	1	1	1	1	1
## 91	-1	-1	-1	-1	-1	-1	-1	-1
## 92	1	2	2	2	2	2	2	2
## 93	-1	-1	-1	-1	-1	-1	-1	-1
## 94	-1	-1	-1	-1	-1	-1	-1	-1
## 95	0	0	0	0	0	0	0	0
## 96	2	2	2	2	-1	-1	-1	-1
## 97	0	1	1	0	0	0	0	0
## 98	2	2	2	2	2	2	2	2
## 99	1	1	1	1	1	1	1	1
## 100	0	0	0	0	0	0	0	0
## 101	1	1	1	1	1	1	1	1
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	1	1
## 106	1	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	-1	2	2	2	2	-1	-1	-1
## 111	0	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0	0
## 113	1	1	1	1	1	1	1	1

## 114	0	0	0	0	0	0	0	0
## 115	2	2	2	2	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0	0
##	cn_KRT31	cn_KRT13	cn_KRT15	cn_KRT14	cn_KRT16	cn_KRT17	cn_HAP1	cn_WNK4
## 1	0	0	0	0	0	0	0	0
## 2	1	1	1	1	1	1	1	1
## 3	1	1	1	1	1	1	1	-1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	-1	-1	-1	-1	-1	2
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1	1
## 18	2	2	2	2	2	2	2	2
## 19	-1	-1	-1	-1	-1	-1	-1	-1
## 20	-1	-1	-1	-1	-1	-1	-1	-1
## 21	1	1	1	1	1	1	1	-1
## 22	-1	-1	-1	-1	-1	-1	-1	-1
## 23	-1	-1	-1	-1	-1	-1	-1	-1
## 24	0	0	0	0	0	0	0	1
## 25	0	0	0	0	0	0	0	0
## 26	1	1	1	1	1	1	1	1
## 27	0	0	0	0	0	0	0	0
## 28	0	-1	-1	-1	-1	-1	-1	-1

## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	2	0	0	0	0	0	0	0
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	0	0
## 39	-1	-1	-1	-1	-1	-1	-1	-1
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0	0
## 44	1	1	1	1	1	1	1	-1
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	1	1	1	1	1	1	1	1
## 49	1	1	1	1	1	1	1	1
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	-1	-1
## 54	0	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1	-1
## 57	-1	-1	-1	-1	-1	-1	-1	-1
## 58	-1	-1	-1	-1	-1	-1	-1	-1
## 59	0	0	0	0	0	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1	-1

## 61	0	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	-1	-1	-1	-1	-1	-1	-1	-1
## 69	-1	-1	-1	-1	-1	-1	-1	-1
## 70	-1	-1	-1	-1	-1	-1	-1	-1
## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1	-1
## 79	0	0	0	0	0	0	0	0
## 80	2	2	2	2	2	2	2	2
## 81	0	0	0	0	0	0	0	0
## 82	1	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	1	1	1	1	1	1	1	1
## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	1	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	-1	-1	-1	-1	-1	-1	-1	-1
## 89	0	0	0	0	0	0	0	0
## 90	1	1	1	1	1	1	1	1
## 91	-1	-1	-1	-1	-1	-1	-1	-1
## 92	-1	-1	-1	-1	-1	-1	-1	-1

## 93	-1	-1	-1	-1	-1	-1	-1	-1
## 94	-1	-1	-1	-1	-1	-1	-1	-1
## 95	0	0	0	0	0	0	0	0
## 96	-1	-1	-1	-1	-1	-1	-1	-1
## 97	0	0	0	0	0	0	0	0
## 98	2	2	2	2	2	2	2	1
## 99	1	1	1	1	1	1	1	1
## 100	0	0	0	0	0	0	0	0
## 101	1	1	1	1	1	1	1	1
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1	-1
## 105	1	1	1	1	1	1	1	1
## 106	1	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1	-1
## 111	0	0	0	0	0	0	0	-1
## 112	0	0	0	0	0	0	0	0
## 113	1	1	1	1	1	1	1	1
## 114	0	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0	0
##	cn_RND2	cn_ETV4	cn_MEOX1	cn_CD300LG	cn_PYY	cn_RUNDC3A	cn_GFAP	cn_KIF18B
## 1	0	0	0	0	0	0	0	0
## 2	1	1	1	1	1	1	1	1
## 3	-1	-1	-1	0	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0	0

## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	2	1	1	1	1	1	2	2
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1	1
## 18	2	2	2	2	2	2	2	2
## 19	-1	-1	-1	-1	-1	-1	-1	-1
## 20	-1	-1	-1	-1	-1	-1	-1	-1
## 21	-1	-1	-1	-1	-1	-1	-1	-1
## 22	-1	-1	-1	-1	-1	1	-1	-1
## 23	-1	-1	-1	-1	-1	-1	-1	-1
## 24	1	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	1	1	1	1	1	1	1	1
## 27	0	0	0	0	0	0	0	0
## 28	-1	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	0	0	0	0	0	0	0	0
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	0	0
## 39	-1	-1	-1	-1	-1	-1	-1	-1

## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0	0
## 44	-1	2	-1	-1	2	2	2	2
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	1	1	1	1	1	1	1	1
## 49	1	1	1	1	1	1	1	1
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	-1	-1
## 54	0	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1	-1
## 57	-1	-1	-1	-1	-1	-1	-1	-1
## 58	-1	-1	-1	-1	-1	-1	-1	-1
## 59	0	0	0	0	0	0	0	0
## 60	-1	-1	-1	-1	-1	-1	1	1
## 61	0	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	-1	-1	-1	-1	-1	-1	-1	-1
## 69	-1	-1	-1	-1	-1	-1	-1	-1
## 70	-1	-1	-1	-1	-1	-1	-1	-1
## 71	0	0	0	0	0	0	0	0

## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1	-1
## 79	0	0	0	0	0	0	0	0
## 80	2	-1	-1	-1	-1	-1	-1	-1
## 81	0	0	0	0	0	0	0	0
## 82	1	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	1	-1	-1	-1	-1	-1	-1	-1
## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	1	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	-1	-1	-1	-1	-1	-1	-1	-1
## 89	0	0	0	0	0	0	0	0
## 90	1	1	1	1	1	1	1	1
## 91	-1	-1	-1	-1	-1	-1	-1	-1
## 92	-1	-1	-1	-1	-1	-1	-1	-1
## 93	-1	-1	-1	-1	-1	-1	-1	-1
## 94	-1	-1	-1	-1	-1	-1	-1	-1
## 95	0	0	0	0	0	0	0	0
## 96	-1	-1	-1	-1	-1	-1	-1	-1
## 97	0	0	0	0	0	0	0	0
## 98	1	1	1	1	1	1	1	1
## 99	1	1	1	1	1	1	1	1
## 100	0	0	0	0	0	0	0	0
## 101	1	1	1	1	1	1	1	1
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0

## 104	-1	-1	-1	-1	-1	-1	-1	-1
## 105	1	1	1	1	1	1	1	1
## 106	1	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1	-1
## 111	-1	-1	-1	-1	-1	-1	0	0
## 112	0	0	0	0	0	0	0	0
## 113	1	1	1	1	1	1	1	1
## 114	0	0	0	0	0	0	0	0
## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0	0
##	cn_CRHR1	cn_MAPT	cn_HOXB2	cn_HOXB5	cn_HOXB6	cn_HOXB13	cn_B4GALNT2	cn_NGFR
## 1	0	0	0	0	0	0	0	0
## 2	1	1	1	1	1	1	1	1
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	2	2	1	1	1	1	1	1
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1	1
## 18	2	2	2	2	2	2	2	2

## 19	-1	-1	-1	-1	-1	-1	-1	-1
## 20	-1	-1	-1	-1	-1	-1	-1	-1
## 21	2	2	1	1	1	1	1	1
## 22	-1	-1	-1	-1	-1	-1	-1	-1
## 23	-1	-1	2	2	2	2	2	2
## 24	1	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	1	1	1	1	1	1	1	1
## 27	0	0	0	0	0	0	0	0
## 28	-1	-1	-1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	0	0	0	0	0	0	0	0
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	0	0
## 39	1	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0	0
## 44	2	2	2	2	2	2	2	2
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	1	1	1	1	1	1	1	1
## 49	1	1	1	1	1	1	1	1
## 50	0	0	0	0	0	0	0	0

## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	-1	-1
## 54	0	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1	-1
## 57	-1	-1	-1	-1	-1	-1	-1	-1
## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0
## 60	-1	-1	1	1	1	1	1	1
## 61	0	0	0	0	0	0	0	0
## 62	-1	-1	2	2	2	2	2	2
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	-1	-1	1	1	1	1	1	1
## 69	-1	-1	-1	-1	-1	-1	-1	-1
## 70	-1	-1	2	2	2	2	2	2
## 71	0	0	0	0	0	0	0	0
## 72	1	1	1	1	1	1	1	1
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0	0
## 76	1	1	1	1	1	1	1	1
## 77	1	1	1	1	1	1	0	-1
## 78	-1	-1	-1	-1	-1	-1	-1	-1
## 79	0	0	0	0	0	0	0	0
## 80	-1	-1	-1	-1	-1	-1	-1	-1
## 81	0	0	0	0	0	0	0	0
## 82	1	1	1	1	1	1	1	1

## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	-1	-1	-1	-1	-1	-1	2	2
## 85	-1	-1	0	0	0	0	0	0
## 86	1	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	-1	-1	-1	-1	-1	-1	-1	-1
## 89	0	0	0	0	0	0	0	0
## 90	1	1	1	1	1	1	1	1
## 91	-1	-1	-1	-1	-1	-1	0	0
## 92	-1	-1	-1	-1	-1	2	2	2
## 93	-1	-1	2	2	2	2	2	2
## 94	-1	-1	-1	-1	-1	-1	-1	-1
## 95	0	0	0	0	0	0	0	0
## 96	-1	-1	-1	-1	-1	-1	2	2
## 97	0	0	0	0	0	0	0	0
## 98	1	1	1	1	1	1	1	2
## 99	1	1	1	1	1	1	1	1
## 100	0	0	0	0	0	0	0	0
## 101	1	1	1	1	1	1	1	1
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1	-1
## 105	1	1	1	1	1	1	1	1
## 106	1	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	2	2	2	2	2	2	2	2
## 111	0	0	0	0	0	1	1	1
## 112	0	0	2	2	2	2	0	0
## 113	1	1	1	1	1	1	1	1
## 114	0	0	0	0	0	0	0	0

## 115	-1	-1	-1	-1	-1	-1	-1	-1
## 116	0	0	0	0	0	0	0	0
##	cn_DLX3	cn_CHAD	cn_HLF	cn_TM100	cn_TEX14	cn_PPM1E	cn_PRR11	cn_CA4
## 1	0	0	0	0	0	0	0	0
## 2	1	1	1	1	1	1	1	1
## 3	1	1	1	1	0	0	0	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	1	1	1	1	1	1	1	-1
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	1	1	1	1	1
## 12	0	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1	1
## 18	2	2	2	2	1	1	1	1
## 19	-1	-1	-1	-1	-1	-1	-1	-1
## 20	0	0	0	0	0	0	0	0
## 21	1	1	1	1	2	2	2	2
## 22	-1	-1	-1	-1	-1	-1	-1	-1
## 23	2	2	-1	-1	2	2	-1	-1
## 24	1	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	1	1	1	0	1	1	1	1
## 27	0	0	0	0	0	0	0	0
## 28	-1	-1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0

## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	0	0	0	0	0	0	0	0
## 36	0	0	0	0	0	0	0	0
## 37	0	0	1	1	1	1	1	1
## 38	0	0	0	0	0	0	0	0
## 39	1	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	1	1	1	1	1	1
## 42	0	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0	0
## 44	2	2	2	2	2	2	2	2
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	1	1	1	1	1	1	1	1
## 49	1	1	1	1	1	1	1	1
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	2	2
## 54	0	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1	-1
## 57	-1	-1	-1	-1	-1	-1	-1	-1
## 58	0	0	0	0	0	2	2	2
## 59	0	0	1	1	1	1	1	1
## 60	1	1	1	1	1	1	1	1
## 61	0	0	0	0	0	0	0	0

## 62	2	2	2	1	2	2	1	2
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	-1	1	1	1	1	1	1	1
## 69	-1	-1	-1	-1	-1	-1	-1	-1
## 70	2	2	2	2	2	2	2	2
## 71	0	0	0	0	0	0	0	0
## 72	1	1	1	1	1	1	1	1
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0	0
## 76	1	1	1	1	1	1	1	1
## 77	-1	-1	-1	-1	-1	1	1	1
## 78	-1	-1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0	0
## 80	-1	-1	-1	-1	-1	-1	-1	-1
## 81	0	0	0	0	0	0	0	0
## 82	1	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	1	1	2	2	1	2	2	2
## 85	0	0	0	0	0	0	0	0
## 86	1	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	-1	-1	2	2	2	2	2	2
## 89	0	0	0	0	0	0	0	0
## 90	1	1	1	1	1	1	1	1
## 91	0	0	0	0	0	0	0	0
## 92	2	2	2	2	0	0	0	2
## 93	2	2	-1	-1	1	1	1	1

## 94	-1	-1	-1	-1	0	0	0	0
## 95	0	0	0	0	0	0	0	0
## 96	2	2	-1	-1	2	2	-1	2
## 97	0	0	0	0	0	0	0	0
## 98	2	2	2	2	2	2	2	2
## 99	1	1	1	1	1	1	1	1
## 100	0	0	1	1	1	1	1	1
## 101	1	1	1	1	1	1	1	1
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1	-1
## 105	1	1	2	2	2	2	2	2
## 106	1	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	1	1	2	1	2	2	2	2
## 111	1	1	1	1	1	1	1	1
## 112	2	2	-1	-1	2	2	2	2
## 113	1	1	1	1	1	1	1	1
## 114	0	0	0	0	0	0	0	0
## 115	-1	-1	0	0	0	0	0	0
## 116	0	0	0	0	0	0	0	0

##	cn_TCAM1P	cn_SCN4A	cn_RGS9	cn_CACNG4	cn_CACNG1	cn_SLC16A6	cn_ABCA8	cn_ABCA9
## 1	0	0	0	0	0	0	0	0
## 2	1	1	1	1	1	1	1	1
## 3	2	2	0	0	0	2	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1	-1

## 9	-1	-1	-1	-1	-1	1	-1	-1
## 10	0	0	0	0	0	0	0	0
## 11	1	1	1	1	1	1	1	1
## 12	0	0	0	0	0	0	0	0
## 13	1	1	1	1	1	1	1	1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1	1
## 18	1	1	1	1	1	1	1	1
## 19	-1	-1	-1	-1	-1	-1	-1	-1
## 20	0	0	0	2	2	2	2	0
## 21	1	1	1	1	1	1	1	1
## 22	-1	-1	-1	-1	-1	-1	-1	-1
## 23	1	2	-1	-1	-1	-1	-1	-1
## 24	1	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	1	1	1	1	1	1	1	1
## 27	0	0	0	0	0	0	0	0
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	1	1	1	1	1
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	0	0	0	2	2	0	0	0
## 36	0	0	0	0	0	0	0	0
## 37	1	1	1	1	1	1	1	1
## 38	0	0	0	0	0	0	0	0
## 39	1	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1	-1

## 41	1	1	1	1	1	1	1	1
## 42	1	1	1	1	1	1	1	1
## 43	0	0	0	0	0	0	0	0
## 44	2	2	2	2	2	2	2	2
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	0	0	0	0	0	0	0	0
## 49	1	1	1	1	1	1	1	1
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	2	-1	-1
## 52	0	0	0	0	0	0	0	0
## 53	-1	-1	2	1	1	2	2	2
## 54	0	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1	-1
## 57	-1	-1	-1	-1	-1	-1	-1	-1
## 58	-1	-1	-1	0	0	0	0	0
## 59	1	1	1	1	1	1	1	1
## 60	1	1	1	1	1	1	1	1
## 61	0	0	0	0	0	0	0	0
## 62	2	2	2	2	2	2	1	1
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	1	1	-1	-1	-1	-1	-1	-1
## 69	-1	-1	-1	-1	-1	-1	-1	-1
## 70	2	2	2	2	2	1	1	1
## 71	0	0	0	0	0	0	0	0
## 72	1	1	1	1	1	1	1	1

## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0	0
## 76	1	1	1	1	1	1	1	1
## 77	0	0	0	0	0	1	-1	-1
## 78	1	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0	0
## 80	1	1	2	1	1	1	1	1
## 81	0	0	0	0	0	0	0	0
## 82	1	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	1	1	1	-1	-1	-1	-1	-1
## 85	0	0	0	0	0	0	0	0
## 86	1	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	2	2	2	2	2	2	2	2
## 89	0	0	0	0	0	0	0	0
## 90	1	1	1	1	1	1	1	1
## 91	0	0	0	0	0	0	0	0
## 92	2	2	0	0	0	0	0	0
## 93	1	1	1	1	1	1	1	1
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0	0
## 96	1	1	-1	0	0	0	-1	-1
## 97	0	0	0	0	0	0	0	0
## 98	2	2	2	2	2	2	2	2
## 99	1	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1	1
## 101	1	1	1	1	1	1	1	1
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1	-1

## 105	2	2	2	2	2	2	2	2
## 106	1	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0	0
## 108	2	2	2	2	2	2	2	2
## 109	0	0	0	0	0	0	0	0
## 110	1	1	1	2	2	2	1	1
## 111	1	1	1	1	1	1	1	1
## 112	2	2	2	2	2	0	2	2
## 113	1	1	1	1	1	1	1	1
## 114	0	0	0	0	0	0	0	0
## 115	0	0	0	0	0	0	0	0
## 116	0	0	0	0	0	0	0	0

##	cn_ABCA6	cn_ABCA10	cn_KCNJ16	cn_SSTR2	cn_SDK2	cn_KIF19	cn_FOXJ1
----	----------	-----------	-----------	----------	---------	----------	----------

## 1	0	0	0	0	0	0	0
## 2	1	1	1	1	1	1	1
## 3	1	1	1	1	1	1	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	-1	-1	2	2	2	-1	-1
## 10	0	0	0	0	0	0	0
## 11	1	1	1	1	1	1	1
## 12	0	0	0	0	0	0	0
## 13	1	1	1	1	1	1	1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1
## 18	1	1	1	1	1	1	1
## 19	-1	-1	-1	-1	-1	-1	-1

## 20	0	0	0	0	0	0	0
## 21	1	1	1	1	1	1	1
## 22	-1	-1	-1	-1	-1	-1	-1
## 23	-1	-1	-1	-1	-1	-1	-1
## 24	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0
## 26	1	1	1	1	1	1	-1
## 27	0	0	0	0	0	0	0
## 28	1	1	1	1	1	1	1
## 29	1	1	1	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1
## 32	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	0	0	0	0	0	0	0
## 36	0	0	0	0	0	0	0
## 37	1	1	1	1	1	1	1
## 38	0	0	0	0	0	0	0
## 39	1	1	1	1	1	1	1
## 40	-1	-1	-1	-1	-1	-1	-1
## 41	1	1	1	1	1	1	1
## 42	1	1	1	1	1	1	1
## 43	0	0	0	0	0	0	0
## 44	2	2	2	2	2	2	2
## 45	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	0	0	0	0	0	0	0
## 49	1	1	1	1	1	1	1
## 50	0	0	0	0	0	0	0
## 51	-1	-1	-1	1	2	1	1

## 52	0	0	0	0	0	0	0
## 53	2	2	2	1	1	1	0
## 54	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0
## 56	-1	-1	0	0	0	0	0
## 57	-1	-1	-1	-1	-1	-1	-1
## 58	0	0	0	0	-1	-1	0
## 59	1	1	1	1	1	1	1
## 60	1	1	1	1	1	1	1
## 61	0	0	0	0	0	0	0
## 62	1	1	2	1	1	2	1
## 63	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	-1	-1	-1	-1	-1	-1	-1
## 69	-1	-1	-1	-1	-1	-1	-1
## 70	1	1	2	1	1	1	1
## 71	0	0	0	0	0	0	0
## 72	1	1	1	1	1	1	1
## 73	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0
## 76	-1	-1	1	1	1	1	1
## 77	-1	-1	-1	-1	-1	-1	-1
## 78	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0
## 80	1	1	1	1	1	1	1
## 81	0	0	0	0	0	0	0
## 82	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1

## 84	-1	-1	-1	-1	-1	-1	-1
## 85	0	0	0	0	0	0	0
## 86	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0
## 88	2	2	2	2	2	2	2
## 89	0	0	0	0	0	0	0
## 90	1	1	1	1	1	1	1
## 91	0	0	0	0	0	0	0
## 92	0	0	0	0	0	0	0
## 93	1	1	1	1	1	1	1
## 94	0	0	0	0	-1	-1	-1
## 95	0	0	0	0	0	0	0
## 96	-1	-1	-1	0	2	-1	2
## 97	0	0	0	0	0	0	0
## 98	2	2	2	2	2	2	1
## 99	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1
## 101	1	1	1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1
## 105	2	2	2	2	2	2	2
## 106	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0
## 108	2	2	2	2	1	1	1
## 109	0	0	0	0	0	0	0
## 110	1	1	1	2	1	1	1
## 111	1	1	1	1	1	1	1
## 112	2	2	-1	-1	-2	-1	-1
## 113	1	1	1	1	1	1	1
## 114	0	0	0	0	0	0	0
## 115	0	0	0	0	0	0	0

## 116	0	0	0	0	0	0	0
##	cn_ST6GALNAC1	cn_MGAT5B	cn_BIRC5	cn_CBX2	cn_NPTX1	cn_NOTUM	cn_CLUL1
## 1	0	0	0	0	0	0	0
## 2	1	1	1	1	1	1	0
## 3	0	0	1	1	1	1	-1
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	-1
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	1
## 9	-1	-1	1	1	-1	-1	-1
## 10	0	0	0	0	0	0	0
## 11	1	1	1	1	1	1	0
## 12	0	0	0	1	1	1	-1
## 13	1	1	1	1	1	1	1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	0
## 18	1	1	1	1	1	1	-1
## 19	-1	-1	-1	-1	-1	-1	0
## 20	0	0	2	0	0	0	0
## 21	1	1	1	1	1	1	0
## 22	-1	-1	1	-1	-1	-1	1
## 23	-1	-1	-1	-1	-1	-1	-1
## 24	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0
## 26	1	1	1	1	1	1	-1
## 27	0	0	0	0	0	0	0
## 28	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0

## 31	1	1	1	1	1	1	-1
## 32	1	1	1	1	1	1	-1
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	0	0	0	0	0	-1	-1
## 36	0	0	0	0	0	0	0
## 37	1	1	1	1	1	1	0
## 38	0	0	0	0	0	0	0
## 39	1	1	1	1	1	1	0
## 40	-1	-1	-1	-1	-1	-1	-1
## 41	1	1	1	1	1	2	0
## 42	1	1	1	1	1	2	0
## 43	0	0	0	0	0	0	1
## 44	2	2	2	2	2	2	0
## 45	0	0	0	0	0	0	-1
## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	0	0	0	0	0	0	0
## 49	1	1	1	1	1	1	0
## 50	0	0	0	0	0	0	0
## 51	1	1	1	2	1	1	-1
## 52	0	0	0	0	0	0	0
## 53	0	0	2	0	0	-1	0
## 54	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	-1
## 56	0	0	0	0	0	0	1
## 57	-1	-1	-1	-1	-1	-1	-1
## 58	0	0	0	0	0	0	-1
## 59	1	1	1	1	1	1	2
## 60	1	1	1	1	1	1	-1
## 61	0	0	0	0	0	0	1
## 62	1	1	1	1	1	1	1

## 63	1	1	1	1	1	1	-1
## 64	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	-1	-1	-1	-1	-1	-1	0
## 69	-1	-1	-1	-1	-1	-1	0
## 70	2	1	2	2	1	1	0
## 71	0	0	0	0	0	0	-1
## 72	1	1	1	1	1	2	-1
## 73	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0
## 76	1	1	1	1	1	1	1
## 77	-1	-1	-1	-1	-1	-1	0
## 78	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0
## 80	1	1	1	1	1	1	1
## 81	0	0	0	0	0	0	1
## 82	1	1	1	1	1	1	-1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	-1	-1	-1	-1	-1	-1	0
## 85	0	0	0	0	0	0	0
## 86	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0
## 88	2	2	2	0	0	0	-2
## 89	0	0	0	0	0	0	-1
## 90	1	1	1	1	1	1	1
## 91	0	0	0	0	0	0	1
## 92	0	0	0	0	0	0	-1
## 93	1	1	1	1	2	2	1
## 94	-1	-1	-1	0	0	0	0

## 95	0	0	0	0	0	0	0
## 96	0	0	0	0	0	-1	0
## 97	0	0	0	1	1	1	0
## 98	1	1	1	1	1	1	-1
## 99	1	1	1	1	1	1	-1
## 100	1	1	1	1	1	1	0
## 101	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1
## 105	2	2	2	2	2	2	0
## 106	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0
## 108	1	1	1	1	1	-1	1
## 109	0	0	0	0	0	0	0
## 110	1	1	1	1	1	1	-1
## 111	1	1	1	0	0	0	-1
## 112	-1	-1	-1	-1	-1	0	0
## 113	1	1	1	1	1	1	1
## 114	0	0	0	0	0	0	1
## 115	0	0	0	0	0	0	1
## 116	0	0	0	0	0	0	0
##	cn_ADCYAP1	cn_MYOM1	cn_DLGAP1	cn_LAMA1	cn_CIDEA	cn_CXADRP3	cn_ANKRD30B
## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	-1	-1	-1	-1	-1	-1	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	1
## 9	-1	1	1	1	2	0	0

## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0
## 12	-1	-1	-1	-1	-1	-1	-1
## 13	1	1	1	1	1	1	-1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0
## 17	0	0	0	0	0	0	0
## 18	-1	-1	-1	-1	-1	-1	-1
## 19	0	0	0	0	0	0	0
## 20	0	0	0	0	0	0	-1
## 21	0	0	0	0	0	0	0
## 22	1	1	1	-2	-1	-1	-1
## 23	-1	-1	-1	-1	0	0	0
## 24	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1
## 27	0	0	0	0	0	0	0
## 28	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1
## 32	-1	-1	-1	-1	-1	-1	-1
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	-1	-1	-1	-1	-1	-1	0
## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	-1
## 39	0	0	0	0	0	0	0
## 40	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0

## 42	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1
## 44	0	0	0	0	0	0	0
## 45	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	0	0	0	0	0	1	1
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0
## 53	0	0	-1	-1	-1	-1	-1
## 54	0	0	0	0	0	0	0
## 55	-1	-1	-1	-1	-1	-1	-1
## 56	1	1	1	1	1	1	1
## 57	-1	-1	-1	-1	-1	-1	-1
## 58	-1	-1	-1	-1	-1	-1	-1
## 59	2	2	2	2	2	2	0
## 60	-1	-1	-1	-1	-1	-1	-1
## 61	1	1	1	1	1	1	1
## 62	1	1	1	1	-1	-1	1
## 63	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0
## 71	-1	-1	-1	-1	-1	-1	-1
## 72	-1	-1	-1	-1	-1	-1	-1
## 73	0	0	0	0	0	0	0

## 74	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0
## 76	1	-2	-2	-1	-1	2	1
## 77	0	0	0	0	0	0	0
## 78	1	-1	-1	1	1	1	-1
## 79	0	0	0	0	0	0	0
## 80	1	1	1	1	1	1	1
## 81	1	1	1	1	1	1	1
## 82	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0
## 85	0	0	0	0	1	0	0
## 86	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0
## 88	-2	-2	-2	-2	0	1	0
## 89	-1	-1	-1	-1	-1	-1	-1
## 90	1	1	1	1	1	1	-1
## 91	1	1	1	1	1	1	1
## 92	-1	-1	-1	-1	-1	-1	-1
## 93	1	1	1	1	1	1	1
## 94	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0
## 98	-1	-1	-1	-1	-1	-1	-1
## 99	-1	-1	-1	-1	-1	-1	-1
## 100	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0

## 106	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0
## 108	1	1	-1	-1	-1	-1	0
## 109	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1
## 111	-1	-1	-1	-1	-1	-1	-1
## 112	0	0	0	0	0	0	0
## 113	1	1	1	1	1	1	-1
## 114	1	1	1	1	1	1	1
## 115	1	1	1	1	1	1	1
## 116	0	0	0	0	0	0	0

[illegible]

##	cn_NOL4	cn_SLC39A6	cn_SLC14A2	cn_SIGLEC15	cn_MAPK4	cn_CCDC68	cn_ONECUT2
## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	1	1	0	0	0	0	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1
## 7	0	0	-1	-1	-1	-1	-1
## 8	2	2	2	2	1	1	0
## 9	1	1	2	1	-1	-1	-1
## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0
## 12	-1	-1	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0
## 17	0	1	0	0	0	0	0
## 18	-1	-1	-1	-1	-1	-1	-1
## 19	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-2	-1	-1
## 21	0	0	0	0	0	0	0
## 22	-1	-1	-1	-1	-1	-1	-1
## 23	0	0	0	0	0	0	0
## 24	1	2	1	1	1	1	1
## 25	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0
## 27	0	0	0	0	0	0	0
## 28	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1

## 32	-1	-1	-1	-1	-1	-1	-1
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	0	0	0	0	0	0	0
## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1
## 39	0	0	0	0	0	0	0
## 40	-1	-1	-1	-1	-1	-1	-1
## 41	-1	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1
## 44	0	0	0	0	0	0	0
## 45	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	-1
## 54	0	0	0	0	0	-1	-1
## 55	-1	-1	-1	-1	-1	-1	-1
## 56	1	1	1	1	1	1	1
## 57	-1	-1	-1	-1	-1	-1	-1
## 58	-1	-1	-1	-1	-1	-1	-1
## 59	-1	-1	-1	-1	-1	-1	0
## 60	-1	-1	-1	-1	-1	-1	-1
## 61	1	1	1	1	1	1	1
## 62	1	1	1	1	-1	-1	-1
## 63	-1	-1	-1	-1	-1	-1	-1

## 64	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	0	0	-1	-1	-1	-1	-1
## 71	-1	-1	-1	-1	-1	-1	-1
## 72	-1	-1	-1	-1	-1	-1	-1
## 73	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0
## 76	1	1	1	1	1	1	1
## 77	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1
## 79	0	0	0	0	0	0	0
## 80	-1	-1	-1	-1	-1	-1	-1
## 81	1	1	1	1	1	1	1
## 82	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0
## 85	0	0	0	0	0	0	0
## 86	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0
## 88	0	-2	0	0	0	0	0
## 89	-1	-1	-1	-1	-1	-1	-1
## 90	-1	-1	-1	-1	-1	-1	-1
## 91	-1	-1	-1	-1	-1	-1	-1
## 92	-1	-1	-1	-1	-1	0	0
## 93	1	1	1	1	1	1	1
## 94	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0

## 96	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0
## 98	1	1	1	1	-1	1	1
## 99	-1	-1	-1	-1	-1	-1	-1
## 100	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0
## 106	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0
## 108	0	0	0	0	0	0	0
## 109	0	0	0	0	0	0	0
## 110	-1	-1	1	-1	-1	-1	-1
## 111	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0
## 113	-1	-1	-1	-1	-1	-1	-1
## 114	1	1	1	1	1	1	1
## 115	1	1	1	1	1	1	1
## 116	0	0	0	0	0	0	0

##	cn_GRP	cn_SERPINB5	cn_SERPINB3	cn_SERPINB7	cn_SERPINB2	cn_CDH7	cn_CDH19
## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1
## 7	-1	-1	-1	-1	-1	-1	-1
## 8	0	0	0	0	0	0	0
## 9	-1	2	2	2	2	2	2
## 10	0	0	0	0	0	0	0

## 11	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0
## 17	0	0	0	0	0	0	0
## 18	-1	-1	-1	-1	-1	-1	-1
## 19	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-1	-1	-1
## 21	0	0	0	0	0	0	0
## 22	-1	-1	-1	-1	-1	-1	-1
## 23	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0
## 27	0	0	0	0	0	0	0
## 28	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1
## 32	-1	-1	-1	-1	-1	-1	-1
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	0	0	0	0	0	0	0
## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1
## 39	0	0	0	0	0	0	0
## 40	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0

## 43	1	1	1	1	1	1	1
## 44	0	0	0	0	0	0	0
## 45	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	-1
## 54	-1	-1	-1	-1	-1	-1	-1
## 55	-1	-1	-1	-1	-1	-1	-1
## 56	1	1	1	1	1	1	1
## 57	-1	-1	-1	-1	-1	-1	-1
## 58	-1	-1	-1	-1	-1	-1	-1
## 59	0	-1	-1	-1	-1	-1	-1
## 60	-1	-1	-1	-1	-1	-1	-1
## 61	1	1	1	1	1	1	1
## 62	-1	-1	-1	-1	-1	-1	-1
## 63	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	-1
## 71	-1	-1	-1	-1	-1	-1	-1
## 72	-1	-1	-1	-1	-1	-1	-1
## 73	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1

## 75	0	0	0	0	0	0	0
## 76	1	1	1	1	1	1	1
## 77	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1
## 79	0	0	0	0	0	0	0
## 80	-1	-1	-1	-1	-1	-1	-1
## 81	1	1	1	1	1	1	1
## 82	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0
## 85	0	0	0	0	0	0	0
## 86	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	0
## 89	-1	-1	-1	-1	-1	-1	-1
## 90	-1	-1	-1	-1	-1	-1	-1
## 91	-1	-1	-1	-1	-1	-1	-1
## 92	0	0	0	0	0	0	0
## 93	1	1	1	1	1	1	1
## 94	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0
## 98	1	2	2	2	2	2	2
## 99	-1	-1	-1	-1	-1	-1	-1
## 100	0	0	0	0	0	0	0
## 101	-1	-1	-1	-1	-1	-1	-1
## 102	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	0	0
## 106	1	1	1	1	1	1	1

## 107	0	0	0	0	0	0	0
## 108	0	0	0	0	0	0	0
## 109	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1
## 111	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0
## 113	-1	-1	-1	-1	-1	-1	-1
## 114	1	1	1	1	1	1	1
## 115	1	1	1	1	1	1	1
## 116	0	0	0	0	0	0	0

##	cn_CBLN2	cn_NET01	cn_GZMM	cn_HCN2	cn_AZU1	cn_LPPR3	cn_CFD	cn_KISS1R
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## 1	0	0	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	1	1	-1	-1	-1	-1	-1	-1
## 4	0	0	-1	-1	-1	-1	-1	-1
## 5	0	0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	-1	-1	-1	-1
## 7	-1	-1	0	0	0	0	0	0
## 8	1	1	-1	-1	-1	-1	-1	-1
## 9	2	2	-1	-1	-1	-1	-1	-1
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	0	0	1	1	1	1	1	1
## 18	-1	-1	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-1	-1	-1	-1
## 21	0	0	0	0	0	0	0	0

## 22	-1	-1	-1	-1	-1	-1	-1	-1
## 23	0	0	1	1	1	1	1	1
## 24	1	1	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0	0
## 26	0	0	-1	-1	-1	-1	-1	-1
## 27	0	0	-1	-1	-1	-1	-1	-1
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	-1	-1	1	1	1	1	1	1
## 32	-1	-1	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	0	0	-1	-1	-1	-1	-1	-1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	0	0	0	0	0	0
## 39	0	0	0	0	0	0	0	0
## 40	-1	-1	-2	-2	-2	-2	-2	-2
## 41	0	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0	0
## 43	1	1	0	0	0	0	0	0
## 44	0	0	-1	-1	-1	-1	-1	-1
## 45	-1	-1	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	1	1	1	1	1	1
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	-1	-1	-2	-2	-2	-2	-2	-2
## 52	0	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	-1	-1

## 54	-1	-1	-1	-1	-1	-1	-1	-1
## 55	-1	-1	0	0	0	0	0	0
## 56	1	1	-1	-1	-1	-1	-1	-1
## 57	-1	-1	0	0	0	0	0	0
## 58	-1	-1	0	0	0	0	0	0
## 59	-1	-1	0	0	0	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	1	1	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	-1	-1	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	-1	-1	0	0	0	0	0	0
## 71	-1	-1	0	0	0	0	0	0
## 72	-1	-1	-1	-1	-1	-1	-1	-1
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	0	-2	-2	-2	-2	-2	-2
## 76	1	1	1	1	1	1	1	1
## 77	0	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1	-1
## 79	0	0	1	1	1	1	1	1
## 80	-1	-1	-1	-1	-1	-1	-1	-1
## 81	1	1	-1	-1	-1	-1	-1	-1
## 82	-1	-1	0	0	0	0	0	0
## 83	-1	-1	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	0	0	-1	-1	-1	-1	-1	-1

## 86	1	1	0	0	0	0	0	0	
## 87	0	0	0	0	0	0	0	0	
## 88	0	0	-1	-1	-1	-1	-1	-1	
## 89	-1	-1	0	0	0	0	0	0	
## 90	1	1	-1	-1	-1	-1	-1	-1	
## 91	-1	-1	-1	-1	-1	-1	-1	-1	
## 92	0	0	-1	-1	-1	-1	-1	-1	
## 93	1	1	-1	-1	-1	-1	-1	-1	
## 94	0	0	0	0	0	0	0	0	
## 95	0	0	0	0	0	0	0	0	
## 96	0	0	0	0	0	0	0	0	
## 97	0	0	-1	-1	0	0	0	0	
## 98	1	1	-1	-1	-1	-1	-1	-1	
## 99	-1	-1	-1	-1	-1	-1	-1	-1	
## 100	0	0	-2	-2	-2	-2	-2	-2	
## 101	-1	-1	0	0	0	0	0	0	
## 102	0	0	0	0	0	0	0	0	
## 103	0	0	0	0	0	0	0	0	
## 104	-1	-1	0	0	0	0	0	0	
## 105	0	0	1	1	2	2	2	2	
## 106	1	1	0	0	0	0	0	0	
## 107	0	0	0	0	0	0	0	0	
## 108	0	0	-1	-1	-1	-1	-1	-1	
## 109	0	0	0	0	0	0	0	0	
## 110	-1	-1	-1	-1	-1	-1	-1	-1	
## 111	0	0	0	0	0	0	0	0	
## 112	0	0	-1	-1	-1	-1	-1	-1	
## 113	-1	-1	0	0	0	0	0	0	
## 114	1	1	0	0	0	0	0	0	
## 115	1	1	1	1	1	1	1	1	
## 116	0	0	0	0	0	0	0	0	
##	cn_CELF5	cn_ZFR2	cn_LRG1	cn_PLIN4	cn_PLIN5	cn_FUT3	cn_FUT6	cn_CAPS	cn_PCP2

## 12	0	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1	1
## 18	0	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-1	-1	-1	-1
## 21	0	0	0	0	0	0	0	0
## 22	-1	-1	1	2	2	0	0	0
## 23	1	1	1	1	1	1	1	1
## 24	1	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	0	0
## 39	0	0	0	0	0	0	0	0
## 40	1	1	1	1	1	1	1	1
## 41	2	2	2	1	1	1	1	1
## 42	0	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0	0

## 44	2	2	2	2	2	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	1	1	1	1	1	1	1	1
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	0	0	0	0	0	0	0	0
## 52	0	0	0	0	0	0	0	0
## 53	-1	-1	0	0	0	1	1	0
## 54	-1	-1	-1	-1	-1	-1	-1	1
## 55	0	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	0	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0	0
## 72	-1	-1	-1	-1	-1	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	1	1	1	1	1	1	1	1

## 76	1	1	1	1	1	1	1	1
## 77	0	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	0	1
## 79	1	1	1	1	1	1	1	1
## 80	-1	-1	-1	1	1	-1	-1	-1
## 81	-1	-1	2	2	2	2	2	1
## 82	0	0	0	0	0	0	0	0
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	0	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0	0
## 88	1	1	1	1	1	1	1	1
## 89	0	0	0	0	0	0	0	0
## 90	-1	-1	-1	-1	-1	-1	-1	-1
## 91	-1	-1	-1	-1	-1	-1	-1	-1
## 92	-1	-1	-1	-1	-1	-1	-1	-1
## 93	0	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0	0
## 97	-1	-1	-1	-1	-1	-1	1	-1
## 98	-1	-1	-1	-1	-1	0	0	0
## 99	-1	-1	-1	-1	-1	-1	-1	-1
## 100	0	0	0	0	0	0	0	0
## 101	0	0	0	0	0	0	0	0
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	2	2	2	2	2	-1	-1	2
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0

## 108	-1	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1	-1
## 111	0	0	0	0	0	0	0	0
## 112	-1	-1	-1	-1	-1	2	2	-1
## 113	0	0	0	1	1	-2	-1	-1
## 114	0	0	0	0	0	0	0	0
## 115	1	1	1	1	1	1	1	1
## 116	0	0	0	0	0	0	0	0

##	cn_CASP14	cn_PGLYRP2	cn_CYP4F22	cn_CYP4F8	cn_CYP4F3	cn_CYP4F12	cn_UCA1
----	-----------	------------	------------	-----------	-----------	------------	---------

## 1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0
## 3	-1	-1	-1	-1	-1	-1	-1
## 4	-1	-1	-1	-1	-1	-1	-1
## 5	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	2	2	2	2	2	2	2
## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1
## 18	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-1	-1	-1
## 21	0	0	0	0	0	0	0
## 22	0	0	0	0	0	0	0

## 23	1	1	1	1	1	1	1
## 24	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1
## 28	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1
## 32	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	0
## 39	0	0	0	0	0	0	0
## 40	1	1	1	1	1	1	1
## 41	1	1	1	1	1	1	1
## 42	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0
## 44	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0
## 47	1	1	1	1	1	1	1
## 48	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	0	0	0	0	0	0	0
## 52	0	0	0	0	0	0	0
## 53	0	0	0	0	0	0	0
## 54	1	1	1	1	1	1	1

## 55	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1
## 63	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1
## 75	1	1	1	1	1	1	1
## 76	1	1	1	1	1	1	1
## 77	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1
## 79	1	1	1	1	1	1	1
## 80	-1	-1	-1	-1	-1	-1	-1
## 81	1	1	1	1	1	1	1
## 82	0	0	0	0	0	0	0
## 83	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1
## 86	0	0	0	0	0	0	0

## 2	0	0	0	0	0	0	0	0
## 3	-1	-1	-1	-1	1	1	1	1
## 4	-1	-1	-1	-1	0	0	0	2
## 5	0	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	1	1	1	0
## 9	2	2	2	2	1	1	1	2
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	-1	-1	-1	-1	0	0	0	0
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1	1
## 18	0	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	2	-1	-1	-1
## 21	0	0	0	0	0	0	0	0
## 22	0	0	0	0	0	0	0	0
## 23	1	1	1	1	-1	-1	-1	-1
## 24	1	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	1	1	1	1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0

## 34	0	0	0	0	1	1	1	1
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	1	1	1	1
## 37	0	0	0	0	0	0	0	0
## 38	0	0	0	0	-1	-1	-1	-1
## 39	0	0	0	0	0	0	0	0
## 40	1	1	1	1	2	2	2	2
## 41	1	1	1	1	0	0	0	0
## 42	0	0	0	0	0	0	0	0
## 43	0	0	0	0	1	1	1	1
## 44	1	1	1	1	2	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	1	1	1	1	1	1	1	1
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	0	0	0	0	0	0	0	0
## 52	0	0	0	0	0	0	0	0
## 53	0	1	1	1	-1	-1	-1	-1
## 54	1	1	1	1	1	1	1	1
## 55	0	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	2	2	2	2
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	0	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	-1	-1	-1	1

## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	1	1	1	1	0	0	0	0
## 76	1	1	1	1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	1	1	1	-1	1	1	1	1
## 79	1	1	1	1	1	1	1	1
## 80	-1	1	-1	-1	2	2	2	2
## 81	1	2	2	1	1	1	1	2
## 82	0	0	0	0	0	0	0	0
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	1	1	1	1
## 86	0	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0	0
## 88	1	1	1	1	1	1	1	0
## 89	0	0	0	0	0	0	0	0
## 90	-1	0	0	0	0	0	0	0
## 91	-1	-1	-1	-1	0	0	0	0
## 92	-1	-1	-1	-1	-1	-1	-1	1
## 93	0	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0	0
## 97	-1	-1	-1	-1	-1	-1	-1	-1

## 98	0	0	0	0	0	0	0	0
## 99	-1	-1	-1	-1	0	0	0	0
## 100	0	0	0	0	0	0	0	1
## 101	0	0	0	0	0	0	0	0
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	2	2	2	2	0	0	0	0
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	0	0	0	1
## 111	0	0	0	0	0	0	0	-1
## 112	-1	-1	-1	-1	2	2	2	2
## 113	-1	-1	-1	2	0	0	0	0
## 114	0	0	0	0	0	0	0	0
## 115	1	1	1	1	1	1	1	1
## 116	0	0	0	0	0	0	0	0

##	cn_FXYD1	cn_MAG	cn_FFAR2	cn_DMKN	cn_SBSN	cn_UPK1A	cn_HSPB6	cn_APLP1
## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1
## 4	-1	-1	-1	-1	-1	-1	-1	-1
## 5	0	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	2	2	2	2	2	2	2	2
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0

## 13	0	0	0	0	0	0	0	0
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1	1
## 18	0	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-1	-1	-1	-1
## 21	0	0	0	0	0	0	0	0
## 22	0	0	0	0	0	0	0	0
## 23	-1	-1	-1	-1	-1	-1	-1	-1
## 24	1	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	1	1	1	1	1	1	1	1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	1	1	1	1	1	1	1	1
## 35	1	1	1	1	1	1	1	1
## 36	1	1	1	1	1	1	1	1
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	0	0	0	0	0	0	0	0
## 40	2	2	2	2	2	2	2	2
## 41	0	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1	1
## 44	1	1	1	1	1	1	1	1

## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	1	1	1	1	1	1	1	1
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	0	0	0	0	0	0	0	0
## 52	0	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	-1	-1
## 54	1	1	1	1	1	1	1	1
## 55	0	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	2	2	2	2	2	1	1	1
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	0	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1	-1

## 77	0	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1	1
## 79	1	1	1	1	1	1	1	1
## 80	2	2	2	2	2	2	2	2
## 81	2	2	2	2	2	2	2	2
## 82	0	0	0	0	0	0	0	0
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	1	1	1	1	1	1	1	1
## 86	0	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	0	0
## 89	0	0	0	0	0	0	0	0
## 90	0	0	0	0	0	0	0	0
## 91	0	0	0	0	0	0	0	0
## 92	1	1	1	1	1	1	1	1
## 93	0	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0	0
## 97	-1	-1	-1	-1	-1	-1	-1	-1
## 98	0	0	0	0	0	0	0	0
## 99	0	0	0	0	0	0	0	0
## 100	1	1	1	1	1	1	1	1
## 101	0	0	0	0	0	0	0	0
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	-1	-1	-1	-1

## 109	0	0	0	0	0	0	0	0
## 110	1	0	0	0	0	0	0	0
## 111	-1	-1	-1	-1	-1	-1	-1	-1
## 112	2	2	2	2	2	2	2	2
## 113	0	0	0	0	0	0	0	0
## 114	0	0	0	0	0	0	0	0
## 115	1	1	1	1	1	1	1	1
## 116	0	0	0	0	0	0	0	0
##	cn_PPP1R14A	cn_C19orf33	cn_RYR1	cn_LGALS7	cn_LGALS7B	cn_NCCRP1	cn_DLL3	
## 1	1		1	1	1	1	1	1
## 2	0		0	0	0	0	0	0
## 3	1		1	1	1	1	1	1
## 4	2		2	2	2	2	2	2
## 5	0		0	0	0	0	0	0
## 6	2		2	2	2	2	2	2
## 7	0		0	0	0	0	0	0
## 8	0		0	0	0	0	0	0
## 9	-1		-1	-1	-1	-1	1	2
## 10	0		0	0	0	0	0	0
## 11	0		0	0	0	0	0	0
## 12	0		0	0	0	0	0	0
## 13	0		0	0	0	0	0	0
## 14	0		0	0	0	0	0	0
## 15	0		0	0	0	0	0	0
## 16	0		0	0	0	0	0	0
## 17	1		1	1	1	1	1	1
## 18	0		0	0	0	0	0	0
## 19	0		0	0	0	0	0	0
## 20	2		2	2	2	-1	2	2
## 21	0		0	0	0	0	0	0
## 22	1		1	1	1	1	1	1
## 23	-1		-1	-1	-1	-1	-1	-1

## 24	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0
## 26	1	1	1	1	1	1	1
## 27	-1	-1	-1	-1	-1	-1	-1
## 28	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1
## 32	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0
## 34	1	1	1	1	1	1	1
## 35	1	1	1	1	1	1	1
## 36	2	2	2	2	2	2	2
## 37	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1
## 39	0	0	0	0	0	0	0
## 40	2	2	2	2	2	2	2
## 41	0	0	0	0	-1	0	0
## 42	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1
## 44	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0
## 47	1	1	1	1	1	1	1
## 48	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	0	0	0	0	0	0	0
## 52	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	-1
## 54	1	1	1	1	1	1	1
## 55	0	0	0	0	0	0	0

## 56	0	0	0	0	0	0	1
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	0	0	-1	-1	-1	0	0
## 60	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1
## 63	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0
## 65	1	1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1
## 79	1	1	1	1	1	1	1
## 80	1	1	1	1	1	1	1
## 81	2	2	2	1	1	2	2
## 82	0	0	0	0	0	0	0
## 83	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0
## 85	2	2	2	2	2	2	2
## 86	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0

## 88	0	0	0	0	0	0	0
## 89	0	0	0	0	0	0	0
## 90	0	0	0	0	0	0	0
## 91	0	0	0	0	0	0	0
## 92	-1	-1	-1	-1	-1	-1	-1
## 93	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0
## 97	-1	-1	-1	-1	-1	-1	-1
## 98	0	0	0	0	0	0	0
## 99	0	0	0	0	0	0	0
## 100	1	1	1	1	1	1	1
## 101	0	0	0	0	0	0	0
## 102	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0
## 110	0	0	0	0	0	0	0
## 111	-1	-1	-1	-1	-1	-1	-1
## 112	2	2	2	2	2	2	2
## 113	0	0	0	0	0	0	0
## 114	0	0	0	0	0	0	0
## 115	1	1	1	1	1	1	1
## 116	0	0	0	0	0	0	0
##	cn_FCGBP	cn_CNTD2	cn_MIA	cn_CYP2A6	cn_CYP2A7	cn_CYP2B7P1	cn_CEACAM7
## 1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0

## 3	1	1	1	1	1	1	1
## 4	2	1	2	2	2	2	2
## 5	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0
## 8	0	0	-1	-1	-1	-1	-1
## 9	2	1	2	1	1	1	1
## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0
## 13	0	0	0	0	0	0	0
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1
## 18	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0
## 20	2	2	2	2	2	2	2
## 21	0	0	0	0	0	0	0
## 22	1	1	1	1	1	1	1
## 23	-1	-1	-1	-1	-1	-1	-1
## 24	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0
## 26	1	1	1	1	1	1	1
## 27	-1	-1	-1	-1	-1	-1	-1
## 28	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1
## 32	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0
## 34	1	1	1	1	1	1	1

## 35	1	1	1	1	1	1	1
## 36	2	2	2	2	2	2	2
## 37	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1
## 39	0	0	0	0	0	0	0
## 40	2	2	2	2	2	2	2
## 41	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1
## 44	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0
## 47	1	1	1	1	1	1	1
## 48	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	0	0	0	0	0	0	0
## 52	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	-1
## 54	1	1	1	1	1	1	1
## 55	0	0	0	0	0	0	0
## 56	1	1	1	2	2	2	-1
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1
## 63	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0

## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1
## 79	1	1	1	1	1	1	1
## 80	1	1	1	1	1	1	1
## 81	2	-1	-1	-1	-1	-1	-1
## 82	0	0	0	0	0	0	0
## 83	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0
## 85	2	2	2	2	2	1	1
## 86	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	0
## 89	0	0	0	0	0	0	0
## 90	0	0	0	0	0	0	0
## 91	0	0	0	0	0	0	0
## 92	-1	-1	-1	-1	-1	-1	-1
## 93	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0
## 97	-1	-1	-1	-1	-1	-1	-1
## 98	0	0	0	0	0	0	0

## 99	0	0	0	0	0	0	1
## 100	1	1	1	1	1	1	1
## 101	0	0	0	0	0	0	0
## 102	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0
## 110	0	0	0	0	0	0	0
## 111	-1	-1	-1	-1	-1	-1	-1
## 112	2	2	2	2	2	2	2
## 113	0	0	0	0	0	0	0
## 114	0	0	0	0	0	0	0
## 115	1	1	1	1	1	1	1
## 116	0	0	0	0	0	0	0

## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1	1
## 18	0	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0	0
## 20	2	2	2	2	-1	-1	-1	-1
## 21	0	0	0	0	0	0	0	0
## 22	1	1	1	1	1	1	1	1
## 23	-1	-1	-1	-1	-1	-1	-1	-1
## 24	1	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	1	1	1	1	1	1	1	1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	1	1	1	1	1	1	1	1
## 35	1	1	1	1	1	1	1	1
## 36	2	2	2	2	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	0	0	0	0	0	0	0	0
## 40	2	2	2	2	-1	2	2	2
## 41	0	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1	1
## 44	1	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0	0

## 46	0	0	0	0	0	0	0	0
## 47	1	1	1	1	1	1	1	1
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	0	0	0	0	0	0	0	0
## 52	0	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	-1	-1
## 54	1	1	1	1	1	1	1	1
## 55	0	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1	-1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	-1	-1	-1
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	0	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0

## 78	1	1	1	1	1	1	1	1
## 79	1	1	1	1	1	1	1	1
## 80	1	1	1	1	1	1	2	2
## 81	-1	-1	-1	-1	-1	-1	-1	-1
## 82	0	0	0	0	0	0	0	0
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	1	1	1	1	1	2	1	1
## 86	0	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	0	0
## 89	0	0	0	0	0	0	0	0
## 90	0	0	0	0	0	0	0	0
## 91	0	0	0	0	1	1	1	1
## 92	-1	-1	-1	-1	-1	-1	-1	-1
## 93	0	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0	0
## 97	-1	-1	-1	-1	-1	2	-1	-1
## 98	0	0	0	0	0	0	0	0
## 99	1	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1	1
## 101	0	0	0	0	0	0	0	0
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0	0

## 110	0	0	0	0	0	0	0	0
## 111	-1	-1	-1	-1	-1	-1	-1	-1
## 112	2	2	2	2	2	2	2	2
## 113	0	0	0	0	0	0	0	0
## 114	0	0	0	0	0	0	0	0
## 115	1	1	1	1	1	1	1	1
## 116	0	0	0	0	0	0	0	0

##	cn_KCNC3	cn_SPIB	cn_KLK6	cn_KLK7	cn_KLK8	cn_KLK10	cn_KLK11	cn_KLK12
## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1
## 4	0	0	1	1	1	1	1	1
## 5	0	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	1	1
## 9	-1	-1	1	1	1	1	1	1
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	0	0	0	0	0	0	0	0
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1	1
## 18	0	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-1	-1	-1	-1
## 21	0	0	0	0	0	0	0	0
## 22	-1	-1	-1	-1	-1	-1	-1	-1
## 23	-1	-1	-1	-1	-1	-1	-1	-1
## 24	1	1	1	1	1	1	1	1

## 25	0	0	0	0	0	0	0	0
## 26	1	1	1	1	1	1	1	1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	1	1	1	1	1	1	1	1
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	0	0	0	0	0	0	0	0
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	1	1	1	1	1	1	1	1
## 42	0	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1	1
## 44	1	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	1	1	1	1	1	1	1	1
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	0	0	0	0	0	0	0	0
## 52	0	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	-1	-1
## 54	1	1	1	1	1	1	1	1
## 55	0	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1	-1

## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	-1	-1	-1	-1	-1	-1	-1	-1
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	0	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0	0
## 72	1	1	1	1	1	1	1	1
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1	1
## 79	1	1	1	1	1	1	1	1
## 80	1	1	1	1	1	1	1	1
## 81	-1	-1	-1	-1	-1	-1	-1	-1
## 82	0	0	0	0	0	0	0	0
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	1	1	1	1	1	1	1	1
## 86	0	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	0	0

## 89	0	0	0	0	0	0	0	0
## 90	0	0	0	0	0	0	0	0
## 91	1	1	1	1	1	1	1	1
## 92	-1	-1	-1	-1	-1	-1	-1	-1
## 93	0	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0	0
## 97	-1	-1	-1	-1	-1	-1	-1	-1
## 98	0	0	0	0	0	0	0	0
## 99	1	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1	1
## 101	0	0	0	0	0	0	0	0
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0	0
## 110	0	0	0	0	0	0	0	0
## 111	-1	-1	-1	-1	-1	-1	-1	-1
## 112	2	2	2	2	2	2	2	2
## 113	0	0	0	0	0	0	0	0
## 114	0	0	0	0	0	0	0	0
## 115	1	1	1	1	1	1	1	1
## 116	0	0	0	0	0	0	0	0
##	cn_KLK13	cn_KLK14	cn_HAS1	cn_NLRP7	cn_NLRP2	cn_TNNT1	cn_TNNI3	cn_SYT5
## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1

## 4	1	1	1	-1	-1	-1	-1	-1
## 5	0	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	1	1	1	1	1
## 9	1	1	1	1	1	1	1	1
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	0	0	0	0	0	0	0	0
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	1	1	1	1	1	1	1	1
## 18	0	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0	0
## 20	-1	-1	-1	2	2	2	2	2
## 21	0	0	0	0	0	0	0	0
## 22	-1	-1	-1	-1	-1	1	1	1
## 23	-1	-1	-1	0	0	0	0	0
## 24	1	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	1	1	1	1	1	1	1	1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	1	1	1	1	1	1	1	1
## 35	1	1	1	1	1	1	1	1

## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1
## 39	0	0	0	0	0	0	0	0
## 40	-1	-1	-1	0	0	0	0	0
## 41	1	1	1	1	1	1	1	1
## 42	0	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1	1
## 44	1	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	1	1	1	1	1	1	1	1
## 48	-1	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	0	0	0	0	0	0	0	0
## 52	0	0	0	0	0	0	0	0
## 53	-1	-1	1	1	1	1	1	1
## 54	1	1	1	1	1	1	1	1
## 55	0	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	-1	-1	-1	-1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	-1	-1	-1	0	0	-1	-1	-1
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	0	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1	-1
## 66	0	0	0	0	0	0	0	0
## 67	-2	0	0	0	0	0	0	0

## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0	0
## 72	1	1	1	1	1	1	1	1
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1	1
## 79	1	1	1	1	1	1	1	1
## 80	1	1	1	1	1	1	1	1
## 81	-1	-1	-1	-1	-1	-1	-1	-1
## 82	0	0	0	0	0	0	0	0
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	1	1	1	1	1	1	1	1
## 86	0	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	0	0
## 89	0	0	0	0	0	0	0	0
## 90	0	0	0	0	0	0	0	0
## 91	1	1	1	1	1	1	1	1
## 92	-1	-1	-1	-1	-1	-1	-1	-1
## 93	0	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0	0
## 97	-1	-1	-1	-1	-1	-1	-1	-1
## 98	0	0	0	0	0	0	0	0
## 99	1	1	1	1	1	1	1	1

## 100	1	1	1	1	1	1	1	1
## 101	0	0	0	0	0	0	0	0
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	0	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0	0
## 110	0	0	0	0	0	0	0	0
## 111	-1	-1	0	0	0	0	0	0
## 112	2	2	2	2	2	2	2	2
## 113	0	0	0	0	0	0	0	0
## 114	0	0	0	0	0	0	0	0
## 115	1	1	1	1	1	1	1	1
## 116	0	0	0	0	0	0	0	0

##	cn_COX6B2	cn_NLRP5	cn_PEG3	cn_ZSCAN1	cn_DEFB132	cn_RSP04	cn_SIRPG	cn_TGM3
## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1
## 4	2	2	2	2	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	2	2	-1	-1	1	1	1	1
## 7	0	0	0	0	0	0	0	0
## 8	1	1	1	1	-1	-1	-1	-1
## 9	1	-1	-1	-1	1	1	0	0
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	1	1	1	1
## 13	0	0	0	0	-1	-1	-1	1
## 14	0	0	0	0	0	0	0	0

## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	1	1	1	1
## 17	1	1	1	1	1	1	1	1
## 18	0	0	0	0	1	1	1	1
## 19	0	0	0	0	1	1	1	1
## 20	0	2	2	2	0	0	0	0
## 21	0	0	0	0	1	1	1	1
## 22	1	-1	-1	-1	-1	-1	-1	-1
## 23	0	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	1	1	1	1	1	1	1	1
## 27	-1	-1	-1	-1	0	0	0	0
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	0	1	1	1	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	1	1	1	1	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	-2	-2	-2	-2
## 37	0	0	0	0	1	1	1	1
## 38	-1	-1	-1	-1	1	1	1	1
## 39	0	0	0	0	1	1	1	1
## 40	0	0	0	0	1	1	1	1
## 41	1	1	1	1	0	0	0	0
## 42	0	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1	1
## 44	1	1	1	1	-1	-1	-1	-1
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0

## 47	1	1	1	1	0	0	0	0
## 48	-1	-1	-1	-1	1	1	1	1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	1	1	1	1
## 51	0	0	0	0	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1	1
## 54	1	1	1	1	-1	1	1	1
## 55	0	0	0	0	0	0	0	0
## 56	-1	-1	-1	-1	1	1	1	1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	-1	-1	-1	-1	0	1	0	0
## 60	-1	-1	-1	-1	0	0	0	0
## 61	0	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	2	2	2	2
## 63	0	0	0	0	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	1	1	1	1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0	0
## 72	1	1	1	1	1	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	0	0	0	-1	-1	-1	-1
## 76	-1	-1	-1	-1	1	1	2	2
## 77	0	0	0	0	0	0	0	0
## 78	1	0	0	0	1	1	1	1

## 79	1	1	1	1	1	1	1	1
## 80	1	1	1	1	1	1	1	1
## 81	-1	-1	-1	-1	1	1	1	1
## 82	0	0	0	0	-1	-1	-1	-1
## 83	0	0	0	0	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0	0
## 85	1	1	1	1	-1	-1	-1	-1
## 86	0	0	0	0	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	0	0	0	0	-1	-1	-1	0
## 89	0	0	0	0	1	1	1	1
## 90	0	0	0	0	0	0	0	0
## 91	1	1	1	1	0	0	0	0
## 92	-1	-1	-1	-1	1	1	1	1
## 93	0	0	0	0	-1	-1	-1	-1
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0	0
## 97	-1	-1	-1	-1	0	0	0	0
## 98	0	0	0	0	-1	-1	-1	-1
## 99	1	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1	1
## 101	0	0	0	0	1	1	1	1
## 102	0	0	0	0	-1	-1	-1	-1
## 103	0	0	0	0	1	1	1	1
## 104	0	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0	0
## 106	0	0	0	0	1	1	1	1
## 107	0	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	0	0	0	0
## 109	0	0	0	0	0	0	0	0
## 110	0	0	0	1	-1	-1	-1	-1

## 111	0	0	0	0	-1	-1	-1	-1
## 112	2	2	2	2	-1	-1	-1	-1
## 113	0	0	0	0	1	1	1	1
## 114	0	0	0	0	0	0	0	0
## 115	1	1	1	1	0	0	0	0
## 116	0	0	0	0	0	0	0	0

##	cn_ADAM33	cn_SPEF1	cn_PRND	cn_CHGB	cn_FERMT1	cn_PAK7	cn_SNAP25	cn_FLRT3
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## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	1	1	1	1	1	1	1	1
## 7	0	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	0	0	0	0	0	0	0	1
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	1	1	2	2	2	1	1	1
## 13	1	1	1	0	1	1	1	1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	1	1	1	1	1	1	1	1
## 17	1	1	1	1	1	1	1	1
## 18	1	1	1	1	1	1	1	1
## 19	1	1	1	1	1	1	1	1
## 20	0	0	0	0	-1	-1	-1	-1
## 21	1	1	1	1	1	1	1	1
## 22	-1	-1	-1	-1	-1	2	2	2
## 23	0	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0

## 26	1	1	1	1	1	1	1	1
## 27	0	0	0	0	0	0	0	0
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	0	0	0	0	0	0	0	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	-2	-2	-2	-2	-2	-2	-2	-2
## 37	1	1	1	1	1	1	1	0
## 38	1	1	1	1	1	1	1	1
## 39	1	1	1	1	1	1	1	1
## 40	1	1	1	1	1	1	1	1
## 41	0	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1	1
## 44	-1	-1	-1	-1	-1	-1	-1	-1
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	1	1	1	1	1	1	1	1
## 49	0	0	0	0	0	0	0	0
## 50	1	1	1	1	1	1	1	1
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	0	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1	1
## 54	1	1	1	1	-1	1	1	1
## 55	0	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0	0

## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0
## 60	0	0	0	0	0	0	0	0
## 61	0	0	0	0	0	0	0	0
## 62	2	2	2	-1	1	-1	-1	-1
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	0	0	0	0	0	1	1	1
## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	-1	-1	-1	-1	-1	-1	-1	-1
## 76	2	2	1	1	1	1	1	1
## 77	0	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1	1
## 79	1	1	1	1	1	1	1	1
## 80	1	1	1	1	1	1	1	1
## 81	1	1	1	1	1	1	1	1
## 82	-1	-1	-1	-1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	1	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	0	0	0	0	-1	-1	1	-2
## 89	1	1	1	1	1	1	1	1

## 90	0	0	0	0	0	0	0	0
## 91	0	0	0	0	0	0	0	1
## 92	1	1	1	1	1	1	1	1
## 93	-1	-1	-1	-1	-1	2	2	-1
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0	0
## 98	-1	-1	-1	-1	-1	-1	-1	-1
## 99	1	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1	1
## 101	1	1	1	1	1	1	1	1
## 102	-1	-1	-1	-1	-1	-1	-1	-1
## 103	1	1	1	1	1	1	1	1
## 104	0	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0	0
## 106	1	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0	0
## 108	0	0	0	0	0	0	0	0
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	1	1	1
## 111	-1	-1	-1	-1	-1	-1	-1	-1
## 112	-1	-1	-1	-1	-1	-1	-1	-1
## 113	1	1	1	1	1	1	1	1
## 114	0	0	0	0	0	0	0	0
## 115	0	0	0	0	0	0	0	0
## 116	0	0	0	0	0	0	0	0
##	cn_PCSK2	cn_PTPRT	cn_BCAS1	cn_CYP24A1	cn_BMP7	cn_PCK1	cn_ZBP1	cn_C20orf85
## 1	1	1	1	1	1	1	1	1
## 2	0	0	0	0	0	0	0	0
## 3	1	2	2	2	2	2	2	2
## 4	0	0	2	2	2	2	2	2

## 5	0	0	0	0	0	0	0	0
## 6	1	-2	-1	-1	1	1	1	1
## 7	0	0	0	0	0	0	0	0
## 8	-1	0	1	1	1	1	1	1
## 9	1	-1	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0
## 11	0	0	2	2	2	2	2	2
## 12	1	1	1	1	1	1	1	1
## 13	1	1	1	1	1	1	1	1
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	1	1	1	1	1	1	1	1
## 17	1	1	2	2	2	2	2	2
## 18	1	1	1	1	1	1	1	1
## 19	1	1	1	1	1	1	1	1
## 20	-1	2	2	2	2	2	2	2
## 21	1	1	1	1	1	1	1	1
## 22	2	2	2	2	2	2	2	2
## 23	0	0	0	0	0	0	0	0
## 24	1	1	1	1	2	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	1	1	1	1	1	1	1	1
## 27	0	0	0	0	0	0	0	0
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	0

## 37	0	0	0	0	0	0	0	0
## 38	1	0	2	2	0	0	2	2
## 39	1	1	1	1	1	1	1	1
## 40	1	1	1	1	1	1	1	1
## 41	0	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0	0
## 43	1	0	1	1	1	1	1	1
## 44	-1	0	2	2	2	2	2	2
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0
## 48	1	1	-1	-1	0	0	0	0
## 49	0	0	0	0	0	0	0	0
## 50	1	1	1	1	1	1	1	1
## 51	-1	1	1	1	1	1	1	1
## 52	0	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1	1
## 54	1	1	1	1	1	1	1	1
## 55	0	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0
## 60	0	1	1	1	1	1	1	1
## 61	0	0	0	0	0	0	0	0
## 62	-1	1	1	1	1	1	1	1
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0

## 69	0	0	0	0	0	0	0	0
## 70	1	1	1	1	1	1	1	1
## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	-1	-1	0	0	0	0	0	0
## 76	1	1	1	1	1	1	1	1
## 77	0	0	1	1	1	1	1	1
## 78	1	-1	1	1	1	1	1	1
## 79	1	1	1	1	1	1	1	1
## 80	1	1	1	1	1	1	1	1
## 81	1	1	1	1	1	1	1	1
## 82	-1	1	2	2	2	2	2	2
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	1	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	-1	0	0	0	0	0	0	0
## 89	1	1	1	1	1	1	1	1
## 90	0	0	1	1	1	1	1	1
## 91	1	1	1	1	1	1	1	1
## 92	1	1	2	2	1	1	1	1
## 93	-1	2	1	1	1	1	1	1
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0	0
## 98	-1	-1	1	1	1	1	1	1
## 99	1	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1	1

## 16	1	1	1	1	1	1	1	1
## 17	2	-1	-1	-1	-1	1	1	1
## 18	1	1	1	1	1	1	1	1
## 19	1	1	1	1	1	1	1	1
## 20	2	2	2	2	2	2	2	2
## 21	1	1	1	1	1	1	1	1
## 22	2	2	2	2	2	2	2	2
## 23	0	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	1	1	1	1	1	1	1	1
## 27	0	0	0	0	0	0	0	0
## 28	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	1	1	1	1	1	1	1	1
## 32	1	1	1	1	1	1	1	1
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0
## 38	2	2	2	0	0	0	0	0
## 39	1	1	1	1	1	1	1	1
## 40	1	1	1	1	1	1	1	1
## 41	0	0	0	0	0	0	0	0
## 42	0	0	1	1	1	1	1	1
## 43	1	1	1	1	1	1	1	1
## 44	2	2	2	2	2	2	2	2
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0

## 48	0	0	0	0	-1	1	1	1
## 49	0	0	0	0	0	0	0	0
## 50	1	1	1	1	1	1	1	1
## 51	1	1	1	1	1	1	1	1
## 52	0	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1	1
## 54	1	1	1	1	1	1	1	1
## 55	0	0	0	0	0	0	0	0
## 56	1	1	1	1	1	1	1	1
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0
## 60	1	1	1	1	1	1	1	1
## 61	0	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1	1
## 63	1	1	1	1	1	1	1	1
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0	0
## 70	1	1	1	1	1	1	1	1
## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	0	0	0	0	0	0	0	0
## 76	1	1	1	1	1	1	1	1
## 77	1	1	1	1	1	1	1	1
## 78	1	1	1	1	1	1	1	1
## 79	1	1	1	1	1	1	1	1

## 80	1	2	2	2	1	1	1	1
## 81	1	1	1	1	1	1	1	1
## 82	2	2	2	1	-1	-1	-1	-1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	1	1	1	1	1	1	1	1
## 87	0	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	0	0
## 89	1	1	1	1	1	1	1	1
## 90	1	1	1	1	1	1	1	1
## 91	1	1	1	1	1	1	1	1
## 92	2	2	2	2	2	1	2	2
## 93	1	1	1	1	1	1	1	1
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0	0
## 98	1	1	1	1	1	1	1	1
## 99	1	1	1	1	1	1	1	1
## 100	1	1	1	1	1	1	1	1
## 101	1	1	1	1	1	1	1	1
## 102	0	0	0	0	0	0	0	0
## 103	1	1	1	1	1	1	1	1
## 104	0	0	0	0	0	1	1	0
## 105	1	1	1	1	1	1	1	1
## 106	1	1	1	1	1	1	1	1
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	1	1	1	1	1
## 109	0	0	0	0	0	0	0	0
## 110	1	1	1	1	1	1	1	1
## 111	1	1	1	1	1	1	1	1

## 112	0	0	0	0	0	0	0
## 113	1	1	1	1	1	1	1
## 114	0	0	0	0	0	0	0
## 115	1	1	1	1	1	1	1
## 116	0	0	0	0	0	0	0
##	cn_ABCC13	cn_CXADR	cn_CHODL	cn_NCAM2	cn_B3GALT5	cn_C21orf88	cn_FAM3B
## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	2	2	2	2	2	2	2
## 7	0	0	0	0	0	0	0
## 8	-1	-1	-1	-1	-1	-1	-1
## 9	1	1	1	1	2	2	2
## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0
## 13	1	1	1	1	1	1	1
## 14	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0
## 17	0	0	0	0	0	0	0
## 18	1	1	1	1	1	1	1
## 19	0	0	0	0	0	0	0
## 20	-1	-2	-2	-2	1	1	2
## 21	0	0	0	0	0	0	0
## 22	-1	-1	-1	-1	-1	-1	-1
## 23	0	0	0	0	0	0	0
## 24	1	1	1	1	0	0	0
## 25	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0

## 27	0	0	0	0	0	0	0
## 28	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1
## 32	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0
## 35	1	1	1	1	1	1	1
## 36	1	1	1	1	1	1	1
## 37	-1	-1	-1	-1	-1	-1	-1
## 38	1	1	1	1	1	1	1
## 39	0	0	0	0	0	0	0
## 40	1	1	1	1	0	0	0
## 41	0	0	0	0	0	0	0
## 42	1	1	1	1	1	1	1
## 43	1	1	1	1	2	2	1
## 44	1	1	1	1	1	1	1
## 45	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0
## 48	0	0	0	0	0	0	0
## 49	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0
## 51	1	1	1	1	1	1	1
## 52	0	0	0	0	0	0	0
## 53	1	1	1	1	1	1	1
## 54	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0
## 56	2	2	2	-1	1	1	1
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0

## 59	2	2	2	2	1	1	1
## 60	-1	-1	-2	-1	-1	-1	-1
## 61	-1	-1	-1	-1	-1	-1	-1
## 62	-1	-1	-1	-1	-1	-1	-1
## 63	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	-1	-1	-1	-1	-1	-1	-1
## 71	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0
## 75	1	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1
## 79	0	0	0	0	0	0	0
## 80	1	1	1	1	1	1	1
## 81	1	1	1	1	1	1	1
## 82	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	1	1	1	1	1	1	1
## 85	1	1	1	1	1	1	1
## 86	0	0	0	0	0	0	0
## 87	-1	-1	-1	-1	-1	-1	-1
## 88	1	1	1	2	0	0	0
## 89	1	1	1	1	1	1	1
## 90	1	0	0	0	0	0	0

## 91	1	1	1	1	1	1	1	
## 92	1	1	1	1	1	1	1	
## 93	-2	-2	-2	-1	-1	-1	-1	
## 94	0	0	0	0	0	0	0	
## 95	0	0	0	0	0	0	0	
## 96	0	0	0	0	0	0	0	
## 97	0	0	0	0	0	0	0	
## 98	0	0	0	0	0	0	0	
## 99	1	1	1	1	1	1	1	
## 100	1	1	1	1	1	1	1	
## 101	1	1	1	1	1	1	1	
## 102	0	0	0	0	0	0	0	
## 103	0	0	0	0	0	0	0	
## 104	0	0	0	0	1	1	1	
## 105	0	0	0	0	0	0	0	
## 106	0	0	0	0	0	0	0	
## 107	0	0	0	0	0	0	0	
## 108	-1	1	1	1	1	1	1	
## 109	0	0	0	0	0	0	0	
## 110	-2	-2	-2	-2	-1	-1	-1	
## 111	1	1	1	1	1	1	1	
## 112	-1	-1	-1	-1	-1	-1	-1	
## 113	-1	1	1	1	1	1	-1	
## 114	0	0	0	0	0	0	0	
## 115	1	1	1	1	1	1	1	
## 116	0	0	0	0	0	0	0	
##	cn_TMPRSS2	cn_UMODL1	cn_S100B	cn_CECR7	cn_CECR2	cn_CDC45	cn_PRODH	cn_SLC7A4
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	1	1	1	-1	-1	2	2	2
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	-1	-1	-1	-1	-1

## 6	2	2	1	-1	-1	-1	-1	-1
## 7	0	0	0	-1	-1	-1	-1	-1
## 8	-1	-1	0	0	0	0	0	0
## 9	2	2	2	-1	-1	1	1	1
## 10	0	0	0	-1	-1	-1	-1	-1
## 11	0	0	0	-1	-1	-1	-1	-1
## 12	0	0	0	1	1	1	1	1
## 13	1	1	1	-1	-1	-1	-1	-1
## 14	0	0	0	-1	-1	-1	-1	-1
## 15	0	0	0	-1	-1	-1	-1	-1
## 16	0	0	0	-1	-1	-1	-1	-1
## 17	0	0	0	0	0	0	0	0
## 18	1	1	1	-1	-1	-1	-1	-1
## 19	0	0	0	-1	-1	-1	-1	-1
## 20	-1	2	2	-1	-1	-1	-1	-1
## 21	0	0	0	1	1	1	1	1
## 22	-1	-1	-1	-1	-1	-1	-1	-1
## 23	0	0	0	0	0	0	0	0
## 24	0	0	0	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	0	0	0	-1	-1	-1	-1	-1
## 27	0	0	0	-1	-1	-1	-1	-1
## 28	1	1	1	-1	-1	-1	-1	-1
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1	-1
## 32	0	0	0	-1	-1	-1	-1	-1
## 33	0	0	0	-1	-1	-1	-1	-1
## 34	0	0	0	0	0	0	0	0
## 35	1	1	1	2	0	0	0	0
## 36	1	1	1	0	0	0	0	0
## 37	-1	-1	-1	-1	-1	-1	-1	-1

## 38	1	1	1	-1	-1	-1	-1	-1
## 39	0	0	0	-1	-1	-1	-1	-1
## 40	0	0	0	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0	0
## 42	1	1	1	1	1	1	1	1
## 43	1	1	1	0	0	0	0	0
## 44	1	1	1	1	1	1	1	1
## 45	0	0	0	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0	0
## 47	0	0	0	-1	-1	-1	-1	-1
## 48	0	0	0	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	-1	-1	-1	-1	-1
## 51	1	1	1	-1	-1	-1	-1	-1
## 52	0	0	0	-1	-1	-1	-1	-1
## 53	1	1	1	-1	-1	-1	-1	-1
## 54	0	0	0	1	1	1	1	1
## 55	0	0	0	0	0	0	0	0
## 56	1	1	1	0	0	0	0	0
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	1	1	1	0	0	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	-1	-1	-1	1	1	1	1	1
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	0	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0	0
## 65	1	1	-1	1	1	1	1	1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	0	0	0	-1	-1	-1	-1	-1

## 70	-1	-1	-1	-1	-1	-1	-1	-1
## 71	0	0	0	0	0	-1	-1	-1
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	0	0	0	1	1	1	1	1
## 75	0	0	0	-1	-1	-1	-1	-1
## 76	-1	-1	1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	1	1	1	-1	-1	-1	-1	-1
## 79	0	0	0	-1	-1	-1	-1	-1
## 80	1	1	2	-1	-1	-1	-1	-1
## 81	1	1	1	-1	-1	-1	-1	-1
## 82	1	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	1	1	1	0	0	0	0	0
## 85	1	1	1	-1	-1	-1	-1	-1
## 86	0	0	0	1	1	1	1	1
## 87	-1	-1	-1	-1	-1	-1	-1	-1
## 88	0	0	0	-2	-2	-1	-1	-1
## 89	1	1	1	-1	-1	-1	-1	-1
## 90	0	0	1	-1	-1	-1	-1	-1
## 91	1	1	1	1	1	-1	-1	-1
## 92	1	1	1	-1	-1	-1	-1	-1
## 93	-1	-1	-1	2	2	2	2	2
## 94	0	0	0	-1	-1	-1	-1	-1
## 95	0	0	0	-1	-1	-1	-1	-1
## 96	0	0	0	-1	-1	1	1	1
## 97	0	0	0	1	1	0	0	0
## 98	0	0	0	0	0	0	0	0
## 99	1	1	1	-1	-1	-1	-1	-1
## 100	1	1	1	0	0	0	0	0
## 101	1	1	1	0	0	0	0	0

## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	1	1	1	-1	-1	-1	-1	-1
## 105	0	0	0	0	0	-1	-1	-1
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	1	1	1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1	-1
## 111	1	1	0	0	0	0	0	0
## 112	-1	-1	-1	-1	-1	-1	-1	-1
## 113	-1	1	1	0	0	0	0	0
## 114	0	0	0	0	0	0	0	0
## 115	1	1	1	0	0	0	0	0
## 116	0	0	0	-1	-1	-1	-1	-1

[illegible]

## 17	0	0	0	0	0	0	0	0
## 18	-1	-1	-1	-1	-1	-1	-1	-1
## 19	-1	-1	-1	-1	-1	-1	-1	-1
## 20	-1	-1	-1	-1	-1	-1	-1	-1
## 21	1	1	1	1	1	1	1	1
## 22	-1	-1	-1	-1	-1	-1	-1	-1
## 23	0	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1	-1
## 28	-1	-1	0	0	0	0	0	0
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1	-1
## 32	-1	-1	-1	-1	-1	-1	-1	-1
## 33	-1	-1	-1	-1	-1	-1	-1	-1
## 34	0	0	0	0	0	0	0	0
## 35	0	0	0	0	0	0	0	0
## 36	0	0	0	0	0	0	0	0
## 37	-1	-1	-1	-1	-1	-1	-1	-1
## 38	-1	-1	-1	-1	-1	-1	-1	0
## 39	-1	-1	-1	-1	-1	0	0	0
## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0	0
## 42	1	1	1	1	1	1	1	1
## 43	0	0	0	0	0	0	0	0
## 44	1	1	1	1	1	-1	-1	-1
## 45	-1	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0	0
## 47	-1	-1	-1	-1	-1	-1	-1	-1
## 48	-1	-1	-1	-1	-1	-1	-1	-1

## 49	0	0	0	0	0	0	0	0
## 50	-1	-1	-1	-1	-1	-1	-1	-1
## 51	-1	-1	-1	-1	-1	-1	-1	-1
## 52	-1	-1	-1	-1	-1	-1	-1	-1
## 53	-1	-1	-1	-1	-1	-1	-1	-1
## 54	1	1	1	1	1	-1	-1	-1
## 55	0	0	0	0	0	0	0	0
## 56	0	0	0	0	0	0	0	0
## 57	0	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 61	1	1	1	1	1	1	1	1
## 62	-1	-1	-1	-1	-1	-1	-1	-1
## 63	0	0	0	0	0	-1	0	0
## 64	0	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69	-1	-1	-1	-1	-1	-1	-1	-1
## 70	-1	-1	-1	-1	-1	-1	-1	-1
## 71	-1	-1	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1
## 75	-1	-1	-1	-1	-1	-1	-1	-1
## 76	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1	-1
## 79	-1	-1	-1	-1	-1	-1	-1	-1
## 80	-1	-1	-1	-1	-1	-1	-1	1

## 81	-1	-1	-1	-1	-1	-1	-1	-1
## 82	1	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1	-1
## 86	1	1	1	1	1	1	1	-1
## 87	-1	-1	-1	-1	-1	-1	-1	-1
## 88	-1	-1	-1	-1	-1	-1	-1	-1
## 89	-1	-1	-1	-1	-1	-1	-1	-1
## 90	-1	-1	-1	-1	-1	-1	-1	-1
## 91	-1	-1	-1	-1	-1	-1	-1	-1
## 92	-1	-1	-1	-1	-1	-1	-1	-1
## 93	2	1	1	1	1	1	1	1
## 94	-1	-1	-1	-1	-1	-1	-1	-1
## 95	-1	-1	-1	-1	-1	-1	-1	-1
## 96	1	1	-1	-1	-1	-1	-1	-1
## 97	0	0	0	0	0	0	0	0
## 98	0	0	0	0	0	0	0	0
## 99	-1	-1	-1	-1	-1	-1	-1	-1
## 100	0	0	0	0	0	0	0	0
## 101	0	0	0	0	0	0	0	0
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1	-1
## 105	-1	-1	-1	-1	-1	-1	-1	-1
## 106	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1	-1
## 111	0	0	0	0	0	0	0	0
## 112	-1	-1	-1	-1	-1	-1	-1	-1

##	113	0	0	0	0	0	0	0
##	114	0	0	0	0	0	0	0
##	115	0	0	0	0	0	0	0
##	116	-1	-1	-1	-1	-1	-1	-1
##		cn_SEC14L2	cn_INPP5J	cn_PLA2G3	cn_SLC5A1	cn_TMPRSS6	cn_ELFN2	cn_LGALS2
##	1	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0
##	3	-1	-1	-1	-1	1	1	1
##	4	0	0	0	0	0	0	0
##	5	-1	-1	-1	-1	-1	-1	-1
##	6	-1	-1	-1	-1	-1	-1	-1
##	7	-1	-1	-1	-1	-1	-1	-1
##	8	-1	-1	-1	-1	0	0	0
##	9	2	1	1	1	1	1	1
##	10	-1	-1	-1	-1	-1	-1	-1
##	11	-1	-1	-1	-1	-1	-1	-1
##	12	1	1	1	1	1	1	1
##	13	-1	-1	-1	-1	-1	-1	-1
##	14	-1	-1	-1	-1	-1	-1	-1
##	15	-1	-1	-1	-1	-1	-1	-1
##	16	-1	-1	-1	-1	-1	-1	-1
##	17	0	0	0	0	0	0	0
##	18	-1	-1	-1	-1	-1	-1	-1
##	19	-1	-1	-1	-1	-1	-1	-1
##	20	-1	-1	-1	-1	-1	-1	-1
##	21	1	1	1	1	1	1	1
##	22	-1	-1	-1	-1	-1	-1	-1
##	23	0	0	0	0	0	0	0
##	24	1	1	1	1	1	1	1
##	25	0	0	0	0	0	0	0
##	26	-1	-1	-1	-1	-1	-1	-1
##	27	-1	-1	-1	-1	-1	-1	-1

## 28	0	0	0	0	0	0	0
## 29	0	0	0	0	1	1	1
## 30	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1
## 32	-1	-1	-1	-1	-1	-1	-1
## 33	-1	0	0	-1	-1	-1	-1
## 34	0	0	0	0	0	0	0
## 35	0	0	0	0	0	0	0
## 36	0	0	0	0	0	0	0
## 37	-1	-1	-1	-1	-1	-1	-1
## 38	-1	-1	-1	-1	-1	-1	-1
## 39	0	0	0	0	0	0	0
## 40	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0
## 42	1	1	1	1	1	1	1
## 43	0	0	0	0	0	0	0
## 44	-1	-1	-1	-1	-1	-1	-1
## 45	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0
## 47	-1	-1	-1	-1	-1	-1	-1
## 48	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0
## 50	-1	-1	-1	-1	-1	-1	-1
## 51	-1	-1	-1	-1	-1	-1	-1
## 52	-1	-1	-1	-1	-1	-1	-1
## 53	1	1	1	1	1	1	1
## 54	-1	-1	-1	-1	-1	-1	-1
## 55	0	0	0	0	0	0	0
## 56	0	0	0	0	0	0	0
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0

## 60	-1	-1	-1	-1	-1	-1	-1
## 61	1	1	1	1	1	1	1
## 62	-1	-1	-1	-1	-1	-1	-1
## 63	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	-1	-1	-1	-1	-1	-1	-1
## 70	-1	-1	-1	-1	-1	-1	-1
## 71	-1	-1	-1	-1	-1	-1	-1
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1
## 75	-1	-1	-1	-1	-1	-1	-1
## 76	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0
## 78	-1	-1	-1	-1	-1	-1	-1
## 79	-1	-1	-1	-1	-1	-1	-1
## 80	-1	1	1	-1	0	0	0
## 81	-1	-1	-1	-1	-1	-1	-1
## 82	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1
## 86	-1	-1	-1	-1	0	0	0
## 87	-1	-1	-1	-1	-1	-1	-1
## 88	-1	-1	-1	-1	-1	-1	-1
## 89	-1	-1	-1	-1	-1	-1	-1
## 90	-1	-1	-1	-1	-1	-1	-1
## 91	-1	-1	-1	-1	-1	-1	-1

## 92	-1	-1	-1	-1	-1	-1	-1
## 93	1	1	1	1	1	1	1
## 94	-1	-1	-1	-1	-1	-1	-1
## 95	-1	-1	-1	-1	-1	-1	-1
## 96	-1	-1	-1	-1	-1	-1	-1
## 97	0	1	1	0	0	1	1
## 98	0	0	0	0	0	0	0
## 99	-1	-1	-1	-1	-1	-1	-1
## 100	0	0	0	0	0	0	0
## 101	0	0	0	0	0	0	0
## 102	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0
## 104	-1	-1	-1	1	-1	-1	-1
## 105	-1	-1	-1	-1	-1	-1	-1
## 106	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1
## 111	0	0	0	-1	-1	0	0
## 112	-1	-1	-1	-1	-1	-1	-1
## 113	0	0	0	0	0	0	0
## 114	0	0	0	0	0	0	0
## 115	0	0	0	0	0	0	0
## 116	-1	-1	-1	-1	-1	-1	-1
##	cn_SOX10	cn_APOBEC3B	cn_CACNA1I	cn_SEPT3	cn_SERHL2	cn_SCUBE1	cn_MPPED1
## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	-1	2	-1	-1	-1	-1	-1
## 4	0	0	0	0	0	0	0
## 5	-1	-1	-1	-1	-1	-1	-1
## 6	-1	-1	-1	-1	-1	-1	-1

## 7	-1	-1	-1	-1	-1	-1	-1
## 8	0	0	0	0	0	0	0
## 9	1	1	1	1	1	1	1
## 10	-1	-1	-1	-1	-1	-1	-1
## 11	-1	-1	-1	-1	-1	-1	-1
## 12	1	1	1	1	1	1	1
## 13	-1	-1	-1	-1	-1	-1	-1
## 14	-1	-1	-1	-1	-1	-1	-1
## 15	-1	-1	-1	-1	-1	-1	-1
## 16	-1	-1	-1	-1	-1	-1	-1
## 17	0	0	0	0	0	0	0
## 18	-1	-1	-1	-1	-1	-1	-1
## 19	-1	-1	-1	-1	-1	-1	-1
## 20	-1	-1	-1	-1	-1	-1	-1
## 21	1	1	1	1	1	1	1
## 22	1	-1	-1	-1	-1	-1	-1
## 23	0	0	0	0	0	0	0
## 24	1	1	1	0	0	0	0
## 25	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1
## 28	0	0	0	0	0	0	0
## 29	1	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1
## 32	-1	-1	-1	-1	-1	-1	-1
## 33	-1	-1	-1	-1	-1	-1	-1
## 34	0	0	0	0	0	0	0
## 35	0	0	0	0	0	0	0
## 36	0	0	0	0	0	0	0
## 37	-1	-1	-1	-1	-1	-1	-1
## 38	-1	-1	-1	0	0	0	0

## 39	0	0	0	-1	-1	0	0
## 40	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	1	1	1	1
## 42	1	1	1	1	1	1	1
## 43	0	0	0	0	0	0	0
## 44	-1	-1	-1	-1	-1	-1	-1
## 45	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0
## 47	-1	-1	-1	-1	-1	-1	-1
## 48	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0
## 50	-1	-1	-1	-1	-1	-1	-1
## 51	-1	-1	-1	-1	-1	-1	-1
## 52	-1	-1	-1	-1	-1	-1	-1
## 53	1	1	1	1	1	1	1
## 54	-1	-1	-1	-1	-1	-1	-1
## 55	0	0	0	0	0	0	0
## 56	0	0	0	0	0	0	0
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1
## 61	1	1	1	1	1	1	1
## 62	-1	-1	-1	-1	-1	-1	-1
## 63	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	-1	-1	-1	-1	-1	-1	-1
## 70	-1	-1	-1	-1	-1	-1	-1

## 71	-1	-1	-1	-1	-1	-1	-1
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1
## 75	-1	-1	-1	-1	-1	-1	-1
## 76	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0
## 78	-1	1	1	1	1	1	1
## 79	-1	-1	-1	-1	-1	-1	-1
## 80	2	0	0	0	0	0	0
## 81	-1	-1	-1	-1	-1	-1	-1
## 82	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1
## 86	0	0	0	-1	-1	-1	-1
## 87	-1	-1	-1	-1	-1	-1	-1
## 88	-1	-1	-1	-1	-1	-1	-1
## 89	-1	-1	-1	-1	-1	-1	-1
## 90	-1	-1	-1	-1	-1	-1	-1
## 91	-1	-1	-1	-1	-1	-1	-1
## 92	-1	-1	-1	-1	-1	-1	-1
## 93	1	1	1	1	1	1	1
## 94	-1	-1	-1	-1	-1	-1	-1
## 95	-1	-1	-1	-1	-1	-1	-1
## 96	-1	-1	-1	-1	-1	-1	-1
## 97	0	0	0	0	0	0	0
## 98	0	0	0	0	0	0	0
## 99	-1	-1	-1	-1	-1	-1	-1
## 100	0	0	0	0	0	0	0
## 101	0	0	0	0	0	0	0
## 102	0	0	0	0	0	0	0

## 103	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1
## 105	-1	-1	-1	-1	-1	-1	-1
## 106	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1
## 111	0	0	0	0	0	0	0
## 112	-1	-1	-1	-1	-1	-1	-1
## 113	0	0	0	0	0	0	0
## 114	0	0	0	0	0	0	0
## 115	0	0	0	0	0	0	0
## 116	-1	-1	-1	-1	-1	-1	-1
##	cn_SULT4A1	cn_PNPLA3	cn_PHF21B	cn_UPK3A	cn_SMC1B	cn_WNT7B	cn_KLHDC7B
## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	-1	-1	-1	-1	-1	-1	-1
## 4	0	0	0	0	0	0	0
## 5	-1	-1	-1	-1	-1	-1	-1
## 6	-1	-1	-1	-1	-1	-1	-1
## 7	-1	-1	-1	-1	-1	-1	-1
## 8	0	0	0	0	0	0	0
## 9	1	1	1	0	0	0	0
## 10	-1	-1	-1	-1	-1	-1	-1
## 11	-1	-1	-1	-1	-1	-1	-1
## 12	1	1	1	1	1	1	-1
## 13	-1	-1	-1	-1	-1	-1	-1
## 14	-1	-1	-1	-1	-1	-1	-1
## 15	-1	-1	-1	-1	-1	-1	-1
## 16	-1	-1	-1	-1	-1	-1	-1
## 17	0	0	0	0	0	0	0

## 18	-1	-1	-1	-1	-1	-1	-1
## 19	-1	-1	-1	-1	-1	-1	-1
## 20	-1	-1	-1	-1	-1	-1	-1
## 21	1	1	1	1	1	1	1
## 22	-1	-1	-1	-1	-1	2	-1
## 23	0	0	0	0	0	0	0
## 24	0	0	0	0	0	0	1
## 25	0	0	0	0	0	0	0
## 26	-1	-1	-1	-1	-1	-1	-1
## 27	-1	-1	-1	-1	-1	-1	-1
## 28	0	0	0	0	0	0	0
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	-1	-1	-1	-1	-1	-1	-1
## 32	-1	-1	-1	-1	-1	-1	0
## 33	-1	-1	-1	-1	-1	-1	-1
## 34	0	0	0	0	0	0	0
## 35	0	0	0	0	0	0	0
## 36	0	0	0	0	0	0	0
## 37	-1	-1	-1	-1	-1	-1	-1
## 38	0	0	0	0	0	0	0
## 39	0	0	0	0	0	0	0
## 40	-1	-1	-1	1	-1	-1	-1
## 41	1	1	1	1	1	1	1
## 42	1	1	1	1	1	1	1
## 43	0	0	0	0	0	0	0
## 44	-1	-1	-1	-1	-1	-1	-1
## 45	-1	-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0
## 47	-1	-1	-1	-1	-1	-1	-1
## 48	-1	-1	-1	-1	-1	-1	-1
## 49	0	0	0	0	0	0	0

## 50	-1	-1	-1	-1	-1	-1	-1
## 51	-1	-1	-1	-1	-1	-1	-1
## 52	-1	-1	-1	-1	-1	-1	-1
## 53	1	1	1	1	1	1	-1
## 54	-1	-1	-1	-1	-1	-1	-1
## 55	0	0	0	0	0	0	0
## 56	0	0	0	0	0	0	0
## 57	0	0	0	0	0	0	0
## 58	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1
## 61	1	1	1	1	1	1	1
## 62	-1	-1	-1	-1	-1	-1	-1
## 63	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0
## 65	1	1	1	1	1	1	1
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	-1	-1	-1	-1	-1	-1	-1
## 70	-1	-1	-1	-1	-1	-1	-1
## 71	-1	-1	-1	-1	-1	-1	-1
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1
## 75	-1	-1	-1	-1	-1	-1	-1
## 76	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0
## 78	1	1	1	1	1	1	1
## 79	-1	-1	-1	-1	-1	-1	-1
## 80	0	0	0	0	0	0	0
## 81	-1	-1	-1	-1	-1	-1	-1

## 82	1	1	1	1	1	1	1
## 83	-1	-1	-1	-1	-1	-1	-1
## 84	0	0	0	0	0	0	0
## 85	-1	-1	-1	-1	-1	-1	-1
## 86	-1	-1	-1	-1	-1	-1	-1
## 87	-1	-1	-1	-1	-1	-1	-1
## 88	-1	-1	-1	-1	-1	-1	-1
## 89	-1	-1	-1	-1	-1	-1	-1
## 90	-1	-1	-1	-1	-1	-1	-1
## 91	-1	-1	-1	-1	-1	-1	-1
## 92	-1	-1	-1	-1	-1	-1	-1
## 93	1	1	1	1	1	1	1
## 94	-1	-1	-1	-1	-1	-1	-1
## 95	-1	-1	-1	-1	-1	-1	-1
## 96	-1	-1	-1	-1	-1	-1	-1
## 97	0	0	0	0	0	0	0
## 98	0	0	0	0	0	0	0
## 99	-1	-1	-1	-1	-1	-1	-1
## 100	0	0	0	0	0	0	0
## 101	0	0	0	0	0	0	0
## 102	0	0	0	0	0	0	0
## 103	0	0	0	0	0	0	0
## 104	-1	-1	-1	-1	-1	-1	-1
## 105	-1	-1	-1	-1	-1	-1	-1
## 106	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0
## 108	-1	-1	-1	-1	-1	-1	-1
## 109	0	0	0	0	0	0	0
## 110	-1	-1	-1	-1	-1	-1	-1
## 111	0	0	0	0	0	0	0
## 112	-1	-1	-1	-1	-1	-1	-1
## 113	0	0	0	0	0	0	0

## 114	0	0	0	0	0	0	0
## 115	0	0	0	0	0	0	0
## 116	-1	-1	-1	-1	-1	-1	-1
##	cn_MAPK8IP2	cn_MLC1					
## 1	0	0					
## 2	0	0					
## 3	-1	-1					
## 4	0	0					
## 5	-1	-1					
## 6	-1	-1					
## 7	-1	-1					
## 8	0	0					
## 9	0	0					
## 10	-1	-1					
## 11	-1	-1					
## 12	-1	-1					
## 13	-1	-1					
## 14	-1	-1					
## 15	-1	-1					
## 16	-1	-1					
## 17	0	0					
## 18	-1	-1					
## 19	-1	-1					
## 20	-1	-1					
## 21	1	1					
## 22	-1	-1					
## 23	0	0					
## 24	1	1					
## 25	0	0					
## 26	-1	-1					
## 27	-1	-1					
## 28	0	0					

## 29	0	0
## 30	0	0
## 31	-1	-1
## 32	0	0
## 33	-1	-1
## 34	0	0
## 35	0	0
## 36	0	0
## 37	-1	-1
## 38	0	0
## 39	0	0
## 40	-1	-1
## 41	1	1
## 42	1	1
## 43	0	0
## 44	-1	-1
## 45	-1	-1
## 46	0	0
## 47	-1	-1
## 48	-1	-1
## 49	0	0
## 50	-1	-1
## 51	-1	-1
## 52	-1	-1
## 53	-1	-1
## 54	-1	-1
## 55	0	0
## 56	0	0
## 57	0	0
## 58	0	0
## 59	0	0
## 60	-1	-1

## 61	1	1
## 62	-1	-1
## 63	0	0
## 64	0	0
## 65	1	1
## 66	0	0
## 67	0	0
## 68	0	0
## 69	-1	-1
## 70	-1	-1
## 71	-1	-1
## 72	0	0
## 73	0	0
## 74	1	1
## 75	-1	-1
## 76	-1	-1
## 77	0	0
## 78	1	1
## 79	-1	-1
## 80	0	0
## 81	-1	-1
## 82	1	1
## 83	-1	-1
## 84	0	0
## 85	-1	-1
## 86	-1	-1
## 87	-1	-1
## 88	-1	-1
## 89	-1	-1
## 90	-1	-1
## 91	-1	-1
## 92	-1	-1

```

## 93      1      1
## 94     -1     -1
## 95     -1     -1
## 96     -1     -1
## 97      0      0
## 98      0      0
## 99     -1     -1
## 100     0      0
## 101     0      0
## 102     0      0
## 103     0      0
## 104     -1     -1
## 105     -1     -1
## 106      0      0
## 107      0      0
## 108     -1     -1
## 109      0      0
## 110     -1     -1
## 111      0      0
## 112     -1     -1
## 113      0      0
## 114      0      0
## 115      0      0
## 116     -1     -1
##  [ reached 'max' / getOption("max.print") -- omitted 391 rows ]

```

```
brca_data[1465:1713]
```

```

##      mu_ANK3 mu_GATA3 mu_HECTD4 mu_LRBA mu_LRP2 mu_SYNE1 mu_CDH1 mu_MGA mu_MUC16
## 1          0          0          0          0          0          0          0          0          1
## 2          1          0          0          0          0          0          0          0          0
## 3          0          0          0          0          0          0          0          0          0

```

## 4	0	1	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	1
## 6	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0	0
## 13	0	0	0	0	0	0	0	0	0
## 14	0	0	1	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0	0
## 17	0	0	0	0	0	0	0	0	0
## 18	0	0	0	0	0	0	0	0	0
## 19	0	1	0	1	0	0	0	0	0
## 20	0	0	0	0	1	0	0	0	0
## 21	0	0	0	0	0	0	0	0	0
## 22	0	0	1	0	0	0	0	0	0
## 23	0	0	0	0	0	0	0	0	1
## 24	0	0	1	0	0	0	0	0	0
## 25	0	1	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0	0	0
## 27	0	0	0	0	0	0	0	1	0
## 28	0	0	0	0	0	0	0	0	0
## 29	0	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0	0	1
## 32	0	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	1	0	0
## 35	0	0	0	0	0	1	0	0	0

## 68	0	0	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	1	0	0
## 70	0	1	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0	1
## 73	0	0	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0	0	0
## 75	0	0	0	0	0	0	0	0	0
## 76	0	0	0	0	0	0	0	0	1
## 77	0	0	0	0	0	0	0	0	0
## 78	0	0	0	0	0	0	0	0	0
## 79	0	0	0	0	0	0	0	0	0
## 80	0	0	0	0	0	0	0	0	0
## 81	0	0	0	0	0	0	0	0	0
## 82	0	0	0	0	0	0	0	0	0
## 83	0	0	0	0	0	0	0	0	0
## 84	0	0	0	0	1	0	0	0	0
## 85	0	0	0	0	0	0	0	0	0
## 86	0	0	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0	0	0
## 88	0	1	0	0	0	0	0	0	0
## 89	0	1	0	0	0	0	0	0	0
## 90	0	0	0	0	0	0	0	0	0
## 91	0	0	0	0	0	0	0	0	1
## 92	1	0	0	0	0	0	0	0	0
## 93	0	1	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0	0	0
## 96	0	0	1	0	0	0	0	0	1
## 97	0	0	0	0	0	0	0	0	1
## 98	0	0	0	0	0	0	0	0	0
## 99	0	0	1	0	0	0	0	0	0

## 100	0	0	0	0	0	0	0	0	0
## 101	0	0	0	0	0	0	0	0	0
## 102	0	0	0	0	0	0	0	1	0
## 103	0	1	0	0	0	0	0	0	1
## 104	0	0	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0	0	0
## 106	0	0	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0	0	0
## 108	0	0	0	0	0	0	0	0	0
## 109	0	0	0	0	0	0	0	0	0
## 110	0	1	0	0	0	0	0	0	0
## 111	0	0	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0	0	0
## 113	0	0	0	0	0	0	0	0	0
## 114	0	0	0	0	0	0	0	0	0
## 115	0	0	0	0	0	0	0	0	0
## 116	0	0	0	0	0	0	0	0	0
## 117	0	0	0	0	0	0	1	0	0
## 118	0	0	0	0	0	0	0	0	0
## 119	0	0	1	0	0	1	0	0	0
## 120	0	0	0	0	0	0	0	0	0
## 121	0	0	0	0	0	0	0	0	0
## 122	0	0	0	0	0	0	0	0	0
## 123	0	0	0	0	0	0	0	0	0
## 124	0	0	0	0	1	0	0	0	1
## 125	0	0	0	0	0	0	0	1	0
## 126	0	0	0	0	0	0	0	0	0
## 127	0	0	0	0	0	0	0	0	0
## 128	0	1	0	0	0	0	0	0	0
## 129	0	0	0	0	0	0	1	0	0
## 130	0	0	0	0	0	0	1	0	0
## 131	0	1	0	1	0	1	1	0	0

## 228	0	1	0	0	0	0	0	0	0
## 229	0	0	0	0	0	0	0	0	0
## 230	0	0	0	0	0	0	0	0	0
## 231	1	0	0	0	0	0	0	0	1
## 232	0	0	0	0	0	0	0	0	0
## 233	0	0	0	0	1	0	0	0	0
## 234	0	0	0	0	0	0	0	0	1
## 235	0	0	0	0	0	0	0	0	0
## 236	0	1	0	0	0	0	0	0	0
## 237	0	0	0	0	0	0	0	0	0
## 238	0	0	0	0	0	0	0	0	0
## 239	0	0	0	0	0	0	0	0	0
## 240	0	0	0	0	0	0	1	0	0
## 241	0	0	0	0	0	0	0	0	0
## 242	0	0	0	0	0	0	0	0	0
## 243	0	0	0	0	0	0	0	1	0
## 244	0	0	0	0	0	0	0	0	0
## 245	0	1	0	0	0	0	0	0	1
## 246	0	0	0	0	0	0	0	0	1
## 247	0	0	0	0	0	0	0	0	0
## 248	0	0	0	0	0	1	0	0	1
## 249	0	0	0	0	0	0	0	0	0
## 250	0	0	0	0	0	0	0	0	0
## 251	0	0	0	0	0	0	0	0	0
## 252	0	0	0	0	0	0	0	0	0
## 253	0	0	0	0	0	0	0	0	0
## 254	0	0	0	0	0	0	0	0	0
## 255	0	0	0	0	0	0	0	0	0
## 256	0	0	0	0	0	0	0	0	0
## 257	0	0	0	0	0	0	0	0	1
## 258	0	0	0	0	0	0	0	0	0
## 259	0	0	1	0	0	0	0	0	0

## 292	0	0	0	0	0	0	0	0	0
## 293	0	0	0	0	0	0	0	0	0
## 294	1	1	0	0	0	0	1	1	0
## 295	0	0	0	0	0	0	0	0	0
## 296	0	0	0	0	0	0	0	0	0
## 297	0	0	0	0	0	0	0	0	0
## 298	0	0	0	0	0	0	0	0	0
## 299	0	0	0	0	0	0	0	0	0
## 300	0	0	0	0	0	0	0	0	0
## 301	0	0	0	0	0	0	1	0	0
## 302	1	0	0	0	1	0	0	0	1
## 303	0	0	0	0	0	0	0	0	0
## 304	0	0	0	0	0	0	0	0	0
## 305	0	0	0	0	0	0	0	0	0
## 306	0	0	0	0	0	1	0	0	0
## 307	0	0	0	0	0	1	1	0	1
## 308	0	0	0	0	0	0	0	0	0
## 309	1	0	0	0	0	0	0	0	0
## 310	0	0	0	0	0	0	0	0	0
## 311	0	0	0	0	1	0	0	0	0
## 312	0	0	0	0	0	0	0	0	0
## 313	0	0	0	0	0	0	0	0	0
## 314	0	0	1	0	0	0	0	0	0
## 315	0	0	0	0	0	0	0	0	0
## 316	0	0	0	0	0	0	0	0	0
## 317	0	0	0	0	0	0	0	0	0
## 318	1	0	0	0	0	0	0	0	0
## 319	0	0	0	0	0	0	0	0	0
## 320	0	0	0	0	0	0	0	0	1
## 321	0	0	0	0	0	0	0	0	0
## 322	0	0	0	0	0	0	0	0	0
## 323	0	1	0	0	0	0	0	0	0

## 388	0	1	0	0	0	0	0	0	0
## 389	0	0	0	0	0	0	0	0	0
## 390	0	0	0	0	0	0	0	0	0
## 391	0	0	0	0	0	0	0	0	0
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## 393	0	0	0	0	0	0	0	0	0
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## 395	0	0	0	0	0	0	0	0	0
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##	mu_ZFHX4	mu_LAMA2	mu_MLL3	mu_MUC5B	mu_PLXNA4	mu_PTPRD	mu_CSMD2	mu_DSCAM
----	----------	----------	---------	----------	-----------	----------	----------	----------

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## 2	1	0	0	0	0	0	0	0
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## 4	0	0	0	0	0	0	0	0
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## 391	0	0	0	0	0	0	0	0
## 392	1	0	0	0	0	0	0	0
## 393	0	0	0	0	0	0	0	0
## 394	1	1	0	0	0	0	0	0
## 395	0	0	0	0	0	0	0	0
## 396	0	0	0	0	0	0	0	0
## 397	0	0	0	0	0	0	0	0
## 398	0	0	0	1	1	1	0	0
## 399	0	0	0	0	0	0	0	1
## 400	0	0	0	0	0	0	0	0
## 401	0	0	0	0	0	0	0	0

##	mu_FAT2	mu_MAP3K1	mu_MED12	mu_RNA5.8SP6	mu_AHCTF1	mu_APOBR	mu_COL14A1
## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	1	1	1
## 3	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0
## 5	0	1	0	0	0	0	0
## 6	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0
## 13	0	0	0	0	1	0	0
## 14	0	1	0	1	0	0	0
## 15	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0
## 17	0	0	0	0	0	0	0
## 18	0	0	0	0	0	0	0
## 19	0	0	0	1	0	0	0
## 20	0	0	0	0	0	0	0
## 21	0	0	1	0	0	0	0
## 22	0	0	0	0	0	0	0
## 23	0	0	0	0	0	0	0
## 24	0	0	0	0	1	0	0
## 25	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0
## 27	0	0	0	0	0	0	0
## 28	0	0	0	0	0	0	0
## 29	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0
## 31	0	1	0	0	0	0	0

## 32	0	0	0	0	0	0	0
## 33	0	0	0	0	0	1	0
## 34	0	0	0	0	0	0	0
## 35	0	0	0	0	0	0	0
## 36	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0
## 38	1	0	0	0	0	0	0
## 39	0	0	0	0	0	0	0
## 40	0	0	0	1	0	0	0
## 41	0	0	0	0	1	0	0
## 42	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0
## 44	0	0	0	0	0	0	0
## 45	0	0	0	0	0	0	0
## 46	1	0	1	0	0	0	0
## 47	0	0	0	1	0	0	0
## 48	0	0	0	0	0	0	0
## 49	0	0	0	0	0	0	0
## 50	0	1	0	0	0	0	0
## 51	0	0	0	0	0	0	0
## 52	0	1	0	0	0	0	0
## 53	0	0	0	0	0	0	0
## 54	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0
## 56	0	0	0	0	0	0	0
## 57	0	1	0	1	0	0	0
## 58	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0
## 60	0	0	0	0	0	0	0
## 61	0	0	0	0	0	0	0
## 62	0	0	0	0	0	0	0
## 63	0	0	0	0	0	0	0

## 64	0	0	0	0	0	0	0
## 65	0	1	0	0	0	0	0
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	1	0	0	0	0	0
## 69	0	0	1	0	0	0	0
## 70	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0
## 75	0	0	1	0	0	0	0
## 76	0	0	0	0	0	0	0
## 77	0	0	0	0	0	0	0
## 78	0	0	0	0	0	0	0
## 79	0	1	0	0	0	0	0
## 80	0	0	0	0	0	0	0
## 81	0	0	0	0	0	0	0
## 82	0	0	0	0	0	0	0
## 83	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0
## 85	0	0	0	0	0	0	0
## 86	0	0	0	0	0	0	0
## 87	0	1	0	0	0	0	0
## 88	0	0	0	0	0	0	0
## 89	0	0	0	0	0	0	0
## 90	0	0	0	0	0	0	0
## 91	0	0	0	0	0	0	0
## 92	0	0	0	0	0	0	0
## 93	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0
## 95	0	1	0	0	0	0	0

## 96	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0
## 98	0	0	0	0	0	0	0
## 99	0	0	0	0	0	0	0
## 100	0	0	0	0	0	0	0
## 101	0	0	0	0	0	0	0
## 102	0	1	0	0	0	0	0
## 103	0	0	1	0	0	0	0
## 104	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0
## 106	0	1	0	0	0	0	0
## 107	1	0	1	0	0	0	0
## 108	0	0	0	0	0	0	0
## 109	0	1	0	0	0	0	0
## 110	0	0	0	0	0	0	0
## 111	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0
## 113	0	0	0	0	0	0	0
## 114	0	0	0	0	0	0	0
## 115	0	0	0	0	0	0	0
## 116	0	1	0	0	0	0	0
## 117	0	0	0	0	0	0	0
## 118	0	0	0	0	0	0	1
## 119	0	0	0	0	0	0	0
## 120	0	0	0	0	0	0	0
## 121	0	0	0	0	0	0	0
## 122	0	1	0	0	0	0	0
## 123	0	0	0	0	0	0	0
## 124	1	0	0	0	0	0	0
## 125	0	0	0	0	0	0	0
## 126	0	0	0	0	0	0	0
## 127	0	1	0	0	0	0	0

## 128	0	0	0	0	0	0	0
## 129	0	0	0	0	0	0	0
## 130	0	0	0	0	0	0	0
## 131	0	0	0	0	1	1	0
## 132	0	0	0	0	0	0	0
## 133	0	0	0	0	0	0	0
## 134	0	0	1	0	0	0	0
## 135	0	0	0	0	0	0	0
## 136	0	1	0	0	0	0	0
## 137	0	0	0	0	0	0	0
## 138	0	0	0	0	0	0	0
## 139	0	0	0	0	0	0	0
## 140	0	0	0	0	0	1	0
## 141	0	0	0	0	0	0	0
## 142	0	0	0	0	0	0	0
## 143	0	0	0	0	0	0	1
## 144	0	1	0	0	0	0	0
## 145	0	0	0	0	0	0	0
## 146	0	0	0	0	0	0	0
## 147	0	0	0	0	0	0	0
## 148	0	0	0	0	0	0	0
## 149	0	0	0	0	0	0	0
## 150	0	0	0	0	0	0	0
## 151	0	0	0	0	0	0	1
## 152	0	0	0	0	0	1	0
## 153	0	0	0	0	0	0	0
## 154	0	0	0	0	0	0	0
## 155	0	0	0	0	0	0	0
## 156	0	0	0	0	0	0	0
## 157	0	0	0	0	0	0	0
## 158	0	0	0	0	0	0	0
## 159	0	1	0	0	0	0	0

## 160	0	0	0	0	0	0	0
## 161	0	0	0	0	0	0	0
## 162	0	0	0	0	0	0	1
## 163	0	0	0	0	0	0	0
## 164	0	0	0	0	0	0	0
## 165	0	0	0	0	0	1	0
## 166	0	0	0	0	0	0	0
## 167	0	0	0	0	0	0	0
## 168	0	0	0	0	0	0	0
## 169	0	0	0	0	0	0	0
## 170	0	0	0	0	0	0	0
## 171	0	0	0	0	0	0	0
## 172	0	0	0	0	0	0	0
## 173	0	0	0	0	0	0	0
## 174	0	0	0	0	0	0	0
## 175	0	0	0	0	0	0	0
## 176	0	1	0	0	0	0	0
## 177	0	0	0	0	0	0	0
## 178	0	0	0	0	0	0	0
## 179	0	0	0	0	0	0	0
## 180	0	0	0	0	0	0	0
## 181	0	0	0	0	0	0	0
## 182	0	0	1	0	0	1	1
## 183	0	0	0	0	0	0	0
## 184	0	0	0	0	0	0	0
## 185	0	0	0	0	0	0	0
## 186	0	0	0	0	0	0	0
## 187	1	0	0	1	1	0	0
## 188	0	0	0	0	0	0	0
## 189	0	0	0	0	0	0	0
## 190	0	0	0	0	0	0	0
## 191	0	0	0	0	0	0	0

## 192	0	0	0	0	0	0	0
## 193	0	0	0	1	0	1	0
## 194	0	0	0	0	0	0	0
## 195	0	0	0	0	0	0	0
## 196	0	0	0	0	0	0	0
## 197	0	0	1	0	0	0	0
## 198	0	0	0	0	0	0	0
## 199	0	0	0	0	0	0	0
## 200	0	0	0	0	0	0	0
## 201	0	0	0	0	0	0	0
## 202	0	0	0	0	0	0	0
## 203	0	0	0	0	0	0	0
## 204	0	0	0	0	0	0	0
## 205	0	0	0	0	1	0	0
## 206	0	0	0	0	0	0	0
## 207	0	0	0	0	0	0	0
## 208	0	0	0	0	0	0	0
## 209	0	0	0	0	0	0	0
## 210	0	0	0	0	0	0	0
## 211	0	0	0	0	0	0	0
## 212	0	0	0	0	0	0	0
## 213	0	0	0	0	0	0	0
## 214	0	0	0	0	0	0	0
## 215	0	0	0	0	0	0	0
## 216	0	0	0	0	0	0	0
## 217	0	0	0	0	0	0	0
## 218	0	0	0	0	0	0	0
## 219	0	0	0	0	1	0	0
## 220	0	0	0	0	0	0	0
## 221	0	0	0	1	0	0	0
## 222	0	0	1	0	0	0	0
## 223	0	0	0	0	0	0	0

## 224	0	0	0	0	0	0	0
## 225	0	0	0	0	0	0	0
## 226	0	0	0	0	0	1	0
## 227	0	0	0	0	0	0	0
## 228	0	0	0	1	0	0	0
## 229	0	0	0	0	0	0	0
## 230	0	0	0	1	0	0	0
## 231	0	0	0	0	0	0	0
## 232	0	0	0	0	0	0	0
## 233	0	0	0	0	0	0	0
## 234	0	0	1	0	0	0	0
## 235	0	0	0	1	0	0	0
## 236	0	0	0	0	0	0	0
## 237	0	0	0	1	0	0	0
## 238	0	0	0	0	0	0	0
## 239	0	0	0	0	0	0	0
## 240	0	0	0	0	0	0	0
## 241	0	0	0	0	0	0	0
## 242	0	0	0	0	0	0	0
## 243	0	0	0	1	0	0	0
## 244	0	0	0	0	0	0	0
## 245	0	0	0	0	0	0	0
## 246	0	0	0	0	0	0	0
## 247	0	0	0	0	0	0	0
## 248	0	0	0	0	0	0	0
## 249	0	0	0	0	0	0	0
## 250	0	0	0	0	0	0	0
## 251	0	0	0	0	0	0	0
## 252	0	0	0	0	1	0	0
## 253	0	0	0	0	0	0	0
## 254	0	0	0	0	0	0	0
## 255	0	0	0	0	0	0	0

## 256	0	1	0	0	0	0	0
## 257	0	0	0	0	0	0	0
## 258	0	0	0	0	0	0	0
## 259	0	0	0	0	0	0	0
## 260	0	0	0	0	0	0	0
## 261	1	0	0	0	0	0	0
## 262	0	0	0	0	0	0	0
## 263	0	0	0	0	0	0	0
## 264	0	0	0	0	0	0	0
## 265	0	0	0	0	0	0	0
## 266	0	0	0	0	0	0	0
## 267	0	0	0	0	0	0	0
## 268	0	0	0	0	0	0	0
## 269	0	0	0	0	0	0	0
## 270	0	0	0	0	0	0	0
## 271	0	0	0	0	0	0	0
## 272	0	0	0	0	0	0	0
## 273	0	0	0	0	0	0	0
## 274	0	0	0	0	0	0	0
## 275	0	1	0	0	0	0	0
## 276	0	1	0	0	0	0	0
## 277	0	0	0	0	0	0	0
## 278	0	0	0	0	0	0	0
## 279	0	0	0	0	0	0	0
## 280	0	0	0	0	0	0	0
## 281	0	1	0	0	0	0	0
## 282	0	0	0	0	0	0	0
## 283	0	0	0	0	0	0	1
## 284	0	0	0	0	0	0	0
## 285	0	0	0	0	0	0	0
## 286	0	0	0	0	0	0	0
## 287	0	0	0	0	0	0	0

## 288	0	0	0	0	0	0	0
## 289	0	0	0	0	0	0	0
## 290	0	0	0	0	0	0	0
## 291	0	0	0	0	0	0	0
## 292	0	0	0	0	0	0	0
## 293	0	0	0	0	0	0	0
## 294	0	0	0	0	0	0	0
## 295	0	0	0	0	0	0	0
## 296	0	0	0	0	0	0	0
## 297	1	0	0	0	0	0	0
## 298	0	0	0	0	0	0	0
## 299	0	0	0	0	0	0	0
## 300	0	1	0	0	0	0	0
## 301	0	0	0	0	0	0	0
## 302	0	1	0	0	0	0	0
## 303	0	0	0	0	0	0	0
## 304	0	0	0	0	0	0	0
## 305	0	1	0	0	0	0	0
## 306	0	1	0	0	0	0	0
## 307	0	1	0	0	0	0	0
## 308	0	0	0	0	0	0	0
## 309	0	0	0	0	0	0	0
## 310	0	0	0	0	0	0	0
## 311	0	0	0	0	0	0	0
## 312	0	0	0	0	0	0	0
## 313	0	0	0	0	0	0	0
## 314	0	0	0	0	0	0	0
## 315	0	0	0	0	0	0	0
## 316	0	0	0	0	0	0	0
## 317	0	0	0	0	0	0	0
## 318	0	0	0	0	0	0	0
## 319	0	0	0	0	0	0	0

## 320	0	0	0	0	0	0	0
## 321	0	0	0	0	0	0	0
## 322	0	0	0	0	0	0	0
## 323	0	0	0	0	0	0	0
## 324	0	0	0	0	0	0	0
## 325	0	0	0	0	0	0	0
## 326	0	0	0	0	0	0	0
## 327	0	0	0	0	0	0	0
## 328	0	0	0	0	0	0	0
## 329	0	1	0	0	0	0	0
## 330	0	0	0	0	0	0	0
## 331	0	0	0	0	0	0	0
## 332	0	0	0	0	0	0	0
## 333	0	0	0	0	0	0	0
## 334	0	0	0	0	0	0	0
## 335	0	0	0	0	0	0	0
## 336	0	0	0	0	0	0	0
## 337	0	0	0	0	0	0	0
## 338	0	0	0	0	0	0	0
## 339	0	0	0	0	0	0	0
## 340	0	0	0	0	0	0	0
## 341	0	0	0	0	0	0	0
## 342	0	0	0	0	0	0	0
## 343	0	0	0	0	0	0	0
## 344	0	0	0	0	0	0	0
## 345	0	0	0	0	0	0	0
## 346	0	0	0	0	0	0	0
## 347	0	0	0	0	0	0	0
## 348	0	0	0	0	0	0	0
## 349	0	0	0	0	1	0	0
## 350	0	0	0	0	0	0	0
## 351	0	0	0	0	0	0	0

## 352	0	0	0	0	0	0	0
## 353	0	0	0	0	0	0	0
## 354	1	0	1	0	0	0	0
## 355	0	0	0	0	0	0	0
## 356	0	0	0	0	0	0	0
## 357	0	0	0	0	0	0	0
## 358	0	0	0	0	0	0	0
## 359	0	0	1	0	0	0	0
## 360	0	0	0	0	0	0	0
## 361	0	0	0	0	0	0	0
## 362	0	0	0	0	0	1	0
## 363	0	0	0	0	0	0	0
## 364	0	0	0	0	0	0	0
## 365	0	0	0	0	0	0	0
## 366	0	0	0	0	0	0	0
## 367	0	0	0	0	0	0	0
## 368	0	0	0	0	0	0	0
## 369	0	0	0	0	0	0	0
## 370	0	0	0	0	0	1	0
## 371	0	0	0	0	0	0	0
## 372	0	0	0	0	0	0	0
## 373	0	0	0	1	0	0	0
## 374	0	0	1	0	0	0	0
## 375	0	0	0	0	0	0	0
## 376	0	0	0	0	0	0	0
## 377	0	0	0	0	0	0	0
## 378	0	1	0	0	0	0	0
## 379	0	0	0	0	0	0	0
## 380	0	0	0	0	0	0	0
## 381	0	0	0	0	0	0	0
## 382	0	0	0	0	0	0	0
## 383	0	0	0	0	0	1	0

## 384	0	0	0	0	0	0	0
## 385	0	0	0	0	0	0	0
## 386	0	1	0	0	0	0	0
## 387	0	0	0	0	0	0	0
## 388	0	1	0	0	0	0	0
## 389	0	0	0	0	0	0	0
## 390	0	1	0	0	0	0	0
## 391	0	1	0	0	0	0	0
## 392	0	0	0	0	0	0	0
## 393	0	0	0	0	0	0	0
## 394	1	0	0	0	1	0	0
## 395	0	0	0	0	0	0	1
## 396	0	0	0	0	0	0	0
## 397	1	0	0	0	0	0	0
## 398	0	0	0	1	1	0	0
## 399	0	0	0	0	0	0	0
## 400	0	0	0	0	0	0	0
## 401	0	0	0	0	0	0	0

##	mu_COL7A1	mu_CSMD1	mu_CUBN	mu_DMD	mu_DNAH8	mu_GOLGA6L2	mu_HYDIN	mu_MUC12
## 1	0	0	0	0	0	0	0	0
## 2	1	1	1	1	1	1	1	1
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	1	0	1
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	1	0	0
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	0	0	0	0	0	0	0	0

## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	0	0	0	0	0	0	0	0
## 18	0	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0	0
## 20	0	0	0	0	0	0	0	1
## 21	0	0	0	0	0	0	1	0
## 22	0	0	0	0	0	0	0	0
## 23	0	0	0	0	0	0	0	0
## 24	0	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0	0
## 26	0	0	0	0	0	0	0	0
## 27	0	0	0	0	0	0	0	0
## 28	0	0	0	0	0	0	0	0
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	1	0	0	0
## 31	0	0	0	0	0	0	0	0
## 32	0	0	0	0	0	0	0	0
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## 34	0	0	0	0	0	0	0	0
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## 40	0	0	0	0	0	0	0	0
## 41	0	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0	0
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## 47	0	0	0	0	0	1	0	0
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## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	1	0
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## 55	0	0	0	0	0	0	0	0
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## 75	0	0	0	0	0	0	1	0
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## 190	0	0	0	0	0	0	0	0
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## 192	0	0	0	1	0	0	0	0
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## 360	0	0	0	0	0	1	0	0
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## 394	0	0	0	1	1	0	0	1
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## 398	0	1	0	0	0	0	0	0
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## 401	0	0	0	0	0	0	0	0
##	mu_PLCE1	mu_RYR2	mu_USH2A	mu_AHNAK	mu_CDH23	mu_CEP350	mu_DNAH1	mu_DNAH7
## 1	0	0	0	0	0	0	0	0
## 2	1	1	1	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	1	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	1	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
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## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0
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## 15	0	0	0	0	0	0	0	0
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## 19	0	0	0	1	0	0	0	0
## 20	0	1	1	0	0	0	0	0
## 21	0	0	0	0	0	0	0	0
## 22	0	0	0	0	0	0	0	0
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##	mu_HERC2	mu_IGSF10	mu_KAT6B	mu_PIK3CA	mu_QSER1	mu_RB1	mu_TAF1L	mu_TCHH
----	----------	-----------	----------	-----------	----------	--------	----------	---------

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## 38	0	0	0	0	0	0	0	0
## 39	0	0	0	0	0	0	0	1
## 40	0	0	0	0	0	0	0	0
## 41	0	0	0	0	0	0	0	1

## 42	0	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0	0
## 44	0	0	0	0	0	0	0	0
## 45	0	0	0	1	0	0	0	0
## 46	1	0	1	0	0	0	0	0
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## 49	0	0	0	1	0	0	0	0
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## 55	0	0	0	1	0	0	0	0
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## 69	0	0	0	1	0	0	0	0
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## 74	0	0	0	0	0	0	0	0
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## 76	0	0	0	1	0	0	0	0
## 77	0	0	0	1	0	0	0	0
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## 86	0	0	0	0	0	0	0	0
## 87	0	0	0	1	0	0	0	0
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## 119	0	0	0	1	0	1	0	0
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## 269	0	0	0	0	0	0	0	0
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## 288	0	0	0	0	0	0	0	0
## 289	0	0	0	0	0	0	0	0
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## 291	0	0	0	1	0	0	0	0
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## 294	0	0	0	0	0	0	0	0
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## 301	0	0	0	1	0	0	0	0
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## 330	1	0	0	0	1	0	0	0
## 331	0	0	0	0	0	0	0	0
## 332	0	0	0	1	0	0	0	0
## 333	0	0	0	1	0	0	0	0
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## 355	0	0	0	0	0	0	0	0
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## 357	0	1	0	1	0	0	0	0
## 358	0	0	0	1	0	0	0	0
## 359	0	0	0	0	0	0	0	0
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## 364	0	0	0	0	0	0	0	0
## 365	0	0	0	1	0	0	0	0
## 366	0	0	0	0	0	0	0	0
## 367	0	0	0	1	0	0	0	0
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## 369	1	0	0	1	0	0	1	1
## 370	0	0	0	0	0	0	1	0
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## 372	0	0	0	0	0	0	0	0
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## 374	0	0	0	1	0	0	0	0
## 375	0	0	0	1	0	0	0	0
## 376	0	0	0	1	0	0	0	0
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## 378	0	0	0	1	0	0	0	0
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## 384	0	0	0	1	0	0	0	0
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## 388	0	0	0	0	0	0	0	0
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## 394	1	0	0	0	1	0	0	0
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##	mu_TEX15	mu_TP53	mu_ZFHX3	mu_SPEN	mu_FAT3	mu_MUC4	mu_OBSCN	mu_MUC20	mu_ODZ4
## 1	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0
## 3	0	0	0	1	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0
## 6	1	1	0	0	0	0	0	0	0
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## 8	0	1	0	0	0	0	0	0	0
## 9	0	1	0	0	0	1	0	0	0
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## 11	0	0	0	0	0	0	0	0	0
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## 26	0	0	0	0	0	0	0	0	0
## 27	0	0	0	0	0	0	0	0	0
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##	mu_ZAN	mu_AKAP9	mu_DNAH12	mu_DNAH5	mu_KIF26B	mu_NCOR1	mu_ARID1A	mu_ASPM
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## 218	0	0	0	0	0	0	0	0
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##	mu_CROCC	mu_DNAH17	mu_DSPP	mu_HRNR	mu_SVEP1	mu_ANK1	mu_CROCCP2	mu_MTOR
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## 223	0	0	0	0	1	0	0	1
## 224	0	0	0	0	0	0	0	0
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## 226	0	0	0	0	0	0	0	0
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## 228	0	0	0	0	0	0	0	0
## 229	0	0	0	0	0	0	0	0
## 230	0	0	0	1	0	0	0	0
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## 233	0	0	0	0	1	0	0	0
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## 239	0	0	0	0	1	0	0	0
## 240	0	0	0	0	0	0	0	0
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## 247	0	0	0	1	0	0	0	0
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## 264	0	0	0	0	1	0	0	0
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## 278	0	0	0	0	0	0	0	0
## 279	0	0	0	0	0	0	0	0
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## 286	0	0	0	0	0	0	0	0
## 287	0	0	0	0	1	0	0	0
## 288	0	0	0	0	0	0	0	0
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## 290	0	0	0	0	0	0	0	0
## 291	0	0	0	0	1	0	0	0
## 292	0	0	0	0	1	0	0	0
## 293	0	0	0	0	0	0	0	0
## 294	0	0	0	0	1	0	0	0
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## 296	0	0	0	0	0	0	0	0
## 297	0	0	0	0	0	0	0	0
## 298	0	0	0	0	0	0	0	0
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## 301	0	0	0	0	0	0	0	0
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## 304	0	0	0	0	0	0	0	0
## 305	0	0	0	0	0	0	0	0
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## 307	0	0	0	0	1	0	0	0
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## 319	0	0	0	0	1	0	0	0
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## 339	0	0	0	0	0	0	0	1
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## 344	0	0	0	0	0	0	0	0
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## 346	0	0	0	0	0	0	0	0
## 347	0	0	0	0	1	0	0	0
## 348	0	0	0	0	1	0	0	0
## 349	0	0	0	0	1	0	0	0
## 350	0	0	0	0	0	0	0	0
## 351	0	0	0	0	1	0	0	0
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## 354	0	0	1	0	1	0	0	1
## 355	0	0	0	0	0	0	0	0
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## 357	0	0	0	0	1	0	0	0
## 358	0	0	0	0	0	0	0	0
## 359	0	0	0	0	0	0	0	0
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## 367	0	0	0	0	0	0	0	0
## 368	0	0	0	0	1	0	1	0
## 369	0	0	0	0	1	0	1	0
## 370	0	0	0	0	1	0	0	0
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## 376	0	0	0	1	0	0	0	0
## 377	0	0	0	0	1	0	0	0
## 378	0	0	0	0	0	0	0	0
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## 382	0	0	0	1	0	0	0	0
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## 384	0	0	0	0	1	0	0	0
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## 386	0	0	0	0	0	0	0	0
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## 394	0	0	0	0	1	0	1	0
## 395	0	0	0	0	0	0	0	0
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## 399	0	0	0	0	0	0	0	0
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##	mu_TNRC6B	mu_NF1	mu_PCLO	mu_ADAMTSL1	mu_CACNA1D	mu_FBN3	mu_MEGF8	mu_DST
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	1	0	0	0	0	0	0	0
## 7	0	1	1	0	0	0	0	0
## 8	0	0	0	0	0	0	0	1
## 9	1	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
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## 42	0	0	0	0	0	0	0	0
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## 48	0	0	0	0	0	0	0	0
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## 50	0	0	0	0	0	0	0	0
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## 55	0	0	0	0	0	0	0	0
## 56	0	0	0	0	0	1	0	0
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## 59	0	0	0	0	0	0	0	0
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## 61	0	0	0	0	0	0	0	0
## 62	0	0	0	0	0	0	1	0
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## 65	0	0	0	0	0	0	0	0
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## 87	0	0	0	0	0	0	0	0
## 88	0	1	1	0	0	0	0	1
## 89	0	0	0	0	0	0	0	0
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## 91	0	0	1	0	0	0	0	0
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## 141	0	1	0	0	0	0	0	0
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## 208	0	0	0	0	0	0	0	0
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## 211	0	0	0	0	0	0	0	0
## 212	0	1	0	0	0	0	0	0
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## 228	0	0	0	0	0	0	0	0
## 229	0	0	0	0	0	0	0	0
## 230	0	0	0	0	0	0	0	0
## 231	1	0	0	0	0	0	0	0
## 232	0	0	0	1	0	0	0	0
## 233	0	0	0	1	0	0	0	1
## 234	0	0	0	0	0	0	0	0
## 235	0	0	0	0	0	0	0	0
## 236	0	0	0	0	0	0	0	0
## 237	0	0	0	0	0	0	0	0
## 238	0	0	0	0	0	0	0	0
## 239	0	0	0	0	0	0	0	0
## 240	0	0	0	0	0	0	0	0
## 241	0	0	0	0	1	0	0	0
## 242	0	0	0	0	0	0	0	0
## 243	0	0	0	0	0	0	0	0
## 244	0	0	0	0	0	0	0	0
## 245	0	0	0	0	0	0	0	0
## 246	0	0	0	0	0	0	0	0
## 247	0	0	0	0	0	0	0	0
## 248	0	0	0	0	0	0	0	0
## 249	0	0	0	0	0	0	0	0
## 250	0	0	0	0	0	0	0	0
## 251	0	0	0	0	0	0	0	0
## 252	0	0	0	0	0	0	0	0
## 253	0	0	0	0	0	0	0	0

## 254	0	0	0	0	0	0	0	0
## 255	0	0	0	0	0	0	0	0
## 256	0	0	0	0	0	0	0	0
## 257	0	0	0	0	0	0	0	0
## 258	0	0	0	0	0	0	0	0
## 259	0	0	0	0	0	0	0	0
## 260	0	0	0	0	0	0	0	0
## 261	0	0	0	0	0	0	0	0
## 262	0	0	0	0	0	0	0	0
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## 264	0	0	0	0	0	0	0	0
## 265	0	0	0	0	0	0	0	0
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## 267	0	0	0	0	0	0	0	0
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## 269	0	0	0	0	0	0	0	0
## 270	0	0	0	0	0	0	0	0
## 271	0	0	0	0	0	0	0	0
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## 273	0	0	0	0	0	0	0	0
## 274	0	0	0	0	0	0	0	0
## 275	0	0	0	0	0	0	0	0
## 276	0	0	0	0	0	0	0	0
## 277	0	0	0	0	1	0	0	0
## 278	0	0	0	0	0	0	0	1
## 279	0	0	0	0	0	0	0	0
## 280	0	0	0	0	0	0	0	0
## 281	0	0	0	0	0	0	0	0
## 282	0	0	0	0	0	0	0	0
## 283	0	0	0	0	0	0	0	0
## 284	0	0	0	0	0	0	0	0
## 285	0	0	0	0	0	0	0	0

## 286	0	0	0	0	0	0	0	0
## 287	0	0	0	0	0	0	0	0
## 288	0	0	0	0	0	0	0	0
## 289	0	0	0	0	0	0	0	0
## 290	0	0	0	0	0	0	0	0
## 291	0	0	0	0	0	0	0	0
## 292	0	0	0	0	0	0	0	0
## 293	0	0	0	0	0	0	0	0
## 294	0	0	0	0	0	0	0	0
## 295	0	1	0	0	0	0	0	0
## 296	0	0	0	0	0	0	0	0
## 297	0	0	0	0	0	0	0	0
## 298	0	0	0	0	0	0	0	0
## 299	0	0	0	0	0	0	0	0
## 300	0	0	0	0	0	0	0	0
## 301	0	0	0	0	0	0	0	0
## 302	1	0	0	0	1	1	1	0
## 303	0	0	0	0	0	0	0	0
## 304	0	0	0	0	0	0	0	0
## 305	0	0	0	0	0	0	0	0
## 306	0	0	0	0	0	0	0	0
## 307	0	1	0	0	0	0	1	0
## 308	0	0	0	0	0	0	0	0
## 309	0	0	0	0	0	0	0	0
## 310	0	0	0	0	0	0	0	0
## 311	0	0	0	0	0	0	0	0
## 312	0	0	0	0	0	0	0	0
## 313	0	0	0	0	0	0	0	0
## 314	0	0	0	0	0	0	0	0
## 315	0	0	0	0	0	0	0	0
## 316	0	0	0	0	0	0	0	0
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## 318	0	0	0	0	0	0	0	0
## 319	0	0	0	0	0	0	0	0
## 320	0	0	0	0	0	0	0	0
## 321	0	0	0	0	0	0	0	0
## 322	0	0	0	0	0	0	0	0
## 323	0	0	0	0	0	0	0	0
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## 325	0	0	0	0	0	0	0	0
## 326	0	0	0	0	0	1	0	0
## 327	0	0	0	0	0	0	0	0
## 328	0	0	0	0	0	0	0	0
## 329	0	0	0	0	0	0	0	0
## 330	0	0	0	1	0	0	0	0
## 331	0	0	0	0	0	0	0	0
## 332	0	0	0	0	1	0	0	0
## 333	0	0	0	0	0	0	0	0
## 334	0	0	0	0	0	0	0	0
## 335	0	0	0	0	0	0	0	0
## 336	0	0	0	0	0	0	0	0
## 337	0	0	0	0	0	0	0	0
## 338	0	0	0	0	0	0	0	0
## 339	0	0	0	0	0	0	0	0
## 340	0	0	0	0	0	0	0	0
## 341	0	0	0	0	0	0	0	0
## 342	0	0	0	0	0	1	0	0
## 343	0	0	0	0	0	0	0	0
## 344	0	0	0	0	0	0	0	0
## 345	0	0	0	0	0	1	0	0
## 346	0	0	0	0	0	0	0	0
## 347	0	0	0	0	0	0	0	0
## 348	0	0	0	0	0	0	0	0
## 349	0	0	0	0	0	0	1	1

## 350	0	0	0	0	0	0	0	0
## 351	0	0	0	0	0	0	0	0
## 352	0	0	0	0	0	0	0	0
## 353	0	0	0	0	0	0	0	0
## 354	0	0	0	0	1	1	0	0
## 355	0	0	0	0	0	0	0	0
## 356	0	0	0	0	0	0	0	0
## 357	0	0	0	0	0	0	0	0
## 358	0	0	0	0	0	0	0	0
## 359	0	0	0	0	0	0	0	0
## 360	0	0	0	0	0	0	0	1
## 361	0	0	0	0	0	0	1	0
## 362	0	0	0	0	0	0	0	0
## 363	0	0	0	0	0	0	0	0
## 364	0	0	0	0	0	0	0	0
## 365	0	0	0	0	0	0	0	0
## 366	0	0	0	0	0	0	0	0
## 367	0	0	0	0	0	0	0	0
## 368	0	0	0	0	1	0	0	0
## 369	0	0	0	0	0	0	0	0
## 370	0	0	0	0	0	0	0	0
## 371	0	1	0	0	1	0	0	0
## 372	0	0	0	0	0	0	0	0
## 373	0	0	0	0	0	0	0	0
## 374	0	0	0	0	0	0	0	0
## 375	0	0	0	0	0	0	0	0
## 376	0	0	0	0	0	0	0	0
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## 378	0	0	0	0	0	0	0	0
## 379	0	0	0	0	0	0	0	0
## 380	0	0	0	0	0	0	0	0
## 381	0	0	0	0	0	0	0	0

## 382	0	0	0	0	0	0	0	0	
## 383	0	0	0	0	0	0	0	0	
## 384	0	0	0	0	0	0	0	1	
## 385	0	0	0	0	0	0	0	0	
## 386	0	0	0	0	0	0	0	0	
## 387	0	0	0	0	0	0	0	0	
## 388	0	0	0	0	0	0	0	0	
## 389	0	0	0	0	0	0	0	0	
## 390	0	0	0	0	0	0	0	0	
## 391	0	0	0	0	0	0	0	0	
## 392	0	0	0	0	0	0	0	0	
## 393	0	0	0	0	0	0	0	0	
## 394	1	0	1	0	0	0	0	0	
## 395	0	1	0	0	1	0	0	0	
## 396	0	0	0	0	1	0	0	0	
## 397	0	0	0	0	0	0	0	0	
## 398	0	0	0	0	0	0	0	0	
## 399	0	0	0	0	0	0	0	0	
## 400	0	0	0	0	0	0	0	0	
## 401	0	0	0	0	0	0	0	0	
##	mu_FAT4	mu_FREM1	mu_MUC17	mu_TG	mu_TLN1	mu_DNAH3	mu_MGAM	mu_NEB	mu_RNF213
## 1	0	0	0	0	0	0	0	0	
## 2	0	0	0	0	0	0	0	0	
## 3	0	0	0	0	0	0	0	0	
## 4	0	0	0	0	0	0	0	0	
## 5	0	0	0	0	0	0	0	0	
## 6	0	0	0	0	0	0	0	0	
## 7	0	0	0	0	0	0	0	0	
## 8	0	0	0	0	0	0	0	0	
## 9	0	0	0	0	0	0	0	0	
## 10	0	0	0	0	0	0	0	0	
## 11	0	0	0	0	0	0	1	1	

## 108	0	0	0	0	0	0	0	0	1
## 109	0	0	0	0	0	0	0	0	1
## 110	0	0	0	0	0	0	0	0	0
## 111	0	0	1	0	1	0	0	0	0
## 112	0	0	0	0	0	0	0	0	0
## 113	0	1	0	0	0	0	0	0	0
## 114	0	0	0	0	0	0	0	0	0
## 115	0	0	0	0	0	0	0	0	0
## 116	0	0	0	0	0	0	0	0	0
## 117	0	0	0	0	0	0	0	0	0
## 118	0	0	0	0	0	1	0	0	0
## 119	0	0	0	0	0	0	0	0	1
## 120	0	0	0	0	0	0	0	0	0
## 121	0	0	0	0	0	0	1	0	0
## 122	0	0	0	0	0	0	0	0	0
## 123	0	0	0	0	0	0	0	0	0
## 124	0	0	0	0	0	0	0	0	1
## 125	0	0	0	0	0	0	0	0	1
## 126	0	0	0	0	0	0	0	0	0
## 127	0	0	1	0	0	0	0	0	0
## 128	0	0	0	0	0	0	0	0	0
## 129	0	0	0	0	0	0	0	0	0
## 130	0	0	0	0	0	0	0	0	0
## 131	1	0	0	1	0	0	0	1	1
## 132	0	0	0	0	0	0	0	0	0
## 133	0	0	0	0	0	0	0	0	0
## 134	0	0	0	0	1	0	0	0	0
## 135	0	0	0	0	0	0	0	0	0
## 136	0	0	0	0	0	0	0	0	0
## 137	0	0	0	0	0	0	0	0	0
## 138	0	0	0	0	0	0	0	0	0
## 139	0	1	0	0	0	0	0	0	0

## 140	1	0	0	1	0	1	0	0	0
## 141	0	0	0	0	0	0	0	0	0
## 142	0	0	1	0	0	0	0	0	0
## 143	0	0	0	0	1	0	0	0	0
## 144	0	0	0	0	0	0	0	0	0
## 145	0	0	0	0	0	0	0	0	0
## 146	0	0	0	0	0	0	0	0	0
## 147	0	0	0	0	0	0	0	0	0
## 148	0	0	0	0	0	0	0	0	0
## 149	0	0	0	0	0	0	0	0	0
## 150	0	0	1	1	0	0	0	0	0
## 151	0	0	0	0	0	1	0	0	0
## 152	0	0	0	0	0	0	0	0	0
## 153	0	0	0	0	0	0	0	0	0
## 154	0	0	0	0	0	0	0	0	0
## 155	0	0	0	0	0	0	0	0	0
## 156	0	0	0	0	0	0	0	0	0
## 157	0	0	0	0	0	0	0	0	0
## 158	0	0	0	0	0	0	0	0	0
## 159	0	0	0	0	0	0	0	0	0
## 160	0	0	0	0	0	0	0	0	0
## 161	0	0	0	0	0	1	0	0	0
## 162	0	0	1	0	0	1	0	0	0
## 163	0	0	0	0	0	0	0	0	0
## 164	0	0	0	0	0	0	1	1	0
## 165	0	0	0	0	0	0	0	0	0
## 166	0	0	0	0	0	0	0	0	0
## 167	0	0	0	0	0	0	0	0	0
## 168	0	0	0	0	0	0	0	0	0
## 169	0	0	0	0	0	0	0	0	0
## 170	0	0	0	0	0	0	0	0	0
## 171	0	0	0	0	1	0	0	0	0

## 396	0	0	0	0	0	0	0	0	0
## 397	0	0	0	0	0	0	0	0	0
## 398	0	1	1	1	0	0	0	0	0
## 399	0	0	0	0	0	0	0	0	0
## 400	0	0	0	0	0	0	0	0	0
## 401	0	0	0	0	0	0	0	0	0

##	mu_SPTA1	mu_FLNC	mu_MLL2	mu_PDE4DIP	mu_MYH9	mu_AFF2	mu_COL6A5	mu_CTCF
----	----------	---------	---------	------------	---------	---------	-----------	---------

## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
## 13	1	0	0	0	0	0	0	0
## 14	0	0	0	0	1	0	0	0
## 15	0	0	0	0	0	1	1	1
## 16	0	0	0	0	0	0	0	0
## 17	0	0	1	0	0	0	0	0
## 18	0	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0	0
## 20	0	0	0	0	0	0	0	0
## 21	0	0	0	0	0	0	0	0
## 22	0	0	0	0	0	0	0	0
## 23	0	0	0	0	0	0	0	0
## 24	0	0	0	0	0	0	0	0
## 25	0	0	0	0	0	0	0	0

## 26	0	0	0	0	0	0	0	0
## 27	0	0	0	0	0	0	0	0
## 28	0	0	0	0	0	0	0	0
## 29	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0	0
## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
## 35	0	0	0	0	0	1	0	0
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## 37	0	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	0	0
## 39	0	0	0	0	0	0	0	0
## 40	0	0	0	0	0	0	0	0
## 41	0	0	0	0	0	0	0	0
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## 45	0	0	0	0	0	0	0	0
## 46	0	0	1	0	1	0	1	0
## 47	0	0	0	0	0	0	0	0
## 48	0	0	0	0	0	0	0	0
## 49	0	0	0	0	0	0	0	0
## 50	0	0	0	0	0	0	0	0
## 51	0	0	0	0	0	0	0	0
## 52	0	0	0	0	0	0	0	1
## 53	0	0	0	0	0	0	0	0
## 54	0	0	0	0	0	0	0	0
## 55	0	0	0	0	0	0	0	0
## 56	0	0	0	0	0	0	0	0
## 57	0	0	0	0	0	0	0	0

## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0
## 60	0	0	0	0	0	0	0	0
## 61	0	0	0	0	0	0	0	0
## 62	0	0	0	0	0	0	0	0
## 63	0	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0	0
## 65	0	0	0	0	0	0	0	0
## 66	0	0	0	0	0	0	1	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	1	0	0
## 69	0	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0	0
## 75	0	0	0	0	0	0	0	0
## 76	0	0	0	0	0	0	0	0
## 77	0	0	0	0	0	0	0	0
## 78	0	0	0	0	0	0	0	0
## 79	1	0	0	0	0	0	0	0
## 80	0	1	0	0	0	0	0	0
## 81	0	0	0	0	0	0	0	0
## 82	0	0	0	0	0	0	0	0
## 83	0	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0	0
## 85	0	0	0	0	0	0	0	0
## 86	0	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0	0
## 88	0	0	0	0	0	0	0	0
## 89	0	0	0	0	0	0	0	0

## 90	0	0	0	0	0	0	0	0
## 91	0	0	0	0	0	0	0	0
## 92	0	0	1	0	0	0	0	0
## 93	0	0	0	0	0	0	0	0
## 94	0	0	0	0	0	0	0	0
## 95	0	0	0	0	0	0	0	0
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## 97	0	0	0	0	0	0	0	0
## 98	0	0	0	0	0	0	0	0
## 99	0	0	0	0	0	0	0	0
## 100	0	0	0	0	0	0	0	0
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## 104	0	0	0	0	0	0	0	0
## 105	0	0	0	0	0	0	0	0
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## 108	0	0	0	0	0	0	0	0
## 109	0	0	0	0	0	0	0	0
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## 111	0	0	0	0	0	0	0	0
## 112	0	0	0	0	0	0	0	0
## 113	0	0	0	0	0	0	0	0
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## 116	0	0	0	0	0	0	0	0
## 117	0	0	0	0	0	0	0	0
## 118	0	0	0	0	0	0	0	0
## 119	0	0	0	0	0	0	0	0
## 120	0	0	0	0	0	0	0	0
## 121	0	0	0	0	0	0	0	0

## 122	0	0	1	0	0	0	0	0
## 123	0	0	0	0	0	0	0	0
## 124	0	0	0	0	0	0	0	0
## 125	0	0	0	0	0	0	0	0
## 126	0	0	0	0	0	0	0	0
## 127	0	0	0	0	0	0	0	0
## 128	0	0	0	0	0	0	0	0
## 129	0	1	0	0	0	0	0	0
## 130	0	0	0	0	0	0	0	0
## 131	1	0	0	0	0	0	0	0
## 132	0	0	0	0	0	0	0	0
## 133	0	0	0	0	1	0	0	0
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## 135	0	0	0	0	0	0	0	0
## 136	0	0	0	0	0	0	0	0
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## 140	0	1	1	0	0	0	0	0
## 141	0	0	0	0	0	0	0	0
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## 146	0	0	0	0	0	0	0	0
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## 399	0	0	0	0	0	0	0	0
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[illegible]

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## 293	0	0	0	0	1	0	0	0	0
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## 295	0	0	0	0	1	0	0	0	0

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## 378	0	0	0	0	0	0	0	0	
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## 401	0	0	0	0	0	0	0	0	
##	mu_RP1	mu_RUNX1	mu_TBP	mu_WDR52	mu_BIRC6	mu_FAT1	mu_TPR	mu_FRAS1	mu_RELN
## 1	0	0	0	0	0	0	0	0	
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## 3	0	0	0	0	0	0	0	0	

## 100	0	0	0	0	0	0	0	0	0
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## 345	0	0	0	0	0	0	0	0	0
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##	mu_RPGR	mu_NOTCH2	mu_DNHD1	mu_XIRP2	mu_ANKRD30BL	mu_CBF3	mu_PDE3A
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## 380	0	0	0	0	0	0	0
## 381	0	0	0	0	0	0	1
## 382	0	0	0	0	0	0	0
## 383	0	0	0	0	0	0	0
## 384	0	0	0	0	0	0	0
## 385	0	0	0	0	0	0	0
## 386	0	0	0	0	0	0	0
## 387	0	0	0	0	0	0	0
## 388	0	0	0	0	0	0	0
## 389	0	0	0	0	0	0	0
## 390	0	0	0	0	0	0	0
## 391	0	0	0	0	0	0	0
## 392	0	0	0	0	0	0	0
## 393	0	0	0	0	0	0	0
## 394	0	0	1	0	0	0	0
## 395	0	0	0	0	0	0	0
## 396	0	0	0	0	0	0	0
## 397	0	0	0	0	0	0	0
## 398	0	0	0	0	0	0	0
## 399	0	0	0	0	0	0	0
## 400	0	0	0	0	0	0	0
## 401	0	0	0	0	0	0	0

##	mu_CACNA1A	mu_THSD7B	mu_ABCA13	mu_EYS	mu_PKD1L1	mu_RYR3	mu_FRG1B	mu_HUWE1
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
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## 13	0	0	0	0	0	0	0	0
## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
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## 17	0	0	0	0	0	0	0	0
## 18	0	0	0	0	0	0	0	0
## 19	0	0	0	0	0	0	0	0
## 20	0	0	0	0	0	0	0	0
## 21	0	0	0	0	0	0	0	0
## 22	0	0	0	0	0	0	0	0
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## 27	0	0	0	0	0	0	0	0
## 28	0	0	1	1	1	1	0	0
## 29	0	0	0	0	0	0	1	1
## 30	0	0	0	0	0	0	0	0
## 31	0	0	0	0	0	0	0	0

## 32	0	0	0	0	0	0	0	0
## 33	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0
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## 43	0	0	0	0	0	1	0	0
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## 45	0	0	0	0	0	0	0	0
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## 47	0	0	0	0	0	0	0	0
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## 54	0	0	0	0	0	0	0	0
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## 57	0	0	0	0	0	1	0	0
## 58	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0
## 60	0	0	0	0	0	0	0	0
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## 63	0	0	0	0	0	0	0	0

## 64	0	0	0	0	0	0	0	0
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## 85	0	0	0	0	0	0	0	0
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## 87	0	0	0	0	0	0	0	0
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## 89	0	0	0	0	0	0	0	0
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## 91	1	0	1	0	0	0	0	0
## 92	0	0	0	0	1	0	0	0
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## 96	0	0	0	0	0	0	0	0
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## 109	0	0	0	0	0	0	0	0
## 110	0	0	1	0	0	0	0	0
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## 132	0	1	0	0	0	0	0	0
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## 145	0	0	0	0	0	0	0	0
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## 232	0	0	1	0	0	0	0	0
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## 258	0	0	0	0	0	0	0	0
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## 294	0	0	1	0	0	0	0	0
## 295	0	0	0	0	0	0	0	0
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## 297	0	0	0	0	0	0	1	0
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## 301	0	0	0	0	0	0	0	0
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## 304	0	0	0	0	0	0	0	0
## 305	0	0	0	0	0	0	0	0
## 306	0	0	0	0	0	0	0	0
## 307	0	0	0	0	0	0	0	1
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## 310	0	0	0	0	0	0	0	0
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## 312	0	0	0	0	0	0	0	0
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## 327	0	0	0	0	1	0	0	0
## 328	0	0	0	1	0	0	0	0
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## 348	0	0	0	0	0	0	0	0
## 349	0	0	0	1	0	0	0	0
## 350	0	0	0	0	0	0	0	0
## 351	0	0	0	0	0	0	0	0

## 352	0	0	0	1	0	0	0	0
## 353	0	0	0	0	0	0	0	0
## 354	0	0	0	1	0	0	0	0
## 355	0	0	0	0	0	0	0	0
## 356	0	0	0	0	0	0	0	0
## 357	1	0	0	0	0	0	0	0
## 358	0	0	0	0	0	0	0	0
## 359	0	0	0	0	0	0	0	0
## 360	0	0	0	0	0	0	0	1
## 361	0	0	0	0	0	0	0	0
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## 365	0	0	0	0	0	0	0	0
## 366	0	0	0	0	0	0	0	0
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## 370	0	1	0	0	0	0	0	0
## 371	0	1	1	0	1	1	0	1
## 372	0	0	0	0	0	0	0	0
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## 374	0	0	0	0	1	0	0	0
## 375	0	0	0	0	0	0	0	0
## 376	0	0	0	0	0	0	0	0
## 377	0	0	0	0	0	0	0	0
## 378	0	0	0	0	0	0	0	0
## 379	0	0	0	0	0	0	0	0
## 380	0	0	0	0	0	0	1	0
## 381	0	0	0	1	0	0	0	0
## 382	0	0	0	0	0	0	1	0
## 383	0	0	0	0	0	0	0	0

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##	mu_FOXA1	mu_FCGBP	mu_CACNA1E	mu_ANKRD12	mu_CHD5	mu_GRID1	mu_KIF4A	mu_MLL
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## 388	0	0	0	0	0	0	0	0
## 389	0	0	0	0	0	0	0	0
## 390	0	0	0	0	0	0	0	0
## 391	0	0	0	0	0	0	0	0
## 392	0	0	0	0	0	0	0	0
## 393	0	0	0	0	0	0	0	0
## 394	0	0	0	0	0	0	0	1
## 395	0	0	0	0	0	0	0	0
## 396	0	0	0	0	0	1	0	0
## 397	0	0	0	0	0	0	0	0

## 398	0	0	1	0	0	0	0	0
## 399	0	0	0	0	0	0	0	0
## 400	0	0	0	0	0	0	0	0
## 401	0	0	0	0	0	0	0	0
##	mu_PCXL2	mu_PRKDC	mu_SI	mu_PTPRB	mu_CACNA1C	mu_CSPP1	mu_PREX2	mu_SMG1
## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0
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## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
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## 14	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0
## 17	0	0	0	0	0	0	0	0
## 18	0	0	0	0	0	0	0	0
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## 22	0	0	0	0	0	0	0	0
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## 30	0	0	0	0	0	0	0	0
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## 36	0	0	0	0	0	0	0	0
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## 382	0	0	0	0	0	0	0	0
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## 391	0	0	0	0	0	0	0	0
## 392	0	0	0	0	0	0	0	0
## 393	0	0	0	0	0	0	0	0
## 394	0	1	0	0	0	0	0	1
## 395	0	0	0	1	0	0	0	0
## 396	0	0	0	0	0	0	0	1
## 397	0	0	0	0	0	0	0	0
## 398	0	0	0	0	0	0	0	0
## 399	0	0	0	0	1	0	0	0
## 400	0	0	0	0	0	0	0	0
## 401	0	0	0	0	0	0	0	0

##	mu_UBR5	mu_KIAA1210	mu_COL6A3	mu_ODZ1	mu_AHNAK2	mu_AKAP13	mu_ASTN1
----	---------	-------------	-----------	---------	-----------	-----------	----------

## 1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0

## 10	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0
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## 14	0	0	0	0	0	0	0
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## 49	0	0	0	0	0	0	0
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## 78	0	0	0	0	0	0	0
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## 98	0	0	0	1	0	0	0
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## 283	0	0	0	0	0	0	0
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## 286	0	0	0	0	0	0	0
## 287	0	0	0	0	0	0	0
## 288	0	0	0	0	0	0	0
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## 290	0	0	0	0	0	0	0
## 291	0	0	0	0	0	0	0
## 292	0	0	0	1	0	0	0
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## 294	0	0	0	0	1	0	0
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## 302	0	0	1	0	0	1	0
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## 333	0	0	0	0	0	0	0
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## 359	0	0	0	0	0	0	0
## 360	1	0	0	0	0	0	0
## 361	0	0	0	0	0	0	0

## 362	0	0	0	0	0	0	0
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## 364	0	0	0	0	1	0	0
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## 366	0	0	0	0	0	0	0
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##	mu_CACNA1F	mu_CHD6	mu_CHD8	mu_CNTNAP2	mu_DNAH2	mu_DYNC1H1	mu_FLNA	mu_GRIN2A
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## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
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## 7	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0
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##	mu_ERBB2	mu_SETD2	mu_VCAN	mu_WDFY3	mu_ATM	mu_UTRN	mu_VPS13B	mu_MAP2
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##	mu_ITPR2	mu_TBX3	mu_F8	mu_AKD1	mu_ERBB3	mu_CENPE	mu_ABCA12	mu_C9orf174
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## 4	0	0	0	0	0	0	0	0
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##	mu_FLG2	mu_PCDH19	mu_VPS13A	mu_PAPPA2	mu_PDZD2	mu_BCORL1	mu_APC	mu_PRUNE2
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## 1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0
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## 61	0	0	0	0	0	0	0
## 62	0	0	0	0	0	0	0
## 63	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0
## 65	0	0	0	0	0	0	0
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0
## 69	0	0	0	0	0	0	0
## 70	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0

## 72	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0
## 74	0	0	0	0	0	0	0
## 75	0	0	0	0	0	0	0
## 76	0	0	0	0	0	0	0
## 77	0	0	0	0	0	0	0
## 78	0	0	0	0	0	0	0
## 79	0	0	0	0	0	0	0
## 80	0	0	0	0	0	0	0
## 81	0	0	0	0	0	0	0
## 82	0	0	0	0	0	0	0
## 83	0	0	0	0	0	0	0
## 84	0	0	0	0	0	0	0
## 85	0	0	0	0	0	0	0
## 86	0	0	0	0	0	0	0
## 87	0	0	0	0	0	0	0
## 88	1	0	0	0	0	0	0
## 89	0	0	0	0	0	0	0
## 90	0	0	0	0	0	0	0
## 91	0	1	0	0	0	0	0
## 92	0	0	0	0	0	0	0
## 93	0	0	0	0	0	0	0
## 94	0	0	0	1	0	0	0
## 95	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0
## 97	0	0	0	0	0	0	0
## 98	0	0	0	0	0	0	0
## 99	0	0	0	0	0	0	0
## 100	0	0	0	0	0	0	0
## 101	0	0	0	0	0	0	0
## 102	0	0	0	0	0	0	0
## 103	0	0	0	0	1	0	0

## 104	0	0	0	0	0	0	0
## 105	0	0	1	1	0	1	0
## 106	0	0	0	0	0	0	0
## 107	0	0	0	0	0	0	0
## 108	0	0	0	0	0	0	0
## 109	0	0	0	0	0	0	0
## 110	0	0	0	0	0	0	0
## 111	0	1	1	0	0	1	0
## 112	0	0	0	0	0	0	0
## 113	1	0	0	0	0	0	0
## 114	0	0	0	0	0	0	0
## 115	0	0	0	0	0	0	0
## 116	0	0	0	0	0	0	0
## 117	0	0	0	0	0	0	0
## 118	0	1	0	0	0	0	0
## 119	0	0	1	0	0	0	0
## 120	0	0	0	0	0	0	0
## 121	0	0	0	0	0	0	0
## 122	0	0	0	0	0	0	0
## 123	0	0	0	0	0	0	0
## 124	0	0	0	0	0	1	1
## 125	0	0	0	0	0	0	0
## 126	0	0	0	0	0	0	0
## 127	0	0	0	0	0	0	0
## 128	0	0	0	0	0	0	0
## 129	0	0	0	0	0	1	0
## 130	0	0	0	0	0	0	0
## 131	0	0	0	1	1	1	1
## 132	0	0	0	0	0	0	0
## 133	0	0	0	0	0	0	0
## 134	0	0	0	0	0	0	0
## 135	0	0	0	0	0	0	0

## 136	0	0	0	0	0	0	0
## 137	0	1	0	0	0	0	0
## 138	0	0	0	0	0	0	0
## 139	0	0	0	0	1	0	0
## 140	1	0	0	1	1	0	0
## 141	0	0	0	1	0	0	0
## 142	0	0	0	0	0	0	0
## 143	0	0	0	1	0	0	0
## 144	0	0	0	0	0	0	0
## 145	0	0	0	0	0	0	0
## 146	0	0	0	0	0	0	0
## 147	0	0	0	0	0	0	0
## 148	0	0	0	0	0	0	0
## 149	0	0	0	0	0	0	0
## 150	0	0	0	0	0	0	0
## 151	0	0	0	1	0	0	0
## 152	0	0	0	0	0	0	0
## 153	0	0	0	0	0	0	0
## 154	0	0	0	0	0	0	0
## 155	0	0	0	0	0	0	0
## 156	0	0	1	0	0	0	0
## 157	0	0	0	0	0	0	0
## 158	0	0	0	0	0	0	0
## 159	0	0	0	0	0	0	0
## 160	0	0	0	0	0	0	0
## 161	0	0	0	0	0	0	0
## 162	0	0	0	0	1	0	0
## 163	0	0	0	0	0	0	0
## 164	0	0	0	0	1	1	0
## 165	0	0	0	0	0	0	0
## 166	0	1	0	0	0	0	0
## 167	0	0	0	0	0	0	0

## 168	0	0	1	0	0	0	0
## 169	0	0	0	0	1	0	0
## 170	0	0	0	0	0	0	0
## 171	0	0	0	0	0	0	0
## 172	0	0	0	0	0	0	0
## 173	0	0	0	0	0	0	0
## 174	0	0	0	0	0	0	0
## 175	0	0	0	0	0	0	0
## 176	0	0	0	0	0	0	0
## 177	0	0	0	0	0	0	0
## 178	0	0	0	0	0	0	0
## 179	0	0	0	0	0	0	0
## 180	0	0	0	0	0	0	0
## 181	0	0	0	0	0	0	0
## 182	0	0	0	0	0	0	0
## 183	0	0	0	0	0	0	0
## 184	0	0	0	0	0	0	0
## 185	0	0	0	0	0	0	0
## 186	0	0	0	0	0	0	0
## 187	0	0	0	0	0	0	0
## 188	0	0	0	0	0	0	0
## 189	0	0	0	0	0	0	0
## 190	0	0	0	0	0	0	0
## 191	0	0	0	0	0	0	0
## 192	0	0	0	0	0	0	0
## 193	0	0	0	0	0	0	0
## 194	0	0	0	0	0	0	0
## 195	0	0	0	0	0	0	0
## 196	0	0	0	0	0	0	0
## 197	0	0	0	0	0	0	0
## 198	0	0	0	0	0	0	0
## 199	0	0	0	0	0	0	0

## 200	0	0	0	0	0	0	0
## 201	0	0	0	0	0	0	0
## 202	1	0	0	0	0	0	1
## 203	0	0	0	0	0	0	0
## 204	0	0	0	0	0	0	0
## 205	0	0	0	0	0	0	0
## 206	0	0	0	0	0	0	0
## 207	0	0	0	0	0	0	0
## 208	0	0	0	0	0	0	0
## 209	0	0	0	0	0	0	0
## 210	0	0	0	0	0	0	0
## 211	0	0	0	0	0	0	0
## 212	0	0	0	0	0	0	0
## 213	0	0	0	0	0	0	0
## 214	0	0	0	0	0	0	0
## 215	0	0	0	0	0	0	0
## 216	0	0	1	0	0	0	0
## 217	0	0	0	0	0	0	0
## 218	0	0	0	0	0	0	0
## 219	0	0	0	1	0	0	0
## 220	0	0	0	0	0	0	0
## 221	0	0	0	0	0	0	0
## 222	0	0	0	0	0	0	0
## 223	0	0	0	0	0	0	0
## 224	0	0	0	0	0	0	0
## 225	0	0	0	0	0	0	0
## 226	0	0	0	1	0	0	0
## 227	0	0	0	0	0	0	0
## 228	0	0	0	0	0	0	0
## 229	0	0	0	0	0	0	0
## 230	0	0	0	0	0	0	0
## 231	0	0	0	0	0	0	0

## 232	0	0	0	0	0	0	0
## 233	1	0	0	0	1	0	0
## 234	0	0	0	0	0	0	0
## 235	0	0	0	0	0	0	0
## 236	0	0	0	0	0	0	0
## 237	0	0	0	0	0	0	0
## 238	0	0	0	0	0	0	0
## 239	0	0	0	0	0	0	0
## 240	0	0	0	0	0	1	0
## 241	0	0	0	0	0	0	0
## 242	0	0	0	0	0	0	0
## 243	0	0	0	0	0	0	0
## 244	0	0	0	0	0	0	0
## 245	0	0	0	0	0	0	0
## 246	0	1	0	0	0	0	0
## 247	0	0	0	0	0	0	0
## 248	0	0	0	0	0	0	0
## 249	0	1	0	0	0	0	0
## 250	0	0	0	0	0	0	0
## 251	0	0	0	0	0	0	0
## 252	0	0	0	0	0	0	0
## 253	0	0	0	0	0	0	0
## 254	0	0	0	0	0	0	0
## 255	0	0	0	0	0	0	0
## 256	0	0	0	0	0	0	0
## 257	0	0	0	0	0	0	0
## 258	0	0	0	0	0	0	0
## 259	0	0	0	0	0	0	0
## 260	0	0	0	0	0	0	0
## 261	0	0	0	0	0	0	0
## 262	0	0	0	0	0	0	0
## 263	0	0	1	0	1	0	1

## 264	0	0	0	0	0	0	0
## 265	0	0	0	0	0	0	0
## 266	0	0	0	0	0	0	0
## 267	0	0	0	0	0	0	0
## 268	0	0	0	0	0	0	0
## 269	0	0	0	0	0	0	0
## 270	0	0	0	0	1	0	0
## 271	0	0	0	0	0	0	0
## 272	0	0	0	0	0	0	0
## 273	0	0	0	0	0	0	0
## 274	0	0	0	0	0	0	0
## 275	0	0	0	0	0	0	0
## 276	0	0	0	0	0	0	0
## 277	0	0	0	0	0	0	0
## 278	0	0	0	0	0	0	0
## 279	0	0	0	0	0	0	0
## 280	0	0	0	0	0	0	0
## 281	0	0	0	0	0	0	0
## 282	0	0	0	0	0	0	0
## 283	0	0	0	0	0	0	0
## 284	0	0	0	0	0	0	0
## 285	0	0	0	0	0	0	0
## 286	0	0	0	0	0	0	0
## 287	0	0	0	0	0	0	0
## 288	0	0	0	0	0	0	0
## 289	0	0	0	0	0	0	0
## 290	0	0	0	0	0	0	0
## 291	0	0	0	0	0	0	0
## 292	0	0	0	0	0	0	0
## 293	0	0	0	0	0	0	0
## 294	0	0	0	0	0	0	0
## 295	0	0	0	0	0	0	0

## 296	0	0	0	0	0	0	0
## 297	0	0	0	0	0	1	0
## 298	0	0	0	0	0	0	0
## 299	0	0	0	0	0	0	0
## 300	0	0	0	0	0	0	0
## 301	0	0	0	0	0	0	0
## 302	0	1	0	1	0	0	0
## 303	0	0	0	0	0	0	0
## 304	0	0	0	0	0	0	0
## 305	0	0	0	0	0	0	0
## 306	0	0	0	0	0	0	0
## 307	0	0	0	0	0	0	1
## 308	0	0	0	0	0	0	1
## 309	0	0	0	0	0	0	0
## 310	0	1	0	0	0	0	0
## 311	0	0	0	0	0	0	0
## 312	0	0	0	0	0	0	0
## 313	0	0	0	0	0	0	0
## 314	0	0	0	0	0	0	0
## 315	0	0	0	0	0	0	0
## 316	0	0	0	0	0	0	0
## 317	0	0	0	0	0	0	0
## 318	0	0	0	0	0	0	0
## 319	0	0	0	0	0	0	0
## 320	0	0	1	0	0	0	0
## 321	0	0	0	0	0	0	0
## 322	0	0	0	0	0	0	0
## 323	0	0	0	0	0	0	0
## 324	0	0	0	0	0	0	0
## 325	0	0	0	0	0	0	0
## 326	0	0	0	0	0	0	0
## 327	0	0	0	0	0	0	0

## 328	0	0	0	0	0	0	0
## 329	0	0	0	0	0	0	0
## 330	0	0	1	0	0	0	0
## 331	0	0	0	0	0	0	1
## 332	0	0	0	0	0	1	0
## 333	0	0	0	0	1	0	0
## 334	0	0	0	0	0	0	0
## 335	0	0	0	0	0	0	0
## 336	0	0	0	0	0	0	0
## 337	0	0	0	0	0	1	0
## 338	0	0	0	0	0	0	0
## 339	0	0	0	0	0	0	0
## 340	0	0	0	0	0	0	0
## 341	0	0	0	0	0	0	0
## 342	0	0	0	0	0	0	0
## 343	0	0	0	0	0	0	0
## 344	0	0	0	0	0	0	0
## 345	0	0	0	0	0	0	0
## 346	0	0	0	0	0	0	0
## 347	0	0	1	0	0	0	0
## 348	0	0	0	0	0	0	1
## 349	0	0	1	0	1	0	0
## 350	0	0	0	0	0	0	0
## 351	0	0	0	0	0	0	0
## 352	0	0	0	0	0	0	0
## 353	0	0	0	0	0	0	0
## 354	0	0	0	0	1	1	0
## 355	0	0	0	1	0	0	0
## 356	0	0	0	0	0	0	0
## 357	0	0	0	0	0	1	0
## 358	0	0	0	0	0	0	0
## 359	0	0	0	0	0	0	0

## 360	0	0	0	0	0	0	0
## 361	0	0	0	0	0	0	0
## 362	0	0	0	0	0	0	0
## 363	0	0	0	0	0	0	0
## 364	0	0	0	0	0	0	0
## 365	0	0	0	0	0	0	0
## 366	0	0	0	0	0	0	0
## 367	0	0	0	0	0	0	0
## 368	0	0	1	0	0	0	1
## 369	0	0	0	0	0	0	0
## 370	0	0	0	0	0	0	0
## 371	0	1	0	0	1	0	1
## 372	0	0	0	0	0	0	0
## 373	0	0	0	0	0	0	0
## 374	0	0	0	0	0	0	0
## 375	0	0	0	0	0	0	0
## 376	0	0	0	0	0	0	0
## 377	0	0	0	0	0	0	0
## 378	0	0	0	0	0	0	0
## 379	0	0	0	0	0	0	0
## 380	0	0	0	0	0	0	0
## 381	0	0	0	0	0	0	0
## 382	0	0	0	0	0	0	0
## 383	0	0	0	0	0	0	0
## 384	0	0	0	0	0	0	0
## 385	0	0	0	0	0	0	0
## 386	0	0	0	0	0	0	0
## 387	0	0	0	0	0	0	0
## 388	0	0	0	0	0	0	0
## 389	0	0	0	0	0	0	0
## 390	0	0	0	0	0	0	0
## 391	0	0	0	0	0	0	0


```
## 392      0      0      0      0      0      0      0
## 393      0      0      0      0      0      0      0
## 394      1      0      0      1      0      0      1
## 395      0      0      0      0      0      0      0
## 396      0      0      0      0      0      0      0
## 397      0      0      0      0      0      0      0
## 398      0      0      0      0      0      0      0
## 399      0      0      0      0      0      0      1
## 400      0      0      0      0      0      0      0
## 401      0      0      0      0      0      0      0
## [ reached 'max' / getOption("max.print") -- omitted 106 rows ]
```

```
# only use variances using the corr mat
```

```
non_categorical_brca = cbind(brca_data[1:604], brca_data[1714:1936])
```

```
# use correlation matrix
```

```
cor_mat = cor(non_categorical_brca)
```

```
# returns vector of indices to remove
```

```
cor_list = findCorrelation(cor_mat, cutoff = .7)
```

```
non_categorical_brca = non_categorical_brca[, -c(cor_list)]
```

```
non_categorical_brca
```

```
##      rs_CLEC3A  rs_CPB1  rs_MUCL1  rs_GSTM1  rs_PIP  rs_HMGCS2
## 1  0.8928184  6.5801033  6.6494660  10.5203345  10.3384899  7.9046093
## 2  0.0000000  3.6913108  9.6916668  8.1795215  7.9117233  1.2895984
## 3  3.7481499  4.3752550  11.6443070  10.5173296  5.1149250  9.3833794
## 4  0.0000000  18.2355185  8.9137601  10.5574647  13.3044344  4.3479916
## 5  0.0000000  4.5837237  8.4300285  12.9646066  6.8065174  6.1115697
## 6  0.6028369  1.0266584  6.0855245  7.7737478  11.0807761  5.8463755
## 7  5.6543124  2.8420737  8.4904815  0.0000000  6.8230513  2.7623063
```

## 8	2.3709454	0.4304994	2.7889989	5.4519199	2.5529426	1.6259250
## 9	0.0000000	0.6035967	0.0000000	5.9492338	1.6220870	1.8470749
## 10	0.0000000	8.1872872	0.0000000	0.4930324	0.0000000	0.8598106
## 11	0.0000000	1.8783330	14.6119938	2.5893800	10.2794793	8.6670647
## 12	12.0808128	1.0785415	4.3676646	9.6116141	8.2523286	0.0000000
## 13	0.5474498	3.6482353	7.8245362	6.1528142	0.5474498	0.0000000
## 14	10.2200022	10.1382787	12.0278828	0.7400209	10.5085516	8.7435348
## 15	0.0000000	5.0356195	5.4670708	12.5542905	17.1536420	7.0690340
## 16	0.0000000	12.1852492	9.4787813	9.8415241	15.8856559	3.5377682
## 17	5.2076274	6.3884634	4.8375396	11.8685503	3.7141026	4.3384815
## 18	0.0000000	0.8186052	11.0721101	8.9856094	1.8768803	1.1013139
## 19	4.3764571	4.1622987	11.9703469	10.1852487	12.8571583	7.8396812
## 20	5.2723629	5.5889604	9.1285125	12.6594932	9.3053778	3.0827537
## 21	12.6756974	1.3864799	14.9086522	1.9354975	9.7425031	10.6163301
## 22	0.0000000	0.0000000	0.0000000	11.3883250	0.0000000	0.4976379
## 23	0.0000000	9.2388306	5.4072202	6.9908630	4.4717662	1.5278210
## 24	1.6860298	2.7894997	6.1240965	1.6860298	1.9843706	0.7984238
## 25	4.7263680	0.7179122	6.4228671	5.7077870	10.5928744	0.0000000
## 26	5.3923861	19.3759731	11.5194274	8.5924320	9.6624745	6.1663479
## 27	3.7606255	2.1974880	6.0268819	1.2837440	13.2090082	3.0309716
## 28	7.2546488	4.2659094	7.5636653	7.6614275	8.9707542	5.2118766
## 29	0.0000000	20.1945020	8.0399099	10.9367280	6.8443982	3.8338717
## 30	3.3097728	7.3051206	12.9963889	1.5147535	13.5683126	11.4241200
## 31	5.7718803	9.6617207	0.0000000	12.1855344	4.5391960	0.0000000
## 32	11.7149760	6.6481519	6.5380694	1.4617381	9.4503793	5.6270552
## 33	10.4178372	4.7848965	11.3950903	11.9539592	12.5233014	12.2958481
## 34	0.0000000	4.9435604	6.4252360	0.9074291	11.6528065	9.5842814
## 35	0.0000000	5.8690324	16.3044068	1.0688084	8.6445593	10.7722289
## 36	5.1729875	8.3679673	13.1139177	9.5865251	12.5188026	8.8427677
## 37	0.0000000	15.1482707	6.9404628	10.7571065	5.4750297	4.8570404
## 38	13.5033324	5.8252565	5.2206743	0.8827604	9.3579227	2.5316435
## 39	7.5638735	3.2227737	12.7771142	7.0980879	8.8656999	8.2507674

## 40	1.6995072	3.6134845	1.3816710	0.9733541	0.0000000	0.4017397
## 41	0.0000000	3.5216413	4.6391337	6.2547244	4.8504994	0.0000000
## 42	1.5224073	2.3561156	11.8335768	11.6493811	6.2390314	4.9698182
## 43	2.1911520	1.6911768	8.5848468	0.0000000	9.2911744	2.5617172
## 44	4.0553866	5.8234768	10.6823940	0.9542708	9.9460136	3.9129947
## 45	10.8308322	16.6831784	7.3051479	0.9826560	12.3266193	7.8201011
## 46	2.3253864	6.4320725	6.1428933	1.0663992	7.8571997	5.9857031
## 47	0.3810618	1.3285493	2.2102642	1.6397415	5.0724531	1.7733212
## 48	10.2537331	9.5033843	10.7722814	0.0000000	7.8710988	7.0141187
## 49	15.8929853	6.1792961	3.6310461	1.4374408	13.9118349	6.6327713
## 50	0.9754835	3.0717627	4.3221517	10.3924283	7.6649706	10.8069381
## 51	0.3971458	5.5431061	0.9639180	0.0000000	1.3697736	1.1810389
## 52	0.3399355	9.8661243	5.1074786	11.5438008	12.1084325	10.3750891
## 53	12.9559900	12.8428149	10.6000128	5.5221468	11.5710460	7.4148738
## 54	4.8768312	11.8264243	7.3309169	6.9595267	6.2851155	8.1663996
## 55	15.3516285	19.0190839	5.1410812	11.1597589	12.0463336	14.5525085
## 56	0.0000000	0.4924172	0.0000000	9.5647324	0.0000000	0.0000000
## 57	12.1282514	8.0965375	12.0453631	11.5897223	13.4294201	10.4031252
## 58	0.0000000	6.0379818	9.1456469	10.5029791	10.9341581	6.7024816
## 59	0.0000000	0.6681191	0.3723950	0.6681191	0.0000000	0.0000000
## 60	9.9481510	7.8249167	9.0198798	5.6997265	4.8196784	3.4208057
## 61	6.9607422	2.9440338	5.3093145	7.1457508	7.2446064	8.3583013
## 62	2.1892236	10.2902983	2.2801546	0.3748447	2.4464415	4.6628036
## 63	11.3304874	11.1703653	1.7812338	12.8337673	0.3457370	3.4261037
## 64	13.3230548	14.1103659	5.2877567	7.9685677	11.1307045	5.9880961
## 65	0.0000000	0.6320820	10.1805406	6.2949956	0.0000000	0.0000000
## 66	0.0000000	4.9093411	5.9050692	5.3386241	12.8620936	2.6339659
## 67	9.8738924	8.7823198	15.5289481	9.9929553	12.9149733	11.7425693
## 68	2.4208057	6.2113452	11.8309513	10.3644661	11.2842904	8.1531918
## 69	1.7068620	5.5466723	9.1578504	10.2956400	8.8582571	7.0332237
## 70	0.0000000	6.8198891	5.6317126	6.6766116	6.8110625	5.1893581
## 71	5.2075259	4.3354547	9.0968134	10.1356482	12.2030234	2.7980505

## 72	0.0000000	5.4096625	4.8287382	11.3667355	7.9572460	1.8740887
## 73	0.0000000	1.6136731	0.0000000	1.6136731	1.3477790	0.0000000
## 74	2.1668440	13.1697351	3.4058018	1.6022193	8.9869772	1.1133671
## 75	0.0000000	12.5386470	13.3465467	10.7670152	14.6134670	11.6532929
## 76	13.1499701	2.9621973	4.6526700	1.0923428	9.0126812	3.9743825
## 77	0.0000000	6.4095980	2.7226409	10.6990564	3.7791651	1.0131406
## 78	2.8794705	1.4186757	4.8963590	8.9156634	4.1484135	0.7392433
## 79	0.5997939	6.8764531	3.7410463	10.6349701	1.0221192	0.0000000
## 80	0.0000000	1.5998414	3.8886264	6.6802371	3.9656642	0.0000000
## 81	1.3008266	6.8897595	13.8934506	0.0000000	10.3809482	8.2408920
## 82	0.0000000	5.8474558	7.4080070	0.9245560	6.7104896	6.3061893
## 83	1.0439744	8.6732052	8.7894208	7.1493508	9.5893000	5.6772996
## 84	1.0316775	2.2976023	2.6966616	2.0472592	10.3270483	7.3101792
## 85	0.0000000	0.6353365	0.8717648	0.3523066	5.8781049	4.4242704
## 86	0.0000000	7.6150307	4.3897939	2.6502361	0.5448810	0.0000000
## 87	7.3245064	3.8952735	5.8374337	2.1059127	10.0401304	4.4692348
## 88	1.5787455	0.5818815	1.8007032	7.5414498	3.9912361	0.0000000
## 89	10.9672517	12.9525360	4.7596725	4.8452943	12.3557073	6.8440265
## 90	16.5283731	18.7746067	7.4068742	10.3272935	15.1572006	12.0149085
## 91	0.0000000	8.7938016	8.9494380	6.0104129	7.6515662	8.7938016
## 92	7.3468000	9.6642814	12.3935207	1.8841681	7.9225951	11.7662624
## 93	10.6303349	5.1929082	0.7464848	1.4298570	9.1137057	13.9270460
## 94	1.9505804	3.9379658	10.9012148	1.1017173	9.3095318	10.8803138
## 95	5.3489830	4.3452828	12.4293177	11.2849479	9.5957819	6.0538455
## 96	2.0309716	1.2159270	9.0101280	6.0973538	6.7151782	4.1856842
## 97	10.7433346	12.7695813	4.0999937	4.2661569	9.3917883	6.1123206
## 98	9.2292291	11.4055763	2.9838418	5.6753558	7.6834242	10.0214731
## 99	0.3981314	2.5277710	7.5753093	1.3723392	9.0665071	8.9132823
## 100	0.0000000	10.9849015	5.5298428	0.0000000	14.5023720	1.7893537
## 101	12.1264532	1.2018847	11.8448012	1.2018847	10.2547998	11.0142717
## 102	3.9068906	0.0000000	4.9909549	6.1333991	9.6194864	1.3785116
## 103	0.0000000	2.3661963	2.8019864	9.8145512	13.2659594	1.2008182

##	104	14.7440662	1.5527213	16.9844051	10.4502287	12.6180651	10.9438831
##	105	0.9761436	12.6306008	3.8858769	13.0871720	11.6283510	5.8475761
##	106	8.0872438	11.6092048	1.6725159	9.5230618	6.1687824	7.6171207
##	107	5.4493633	0.4455148	3.6528306	0.7854250	17.8107584	1.2911910
##	108	0.0000000	16.7016759	5.8107618	11.4342086	5.3281543	0.9034240
##	109	2.0420840	6.4351768	9.0661597	1.2243490	6.4051585	9.5615738
##	110	8.8394740	17.0251063	3.0563581	2.5825560	6.5207114	7.9933670
##	111	2.1666512	11.1038602	8.6476869	10.3388467	3.5197306	10.1487314
##	112	3.4590250	8.5873279	5.2347772	10.8415724	4.8943813	3.4590250
##	113	0.0000000	3.8348123	6.5712111	0.8513593	2.7288565	6.4100188
##	114	0.0000000	12.1568387	1.5833747	0.9987732	9.0717434	9.1345929
##	115	0.0000000	1.1382247	13.8916101	1.7664680	7.1140359	0.0000000
##	116	0.0000000	6.7202593	2.0921059	0.0000000	2.9733909	0.0000000
##	117	0.5749250	19.8176679	6.6978739	1.9773166	7.1145388	5.6284820
##	118	10.7564891	0.0000000	14.6246505	6.2231117	14.4355255	8.1206355
##	119	13.1260417	6.2089054	8.2423305	2.6179802	10.6045992	11.5026928
##	120	12.2456132	12.2731047	3.3290949	0.3405053	13.5168723	11.3284887
##	121	0.0000000	9.4746524	8.8383486	10.6516008	7.7654260	5.5750006
##	122	13.6141569	17.7662218	10.3678677	2.2724114	6.2054551	9.8042078
##	123	7.9119917	8.2682280	5.6305540	3.2579309	7.3106900	7.6138130
##	124	12.0582795	0.6890307	17.3390729	2.7025689	16.4954497	13.3556084
##	125	14.3196676	6.0720951	4.2188664	0.4859420	12.3180135	11.2987625
##	126	0.0000000	7.2835820	3.3617403	5.5538827	0.5077185	4.2583455
##	127	10.4579250	11.9901812	7.8939883	0.0000000	8.3091271	3.7106246
##	128	12.1066794	11.2389021	3.8026379	5.9879688	10.3919322	0.8980922
##	129	0.0000000	3.0955869	4.7989422	0.0000000	10.5980612	14.9172485
##	130	0.0000000	0.8701871	14.2034337	6.7632389	15.5093421	3.6542751
##	131	2.3003581	1.0501186	0.4403144	10.7643749	3.5045950	1.2795307
##	132	0.5212518	11.3374339	9.2390018	2.1641426	10.5385408	3.5705965
##	133	6.6143683	7.5476758	12.5240247	2.1806571	7.5170796	5.6232845
##	134	15.4252881	11.7598830	8.0986838	9.5901001	13.9673111	6.3346970
##	135	11.0853482	7.8338243	7.2099387	0.9390008	11.3006689	9.1700590

## 136	0.0000000	7.3789910	7.1065431	10.1547527	5.7088494	5.1199828
## 137	14.6349742	15.3851114	6.8862685	9.3523990	7.6045718	3.3367975
## 138	1.1054769	1.2867038	5.4750297	6.8601459	2.2458607	0.3650206
## 139	6.3792571	4.4152449	8.6565754	0.3775125	4.1000946	7.3495555
## 140	0.8793921	8.1936318	4.8221183	5.9115478	5.2297379	0.5056877
## 141	0.0000000	7.8383108	0.4881036	3.1125333	6.8746076	2.0774481
## 142	10.9518632	11.3150050	5.7455170	2.6392785	11.3287602	7.6242896
## 143	0.0000000	6.4989194	2.9053124	2.0860704	9.6693670	1.8174595
## 144	9.6056706	3.1142671	5.1206588	1.4865599	9.3745220	7.3141862
## 145	0.0000000	1.2876496	0.3654686	1.2876496	1.4486896	0.3654686
## 146	7.9916794	16.4378924	6.2705177	1.2696915	12.4567173	1.5268200
## 147	8.4094249	16.5896563	4.0082359	6.7999434	11.7611169	9.2302931
## 148	0.0000000	0.6782522	0.0000000	0.6782522	3.6328033	0.6782522
## 149	15.9573859	6.8062557	6.3336044	9.8941977	15.9349480	9.9902423
## 150	5.3762313	0.5465611	5.0748394	5.6782776	11.9016081	3.8893275
## 151	1.4712915	6.6837119	10.2043462	11.7514613	13.6164920	10.5888754
## 152	15.5043604	6.3928721	14.3520899	7.0282409	7.2917279	3.0828558
## 153	4.2224027	6.8318025	11.6926475	7.8205619	15.3146456	8.7142833
## 154	3.0594418	7.0137939	4.4418619	0.3994446	7.4071828	3.7484827
## 155	10.9397704	5.8066721	5.5205511	0.8610819	5.3672872	6.2397035
## 156	3.5186358	1.3186928	1.9959548	11.9747409	6.8020032	3.1651241
##	rs_CYP2B7P1	rs_ANKRD30A	rs_PRAME	rs_TAT	rs_SERPINA6	rs_TFAP2B
## 1	8.7548007	9.6811760	9.3632576	2.1463945	1.4402081	11.6758959
## 2	5.6982879	7.8855225	1.8188915	2.4151637	0.0000000	11.5752060
## 3	8.6309132	9.6103101	4.7336743	16.1731768	6.7910248	8.2901368
## 4	7.8362650	9.7323740	9.0692008	2.9742172	2.9742172	3.6666884
## 5	7.7019011	10.7591985	1.3700527	2.7955384	8.4805103	11.4500520
## 6	4.6654837	0.0000000	11.4872438	2.0398403	0.6028369	6.0744626
## 7	2.3901724	4.5933060	8.2095757	8.0757497	0.0000000	6.3090252
## 8	1.4534912	0.0000000	11.8210339	1.6259250	0.0000000	5.7132779
## 9	1.8470749	0.0000000	8.1185212	2.3663642	0.0000000	0.0000000
## 10	10.3208690	10.6930618	1.9455702	1.3948982	1.6026944	9.3649720

## 11	14.1371027	10.7770611	1.4183519	6.4259007	6.9594537	11.7571210
## 12	10.2465768	2.3440047	3.7258829	1.3118518	0.0000000	4.3676646
## 13	0.5474498	0.0000000	1.2537473	1.2537473	0.0000000	0.0000000
## 14	8.9335009	9.7452350	0.0000000	10.5420127	8.5403749	11.2621499
## 15	16.3599095	11.3480676	0.0000000	2.0757722	2.6689133	10.8160843
## 16	10.5686844	9.6682542	9.0915190	0.5474498	10.1198167	9.8136828
## 17	8.2384205	0.0000000	2.1191901	0.5039593	1.1726155	2.5889724
## 18	8.1337988	8.3917188	10.6069698	12.7241253	5.6837217	1.3375969
## 19	6.9398624	9.3954909	1.4431823	11.3854096	8.8580690	11.1253541
## 20	2.4089835	7.0260132	9.3612935	2.6260185	1.7221162	8.5788504
## 21	1.7746711	0.0000000	4.4585657	9.5732134	0.0000000	7.5504351
## 22	0.4976379	0.0000000	9.7825665	0.8668684	0.0000000	0.0000000
## 23	1.7460117	10.4032961	0.0000000	2.7334411	0.0000000	13.3126055
## 24	1.0764907	1.3094673	8.8560875	2.3407901	0.0000000	4.7678031
## 25	2.8331127	10.8591628	0.7179122	14.4313788	0.0000000	12.5486599
## 26	3.8657803	10.0474881	5.6358472	14.9094541	2.7205411	4.7019482
## 27	10.6522368	10.3344657	1.0538064	4.8921190	7.3498199	10.6167559
## 28	1.8019864	11.0427544	3.3390233	4.4685768	0.0000000	13.1084711
## 29	6.8817441	10.9763265	0.0000000	4.6843307	8.3732510	11.2806540
## 30	5.4503238	10.1124030	0.8015726	13.1429530	11.7217886	11.5050894
## 31	7.4806480	11.0050673	3.6915342	8.1145008	8.8821487	3.5021524
## 32	8.7972063	8.6116718	4.4856522	3.2886391	8.2251862	10.2927050
## 33	11.1508640	10.6355350	3.5827005	11.2973539	7.7407529	9.8976746
## 34	3.4685963	8.9699269	0.9074291	6.1684856	2.6447562	10.9349108
## 35	11.9426010	2.9913359	7.9814988	10.1751015	1.3007680	10.3663914
## 36	3.8339628	5.6246010	8.9601731	7.1295159	4.9515552	7.1557199
## 37	13.1667242	5.1296004	9.7333437	1.8411278	4.4933847	6.6189434
## 38	12.6519989	5.7816561	10.8042569	2.6001746	6.1956704	10.9521107
## 39	10.8069075	8.5123189	2.4295624	3.5272455	0.0000000	10.3775819
## 40	3.4952091	4.5132949	7.2195664	1.3816710	0.0000000	7.9980623
## 41	1.2082675	0.0000000	9.9845656	1.9814143	0.0000000	6.8580345
## 42	4.3820032	9.4988121	4.0963546	0.8066128	0.0000000	11.4424557

## 43	2.8563085	0.5318680	4.7231435	2.0429244	0.0000000	2.0429244
## 44	7.8979580	8.9981741	2.5078961	10.3214066	14.0081090	6.1561943
## 45	10.9366412	9.0122709	9.7258407	3.8255007	11.6726654	9.5926587
## 46	10.8949420	8.6280390	0.7903550	11.2623099	1.0663992	11.3644318
## 47	4.9366474	11.7862019	1.3285493	2.1128002	0.6822137	12.6348404
## 48	10.1238034	7.9456814	11.1812022	5.0722087	0.6578229	8.7635301
## 49	11.1432684	10.3540309	0.8907969	3.0709388	13.0418700	10.2779889
## 50	9.7584331	10.7481752	0.4028313	1.8386291	0.4028313	10.2671836
## 51	1.3697736	0.9639180	11.3359301	2.2637255	0.9639180	3.8064375
## 52	10.1664726	8.6061546	0.0000000	7.8220430	5.2752231	3.1651402
## 53	10.6984490	9.2511687	10.3980150	3.3945141	0.0000000	4.9322691
## 54	12.4952983	0.0000000	8.7855051	2.6602669	6.2519198	1.6455172
## 55	11.3906846	9.0593404	1.8810381	11.8810074	14.0994690	6.2617283
## 56	0.0000000	0.0000000	0.8589358	0.4924172	0.0000000	0.8589358
## 57	4.8120361	10.5735304	3.4266405	12.6912501	1.6632535	11.6040228
## 58	9.0468757	10.4075349	1.1898562	8.3871001	0.0000000	11.0589779
## 59	0.0000000	0.0000000	9.4635816	2.3569889	2.3569889	3.0639171
## 60	12.2263448	0.3444877	5.3828574	7.1142598	11.9262105	2.7363451
## 61	6.3621192	12.4807087	0.3832757	2.7618171	0.3832757	11.8094554
## 62	11.4411887	13.1327154	3.0734432	5.2513101	0.0000000	3.0216752
## 63	11.2533670	2.7985897	1.7812338	0.3457370	2.2603870	4.4316831
## 64	9.9576538	10.0862120	10.5814238	1.8000819	8.2706205	9.4609985
## 65	2.2775385	0.8676593	1.2476238	2.1933302	1.7966393	1.6777112
## 66	3.2473351	12.7094156	0.3494785	16.5299742	0.0000000	11.2086865
## 67	4.7197420	8.5657441	1.2229282	11.4048614	5.8422472	9.8216720
## 68	5.6300559	9.3895102	2.3344825	7.3547334	5.9167346	8.6741124
## 69	8.4141643	11.1578149	1.9795864	7.2418621	6.3785307	10.3999087
## 70	9.8097797	9.6307502	3.1009776	2.9157886	4.1604927	0.0000000
## 71	10.8558244	11.4184932	1.4669664	4.4121786	2.7035216	6.8150784
## 72	7.9857008	8.1201222	11.6403196	2.3754287	0.8168864	8.4122739
## 73	1.3477790	0.5994130	7.3577130	0.5994130	1.4868173	1.0215508
## 74	9.8222598	6.4005174	1.4569113	1.2953116	6.5058560	10.2224536

## 75	8.6565668	8.6757330	4.6142446	11.9939212	10.3531293	10.1223761
## 76	4.9277400	9.5517173	1.0923428	3.3301998	4.2848324	11.3294141
## 77	6.0257996	4.1946859	1.0131406	2.3429245	1.8261112	4.6100858
## 78	1.4186757	0.0000000	10.1453286	3.5902667	0.0000000	2.4197276
## 79	4.3637038	1.6144272	1.3484591	0.0000000	0.5997939	0.0000000
## 80	1.9424207	0.0000000	10.5781604	1.3922625	1.3922625	2.8264366
## 81	4.5808208	8.0254823	1.9735745	9.6273648	3.5525984	9.4655436
## 82	4.1014148	8.0766644	2.3337958	8.1695898	4.9371702	8.1354405
## 83	5.6393827	11.7184166	2.3166961	6.2249432	4.1476486	11.7842864
## 84	13.1696613	6.4150522	10.6111958	6.9869638	4.5517805	9.6624895
## 85	2.9846987	0.0000000	10.9368853	3.9172312	2.1108643	7.5798296
## 86	8.6563469	10.1479013	0.2980717	11.4987698	0.9395275	10.9636902
## 87	7.6529482	8.5280352	1.4072440	3.8628679	9.7803549	10.3098640
## 88	5.2946722	0.0000000	10.7810066	0.5818815	2.1626612	0.0000000
## 89	14.6251542	9.7549364	1.8010345	2.3621051	14.9591301	4.1001956
## 90	14.8079291	11.3602029	12.6918890	1.5976504	6.5999738	0.5912964
## 91	10.9883132	10.2027152	5.6054736	2.7520635	0.7799741	12.8076607
## 92	8.8651487	6.0615494	1.3191555	4.0224743	0.6763577	6.6436152
## 93	13.4953518	7.6333106	10.1640193	1.0118534	15.4022806	9.6668620
## 94	5.2134717	9.7472744	8.1618212	1.8394759	3.4631908	10.1990571
## 95	13.8887010	11.0953468	2.5776584	2.5093411	3.0318186	11.5990128
## 96	8.7483928	10.2314499	2.0309716	2.0309716	0.0000000	5.0334010
## 97	8.8056513	5.1574076	10.5326123	0.3774014	0.9237957	2.2891262
## 98	11.0099413	7.9261495	1.7734900	4.1363555	2.2633349	8.2283103
## 99	8.7933725	10.4382823	0.7098200	11.6590412	6.8143415	1.9486382
## 100	12.0915477	9.2566816	1.9810854	4.7035936	10.4825228	3.9305481
## 101	10.2869903	0.0000000	2.7488262	12.2134823	3.1378805	12.6259727
## 102	8.5368300	11.5156013	0.0000000	15.4376416	0.0000000	11.5023346
## 103	9.1130318	11.1285886	2.1298105	14.5372381	3.7233183	0.8312287
## 104	11.6037575	11.7004749	0.4716557	8.8408015	0.0000000	10.7050921
## 105	8.0749415	0.3124328	9.4037343	0.5691022	0.5691022	0.3124328
## 106	9.2588258	10.4240821	2.2480186	2.7945198	11.5303056	7.6444195

## 107	14.3004632	9.7852537	2.6841904	3.3795101	3.2755286	10.2767922
## 108	8.2324022	9.5388415	0.6601985	2.4202398	7.0043306	2.3398215
## 109	10.6275543	4.0131496	2.4475263	3.3722835	8.4037654	6.9536564
## 110	9.3077347	8.6754314	9.2482101	0.4143521	0.0000000	7.5049278
## 111	0.7088494	10.0171086	6.6931329	4.7556995	0.0000000	12.9288800
## 112	7.2379566	10.7224993	11.3418556	3.0870724	1.8070251	5.7297458
## 113	8.4840443	0.0000000	4.7187288	0.0000000	0.0000000	6.5215612
## 114	10.2655566	11.6319555	6.3014084	1.2210109	0.9987732	11.1820607
## 115	3.1386998	0.0000000	7.6292378	2.0010095	0.0000000	10.3429749
## 116	12.0512586	10.1589854	11.4500106	1.8523984	3.4747605	11.4650788
## 117	7.1670899	12.2518898	0.5749250	7.2850063	0.5749250	11.9902173
## 118	1.8066953	10.0979540	4.6995738	13.7418818	0.0000000	12.3358494
## 119	6.5468883	9.2682767	4.6818203	7.3308282	8.3416576	11.5996835
## 120	12.5246403	11.3397927	3.5418617	0.3405053	8.8078871	7.0174766
## 121	10.1509291	8.5793665	0.5391340	8.2048856	0.5391340	6.6730207
## 122	10.8315240	9.8977785	9.9150571	6.2523494	6.4434525	11.4439934
## 123	9.2956886	9.7089220	10.5251792	2.4956952	7.1853958	7.8839268
## 124	0.6890307	11.3845045	8.7961246	3.0072134	0.0000000	12.4183562
## 125	9.5260757	9.3491295	3.5865486	12.0032104	2.5374949	11.1098639
## 126	13.5988410	8.3608225	3.3617403	0.5077185	2.8732423	1.1797658
## 127	12.3707633	9.0387544	11.7543535	1.6479591	8.0531325	0.4390380
## 128	10.8476944	9.1925271	2.6936765	2.2456174	1.5922059	11.1749551
## 129	10.6799945	0.0000000	1.1750455	5.7947564	0.0000000	10.7052165
## 130	3.8738526	0.0000000	2.1082233	7.6416623	0.0000000	13.1907604
## 131	1.0501186	0.0000000	9.9517122	2.4012755	0.0000000	1.6513617
## 132	8.9962537	9.9190346	0.5212518	11.4934523	1.6673018	12.3579981
## 133	7.3255591	4.9466841	7.6639565	1.9062364	0.0000000	9.5682351
## 134	8.9536471	10.8310894	1.6348720	3.4094588	2.2958406	8.6411681
## 135	11.7177475	9.7807537	1.9074676	7.7624943	7.9328094	10.5774816
## 136	12.6542023	2.9709457	4.0719943	2.3992531	15.1344467	6.8844038
## 137	9.0308293	7.6877753	10.9038186	5.3668852	5.1563926	5.7230315
## 138	2.0591130	0.3650206	7.6078370	2.6282603	0.3650206	6.3148125

## 139	11.1479122	4.3948845	3.4019171	3.1335142	0.9238718	6.3792571
## 140	8.4419789	4.0834687	10.7858477	5.9115478	1.6318493	0.0000000
## 141	0.8521587	0.4881036	0.4881036	2.2088918	0.8521587	4.2259998
## 142	9.2077757	3.7604765	7.2543200	9.6832348	10.4946394	10.1664103
## 143	3.3753175	0.0000000	10.1647508	1.4871261	0.0000000	7.0276219
## 144	12.5936761	10.9537807	11.0319174	0.0000000	4.0677506	9.7990227
## 145	0.3654686	0.0000000	10.3242490	1.1064153	0.6567252	0.0000000
## 146	8.5468979	8.1069256	1.2696915	6.2617019	1.5268200	3.0918521
## 147	12.7768870	9.9286513	0.7959331	6.3892140	1.6818990	1.0733404
## 148	0.6782522	0.0000000	9.1426833	1.7659590	0.0000000	0.0000000
## 149	14.1986674	7.0607186	0.4564908	5.7206998	1.9918982	0.0000000
## 150	0.0000000	0.5465611	0.0000000	0.5465611	0.0000000	8.7767173
## 151	9.4384906	11.3682462	0.3256167	12.9073458	0.5912007	11.5452949
## 152	12.7670935	4.4156843	2.8534767	4.6243466	0.0000000	0.5010060
## 153	1.1058122	8.3618933	11.8295635	13.3027110	0.0000000	11.0515865
## 154	3.5268576	3.7823247	10.3431042	5.7955981	0.0000000	8.5014531
## 155	11.7770517	10.6281829	11.4241875	3.0614133	1.8958842	2.2660369
## 156	10.1930496	8.7759720	0.0000000	2.6958825	6.3522183	10.6621584
##	rs_CYP4Z1	rs_DHRS2	rs_KCNJ3	rs_MYBPC1	rs_C4orf7	rs_MUC6
## 1	2.6184266	8.3757172	0.8928184	6.4376389	6.0562735	10.2097588
## 2	3.0396824	11.5046951	3.2182387	8.5443784	6.8334063	0.7843365
## 3	2.7766936	16.1894747	4.9876392	2.3287790	2.6138145	0.0000000
## 4	1.3860936	4.7452104	4.3762904	5.4648937	2.4429966	5.4382962
## 5	10.7959921	14.1196321	1.7558276	5.0993162	6.3544539	4.6306268
## 6	9.9909513	1.0266584	0.6028369	5.8068215	17.6800230	1.3538878
## 7	2.7623063	2.2799170	2.1605653	9.7447035	16.7070359	8.1579148
## 8	0.0000000	0.4304994	0.4304994	5.1467285	7.1013171	1.4534912
## 9	5.5459745	5.6541233	0.0000000	6.2930154	2.3663642	0.0000000
## 10	5.0524941	9.0145637	5.9941701	1.7842946	2.0906163	8.5617034
## 11	6.0349662	10.4367934	6.6917491	6.0349662	4.2274099	9.2196097
## 12	4.1439648	13.9269565	8.9633204	6.4610963	3.5992345	2.6297063
## 13	0.0000000	2.3656086	0.0000000	8.2771428	7.5539433	1.7257848

## 14	6.6466768	8.2603550	0.7400209	7.3325978	8.0466046	4.7975163
## 15	6.9066706	10.3781641	10.4700675	4.9040746	3.6770572	2.6689133
## 16	13.6020398	8.6209851	8.0293850	10.3651754	2.8992723	6.7921955
## 17	8.8779945	6.7937633	7.9325750	1.4180280	1.6277469	0.0000000
## 18	2.5762077	12.1396357	5.3607716	3.4498915	3.5937004	4.1225485
## 19	12.8949880	3.2186727	2.4814023	13.6176096	7.9756273	1.5877010
## 20	3.1308815	7.5793702	9.0879441	0.0000000	1.2851063	9.5040328
## 21	11.0796534	6.4949564	7.6724734	5.7186301	0.0000000	3.4711614
## 22	4.9572599	3.9843159	0.0000000	3.9462817	6.2704243	0.4976379
## 23	4.6715764	5.0244970	9.7030206	1.2705887	0.9573203	15.6709209
## 24	3.4073663	3.7221818	0.0000000	2.4423862	12.6956166	1.9843706
## 25	8.6351097	3.3716007	0.0000000	15.8786329	2.2836551	0.4031586
## 26	6.6367899	9.5174985	11.0524239	1.3771237	0.6158871	5.7184137
## 27	6.5803189	11.2486448	1.8117998	6.0813929	5.5737502	1.6563133
## 28	11.7870250	13.6672776	1.8019864	0.5002922	6.7651634	14.0942354
## 29	3.0413481	6.8406093	7.3944901	2.4647728	3.6727534	13.3547411
## 30	8.0137598	8.9308665	2.5433969	11.4223635	6.0688428	11.4835387
## 31	3.8589060	15.4004318	4.0088633	5.7823325	0.4826418	2.4251101
## 32	3.8761928	8.5908168	3.5268576	3.3886993	3.8412989	1.2651368
## 33	14.4532544	8.7217250	3.1933617	8.7144437	7.0908217	10.5518785
## 34	14.4069053	9.4758009	2.5400521	13.0262651	6.6304288	0.5238630
## 35	13.0758752	10.5010663	2.5252420	7.5822022	4.8846028	11.2014033
## 36	9.7445089	3.4939419	1.1911204	8.0401138	10.3262693	3.8766053
## 37	6.4373792	8.1356636	9.9237687	2.9795864	8.5158780	2.0047890
## 38	10.0970998	2.2194009	0.0000000	0.3576083	0.3576083	1.9309644
## 39	6.0039777	6.1358385	9.4546012	2.6472454	6.3214014	2.5425057
## 40	1.9598443	2.1802752	0.0000000	8.9879566	8.7045435	1.5493242
## 41	2.4820996	1.8564679	0.0000000	2.9170498	0.7270927	1.3995539
## 42	10.2977123	0.0000000	1.0865120	0.0000000	6.7413847	2.4579619
## 43	8.2101375	1.4767964	0.0000000	0.0000000	2.7646434	3.5484366
## 44	5.3576611	6.8964438	8.4871989	7.5633084	6.8385283	3.6148158
## 45	4.5211701	13.3953397	6.9821608	2.2940472	6.5801500	2.5559143

## 46	7.4600110	6.2084022	7.0908005	14.6609167	3.8207202	8.7948954
## 47	9.8210837	4.0634598	0.9312292	5.5343293	6.9893434	0.0000000
## 48	9.6763392	5.2359797	3.5108860	3.2729339	9.2477341	2.6979072
## 49	11.5689137	8.5079571	12.7513510	0.3614315	0.6503050	0.6503050
## 50	6.4159412	10.0577481	7.1005877	3.7952994	6.1863698	0.7173858
## 51	2.3558902	4.8201636	0.3971458	4.3677275	9.1364454	1.5366000
## 52	3.8889965	8.5611997	12.5913582	2.6584400	7.4579061	0.0000000
## 53	4.0941347	0.7279640	11.5142387	1.7211539	3.1497959	0.9887029
## 54	5.6426409	8.0989306	9.2729789	2.2934882	0.0000000	5.2970043
## 55	5.9912225	9.1123736	6.3004441	7.5723304	5.4670186	1.3166092
## 56	0.0000000	4.8815863	0.0000000	1.1508846	1.3935809	8.8566471
## 57	14.2456464	3.5651585	1.6632535	6.1585935	8.7167516	6.5182928
## 58	9.6338402	2.0715224	5.6441735	8.1144045	8.2870835	7.0893774
## 59	0.0000000	0.3723950	0.0000000	5.5161318	5.0228693	1.7467427
## 60	1.6588284	9.1807225	3.3074722	0.6223682	1.0557510	8.4809146
## 61	11.8547342	5.2296379	8.4972287	3.1057786	5.6612993	4.7314494
## 62	3.9016489	5.5173954	7.4452707	1.3124328	3.0216752	7.4329369
## 63	2.6816741	11.1424662	10.7025411	0.3457370	1.3922075	1.7812338
## 64	8.7580246	7.2944232	1.1642714	3.5037812	5.8396598	1.8000819
## 65	0.6320820	2.0085586	0.0000000	14.1054998	10.9644229	3.2922811
## 66	2.5688104	8.3573818	0.6304987	4.9986243	6.6429614	15.9076141
## 67	8.9667445	3.9077848	5.6447994	10.3130880	7.7691423	6.9198180
## 68	7.3602062	14.9907992	9.4619304	7.9827181	6.5208465	8.1002113
## 69	7.8003842	3.6752966	5.6990824	6.1306632	11.2556583	4.1318199
## 70	4.9369159	10.5732175	8.3190398	0.0000000	0.4270698	2.4539389
## 71	5.2415656	8.8440325	10.1672616	3.4201455	2.4359219	1.3470420
## 72	5.6474325	6.8627564	0.8168864	4.2971621	6.0959856	1.0992279
## 73	0.5994130	0.5994130	1.4868173	0.5994130	8.5925004	2.1203188
## 74	1.1133671	11.6451457	12.2549851	8.6535151	2.6405284	3.4058018
## 75	10.3104866	5.9967751	2.8138735	11.2549442	9.4970281	9.7519955
## 76	6.9234903	5.3709036	3.6231411	1.3274574	2.7357171	10.9230009
## 77	3.9313616	3.1932356	1.6025044	0.5937840	0.5937840	4.1539998

## 78	2.7418768	2.0043216	0.0000000	10.8810167	3.6297996	8.1972329
## 79	3.2873098	2.0330882	1.0221192	0.0000000	0.0000000	3.3615438
## 80	0.0000000	3.5312692	0.0000000	3.1897139	19.6630942	0.8579014
## 81	5.6795786	2.8763107	2.8763107	6.3401225	3.7221928	5.0949581
## 82	3.1831053	3.4434475	2.7734478	8.2377033	6.9804892	5.0780761
## 83	10.7215690	7.5018332	5.2641723	5.4064108	6.1991128	2.1541295
## 84	9.4735469	11.8805217	7.8681256	1.8523984	2.2976023	8.9865995
## 85	0.8717648	1.9131479	0.3523066	0.0000000	1.8030617	0.0000000
## 86	7.6874807	5.1181562	11.4298861	1.8172549	0.0000000	2.2238550
## 87	5.3454070	14.2457736	1.9906645	1.7282688	1.2153058	8.8077571
## 88	2.8987888	14.9903669	7.8945741	0.0000000	1.8007032	0.0000000
## 89	7.2688928	13.4283716	7.7236521	1.4095267	0.0000000	1.9630672
## 90	4.1471764	3.3390091	13.0410314	0.3257318	0.0000000	0.8154935
## 91	8.0570608	6.9991792	0.0000000	0.4421208	0.7799741	10.1260968
## 92	6.7069297	10.6894902	6.0354766	0.6763577	0.3774014	2.8034130
## 93	7.4072006	13.4698129	10.5291010	3.4809372	0.0000000	3.8293117
## 94	12.3951789	2.3252425	0.6536104	7.7864056	0.3634515	6.2107376
## 95	8.5221892	7.2270238	0.0000000	7.7971797	1.5521803	5.2686028
## 96	3.7384436	12.3157504	0.0000000	0.5270703	0.0000000	2.5485846
## 97	0.3774014	0.0000000	7.3414895	0.6763577	2.6049490	1.4824869
## 98	7.4834482	14.5646153	7.9883274	4.3712731	1.4476850	4.1363555
## 99	9.3040715	6.8305444	9.7524205	0.7098200	1.3723392	6.2174072
## 100	2.5639147	10.3129096	9.6760479	6.8141377	0.0000000	1.7893537
## 101	10.7089302	12.3905104	7.1961713	2.6326405	3.9840789	13.6271640
## 102	6.8504994	12.3197286	0.0000000	0.0000000	0.0000000	9.1308279
## 103	10.4227884	4.5284400	11.8786929	6.6507717	0.0000000	4.1605249
## 104	13.8924878	6.0181735	8.4632334	2.4958998	1.7313570	9.0531485
## 105	2.4202398	13.1135872	11.4669155	6.7039354	0.0000000	2.2101083
## 106	6.3838149	12.5376648	9.6575427	3.3310172	6.2480395	3.3310172
## 107	14.2937733	4.5051796	3.3795101	11.6411517	0.4455148	4.5504390
## 108	1.9641029	4.8508194	7.8212784	1.5998890	0.3675947	2.3398215
## 109	7.0777845	10.4855035	2.7636878	3.6533582	6.7236773	3.4330396

##	110	6.3663869	10.0623118	9.7469902	0.4143521	0.0000000	1.8723560
##	111	5.3566580	5.0183048	2.3573831	5.9071358	2.8130937	12.3744127
##	112	1.9693071	8.9144336	7.5643362	4.9144497	2.4807563	4.5795121
##	113	6.6192076	6.5024945	3.3572846	0.0000000	3.1109812	7.5009351
##	114	12.0215834	5.3434327	5.5212110	0.7360420	3.2708578	5.9362351
##	115	7.3970859	8.8985836	0.0000000	3.3231395	3.0368022	2.8085086
##	116	8.5508272	3.7088163	0.9848445	0.0000000	0.0000000	5.9849721
##	117	10.0607968	6.5091527	4.4788036	1.5648171	3.8543847	3.4318770
##	118	10.0880532	12.0326078	9.1580254	2.8572047	5.0103547	6.9547558
##	119	9.6785132	7.0908915	9.6651824	9.9342998	2.3536338	9.0488094
##	120	6.2389301	4.8946383	8.1735752	1.3768460	0.3405053	0.0000000
##	121	2.3442320	12.3491661	11.1497192	3.6758949	2.5811343	4.8848665
##	122	7.3108945	13.9371356	8.8950742	5.7810160	0.7626465	8.9087304
##	123	6.0667393	10.7615405	6.8570877	4.1804741	0.0000000	2.4956952
##	124	12.2160357	2.1266425	2.3159140	5.1028219	3.6934981	7.3480403
##	125	10.7629500	7.0129463	1.6792436	1.6792436	2.3233124	0.2632748
##	126	1.9828385	7.3817186	12.2396518	2.8732423	2.8732423	4.3205785
##	127	3.2533237	14.3446514	11.1261855	0.0000000	1.2765562	1.4742024
##	128	4.7805358	7.2216335	9.8708278	0.3650206	0.0000000	3.4313154
##	129	13.0250023	13.7413278	7.6146289	2.3766516	0.0000000	0.0000000
##	130	8.7901360	13.3814608	0.0000000	12.4141843	2.3616280	4.7368700
##	131	0.4403144	8.2240084	10.4556184	0.7771988	0.0000000	0.7771988
##	132	8.8282177	7.1004710	3.5167590	8.1690561	9.1367392	10.4280261
##	133	7.8423761	9.4821495	5.1517979	1.5671073	8.7260744	2.3004752
##	134	8.4730522	9.6561308	4.5209376	0.9278206	4.7316069	6.5304812
##	135	11.0347387	3.7585590	7.4979436	5.6236123	6.0734047	2.3144935
##	136	6.4768968	8.9102521	11.5255139	2.7132339	6.5642227	1.6497074
##	137	3.5240888	7.2993234	8.4253716	7.1401242	3.9732347	10.5667736
##	138	8.3259633	1.7239953	0.3650206	4.7656461	1.2867038	5.0300226
##	139	6.6566093	8.8230102	0.6763577	2.3748726	2.1981169	5.0703077
##	140	1.8151245	7.3565691	10.8190818	0.8793921	0.0000000	12.8986355
##	141	1.1425441	5.6815083	0.4881036	4.9631597	10.9522126	0.0000000

## 142	8.9545537	10.8133656	8.7512766	4.4769908	2.9952312	3.6037984
## 143	1.0579701	10.7954024	0.7834986	0.0000000	2.9053124	1.0579701
## 144	6.6194013	4.1060049	0.0000000	0.0000000	0.0000000	8.3970829
## 145	0.0000000	1.7251304	0.3654686	10.1215347	8.4118461	3.1813411
## 146	6.7581392	11.3896485	5.7837762	6.1609807	0.0000000	4.1645610
## 147	2.4374941	3.8330014	9.5430469	0.4521737	1.6818990	2.9308509
## 148	0.0000000	1.4857875	2.0004327	13.9411477	6.7923856	6.7447329
## 149	13.9781048	5.7206998	7.5704326	1.3154503	0.0000000	4.2089308
## 150	4.9077992	11.4324282	0.0000000	4.6674778	0.0000000	0.9420077
## 151	11.9330312	9.6896334	4.6616755	6.4612895	4.8507994	4.8380845
## 152	5.0964685	14.1439633	0.5010060	0.0000000	0.0000000	13.8392228
## 153	2.6728553	13.5824679	8.9776248	3.3529703	0.4689482	12.0624308
## 154	1.5429514	2.6096841	0.7119354	9.9496499	4.9081932	5.4822094
## 155	1.8958842	7.2990605	4.5599873	0.0000000	0.0000000	6.3156061
## 156	9.6784785	3.3170725	1.3186928	5.0608515	0.0000000	0.0000000
##	rs_SLC30A8	rs_VSTM2A	rs_COL2A1	rs_CALML5	rs_GP2	rs_GSTT1
## 1	8.7901337	7.2653412	7.1316636	5.1750894	10.4901429	0.5144000
## 2	0.7843365	0.0000000	3.8800782	4.5026616	7.7075241	9.3362381
## 3	3.8972695	3.0224921	11.6484227	9.8595803	4.0324095	3.9322596
## 4	1.7742494	0.0000000	5.5038957	6.6061402	7.3068583	10.2633142
## 5	2.3109217	3.3935123	3.4983913	6.3474513	7.7317867	9.0931968
## 6	1.0266584	0.0000000	3.2953410	11.3891025	0.6028369	0.6028369
## 7	0.4706150	1.5500634	3.7789024	6.3229917	3.3030501	8.3543067
## 8	2.8598106	0.0000000	10.5090977	11.7072643	1.9191112	9.2030257
## 9	0.0000000	0.0000000	4.7536794	7.7345443	0.0000000	0.0000000
## 10	6.0484629	3.8945753	12.4557440	0.4930324	4.2730459	9.4912118
## 11	8.6777119	0.0000000	3.0046452	6.9787162	4.1479579	6.3627872
## 12	3.4604018	0.0000000	2.9395275	3.5992345	5.1485274	6.5776479
## 13	0.0000000	0.5474498	5.1543766	12.6126181	0.0000000	6.8966267
## 14	3.5513807	7.5761623	5.6417657	4.4884957	3.9768493	10.1434174
## 15	8.2478914	0.0000000	4.4878786	7.4746364	8.1072982	10.1531095
## 16	10.3381718	11.6520461	3.0675527	4.7710193	9.9288091	10.3288846

## 17	11.7413233	12.5579195	11.5564436	4.0777813	6.4992862	9.3411303
## 18	5.8552896	1.6144272	12.2622172	2.0195596	4.6248729	9.6510126
## 19	2.0537369	0.3634515	4.4157181	11.8022813	5.9549012	0.0000000
## 20	4.3806186	11.8005807	1.4459385	12.4615603	11.0964073	7.8761590
## 21	5.3272706	0.0000000	3.1813888	4.3196757	7.3184217	9.3629329
## 22	0.4976379	0.0000000	0.4976379	6.9701887	0.0000000	8.8423192
## 23	7.5968152	0.0000000	2.6274901	8.2821627	4.2033578	10.5263115
## 24	0.4537546	0.0000000	6.1839986	8.2253583	0.7984238	8.7609594
## 25	2.0786781	1.0409625	1.8397178	10.4226897	8.1825796	0.4031586
## 26	7.3940613	8.4328074	4.3901518	5.1325604	8.4404016	8.4601688
## 27	3.0309716	6.0138888	9.6608245	6.9078737	7.8953481	10.1242975
## 28	9.0896735	0.0000000	9.0786555	3.9549221	7.2970942	9.9121214
## 29	2.8735179	0.3800645	2.0048968	2.0048968	11.4706465	9.4264623
## 30	0.8015726	0.4557546	7.0255150	4.7351918	7.2498501	0.4557546
## 31	4.1446909	1.6496614	8.2505902	4.0440356	6.1563905	8.1811900
## 32	8.5829176	1.3667558	1.0374525	8.2799569	9.4489313	6.7644643
## 33	10.1501496	1.0445340	3.9230826	6.5241562	9.6498631	9.2313911
## 34	7.8092376	11.2539913	2.6447562	3.2201287	8.1037106	10.9196657
## 35	14.1216147	6.4613436	0.7922723	11.6450324	5.1304573	10.2866490
## 36	1.1911204	0.0000000	3.3800090	9.6214178	8.2573600	9.2720703
## 37	7.2691276	0.5165195	14.7210242	5.1818658	7.3127505	10.0690217
## 38	2.7281817	0.0000000	1.2669364	2.6001746	5.9221384	6.7345863
## 39	9.2670093	0.0000000	1.2117598	13.1703400	0.9088129	8.9228951
## 40	1.6995072	0.7157177	4.8060662	11.4017116	0.7157177	8.7156062
## 41	0.0000000	0.0000000	6.9373114	14.5628601	3.3925647	9.2583076
## 42	1.6991962	0.0000000	0.8066128	13.2150195	2.8810968	8.8116011
## 43	2.4484517	0.0000000	2.1911520	9.3396307	0.9196833	9.7823848
## 44	11.2231339	0.3923174	4.2574934	5.4430529	5.0252503	8.9323273
## 45	5.0322243	8.7859912	7.3576074	5.0322243	6.7533023	10.0879397
## 46	0.0000000	1.2980131	5.7420386	10.3298411	9.6925796	9.4433091
## 47	1.1435240	0.0000000	1.4925198	1.6397415	8.7860977	9.7967733
## 48	2.0626744	6.5042756	7.1257565	12.6958023	8.1354789	9.3400094

## 49	2.6147805	0.0000000	1.0969365	1.8329305	8.3806312	9.6121422
## 50	6.0804871	8.1375650	2.3749282	10.2098775	3.9233204	9.3648921
## 51	0.0000000	0.3971458	8.1734573	3.2076274	0.0000000	9.1069037
## 52	7.4535398	5.7367320	4.3120044	6.6452506	3.6655861	5.8806145
## 53	12.4425666	6.2721259	0.0000000	9.9223155	6.7589041	8.2535346
## 54	9.0224355	11.4172947	12.2937463	8.0123798	9.7136779	0.0000000
## 55	10.5727601	0.9218171	0.3765127	3.9916443	12.9001896	10.1901494
## 56	0.0000000	0.0000000	13.8288751	12.6614717	0.0000000	8.9953635
## 57	14.9309158	2.4251101	5.4707191	10.5081212	10.0592651	8.7352121
## 58	7.3803502	0.0000000	6.5431231	6.1200056	6.3862246	0.0000000
## 59	0.3723950	0.0000000	12.5508697	12.2302756	0.0000000	8.5035789
## 60	10.3224715	0.3444877	2.6145685	6.1953673	7.8771565	8.7155907
## 61	10.9487325	11.7500189	3.1559111	1.6463470	6.9250547	8.0374717
## 62	10.5201736	14.0369579	14.1845267	2.9122091	5.7968936	0.3748447
## 63	8.7856888	0.0000000	12.6463016	2.5544415	1.2351143	9.1492042
## 64	10.8584520	2.5674481	2.8491987	2.3610384	6.3664271	9.2808121
## 65	1.4056657	0.3503841	1.0701145	2.1039004	0.0000000	7.5935906
## 66	0.6304987	4.1107641	3.2473351	2.8685880	0.3494785	9.0660292
## 67	5.0453250	0.0000000	6.2038883	4.5034187	1.8751510	9.3650954
## 68	4.2510373	2.2293110	11.1481575	1.6678467	7.1232720	9.7675768
## 69	5.4302719	7.8063073	3.8666113	8.1021185	5.5605835	8.0226896
## 70	2.6248495	1.0240359	8.0955837	7.1206288	7.8244955	9.2465029
## 71	1.3470420	12.7432544	6.5284166	8.6838150	3.9998016	9.4691607
## 72	0.4655044	0.4655044	8.2082095	4.6211786	9.4413086	10.4911608
## 73	0.5994130	1.1938979	10.0346629	0.3305584	0.3305584	7.3644928
## 74	4.5836695	0.3683772	8.7667111	4.3567143	8.1949060	9.4760764
## 75	0.7092024	0.0000000	8.2320971	9.2982262	9.3489740	0.9652487
## 76	3.5319428	9.0102125	2.4669403	1.7068178	9.2899373	10.3022145
## 77	1.0131406	0.0000000	0.5937840	1.0131406	2.3429245	10.8849492
## 78	0.4165155	0.0000000	13.1182212	12.8304089	0.4165155	8.9086478
## 79	0.0000000	0.0000000	0.0000000	1.0221192	0.0000000	9.1166655
## 80	1.1496496	0.0000000	9.8369619	4.0027025	2.7413591	5.9807314

## 81	0.0000000	0.9824369	5.8107644	3.7221928	2.4305797	11.1317724
## 82	0.5350576	0.0000000	6.5329886	5.6292313	0.0000000	9.8180411
## 83	7.0254785	0.0000000	3.4708752	3.5709486	8.6909213	9.5484557
## 84	9.9116032	0.8345494	3.0089171	12.2237741	7.4373260	1.2050797
## 85	3.6887287	0.0000000	1.4113178	6.9162222	0.3523066	6.3239969
## 86	8.0703002	0.5448810	14.8660316	0.5448810	8.4747195	10.0585289
## 87	3.7610512	0.7319652	7.1475092	6.3334792	7.8924882	7.0821597
## 88	5.6201993	0.5818815	1.5787455	8.6017017	8.5980071	9.1057134
## 89	4.9261228	0.0000000	4.9456452	1.6185206	7.7179882	9.8550982
## 90	6.1272206	0.3257318	1.4715517	5.3583541	7.3042509	9.8462913
## 91	4.6451771	8.9575037	3.6816966	6.7237906	7.9460740	6.0023672
## 92	4.8029118	10.0804797	4.3531680	12.1378499	8.5361124	8.4136787
## 93	4.2954439	6.2380932	1.0118534	5.4038948	3.5659505	8.5445186
## 94	6.4470237	11.2982464	0.8949923	13.3582391	6.3840757	8.3648057
## 95	0.0000000	1.4095810	2.9822726	4.3839531	4.6765044	7.5812262
## 96	4.8905829	1.2159270	3.6899812	3.4197007	2.0309716	8.7305316
## 97	1.1350094	0.0000000	6.6777281	11.1916260	0.9237957	4.0746168
## 98	5.2337155	1.4476850	6.5905077	8.9795710	10.1707929	7.4778659
## 99	7.4471857	1.7435150	3.4398093	11.6694944	2.8788823	0.0000000
## 100	1.7893537	4.7798848	5.8206436	3.9763086	11.6579324	0.0000000
## 101	0.0000000	4.0723717	3.5438918	11.2184388	9.7835943	8.2687160
## 102	0.0000000	5.2917509	4.1538053	3.2326608	6.4296160	9.1121788
## 103	1.6219464	0.0000000	1.4947740	7.2955752	6.0026328	10.3248088
## 104	14.6345502	4.0359494	1.7313570	13.0097826	3.7826497	9.9662505
## 105	3.2787431	6.5020139	0.5691022	2.8653250	3.9773074	8.6156168
## 106	6.9630082	7.7549997	11.5625638	4.2808747	6.3287862	8.6632258
## 107	1.6648924	0.0000000	1.0603241	6.2321196	13.5745406	2.4173260
## 108	4.3328010	2.1291841	4.6652961	10.0777828	9.5229965	9.3152712
## 109	2.7636878	0.0000000	7.9135824	3.2424806	1.2243490	0.0000000
## 110	12.4374681	0.9985566	4.3430311	7.1434944	8.2670329	9.8705646
## 111	9.6925447	2.7014160	5.0600647	11.2244930	8.2220162	9.2095833
## 112	2.9382105	5.0403095	10.3463403	5.5231197	5.0475951	0.8742855

## 113	3.2393828	8.7578023	5.7353001	9.1134164	8.5065496	8.8397622
## 114	7.9633915	7.2649933	1.9981955	2.1136338	11.7239583	2.1136338
## 115	2.0010095	0.0000000	0.0000000	12.3738299	1.1382247	7.7428066
## 116	8.8522545	0.0000000	6.4183586	6.8605768	8.7465976	8.7222768
## 117	3.3648946	2.1849467	14.9833583	1.5648171	14.1598761	9.1822121
## 118	8.1303157	0.0000000	1.8066953	7.5187397	8.9713622	10.9692050
## 119	8.3340194	10.4431027	3.0346383	6.1050306	8.6442850	9.9642952
## 120	9.9896840	0.0000000	0.6156988	3.5085047	12.9680748	10.5252444
## 121	7.6819397	8.1172026	12.8099454	6.6857762	10.5880468	0.0000000
## 122	8.9751378	8.6652215	0.7626465	6.2849379	8.0480236	0.4311415
## 123	7.2712342	9.3795378	7.4078889	3.6347559	6.4898159	10.2596829
## 124	3.5872810	3.1222420	0.0000000	13.5456324	8.7070008	8.6498791
## 125	12.9953781	4.2612149	2.4868431	4.4479097	9.0466695	8.7248770
## 126	3.9784977	5.4323147	14.4953957	0.0000000	9.6512695	9.4879861
## 127	12.0219893	2.1879261	7.9175231	3.2533237	5.1640501	9.7746224
## 128	14.3897456	0.3650206	4.0483408	10.4518707	11.1655839	5.9615539
## 129	3.5214654	0.0000000	6.4283468	10.4493668	9.1345934	9.0975260
## 130	1.6181447	0.0000000	0.0000000	6.3815620	9.7086792	10.5261690
## 131	0.0000000	0.0000000	1.0501186	3.2029505	0.0000000	10.6992863
## 132	1.4547023	3.1649954	6.1688225	5.9827677	5.9115334	10.2004052
## 133	2.1806571	0.0000000	2.3004752	12.6253958	5.1195720	9.1193637
## 134	10.5641585	10.0754023	4.1574157	7.3230250	8.9615029	9.3094279
## 135	7.5786059	0.0000000	3.3891813	5.0882010	8.3116244	9.3259409
## 136	10.0922775	3.6488566	2.9709457	4.1082150	7.7058473	9.1484293
## 137	4.2896427	11.4419510	7.6302955	5.5067733	8.5666299	9.0680105
## 138	0.0000000	0.0000000	1.4476321	6.4444799	0.0000000	0.0000000
## 139	6.6736144	0.0000000	2.6050439	4.0747195	5.7370485	7.7983584
## 140	7.0210721	9.2045834	1.6318493	2.9480401	5.8180222	9.4028044
## 141	1.5911528	0.0000000	12.1137941	2.0774481	1.5911528	10.0937970
## 142	1.4559650	0.4315695	1.7827021	9.0572718	7.0793898	10.5267055
## 143	0.0000000	0.0000000	6.3151006	8.8057055	0.0000000	10.5429724
## 144	1.8888114	0.0000000	1.2337040	13.1219737	5.4823159	3.4478569

## 145	0.3654686	0.0000000	11.5545497	9.9259250	0.0000000	0.0000000
## 146	10.9960443	3.2914857	9.4404357	6.5922253	9.1299686	9.5781943
## 147	6.6910888	1.8982084	2.8594727	3.8697925	10.5327897	0.0000000
## 148	3.1380117	1.4857875	5.6673216	11.1136679	0.0000000	0.0000000
## 149	11.6539038	0.0000000	7.8541821	7.7901243	6.4487308	0.0000000
## 150	0.0000000	0.0000000	11.7275558	5.4234504	0.0000000	9.2943910
## 151	2.7161569	0.3256167	11.6352152	3.8245948	10.0660047	10.3785673
## 152	2.3650206	0.0000000	9.7270930	7.7717833	4.7631566	0.0000000
## 153	2.2751859	2.1793518	3.0526246	7.1295942	10.0417912	9.9739912
## 154	10.9676549	0.3994446	13.8328337	9.1876915	0.7119354	0.0000000
## 155	0.8610819	6.9538053	11.3405119	2.6254575	6.8007860	6.2857222
## 156	1.3186928	0.0000000	1.8035164	1.3186928	4.1241958	9.5692006
##	rs_FABP7	rs_CRABP1	rs_KLK11	rs_CST9	rs_CST1	rs_PIGR
## 1	2.7157177	4.6183679	11.6222060	1.8360857	10.4610609	7.1094556
## 2	4.9863199	5.6367870	1.4884122	0.4448791	7.8039374	7.0882169
## 3	3.7868995	2.3287790	2.6975514	3.1179942	9.1139671	6.0226918
## 4	2.0797706	3.1808798	1.1442422	2.8981890	6.0868092	7.1186587
## 5	0.4815056	4.3514587	2.6207272	7.0372581	9.9036026	7.2132024
## 6	7.9863734	10.1724379	6.7318688	0.0000000	8.6875755	10.2894641
## 7	11.4958568	5.8598876	4.7462483	0.0000000	3.7377841	10.6340141
## 8	9.7848988	14.7092297	2.9273276	0.0000000	7.4558467	2.3709454
## 9	10.1427418	12.4853796	0.0000000	0.0000000	6.4383827	2.5048492
## 10	0.8598106	0.8598106	0.0000000	10.6006968	11.2954980	1.7842946
## 11	3.9118354	3.9745844	0.4164074	0.4164074	11.0234973	7.7489871
## 12	4.3149068	5.4223306	1.6888070	0.0000000	1.9873936	7.7792630
## 13	4.5895238	11.2190665	7.6332198	0.0000000	5.7691476	2.4893374
## 14	5.7889336	6.8192888	2.5088596	4.6512641	7.1809226	8.1625061
## 15	1.0509544	0.7778720	0.7778720	0.0000000	7.9680740	8.8470285
## 16	0.0000000	6.7055453	9.5506731	2.4892089	8.3824857	9.6707069
## 17	1.6277469	1.8108132	6.3446084	2.3731192	7.7115775	5.5018977
## 18	0.4665488	7.6239407	0.0000000	0.0000000	7.0272282	2.4807563
## 19	5.8584535	5.7474143	3.6058025	0.0000000	9.9526717	9.5065000

## 20	1.2851063	5.3455702	0.3644604	0.3644604	7.6262931	3.4291473
## 21	7.1192368	6.0959223	1.1445685	0.4891319	6.3947182	9.8835567
## 22	10.7898250	8.3898748	0.4976379	0.0000000	2.1026245	2.6677105
## 23	11.2973937	3.6748674	0.5566992	0.0000000	2.8321204	3.0113167
## 24	7.9493318	6.7475190	1.8428984	0.0000000	2.5372961	7.9664893
## 25	4.2024882	4.4566485	1.7035437	0.0000000	8.5971762	5.5178111
## 26	2.3950628	1.2210728	1.7639214	7.6921552	2.5990083	6.2085114
## 27	4.1584986	5.9536284	8.5879189	4.9434713	7.7538813	10.5350648
## 28	0.0000000	5.5925736	0.5002922	0.0000000	6.1253267	3.2157097
## 29	3.7393729	10.1663771	4.7823771	8.2714019	0.3800645	3.5666812
## 30	5.8815398	5.7876362	7.1248616	6.2835811	5.7876362	10.3232890
## 31	0.0000000	2.0630542	6.4855073	11.9844883	7.0586574	5.0695819
## 32	1.2651368	2.2808376	2.9386057	6.8503244	9.7069049	6.6226947
## 33	5.8762714	5.1295468	9.3180124	7.5871092	7.1351223	10.0753873
## 34	4.6230884	7.0765538	9.5340456	6.7349345	10.4361007	6.8920971
## 35	12.3172576	1.0688084	12.1480013	0.0000000	7.9668036	13.3153566
## 36	9.8751066	11.7761710	6.4496918	2.6166165	7.0244083	12.4593362
## 37	7.6084064	6.2460869	1.1962293	8.2684774	8.8491886	8.4516954
## 38	0.0000000	1.2669364	0.3576083	0.0000000	8.8926551	10.3038691
## 39	2.0254187	0.9088129	7.6608915	5.4448161	11.0537591	8.8383048
## 40	5.5121352	10.2715417	7.9369859	0.0000000	4.8388106	3.5751187
## 41	11.2565398	8.9079374	7.3818864	0.4088205	0.4088205	3.6775421
## 42	0.0000000	7.6724176	0.0000000	0.0000000	3.6130719	5.1015576
## 43	4.3019461	13.7700229	1.2249664	0.0000000	7.1931912	5.4962482
## 44	5.5138381	4.1086332	2.7280076	4.4758437	1.9308130	7.2265239
## 45	5.1948396	3.4277268	0.5733745	8.5062715	5.0535806	8.1098630
## 46	2.9193592	9.5411940	2.7730891	0.7903550	10.9542254	9.0573883
## 47	0.0000000	2.5451776	6.4604428	2.6873743	9.1584464	3.9551547
## 48	7.1167764	7.7368781	4.4461702	0.0000000	1.8479168	13.0289996
## 49	0.0000000	0.0000000	0.0000000	9.7686779	9.9523764	4.9494182
## 50	2.8956322	4.5173954	2.1836453	5.9662136	7.2606580	7.1828412
## 51	4.7368971	8.4135742	9.2749707	0.0000000	5.0305877	7.1039728

## 52	4.1048566	0.6147570	0.3399355	0.6147570	9.6893946	7.5650137
## 53	3.0389629	5.9005456	0.7279640	0.0000000	6.9278337	9.2925218
## 54	0.0000000	7.2356486	3.1383066	5.9380599	1.2744704	10.3628550
## 55	3.3565242	2.5286713	2.7997090	4.2843216	4.8293371	8.0311327
## 56	5.8365099	5.4366549	4.7784346	0.0000000	1.6013162	2.7432349
## 57	6.4779379	8.3135429	6.6996890	1.0590783	8.7654645	12.9552065
## 58	7.0550362	6.4615711	4.7859533	5.8262434	11.3196593	10.5077483
## 59	6.5002826	9.3806022	7.5364431	0.0000000	4.3109145	0.3723950
## 60	1.2317396	5.8954505	0.6223682	2.9528181	5.2044068	4.8058341
## 61	2.0155689	4.0726118	4.9602383	13.0413905	9.1878744	6.0604452
## 62	0.6721085	1.3124328	0.3748447	4.6962164	0.3748447	5.9008523
## 63	0.3457370	7.8796666	0.0000000	10.0960483	10.2907581	5.5220840
## 64	2.7639002	4.5190386	0.0000000	5.2092584	8.2531195	7.5953492
## 65	2.2775385	4.4156370	5.5175245	0.0000000	10.0117958	3.2089698
## 66	1.4029404	12.2745171	0.0000000	5.6997848	3.1615491	4.1692917
## 67	6.7953695	7.3701904	8.2786339	4.9858237	1.2229282	10.3085417
## 68	4.5092905	4.9183290	4.4489274	10.5519014	0.6978628	5.8247220
## 69	7.2397026	5.7963460	11.4623245	0.7478600	1.7068620	10.3005701
## 70	0.0000000	2.1523457	0.0000000	3.7811708	3.3158850	2.4539389
## 71	0.0000000	2.1071187	8.4426711	0.2875905	6.2435244	4.5407774
## 72	4.4305261	2.9018227	2.3754287	2.5730109	8.6537469	11.6012436
## 73	0.0000000	6.5815335	4.2303414	0.3305584	6.8303491	3.5938199
## 74	0.0000000	0.3683772	0.3683772	13.1926406	11.4480662	6.3551044
## 75	7.8327894	9.3615609	8.0120261	4.8705620	0.3978030	12.0809603
## 76	3.0955700	5.1586723	3.7898753	3.4840866	6.5049350	4.4181427
## 77	4.2727623	4.5486401	4.2727623	0.0000000	1.0131406	8.2858636
## 78	7.1988575	11.5399212	10.0123365	0.0000000	10.3804552	2.5072619
## 79	0.0000000	1.3484591	3.9953488	0.0000000	0.0000000	3.2873098
## 80	3.4796703	8.4425608	2.8264366	0.0000000	7.1616388	3.1240138
## 81	5.3917505	5.8479017	6.0526419	3.1385524	0.0000000	8.1693448
## 82	6.8685250	7.7763067	8.2204311	1.4834160	0.0000000	13.0921753
## 83	3.7805411	3.9878575	1.2186572	5.6772996	5.8332114	7.8242822

## 84	1.0316775	2.3722556	0.8345494	4.7184383	9.6712939	5.0719814
## 85	1.9131479	11.4557102	4.6946741	0.0000000	3.6574457	1.2528395
## 86	0.0000000	0.0000000	0.0000000	14.1038813	0.0000000	0.5448810
## 87	0.7319652	6.3096346	1.2153058	8.0210210	8.5215628	1.8654438
## 88	0.0000000	0.0000000	0.0000000	10.8219652	7.8424427	1.8007032
## 89	0.4998841	3.2774790	8.7159795	8.9871804	9.5864294	13.2866315
## 90	0.0000000	0.0000000	0.0000000	5.1269481	7.7920224	5.7397104
## 91	0.4421208	8.1780867	1.0535979	0.4421208	7.5938288	6.4963233
## 92	0.0000000	8.3971372	3.5193532	3.1334156	7.2982871	7.3146403
## 93	0.4209405	0.4209405	0.4209405	10.3342307	7.4553461	2.4342679
## 94	1.2825584	3.0789343	11.5386378	1.5877010	5.2134717	5.5760656
## 95	3.5567482	0.3517414	11.0200485	0.0000000	8.0837133	8.5795385
## 96	1.4667054	1.2159270	1.2159270	0.0000000	10.9878077	2.9287493
## 97	5.1082233	10.9364407	2.4556494	0.3774014	3.4018216	4.5501742
## 98	0.0000000	1.2522945	1.6197886	5.0044475	8.9262580	5.0044475
## 99	0.0000000	3.9942176	0.0000000	6.2658757	10.2033979	0.9659874
## 100	1.5681294	0.0000000	3.8344483	10.0361057	5.8080478	8.7528459
## 101	2.1312602	12.2701088	5.6256942	6.1906465	2.8035990	9.5844176
## 102	0.0000000	11.9883296	0.0000000	6.2667865	2.5360529	1.5849625
## 103	0.0000000	0.8312287	1.2008182	6.8555562	4.8476061	4.6968340
## 104	5.4314257	0.4716557	0.0000000	0.0000000	10.4558012	12.2143311
## 105	0.0000000	0.3124328	0.0000000	10.1574674	10.6887916	2.8653250
## 106	4.8170911	2.4263453	1.5236121	8.1200263	9.9637312	6.6448686
## 107	0.4455148	0.7854250	1.0603241	9.5478726	4.5504390	7.1690882
## 108	1.1114988	8.2476332	0.9034240	8.2870331	6.1833297	4.8362372
## 109	5.4517551	5.1048105	4.9260896	7.4709565	0.0000000	8.2176781
## 110	0.0000000	4.4566813	0.0000000	2.1132671	7.7113765	6.0269085
## 111	3.3049782	10.2044904	0.0000000	0.0000000	8.6601860	1.8229748
## 112	2.3688801	3.3453680	2.9382105	9.9858658	6.8627068	8.3864907
## 113	0.0000000	5.6910707	1.7708290	6.0028893	7.0452857	9.8413522
## 114	0.7360420	6.6221133	6.0200021	2.1136338	11.8582972	12.0423337
## 115	5.2568106	6.5373846	4.6793675	0.0000000	6.1306097	1.7664680

## 116	0.0000000	5.3965260	1.9772066	0.7248249	7.5868646	6.1129399
## 117	1.6795139	2.6184266	0.3159140	12.1911819	8.4991774	5.1404392
## 118	3.5383395	5.8224829	2.7271581	0.0000000	8.7714152	7.7030065
## 119	0.0000000	4.0370835	9.0157710	2.6963277	9.1984851	7.5418083
## 120	0.0000000	6.8937651	0.0000000	4.1512662	12.2489305	9.4042979
## 121	4.3879553	5.6155634	2.7845668	5.9475703	4.8848665	8.8553849
## 122	0.0000000	4.3331804	0.7626465	7.0477783	9.0585497	5.0310202
## 123	0.0000000	1.4774701	0.7771988	5.5226804	7.8374059	5.5001041
## 124	6.0751432	2.5601035	0.6890307	0.0000000	4.9822681	15.1760045
## 125	0.8487982	5.3308129	0.0000000	2.6337102	1.0008654	5.7076766
## 126	2.1291181	0.8825257	0.0000000	13.2193535	1.1797658	5.6418263
## 127	0.0000000	0.0000000	0.0000000	3.7106246	13.1577773	9.8150558
## 128	0.6559929	7.8943315	0.0000000	5.0169509	9.1631268	8.5790602
## 129	0.0000000	0.0000000	0.0000000	2.4886692	1.6307316	13.9862968
## 130	11.4418636	3.9140191	7.6771100	0.0000000	8.8313617	6.1821639
## 131	0.0000000	0.0000000	0.0000000	1.0501186	10.2082500	1.9467683
## 132	5.6110838	9.7002373	13.3667453	7.9655552	4.1325193	8.4904181
## 133	3.4350285	5.3313434	5.0528810	0.8360857	8.3800519	7.1372197
## 134	2.6812918	3.0908365	4.0035932	0.0000000	10.7368413	12.6004600
## 135	2.1252874	4.0787208	2.1252874	3.6918691	0.9390008	6.6837484
## 136	2.8043634	2.9709457	0.8914970	8.2963739	9.8978022	6.6949916
## 137	2.7229468	3.9407024	3.3859556	3.8384778	9.4284129	8.0650482
## 138	5.7388840	8.6871023	6.1491028	0.0000000	5.2314247	2.0591130
## 139	0.0000000	1.1350751	10.8517709	1.7623488	10.4036193	5.8157573
## 140	0.0000000	1.1759397	0.0000000	0.8793921	9.5554891	5.3385171
## 141	5.8520813	8.5707176	0.0000000	0.0000000	3.9905283	12.8269249
## 142	0.7633266	9.1309008	3.9350637	3.3804940	2.5561841	7.0868092
## 143	5.8930175	12.2320208	3.0999179	0.0000000	6.8083992	5.6963277
## 144	0.0000000	11.8993109	0.5366498	0.0000000	7.2387276	10.2341279
## 145	8.4215822	7.0834357	4.7518975	0.0000000	0.0000000	3.0368022
## 146	2.7321389	1.2696915	3.7256866	11.4388774	11.7698639	4.7729677
## 147	0.4521737	0.0000000	7.6969446	9.4496868	8.5075318	4.4338208

## 148	7.8844398	6.0405834	1.1378314	0.0000000	8.6465943	5.3006875	
## 149	0.0000000	11.0586302	0.4564908	0.4564908	5.7206998	9.5590453	
## 150	2.0787123	10.6494816	6.1311902	0.0000000	4.7438704	7.1112807	
## 151	4.6177099	3.5087709	4.2843883	4.0397876	6.8289654	7.8063763	
## 152	0.0000000	11.8688003	0.0000000	0.0000000	10.3879043	3.7938959	
## 153	0.8221999	5.0887056	1.5461166	0.0000000	7.9313929	5.3955633	
## 154	12.0275065	12.3551522	11.3250768	0.0000000	3.2162220	9.0846644	
## 155	1.0625362	7.5688621	4.4564908	9.5832532	9.2953010	3.5711671	
## 156	0.9973285	9.5405371	1.9959548	1.9959548	9.9253429	0.0000000	
##	rs_SYT13	rs_OLFM4	rs_HOXB13	rs_LTF	rs_MUC5B	rs_BMPR1B	rs_CEACAM6
## 1	4.1463049	6.1892671	2.5140970	10.219641	9.4319777	8.961093	6.5207617
## 2	3.9491707	5.6262785	0.0000000	11.232154	6.3039451	9.164374	6.6792535
## 3	10.0900863	2.6975514	0.4497462	7.810588	6.8833190	8.187072	8.5430956
## 4	12.6341363	2.2112926	0.0000000	12.975535	12.0105501	14.149194	18.3298913
## 5	7.4733291	4.4850790	3.9319761	8.387990	2.0599090	10.259790	7.3279316
## 6	6.7458800	10.1502213	1.3538878	14.484815	7.3193443	3.633524	8.9231486
## 7	2.1605653	5.7709849	4.4980338	17.796624	10.8243118	6.731774	6.2222617
## 8	5.9344740	1.9191112	9.1252063	7.193312	12.8157639	9.294545	0.4304994
## 9	9.1922235	2.6312207	7.4037236	5.162279	9.7188200	6.497649	1.3553546
## 10	12.1879400	1.1519887	0.0000000	11.238984	2.4545971	13.764188	5.9849197
## 11	10.7057361	7.4174855	0.4164074	9.833959	8.8029493	10.662912	5.9280434
## 12	8.1278654	4.7716638	0.8001648	10.620235	8.1240370	3.072603	5.1485274
## 13	1.2537473	0.9433588	2.0808623	7.392923	13.2657511	6.152814	8.0869997
## 14	7.7736562	6.8780141	0.0000000	11.590011	4.2036945	7.283789	4.4447664
## 15	13.0527876	2.1931409	0.0000000	18.091015	10.5554382	13.977553	10.5475382
## 16	2.7087611	1.2536263	0.0000000	17.336523	3.2880484	6.606541	8.8329118
## 17	5.2870105	3.9273276	6.0582191	7.983508	3.4080868	5.541286	8.4254652
## 18	6.7689320	2.3785394	0.0000000	6.509549	4.5326848	13.607308	9.7750229
## 19	3.9379470	7.1782844	0.0000000	14.573048	5.6601871	5.035822	12.7384763
## 20	8.9429909	2.3287216	0.0000000	8.426905	11.8611693	8.585342	9.6365191
## 21	3.8398085	12.4686847	7.7796983	12.723831	14.3173765	8.541903	7.6260689
## 22	4.6133018	1.6132016	7.7382315	14.635211	9.4339858	7.509530	0.4976379

## 23	14.1144043	0.5566992	0.0000000	5.485121	2.5131622	3.314174	3.5643660
## 24	0.7984238	8.8009627	0.4537546	11.191800	11.2511973	5.288012	3.3562002
## 25	3.9847260	3.6926169	0.0000000	12.415104	12.8437865	8.454631	12.2495911
## 26	6.3376058	6.9788374	1.0461418	10.378768	10.7985754	14.616630	12.7610376
## 27	4.0058132	9.1841389	0.0000000	13.302426	6.6896318	6.326758	5.9198382
## 28	7.7418512	0.8710551	5.4629946	10.365376	3.3969404	8.167041	5.4217383
## 29	13.5364173	3.7064532	0.0000000	10.420029	8.3914915	14.068076	11.4228317
## 30	5.9085583	9.1617542	0.0000000	12.556470	8.8828539	8.931965	8.8997847
## 31	11.7642284	3.3417865	1.5785523	7.929376	3.2841143	9.572688	11.1282367
## 32	10.1653698	4.7149708	0.7670615	12.247454	3.1242123	13.907347	11.1739730
## 33	8.2029035	6.4559371	3.0770550	14.940926	7.8947080	13.712789	7.2232652
## 34	2.4271502	6.6928149	5.8116354	9.909943	5.1709786	11.818141	8.3769332
## 35	1.0688084	15.1077967	7.3068482	17.660782	12.2835608	3.897637	10.4578070
## 36	4.6898694	13.3252256	5.7329990	16.650001	11.0887084	6.477660	9.8790442
## 37	13.0568828	8.1940871	0.0000000	13.377946	6.9200944	14.690416	15.0629198
## 38	10.5004595	2.8457510	8.5706318	12.537202	8.3117660	7.468416	9.4437637
## 39	0.0000000	0.9088129	0.9088129	6.868192	10.7902052	4.966809	12.7032052
## 40	9.0248906	13.5429313	3.3663642	11.773816	9.3082207	6.585783	7.5903236
## 41	4.4137362	12.8372387	0.0000000	15.296638	12.5197454	4.600686	12.0427314
## 42	5.6457103	0.8066128	8.2916938	8.584123	3.8563185	5.545150	13.5484075
## 43	7.5219215	6.3910236	7.3393619	15.109808	11.8174290	3.602386	7.6394854
## 44	2.7280076	6.1177532	0.0000000	11.232908	7.2052948	7.499958	9.6879257
## 45	11.2971303	4.0546228	6.4166945	10.792839	1.7824924	10.167234	11.3797782
## 46	10.4113094	8.9540200	0.0000000	13.071631	10.9550208	8.959315	12.4962552
## 47	6.2473541	3.1956626	2.8167840	9.281985	1.6397415	10.294781	4.4096557
## 48	7.3945176	10.1178148	8.1677207	13.563005	10.5032518	8.027818	10.6934376
## 49	12.7339693	0.8907969	0.0000000	9.539481	9.6376358	14.629185	9.0530630
## 50	9.1436860	6.5657099	0.7173858	12.482444	10.8543935	7.431894	8.8832955
## 51	10.7500085	6.9970970	4.2997282	11.322427	10.6964707	3.477600	4.2283570
## 52	11.2171394	1.3751785	0.0000000	13.587074	13.2746896	15.174645	14.8888324
## 53	7.7030945	4.0084779	6.6117729	12.880845	9.3194461	10.491408	12.5037579
## 54	9.7124584	2.7390488	0.0000000	10.089352	11.7750673	10.471024	11.6306515

## 55	9.1385580	4.1932040	1.3166092	17.841639	7.0849625	5.666509	16.4655555
## 56	1.7828279	7.2891972	0.0000000	10.003701	11.8807843	9.313040	4.3011779
## 57	4.6759570	8.6312822	8.6892415	15.566623	12.6705369	12.659383	10.7713483
## 58	8.9807234	9.0779933	0.0000000	12.573036	7.8873132	5.818073	8.0390973
## 59	0.0000000	1.3059705	7.6717824	7.846239	12.2536941	8.039484	3.2979104
## 60	7.5621249	2.2557726	9.3107884	7.831765	8.9060698	7.024463	9.7997631
## 61	8.8347987	3.1057786	0.9358369	8.063966	7.6767082	13.678919	4.8579661
## 62	11.0814910	5.3490715	0.0000000	9.190663	4.0381815	11.408020	5.6167017
## 63	11.5237261	3.0073390	4.5696916	9.093080	3.1896664	9.771145	10.0540359
## 64	6.9671778	7.7138106	0.0000000	12.321855	4.5448377	5.808048	11.2848246
## 65	2.2775385	4.3587901	5.0514896	8.044802	10.2932383	7.379265	1.5480913
## 66	9.6431882	3.3282908	0.0000000	8.657775	4.6506382	13.856596	4.0310158
## 67	6.7106108	9.2599191	0.0000000	12.788933	5.7735349	8.128523	6.3585018
## 68	7.8115096	3.4937370	0.0000000	8.771800	4.7450921	11.000678	6.5011652
## 69	4.9701266	4.9385163	0.7478600	14.971779	11.0059614	6.386363	5.8539657
## 70	6.0242620	0.0000000	3.5880250	3.412416	5.5806942	11.181492	10.1253910
## 71	4.7796117	4.7911525	0.0000000	10.745240	14.4028205	12.388569	11.2820417
## 72	0.8168864	4.8092755	8.8944137	10.393250	4.1501941	2.901823	5.0767899
## 73	6.7289191	1.1938979	6.4474718	8.666603	9.9871315	6.285445	0.0000000
## 74	12.7689631	3.0980321	0.0000000	5.623045	7.0621573	4.897037	13.4176595
## 75	6.0321978	10.6770065	3.2587300	14.623427	9.6062436	9.455882	8.5047086
## 76	13.9410262	3.9393206	5.5207334	9.481859	9.7638494	12.983483	3.7089156
## 77	1.0131406	5.6255832	0.0000000	9.774368	3.4160425	4.272762	4.9795635
## 78	8.1922894	11.1964277	7.1212175	7.726854	9.1980653	7.776145	8.1072992
## 79	0.0000000	4.4681923	0.0000000	8.343014	2.6216651	4.363704	4.1707503
## 80	8.7093909	5.7820573	6.5549464	6.417729	12.0175109	5.420893	8.9284873
## 81	4.3586705	5.0318098	0.0000000	12.407473	6.5119297	6.644482	5.3053869
## 82	5.9134304	10.3146557	0.0000000	15.277314	8.0352835	3.382626	4.1386752
## 83	6.8506832	10.8206092	0.0000000	13.724419	8.5282490	7.364492	5.6921900
## 84	5.3920495	4.5677523	9.1918291	9.885955	6.3518915	13.553532	8.9259359
## 85	8.7704478	0.3523066	4.2879081	6.952119	7.3666606	5.850704	3.2170446
## 86	12.8975462	0.0000000	0.0000000	2.752021	2.0746767	15.321271	9.6717072

## 87	11.3130483	1.4072440	0.0000000	6.577643	6.9801156	8.195420	8.9320440
## 88	11.8345764	0.0000000	9.9807659	3.313522	2.3144645	3.450934	6.5064544
## 89	6.6314943	3.3378110	10.4016184	7.391381	7.4265348	4.945645	12.4459541
## 90	12.6535506	0.0000000	0.0000000	3.061085	5.9493972	13.453009	9.5380884
## 91	3.3166961	1.0535979	6.0104129	13.020209	13.1139810	9.574035	12.4246787
## 92	6.3046972	0.0000000	0.3774014	12.614350	10.9313685	6.878073	11.3699430
## 93	2.3408756	1.4298570	0.4209405	3.646220	4.2187579	13.839218	3.0797194
## 94	8.3748030	3.8258365	0.6536104	12.589190	13.2691773	11.135707	10.8305606
## 95	2.0132836	2.9309644	9.0861909	10.511351	11.1051443	4.402906	8.3399724
## 96	10.2240223	3.5878570	0.0000000	6.665907	3.2293264	6.842592	7.4417706
## 97	6.8484276	0.3774014	6.6086747	13.190517	13.4616716	9.608449	3.9683765
## 98	8.1106002	2.7811918	2.1555550	8.702822	6.1666391	11.763263	11.5210126
## 99	1.1834548	0.0000000	4.9630070	2.998430	10.4442178	5.076055	11.0627740
## 100	11.0438366	1.9810854	0.0000000	9.964840	0.5765705	3.369453	9.3323016
## 101	4.4293615	0.8320393	0.8320393	11.866166	12.5927076	1.201885	9.1006213
## 102	6.9188632	0.0000000	0.0000000	7.290940	2.4329594	13.050155	11.0678377
## 103	0.0000000	0.0000000	0.8312287	12.019017	10.5874609	14.348431	9.7969666
## 104	2.5915837	4.3731958	0.0000000	17.244636	14.8399665	5.469700	11.0508471
## 105	10.2979354	0.0000000	0.0000000	2.483983	0.3124328	5.387697	7.1196965
## 106	7.5680678	6.2119992	1.1699891	10.205524	4.6294674	14.216769	10.5649767
## 107	10.6067125	3.5673507	1.4901080	12.666041	9.9951895	5.700875	9.4982118
## 108	13.0121501	1.1114988	1.1114988	8.023046	12.9140812	14.079339	12.2277234
## 109	6.3352403	9.6296834	0.5315686	12.254885	6.1754727	8.717989	11.3558416
## 110	8.4428303	1.4132149	8.8746633	9.027790	11.8746580	10.275569	16.7096221
## 111	11.4358540	1.5378427	8.0357410	7.391271	6.5971170	2.060947	9.7975957
## 112	8.5185312	5.1185051	0.0000000	10.703885	5.8069117	14.578114	6.4466384
## 113	8.1784219	11.4246329	6.1242764	9.140393	11.4003729	7.560535	7.8006036
## 114	11.9250057	0.0000000	0.0000000	11.297760	10.0591960	7.597523	8.8060308
## 115	2.5371718	1.1382247	4.3375612	9.191662	5.8741527	5.036930	11.7871249
## 116	11.4672424	0.9848445	0.0000000	6.477679	4.0011807	7.412666	7.2145095
## 117	4.2001198	4.8775774	0.0000000	7.575301	3.5868728	3.829758	10.9140255
## 118	2.4255399	7.3074431	7.6501549	9.496702	11.0631681	5.462645	13.8634299

##	119	11.3167946	12.8239477	1.6114085	14.372047	11.7556162	13.246838	11.3636882
##	120	11.3937369	3.3667978	9.9016960	15.424646	4.0621217	14.337619	13.8482192
##	121	4.7456084	6.9088885	0.9306995	11.375142	9.9362023	8.372049	5.7910978
##	122	10.8414171	5.4881968	5.2045790	12.969005	2.7165081	14.218190	6.8353974
##	123	7.5952933	2.4956952	6.6775815	9.205242	1.4774701	11.572814	10.5562893
##	124	8.0738309	2.1266425	9.6141120	16.241799	17.3979504	2.021800	12.3175423
##	125	8.4254736	4.4346082	7.3522191	8.280641	12.3354464	13.869783	13.4476522
##	126	10.9994278	4.3205785	0.0000000	8.406373	4.7404041	12.683857	2.8732423
##	127	9.4734586	0.0000000	8.9081425	8.611573	2.8168250	12.213280	7.5303775
##	128	11.5356089	1.1053428	0.0000000	6.767555	12.1785904	14.196698	15.6784990
##	129	0.0000000	0.0000000	0.0000000	11.141264	1.8139351	8.062183	7.6750792
##	130	0.8701871	11.2675154	0.0000000	12.881905	8.7435234	4.823785	7.4466293
##	131	1.2795307	0.4403144	0.4403144	2.074505	1.6513617	2.300358	10.0286524
##	132	4.9757769	7.2063082	4.4233429	11.311974	9.3344930	7.734469	5.3436672
##	133	5.3172064	4.3107545	0.0000000	10.887379	3.8028549	4.281928	12.1836236
##	134	8.0306136	5.1038543	8.4093837	15.102732	9.1807426	13.215792	9.7827224
##	135	6.0929199	4.1045883	6.9881780	11.173918	12.2184415	7.804531	9.4106818
##	136	7.8782852	5.7438004	6.6154457	10.964037	7.8275968	13.306850	13.3404202
##	137	12.7090898	7.0090011	7.7871712	11.392116	8.7584658	7.240411	13.9050048
##	138	9.6060159	3.1332840	0.0000000	7.891146	10.7589993	8.024751	2.6282603
##	139	0.0000000	0.0000000	0.0000000	6.652326	6.6307185	2.198117	6.5408968
##	140	10.3507027	0.0000000	7.0070138	5.277367	13.8621132	10.578097	9.8434755
##	141	0.0000000	6.2532670	0.0000000	13.579426	12.0060872	4.866928	10.5334065
##	142	9.7893688	3.9675836	0.0000000	7.792551	10.4275563	10.553396	6.9388574
##	143	9.0062108	8.1721289	2.9053124	9.397330	6.7074599	6.687406	5.3331088
##	144	8.6133419	0.9268344	6.5994309	10.972341	12.9726919	10.447920	11.3763182
##	145	4.1705500	3.3940751	0.8990209	8.380991	11.7020180	7.851983	1.1064153
##	146	11.7983411	5.5718679	10.6957267	8.327866	8.1742491	9.417795	8.6280365
##	147	4.9455609	0.4521737	0.0000000	6.771060	13.9016758	14.575877	10.8762985
##	148	1.7659590	8.2682982	3.0361340	8.842298	12.4892206	6.653059	1.4857875
##	149	7.1840065	0.0000000	0.0000000	18.166970	3.9206268	12.454552	13.3241480
##	150	5.8378247	2.2280183	0.0000000	7.972206	4.9937378	1.723821	8.0113637

## 151	6.5181999	6.6330795	0.5912007	11.028727	8.5351922	14.554531	7.2992099
## 152	1.6209617	0.5010060	4.9098355	6.039252	10.2584428	6.226869	11.6686409
## 153	8.0000947	4.5407465	6.4112483	14.773784	11.2904201	5.104894	14.4499887
## 154	8.9081698	6.4237210	7.3119272	11.550000	11.2758154	7.006654	5.2720083
## 155	13.3825878	3.6357660	0.3472121	7.420914	3.4685051	8.318039	9.4413758
## 156	8.7710454	0.5831339	7.1745462	7.925360	4.4866951	12.114839	8.1341706
##	rs_TCN1	rs_SLC34A2	rs_CRISP3	rs_CLCA2	rs_GRIA2	rs_C20orf114	
## 1	5.2089035	5.7466782	3.3214231	6.6678183	0.8928184	7.8440309	
## 2	6.7679805	8.0751983	2.5983890	10.1999062	2.5983890	9.4627247	
## 3	2.8517191	6.6404677	2.8517191	4.5202902	0.4497462	11.0590752	
## 4	8.0533802	6.3086175	7.0144725	0.8535167	10.7132678	8.3636586	
## 5	4.1728475	4.6306268	6.4025431	6.0351840	4.7628272	8.8780291	
## 6	6.4273078	11.2945588	8.4642533	7.1293253	2.6291701	1.0266584	
## 7	3.6518668	11.8950295	5.0106859	4.6161753	1.1090262	4.1980540	
## 8	0.0000000	8.5673329	0.4304994	4.9002389	6.6353060	0.7617108	
## 9	6.5545750	7.3123620	2.5048492	5.3758978	3.4424658	1.6220870	
## 10	4.3326005	0.0000000	2.0906163	1.6026944	0.0000000	8.8510816	
## 11	1.2253983	5.6776210	6.6297369	6.3150880	1.2253983	7.3889722	
## 12	1.3118518	6.9804595	0.0000000	9.8954927	0.8001648	3.1944338	
## 13	1.5089864	11.2949628	0.0000000	2.7088935	0.0000000	0.0000000	
## 14	7.1403738	6.1437424	11.4296017	4.7262427	2.5088596	5.4112567	
## 15	1.6525094	3.2593177	4.1239889	1.4784542	3.7554858	7.0728679	
## 16	2.7087611	2.8071694	1.2536263	1.9141052	8.6277334	7.5922365	
## 17	4.3083536	6.1544961	1.6277469	7.3282171	5.2870105	7.1485915	
## 18	3.5937004	2.2685242	4.6688453	3.6821912	7.3066268	7.8721836	
## 19	10.0703777	11.3043692	8.6203760	5.5932641	0.3634515	3.0789001	
## 20	2.6260185	5.4440972	0.0000000	6.2261463	1.4459385	11.1276901	
## 21	4.9851816	3.6672336	0.0000000	12.8882228	0.0000000	6.2492197	
## 22	4.9572599	9.6819908	0.8668684	6.9654415	0.8668684	3.3885753	
## 23	0.0000000	3.7271036	3.1706782	13.0101114	0.0000000	3.3809095	
## 24	4.3111034	10.5583540	0.0000000	2.7102389	0.4537546	0.7984238	
## 25	7.5960966	7.4547657	4.6726686	4.0977119	0.4031586	2.6962610	

## 26	6.8213276	5.6124852	3.8120977	4.3901518	1.8728288	7.9577394
## 27	8.2635640	10.1413504	2.4071352	6.3202969	1.0538064	8.1624382
## 28	1.1657512	1.4103411	3.4526218	8.7454609	0.8710551	4.2023629
## 29	4.3637458	4.5972034	3.1916574	3.2384812	6.5747797	13.0900399
## 30	9.0295462	9.4384962	4.5644879	7.7229585	4.8695951	6.5976563
## 31	2.0630542	6.5843958	3.5021524	6.8508944	0.0000000	8.4973729
## 32	4.5301519	11.2549146	3.3886993	4.1572135	2.8001026	8.0337126
## 33	7.7620976	9.3115928	3.0151942	6.0482994	4.8033149	8.5739959
## 34	4.9435604	7.7400141	6.9947200	3.9493762	0.5238630	9.4141797
## 35	0.0000000	1.0688084	8.1582002	9.4501798	1.0688084	7.1183566
## 36	2.8050241	10.2267796	6.1700933	5.8869305	3.1902198	1.1911204
## 37	7.0382035	8.0445143	5.0380586	6.6686269	4.8135298	10.8699224
## 38	0.8827604	6.2500046	16.5306270	0.6439485	0.0000000	7.0453774
## 39	2.1730635	0.5247658	7.0841610	3.0035303	0.9088129	5.1019526
## 40	0.9733541	13.9731525	2.4583295	2.3714752	2.0742657	0.7157177
## 41	7.3903633	12.1252493	8.1551744	5.3794927	4.3221878	0.4088205
## 42	0.4589069	6.4699120	13.9982828	6.5813181	0.0000000	10.5538855
## 43	4.0534676	12.2035192	3.7531017	8.3972763	0.0000000	2.3255303
## 44	6.2715751	6.7575020	6.3729765	5.4221758	2.5078961	8.9606574
## 45	5.8236704	6.5123517	7.1893185	9.9024898	3.4277268	6.5353080
## 46	5.8092678	7.8639917	6.4259661	7.0595846	0.4485838	8.8642837
## 47	2.3874177	3.6768992	2.4684530	4.7547593	0.9312292	4.7547593
## 48	6.4774458	10.4876626	5.7120207	6.4395367	3.0394543	6.2984090
## 49	2.3179697	2.7430410	5.5758266	4.2213976	6.5822218	6.0488683
## 50	7.7211047	11.1666461	0.9754835	6.6139471	0.7173858	9.8493915
## 51	9.0519824	10.6854094	5.1640702	0.0000000	0.0000000	5.3436601
## 52	8.1139302	5.9064048	4.6386937	2.5315936	12.6904765	9.9975380
## 53	5.5627736	5.6965892	4.3934437	8.2811891	1.4009204	4.5018913
## 54	0.0000000	6.1183203	8.7178282	3.0170845	3.3538737	11.4313922
## 55	10.4806360	6.4357869	0.0000000	2.2856981	12.3090907	10.1203738
## 56	2.9848081	7.2703112	0.4924172	2.2207943	0.0000000	0.8589358
## 57	9.5955109	9.9198930	1.4885664	9.1081342	4.9865566	3.3773459

## 58	7.1813998	10.0393761	3.7194792	8.3120184	6.0727275	6.1976158
## 59	0.3723950	11.5543629	0.6681191	2.2715751	0.0000000	0.0000000
## 60	0.6223682	4.3518262	12.1268480	2.4101511	0.6223682	4.2735159
## 61	6.6381839	4.9460664	3.6513502	5.2981964	1.6463470	7.8427444
## 62	5.4504459	5.8122107	2.5955275	3.4709663	5.1464434	8.1872674
## 63	3.5972690	4.6496902	1.7812338	2.3397075	3.2728593	0.3457370
## 64	5.4872291	6.7951149	0.8698714	6.0067827	2.1076544	8.2570271
## 65	6.3736273	10.7062486	2.2775385	2.8723560	3.1205344	0.0000000
## 66	5.4054478	3.4777421	4.8827849	4.1471520	0.3494785	9.9211728
## 67	7.6944443	10.3005509	3.5452024	4.7735164	3.7013273	7.0270169
## 68	5.5933478	5.6834242	1.6678467	6.3387845	6.4196400	6.8199044
## 69	11.4265715	10.0631801	2.0601512	6.3785307	6.5098035	5.6413437
## 70	7.1098735	0.7562547	6.5759990	0.4270698	3.1577713	9.4328018
## 71	8.3015538	4.3035762	2.3759013	2.7035216	4.0772430	10.2736521
## 72	4.2401540	7.2241455	2.9018227	4.2401540	0.4655044	5.4352819
## 73	1.4868173	4.7961513	0.8258670	2.6207506	0.8258670	0.3305584
## 74	4.7488423	3.7242574	2.9965334	1.8551127	5.3315261	10.4873929
## 75	9.0382658	10.6032584	4.9318627	9.4963940	5.3121642	7.8307795
## 76	7.3939104	5.0312673	2.0069084	2.8152270	2.8905829	2.8905829
## 77	1.6025044	6.6183928	0.5937840	7.0089933	0.0000000	1.0131406
## 78	3.0050586	11.0069531	4.1209242	1.0028825	1.2257068	0.0000000
## 79	2.6216651	4.2114639	0.0000000	6.0656455	0.0000000	1.3484591
## 80	8.7149804	11.4077745	3.5810861	3.6292400	0.0000000	5.0659686
## 81	7.5270844	7.5832197	2.2937236	8.7329187	3.0563234	2.2937236
## 82	7.0748083	10.6853723	0.9245560	7.0259368	4.1386752	5.2411080
## 83	8.3472294	6.6131500	0.6143800	4.4575680	1.3745109	5.4769001
## 84	5.0607392	4.1884326	7.4610357	5.6388008	0.8345494	6.3097765
## 85	1.6839210	7.8159788	1.4113178	7.8969039	3.4170964	0.0000000
## 86	0.5448810	0.2980717	4.6359981	0.0000000	3.2111212	7.0620958
## 87	2.4049304	5.8290707	12.9697138	4.6698602	7.3245064	10.5273639
## 88	0.0000000	1.5787455	3.6352552	1.3163196	0.0000000	5.5300145
## 89	7.7236521	4.0287901	0.0000000	6.2232990	9.8329966	8.7301179

## 90	0.3257318	0.3257318	6.2901885	0.3257318	9.8080742	6.8642951
## 91	0.7799741	2.0796341	11.4529815	7.4796429	0.4421208	5.9193282
## 92	1.7622638	2.6049490	4.8781907	4.5501742	0.9237957	5.6875730
## 93	0.7464848	2.7570873	4.7776564	0.4209405	3.7222693	0.0000000
## 94	4.3564396	8.2635213	8.3343917	9.6808356	3.3461201	6.8709294
## 95	0.3517414	4.0649863	16.0467765	7.9288725	0.0000000	7.5065274
## 96	2.7511638	4.6329719	0.0000000	2.4355486	0.0000000	8.5740727
## 97	0.9237957	9.1685761	2.1980226	0.3774014	3.3604064	0.3774014
## 98	2.7811918	4.1363555	8.3539941	1.2522945	2.2633349	7.2835792
## 99	5.6142976	2.5277710	12.3824954	1.3723392	6.3858607	7.4233454
## 100	4.7569966	2.8850081	0.5765705	2.8850081	7.7129224	8.1720144
## 101	0.3335382	3.2990541	6.1803369	5.9015331	0.0000000	13.5879361
## 102	3.7865964	0.0000000	3.0356239	0.0000000	0.0000000	10.5926439
## 103	1.3552418	4.3923174	0.0000000	7.4956992	13.3381159	8.8720053
## 104	8.2743292	3.4152719	1.1111649	13.2547599	0.0000000	9.2196165
## 105	0.0000000	1.9641029	0.0000000	0.5691022	4.4298636	7.1146710
## 106	6.0581022	8.1409422	8.6543009	2.7280076	2.3399355	8.7568772
## 107	6.4267042	2.5118728	1.0603241	0.4455148	3.5673507	9.2905126
## 108	1.4547023	12.2797530	2.7662559	1.2933116	5.3793402	9.5075509
## 109	8.1355010	7.7912573	2.0420840	5.8249078	0.5315686	3.0998338
## 110	0.4143521	1.7349589	4.5415644	4.6217237	4.9972066	5.3429636
## 111	0.9648052	3.7750927	7.0131563	11.4707840	1.9468431	5.8044099
## 112	5.9204053	8.0343500	2.6814493	3.5643660	3.6625473	9.7269031
## 113	0.0000000	5.5246342	7.4880675	3.7073812	0.0000000	1.5900031
## 114	9.0383484	9.2845442	6.0637230	2.2205157	0.4144603	8.5813136
## 115	0.0000000	11.2155431	11.3374056	8.1490551	1.1382247	0.0000000
## 116	4.0302831	8.5420115	1.8523984	2.9733909	1.2050797	5.1269151
## 117	2.5597365	5.0258660	2.1463945	2.2240403	2.5597365	8.6693103
## 118	2.4255399	6.2351239	11.9728859	9.0225082	0.0000000	4.3914584
## 119	8.9251369	9.7352842	6.5468883	10.8134640	10.0262746	11.1035738
## 120	0.0000000	6.2641310	0.8467942	0.0000000	0.0000000	5.4010945
## 121	4.0361077	7.7981004	6.7600293	5.9790010	1.4918018	11.9270622

## 122	6.9777447	8.7979393	2.6379580	4.1185425	2.7165081	7.0741222
## 123	1.9468805	2.3004459	5.0652147	3.2030758	9.8349245	9.4749780
## 124	9.6775007	10.1218620	8.6377349	10.5547941	0.0000000	4.8040536
## 125	2.5374949	3.7882054	2.5864045	4.3379323	1.4865599	5.6965781
## 126	1.1797658	4.2583455	6.9561473	1.1797658	2.9539915	1.6364506
## 127	0.4390380	0.0000000	7.1151654	1.2765562	1.4742024	5.2338881
## 128	3.7725614	4.0483408	1.7237770	3.0350608	8.7917275	8.3914442
## 129	0.0000000	0.0000000	7.1486830	11.3295703	0.0000000	6.8514667
## 130	0.0000000	3.9140191	11.9964240	11.4868794	0.0000000	0.8701871
## 131	2.4955673	0.0000000	0.7771988	0.0000000	11.5376096	5.1831649
## 132	8.7042305	8.7221839	5.4335871	6.4530862	3.7210335	5.1973189
## 133	2.0499792	5.4783474	7.5476758	9.3676321	0.0000000	5.9959141
## 134	4.4231882	6.2517058	8.7111782	9.6609632	1.8903299	10.4029965
## 135	5.1011080	6.5010426	4.5989904	4.7864604	1.1524430	9.2300466
## 136	3.3793021	6.0157473	4.7817321	2.2773302	4.8039813	8.0510213
## 137	8.3653667	7.2928949	1.2633950	6.6996238	3.6093413	8.2947365
## 138	0.0000000	6.5051907	4.6212138	6.2176883	4.5520696	0.0000000
## 139	1.3192133	4.0488813	9.7206998	4.5866447	3.0316775	5.2735979
## 140	0.8793921	0.5056877	7.0669653	0.0000000	6.1688987	4.1868491
## 141	12.8558882	14.6736321	1.3842156	1.9328171	1.3842156	15.5156633
## 142	2.9952312	9.0694951	10.5019427	9.4966838	4.3593806	4.7253867
## 143	10.3499673	10.1483397	0.4443490	0.4443490	7.4909215	0.0000000
## 144	3.1874352	12.7915667	4.1795907	0.9268344	4.9835637	10.4474545
## 145	0.6567252	8.2131650	0.8990209	1.4486896	1.1064153	0.0000000
## 146	9.1575609	4.6432039	0.5562087	2.9231682	7.0469319	8.6416934
## 147	11.2191651	1.3058538	1.0733404	6.4871792	12.3298879	8.4372677
## 148	9.5381831	11.9995200	3.7009723	3.7009723	2.0004327	0.0000000
## 149	0.4564908	9.9093534	2.2393980	0.8027309	9.2794996	8.4969999
## 150	4.3789624	9.3237243	2.3633393	2.4870232	7.6101427	6.2668203
## 151	6.7564763	6.5575173	1.5973643	6.3447575	4.3752063	8.4331886
## 152	1.1670367	0.5010060	1.9657289	0.5010060	0.0000000	12.6534368
## 153	8.3139478	5.0723288	2.5832302	8.3449523	0.0000000	5.4599201

## 154	4.3319058	8.1116474	3.9102626	5.9891367	0.7119354	0.7119354
## 155	3.3579742	3.5377558	0.6269530	1.8958842	3.3957620	6.5598894
## 156	0.0000000	0.9973285	14.0937837	4.9720539	1.5813512	7.1341901
##	rs_DSG3	rs_OBP2B	rs_KIF1A	rs_CYP4F8	rs_TNNT1	rs_LRP2
## 1	8.3663834	3.4959126	2.8068808	5.1049866	4.5929832	9.2285979
## 2	9.1405693	0.4448791	3.1016837	4.7742125	4.7356197	12.1102050
## 3	8.7582475	1.3005338	1.3005338	5.8504669	8.6690115	9.7294839
## 4	4.8896439	0.8535167	0.0000000	1.3860936	4.5100251	13.0900976
## 5	6.6950877	5.2420804	1.5757964	5.3299667	8.3499548	11.9512102
## 6	3.3696200	5.9708997	3.8565376	0.6028369	0.0000000	7.4362885
## 7	6.4556905	5.5393791	2.2799170	0.4706150	7.0330408	10.9338855
## 8	6.3518156	1.7799321	10.6701648	0.0000000	5.6040624	11.8487739
## 9	4.6380275	8.0034763	11.5418937	0.0000000	4.1815081	0.0000000
## 10	0.8598106	0.8598106	0.0000000	2.3431520	4.0066930	9.7963067
## 11	5.7865624	0.7390704	2.7414670	10.1634839	5.6394000	9.8975838
## 12	7.4650415	0.0000000	0.8001648	9.0566507	8.9835323	9.7068282
## 13	10.7823758	8.7734643	12.3291156	0.0000000	4.0610590	4.8882221
## 14	8.5863820	0.0000000	3.4664444	3.1767855	9.7486110	10.5484836
## 15	3.9347146	7.7555286	0.4407396	7.6720554	9.4331852	11.6515355
## 16	2.3654686	1.2536263	5.7443576	10.7227827	5.8170118	8.8859440
## 17	9.2219587	0.0000000	4.7280130	1.6277469	9.5946180	11.5646306
## 18	3.4994377	6.0171380	3.9191017	5.3741179	3.9550710	12.7331340
## 19	7.9237975	10.3377314	1.7190520	2.1500072	7.7675303	9.1879055
## 20	4.3196324	0.0000000	7.1273547	0.3644604	11.6984079	5.7439942
## 21	6.5331802	1.1445685	6.3596969	7.9958401	3.7985586	8.7961941
## 22	1.1606621	9.4953710	6.1831669	0.0000000	7.7326552	7.7739621
## 23	3.0931883	0.9573203	13.0065662	5.8455854	3.4446936	2.6274901
## 24	6.8801847	5.4308339	11.8637000	0.0000000	0.0000000	9.4647493
## 25	5.6533754	8.2875379	2.6226493	2.8331127	8.4170204	5.1232772
## 26	4.1516640	1.3771237	4.1731114	0.6158871	7.6021079	13.3097698
## 27	9.4921606	4.7260846	0.0000000	5.5183778	6.7389110	10.2950574
## 28	1.1657512	0.8710551	11.3830803	8.1248177	6.2405319	6.3324484

## 29	5.4225223	0.3800645	1.7701525	8.1918602	7.1408911	13.2758859
## 30	10.5607407	4.8135196	1.5147535	3.1974094	8.0179013	12.6357514
## 31	9.5190073	0.4826418	1.1322478	5.9769089	3.8978793	11.1279806
## 32	6.3646337	1.2651368	2.1727435	1.0374525	1.0374525	3.2358955
## 33	8.8535145	2.8118820	3.0770550	5.0235526	1.6440408	11.1063562
## 34	6.5382898	1.4601135	4.4314826	2.7423943	6.5314766	9.8303084
## 35	0.0000000	0.4498519	0.0000000	9.5337428	1.0688084	1.3007680
## 36	8.1065525	2.8050241	6.4426135	0.0000000	2.7138937	10.4496621
## 37	8.1940871	8.4427988	5.7185616	0.0000000	11.3475225	10.6713545
## 38	1.7006617	0.0000000	0.8827604	2.1295138	8.2099071	9.5401275
## 39	0.9088129	4.4916992	1.4620000	0.5247658	0.9088129	9.7192464
## 40	9.3220397	8.6444515	12.4546580	0.9733541	2.8281238	9.2568927
## 41	12.5375848	4.0064596	3.9154062	0.0000000	5.0774481	3.4368814
## 42	0.0000000	1.0865120	6.5178725	1.9986649	10.8936983	2.8058290
## 43	4.5690900	2.6667566	7.6459228	2.4484517	10.3169967	4.2006456
## 44	6.3004642	0.9542708	0.3923174	2.2480186	10.7907157	5.9085031
## 45	6.1943708	0.5733745	3.1389291	1.9739051	10.9629824	10.7820833
## 46	8.4055891	8.8654122	1.0663992	2.6102748	9.0122454	8.5360587
## 47	3.6070343	1.3285493	2.8773909	8.4716358	5.3541453	11.3310693
## 48	9.1044234	7.6420040	9.0714935	1.5955514	9.2311866	9.6090906
## 49	3.8745413	0.0000000	1.8329305	0.0000000	8.9678467	11.3624007
## 50	6.8894954	4.6342680	3.4991188	2.9567630	7.5873635	6.9583718
## 51	3.6694464	0.7081431	13.0091893	0.0000000	2.0595629	3.5957423
## 52	5.2042229	0.3399355	0.0000000	6.2960352	4.5757964	13.2615574
## 53	6.1608718	0.9887029	7.4693162	3.2527184	8.7825937	6.8763807
## 54	3.3029331	0.7735744	7.6918482	3.8203219	3.6267312	9.9041256
## 55	6.5178741	8.8515685	1.3166092	6.5037240	7.5380252	13.2895760
## 56	14.4308198	7.8660592	8.4447536	0.0000000	2.2207943	1.1508846
## 57	7.9205952	3.5651585	3.7313245	9.7787142	0.0000000	13.2607450
## 58	9.6002961	8.1923086	2.0715224	9.6958921	9.7750344	10.6807340
## 59	14.1546194	6.5327658	13.3931390	0.0000000	10.0967938	2.7214820
## 60	5.2253598	0.0000000	7.4171301	1.0557510	5.8690620	9.7087682

## 61	7.7499264	0.3832757	0.0000000	3.6159694	8.9982683	14.5118873
## 62	6.7682359	0.0000000	11.4603049	0.0000000	3.7822723	13.0425941
## 63	5.1888321	0.6244285	0.6244285	6.2532821	8.7297315	6.7795487
## 64	6.9382670	1.4086575	2.3610384	0.4994760	8.2274590	7.5290307
## 65	13.2093642	7.1638580	10.0741942	0.0000000	1.7966393	2.1039004
## 66	3.2883733	0.0000000	0.3494785	7.3891572	9.1623327	12.6637140
## 67	9.7140610	3.6253757	5.0453250	1.2229282	5.7910222	11.4832655
## 68	9.0054107	2.5022797	5.1758759	4.9330958	8.4563294	12.9683620
## 69	9.2952283	5.6149218	4.7327468	7.6636741	5.3840809	8.8398371
## 70	0.4270698	0.0000000	5.0004102	0.7562547	9.4478269	4.6703135
## 71	4.6588456	0.7326599	3.4495614	7.6749154	7.9166343	5.2992703
## 72	5.8419605	0.0000000	1.7158055	1.0992279	9.1785312	11.9508221
## 73	1.1938979	3.5627187	10.0118129	0.0000000	6.4935577	8.9940278
## 74	0.9050428	0.3683772	1.4569113	6.9546221	9.0611249	11.7752284
## 75	9.3305967	6.5052764	4.3703387	5.0191948	5.0332468	12.1299116
## 76	7.0603209	8.9839362	0.4619476	1.5295711	8.5666207	5.8099160
## 77	6.8007550	1.8261112	1.0131406	0.0000000	1.0131406	6.1132858
## 78	4.5290963	8.9868626	9.1495805	0.7392433	5.2020219	11.9340525
## 79	6.5353158	0.0000000	0.0000000	0.0000000	1.0221192	0.5997939
## 80	8.3395873	4.5448439	7.7676475	1.1496496	10.1717175	10.2976522
## 81	8.3527766	2.4305797	2.1425115	0.0000000	1.5614972	10.2512387
## 82	8.8620230	5.0587711	1.4834160	0.0000000	2.0507455	11.4357724
## 83	7.6018243	0.6143800	8.3832330	1.0439744	6.8339944	11.9315610
## 84	6.9294087	2.6966616	5.2606580	0.0000000	8.1696505	11.0120866
## 85	5.2918356	5.8298064	11.8064031	0.0000000	0.0000000	10.8489595
## 86	0.0000000	0.0000000	0.0000000	0.5448810	5.9062172	11.7204862
## 87	1.2153058	3.6514995	3.5735563	8.3495325	8.3466059	10.1377319
## 88	0.0000000	0.9953036	0.0000000	0.5818815	11.0157969	5.2003592
## 89	3.3378110	10.6604941	2.9309076	0.0000000	9.3569497	7.8481428
## 90	0.3257318	0.0000000	1.5976504	0.8154935	8.6409733	13.6060714
## 91	0.0000000	1.0535979	5.0715997	3.7601464	9.3996738	3.9394241
## 92	0.9237957	0.3774014	0.6763577	4.7234876	5.9190921	7.6145339

## 93	3.7222693	0.0000000	0.0000000	2.8276361	11.4594718	4.5461783
## 94	9.5070961	2.6223682	8.6235512	3.9107423	5.8150861	2.9776096
## 95	6.6770247	4.3055474	2.0132836	6.6963583	1.2512646	11.4103907
## 96	6.4717110	0.0000000	0.0000000	1.4667054	2.7511638	9.5323550
## 97	12.1175079	9.5148367	12.3217650	0.0000000	5.7288321	7.9954088
## 98	4.0785244	0.4281424	0.7579620	1.4476850	9.9992394	9.3170390
## 99	1.1834548	0.0000000	9.6894047	0.0000000	10.4448758	10.6318710
## 100	4.0636755	0.9873936	6.7628444	11.6697291	11.1663977	11.8500829
## 101	3.1798932	2.5708272	0.0000000	1.7401504	8.0777813	12.6868764
## 102	0.0000000	0.0000000	1.3785116	10.4815976	11.2301406	12.9404237
## 103	0.0000000	1.8469546	6.6766440	1.7388543	4.3377682	12.0462072
## 104	5.9744742	0.4716557	4.9071358	3.7415209	7.6083731	6.5458093
## 105	0.9761436	0.9761436	0.5691022	10.9170255	6.8532135	12.3044739
## 106	7.5344149	0.3923174	2.8580805	1.3576083	10.5554208	10.6968629
## 107	0.0000000	0.0000000	4.0494565	8.0893731	10.9710101	10.0723638
## 108	3.0451459	1.2933116	5.6943175	0.6601985	8.7281539	8.8565242
## 109	7.2008368	2.0420840	0.5315686	1.4760706	6.9742482	4.7462106
## 110	6.0488225	0.4143521	2.5001392	2.4127002	9.3656282	8.5858395
## 111	0.0000000	8.5200953	11.4712677	0.7088494	9.8516024	9.1512096
## 112	8.6044124	3.5643660	1.1696685	6.6813776	10.6097285	10.6461832
## 113	4.0601771	3.8749051	0.4875892	0.0000000	8.6862796	9.3208463
## 114	0.4144603	7.4867900	7.7049681	3.2708578	9.0374349	13.0317089
## 115	5.4073052	2.6791986	7.3970859	3.4866500	5.5620317	3.1386998
## 116	2.8481973	5.8769491	5.2433606	0.0000000	7.6747502	7.5166054
## 117	4.8895417	0.3159140	0.9849174	2.7290959	11.1725660	12.1329272
## 118	7.7788223	2.0436945	1.5229597	8.0645181	1.8066953	9.7531521
## 119	6.5678800	8.6760494	2.0297356	6.4198759	9.1488477	8.5366016
## 120	0.6156988	1.5176284	7.2009202	0.0000000	7.5014153	13.6954862
## 121	7.8471858	1.7073039	2.7845668	1.2383589	9.9475009	10.1900658
## 122	4.4296026	0.4311415	2.4667315	1.6275135	9.9550936	12.6696163
## 123	2.5842169	4.4864055	2.3004459	0.0000000	8.0466155	8.0793482
## 124	2.4019854	5.0099428	6.2822341	0.3852654	5.2376746	11.1444201

## 125	4.9465344	3.3234854	0.2632748	0.2632748	7.8547225	2.8494789
## 126	0.5077185	0.0000000	0.0000000	0.0000000	9.1644406	9.6237650
## 127	0.4390380	0.0000000	0.0000000	0.0000000	2.3972006	5.7829039
## 128	5.5912964	0.3650206	7.2437243	6.4103920	10.1980270	11.8480917
## 129	0.0000000	0.5051796	2.2551986	7.3325692	1.4207788	4.4294285
## 130	1.1647219	0.8701871	7.5553982	11.2795773	2.7645372	0.4997821
## 131	0.0000000	0.7771988	2.3003581	0.0000000	7.3170345	7.8327679
## 132	7.0912904	11.2923291	6.1512601	6.4954601	5.1801041	8.1864045
## 133	4.3939378	0.0000000	3.0120501	1.9062364	7.1611621	5.9780537
## 134	7.0688116	3.9762811	4.2741573	2.8106282	8.6691547	8.4220913
## 135	7.6195509	0.9390008	5.8315277	2.4817639	6.9096483	10.3096056
## 136	5.6850683	0.5134907	2.1441443	0.8914970	2.1441443	5.9965560
## 137	9.5560283	1.6326405	4.0361692	0.4330663	10.1997582	9.8196380
## 138	5.0300226	8.1789103	7.6456685	0.3650206	5.8725111	0.8982471
## 139	0.6763577	1.3192133	0.0000000	0.0000000	6.5638827	2.5323170
## 140	1.9777195	0.8793921	11.0810887	0.0000000	11.6760455	8.0155076
## 141	3.5691994	0.8521587	1.9328171	0.0000000	1.1425441	3.5194161
## 142	6.6290433	7.8568917	9.4376994	2.3740935	8.5323563	2.9307184
## 143	3.3242778	4.3301711	11.9065400	0.0000000	6.6772743	8.5562742
## 144	2.3377111	11.0071816	9.8048482	0.0000000	7.9744542	8.9255378
## 145	12.1950937	4.3443953	11.3219003	0.0000000	4.4240487	1.8457510
## 146	6.4902380	0.0000000	5.5575326	1.5268200	9.0643030	12.4838629
## 147	1.0733404	9.2214242	4.0727661	1.5060941	10.1058402	11.5570112
## 148	11.4421725	0.0000000	12.7856617	0.0000000	9.5681522	0.0000000
## 149	0.0000000	6.8488032	2.4505910	6.4851515	8.3533431	13.2288683
## 150	1.7238206	5.2421985	2.0787123	0.0000000	0.5465611	1.5071603
## 151	6.3037223	4.0835453	1.3330802	6.9985509	7.7965504	11.0807636
## 152	0.8720801	2.3650206	0.5010060	1.6209617	11.3116274	11.4458624
## 153	6.7362923	0.0000000	10.2389889	5.2429797	9.2226679	2.2751859
## 154	11.9520439	3.2648967	7.2678167	0.9685700	9.6548216	7.5317791
## 155	1.3966527	1.3966527	11.5987773	2.5603726	5.5874010	7.7347205
## 156	1.8035164	4.9016730	6.2138411	1.5813512	8.3890789	4.3871764

##	rs_PROM1	rs_PVALB	rs_FAM5C	rs_ELF5	rs_GFRA1	rs_PGR	rs_CGA
## 1	6.8609702	3.9200360	0.5144000	9.1161511	14.487078	12.787348	0.0000000
## 2	8.3710949	5.4937946	6.2501980	5.9210126	8.041977	12.176893	0.0000000
## 3	7.6621670	1.5002922	6.0468403	4.5202902	11.307703	11.885023	9.3037839
## 4	6.0255870	12.6313870	0.4889263	5.2057522	8.493677	13.033314	0.4889263
## 5	10.3426787	3.3935123	0.0000000	2.1908677	14.324104	14.057517	0.4815056
## 6	12.7976161	1.3538878	9.5734429	12.3562373	7.328684	4.509962	1.0266584
## 7	10.6781472	2.5882049	1.5500634	10.9446528	9.465836	6.972303	0.0000000
## 8	11.8635239	0.0000000	1.7799321	12.4927722	10.372347	4.116331	0.4304994
## 9	11.7842963	0.0000000	0.0000000	11.8889948	9.145342	3.136388	0.0000000
## 10	8.5909601	8.6121442	0.0000000	2.3431520	14.570822	7.055308	5.5432020
## 11	8.2357027	0.4164074	0.0000000	9.2883796	12.358905	9.689779	8.2373032
## 12	6.9762181	9.8463838	0.0000000	6.1280459	6.340906	7.547387	1.0785415
## 13	13.0071470	0.0000000	4.8655625	9.5754838	5.706774	4.138708	0.5474498
## 14	9.5807208	1.5900990	2.3280897	6.2491988	13.907606	13.231550	0.7400209
## 15	3.7168044	2.3016754	1.8078083	4.3929287	14.149654	11.857110	0.4407396
## 16	5.6938047	5.6414189	0.0000000	7.3237871	12.722930	11.687281	0.9432837
## 17	4.0045194	13.5708310	1.4180280	3.6674040	13.266960	5.191211	3.2266935
## 18	2.1493894	1.7185260	1.3375969	1.5405729	14.232081	8.381844	0.0000000
## 19	10.5269589	1.1017173	0.0000000	8.4488072	10.853503	11.685107	2.0537369
## 20	6.9204386	0.3644604	0.0000000	6.1287759	12.388586	11.451186	0.0000000
## 21	10.7494610	2.8184211	10.7286803	5.7405768	3.879912	5.783491	0.4891319
## 22	11.5286786	0.4976379	0.0000000	7.7575807	4.193630	2.102625	0.0000000
## 23	2.8321204	3.0113167	0.9573203	5.9808068	3.564366	4.006092	0.5566992
## 24	11.7193508	0.0000000	0.0000000	11.6986442	5.503161	5.962468	0.0000000
## 25	8.5067150	0.4031586	1.8397178	5.0266938	6.181466	13.505617	0.0000000
## 26	5.6889328	7.8717968	2.5990083	5.4195659	11.920140	7.932804	0.0000000
## 27	9.9882670	4.6661999	0.7802261	8.1015708	14.219116	13.415912	2.3061164
## 28	10.3530840	9.5339349	1.8019864	8.6444728	7.897924	3.791783	2.4749811
## 29	5.7956007	8.6108628	0.3800645	1.6366826	12.831390	10.177938	13.4517586
## 30	10.4695626	2.1188580	1.6910874	7.7355878	12.322758	13.038994	0.0000000
## 31	9.5711811	2.3142035	1.1322478	3.5518851	14.048726	13.856478	6.1563905

## 32	6.2954273	1.2651368	0.4339209	8.1199423	12.094384	13.246247	0.0000000
## 33	9.2432456	0.7727302	0.7727302	8.3226673	12.485660	11.164527	0.7727302
## 34	7.8092376	1.8587767	0.0000000	5.3519957	13.679297	12.357809	0.9074291
## 35	10.6908978	0.7922723	7.5986362	8.6810282	12.098545	5.273796	1.0688084
## 36	11.3104798	2.3998820	1.4388251	10.9675845	8.905885	7.387150	0.0000000
## 37	8.6047052	2.1517939	0.0000000	7.4540401	9.164821	10.428554	6.9852670
## 38	12.3220016	0.8827604	0.3576083	9.2985795	11.608442	9.585116	1.4264795
## 39	2.5425057	1.4620000	10.9929446	2.3069913	11.600578	10.117314	0.0000000
## 40	13.8479440	0.7157177	1.6995072	8.4261272	7.462193	5.829766	0.4017397
## 41	10.4475491	1.8564679	8.8507260	13.5183742	4.172943	4.413736	0.4088205
## 42	11.5772974	1.0865120	4.9349127	8.3020032	10.549205	4.786183	0.4589069
## 43	13.1349403	0.0000000	0.5318680	12.1162459	3.373300	3.973832	0.5318680
## 44	7.1492238	0.7004397	0.7004397	5.2071237	13.170674	13.233643	6.1750375
## 45	7.3873505	9.7530225	0.9826560	3.6682326	13.451855	12.467117	8.3935428
## 46	10.4113094	0.4485838	0.0000000	4.7687454	10.954756	12.958903	4.8068447
## 47	11.3949765	0.0000000	0.9312292	0.9312292	11.843102	11.946175	0.6822137
## 48	10.1624991	3.5108860	1.8479168	9.1724505	10.159587	9.248728	3.5469809
## 49	4.8532122	0.6503050	1.5816887	4.6555064	14.435292	14.076439	4.1305026
## 50	10.4150668	2.6949916	0.0000000	4.2749325	12.572621	12.851851	0.7173858
## 51	13.3879250	0.0000000	2.7448930	11.2182578	9.333535	4.411345	4.0740601
## 52	7.5197825	0.0000000	11.1989936	4.7987349	10.997207	10.538533	6.2209471
## 53	6.9043143	4.0941347	1.9830209	4.8025706	13.360638	5.776488	0.0000000
## 54	5.4686354	8.7843446	8.4805329	8.2102637	12.563682	9.020081	8.5775044
## 55	9.5304477	1.1326426	0.3765127	4.7029179	14.272347	11.837826	0.0000000
## 56	11.4815076	0.0000000	5.9164265	12.7011459	0.000000	3.125965	0.0000000
## 57	10.2424915	8.3885452	2.6821687	10.6066601	10.323620	7.851564	0.0000000
## 58	11.3424411	2.0715224	7.7437701	8.6021536	11.032306	13.150555	0.0000000
## 59	14.0184673	0.6681191	2.3569889	11.2723990	4.996493	3.642170	0.3723950
## 60	6.0677635	6.4480039	0.6223682	7.8936128	7.761777	5.835386	6.6705826
## 61	7.0984743	13.4339326	0.0000000	2.7618171	12.901433	7.371998	7.5252499
## 62	6.4189236	11.3509846	4.6628036	9.0676188	15.200163	6.271566	1.7543317
## 63	6.0382913	11.3557518	0.0000000	2.9579146	14.340431	11.764992	9.8528444

## 64	7.5704432	5.0740387	0.0000000	8.3125281	12.085903	12.825629	0.0000000
## 65	8.8973723	1.0701145	0.0000000	7.7855591	4.452332	5.756351	0.0000000
## 66	2.4289731	0.6304987	0.0000000	3.0224921	12.980910	11.965225	0.0000000
## 67	11.3754579	2.0007212	3.2738739	7.4216188	11.941153	12.570342	0.0000000
## 68	9.2416803	3.1838517	0.3907777	4.5092905	15.281767	12.884488	7.1676449
## 69	10.5453825	6.0589723	2.8758980	8.4341370	13.641368	12.826803	0.0000000
## 70	2.2600257	3.5460795	0.4270698	6.1625283	13.009835	8.466849	3.0418562
## 71	4.9642184	9.4852328	0.0000000	7.1823298	11.069889	10.256641	0.9124199
## 72	11.5365073	10.4907791	2.0166746	5.5801244	12.578374	4.598675	7.5248809
## 73	10.2880491	3.0375404	0.0000000	6.6898652	9.235665	6.102891	0.0000000
## 74	4.0370219	3.4058018	0.3683772	2.1668440	10.563680	13.489414	1.7341785
## 75	10.8130558	1.8236271	4.4563068	10.2769183	12.740460	11.190183	1.1825652
## 76	5.8195890	0.4619476	0.8113066	2.9621973	14.210166	13.698819	2.3649366
## 77	6.6033623	1.0131406	1.0131406	6.1238586	10.729228	7.988997	0.0000000
## 78	12.9607655	0.4165155	2.4197276	11.4402348	4.590506	5.278650	0.0000000
## 79	2.2042033	0.0000000	0.0000000	1.8388711	10.976505	6.932321	0.0000000
## 80	12.2488321	0.0000000	0.0000000	10.3385081	4.594208	6.830071	0.0000000
## 81	8.9189208	1.9735745	1.3008266	6.4244905	12.257269	11.141153	0.0000000
## 82	11.7112553	0.9245560	0.0000000	11.3492772	10.751123	11.002554	0.0000000
## 83	7.1627770	4.5089357	10.4025167	5.9306120	14.220283	10.746544	0.3397075
## 84	5.4098797	4.3994719	10.7497753	7.3637633	13.467858	13.437631	2.4432353
## 85	11.5425576	0.8717648	0.3523066	12.9282662	5.427841	5.464456	0.6353365
## 86	1.5037049	6.7539494	0.2980717	0.0000000	13.580409	3.767708	5.7853753
## 87	11.0027393	5.2102798	0.4119685	6.2165363	12.932630	13.470526	4.4475527
## 88	1.3163196	0.0000000	0.0000000	0.0000000	11.982354	4.718926	3.6918133
## 89	5.5535909	0.0000000	0.0000000	8.3176175	8.684379	6.954128	2.4738648
## 90	4.2847732	0.3257318	0.0000000	3.2649117	9.370984	11.199251	6.5225878
## 91	13.4963144	2.8979955	8.6415124	8.2963381	13.436168	6.694124	1.6559471
## 92	6.6650303	6.1733713	8.8743710	8.9729660	13.473478	8.512679	1.1350094
## 93	2.8949147	0.0000000	0.0000000	4.4148391	15.721780	11.526677	1.2359721
## 94	7.9390655	3.7963901	1.2825584	5.4398525	14.262746	8.160377	0.8949923
## 95	7.7627474	3.9408057	6.8318975	5.8617321	14.163888	16.479440	0.0000000

## 96	5.2156475	6.8969838	0.9121900	0.9121900	6.115818	5.752639	2.6534270
## 97	11.7689846	3.3604064	0.0000000	11.8430758	3.592708	5.618999	1.4824869
## 98	8.3263054	5.7879078	3.4621440	6.7610685	12.887809	10.493273	8.4483509
## 99	1.9486382	0.3981314	8.3879975	8.8776621	12.946640	11.833085	0.3981314
## 100	2.7856970	2.4387719	0.0000000	0.9873936	12.497051	12.286989	0.0000000
## 101	10.9563441	8.1282707	0.0000000	8.5725634	4.162299	3.960178	0.8320393
## 102	5.6836965	8.2278566	0.0000000	0.0000000	11.886078	11.739080	0.0000000
## 103	4.9841062	2.6310577	0.0000000	0.0000000	12.134114	11.060878	0.0000000
## 104	6.2702822	4.5263130	11.6435398	8.5931595	12.425618	4.811029	0.0000000
## 105	1.7731946	6.5998846	0.0000000	0.0000000	12.382596	4.239841	0.0000000
## 106	8.6698832	4.7005507	2.8580805	5.1948671	14.797635	14.429341	1.8074374
## 107	3.7335387	5.3504796	0.4455148	7.2154845	12.681618	12.086560	0.4455148
## 108	3.8716465	7.3959916	0.6601985	4.1325522	12.231297	10.022165	8.9062331
## 109	8.4956592	7.0919864	2.3246378	6.9115682	8.036169	9.510209	4.0131496
## 110	7.3369849	10.2693608	4.0561847	8.0231910	11.873124	9.307735	4.6790522
## 111	2.8768018	7.3912711	6.0101487	8.6781755	13.506798	3.052590	0.3975839
## 112	8.1446338	4.0728261	0.0000000	6.7217923	13.292925	11.941173	1.6241945
## 113	5.1691995	2.3279460	0.0000000	6.9405603	12.845109	9.153858	0.0000000
## 114	12.4270047	5.8220673	1.4135399	7.1405721	14.427854	9.283004	9.6910874
## 115	12.1553409	0.0000000	8.8067645	5.4867433	5.903397	6.202962	0.0000000
## 116	12.9815342	1.2050797	0.0000000	7.9827552	14.701750	12.856811	7.2612967
## 117	5.0040249	12.8987875	0.0000000	3.5268576	12.700032	5.237246	3.4642370
## 118	8.7878190	5.3784978	7.4010502	4.6995738	5.522680	8.084575	0.7000845
## 119	10.5472908	3.3085065	4.7568578	5.1949341	12.938245	12.608677	0.0000000
## 120	4.8286062	7.5328585	0.0000000	5.3735717	13.223029	12.334177	0.3405053
## 121	8.0727350	0.0000000	0.0000000	9.1946510	13.815297	8.708424	12.5749693
## 122	3.5171623	6.8176885	0.0000000	2.7910013	13.457966	14.724411	6.3230944
## 123	7.5792269	2.7464633	2.3004459	3.9332705	15.410534	13.355540	1.8066953
## 124	8.3258240	1.3394225	9.0979926	9.2964416	8.120594	4.205330	0.6890307
## 125	5.7076766	7.8358799	9.8773262	1.3795655	10.004546	4.264679	2.2644163
## 126	3.9784977	8.0058328	0.0000000	7.5950277	14.617956	8.384178	9.1235674
## 127	3.2533237	4.9316358	1.2765562	8.1574495	13.742406	10.546227	7.6007916

## 128	4.5159143	10.4783134	0.0000000	4.1217449	8.572529	7.179708	8.4049853
## 129	7.6177121	0.8786861	12.7344370	8.0868681	13.305203	5.336894	0.0000000
## 130	9.6907252	0.0000000	4.8025448	8.4930897	11.434330	4.759097	0.0000000
## 131	0.4403144	0.4403144	0.0000000	0.4403144	2.074505	1.806613	3.8641069
## 132	9.0060573	4.7139267	1.8525982	7.1455165	14.387599	11.500771	0.0000000
## 133	6.5910570	2.1806571	3.1460686	8.0680979	10.042738	7.809652	0.8360857
## 134	6.9262319	8.1787405	2.8106282	9.0419167	11.951208	8.405767	0.0000000
## 135	7.0157061	2.2229900	0.0000000	0.9390008	13.190346	12.712224	5.2820283
## 136	6.7360731	0.0000000	0.0000000	4.8474809	13.090909	11.809416	1.1906781
## 137	7.6226259	8.0268216	1.9264170	5.8422875	13.039205	9.240504	10.0877080
## 138	8.4259762	0.3650206	0.3650206	12.3459624	1.592397	2.983769	0.0000000
## 139	5.4713338	7.5946911	0.9238718	9.7232543	12.716898	12.978709	1.8842462
## 140	0.0000000	4.3140947	3.5747313	4.8005479	12.753309	4.373739	6.4509126
## 141	14.4472616	3.0437644	0.8521587	12.1053829	10.258369	5.949278	0.0000000
## 142	8.9736908	3.1161817	1.0328061	6.1010512	10.887466	4.953559	6.5236404
## 143	8.6486258	4.6532722	3.6485690	12.5153932	7.428863	2.203671	3.2164549
## 144	10.6604251	1.2337040	0.0000000	1.4865599	11.708760	5.672745	4.0284631
## 145	10.6147303	1.9570602	0.8990209	10.3939049	8.943124	2.332192	0.0000000
## 146	4.3423414	2.7321389	0.0000000	0.9565771	13.148555	8.433903	4.7975785
## 147	4.3054161	3.9406742	0.0000000	2.7843783	14.288660	10.252788	0.0000000
## 148	12.0916818	0.0000000	5.3006875	12.4425357	4.712051	3.632803	0.0000000
## 149	0.4564908	0.4564908	0.0000000	0.4564908	7.768123	13.290710	0.0000000
## 150	11.5282374	0.0000000	0.0000000	11.8630597	4.667478	8.543723	0.0000000
## 151	7.6514600	10.2870844	2.6004363	6.2326281	10.764431	8.455216	0.3256167
## 152	5.0610244	10.2302981	0.8720801	7.8926454	5.437844	9.565953	0.0000000
## 153	5.8540231	12.5687437	8.9554735	7.7605037	4.390338	4.878750	1.3426685
## 154	12.0081979	1.5429514	0.3994446	11.8417756	9.506438	7.671511	0.0000000
## 155	9.8780383	4.3831236	0.3472121	7.3814287	13.849806	13.740564	1.6677559
## 156	10.7182642	0.5831339	0.0000000	0.0000000	5.533875	14.619912	1.3186928
##	rs_CP	rs_KCNC2	rs_MUC16	rs_AQP5	rs_CBLN2	rs_KRT81	
## 1	5.3034922	2.9735194	2.7157177	2.9735194	1.9995671	9.0582009	
## 2	6.5554818	0.0000000	4.8117998	2.9070252	6.8650379	8.7483582	

## 3	11.1324398	1.0686020	6.8425150	1.9732072	3.3937868	9.1234603
## 4	4.8988420	2.3317912	4.5353438	2.0797706	0.0000000	6.1940437
## 5	9.1717102	1.1300083	4.6760530	1.1300083	10.0638459	7.7101135
## 6	10.5995955	0.0000000	2.9528367	11.4725729	0.0000000	5.0957135
## 7	10.7711836	3.1856604	7.9732049	5.8789239	2.0304067	5.8308587
## 8	6.2866058	0.7617108	10.9507502	9.5858113	3.2770028	12.2178316
## 9	0.0000000	0.0000000	5.9370524	12.2350708	1.3553546	4.0060197
## 10	2.9843706	0.0000000	1.9455702	1.3948982	9.5362379	3.4835449
## 11	4.4306466	1.8783330	10.0878874	3.0046452	2.6674380	3.4642500
## 12	6.4561704	0.0000000	4.1439648	1.3118518	0.8001648	4.3933338
## 13	10.0834444	0.0000000	11.4718151	1.7257848	3.1450089	14.4913400
## 14	9.9848059	7.2713258	2.1214133	4.9923651	9.9180998	7.6918419
## 15	11.7190255	0.4407396	3.0260918	8.2814131	0.4407396	2.6689133
## 16	5.2119350	8.3724764	11.2396979	4.9323400	11.6291698	3.0675527
## 17	6.8188224	0.5039593	6.0582191	0.8766446	8.5481584	3.1607750
## 18	5.3532456	4.5562884	0.8186052	2.6657566	3.1104468	4.6248729
## 19	9.2299135	9.0457515	8.7971135	4.9581652	1.7190520	8.4488072
## 20	4.6791141	0.0000000	6.8175938	3.6761884	1.8426169	4.1893423
## 21	14.6383604	0.0000000	3.7561053	1.9354975	1.5935928	7.6112558
## 22	12.3864565	0.0000000	4.5385692	6.9559009	0.0000000	10.3383545
## 23	0.6461627	0.0000000	1.9355352	0.0000000	1.7460117	6.0439438
## 24	6.2053299	0.4537546	7.7655069	9.9605520	2.5372961	12.5076915
## 25	6.3995283	0.0000000	4.6543095	1.5531147	0.0000000	5.0408924
## 26	4.2516358	2.8855548	1.9740520	3.9675006	0.0000000	3.6067265
## 27	9.0052279	2.1974880	6.4620409	6.3395953	13.4570295	6.3586371
## 28	3.2150573	0.0000000	1.8019864	5.7999939	5.4493732	4.7609661
## 29	3.6185676	3.2384812	1.1410403	0.3800645	6.4460593	2.4647728
## 30	13.2021090	5.6233899	7.1702215	5.5679774	2.1188580	9.7146422
## 31	6.6789550	8.9497864	4.7668019	0.8437427	1.7587296	2.4251101
## 32	7.0530733	0.0000000	7.9885853	0.7670615	10.0445139	10.0550207
## 33	8.1359893	2.9505431	7.2998582	7.8243001	7.1639183	6.8462814
## 34	8.8694628	0.0000000	3.4685963	1.2100771	11.3988569	6.8323799

## 35	10.5045152	2.3290949	0.4498519	2.5252420	1.3007680	2.5252420
## 36	10.3079938	2.7138937	9.6722240	7.6276827	3.4939419	6.9007461
## 37	7.1805000	4.9603912	4.5738168	6.0254984	10.5630419	4.8570404
## 38	9.7882665	0.0000000	4.4286516	0.6439485	4.9847124	4.3709733
## 39	7.7698590	0.5247658	3.4130524	2.1730635	2.3069913	6.3214014
## 40	8.7163112	0.4017397	11.0842763	8.5865760	4.5132949	14.4567747
## 41	11.6763155	0.0000000	4.7130854	10.1023361	3.7140257	3.7140257
## 42	9.2967547	0.0000000	1.5224073	12.3626595	5.2077172	4.8624663
## 43	7.1227586	0.0000000	5.6450531	7.8659077	0.5318680	10.8072784
## 44	8.0530538	7.3141291	7.0057368	3.5775376	3.1396496	4.7005507
## 45	9.4361954	0.9826560	6.1051333	0.9826560	11.6183839	6.4890259
## 46	6.6557354	0.4485838	4.4695214	3.3388950	4.6054232	7.6236986
## 47	5.6680567	0.0000000	1.4925198	2.0082717	8.5199593	3.3745109
## 48	10.8149017	2.0626744	8.8777927	6.3907021	3.0892778	9.1789364
## 49	8.0838309	0.3614315	9.6095153	0.3614315	3.7879757	1.7127718
## 50	7.3202852	0.7173858	10.8621532	1.3842709	1.5521311	4.1755725
## 51	12.1944660	0.0000000	6.4248818	4.6116091	0.3971458	9.7219071
## 52	9.9841846	6.1471540	10.4308535	1.2193389	1.2193389	5.7370891
## 53	8.8264573	0.7279640	3.0954519	0.4093638	0.9887029	6.0580480
## 54	9.1039820	3.4506834	7.7922385	0.4380799	0.7735744	8.0820309
## 55	12.1033038	9.1293706	2.6013637	3.3979125	0.3765127	3.6240775
## 56	8.2334639	0.0000000	8.4278098	0.4924172	3.4816735	14.2922967
## 57	9.3320815	3.0398929	8.0889016	6.4779379	1.0590783	5.5727866
## 58	9.9278668	0.4008658	8.2080221	5.7074502	4.7173364	7.7587842
## 59	11.4289681	0.0000000	13.4448454	7.9165053	4.2226423	14.4581315
## 60	5.8803353	1.0557510	10.9529272	2.1719113	0.3444877	10.9572392
## 61	6.1908222	8.3340149	3.1559111	3.5425181	10.8974024	4.0462815
## 62	4.4462298	5.2736166	4.1388145	0.6721085	5.1704138	3.1717352
## 63	4.6047949	0.3457370	1.0588014	1.0588014	11.5391678	5.8681385
## 64	6.4431358	8.2725519	9.1968485	4.6906518	6.8374854	4.7802628
## 65	9.7651657	0.0000000	7.8315511	4.9266542	1.4056657	12.0927522
## 66	6.5206957	0.0000000	1.6746866	0.0000000	2.2740827	2.3536056

## 67	11.5881908	6.2038883	5.7197612	5.0453250	1.8751510	9.8820750
## 68	8.2075474	5.0595846	3.6803244	2.6525783	3.8763991	7.7122897
## 69	9.7212626	2.6341983	7.8704652	4.2045007	9.5156571	8.5484940
## 70	1.7951020	0.0000000	9.1280152	0.0000000	7.8698264	2.6248495
## 71	6.2296418	4.2376402	12.0586302	1.7765673	2.0313246	3.0872761
## 72	8.5680272	0.4655044	5.2014731	0.8168864	1.0992279	5.5334419
## 73	11.6845271	0.0000000	10.6978856	6.7872692	4.4502347	9.9219839
## 74	2.7159153	0.3683772	1.1133671	0.9050428	12.0060717	2.9965334
## 75	11.6655319	7.5373108	8.5034473	8.4920438	1.5384388	8.2336197
## 76	8.7293142	0.0000000	2.2551683	0.4619476	6.5808374	5.2757297
## 77	6.5880205	0.5937840	3.0229537	4.0245768	2.8298496	1.6025044
## 78	8.2274147	0.0000000	2.0043216	10.4369275	1.5888046	7.4151392
## 79	8.8489615	0.0000000	2.3571860	1.8388711	2.3571860	0.0000000
## 80	13.2532947	0.0000000	11.0358350	5.7605989	0.0000000	13.6907061
## 81	9.9165123	2.6705911	5.9539008	4.6664669	1.3008266	6.7463370
## 82	8.4348434	6.5811448	9.7721037	9.5113239	0.9245560	6.0662636
## 83	6.7873254	2.8818799	5.3790629	0.6143800	2.5306451	3.5383519
## 84	11.9297866	7.6302882	3.8656219	4.1884326	2.2976023	4.2291726
## 85	2.9417261	0.0000000	7.6148622	3.9691136	0.6353365	5.2293764
## 86	3.4029677	0.0000000	0.2980717	0.0000000	4.9569720	2.2238550
## 87	5.3248574	0.0000000	9.6540859	1.5766672	3.0479397	8.3289226
## 88	5.3983948	0.0000000	6.2668990	0.0000000	2.7993567	3.3135216
## 89	13.1271113	1.6185206	3.3957209	5.4204251	0.0000000	4.0649346
## 90	11.6417085	4.1264030	0.0000000	0.3257318	1.0094905	0.8154935
## 91	6.1516397	0.0000000	4.1287388	2.5011079	5.8759471	9.1310822
## 92	8.8405803	1.6291468	9.2215697	0.6763577	6.1793379	4.1494545
## 93	7.4246047	0.4209405	2.2409859	0.7464848	12.7657318	3.6847514
## 94	8.6440423	0.0000000	3.4631908	7.4411133	4.9714286	2.7507566
## 95	4.2540876	8.5436965	3.8608139	3.3378538	0.3517414	5.0455609
## 96	3.4865084	0.0000000	3.7853413	3.0099741	4.1856842	8.1185596
## 97	15.0520796	0.0000000	10.7001617	2.8639186	3.7927408	8.7212790
## 98	5.0839111	3.5066908	2.3635916	1.0261627	10.7242917	5.3235970

## 99	9.1488126	0.0000000	4.3717610	1.6890755	0.7098200	5.4973760
## 100	1.8097025	10.9566473	0.0000000	2.3017340	5.2233106	6.3500569
## 101	7.8577627	0.0000000	3.6671541	3.4780658	3.2990541	8.9562562
## 102	0.0000000	9.3746048	2.9634741	4.0179219	1.5849625	7.7210992
## 103	3.3914240	0.0000000	2.5692723	2.6903053	0.0000000	2.4371212
## 104	9.0932641	0.4716557	5.3240977	2.1636919	1.1111649	5.0317613
## 105	1.6934535	0.5691022	2.1326755	0.0000000	7.2422690	0.5691022
## 106	8.9774997	4.8796911	5.8393147	1.8074374	9.7861780	6.8697061
## 107	2.9416134	1.6648924	6.0937588	4.3084701	2.3161457	5.3883618
## 108	1.2933116	0.9034240	9.3224816	1.9641029	2.8265180	9.3951592
## 109	10.7330268	0.0000000	3.6533582	3.0228472	1.8769196	8.8658282
## 110	8.3254125	8.3851432	9.6911887	1.8723560	6.9474534	7.5049278
## 111	1.0688084	0.0000000	2.2651668	4.6319424	0.3975839	8.5606626
## 112	4.9772250	1.4147309	4.6530084	4.8943813	7.1602637	7.2179141
## 113	8.9856681	0.0000000	5.4469708	6.0561673	9.1393651	3.6622739
## 114	6.4277989	3.3197624	8.3492803	5.3899729	12.8720670	3.6607575
## 115	5.8756277	0.0000000	10.1275329	0.0000000	3.1386998	13.6593564
## 116	7.4601003	0.0000000	5.5651280	1.2050797	5.4405603	5.5247909
## 117	7.6968952	0.7944367	2.6748222	1.6795139	8.3523798	2.5597365
## 118	8.5876283	0.0000000	9.0068284	5.7739014	4.5537230	6.7439404
## 119	10.0946466	8.1565928	5.7111838	5.6034839	7.4056087	5.7484371
## 120	2.3976387	4.2146844	3.5418617	10.4783707	0.6156988	2.5986510
## 121	7.2185720	2.6864333	5.0319818	4.4490859	8.4803443	8.1275239
## 122	5.2212430	6.9454930	2.4667315	0.7626465	4.6255394	4.4755065
## 123	9.7840557	4.0926641	4.5316310	3.6347559	9.3005962	3.0247452
## 124	8.3499402	0.0000000	4.7720862	10.3765985	0.6890307	5.3283949
## 125	8.9551396	0.0000000	5.4871197	0.0000000	1.9272897	9.1076377
## 126	2.6017203	0.0000000	3.4197546	1.6364506	2.9539915	3.4197546
## 127	9.1828755	2.2963693	0.7750927	1.0475384	0.0000000	2.0706984
## 128	8.5333850	0.6559929	11.0755025	2.0588706	2.3306158	6.0644302
## 129	13.1384314	0.5051796	8.3725734	0.0000000	4.7548074	0.5051796
## 130	9.5982988	0.0000000	3.9531069	2.1082233	0.0000000	3.7461515

##	131	6.1372207	0.0000000	4.0308834	0.7771988	0.0000000	4.8318975
##	132	7.8401560	0.0000000	5.8905172	5.8905172	7.9092025	7.2768391
##	133	6.3319255	1.5671073	10.4603851	3.1460686	5.1676429	6.9437385
##	134	9.6923695	4.4432751	5.9202409	7.8027690	3.1408932	6.1575794
##	135	11.2881289	3.1115155	8.9839911	0.9390008	1.7847971	6.7467091
##	136	13.4672438	2.1441443	5.7779246	2.7132339	5.1550287	5.4513199
##	137	5.9835842	6.6552073	4.8053337	3.5240888	1.6326405	9.9717609
##	138	4.1196467	0.0000000	7.8911457	13.8214995	0.6561760	4.5696673
##	139	7.0121630	1.3192133	7.6212306	4.0747195	1.4825385	9.3468864
##	140	0.5226584	2.7818633	0.0000000	1.1759397	3.4693130	5.0029860
##	141	12.0623504	0.0000000	9.0585495	10.3635052	3.6638797	5.4880265
##	142	15.8367727	0.0000000	7.3834520	3.3804940	2.9952312	10.7069421
##	143	1.9144880	0.4443490	2.0860704	7.5053114	0.7834986	5.2535053
##	144	11.9011237	1.4865599	6.0613572	6.6777084	5.1575491	2.7776196
##	145	8.1652924	0.0000000	8.4763234	9.2556478	3.3127087	11.8969477
##	146	3.2109499	0.0000000	8.9861686	1.5268200	0.0000000	5.7336445
##	147	2.9034240	0.7959331	1.6818990	3.1259486	2.9308509	3.2427549
##	148	13.8359178	0.0000000	4.2933263	6.4301866	0.0000000	8.9977556
##	149	4.1784119	3.1401406	1.9918982	6.8205785	0.0000000	1.9918982
##	150	4.7391460	0.0000000	7.3335561	13.8747631	0.5465611	8.2913941
##	151	5.5428152	1.8206487	3.9946702	3.1038501	5.2078772	5.5259467
##	152	11.5293362	1.1670367	7.8976773	2.3650206	0.0000000	3.9570417
##	153	5.8584237	0.0000000	4.2517872	7.4916335	0.0000000	5.7549009
##	154	12.0320474	4.9828567	10.0606765	9.7069599	3.8153807	13.1483415
##	155	2.1092603	9.3528775	2.7474089	0.8610819	7.9357114	8.6948440
##	156	9.2976587	8.4145762	0.9973285	1.9959548	1.3186928	4.6672393
##		rs_EEF1A2	rs_SERPINA11	rs_LBP	rs_MMP1	rs_BPIL1	rs_MSLN
##	1	6.7156477	6.8287090	1.8360857	0.8928184	8.2310008	2.7157177
##	2	5.0026620	6.3105237	1.0590091	3.4264124	7.9710699	6.6379971
##	3	13.6278422	9.0417068	6.7326735	8.0263381	4.7137013	4.0324095
##	4	13.3952354	7.9722682	1.1442422	3.9183862	14.6273582	2.2112926
##	5	10.3523303	9.3238596	2.3109217	5.4525032	5.5410997	2.4217484

## 6	2.3644043	1.0266584	3.8039296	3.6335242	0.0000000	11.8562043
## 7	4.3960224	4.9399459	11.1113562	10.5291064	2.9894660	9.4340145
## 8	2.7145313	1.7799321	3.7568632	9.3245874	0.0000000	8.0052495
## 9	7.2348634	0.0000000	0.0000000	7.6807632	0.6035967	4.5765282
## 10	10.1072922	7.5886022	6.0215708	8.0048193	2.2224027	0.8598106
## 11	11.8493501	5.6963583	3.1746301	8.5940006	2.8119025	1.2253983
## 12	11.1137253	3.9842065	5.9918393	5.5070779	6.7514865	3.3067726
## 13	3.7003842	1.2537473	3.2183782	9.9013917	0.0000000	8.7349148
## 14	8.6063678	7.0915803	3.6315816	5.2680413	3.0656929	3.6315816
## 15	11.2034237	6.6226888	7.8093759	3.4600217	6.6639423	3.5507899
## 16	10.3252567	7.4773819	0.5474498	6.9458991	4.6167576	2.2301108
## 17	10.5641113	7.2863295	0.0000000	6.9433775	2.2517191	1.4180280
## 18	9.3154229	6.4414619	3.8822224	2.1493894	5.0967173	2.3785394
## 19	9.3340500	9.2097117	0.0000000	3.0789001	5.2787877	1.1017173
## 20	12.4329021	6.0805767	2.2437300	7.6136466	7.6030224	0.6551686
## 21	9.5815968	4.0300270	9.3857431	8.6746439	7.5597235	1.5935928
## 22	10.4947831	0.0000000	11.7648696	9.4779782	6.0003336	9.4348446
## 23	9.8029842	0.0000000	1.7460117	6.8913742	1.2705887	0.0000000
## 24	4.7872496	2.6263457	1.6860298	8.8128691	0.0000000	3.4567667
## 25	10.0588216	10.8443119	3.5004961	5.0963335	0.9762170	0.7179122
## 26	11.4899493	7.9623668	5.7401369	2.5990083	0.3405053	4.1942526
## 27	9.1074104	10.8521869	3.3681677	6.7533732	1.0538064	5.0721015
## 28	9.0484798	0.5002922	0.5002922	6.8401497	6.7485753	3.7479459
## 29	10.8210903	5.9300300	3.0413481	5.3917883	8.9037382	1.1410403
## 30	8.0865476	9.4614856	4.8695951	2.1188580	2.7164642	2.9424394
## 31	10.4281038	3.5999485	1.7587296	7.2095781	3.8978793	1.9188823
## 32	3.5701229	7.3681616	5.8714470	8.7811872	0.4339209	0.0000000
## 33	7.9902555	8.1660139	5.3954399	6.2294860	3.1363719	2.6584400
## 34	9.2547804	7.3679441	0.5238630	3.1507059	2.4271502	1.4601135
## 35	9.2806070	2.1020198	10.9630719	11.4070549	4.9712952	8.3977195
## 36	4.8266400	4.0727232	9.4625505	4.4568259	3.3800090	8.6549797
## 37	8.2583719	6.7458827	3.3276874	5.6705968	3.4463886	2.0047890

## 38	11.0514476	8.2262619	6.2553270	10.2378483	5.9086904	2.2194009
## 39	4.2470009	0.0000000	7.6577607	12.5316690	2.0254187	0.9088129
## 40	2.1802752	0.0000000	5.6007247	8.7760369	0.4017397	5.2574293
## 41	7.3474699	2.7158934	0.4088205	9.6877361	0.0000000	0.9876119
## 42	10.3693140	0.4589069	5.5218171	14.8621852	7.5595140	0.0000000
## 43	8.6374791	1.2249664	9.2206949	7.5701024	0.0000000	7.1394603
## 44	11.8660634	8.2065162	4.4554324	9.0628333	0.9542708	1.5236121
## 45	8.4184514	8.5388198	5.4894113	4.9204172	6.1847226	2.7774723
## 46	10.6405445	9.4319269	8.2689766	6.1051731	5.0485980	3.2859200
## 47	6.7469670	6.7347340	7.9505407	10.7320136	5.0061454	1.6397415
## 48	10.0248669	7.1464954	4.5024134	7.4693284	4.4461702	2.1591448
## 49	11.0691102	9.7217727	6.8689880	8.3368346	0.3614315	0.0000000
## 50	10.6457441	6.1671010	6.5459529	4.8749789	4.1755725	1.1942762
## 51	8.2016799	0.3971458	4.7874325	11.7316895	0.0000000	9.1052446
## 52	6.1308382	8.5042819	6.6830437	4.8659930	6.9261940	1.5158638
## 53	13.1094636	3.8857501	3.3945141	8.8922668	5.2755956	0.4093638
## 54	10.0210477	5.7978975	5.2970043	7.3870333	7.1041836	4.4780658
## 55	6.5731306	10.1618921	3.8792156	4.3278095	10.0356221	1.9933121
## 56	9.7816386	0.0000000	9.8620447	10.4259448	0.0000000	12.9399834
## 57	6.7046936	5.3223284	3.7700361	2.9750982	5.1273898	2.9072368
## 58	7.6293923	6.0589290	1.8329710	5.3363191	1.6970176	2.1775033
## 59	2.5865246	2.0838941	4.3531045	12.6642572	0.0000000	11.7634880
## 60	13.1265127	6.6895550	1.5300208	5.9404957	3.9092643	1.9879757
## 61	8.8144623	3.5043280	0.6858953	2.4764335	2.5532376	2.3093217
## 62	12.0294639	4.5020823	3.1234344	1.6215244	3.5823633	0.3748447
## 63	10.5080760	7.9043372	0.8579014	1.7812338	0.0000000	1.2351143
## 64	11.6085498	7.8519814	5.8705941	4.1333498	0.0000000	2.6732398
## 65	8.0567672	0.0000000	5.8418096	12.6220054	0.0000000	1.9065058
## 66	11.8258286	8.3681917	6.0730511	5.1398910	1.7935214	1.0678452
## 67	7.6278833	9.8962840	3.9077848	2.0007212	8.2249606	5.5452611
## 68	10.0436621	7.9844908	7.3602062	6.2052752	5.4467194	2.9714240
## 69	8.5449996	6.8640512	1.4913914	5.2701776	3.2293726	2.2778658

## 70	10.2201154	1.9093507	1.0240359	7.9075787	0.4270698	0.4270698
## 71	10.4315160	7.8241861	4.6334312	4.0772430	2.2477453	1.4669664
## 72	2.4775996	5.3435500	2.1464271	4.5289963	2.3754287	0.0000000
## 73	5.4930741	0.0000000	9.1584461	14.0348125	0.0000000	8.3012566
## 74	11.0304950	7.1651552	1.2953116	4.5660601	6.1924901	0.3683772
## 75	8.5309482	8.8506085	7.0628384	4.0492474	8.8555606	4.3480270
## 76	3.4345882	8.5809098	6.3264798	6.7822369	1.7068178	0.4619476
## 77	1.3377111	1.8261112	7.9299785	3.4832741	4.4512639	0.0000000
## 78	6.7381788	2.2269400	0.7392433	8.4556022	0.0000000	13.4605095
## 79	1.0221192	0.0000000	9.1379417	4.6568853	3.2090478	0.0000000
## 80	12.9344193	0.8579014	0.0000000	6.5918664	0.0000000	7.9181805
## 81	6.1350751	6.6515009	9.3343037	0.9824369	5.7726458	1.9735745
## 82	6.0270633	6.2132034	8.5917938	0.0000000	2.1992169	1.8852620
## 83	9.3896608	8.9169146	3.0298945	3.8618164	0.0000000	1.8697135
## 84	11.4181209	8.5958199	3.8656219	7.9404457	0.6061579	1.9531162
## 85	1.9131479	0.6353365	0.0000000	6.2681331	0.0000000	10.6302268
## 86	10.6174548	6.1587652	0.0000000	2.7520206	2.1511769	0.7556567
## 87	10.8114554	8.3553670	4.9575757	7.8435109	4.1312191	1.7282688
## 88	0.5818815	2.5771750	1.5787455	9.2374088	0.5818815	1.8007032
## 89	12.9882676	8.3454372	0.4998841	6.2232990	6.1325419	5.3922487
## 90	13.2802544	7.2111329	0.3257318	5.3222743	2.4749811	0.8154935
## 91	9.7915919	9.3647924	4.7450060	12.6654510	7.3397574	8.0096764
## 92	7.5743536	6.2827011	5.1330250	11.8856562	2.1008095	2.6049490
## 93	13.0444399	7.4072006	1.7535618	8.3678603	0.4209405	2.6046881
## 94	9.5368957	7.1407234	4.5803023	9.2325962	8.6308696	2.1500397
## 95	5.4343647	2.7650891	0.3517414	8.2886709	7.4346716	5.2788992
## 96	11.2440245	6.7744919	4.1502916	10.8300592	6.3906264	0.5270703
## 97	7.3334872	1.6291468	1.9965334	12.4587371	0.0000000	10.0977644
## 98	9.2571971	7.8525688	3.4161912	7.0211177	4.5940289	0.0000000
## 99	12.8441231	8.8149109	3.8742953	9.8853674	6.5366870	1.5393822
## 100	11.2912851	7.2036994	0.9873936	5.5451035	3.8832982	2.3017340
## 101	2.9072753	7.3987463	1.6232114	7.1651361	12.2881509	8.8201001

##	102	12.4868853	4.3362834	0.0000000	7.2798427	8.1967251	0.8479969
##	103	11.7425008	8.9399608	0.8312287	4.5763468	7.9497322	3.1362242
##	104	11.1963241	8.4679682	5.6582715	9.5434926	8.3064072	0.4716557
##	105	12.6270758	3.2787431	0.5691022	6.7789169	2.4202398	1.9641029
##	106	12.2594330	9.1848330	1.1699891	6.8226830	4.6831013	4.6111311
##	107	11.8539456	11.2755791	2.4173260	5.4963761	5.2580214	4.7767567
##	108	13.2467792	2.4963856	2.3398215	7.0429387	3.5881449	1.7317915
##	109	6.1843378	3.7989837	8.2664980	10.2472025	2.6658021	3.9312576
##	110	13.6758279	7.0488018	0.7357821	11.5159355	7.4969792	1.8723560
##	111	11.5290961	5.7113820	1.9468431	3.9029804	3.1589025	0.7088494
##	112	9.7004229	9.5449971	2.8575830	7.6203826	1.1696685	0.0000000
##	113	9.7976986	7.7743476	2.7288565	12.9588418	2.8940417	4.9614752
##	114	9.7418736	5.7702318	3.5421218	6.8679829	2.9365155	3.5421218
##	115	4.2492026	0.0000000	11.0525543	11.2575541	2.2026998	0.0000000
##	116	6.2676182	2.5596386	2.1985256	5.0997076	0.7248249	4.5952828
##	117	13.0590352	6.6876318	0.7944367	8.0861182	6.5474144	3.3648946
##	118	7.6986755	2.4255399	1.1694120	13.1726392	11.2542013	4.3914584
##	119	11.1375372	8.7831443	6.3788913	9.1046417	6.6340661	4.2337884
##	120	10.5055683	9.3722082	0.0000000	8.0193177	10.7375978	0.0000000
##	121	8.8638285	4.1136755	7.3425627	8.2334025	3.3308595	0.0000000
##	122	11.0543942	8.6305340	10.4091025	3.6828317	0.4311415	0.0000000
##	123	9.2034965	9.2104670	4.2632523	5.6096161	5.3055073	1.4774701
##	124	5.4646323	4.8659386	5.9873800	1.9087361	5.2493316	3.6589541
##	125	8.2991018	3.3520664	3.4075567	11.0506270	7.5237156	1.4865599
##	126	12.5249457	0.5077185	1.6364506	1.1797658	0.0000000	2.8732423
##	127	9.1064090	8.3739740	3.3061601	5.1640501	0.0000000	0.7750927
##	128	12.3967599	7.5310001	2.8744429	11.1125504	6.7012538	0.6559929
##	129	3.2306027	5.4928082	1.9764736	8.5541364	2.2551986	0.0000000
##	130	6.5630468	0.0000000	9.2786755	9.8343638	5.0020859	1.6181447
##	131	12.1522959	0.4403144	0.7771988	2.0745054	6.5623126	0.0000000
##	132	7.2440774	7.6803947	0.0000000	3.3420142	5.1091056	2.4202129
##	133	8.9021472	4.9649346	3.3262785	9.3598945	0.8360857	2.1806571

## 134	9.4376168	8.2316719	6.9684272	6.1268593	5.0260785	2.1072861
## 135	7.7254610	10.0284749	5.2706485	8.0321918	8.4030610	1.6507646
## 136	12.4807487	10.8784903	5.9272944	9.2911269	3.4932374	1.4383461
## 137	13.3044792	8.4150492	2.0535632	10.2603200	6.0623441	0.4330663
## 138	2.9302642	0.0000000	0.3650206	9.9319392	0.0000000	2.7567458
## 139	8.0919669	7.4541356	2.3748726	9.0781882	3.6626157	3.1818658
## 140	12.5268669	3.4693130	1.1759397	6.5185367	7.9136931	0.5056877
## 141	3.3588604	1.1425441	0.8521587	10.6311258	0.4881036	5.7370080
## 142	13.4797856	8.3881620	5.8363584	11.2941230	4.5646281	5.0629463
## 143	1.6617040	0.7834986	0.0000000	4.4057610	0.4443490	3.1593708
## 144	10.6708295	7.2727529	8.5780590	8.0548729	6.8110381	10.9580347
## 145	3.2702299	2.3321923	3.7436765	13.2543701	0.0000000	7.2180178
## 146	11.3271053	6.9293685	0.5562087	7.0158075	3.8719028	1.5268200
## 147	11.5598284	7.2610418	4.8929155	8.9819870	7.0687503	0.0000000
## 148	6.0405834	0.0000000	0.0000000	9.8826082	1.1378314	11.2553694
## 149	10.4962341	10.0070382	1.3154503	4.5670586	7.1654236	3.4164479
## 150	3.7967327	0.0000000	0.5465611	5.0944219	2.2280183	13.3451117
## 151	11.5539481	8.8827039	1.0092755	6.2228780	4.8252514	0.5912007
## 152	10.6133965	8.3924681	8.4972930	7.1042119	6.5092208	11.6071877
## 153	12.9584660	6.2747872	0.4689482	6.5537122	4.5875870	1.8829951
## 154	10.6917004	5.0538455	6.0319642	8.8888842	0.0000000	5.4718768
## 155	8.0556626	6.2344975	5.2891115	8.3496762	0.6269530	11.0475752
## 156	9.9818693	6.2425987	6.3783694	9.9246037	5.2985190	2.9022087
##	rs_A2ML1	rs_NLRP2	rs_PROL1	rs_PPP1R1B	rs_SLC5A8	rs_PTPRT
## 1	2.1463945	10.4487314	7.2378438	12.3443253	5.6141562	9.9658380
## 2	1.2895984	10.7806143	9.9447150	7.2198713	8.0260736	8.5018921
## 3	0.7921057	4.4004628	0.4497462	7.0872443	4.8295858	10.3519314
## 4	1.5931625	10.1047970	3.3616140	5.2974042	0.0000000	6.9917860
## 5	0.4815056	10.3675532	3.9319761	9.9172633	0.0000000	11.4060761
## 6	10.6854031	8.5565777	1.0266584	13.2025570	3.1342374	3.8039296
## 7	11.1639531	11.4358677	6.4365467	10.1550978	0.0000000	5.9436307
## 8	13.7596159	10.1404538	0.0000000	10.0185499	0.7617108	7.5091424

## 9	9.4138974	1.3553546	0.0000000	11.1618673	5.9370524	2.0416986
## 10	1.3948982	2.6545272	0.0000000	10.3037652	0.4930324	12.5988633
## 11	0.0000000	10.9766010	0.4164074	6.7422151	10.8233462	6.2081680
## 12	5.2076040	8.1841032	0.0000000	6.2871417	2.4456473	5.8414197
## 13	9.8930127	5.2093988	0.0000000	0.0000000	0.0000000	0.5474498
## 14	0.7400209	7.6199302	6.8943631	9.6413060	0.0000000	10.3322646
## 15	1.0509544	4.0324535	1.6525094	8.5414626	0.0000000	10.9989825
## 16	1.7256539	4.4440044	0.0000000	8.1861786	0.5474498	12.1081769
## 17	6.1544961	2.3731192	1.1726155	9.0090280	0.0000000	5.0885996
## 18	2.0195596	10.4692055	0.8186052	9.2096125	5.0967173	4.7932612
## 19	3.4631647	7.2315169	8.8219882	8.2184053	9.0052992	10.2491399
## 20	5.9390737	3.7396429	0.8970080	1.5906260	7.1124510	4.1194973
## 21	10.1053786	4.6092999	0.4891319	14.7574050	9.1732506	9.3397563
## 22	2.4674099	10.6011267	0.0000000	11.8673455	1.4045762	3.3885753
## 23	2.3889610	10.7945474	0.0000000	11.6383526	1.5278210	4.7990510
## 24	0.7984238	12.1980882	3.0040879	9.7818841	0.4537546	5.1141671
## 25	3.1796066	3.1796066	0.0000000	11.0804422	6.0819765	7.4626986
## 26	1.0461418	9.3563096	0.0000000	9.8543635	0.0000000	8.2729288
## 27	2.4071352	3.9732347	1.6563133	9.9578911	0.4422269	10.9639171
## 28	3.8756621	4.4685768	2.7661923	7.7966704	4.1695082	11.9964643
## 29	0.0000000	9.2788975	1.7701525	6.9145502	10.5991512	9.4340243
## 30	2.2372884	6.3175790	8.8885195	10.1942815	0.0000000	11.1929790
## 31	6.4267512	10.5543100	0.0000000	9.9011473	1.1322478	9.6687806
## 32	1.0374525	3.3886993	4.6559528	6.3335865	6.6175483	10.3932399
## 33	2.1834230	9.7290765	4.3055620	9.5524989	0.0000000	11.4594779
## 34	0.9074291	3.1507059	4.6230884	11.8629203	3.0777728	12.3625806
## 35	7.1960119	9.0570446	0.0000000	14.2974120	0.0000000	10.9960119
## 36	10.0714157	6.3920735	4.5119613	8.1463024	0.5137939	6.3548576
## 37	2.0047890	9.2681520	6.8137017	10.9730085	0.8960781	11.2197652
## 38	3.9918075	5.7290687	0.0000000	5.8675753	0.0000000	9.5357598
## 39	4.2132773	9.1954008	0.0000000	4.0698912	0.9088129	1.8609231
## 40	9.7674967	10.0132308	0.0000000	6.9982689	0.7157177	7.8791249

## 41	8.5156975	8.2326488	2.9783055	14.2499954	2.3948982	3.2996110
## 42	7.2294495	2.2465297	0.0000000	15.3699040	0.0000000	5.3066013
## 43	8.4570669	6.7785095	0.0000000	10.8838209	2.7646434	2.3255303
## 44	0.3923174	12.3650852	7.2768177	7.5775406	3.8827506	8.2967419
## 45	1.9739051	9.8492880	0.5733745	8.7015647	7.6447324	10.4245368
## 46	2.2163928	9.1984124	5.9690008	11.1137478	6.7772843	10.0235420
## 47	0.6822137	9.4009439	2.1128002	10.1329185	0.0000000	9.9488103
## 48	7.9708169	4.9014510	3.5469809	11.2707912	2.3346255	9.5935314
## 49	1.0969365	9.4035506	0.0000000	5.0270611	2.3179697	12.6753282
## 50	1.7024802	5.0534893	2.7650255	6.2730421	2.9567630	10.3460569
## 51	5.3988771	5.3094854	0.3971458	3.5574223	1.3697736	5.1121496
## 52	0.3399355	7.1396598	3.3266668	7.6590383	8.4603416	10.5084210
## 53	2.9801899	10.4126758	7.0964421	4.7507619	1.2095158	9.7422341
## 54	7.4292184	12.2493388	0.0000000	7.8532715	0.0000000	12.2350769
## 55	2.0975097	10.5151409	4.0447351	5.3132350	2.9740704	11.4858416
## 56	10.4667473	11.5545487	0.0000000	14.6427474	0.4924172	1.1508846
## 57	4.8486680	4.1089091	7.7759263	10.7647740	0.4448791	11.2118920
## 58	1.1898562	9.3952756	7.6153199	10.2862084	1.1898562	10.1718757
## 59	12.0564479	6.2719298	0.0000000	4.9422471	1.3059705	1.6142387
## 60	5.9019722	3.7448500	0.3444877	4.9258998	0.0000000	5.0248294
## 61	0.6858953	0.9358369	5.6350317	10.0815547	0.0000000	8.0835213
## 62	1.1288873	3.7186685	4.7764988	4.5757359	0.0000000	6.3628135
## 63	0.0000000	4.0147927	0.0000000	4.4674425	0.0000000	11.1710432
## 64	0.4994760	6.1814266	4.5701897	9.9636440	3.2133006	11.2565588
## 65	13.9441233	3.7990977	0.0000000	12.8570716	0.0000000	1.6777112
## 66	0.0000000	10.8491276	4.8000457	8.2445793	12.5475900	11.3268388
## 67	2.0007212	9.5720813	5.6447994	9.1319598	2.8753083	10.0728704
## 68	1.3534927	8.7972413	6.0648591	8.4331472	2.9714240	9.8418293
## 69	1.3702201	8.6649496	11.4347377	8.7561757	5.2786167	9.6318064
## 70	1.6169693	6.8286620	0.0000000	9.1648541	0.0000000	4.0745996
## 71	1.0723116	4.1144586	0.7326599	4.8252209	10.9211148	12.1448397
## 72	0.8168864	5.6253436	2.2654669	11.8260937	0.0000000	4.6211786

## 73	9.3986655	6.9372914	0.0000000	6.7839006	0.5994130	3.4984168
## 74	0.0000000	10.0479304	1.1133671	5.5621752	0.3683772	12.7846890
## 75	4.1558625	9.3615609	8.6622304	10.8758224	3.3513880	10.3104866
## 76	0.4619476	5.4352319	4.0086124	4.1685377	0.0000000	5.4477610
## 77	4.5796870	4.2727623	2.6068212	12.0852054	0.0000000	6.3657345
## 78	11.4450917	1.0028825	0.0000000	11.5549233	4.0643310	5.8801541
## 79	3.4321310	1.6144272	0.0000000	11.2784435	0.0000000	7.5594069
## 80	10.9346727	11.4936065	0.0000000	10.2078437	2.2190601	1.3922625
## 81	2.2937236	4.3239465	3.3603783	11.5158919	1.3008266	8.4323590
## 82	3.4434475	5.0971304	3.9419608	11.5224478	0.9245560	9.1816582
## 83	1.5151069	9.9869855	9.2904011	10.1478765	5.8264798	10.5609914
## 84	2.0472592	4.2882035	0.0000000	12.1780106	0.6061579	10.0178804
## 85	9.4643297	4.7100019	4.5991095	7.5374949	0.0000000	2.2847510
## 86	0.9395275	9.1520848	0.0000000	1.9082749	0.0000000	4.9354928
## 87	0.4119685	10.5322014	0.0000000	7.5875278	0.0000000	10.9393272
## 88	1.9929859	4.0356151	0.0000000	1.3163196	0.0000000	4.3130499
## 89	0.8704239	10.8233302	0.0000000	13.1011554	0.4998841	5.0929558
## 90	0.5912964	9.3626814	0.0000000	2.0142482	0.0000000	9.1024141
## 91	4.8017484	4.9925600	0.0000000	10.9006560	0.0000000	10.0476259
## 92	5.6277527	4.3741214	0.0000000	6.3155717	8.0839308	10.7468538
## 93	0.0000000	11.1687090	0.0000000	2.8949147	0.0000000	8.4609739
## 94	5.8441596	2.7507566	2.0537717	7.7232527	1.4431823	10.0314375
## 95	1.2512646	3.0318186	0.0000000	7.2507570	0.8705028	10.5386533
## 96	1.6802343	9.9642042	0.0000000	4.0385942	0.0000000	5.1090847
## 97	9.8792608	4.9773898	0.0000000	12.9488785	1.6291468	3.3177816
## 98	0.4281424	4.0182692	0.0000000	7.8782214	0.7579620	7.0552521
## 99	1.8246864	5.1029856	0.0000000	6.8425791	0.0000000	1.6890755
## 100	0.5765705	3.1474695	1.5681294	4.6481375	1.3067872	12.5734652
## 101	6.4443656	3.9601781	1.0287813	12.7774662	2.2931350	9.7486923
## 102	0.0000000	6.5453506	0.0000000	11.6538303	4.8777442	10.9441264
## 103	1.0278618	10.7628997	0.0000000	1.0278618	6.8195162	8.6907237
## 104	1.5527213	1.8902910	0.4716557	9.9757014	0.0000000	10.5331431

## 105	0.3124328	0.5691022	0.0000000	0.7869309	0.0000000	4.7219140
## 106	1.5236121	10.2357529	0.7004397	7.3886674	1.1699891	12.1670603
## 107	0.7854250	10.0592140	0.0000000	9.4460320	0.0000000	12.3169074
## 108	2.1641426	9.9379706	1.1114988	3.8427576	0.9034240	13.6273588
## 109	4.6975014	7.3812834	5.8020510	7.9055639	0.0000000	6.0741864
## 110	3.5416883	8.7893719	0.0000000	12.1207007	0.0000000	6.3951828
## 111	6.9553175	4.8696740	0.0000000	12.1418146	4.3244866	5.6212724
## 112	1.1696685	4.1761632	0.8742855	8.3990066	0.0000000	10.6465582
## 113	6.6250966	10.6142921	0.0000000	6.0386249	0.0000000	8.1295463
## 114	2.5005216	1.2210109	0.0000000	11.3424491	0.0000000	11.2643850
## 115	11.0927807	10.1041078	0.0000000	4.0543797	0.6786128	6.4005004
## 116	0.0000000	10.1630979	0.0000000	10.2359673	5.7860082	9.4661097
## 117	0.7944367	8.9419869	2.4346683	12.0113304	0.3159140	12.8947586
## 118	5.3784978	7.5812450	0.0000000	10.6182875	1.8066953	6.0839196
## 119	0.4250295	4.7198296	1.0199154	9.3240916	8.2341468	12.5979371
## 120	0.8467942	8.4109452	0.0000000	7.0612643	0.0000000	10.2141384
## 121	3.7261555	9.0651802	2.6864333	7.0634965	7.7009141	7.4770588
## 122	1.6275135	3.2264006	2.4667315	7.9127720	9.5517986	9.7723850
## 123	5.3184723	10.0517646	0.4403144	6.9432955	0.0000000	11.2084218
## 124	6.8008857	9.8196410	2.8929544	11.7758830	3.8849983	2.7688618
## 125	1.3795655	1.8492387	0.0000000	11.9128991	4.3521441	8.7771741
## 126	1.1797658	3.2381907	1.1797658	9.1419962	0.0000000	5.8670514
## 127	1.0475384	4.2849434	0.0000000	4.7717852	0.7750927	8.0742271
## 128	2.4109109	0.8980922	0.0000000	4.7653491	0.0000000	10.4066931
## 129	6.0715546	9.9012235	0.5051796	1.8139351	6.9428124	5.1450742
## 130	9.5100487	6.3671649	0.0000000	5.7980868	5.4474767	7.3400869
## 131	0.7771988	10.1938155	0.0000000	1.0501186	0.0000000	1.8066128
## 132	1.4547023	3.6726064	2.4202129	7.6242150	1.4547023	8.2599419
## 133	9.0569243	11.5489609	0.0000000	7.7427608	0.0000000	5.3592084
## 134	4.8264214	10.7622991	1.8903299	11.9453884	0.3793992	6.3926609
## 135	2.9496843	8.7833941	1.7847971	6.6577743	0.3848235	10.4289468
## 136	0.0000000	3.3187796	4.0719943	6.0346889	0.0000000	9.7451766

## 137	1.2633950	8.7666077	4.0666317	10.4760569	0.0000000	8.2406511
## 138	6.8493788	10.7450287	0.0000000	13.5579110	6.4914058	5.3583611
## 139	5.0312584	4.4551365	0.0000000	2.5323170	0.0000000	1.4825385
## 140	3.9720952	3.3555661	0.0000000	1.1759397	3.6729684	9.4769222
## 141	6.6031189	4.6756579	1.1425441	12.1761144	11.3117840	2.9715528
## 142	5.8797205	9.7595016	0.0000000	6.7831449	5.2856205	4.3836836
## 143	6.6255174	9.1687220	10.4169587	7.6980379	1.0579701	3.8423956
## 144	1.2337040	4.8547039	0.0000000	10.2845079	0.0000000	8.2078001
## 145	7.4233630	8.7334154	0.0000000	9.4164370	0.8990209	1.7251304
## 146	0.9565771	9.7683820	0.0000000	6.4206508	0.0000000	8.5667200
## 147	0.0000000	11.1264821	0.0000000	6.2772800	5.6636776	9.8100247
## 148	12.3725715	2.2020729	0.0000000	9.4567255	3.2331825	0.6782522
## 149	0.8027309	9.9897142	0.0000000	10.1617685	3.0779095	9.6059678
## 150	2.6009358	2.0787123	9.1497974	13.7276287	11.4776369	2.4870232
## 151	1.3330802	9.4866462	3.2260152	9.1542338	2.6594679	9.4993217
## 152	0.0000000	3.7938959	0.0000000	15.8846664	6.8835658	7.5436281
## 153	2.8369340	1.3426685	0.0000000	11.8868693	1.1058122	4.4923275
## 154	10.8955656	8.8869412	2.5322421	11.6347872	2.1727435	10.3901569
## 155	0.0000000	10.4380756	3.1077046	9.0268415	0.0000000	8.1006970
## 156	2.8027309	5.7361692	0.0000000	9.9074949	0.0000000	10.3944160
##	rs_CA9	rs_NXPH1	rs_MUC15	rs_CALML3	rs_PPP2R2C	rs_CNTNAP2
## 1	0.58611620	3.4959126	6.8662775	9.5918927	9.8733189	9.8857853
## 2	4.63352421	2.7609448	5.0026620	8.9619367	2.2052361	9.3442766
## 3	0.00000000	1.6757256	4.1559678	8.6716023	10.5623484	8.6520573
## 4	0.00000000	10.6231478	2.8179097	5.4780108	7.9155436	12.5862918
## 5	2.21197782	1.1300083	0.4815056	6.8762935	9.6469424	10.7325706
## 6	8.29803873	0.0000000	7.9505227	9.6592335	2.7453234	4.3356333
## 7	2.07601174	0.0000000	4.7041803	7.6326659	3.8577720	3.8577720
## 8	7.99700612	0.0000000	9.5427402	2.7889989	10.0064074	7.8957601
## 9	9.35206705	0.0000000	5.0308834	2.6312207	8.0180076	7.5980696
## 10	1.43674818	5.5927590	0.0000000	0.4930324	1.7842946	10.5486702
## 11	0.41640741	0.0000000	3.4642500	4.6680567	10.1242360	9.4238473

## 12	0.00000000	0.4548076	2.3440047	5.8599522	8.7401595	10.6712984
## 13	4.21598139	0.0000000	8.2984480	2.7088935	3.5941305	3.2183782
## 14	5.28946194	3.3762070	7.4255222	9.3762098	9.3921274	11.6717154
## 15	1.32642230	0.4407396	0.4407396	4.8153192	9.3644652	7.2080031
## 16	3.30901607	0.0000000	1.2536263	0.5474498	6.9350578	3.0675527
## 17	2.88354262	11.0997172	4.1130587	10.1802584	9.5749827	6.4791449
## 18	0.00000000	0.0000000	1.3375969	4.5562884	10.9375873	7.1251810
## 19	2.60613423	0.0000000	6.1244646	9.7278779	5.5049921	9.5644273
## 20	1.97401528	0.8970080	1.5906260	3.1308815	11.0595827	7.3004139
## 21	6.23119622	9.7787489	5.7186301	6.8278470	9.3840012	7.3111080
## 22	10.17150346	0.0000000	8.2446321	0.8668684	4.2571540	5.7473417
## 23	7.61050592	13.8948697	0.5566992	3.5057639	10.9581639	14.5542840
## 24	5.75477262	0.0000000	4.1701173	5.7310773	1.3094673	2.5372961
## 25	1.62124310	0.0000000	0.7179122	4.9384317	10.8516306	10.2981782
## 26	0.62339868	3.3294681	4.3149502	5.3832135	3.1245267	9.2044208
## 27	0.44222695	3.3171593	7.3079794	9.5670668	3.0929347	10.7264980
## 28	0.00000000	11.0135468	0.0000000	0.5002922	10.0751050	10.3136878
## 29	1.23456263	3.5666812	1.8922744	3.6382592	4.1599520	11.0697013
## 30	0.00000000	4.4217484	7.9631111	9.5684175	6.8035964	5.2951757
## 31	2.35512906	0.0000000	4.0783793	10.3629994	9.9136822	9.6814020
## 32	2.29018846	2.5637195	9.5442188	5.4297934	1.4617381	7.5082115
## 33	0.60814687	8.7349795	7.4388875	7.4121328	2.2917803	10.6521442
## 34	0.00000000	7.7311228	5.8989097	7.1361432	7.6070195	8.2643483
## 35	0.92888193	7.6256168	8.6432397	1.3007680	8.6232988	10.5735228
## 36	7.01050013	0.0000000	6.1177345	6.6473246	2.7138937	5.6977627
## 37	0.57598995	2.5198690	6.4084266	8.2151384	8.2684774	12.4163612
## 38	3.37909413	0.6439485	8.5949762	0.8827604	9.6406601	10.6980844
## 39	1.51167044	4.9668088	7.9567647	1.8609231	1.8609231	5.9435533
## 40	9.52649865	0.0000000	10.1269788	3.4105989	8.1958820	8.5250243
## 41	10.74475867	0.9876119	5.7657098	2.7861154	5.2856648	3.4368814
## 42	0.00000000	2.6423550	5.3336527	1.3208312	9.2980000	6.5060306
## 43	10.48465858	0.0000000	11.5727140	11.5986630	8.4896413	9.4027573

## 44	0.95427077	0.0000000	2.9773715	6.7449455	9.3686191	7.8654586
## 45	0.00000000	0.9826560	1.3010608	6.3578176	9.6401981	6.6378522
## 46	5.55894412	0.0000000	3.7442472	11.1051741	10.5430497	10.2866825
## 47	4.49355768	3.4159614	1.3285493	3.0971725	1.3285493	6.6504185
## 48	1.72726701	0.0000000	7.1376439	9.5039585	10.0264660	9.7964923
## 49	3.91649575	0.0000000	0.3614315	3.4169883	1.0969365	7.3362146
## 50	5.23840856	0.0000000	2.9567630	6.2968795	9.5089729	4.2749325
## 51	5.06144356	0.3971458	6.1177179	6.0911413	8.5709092	5.7778326
## 52	0.34891224	0.0000000	2.5964104	5.4343714	3.7816115	8.4668563
## 53	0.00000000	8.0928961	1.9830209	6.1870987	9.2834340	11.3698411
## 54	4.10690103	1.0456526	6.6384403	5.4570295	8.9723653	11.5537410
## 55	0.37651266	0.3765127	3.6922152	6.9418563	6.9866373	4.3906746
## 56	11.05580749	0.4924172	8.9826571	4.4156032	10.0553630	1.3935809
## 57	0.00000000	11.1421261	8.1525521	11.9018524	4.3579390	6.0289227
## 58	3.37831740	2.0715224	7.5649566	8.9180943	3.5324416	9.0381116
## 59	8.54331994	0.0000000	9.4785480	3.5724532	10.8805000	8.6848541
## 60	0.00000000	1.0557510	1.9879757	4.8869793	10.9568477	9.9873949
## 61	0.38327574	13.5467268	5.3312896	7.4342504	3.1057786	11.1668570
## 62	0.00000000	13.7657475	5.1939964	5.0463645	9.4641146	11.1902764
## 63	0.00000000	0.0000000	2.0873271	6.9692150	7.9974776	11.3581351
## 64	0.49947600	0.0000000	5.5774953	6.8633488	8.7329923	3.0784732
## 65	7.97489350	0.0000000	4.1059127	4.0107082	9.9352787	6.5866702
## 66	6.09085343	0.0000000	2.2740827	3.1166808	10.3238571	11.6452948
## 67	0.00000000	0.4153260	7.9667425	9.7407416	4.4603494	3.1707743
## 68	0.00000000	3.5712885	4.6410257	7.4243108	9.8471985	5.6921314
## 69	0.74785998	7.0870788	8.2218495	9.2790176	5.2184673	10.3796982
## 70	3.71457524	5.4951131	7.1348462	1.0240359	8.4370408	5.9377069
## 71	0.00000000	9.2107461	1.3470420	5.7352974	8.6899917	8.6181201
## 72	1.15950002	3.4463886	3.9514666	5.1089844	1.3352546	4.8668931
## 73	0.82586702	0.0000000	6.7973256	0.0000000	8.9200226	5.8102374
## 74	0.90504276	0.6614760	1.9666889	3.0481839	2.3425832	5.4418353
## 75	2.51777960	0.0000000	7.9448397	9.7230243	3.9341107	2.6773504

## 76	8.24602038	0.0000000	3.5782625	4.6087146	1.7068178	7.3874211
## 77	1.33771109	0.0000000	3.1106138	7.6735338	4.5486401	2.6068212
## 78	9.08416262	0.0000000	4.9284224	3.5496076	7.9618930	3.8798626
## 79	0.00000000	0.0000000	0.0000000	7.7196886	4.3271268	1.6144272
## 80	9.13714357	0.8579014	8.0345035	4.8794656	9.1956328	2.4511188
## 81	0.01406958	4.9200026	7.7881774	6.6929098	5.7202018	6.4162723
## 82	1.48341596	0.0000000	8.7109827	7.2209239	4.0631750	0.9245560
## 83	0.33970751	5.1063651	6.0040564	6.7546430	10.6651375	5.6772996
## 84	3.56313372	1.3598585	3.0549700	6.6127476	9.0758596	8.9259359
## 85	7.36905288	0.0000000	9.2044122	7.8681546	9.4660236	5.9637238
## 86	0.00000000	3.2464233	0.0000000	0.0000000	1.5037049	1.8172549
## 87	0.00000000	0.0000000	0.0000000	0.7319652	9.2299512	10.6320155
## 88	0.00000000	0.0000000	6.8109148	0.5818815	1.3163196	5.7721839
## 89	5.48280957	0.0000000	1.8010345	4.2646340	8.4240760	5.4480585
## 90	0.00000000	2.0142482	8.5414997	1.8209346	5.6110366	7.5580265
## 91	7.51270649	1.4817123	0.0000000	0.4421208	8.9272956	9.5452456
## 92	0.00000000	8.9452267	6.0807983	2.3747891	9.9225808	10.1138169
## 93	2.18405808	0.4209405	0.4209405	5.3806152	1.6007455	9.9469397
## 94	1.98753916	3.0789343	7.9789358	3.1735912	9.9325363	10.7088937
## 95	1.93315714	2.1087252	9.3060031	5.5663098	2.9309644	12.0688325
## 96	0.00000000	7.2955568	1.2159270	7.0726696	9.1307906	8.4809933
## 97	4.45719371	0.0000000	5.0178996	1.8841681	9.2092318	4.9773898
## 98	0.75796197	3.6326056	2.0391033	5.0947470	1.9123816	9.9572314
## 99	3.62808532	3.1088422	0.9659874	2.1685458	4.4153801	8.9554517
## 100	2.28291420	0.0000000	0.5765705	5.7300693	2.4387719	5.4510165
## 101	6.26478787	9.3917617	8.4598631	2.8035990	2.0429595	9.6220447
## 102	5.78732798	4.8176233	0.0000000	0.4854268	10.7106343	10.5843988
## 103	0.60359667	2.6903053	0.0000000	0.3330802	6.7199446	0.8312287
## 104	6.80970254	9.8681717	1.8902910	6.8514192	2.8455503	9.7205786
## 105	1.17159115	0.0000000	0.0000000	0.0000000	2.2835959	4.9646805
## 106	5.74704360	2.6583029	4.5925647	6.6716529	9.2778358	9.2147351
## 107	1.30812784	1.6648924	0.7854250	0.0000000	7.8135420	9.6765520

## 108	0.66019846	1.9641029	2.7662559	4.1325522	10.9200534	8.6820138
## 109	0.00000000	0.0000000	5.0476605	7.8114254	7.5858083	8.5446728
## 110	1.54897907	11.3535706	3.6977738	5.9820558	10.2798222	11.7153658
## 111	5.72658875	10.6718890	2.0609466	10.6662668	9.1901254	8.5858966
## 112	1.16966850	1.4147309	4.7455224	7.7955910	3.7544707	7.9614833
## 113	0.00000000	5.0690748	8.0703491	4.7621309	9.0535401	0.0000000
## 114	3.86335372	10.7061081	0.0000000	0.4144603	7.4921328	8.6159893
## 115	10.31423236	0.0000000	8.4803140	4.3375612	6.9273347	9.6520370
## 116	7.97313711	0.0000000	8.6242585	2.3903375	3.3874728	6.2241908
## 117	0.00000000	8.1157044	3.4958870	4.7909284	3.1024398	11.0780389
## 118	4.72262449	8.0911984	3.1890180	7.8112796	9.5529691	7.6635503
## 119	2.86659152	6.7940493	0.7529198	6.5255881	8.1548596	11.0954648
## 120	0.34050530	1.0459322	0.3405053	0.0000000	0.3405053	3.9423456
## 121	0.53913399	2.8764678	6.6007752	8.8525595	1.7073039	9.1789474
## 122	3.26402592	2.2724114	2.9938736	6.0472897	10.8185052	7.0889620
## 123	2.39355349	3.2030758	2.1919416	3.6756353	2.0746082	9.8934843
## 124	0.38526536	10.6413886	4.3851480	2.8929544	8.8333885	10.4710926
## 125	2.97566687	0.6787029	6.5593694	4.9835318	4.3235718	8.0537505
## 126	0.50771854	1.8199951	9.3239147	0.8825257	0.0000000	8.2867606
## 127	0.00000000	0.0000000	2.8168250	1.0475384	9.0638990	9.5147257
## 128	4.15055968	7.8995587	1.5922059	5.5998861	10.2818150	7.2188480
## 129	0.00000000	1.8139351	0.0000000	0.0000000	9.9978720	8.5621611
## 130	1.61814467	3.0066930	4.0643742	0.0000000	7.6053217	11.3662851
## 131	0.00000000	0.0000000	0.0000000	0.0000000	0.4403144	1.6513617
## 132	0.54300088	3.8999297	8.9614074	3.2125226	8.2141578	11.3240254
## 133	0.47778093	3.1460686	3.5361400	5.5159679	9.6159369	9.9558643
## 134	0.37939916	5.8239404	4.2964134	6.5812172	8.5445271	9.6550546
## 135	10.44714172	3.1115155	7.3784492	6.4464581	1.3383388	6.9351014
## 136	1.77391195	0.5134907	2.7132339	6.4489290	9.7946292	3.7439996
## 137	6.59382732	4.6530428	4.0361692	10.8457140	9.6254632	10.2019042
## 138	2.92097923	0.0000000	3.3112125	3.9173172	8.8951014	3.4695865
## 139	7.08902880	3.9122762	7.6644060	1.4825385	2.9220836	11.0038594

## 140	1.22860323	5.0766275	6.6925792	1.9777195	10.2793942	10.6672047
## 141	6.83532283	0.4881036	8.0503395	3.6638797	1.3842156	3.4678533
## 142	7.09933624	1.6285870	4.7442795	2.6392785	9.8608983	8.8263349
## 143	3.35257493	1.6617040	9.4323932	3.2713809	4.6940444	7.4318795
## 144	6.78645914	0.0000000	2.4608736	1.2337040	7.7208065	6.4212873
## 145	7.45520720	0.8990209	4.9798607	4.4240487	4.8845247	2.0603587
## 146	5.98617198	0.0000000	1.7449361	7.4359144	5.1430995	8.4666891
## 147	1.72111013	0.0000000	0.0000000	1.3058538	8.8943088	10.4641507
## 148	10.72413710	0.0000000	3.7009723	10.2095426	8.2739047	9.4992262
## 149	0.00000000	0.0000000	3.1401406	12.0945954	8.9114106	11.3149067
## 150	7.71721990	0.0000000	6.8484114	4.0977456	1.2521128	2.7065085
## 151	0.89413869	8.9922181	6.3626259	6.5497400	9.0886441	8.1946667
## 152	0.50100595	6.7227474	7.6607319	1.1670367	9.2876833	10.5879392
## 153	5.79147289	8.3753045	9.5320019	6.2089015	8.8185953	10.9434781
## 154	9.35679769	0.3994446	6.8598640	7.0137939	5.1861321	1.5429514
## 155	8.24081518	0.0000000	1.7863036	3.9213982	11.5645759	5.8413241
## 156	9.33036725	0.5831339	0.9973285	3.6388848	8.4924669	10.2989556
##	rs_SLITRK6	rs_BEX1	rs_SCGB2A1	rs_KLHDC7A	rs_SLC6A4	rs_ORM1
## 1	10.158225	4.8503094	8.3475323	10.5089275	6.3719961	1.9995671
## 2	7.350121	3.1611460	6.3809857	4.5917871	0.7843365	0.0000000
## 3	8.103197	8.2438837	5.0366967	10.4977538	1.0686020	1.0686020
## 4	5.267495	0.4889263	10.3362612	2.4429966	0.4889263	0.8535167
## 5	5.565445	4.1080309	9.3345229	10.5044853	7.6170994	0.8418926
## 6	4.635691	3.3696200	6.9832068	2.3644043	3.2170446	7.0581151
## 7	5.142544	2.1605653	2.8420737	3.6069159	3.5605071	10.8310467
## 8	3.756863	2.8598106	4.5819839	2.7145313	1.7799321	1.7309225
## 9	5.683590	3.8587966	1.8470749	0.0000000	0.6035967	1.3553546
## 10	6.767721	2.2224027	2.2224027	8.5710066	7.9700794	0.4930324
## 11	3.419835	2.3261634	3.5073380	6.9000734	1.5885168	4.9279581
## 12	5.754946	2.7136298	1.3118518	3.5992345	0.0000000	1.0785415
## 13	2.899427	1.2537473	0.9433588	0.0000000	0.5474498	2.0824642
## 14	8.218766	3.4664444	9.8166706	8.2057244	3.6315816	3.7075579

## 15	10.990393	2.1931409	3.2593177	6.6434637	3.3631571	8.9103537
## 16	11.321836	0.0000000	5.2794824	4.0609034	9.9430821	5.5590849
## 17	5.034418	6.6629802	2.7766936	3.2266935	9.0195257	0.8766446
## 18	8.168676	4.8324546	2.9051583	10.4523985	3.0452158	2.5762077
## 19	11.629090	7.4763323	4.8039296	5.2573350	9.4222477	5.1796265
## 20	3.222573	7.3921285	2.7544600	5.2507456	8.1355179	7.0574817
## 21	3.244187	0.0000000	5.8953220	7.1645852	9.3952861	10.2289049
## 22	4.160783	2.7583245	0.4976379	3.8670464	0.4976379	12.4598464
## 23	1.746012	1.5278210	3.6748674	1.7460117	1.5278210	0.0000000
## 24	6.722489	1.6860298	1.0764907	0.0000000	0.7984238	0.4537546
## 25	12.933926	3.7281491	1.8397178	5.4766182	11.9490702	7.0816283
## 26	2.661043	1.7639214	3.7276373	10.1907625	8.5178945	0.0000000
## 27	14.281744	3.0309716	8.4152660	6.3959848	6.3523171	1.2837440
## 28	5.567573	1.6194130	0.5002922	12.1157933	5.0224832	0.8710551
## 29	5.879230	6.7546444	6.1418721	8.1511470	5.1438301	2.5414405
## 30	11.568934	3.5112403	7.9780680	10.1094949	2.7957877	2.9424394
## 31	5.052412	8.5395776	5.7400587	3.0271541	7.6065755	1.1322478
## 32	14.707542	0.0000000	13.7234009	6.7219386	3.2886391	0.7670615
## 33	6.651619	4.6075907	6.0788617	8.0141739	5.0391823	1.6440408
## 34	9.628045	4.5167338	6.9236579	10.7982873	9.7628401	3.4685963
## 35	5.145449	0.4498519	7.5202902	8.4560040	5.6127270	6.0788126
## 36	5.349854	2.3998820	3.0482187	4.6898694	1.1911204	7.9481511
## 37	12.281404	5.7419604	7.6052202	6.1531548	0.8960781	5.5564631
## 38	9.572469	0.6439485	5.4790656	5.9354621	1.8204036	8.4654856
## 39	7.691834	0.0000000	8.9716186	5.3548788	0.0000000	2.6472454
## 40	9.004288	4.0368813	6.7497394	3.4952091	1.3816710	6.7963343
## 41	10.381757	1.9814143	0.0000000	0.9876119	5.8252794	3.5216413
## 42	5.709056	0.4589069	9.6770390	6.7159098	2.2465297	4.8056330
## 43	5.124460	3.2434863	5.4962482	6.4288425	4.9892480	9.9108803
## 44	9.643518	0.0000000	2.4263453	4.4758437	4.2337270	3.2139382
## 45	9.198758	6.4001161	3.8255007	4.9204172	0.9826560	0.5733745
## 46	10.259896	10.2264672	3.7829956	5.2277834	11.0647215	8.8631539

## 47	8.971276	1.8955741	0.6822137	4.3889885	6.2644745	1.3285493
## 48	7.161128	2.6321984	8.5742321	7.5626637	4.3057225	8.2077401
## 49	12.529887	11.4064992	7.3463471	4.9225785	8.4195427	6.2884324
## 50	7.103969	1.7024802	4.9964068	7.4532632	2.2824398	4.7249176
## 51	6.325786	2.1652366	0.0000000	7.9439629	4.6845270	3.8387501
## 52	7.296612	1.0445340	5.3984735	8.1959494	4.9176322	2.3260483
## 53	6.923941	1.8580208	4.8025706	7.6662801	4.6221045	1.2095158
## 54	5.502900	7.1226644	5.4335370	5.8520663	10.5594873	6.2110511
## 55	4.719342	2.7997090	4.2843216	6.0701660	6.2784476	2.4521473
## 56	7.835550	0.4924172	0.8589358	0.0000000	1.9440338	6.4470667
## 57	7.710257	3.1019022	6.8652804	11.0610301	5.6052632	0.4448791
## 58	9.471467	4.1936141	5.1274393	8.7457933	6.7288633	2.5372961
## 59	5.074219	5.1238027	0.0000000	0.3723950	0.6681191	4.5105063
## 60	6.130202	0.8552722	4.9000698	2.4815573	1.5300208	4.8333911
## 61	7.899013	11.1263802	12.1562873	7.1144055	9.0221109	0.0000000
## 62	4.837661	1.4752406	2.4464415	8.4460440	2.3656925	0.3748447
## 63	4.852623	1.3922075	2.4863540	4.8794166	0.6244285	0.0000000
## 64	7.625889	0.8698714	4.6195891	8.8423686	8.1539213	3.7892911
## 65	7.442190	1.5480913	0.3503841	1.0701145	0.0000000	0.3503841
## 66	12.795024	7.2506272	4.9354220	11.2196708	0.6304987	7.2763608
## 67	9.933668	5.0883960	6.8040084	6.5297319	1.0005049	1.8751510
## 68	6.419640	8.4161697	5.8714617	9.6024843	9.4752318	4.1535460
## 69	9.549621	4.6954037	5.9039252	6.5556735	1.9795864	1.2379919
## 70	10.138239	1.0240359	4.5267512	3.7445486	1.7705331	0.4270698
## 71	3.296046	2.1071187	8.1806487	1.4669664	3.9594642	0.2875905
## 72	4.378650	2.9735194	2.1464271	9.7509155	1.0992279	0.0000000
## 73	3.994299	0.8258670	0.0000000	1.6136731	2.5590267	3.4311148
## 74	10.266726	1.6022193	1.4569113	6.3955410	0.6614760	0.6614760
## 75	9.175282	4.5175781	5.7296479	6.2703514	2.2658869	0.7092024
## 76	10.940837	1.3274574	1.8646517	9.1015913	6.4623468	2.8152270
## 77	4.516904	3.7791651	0.5937840	5.4179031	3.0229537	0.5937840
## 78	6.351487	1.4186757	6.5187885	3.9440057	5.3864661	5.4430529

## 79	3.432131	3.2090478	0.0000000	4.7972257	0.5997939	5.0649777
## 80	8.603387	1.7812758	4.0027025	5.4613583	1.5998414	2.0873610
## 81	8.397298	3.1385524	4.4257077	8.6806995	3.5525984	2.2937236
## 82	6.634283	2.3337958	8.4340385	6.1956350	2.7734478	0.5350576
## 83	10.310214	2.1541295	7.5081584	9.7172002	9.1531892	0.0000000
## 84	15.374243	4.2687937	11.1946459	6.5131654	5.7052840	6.5578313
## 85	7.122182	7.4282010	0.8717648	3.7193477	0.8717648	4.5316934
## 86	1.720103	12.6228669	4.4963026	12.4487000	9.0339069	0.0000000
## 87	4.047198	3.0479397	8.1322529	5.8866136	3.5735563	0.4119685
## 88	9.252763	4.2765339	0.9953036	6.3126978	6.6631695	2.8987888
## 89	7.333290	5.1613315	1.8010345	7.0698214	2.8503594	6.6553991
## 90	5.419404	11.1245420	3.4094860	6.2475364	3.6613164	0.8154935
## 91	5.471991	1.0535979	5.2588731	7.1597341	1.0535979	2.9657843
## 92	10.362154	3.2738441	4.6220167	5.2846067	7.3414895	1.9965334
## 93	9.798397	4.1922573	1.7535618	9.9533639	1.2359721	0.0000000
## 94	6.603999	2.4054478	5.1566595	10.2144478	2.8108955	0.0000000
## 95	8.959902	0.0000000	5.2372654	5.9286522	2.1087252	0.6343145
## 96	6.152052	1.6802343	2.4355486	1.2159270	1.4667054	0.5270703
## 97	3.273844	5.1206796	4.6043916	1.1350094	1.7622638	14.2594087
## 98	12.126250	5.2204074	5.6156046	9.6763238	9.0980158	3.7484076
## 99	12.728298	0.7098200	3.2114016	10.5418624	4.3494431	1.3723392
## 100	7.236972	2.9779027	4.1460523	8.7313262	9.4083329	3.1474695
## 101	11.529180	0.3335382	5.4393805	12.0414211	8.7521100	6.6224809
## 102	6.605850	6.7087390	4.5484366	13.4723101	1.1375035	0.0000000
## 103	9.067661	1.0278618	5.2033656	11.8401699	10.9814097	1.3552418
## 104	8.256195	0.0000000	4.2018769	10.6936837	10.1605968	7.6506353
## 105	5.152938	0.5691022	2.5450293	14.3289138	0.3124328	1.1433934
## 106	11.320138	7.2855141	3.6148158	5.2785610	9.8924657	3.0875647
## 107	13.434694	1.6648924	1.8207712	6.9627838	7.2739904	7.0870024
## 108	4.059113	7.4615859	6.8202530	4.6319191	1.1114988	5.2422862
## 109	5.391785	2.9415383	3.3088414	1.2243490	1.2243490	4.5406597
## 110	11.540795	10.1811688	6.1469057	5.5619645	8.1502576	2.4127002

## 111	6.338945	7.0166947	6.7831567	6.8873522	8.7232756	3.9332516
## 112	6.799375	11.7580849	2.3688801	9.5831027	8.0727999	0.0000000
## 113	9.418174	3.4128086	8.2808269	8.0331862	5.8198853	2.9700253
## 114	9.170029	0.9987732	6.7702093	10.7800511	1.2210109	2.5174017
## 115	6.167239	0.0000000	5.5435763	1.1382247	2.0010095	5.6160283
## 116	10.298245	2.2976023	1.3961047	5.4076621	3.3417581	1.6955039
## 117	9.313452	11.2322118	0.3159140	11.8409999	11.1189482	0.0000000
## 118	5.617501	0.0000000	11.6899699	2.7271581	1.1694120	6.9692115
## 119	12.568133	0.0000000	8.3340194	6.6340661	7.1337556	5.7017182
## 120	13.560911	0.0000000	10.3843953	2.8322622	2.9855733	3.6674494
## 121	6.607495	3.5136676	0.9306995	8.3661180	5.1654698	2.0606354
## 122	13.679881	1.0320303	5.7810160	6.9657347	5.7810160	4.4060944
## 123	11.750105	4.1517939	3.8642357	5.6816095	8.0869435	6.4608801
## 124	2.126643	8.3244470	6.6682326	10.5167187	8.5614724	0.8617966
## 125	3.407557	1.0008654	7.6656379	4.2188664	1.5861162	4.6909646
## 126	1.179766	10.4975430	3.3617403	9.6535380	1.6364506	0.0000000
## 127	10.784892	1.8030617	2.4914683	7.9696260	10.4590189	6.2145911
## 128	13.963485	10.2412156	3.8026379	5.7920250	2.1552635	3.0848637
## 129	4.117188	0.5051796	0.0000000	10.4372009	3.1646737	0.0000000
## 130	0.000000	2.1082233	7.5617340	0.4997821	0.0000000	5.4198422
## 131	1.651362	0.4403144	3.3106600	8.6832199	0.4403144	0.0000000
## 132	8.644289	4.0590783	9.3681395	10.2661287	4.4807175	0.0000000
## 133	9.226312	2.6097550	3.6756579	8.2924344	6.1151103	1.5671073
## 134	13.374543	6.2854781	4.2964134	8.5981430	2.7474089	7.7812305
## 135	10.694684	8.8306588	6.8762480	10.2236901	7.1583835	3.7255994
## 136	10.603172	6.7647164	6.9306415	6.8473869	1.9973647	0.0000000
## 137	11.810867	9.5937808	4.4827515	4.9593992	0.0000000	0.0000000
## 138	8.494381	3.3112125	3.6458630	2.6939441	8.0733699	1.9558335
## 139	8.962734	1.7623488	6.1913021	9.2078809	2.3748726	0.6763577
## 140	2.948040	0.0000000	5.1970909	5.2297379	0.5056877	0.0000000
## 141	4.886692	1.1425441	5.1708945	6.2302434	0.8521587	0.0000000
## 142	12.427866	4.0609553	6.8887980	6.2001630	2.2736651	7.4824111

## 143	8.195391	1.8174595	0.0000000	4.6940444	2.0860704	0.0000000
## 144	9.624733	3.0371713	8.0227418	3.5623279	0.0000000	9.6516511
## 145	6.547417	3.3539725	0.3654686	0.0000000	0.3654686	3.4711094
## 146	7.920640	4.7224551	1.5268200	9.2134987	2.6262055	4.5006045
## 147	9.097002	2.4374941	5.6741160	3.7564896	0.4521737	3.9748505
## 148	6.947771	2.9264929	0.0000000	0.0000000	1.7659590	5.3651361
## 149	12.010548	2.2393980	7.1351839	0.0000000	5.4772564	6.5780028
## 150	10.468091	0.0000000	8.8214707	0.0000000	0.0000000	0.9420077
## 151	7.213189	3.7985794	7.5459344	13.1235635	5.5880250	1.4393040
## 152	6.084086	0.5010060	9.8320176	5.4652170	7.9663428	8.1076711
## 153	4.098504	1.3426685	7.7858323	8.6605258	4.8974631	2.0259147
## 154	6.769957	4.7114619	1.8285503	4.8455503	2.8197908	0.0000000
## 155	9.437417	3.6975959	1.9976898	10.1429718	7.2379499	2.4922378
## 156	13.168434	0.9973285	10.5332777	3.6954594	1.8035164	9.8011557
##	rs_SCGB3A1	rs_C10orf82	rs_LRRC31	rs_HBA1	rs_RPS28	rs_PDZK1
## 1	5.6759062	8.1109452	7.9123265	1.0109946	10.5470184	8.8395395
## 2	0.4448791	5.6262785	7.9627399	1.8188915	8.2341842	2.4151637
## 3	1.5002922	6.3482944	3.2897017	6.7766567	4.2421528	8.7872055
## 4	2.4429966	5.2369556	6.5388764	5.1246590	8.6966835	7.8438853
## 5	3.6426669	8.2762794	1.3700527	1.0794976	2.6207272	9.7861608
## 6	12.8722686	0.0000000	3.1342374	5.0170177	4.4079101	4.6946741
## 7	5.6978377	2.3901724	1.7285301	1.4333334	9.8599515	3.0578661
## 8	1.6259250	2.0460020	0.0000000	3.0389629	9.6963649	3.2770028
## 9	3.2192150	0.0000000	0.0000000	1.0279325	10.6640110	2.6312207
## 10	2.3431520	10.1815471	0.4930324	0.9719573	9.7006591	5.9377540
## 11	8.5170378	2.7414670	0.0000000	3.8859550	9.1967612	10.2914681
## 12	3.2516888	6.7314983	0.8001648	4.3415233	1.5125809	7.4032064
## 13	0.9433588	0.5474498	0.0000000	0.0000000	2.2302645	2.7088935
## 14	4.3531115	7.4085488	1.2268168	8.3812821	9.7395906	7.8882860
## 15	8.4337807	7.5780700	1.9480027	7.1583471	3.8656714	4.4647205
## 16	9.0506736	0.0000000	5.4414503	5.5160877	10.2528984	10.7624158
## 17	2.4850919	9.2370299	0.0000000	1.8346708	7.9051607	3.1607750

## 18	2.8296872	8.0655282	1.1013139	5.6066821	1.8768803	12.9266019
## 19	9.7077515	2.7507137	6.5027618	0.0000000	10.6081210	6.4279179
## 20	6.3834123	7.8637520	5.6644772	6.1108894	8.3841094	10.1959965
## 21	1.3864799	0.0000000	4.1980619	0.0000000	10.2103489	2.8184211
## 22	3.1416617	0.8668684	0.0000000	1.0270833	10.7458653	2.3557493
## 23	0.0000000	2.1030276	0.0000000	0.0000000	9.9372261	3.1706782
## 24	1.6860298	1.0764907	0.0000000	0.0000000	9.0496378	2.5372961
## 25	6.8592937	6.3562953	6.0401779	2.8969499	1.5531147	4.3466378
## 26	2.3201092	8.0078453	0.3405053	7.5497685	6.0494238	7.1616449
## 27	3.9057841	0.7802261	0.4422269	0.0000000	3.2642812	3.8708381
## 28	1.8019864	8.3722674	0.5002922	0.0000000	4.2966630	2.2420232
## 29	1.7701525	7.8994820	2.6835617	0.0000000	7.8737621	13.7315151
## 30	10.1529818	6.9451547	5.8996083	6.2202932	2.5433969	11.0609754
## 31	2.4251101	9.0645040	0.0000000	3.3972553	9.1180986	5.4434243
## 32	1.0374525	1.2651368	5.2815017	0.0000000	8.2336197	10.5567582
## 33	4.6075907	7.2966116	8.0646754	6.0249446	2.1834230	7.8084288
## 34	1.4601135	1.6731493	3.7289218	0.8904856	10.3044343	6.2619877
## 35	6.1097178	1.3007680	5.3790213	0.8607642	9.0045674	10.4525426
## 36	6.2288726	0.5137939	1.8345494	3.4380932	8.6822773	6.3010864
## 37	2.5198690	7.3588806	7.1118910	5.6827390	9.3137567	3.4463886
## 38	0.6439485	5.0717541	4.7333055	2.8457510	10.0629808	7.1231281
## 39	0.9088129	7.4777235	9.0959637	1.2627338	8.6159768	6.6711122
## 40	3.4535176	3.2735905	0.0000000	1.6995072	8.6866647	3.3207302
## 41	9.3661019	0.0000000	0.9876119	0.0000000	4.5810680	2.5643050
## 42	5.6986908	5.8655254	5.6129628	6.7464256	7.6294025	1.6991962
## 43	3.9323069	0.0000000	0.0000000	1.4767964	9.6348581	3.0238408
## 44	2.5078961	3.8827506	9.5509795	0.0000000	10.3999246	10.4590959
## 45	0.0000000	7.7167879	3.4277268	7.7498755	3.7225862	7.7949584
## 46	4.2100069	7.0073716	6.1279242	2.5214277	9.7033497	7.6553647
## 47	4.6193661	6.6931914	3.9267585	3.5707908	8.5199593	2.5451776
## 48	6.0443067	8.0872570	5.5875450	4.8445664	1.8479168	6.3706979
## 49	1.0969365	6.7365751	6.4800841	5.2592989	1.7127718	11.3917451

## 50	7.2636852	0.0000000	8.5956692	1.9630301	8.4962282	12.5094724
## 51	4.1532703	0.7081431	0.3971458	0.0000000	7.8638096	0.9639180
## 52	8.4003488	5.2350798	6.7522308	4.6989630	2.1550368	11.3562409
## 53	0.9887029	1.5698799	8.6164327	4.3934437	7.0684988	3.0954519
## 54	0.7735744	8.2827238	1.2744704	5.2574105	8.9414673	6.8124584
## 55	2.9740704	6.8215176	8.6681195	1.3166092	1.4796962	12.9810993
## 56	3.6778690	0.0000000	0.0000000	0.0000000	8.9282744	4.5718467
## 57	7.5387042	3.5204474	4.8843977	7.5470873	8.4269059	4.5702504
## 58	6.5331786	6.3241319	6.1657833	3.5324416	2.7583032	6.9050091
## 59	1.9800253	1.1230040	0.3723950	0.0000000	8.5256516	6.5189348
## 60	1.0557510	5.8690620	4.6595536	3.1476160	8.9357724	8.0863178
## 61	1.6463470	9.2272340	0.9358369	6.4601282	8.6449378	8.9835976
## 62	0.0000000	1.6215244	0.3748447	0.6422857	1.1288873	4.0640033
## 63	1.7812338	8.1823258	0.3457370	3.2512798	2.4148932	3.6909981
## 64	7.7777656	2.1076544	8.6946097	1.9712216	7.8047119	11.6915596
## 65	0.8676593	0.0000000	0.0000000	0.0000000	9.3935385	3.0263220
## 66	0.0000000	8.1765118	1.5452271	1.2078929	2.0052922	10.4532991
## 67	11.0859915	2.2231445	3.8082512	4.6057847	9.9551574	11.1504972
## 68	6.7507485	2.3344825	1.1662013	1.7999991	8.7034738	6.5689062
## 69	8.8813024	6.6268202	7.0156570	0.7243883	9.0091744	8.6769726
## 70	1.2498700	3.5460795	7.2072711	4.3135724	1.9093507	4.8361059
## 71	8.9254737	0.7326599	2.2477453	0.8730257	7.6608331	10.2424717
## 72	1.8740887	8.7294770	0.8168864	4.7286879	2.9735194	3.3950902
## 73	1.3477790	0.0000000	0.0000000	5.0859430	8.3338642	4.6410026
## 74	2.4230403	0.9050428	7.1941008	4.8733260	8.6176423	11.9135976
## 75	9.8599292	5.1279758	3.8412989	10.2706290	10.3276952	10.6269113
## 76	8.9280256	4.6526700	5.1888361	0.0000000	9.8064272	11.3512524
## 77	5.0026620	1.6025044	0.5937840	11.2954820	9.8286923	2.0197019
## 78	1.2257068	0.4165155	0.0000000	0.0000000	9.1622768	3.5077693
## 79	2.2042033	0.5997939	0.0000000	11.1602678	8.4991471	2.7377084
## 80	0.8579014	0.0000000	0.0000000	1.8282254	9.4072104	2.5544906
## 81	5.2693399	3.7745657	2.8763107	12.0870031	0.9824369	8.1094368

## 82	10.6511367	5.1528202	0.5350576	13.2996621	1.8852620	7.8026592
## 83	3.0298945	1.0439744	5.8197142	1.2284801	2.0654344	5.2641723
## 84	4.1676229	8.0122346	7.2569936	0.7271799	2.2976023	3.5490530
## 85	1.2528395	7.3471846	0.0000000	0.0000000	2.1108643	2.4398890
## 86	0.2980717	9.0026240	0.0000000	8.3092494	2.8003305	6.3895014
## 87	3.8952735	5.7603700	0.0000000	1.1799568	8.7279228	5.4141051
## 88	0.9953036	0.0000000	0.0000000	5.0994509	9.5718656	7.4253351
## 89	0.8704239	2.2409554	7.4709907	0.4998841	8.6159786	3.8744035
## 90	1.0094905	5.9315460	2.6007931	2.6598104	8.9811046	2.8236271
## 91	6.1840878	7.8189771	7.9035005	5.2988416	7.8258327	8.6492634
## 92	1.4824869	1.1350094	4.5128653	4.0746168	8.5694288	9.6827720
## 93	0.4209405	8.3898877	2.8276361	0.8175414	3.6066436	5.7143444
## 94	7.6956021	6.6250907	9.4928230	6.1106201	8.5147393	5.8513368
## 95	1.6819889	1.0734090	7.8704979	0.0000000	2.7650891	10.5541016
## 96	1.2159270	0.5270703	6.9999786	2.0309716	8.1790756	5.6675828
## 97	0.0000000	1.7622638	0.0000000	0.0000000	4.2206008	3.2738441
## 98	0.7579620	7.3369733	4.6743194	0.6791535	3.5066908	6.4378686
## 99	0.7098200	5.9619266	0.7098200	4.5396489	8.6961337	4.3037442
## 100	4.7035936	0.5765705	0.5765705	0.0000000	8.8786457	11.6941071
## 101	1.3564256	3.1378805	5.7283450	0.0000000	7.9636741	5.0439394
## 102	0.0000000	0.8479969	0.0000000	0.0000000	0.4854268	6.7032115
## 103	3.6654269	0.0000000	6.5937183	9.0415880	8.4749438	10.2763813
## 104	1.5527213	3.8615286	9.0708943	0.7120234	1.7313570	9.0050928
## 105	2.3535209	0.3124328	4.9978118	0.0000000	5.8656393	9.3432546
## 106	0.7004397	7.7360914	1.5236121	0.0000000	3.0875647	4.3707920
## 107	9.0497718	0.4455148	7.4274210	1.0578315	8.7951367	8.4186555
## 108	3.2787431	5.6111163	1.7317915	1.7776617	7.6316565	9.4087728
## 109	2.4475263	4.6470900	0.9191494	7.6639437	8.6840146	3.7989837
## 110	1.2207633	1.5830376	2.4127002	2.2865559	7.7044902	2.9974731
## 111	0.3975839	6.4213597	8.0513536	0.8526381	8.7036489	4.3914447
## 112	4.7455224	8.0089132	0.0000000	0.0000000	7.5191880	10.9669559
## 113	4.5307575	7.7065375	2.8940417	1.6668929	4.7405930	4.1281036

## 114	6.3899436	0.9987732	4.0274903	2.2122269	3.8722279	2.9979066
## 115	1.4863025	0.0000000	7.4624082	1.1460686	4.3375612	3.5619493
## 116	1.2050797	5.9319714	5.8363231	0.8397984	1.7157177	4.4520485
## 117	0.5749250	9.5290816	0.0000000	0.8085910	8.4095831	3.3301998
## 118	4.0544318	2.0436945	2.9764920	0.0000000	8.2856593	2.5842169
## 119	4.6427824	7.9701007	9.4594261	0.0000000	4.0370835	8.0185552
## 120	4.2554630	0.0000000	10.6141663	1.2208252	1.0459322	3.5418617
## 121	1.8947596	8.2613663	0.0000000	1.2300185	7.8556771	7.2381878
## 122	0.7626465	1.7816115	4.3821969	4.4060944	10.0759398	12.1676323
## 123	3.5926962	7.4378960	5.0652147	2.3004459	3.0247452	2.3004459
## 124	1.1534162	0.6890307	9.3690276	4.3203186	8.4858877	3.2117131
## 125	3.7882054	0.8487982	10.0249305	0.7143994	1.7667648	5.2111407
## 126	0.0000000	7.3853629	1.4261037	1.0882773	1.4261037	6.7283301
## 127	2.0706984	8.3770639	2.7420925	0.0000000	2.2963693	4.5267136
## 128	0.6559929	1.1053428	2.6280036	0.6559929	1.4474205	10.4267457
## 129	5.0750106	0.5051796	5.4380400	1.7086728	1.9764736	2.1225402
## 130	1.9626231	0.0000000	7.3363959	0.0000000	9.1256480	1.6181447
## 131	0.0000000	7.0005871	1.6513617	6.7747067	8.3665438	2.4955673
## 132	8.4261528	7.8396353	4.5890444	1.6673018	3.2787133	11.1403899
## 133	3.2686739	0.4777809	1.3620490	0.0000000	3.4864698	2.9400728
## 134	0.9278206	7.7021671	7.9256535	0.0000000	8.0747398	4.9438698
## 135	1.1524430	6.8911883	8.1440005	0.0000000	9.6518123	5.2820283
## 136	5.6486466	6.9306415	7.4757229	3.1895241	9.2028232	10.9328248
## 137	2.6443409	6.6947549	4.4133301	0.0000000	3.8027309	7.3404234
## 138	0.0000000	0.0000000	0.0000000	0.0000000	8.7453721	3.6458630
## 139	1.4825385	7.1543918	2.6742799	1.9901199	9.4645362	8.1401728
## 140	1.1759397	3.4135670	2.7818633	1.6874191	9.8054000	7.1288594
## 141	3.2409401	0.4881036	1.3842156	6.7773632	9.2500390	3.3011047
## 142	8.9018935	1.0328061	1.7827021	0.5462648	8.1870987	11.7828732
## 143	7.2794657	0.4443490	1.0579701	0.0000000	10.5240160	2.9053124
## 144	5.5111074	0.5366498	1.2337040	7.0651501	5.1018517	3.7186247
## 145	3.5794457	0.0000000	0.6567252	0.3654686	3.9728397	2.5608372

## 146	4.4703091	8.6159797	4.0463252	2.2518403	10.6449271	5.5430504	
## 147	2.1086248	7.9816894	6.3955358	6.4512177	8.1978511	10.6560571	
## 148	3.0361340	0.0000000	1.1378314	1.1689629	10.1784944	6.2484969	
## 149	5.9723411	0.0000000	3.8479067	0.9710745	8.8169388	4.6760981	
## 150	10.2600278	0.0000000	4.9077992	3.4964112	3.5915358	0.9420077	
## 151	4.4771527	8.1580431	6.2519311	4.9837506	8.2934583	9.1996780	
## 152	6.9037144	0.0000000	2.4768483	1.8104842	10.7258881	5.8957316	
## 153	0.0000000	1.7243883	0.0000000	0.0000000	9.3897458	2.9124583	
## 154	4.3768946	2.0668814	0.7119354	2.5322421	9.5977615	5.9224143	
## 155	1.6677559	7.9642906	0.3472121	0.0000000	8.2305513	9.4425048	
## 156	5.3697701	5.9719665	3.5800128	1.5956946	8.7242335	3.3170725	
##	rs_SYT9	rs_DLK1	rs_IGSF1	rs_GRPR	rs_FOLR1	rs_S100P	rs_CXCL13
## 1	7.9046093	0.8928184	1.9995671	10.2564863	6.2874834	8.018631	9.1973546
## 2	7.8833178	0.0000000	6.3621069	2.9070252	4.6132311	6.917703	7.1951950
## 3	4.5876830	0.4497462	9.5629535	4.6094654	5.2597018	9.918025	9.0386996
## 4	0.4889263	5.6030210	2.3317912	3.1152330	3.3616140	13.008752	13.8883901
## 5	8.0361170	0.0000000	4.9031492	9.9954984	4.5103797	6.103279	8.0705439
## 6	1.0266584	1.0266584	1.0266584	1.6204457	10.6151030	9.399329	9.7128267
## 7	0.4706150	4.6608488	3.1856604	2.2799170	6.3019900	2.588205	12.1381914
## 8	2.5529426	0.4304994	9.6933383	1.7799321	5.6547334	8.913685	10.5111618
## 9	0.0000000	0.0000000	3.5098225	0.6035967	2.2131295	8.838204	3.8587966
## 10	9.0337556	0.0000000	0.4930324	6.4287739	0.4930324	4.979847	4.6693046
## 11	2.0039620	3.1746301	2.2265702	7.4146590	6.1884484	6.106761	6.7512053
## 12	8.9633204	2.2346239	1.9873936	10.8860021	3.0726032	3.554429	11.6133058
## 13	0.5474498	0.0000000	1.5089864	2.0808623	0.5474498	10.903421	9.2897861
## 14	6.7580713	3.3762070	6.3474708	10.3700183	7.1809226	6.525956	5.8738329
## 15	9.5608397	0.0000000	1.8078083	2.8225466	2.0757722	7.669526	2.1931409
## 16	11.2785403	0.0000000	7.2337683	5.3300098	1.7256539	9.341853	7.0650402
## 17	6.6807266	0.5039593	3.1607750	10.1640535	2.4850919	8.379118	10.7876760
## 18	7.4552787	0.0000000	7.7367050	5.1597139	9.8539311	10.805316	6.0997791
## 19	5.3207626	5.5320457	6.4469972	8.8967426	7.1811354	6.552053	10.4346989
## 20	5.3250302	0.3644604	5.3758423	5.5363265	6.9675813	9.385673	7.4945444

## 21	7.2358477	15.0098383	0.0000000	3.5725259	4.4318369	12.109676	8.1737326
## 22	0.0000000	0.0000000	0.4976379	0.8668684	7.8531885	5.370248	9.4595296
## 23	8.5948419	0.0000000	0.0000000	3.8733309	0.0000000	5.144585	4.9821357
## 24	0.4537546	0.0000000	2.1132337	1.3094673	5.5832001	9.823675	9.8591307
## 25	2.0786781	0.0000000	0.0000000	9.0028440	0.9762170	9.935513	10.9941349
## 26	1.5178804	10.3258812	12.8640672	3.2100303	4.1731114	12.108843	5.5726836
## 27	9.5704737	2.1974880	5.9112649	6.6996238	7.3718559	4.856836	7.9297105
## 28	5.4898576	1.4103411	1.1657512	1.9640659	1.1657512	2.363199	12.4823129
## 29	5.8111704	0.6805044	8.5095240	4.1354199	5.4123514	5.317416	4.6326870
## 30	5.8259331	7.9886580	11.0445757	6.9538274	8.9858149	4.923572	6.4824982
## 31	5.5078327	0.0000000	1.3725621	10.0469915	4.7022087	8.670552	6.2269651
## 32	7.1958791	0.0000000	5.8186103	3.8055504	5.4645997	5.947241	6.0114241
## 33	8.7948889	3.7439673	5.9525223	9.3019093	6.9240904	6.159718	10.1429358
## 34	6.1056655	2.0231844	4.2104746	9.5685617	5.4706995	10.334097	17.1648261
## 35	6.9788500	0.7922723	3.7485149	3.1778859	10.1446475	9.807334	8.3515996
## 36	3.1209657	4.0727232	5.7096050	5.7329990	10.0465395	6.659585	12.2253609
## 37	5.3126289	0.5165195	2.0047890	3.1290522	5.9868500	9.324452	4.4655436
## 38	7.0727682	0.0000000	1.4264795	10.3977096	8.6475354	7.414722	5.5061068
## 39	0.5247658	0.0000000	0.9088129	1.6751836	0.5247658	10.704044	10.1838678
## 40	5.9243446	2.9530231	3.5751187	1.8355199	7.0792981	9.426724	9.3001592
## 41	1.9814143	1.7196216	4.2494909	0.4088205	8.7653126	10.850686	6.5146068
## 42	1.5224073	0.0000000	2.1278974	3.5219302	5.3991369	10.484676	9.9322780
## 43	1.6911768	0.0000000	7.9798482	1.6911768	7.8211037	10.336528	7.4427992
## 44	6.8926545	2.7945198	14.0664332	9.2595616	4.1849785	11.036329	13.0360287
## 45	9.1855177	2.2940472	6.9020060	4.8731488	3.7225862	8.901790	7.1251985
## 46	2.4267478	0.0000000	1.9700438	7.3089178	5.8186205	9.822621	13.6704271
## 47	9.2693189	0.0000000	2.4684530	5.2887092	0.6822137	2.618027	8.4152639
## 48	5.2248815	5.3008522	8.1792682	5.5788512	8.0594067	8.308453	3.9756669
## 49	8.8825107	0.0000000	12.6828446	9.7948117	0.6503050	6.661462	4.3876176
## 50	7.4585567	0.0000000	8.6614122	9.4174827	4.4552088	11.062296	5.9437432
## 51	0.7081431	2.6750481	8.2919571	2.9947245	10.7099061	8.193895	7.2127483
## 52	10.2182280	0.0000000	11.0035687	3.2481705	2.5964104	12.972370	4.6691459

## 53	7.1204556	0.4093638	2.3966527	5.1209408	3.3487848	11.518279	6.2318759
## 54	3.4030904	12.3030941	8.2761346	9.6989741	8.3359646	9.959665	9.3897397
## 55	9.2458899	0.0000000	6.1510795	5.5971170	5.5054019	8.866391	7.8341006
## 56	0.4924172	0.4924172	0.0000000	0.8589358	9.2585017	11.048047	2.0890574
## 57	8.4284192	6.5011366	4.3322998	6.1512784	7.5470873	8.516437	9.8656267
## 58	7.4846634	2.6147805	7.2283849	10.6430824	7.5077011	8.134278	5.9658766
## 59	2.9585643	0.0000000	5.4300577	0.3723950	9.0391650	9.397710	6.9723779
## 60	0.6223682	0.3444877	3.0022164	10.6706742	6.6933197	9.313849	2.0828729
## 61	6.3885633	0.0000000	2.1202856	4.6463470	4.5559082	1.334397	6.3885633
## 62	3.8727106	0.3748447	1.4752406	3.5090624	2.7306617	5.789171	6.4729312
## 63	8.4647989	0.0000000	3.6909981	7.3672426	3.5972690	2.260387	4.7691211
## 64	6.3148741	0.8698714	10.0534463	4.4387453	4.6906518	7.613750	3.6053639
## 65	0.0000000	0.0000000	6.3000377	3.0263220	8.5148557	7.298433	9.1542060
## 66	3.3671334	0.0000000	1.6746866	2.5005726	5.6216329	1.674687	7.0414368
## 67	4.8753967	8.0508069	10.4699248	8.6956080	9.4432131	3.116331	3.7734795
## 68	8.3448090	4.7112306	5.7432914	10.1541196	5.2834885	7.216740	8.4550514
## 69	8.1975730	4.8731340	7.4727347	9.1754727	7.3439256	8.393911	5.6608488
## 70	4.1324288	0.4270698	5.3319273	7.9362740	0.7562547	11.296230	6.5707802
## 71	9.8059586	0.0000000	6.2767367	6.9133825	6.6506310	10.610080	6.7922932
## 72	8.3121192	0.8168864	2.2654669	10.4454019	4.7695443	5.027110	9.7515529
## 73	5.8686324	1.4868173	3.5309197	3.2477149	1.1938979	2.991572	12.4491584
## 74	9.8611311	3.5913084	3.3243642	9.2719749	1.7341785	9.683710	2.5716040
## 75	6.4849663	8.4494433	11.0810818	6.9188632	9.2418507	5.179435	6.3678480
## 76	8.1209361	0.0000000	6.2209451	9.9706217	2.7357171	4.008612	5.4098457
## 77	2.3429245	4.5486401	7.4606828	2.8298496	4.1946859	6.081097	1.0131406
## 78	0.4165155	0.4165155	2.1199205	1.0028825	9.9399588	10.591993	4.3274215
## 79	1.6144272	3.4321310	6.1093856	2.0330882	0.0000000	5.672425	1.3484591
## 80	1.3922625	0.0000000	0.4918018	0.4918018	6.0353644	9.866769	1.5998414
## 81	6.0419986	8.9218264	9.1042672	7.1247737	6.7064532	3.722193	1.3008266
## 82	3.8550927	6.4088732	8.0957346	4.4952922	9.2555904	1.698307	0.9245560
## 83	9.9866080	0.6143800	3.7805411	8.6581158	4.8779700	8.583205	3.9387563
## 84	8.6493359	0.0000000	1.4996291	10.7272874	2.1356334	11.211741	5.7267822

## 85	4.3866040	0.0000000	7.2768707	1.6839210	4.4609719	9.137962	3.1734633
## 86	1.1025238	0.0000000	0.0000000	7.3548162	1.5037049	6.784300	6.9134914
## 87	5.4903262	0.0000000	4.9421485	10.7860293	7.2450202	6.983886	4.3339389
## 88	0.0000000	0.9953036	0.0000000	4.6348836	0.5818815	7.040572	8.3126103
## 89	3.7905427	0.0000000	3.7014936	11.1062624	3.1486576	5.755091	4.6449522
## 90	7.1299692	0.0000000	5.4447963	5.1579855	3.2263852	10.582630	1.1804662
## 91	8.1691293	0.4421208	1.0535979	9.1329261	9.2716194	10.363305	8.5547607
## 92	10.1669469	3.5565030	1.3191555	5.9190921	2.9778294	10.862363	7.1081240
## 93	9.8396287	0.0000000	8.7950721	11.1646687	0.7464848	7.308889	4.8128678
## 94	8.5113447	0.3634515	4.0166924	9.0543574	3.8829951	9.875589	5.1214672
## 95	5.7987297	0.8705028	0.6343145	11.7089916	3.5567482	4.612812	5.1834786
## 96	9.0998196	0.0000000	1.8662354	1.4667054	0.9121900	6.848123	7.2122045
## 97	2.6049490	0.3774014	1.1350094	0.0000000	5.4809210	9.241664	6.9875153
## 98	9.2957809	5.1378601	0.7579620	6.5905077	0.0000000	10.707695	3.4161912
## 99	1.8246864	0.0000000	6.3469640	10.5746997	6.9127504	8.416455	5.8391660
## 100	9.5709334	0.0000000	11.3949434	4.4021628	1.7893537	6.458812	4.0206533
## 101	0.6042611	2.2144668	0.6042611	2.7488262	8.4534554	10.942302	8.4862610
## 102	3.9818527	0.0000000	3.7865964	2.3219281	6.2364926	2.536053	0.4854268
## 103	5.8023277	0.0000000	1.2008182	9.3124410	0.0000000	4.478888	13.6209532
## 104	6.8895636	0.0000000	2.4958998	7.7024498	2.5915837	11.322378	4.5739440
## 105	8.3260380	0.0000000	4.3971253	3.0022525	0.0000000	11.777109	0.3124328
## 106	5.7831082	4.0280121	5.8858062	9.1214840	4.9396873	9.425460	0.7004397
## 107	8.3354542	0.4455148	8.8817863	9.4400326	0.7854250	7.577068	11.3530522
## 108	3.0451459	0.0000000	8.5741140	7.1963867	6.2834625	9.476742	6.4555081
## 109	5.6820030	2.8553519	4.0906333	9.5236568	5.0281006	9.272491	5.5646922
## 110	5.7697585	3.2704392	1.4132149	4.5415644	2.2201132	12.768539	4.9821037
## 111	3.7066190	1.3708896	4.7039589	2.6031456	0.0000000	7.338516	8.1673419
## 112	6.7993749	3.8822224	12.1780845	6.3832585	5.5231197	5.186088	4.7000068
## 113	5.4201287	0.0000000	3.9139138	6.0119071	3.7935734	8.891981	8.9887886
## 114	7.7833335	0.0000000	0.4144603	7.2070670	0.9987732	9.911985	6.0850953
## 115	0.0000000	0.6786128	2.5371718	2.2026998	10.2183332	8.310591	7.6204588
## 116	4.5557916	0.0000000	2.2976023	10.7255643	0.0000000	8.388894	4.9554105

## 117	0.3159140	9.4085000	2.2977197	3.5868728	2.5597365	6.764355	5.3279640
## 118	0.7000845	1.1694120	0.0000000	4.9821220	7.3522509	8.268228	10.3319750
## 119	6.7984964	4.9451114	6.9659920	9.8349776	3.3575520	9.369632	7.9582250
## 120	6.6857019	0.0000000	2.1571084	1.3768460	0.8467942	10.261832	3.2903654
## 121	1.2383589	2.3442320	7.8471858	10.3235853	5.9045684	9.009193	6.9251164
## 122	8.4964336	0.0000000	8.4015486	8.0365869	3.2264006	9.890914	3.2264006
## 123	8.4777263	0.4403144	0.0000000	8.6284576	2.1919416	9.718733	2.8923133
## 124	1.3394225	0.3852654	0.3852654	2.0217995	1.3394225	11.516226	9.4046471
## 125	9.0580957	0.2632748	2.1388472	2.6795364	4.3662173	13.241539	9.6577974
## 126	6.5053352	0.8825257	0.5077185	8.8198987	0.8825257	3.529221	8.2412315
## 127	6.9630845	0.0000000	2.6632991	10.6855810	1.6479591	6.616072	8.9881217
## 128	7.0220049	0.0000000	7.3132685	3.9972382	0.8980922	8.219581	8.2097955
## 129	9.9169538	0.0000000	0.0000000	7.7723667	0.0000000	13.062683	11.8627309
## 130	3.0791391	0.0000000	1.4091465	4.2948266	0.0000000	12.057804	8.4881089
## 131	0.0000000	0.0000000	1.0501186	2.8921967	0.7771988	7.631970	7.4729710
## 132	8.8837757	1.4547023	4.1325193	10.0946923	6.0315783	2.912401	6.3100529
## 133	4.7075027	1.7466137	2.6097550	3.4350285	3.8818310	9.779548	11.3915188
## 134	8.2574270	0.0000000	2.2958406	8.2630884	1.3242346	7.440101	6.4924285
## 135	8.7793845	0.0000000	2.9496843	6.1248719	2.7010832	10.917180	11.0796533
## 136	9.6064752	1.1906781	12.0478075	8.4734014	3.6488566	11.780494	5.7322421
## 137	6.0317878	4.5915119	4.0666317	4.2635828	4.6123171	11.568129	2.9359688
## 138	0.6561760	1.7239953	6.5502112	2.1554902	8.4368056	0.656176	5.1518710
## 139	8.3020302	0.3775125	2.4557546	8.9383155	2.8640177	6.197193	9.3770482
## 140	2.4900566	0.0000000	7.6558648	6.1434200	0.0000000	7.300042	7.5596249
## 141	0.4881036	0.8521587	4.3733837	1.7720968	5.4486730	9.777768	10.0451530
## 142	3.6445947	0.0000000	6.8587743	8.1905467	4.2839144	9.311170	8.1450691
## 143	1.4871261	10.2637192	4.3809995	2.9053124	8.8914733	1.487126	2.8341246
## 144	2.2030132	0.0000000	2.2030132	5.5670221	9.5795726	10.926988	4.0284631
## 145	1.2876496	0.0000000	5.0442936	2.1567849	8.2312687	10.322951	9.7248554
## 146	6.1029268	0.0000000	6.3138136	6.9893468	2.5118981	7.202458	8.1433822
## 147	7.6501269	0.0000000	12.9082091	6.5337751	0.0000000	9.545892	7.1344766
## 148	0.0000000	0.0000000	8.0922751	3.2331825	7.2158640	8.196316	5.7175558

## 149	9.7090049	0.0000000	1.5165195	1.5165195	0.8027309	10.691355	4.7175064
## 150	0.0000000	0.0000000	0.0000000	1.5071603	11.1384891	8.690879	2.8048796
## 151	8.1567637	3.3743162	5.8637279	7.1707123	5.6402334	5.340025	5.1779138
## 152	1.1670367	1.4117516	1.4117516	3.5083019	7.2371927	12.618051	3.7500490
## 153	6.4561145	16.2444943	1.3426685	0.8221999	3.2976903	11.451430	8.5671975
## 154	2.5322421	5.1215045	7.8275415	2.4504063	8.3000990	11.091765	4.9828567
## 155	3.4325987	9.5765839	1.3966527	9.8830367	2.2660369	9.420901	5.1957846
## 156	4.9016730	0.0000000	1.8035164	8.1893754	8.1264763	7.237809	5.5338748
##	rs_DCD	rs_FOXI1	rs_PYDC1	rs_ANKRD30B	rs_CXCL17	rs_PLA2G2A	
## 1	0.0000000	2.5140970	3.9200360	7.3632605	6.2554818	9.2782171	
## 2	7.8475704	4.4320040	0.7843365	2.5096958	3.9150428	6.0602593	
## 3	0.0000000	3.7481499	0.4497462	2.6138145	5.4407064	8.1503952	
## 4	0.0000000	6.5008228	0.0000000	7.0009037	10.3308486	6.5326037	
## 5	5.3993215	3.6877214	5.5654449	6.8065174	5.1645168	1.5757964	
## 6	13.8174518	7.8632354	5.7243010	0.0000000	11.5222641	7.2813672	
## 7	0.0000000	5.1106931	0.8248086	3.5125556	9.7395060	5.7811367	
## 8	1.9191112	7.0030524	3.1127335	0.0000000	1.6259250	4.3058028	
## 9	0.0000000	7.2097662	0.0000000	0.0000000	8.2325610	0.0000000	
## 10	0.0000000	4.1124166	0.0000000	3.7687031	1.9455702	9.1334068	
## 11	0.0000000	9.7986260	0.0000000	2.8119025	3.7053366	5.3627224	
## 12	0.0000000	7.3615438	9.4611821	7.5896392	2.3440047	5.3455028	
## 13	1.5089864	4.8425364	0.0000000	0.0000000	0.0000000	3.1450089	
## 14	2.8139761	6.6847725	0.7400209	2.5088596	3.7075579	3.0656929	
## 15	0.0000000	10.4863293	5.5683149	10.1256880	10.6275913	5.0667135	
## 16	6.5437047	10.5078015	8.9995618	6.2167129	5.9735332	2.6031456	
## 17	0.0000000	7.3834442	2.9427960	6.4449387	5.6533782	0.5039593	
## 18	0.0000000	8.1416223	3.7655560	0.0000000	2.2685242	7.8532503	
## 19	0.0000000	5.6354555	4.0913190	7.3451968	5.6271136	5.2022571	
## 20	0.0000000	10.4624744	0.8970080	7.4713671	6.9238575	2.6916682	
## 21	6.1212351	8.8527030	6.9172742	2.3322496	9.3620484	9.2091087	
## 22	0.0000000	6.6710966	0.0000000	1.6132016	4.5127768	0.4976379	
## 23	1.7460117	3.4446936	5.5445441	11.9596786	2.1030276	5.1252502	

## 24	0.0000000	3.7620298	0.4537546	1.0764907	3.3562002	6.7672350
## 25	4.1510551	6.3506069	7.0884798	1.3852101	6.5672047	4.8764384
## 26	0.3405053	3.8918858	1.2210728	2.8326268	2.2410775	3.4747475
## 27	11.0113165	5.7949201	0.0000000	5.4607950	6.1845977	5.2321005
## 28	12.2111964	8.9707542	7.4348008	8.1753395	3.6560616	6.1675346
## 29	0.3800645	3.8935952	0.9291092	6.8594528	1.7701525	4.4458326
## 30	2.7957877	5.4866404	0.4557546	5.7680996	5.3876934	7.7431123
## 31	0.0000000	5.5078327	1.1322478	6.7372852	4.4103343	5.6286132
## 32	0.0000000	8.7497813	0.0000000	3.8761928	6.8850008	4.6758949
## 33	0.0000000	6.9858727	1.7989215	6.2019827	5.7490166	5.0546401
## 34	6.2537340	4.2442021	0.5238630	5.8775799	4.3408756	3.0009555
## 35	0.4498519	8.5349767	0.4498519	5.3273676	12.8956635	7.7896693
## 36	1.1911204	3.9582766	7.5342274	5.1899906	9.2448647	5.3192675
## 37	0.0000000	8.4121337	4.4082023	6.4373792	8.9175678	2.2851950
## 38	0.0000000	0.0000000	5.6342012	3.8859745	2.3839393	5.0350916
## 39	0.0000000	1.4620000	3.6330708	8.1043592	8.7847755	11.3377179
## 40	0.0000000	3.7227939	1.1918784	2.2790552	6.9428605	7.7960967
## 41	10.0426368	7.1080717	3.2996110	1.2082675	6.8822787	0.4088205
## 42	5.1631726	10.7036341	1.0865120	1.3208312	6.7910235	11.4926354
## 43	0.0000000	4.6985852	3.8000301	1.4767964	6.4062696	0.9196833
## 44	0.3923174	2.7945198	0.0000000	5.4939643	9.2403077	5.6636691
## 45	2.5559143	2.1428382	0.9826560	6.0100100	6.2416610	8.6481605
## 46	9.6636766	7.2057610	8.3978098	1.6728326	6.6042033	6.5490777
## 47	0.0000000	0.6822137	0.0000000	3.7757354	3.8977922	9.3268180
## 48	4.2188664	6.1884187	0.3661403	6.9035939	5.8556808	5.0845448
## 49	0.0000000	3.6638342	2.9162855	7.3208800	5.4499146	5.7385463
## 50	0.0000000	7.5776660	9.1977047	4.8907288	5.4434575	7.0453720
## 51	0.0000000	7.6230350	2.2637255	0.0000000	8.6251718	5.8666879
## 52	0.0000000	11.1660116	3.2481705	7.8505538	9.5804698	6.6259762
## 53	0.0000000	4.8849886	0.0000000	5.1209408	10.7657956	4.1749816
## 54	3.5846980	7.7309198	4.8236016	1.9403923	7.6693960	6.3430062
## 55	1.1326426	6.9348420	1.1326426	3.7251085	11.8469660	5.5242173

## 56	1.9440338	6.1656969	0.0000000	0.0000000	1.1508846	3.1916732
## 57	5.2419851	9.6379898	3.0398929	1.6632535	6.7441180	9.4003394
## 58	0.9715895	6.7024816	3.4073528	8.3746226	4.2674609	4.3146748
## 59	0.3723950	0.3723950	4.0538412	0.3723950	0.0000000	5.7472558
## 60	0.3444877	7.3108636	0.0000000	9.5255715	2.3350258	3.6856038
## 61	0.0000000	2.9440338	0.0000000	4.9460664	3.6159694	8.2340208
## 62	0.0000000	2.0921736	0.0000000	9.7250900	6.7721575	1.9880848
## 63	0.0000000	8.3328900	0.0000000	2.5544415	6.1904766	2.4863540
## 64	0.0000000	4.8849788	9.5858645	6.5432345	5.1432342	5.1600247
## 65	0.0000000	10.2686942	0.8676593	1.2476238	9.7519567	3.5167716
## 66	0.0000000	7.2583955	0.0000000	8.9144892	4.0066302	4.7857807
## 67	1.7376435	7.7106157	0.4153260	6.2986308	5.3467123	5.2739559
## 68	0.3907777	4.3423556	0.0000000	8.2118829	3.1336128	7.2902557
## 69	0.7478600	7.6211625	3.7255558	6.4134435	5.8196707	6.6367029
## 70	0.0000000	5.0158543	0.0000000	6.8373807	0.7562547	0.0000000
## 71	0.0000000	10.1225780	2.0313246	8.1937486	7.5083993	5.2499535
## 72	0.0000000	1.5380415	0.0000000	6.1355944	3.5438175	2.1464271
## 73	0.0000000	1.1938979	0.0000000	0.0000000	0.8258670	11.8552947
## 74	0.0000000	7.9334281	0.3683772	3.4058018	3.7242574	1.9666889
## 75	5.2889196	7.9706311	1.8236271	6.4539570	7.9815444	11.5541244
## 76	0.0000000	0.0000000	0.4619476	10.0997815	3.1579007	0.4619476
## 77	0.0000000	4.2342560	0.0000000	1.0131406	3.1932356	10.3179306
## 78	0.0000000	1.2257068	0.4165155	0.4165155	6.2849323	1.4186757
## 79	0.0000000	0.5997939	0.0000000	0.0000000	2.9450458	11.9556986
## 80	0.0000000	4.3285565	6.5424252	0.0000000	5.9335679	0.0000000
## 81	3.0563234	6.8291455	0.0000000	5.6092231	4.4580932	12.0567570
## 82	0.5350576	8.7063375	0.0000000	3.8096202	4.0631750	9.6451731
## 83	0.0000000	3.3633393	3.1641266	8.6760170	5.0952029	4.0117997
## 84	5.0607392	1.9531162	5.2106733	6.6767399	3.3784423	4.7607372
## 85	0.0000000	9.3853732	0.0000000	0.3523066	9.2672886	0.3523066
## 86	0.0000000	0.0000000	0.0000000	4.7994604	2.4826676	1.9938555
## 87	0.0000000	6.4580112	6.0962555	4.7429009	0.9937830	8.0283443

## 88	0.0000000	0.5818815	4.6057432	0.5818815	0.0000000	0.5818815
## 89	0.0000000	4.4122396	9.9305039	1.1650436	11.7893986	0.8704239
## 90	1.0094905	10.0701605	0.0000000	7.3653671	5.5421218	1.1804662
## 91	0.0000000	2.5896916	0.7799741	7.6360474	7.0585925	7.3587910
## 92	0.0000000	2.7402368	1.3191555	5.4905477	11.6109299	6.2659788
## 93	0.0000000	0.4209405	0.0000000	2.2409859	1.0118534	5.4493567
## 94	10.4972657	6.3388291	2.7507566	7.0057054	4.0166924	9.0229162
## 95	0.3517414	1.2512646	9.0163737	7.1107986	5.1834786	3.0797194
## 96	0.0000000	1.6802343	0.9121900	11.2223544	3.7853413	4.6329719
## 97	0.0000000	4.9497357	0.6763577	1.8841681	0.9237957	0.3774014
## 98	0.0000000	3.1046554	3.8896390	5.5638506	7.0701682	4.1077297
## 99	0.0000000	5.9545523	0.0000000	10.1963816	9.6760159	4.4577256
## 100	0.0000000	9.0259678	8.4362626	2.6790634	1.7893537	4.4676968
## 101	1.8483175	10.6478011	8.7694101	5.4903519	9.6753308	5.5635822
## 102	0.4854268	1.3785116	0.0000000	8.8795832	0.0000000	4.5484366
## 103	0.0000000	12.6528362	10.7961556	8.7203441	3.4074071	2.2130050
## 104	0.8265993	8.5356852	11.1791022	9.7902881	11.9183677	14.1230096
## 105	0.0000000	0.0000000	0.0000000	3.8132887	2.0508499	2.9124199
## 106	0.0000000	3.4999479	3.1899194	5.5236717	5.3129918	3.0875647
## 107	4.3854172	7.1581653	9.7935119	5.2715975	2.3161457	5.8531174
## 108	0.0000000	8.8420014	5.9045949	3.0949792	2.3398215	2.9399600
## 109	0.0000000	5.0281006	2.0420840	0.9191494	4.9677635	7.2565389
## 110	0.4143521	6.4121887	3.0563581	6.3721912	12.4885536	2.3196179
## 111	0.0000000	1.8229748	1.9468431	3.0525898	6.0030287	7.7038157
## 112	0.0000000	4.8324546	2.3688801	6.5845161	4.0366704	3.2850026
## 113	0.0000000	0.4875892	1.1416290	5.8900380	9.3244702	3.6622739
## 114	10.3981230	4.3669446	5.1269481	8.1641874	3.4572528	4.1676550
## 115	7.9911607	0.6786128	0.0000000	1.4863025	11.9866895	9.8778614
## 116	5.9624958	1.5647196	3.8129910	4.1676229	2.3903375	3.4747605
## 117	0.0000000	9.3828079	0.0000000	6.0733982	5.4701887	3.0607219
## 118	15.7306762	10.0995975	2.8572047	6.3165223	11.5970350	7.0865683
## 119	1.0199154	9.3984810	8.4502128	6.2089054	7.1053208	7.6903808

## 120	0.0000000	7.0204378	5.0533938	10.4274155	7.2771693	2.4659484
## 121	0.0000000	4.9068233	0.0000000	7.6333818	7.3099774	3.4552680
## 122	3.9661259	5.3716669	3.6431635	9.2694706	8.3454922	4.4755065
## 123	0.4403144	1.0501882	5.0023425	8.5995447	7.8839268	5.5776252
## 124	9.0612656	1.1534162	0.9398284	5.3393441	8.8256231	11.6618036
## 125	0.0000000	1.0008654	6.3767505	10.5878204	4.3939653	3.2943414
## 126	0.0000000	0.0000000	0.0000000	6.4437508	2.3835246	4.6941336
## 127	0.0000000	0.4390380	2.0706984	6.7121817	3.1984942	0.0000000
## 128	0.0000000	8.2027644	0.8980922	2.1552635	11.0345112	2.4109109
## 129	0.0000000	0.5051796	2.5926364	1.4207788	8.3889080	4.3721581
## 130	5.2419012	6.8118897	4.0282332	2.6738730	8.3612793	6.7522013
## 131	0.0000000	11.5711629	0.4403144	4.1516721	0.7771988	12.7611592
## 132	0.0000000	5.8691904	1.2052048	5.9526667	5.4480419	3.6225087
## 133	0.0000000	3.8028549	3.7193149	2.5138444	11.3380401	7.0671418
## 134	0.0000000	6.5068161	6.8901025	8.7600419	6.5020362	6.0698611
## 135	0.0000000	0.9390008	2.9496843	6.7301862	6.3524284	6.3361423
## 136	0.8914970	4.6891258	0.8914970	8.9166480	6.0718399	6.4906808
## 137	0.0000000	5.8066334	0.4330663	7.8321989	5.7975785	2.2784309
## 138	6.8128961	12.7202239	2.6939441	0.6561760	1.4476321	2.2458607
## 139	0.3775125	0.0000000	0.0000000	5.2624031	6.5315998	4.2885136
## 140	0.0000000	7.7118266	0.0000000	4.3140947	0.5056877	1.8151245
## 141	0.0000000	5.2795530	2.0774481	0.0000000	13.0098605	4.0266142
## 142	17.4066512	4.4075771	5.6881328	3.7971271	6.6391728	2.9307184
## 143	0.4443490	6.0025720	3.2164549	2.5080483	10.6808953	7.1014694
## 144	8.1147226	6.1646395	3.3870316	0.9268344	5.6599445	8.2252817
## 145	5.6605522	8.8261299	1.2876496	0.0000000	0.3654686	4.4622814
## 146	0.0000000	10.3063886	10.4978190	5.5575326	3.2428464	0.9565771
## 147	0.0000000	5.9043372	6.0715825	5.3225483	4.7620405	6.9831943
## 148	0.0000000	2.6785677	4.6093649	0.0000000	8.3920340	2.0004327
## 149	9.2983848	9.2559796	5.0284233	6.6599388	8.7709697	7.6713450
## 150	0.0000000	9.4611174	7.6863233	0.0000000	6.0126849	0.9420077
## 151	0.3256167	7.1933558	0.8153295	6.7360582	4.1467855	8.1387290

## 152	2.6774180	8.2909464	4.6484309	4.2366380	11.9359188	9.5689054
## 153	6.7047682	4.5875870	5.8540231	8.9588180	4.5875870	6.6506483
## 154	0.7119354	5.7620697	0.0000000	2.3636477	3.7823247	6.2889676
## 155	0.0000000	6.7136917	1.7863036	7.8549157	4.2858387	6.3303182
## 156	0.0000000	4.8527679	2.3176224	3.6388848	2.8027309	1.9959548
##	rs_DI01	rs_NBPF4	rs_ABCA12	rs_GLRA3	rs_SAA2	rs_CHAD
## 1	6.7273610	1.1923204	3.9602986	1.9995671	6.4588725	10.2840116
## 2	5.8684719	0.0000000	7.7969261	1.6630713	3.5202211	7.0572542
## 3	5.2035222	8.1335810	4.5202902	10.6218320	9.2631356	8.9227818
## 4	3.9933936	1.3860936	3.7980194	6.1455389	3.1152330	11.6700766
## 5	10.5356250	2.4217484	6.6784424	5.3581079	2.9514572	9.6842430
## 6	2.8528179	3.3696200	5.2803291	1.3538878	7.1346604	3.6925946
## 7	1.8873693	0.0000000	3.3030501	2.6778916	7.7510312	6.3974813
## 8	2.8598106	0.0000000	3.4704458	2.2705588	6.6403433	3.6002103
## 9	0.0000000	3.9095619	3.7515923	0.0000000	3.9095619	6.0317481
## 10	10.9846034	3.5351572	2.0906163	0.0000000	5.5048809	10.4688016
## 11	7.2531923	9.2090466	11.6960236	2.2265702	7.6051854	10.2060466
## 12	2.1162982	0.4548076	9.2552210	0.4548076	7.5473866	3.1347959
## 13	1.7257848	1.2537473	4.1004058	0.0000000	6.4930308	2.3656086
## 14	8.4071479	3.0656929	6.6272450	3.9140957	7.0188823	7.6587285
## 15	4.8692249	1.2804813	8.4864718	0.4407396	3.8656714	9.6956231
## 16	9.7196936	6.3203204	8.2245227	0.5474498	7.8273052	10.4460837
## 17	5.7573860	7.0878171	5.8120849	0.0000000	3.0917168	5.3622525
## 18	9.4864407	2.1493894	3.6821912	9.8202051	9.7296778	10.6136263
## 19	10.4196878	7.4049550	6.5652087	5.1796265	5.9615516	9.5977420
## 20	3.8870475	8.2116192	7.4406699	2.4089835	5.2723629	9.1571183
## 21	6.6537365	2.0802142	10.6623253	0.0000000	3.2441868	2.0802142
## 22	1.1606621	0.0000000	2.2347466	0.0000000	10.0418372	1.9571717
## 23	2.1030276	0.5566992	6.1433955	0.0000000	0.9573203	6.5724804
## 24	0.4537546	5.4058971	3.1908677	3.1312602	8.3885951	2.7102389
## 25	4.6168870	9.4439172	10.6539097	0.0000000	5.7166590	8.0985254
## 26	7.6236920	9.8241732	5.7256921	0.0000000	6.4949404	11.7457818

## 27	9.7482578	2.5015156	4.7835771	2.4071352	9.1671374	7.9986858
## 28	2.1097283	0.0000000	10.7798001	0.5002922	4.6221631	2.1097283
## 29	5.2390008	9.5194405	4.2767051	2.8735179	5.3917883	10.1632943
## 30	4.1165477	4.9235723	6.8179200	11.3494694	9.5754595	11.0430525
## 31	10.9893628	5.2000609	6.6022059	1.7587296	4.5143306	9.5794466
## 32	3.6529339	6.4423613	11.3113799	11.5364773	6.9601039	7.5192911
## 33	1.9388127	6.4442463	7.2703692	6.2294860	11.3439073	9.5694138
## 34	6.8652594	3.5245527	3.3497050	8.3674012	5.5803747	8.1840938
## 35	3.7086949	3.1778859	11.7719673	2.2200203	10.8220665	7.6013570
## 36	3.3800090	1.9979427	4.4846602	3.0482187	8.5795554	5.6616470
## 37	11.9319031	6.1531548	9.7142478	0.5165195	5.8748953	11.7980877
## 38	10.7414007	3.3222022	7.0174565	0.0000000	5.4422037	6.3379216
## 39	5.1383517	8.3296138	8.5261201	5.2589636	6.0235681	10.3458337
## 40	1.9598443	5.4604641	3.5357171	0.0000000	5.2933153	5.2206279
## 41	7.3474699	1.2082675	5.3794927	0.4088205	3.9154062	2.2029192
## 42	9.2685149	0.8066128	8.9148464	0.0000000	7.7396922	1.9986649
## 43	7.4166861	2.0429244	5.6831069	2.5617172	6.1676630	2.4484517
## 44	5.3242922	7.1806432	5.4430529	11.2923624	6.0169197	11.7099504
## 45	8.1426217	0.5733745	9.9236683	3.4277268	8.0286073	7.2690846
## 46	5.4843863	7.3188392	7.4298118	2.8480771	6.5034076	9.3831156
## 47	2.4684530	0.0000000	7.0759369	0.3810618	5.3434434	6.8862014
## 48	8.9239986	0.0000000	5.3830407	1.4505910	8.5894590	7.2785164
## 49	5.9460103	8.3111975	7.0379313	7.9845774	8.0863268	10.4850567
## 50	1.1942762	9.2702364	9.4437436	0.7173858	9.3270485	9.9701246
## 51	0.0000000	3.9315507	4.1009524	0.9639180	11.6942437	3.3931004
## 52	1.3751785	9.4061429	4.9796870	5.4519891	5.8208427	10.2697441
## 53	4.7682373	3.9484233	10.4825019	0.0000000	5.5013946	1.8580208
## 54	9.5167438	2.4885150	9.8612968	0.4380799	3.6267312	7.5007081
## 55	2.9182526	8.2630419	3.5525615	0.3765127	6.2504728	11.3020990
## 56	5.5285307	5.1196591	6.1656969	0.0000000	4.4156032	3.4816735
## 57	2.3142035	2.7611576	5.0508499	0.0000000	6.3936753	7.9162873
## 58	8.9520831	0.7143115	8.0959429	7.2253000	7.4846634	9.2825478

## 59	3.3404768	2.9028454	4.0538412	0.0000000	9.1177457	2.1807844
## 60	8.2952083	7.0772815	12.0898373	0.6223682	4.6126120	5.1061598
## 61	0.9358369	10.4963605	1.4988125	0.3832757	5.9722768	7.7022323
## 62	2.0921736	2.7306617	6.9898588	0.0000000	7.9272760	5.0847106
## 63	5.5885467	6.4313271	7.9140885	0.0000000	4.9186963	8.2063336
## 64	8.3731919	5.2877567	7.5225525	1.9620677	10.1683868	8.1476206
## 65	0.6320820	0.3503841	5.8624068	0.8676593	7.1246094	0.8676593
## 66	0.8656813	3.2883733	6.2703514	0.8656813	5.3090088	8.3966283
## 67	3.9705316	2.4158127	4.7378922	7.9316955	8.5061096	10.5443156
## 68	12.2757895	4.6588970	5.6118186	6.7423903	7.1738740	10.0512950
## 69	1.8942939	1.6031219	7.8898787	2.3437205	6.7654008	9.2336110
## 70	6.2565465	1.4450380	5.1478968	7.5366459	1.7705331	11.3793495
## 71	2.2477453	7.7770922	12.4126379	3.2297571	5.1549112	11.1639892
## 72	12.3960172	2.5730109	1.5380415	1.0992279	8.3445933	4.8092755
## 73	3.2863045	4.1697006	1.8380643	1.1938979	9.5545230	1.7302269
## 74	10.0687885	0.6614760	9.5817100	0.0000000	7.5345714	11.4703001
## 75	2.1673900	6.7159894	7.6141253	6.7333110	11.7951055	9.0564443
## 76	7.2294985	6.3196793	11.6735702	0.0000000	4.3662872	10.1139764
## 77	1.0131406	1.3377111	2.4809113	0.0000000	11.4603026	3.1106138
## 78	4.5498540	2.5897875	5.4650831	0.0000000	5.0205555	4.8300068
## 79	2.9450458	1.0221192	2.0330882	0.0000000	9.5506873	3.4321310
## 80	0.8579014	3.1240138	6.5611657	2.0873610	3.2525519	3.4796703
## 81	2.8763107	2.5555708	5.1750734	3.0563234	14.6809909	6.9592868
## 82	2.0507455	1.2308793	3.4434475	3.3826258	13.9255589	6.3935432
## 83	2.3166961	9.5902940	7.6310985	2.7169251	4.2110589	10.2009012
## 84	9.5718516	6.8102786	10.3456948	6.4840044	5.5611459	10.3482312
## 85	1.6839210	5.9049946	6.9195224	0.3523066	1.6839210	3.2170446
## 86	10.7823521	9.2912082	2.0746767	0.0000000	0.2980717	5.0892736
## 87	10.1069352	5.0894515	6.5164659	3.7254576	7.2035722	10.7686004
## 88	9.1057134	1.3163196	3.9454579	0.0000000	5.9907983	10.3427034
## 89	11.1458244	5.4204251	0.8704239	0.0000000	1.8010345	6.3586828
## 90	11.4608693	8.9658374	2.9707248	0.3257318	0.0000000	11.0434802

## 91	4.5600240	4.0053281	11.3307813	0.0000000	3.8345494	7.5830783
## 92	4.7070609	4.6394290	11.8598877	7.0668878	3.8536863	8.1940969
## 93	5.0673203	6.8135016	9.3921074	0.4209405	0.7464848	7.2000629
## 94	3.0291525	7.2260326	11.9068788	0.3634515	7.7882766	7.8142223
## 95	6.8458162	2.5093411	10.4762701	0.6343145	2.4376272	5.9673646
## 96	2.0309716	2.3128684	9.9365553	0.0000000	6.2885247	8.6412259
## 97	9.0708785	4.7557796	3.5927082	0.0000000	6.8257882	5.2510108
## 98	8.3169562	7.7931266	8.5661435	0.0000000	3.7484076	5.8497241
## 99	9.0053722	7.1826506	8.6637161	2.9399036	5.4030120	6.4449420
## 100	11.6975258	6.2511642	6.2134542	1.5681294	8.2108096	6.8436284
## 101	2.5708272	1.2018847	13.1746938	0.3335382	3.0946246	2.6918914
## 102	2.9634741	9.3901690	2.6322682	0.8479969	1.1375035	3.2326608
## 103	6.1523842	7.4810914	3.8325660	0.0000000	5.5696582	9.5419012
## 104	4.7707234	8.6316496	8.7203048	0.0000000	3.5642074	9.1807272
## 105	3.9773074	8.7904609	8.0060478	5.9127241	0.7869309	9.6964086
## 106	9.8772050	0.3923174	4.2095625	8.4502924	5.9528530	7.9698585
## 107	11.0077259	7.1173948	9.3404842	0.0000000	6.6818667	9.0722492
## 108	8.2141923	6.9341780	7.5106178	8.9235792	5.6281466	9.6261903
## 109	6.6678836	5.1048105	5.9340517	2.6658021	6.4790656	6.9536564
## 110	5.3664201	0.4143521	10.8384214	1.5830376	2.7345254	5.4996801
## 111	9.3536673	0.9648052	10.8240562	2.6765834	0.3975839	2.9377963
## 112	3.2850026	9.8387536	3.0870724	8.4007855	5.7410247	9.4690221
## 113	8.0810999	5.1529865	7.9535202	7.2188722	5.9286427	5.5119771
## 114	9.6067794	5.6606092	5.6700698	0.0000000	4.6795139	7.9214893
## 115	9.3711594	0.6786128	7.7224387	0.6786128	3.7016821	3.6335010
## 116	7.0956101	0.9848445	5.6425745	0.9848445	4.6895340	5.6043709
## 117	4.2931277	0.0000000	7.5453638	2.1463945	4.4467723	4.2931277
## 118	6.1987829	5.4420643	11.4826628	0.0000000	4.6995738	2.8572047
## 119	2.1459709	7.2551976	8.6602544	6.9500916	5.8375649	8.1144118
## 120	5.8701847	7.2521980	4.3713219	0.0000000	0.8467942	11.5685953
## 121	3.0443417	7.1396445	9.4174884	7.5239845	5.8714543	5.0319818
## 122	5.5750854	3.3299703	9.1480695	4.2028173	5.5431123	7.3452935

## 123	9.2515965	1.0501882	7.0941252	0.0000000	6.3197498	8.4396738
## 124	7.8943000	0.9398284	11.7852970	0.0000000	6.9759649	6.0487026
## 125	4.6104698	8.7712356	9.1885864	9.1656304	4.3090743	3.8089616
## 126	10.9390269	1.4261037	3.8991370	0.5077185	3.4755259	4.5194161
## 127	8.6732020	4.4814927	4.3618245	1.4742024	7.3659269	7.2152408
## 128	8.6948318	7.9407088	7.2437243	3.1330045	4.8541802	9.2562396
## 129	6.5430767	3.7181534	11.7930105	1.6307316	2.4886692	8.4104043
## 130	7.2644201	0.0000000	12.1900842	0.0000000	7.3178006	3.1481369
## 131	6.2126082	1.0501186	3.5045950	0.0000000	1.0501186	3.8990403
## 132	2.7351322	0.9034240	10.5078194	6.1947706	7.4157054	9.1097152
## 133	3.6756579	1.9062364	8.7004328	0.4777809	5.8064942	7.6357537
## 134	8.5258109	5.3038538	11.9227650	1.3242346	8.6181601	7.3148714
## 135	6.5107483	7.7966172	6.9494474	1.1524430	5.6056069	9.3307437
## 136	2.5116957	8.9369262	4.1780214	0.5134907	7.2911440	10.5399491
## 137	5.2255294	2.8683905	6.7891267	6.7661061	4.6328208	12.2284783
## 138	9.8141380	0.6561760	3.1332840	0.0000000	2.6282603	4.5870529
## 139	8.8827286	3.7613597	12.2290293	0.0000000	4.1000946	1.8842462
## 140	1.9777195	4.9451816	9.5294995	1.1759397	3.0970545	2.2564974
## 141	0.4881036	0.0000000	3.5194161	1.1425441	4.5071032	0.0000000
## 142	5.1073991	1.6285870	12.0304580	7.1269512	6.1228715	6.0563993
## 143	0.7834986	0.7834986	3.2164549	0.7834986	1.8174595	1.2884176
## 144	6.9646505	0.0000000	3.6163342	0.0000000	5.5941902	9.6922880
## 145	0.0000000	5.5226113	1.5935450	1.7251304	8.9184104	4.6561817
## 146	9.8188437	3.8247984	2.2518403	0.0000000	2.1018517	10.2157111
## 147	5.7938153	6.5337751	2.3359977	0.0000000	4.9106799	11.9091480
## 148	2.5365254	0.0000000	0.0000000	0.0000000	5.9732600	3.0361340
## 149	3.5599445	2.5456225	7.9310010	0.0000000	1.3154503	10.1145987
## 150	0.9420077	0.0000000	3.1424951	0.0000000	2.6009358	1.5071603
## 151	3.9946702	3.5715797	6.9579865	3.3386383	6.8385737	9.4907145
## 152	5.3814841	1.1670367	10.6552231	0.0000000	3.3410606	8.2871167
## 153	0.8221999	5.0557683	10.8198798	0.4689482	3.0526246	2.4876664
## 154	0.9685700	3.9992785	3.2648967	3.1136172	9.1156888	4.8614691

## 155	2.8047144	5.8884803	1.9976898	0.0000000	5.1412039	9.4649014
## 156	4.2043442	0.0000000	2.9952674	0.0000000	4.6952478	7.7727019
##	rs_ASCL1	rs_LRP1B	rs_SLC5A1	rs_ATP13A5	rs_PTPRZ1	rs_WNK4
## 1	0.0000000	1.8360857	8.2715667	1.8360857	5.2255179	12.3203516
## 2	0.0000000	3.5202211	5.1566676	3.9825191	4.6551915	8.5956778
## 3	0.7921057	4.3752550	3.5818212	1.6757256	3.1179942	8.6400829
## 4	7.7113084	6.5941409	3.5719923	1.1442422	2.3317912	8.2921555
## 5	0.0000000	2.3109217	4.0401648	2.4217484	3.0235215	9.8623733
## 6	0.0000000	1.8453495	9.3960006	10.4942456	4.0496482	1.7771146
## 7	0.8248086	0.4706150	6.9135190	4.0379181	3.8956419	5.0663777
## 8	3.6410026	2.4648251	7.7588621	1.6259250	7.7542228	4.2799541
## 9	1.3553546	1.8470749	7.7485538	2.8549133	3.5098225	4.9766890
## 10	0.8598106	0.8598106	0.4930324	0.0000000	1.3948982	12.5262925
## 11	8.1600993	0.4164074	4.6295781	5.6296830	3.7053366	5.2447120
## 12	1.6888070	1.8457911	3.5081878	1.0785415	4.6058854	7.6144912
## 13	0.9433588	1.2537473	6.7863402	6.5998578	2.3656086	2.6087619
## 14	1.2268168	4.8982277	5.1640018	3.3762070	5.9224714	8.8918284
## 15	0.4407396	7.9199306	9.8120181	0.4407396	0.7778720	9.2153265
## 16	0.0000000	0.0000000	7.6059706	0.0000000	0.0000000	7.8161818
## 17	2.6858953	1.6277469	2.4850919	4.2140082	6.1544961	10.6073349
## 18	9.0103891	12.4202114	6.2375618	0.0000000	3.5937004	11.4619148
## 19	0.3634515	2.8686078	10.9448310	3.2186727	5.9681691	5.4740791
## 20	0.0000000	3.0329648	2.6916682	5.2287995	1.7221162	6.7180794
## 21	0.0000000	2.3322496	9.0567206	7.5126725	0.8537562	6.9779324
## 22	0.0000000	3.5993535	6.9170940	7.4221548	0.0000000	6.8564952
## 23	3.3809095	0.5566992	1.5278210	3.9189586	0.0000000	4.9362799
## 24	0.4537546	2.6263457	6.3035853	1.3094673	6.2485405	7.4043650
## 25	0.0000000	1.5531147	8.9101639	3.0167281	0.7179122	6.3475239
## 26	3.6067265	9.2860596	4.8689929	1.6461627	2.1574318	9.5006029
## 27	7.1853522	4.6248554	7.8010487	5.2042973	6.1774654	11.0086491
## 28	7.9736268	0.8710551	1.8019864	4.4953370	0.8710551	6.3175302
## 29	2.8735179	4.4656480	3.6029082	0.9291092	2.9316641	11.0683980

## 30	0.4557546	6.6031797	7.8328261	6.2058441	8.3927381	11.0131579
## 31	0.0000000	0.8437427	1.7587296	3.5518851	6.5784104	9.1257327
## 32	9.0644356	8.3121664	5.4414868	1.6347327	2.8001026	10.7563486
## 33	0.0000000	4.2258687	7.8355300	7.2835505	6.3408595	9.4738279
## 34	0.5238630	7.0858824	4.5440649	0.9074291	4.1043031	10.1704436
## 35	0.0000000	6.1769251	8.2529563	8.7852092	1.5005471	7.4937082
## 36	0.5137939	3.1902198	7.7645226	3.9582766	5.4236017	5.3087176
## 37	7.7933438	3.6079102	8.8745508	1.4446141	6.9098019	12.6338072
## 38	0.0000000	2.0336521	5.5758357	1.5700743	0.0000000	8.4833426
## 39	2.0254187	6.8129679	6.7672151	1.6751836	0.0000000	10.2137725
## 40	0.7157177	2.6177921	6.8969499	9.4427903	0.4017397	1.4167857
## 41	0.0000000	0.7270927	10.4032085	4.1464923	4.9608638	3.0935433
## 42	0.8066128	0.8066128	12.1359287	7.7064470	1.6991962	1.0865120
## 43	1.6911768	0.9196833	7.7748635	7.4864940	3.1008263	2.9265308
## 44	0.0000000	3.1899194	5.1190490	3.7880070	4.3707920	8.8856467
## 45	8.9999465	5.9656319	3.2167187	2.1428382	3.3607576	8.1537653
## 46	0.0000000	4.8255211	8.5627438	3.4870361	5.4843863	7.1284058
## 47	0.0000000	2.6180272	0.6822137	0.0000000	0.6822137	10.1334311
## 48	7.9320943	5.9051992	11.0215705	6.0631276	6.8719200	7.2133978
## 49	0.0000000	8.3507430	2.0468752	2.4739947	5.2046494	10.7302027
## 50	0.0000000	9.0494867	4.3221517	0.9754835	2.2824398	9.4235112
## 51	0.0000000	8.1478979	8.8117032	5.8976882	0.9639180	2.1774076
## 52	0.6147570	9.2829603	6.5088058	2.6584400	1.7617533	8.2712496
## 53	6.0721873	6.3410179	3.6795364	9.2773437	11.0436604	3.7863245
## 54	0.7735744	6.2719280	2.3942946	0.0000000	6.0960467	9.3298466
## 55	0.3765127	2.7997090	9.5146571	5.5971170	3.2246886	5.1244067
## 56	0.0000000	0.0000000	5.2641160	4.3011779	7.2395708	4.7762935
## 57	0.0000000	6.9006024	10.4362240	7.8341765	6.7682227	9.2963333
## 58	0.4008658	8.3507558	9.2487616	5.0317922	7.7176620	10.2693784
## 59	0.0000000	0.6681191	7.0609563	0.0000000	8.0730040	7.3829119
## 60	2.1719113	1.5300208	4.9130426	0.6223682	2.5495952	8.8529087
## 61	7.6616078	3.1057786	4.9881757	2.6261821	10.5332717	12.0302208

## 62	9.8500150	6.9244064	4.2996110	1.8759373	2.6646876	7.8160320
## 63	12.1271163	2.9579146	3.7209351	0.3457370	3.1896664	6.4248835
## 64	1.1642714	3.0060287	8.1178477	2.8491987	4.2633650	10.1584927
## 65	0.3503841	2.7597524	8.0402897	4.3393298	2.1039004	0.8676593
## 66	5.2478895	1.7935214	3.2473351	0.3494785	0.6304987	13.0215373
## 67	2.0007212	5.4820674	7.5349355	6.5140212	7.9705845	7.5275732
## 68	1.8025655	3.9652671	5.2366495	1.8025655	6.2764725	7.5299443
## 69	5.1648345	9.4601516	7.4837279	4.4926672	6.9772799	5.6906937
## 70	1.4450380	5.3319273	0.4270698	1.6169693	1.0240359	8.7383696
## 71	0.0000000	8.9287419	2.9291661	0.9124199	1.7765673	3.9399036
## 72	0.0000000	0.8168864	4.2689433	0.4655044	2.2654669	11.2636085
## 73	1.8380643	2.4945692	1.9384364	0.0000000	3.2477149	1.2744108
## 74	2.8294843	0.0000000	2.3425832	0.9050428	1.2953116	12.1662790
## 75	1.5384388	3.9341107	9.3241805	7.4639788	8.8693369	9.3000947
## 76	0.0000000	2.4669403	2.1363555	1.3274574	2.0069084	6.7265138
## 77	0.0000000	6.8777295	4.7256430	2.8298496	4.9322313	2.9072753
## 78	0.0000000	1.0028825	9.0501656	5.2280221	7.9792177	2.8774891
## 79	0.0000000	7.3057563	0.0000000	1.0221192	4.9251164	1.6144272
## 80	0.4918018	2.3397645	8.3806078	7.5843695	9.0339873	3.9047635
## 81	0.0000000	6.3314078	7.3002647	5.3230782	7.2913052	7.6804073
## 82	0.0000000	4.1014148	9.3279352	4.2787579	7.4269541	6.8485403
## 83	0.0000000	13.4038117	5.8924372	2.8818799	4.9906690	11.7462674
## 84	0.8345494	12.2205417	5.4874928	1.2050797	3.6723461	12.5843070
## 85	0.0000000	1.9131479	4.7842946	3.3792467	1.8030617	3.8501893
## 86	11.6628442	0.9395275	0.0000000	0.0000000	0.7556567	13.1074701
## 87	0.0000000	3.1588702	1.4072440	0.0000000	0.4119685	8.4849848
## 88	0.0000000	0.5818815	5.5144190	0.0000000	0.0000000	6.3201615
## 89	0.0000000	2.1086917	10.2891346	1.4095267	0.8704239	7.3265688
## 90	6.8983922	2.1846929	8.0970503	0.0000000	12.4905143	2.9970575
## 91	0.4421208	1.6559471	5.4246030	1.0535979	0.4421208	5.5753063
## 92	2.5322421	10.7732240	0.9237957	5.7369431	0.6763577	7.6405826
## 93	3.6066436	10.8865194	0.4209405	0.4209405	0.7464848	8.4827830

## 94	0.0000000	11.9884945	8.9678415	3.0789343	5.7551172	5.4884507
## 95	0.3517414	1.4095810	2.9822726	0.6343145	1.6819889	8.2298104
## 96	1.2159270	1.2159270	2.1787784	0.0000000	3.6398226	5.4122091
## 97	1.7622638	2.9778294	5.9047610	2.1980226	6.5953515	1.9358369
## 98	4.0487070	0.7579620	2.3635916	0.4281424	2.2633349	12.8928980
## 99	0.0000000	2.5277710	7.8221680	0.0000000	0.7098200	10.0968096
## 100	0.0000000	0.5765705	5.4988285	0.0000000	0.9873936	6.9928296
## 101	1.6232114	3.0039800	9.0255715	0.8320393	0.8320393	12.4490403
## 102	1.1375035	0.0000000	0.8479969	0.0000000	0.8479969	9.3740222
## 103	0.3330802	0.8312287	4.2420003	0.0000000	0.0000000	9.0947188
## 104	0.0000000	1.3487423	10.4739605	7.7781120	2.0334759	8.0514308
## 105	0.3124328	1.4290535	0.0000000	0.0000000	5.2569540	10.6740169
## 106	11.1020063	2.7945198	5.6813481	2.0444641	2.4263453	8.4660104
## 107	0.0000000	0.0000000	9.4035021	0.4455148	0.4455148	9.2407854
## 108	7.3607681	4.5086061	5.2750890	0.9034240	1.8525982	7.4724220
## 109	5.7068234	3.2424806	5.8695605	2.6658021	4.5948590	7.1539066
## 110	4.7160471	0.9985566	1.5830376	5.5207428	4.1402388	8.9344973
## 111	6.1326262	0.0000000	8.1383952	6.7280933	0.3975839	9.2550510
## 112	7.4209152	2.5845777	5.7297458	4.2411614	5.0475951	8.6714158
## 113	8.4346032	4.9982406	0.8513593	0.0000000	0.8513593	8.7388364
## 114	7.1708745	9.1849537	6.9164802	1.8727106	0.4144603	10.4757250
## 115	1.7664680	0.0000000	7.7468462	7.5620539	0.0000000	4.6100976
## 116	0.7248249	3.7791021	6.8646220	0.4075159	0.0000000	8.3146467
## 117	10.7691651	5.0366660	4.4140137	0.9849174	1.8847151	12.0487357
## 118	0.0000000	1.1694120	10.5710888	6.4253737	2.7271581	3.9695465
## 119	0.0000000	10.6983053	8.1108403	6.5782625	1.6114085	9.6118940
## 120	5.2778397	0.3405053	10.0132846	0.8467942	0.0000000	10.4929532
## 121	4.5640855	2.8764678	6.6601514	7.4056061	6.2942660	10.2795506
## 122	8.2742430	3.6023737	3.3790941	1.0320303	2.1644645	11.4128391
## 123	7.2878056	2.1919416	3.2579309	0.0000000	0.7771988	8.6504217
## 124	0.0000000	2.1266425	12.0780240	10.5503838	0.9398284	6.6968646
## 125	0.2632748	9.4384413	1.9272897	0.4859420	0.2632748	7.8765710

##	126	11.5191903	2.7877041	2.2619219	0.8825257	3.5292213	11.3363774
##	127	6.6775139	11.4334948	2.0706984	2.6632991	2.0706984	10.3940724
##	128	9.4296013	8.5304676	7.1935352	1.9555732	2.9299992	7.2737443
##	129	0.0000000	1.1750455	6.6850641	2.1225402	1.1750455	9.7711941
##	130	0.0000000	0.0000000	5.3773702	10.2014454	0.4997821	4.6168987
##	131	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	10.2458046
##	132	2.7351322	3.8572445	6.4167992	4.2361175	5.5720165	11.8479578
##	133	3.6306268	3.6756579	3.6306268	6.3963513	0.8360857	6.9364047
##	134	5.3994856	10.7722585	11.0722688	6.3346970	2.4625759	6.9564226
##	135	0.0000000	1.3383388	5.3484874	1.1524430	0.9390008	10.5465362
##	136	0.5134907	11.3882057	5.8545418	1.9973647	3.9575525	8.2534013
##	137	3.5673386	9.7942612	5.0687998	1.7870145	4.0666317	9.8168627
##	138	0.0000000	2.2458607	10.3049638	4.1220349	5.2314247	4.6348198
##	139	6.0745161	1.6292400	1.6292400	3.1335142	0.0000000	7.9804247
##	140	8.4138411	0.8793921	0.0000000	0.5056877	2.2564974	4.3951999
##	141	1.1425441	0.0000000	11.2998541	3.3588604	10.5625020	0.5647196
##	142	1.4559650	5.0779138	8.2446202	3.2805110	1.4559650	4.0053461
##	143	3.8782153	0.7834986	11.4588234	10.3046106	6.8940113	2.1199869
##	144	0.0000000	2.4608736	10.5267006	0.9268344	0.5366498	3.6163342
##	145	1.5935450	2.8183598	8.6206612	0.3654686	6.2524346	3.1981955
##	146	9.0731492	0.9565771	6.6269691	0.0000000	0.5562087	7.9122133
##	147	9.6949279	1.6818990	8.3274880	0.0000000	1.0733404	6.3334112
##	148	0.0000000	0.0000000	10.3207004	5.9869797	0.0000000	3.0361340
##	149	0.0000000	0.0000000	8.8843949	0.0000000	0.0000000	7.7521973
##	150	0.0000000	8.2548774	12.0545632	4.0179575	9.6818697	5.6392090
##	151	0.3256167	2.6004363	6.4818721	2.0139267	5.0514156	10.7748654
##	152	2.4768483	2.4768483	0.0000000	0.0000000	0.0000000	10.6618338
##	153	1.8829951	1.3426685	9.2736905	7.9245673	4.0985038	3.7196982
##	154	1.1864372	3.2162220	8.7674188	5.9891367	10.3345762	5.7728833
##	155	11.5108292	1.6677559	1.5385382	0.0000000	1.6677559	8.4933187
##	156	0.0000000	4.0393227	4.2043442	1.3186928	0.0000000	7.2241763
##		rs_CST5	rs_PEG10	rs_CLIC6	rs_MS4A15	rs_ABCC8	rs_PPAN.P2RY11

## 1	2.8068808	8.435851	11.526563	9.8600791	7.5463327	5.7227693
## 2	0.0000000	11.121915	7.061161	0.0000000	8.0693912	4.7615938
## 3	1.3005338	10.506124	10.287521	2.9230351	4.6934479	4.6639821
## 4	7.2994874	7.058801	5.411196	4.1326262	8.0178924	5.1284914
## 5	0.0000000	14.331636	12.483022	7.0197453	8.4267101	7.0449831
## 6	0.0000000	11.433066	8.041375	1.3538878	1.0266584	0.0000000
## 7	0.0000000	8.501270	5.869437	0.4706150	4.8071385	7.7459862
## 8	0.0000000	14.706249	4.795746	0.4304994	0.0000000	0.0000000
## 9	0.0000000	9.087271	5.162279	2.5048492	0.0000000	8.3096601
## 10	6.2472516	13.497588	11.548385	9.3407011	6.4219352	4.7263735
## 11	0.0000000	7.737725	10.599932	4.2780442	5.6586371	0.0000000
## 12	0.0000000	12.498080	5.931789	8.7451529	3.0726032	5.4738940
## 13	0.5474498	5.017183	5.641581	0.0000000	0.0000000	5.0388137
## 14	0.0000000	12.874156	8.079149	7.6001322	4.7262427	8.2840009
## 15	0.0000000	4.886755	13.102456	2.0757722	10.6620402	7.8405872
## 16	9.1951032	13.744232	12.178658	4.9323400	5.8861819	7.7991851
## 17	0.5039593	10.562517	7.471036	8.6582472	7.7981277	0.1047392
## 18	8.2738641	5.374118	12.098525	10.2218330	7.3779072	8.0596970
## 19	1.8394356	10.475917	13.314935	0.0000000	5.1909862	7.3922401
## 20	1.5906260	9.461734	6.625200	3.7082645	7.4406699	0.0000000
## 21	2.6430942	14.585917	5.980784	0.8537562	6.7542448	6.6757172
## 22	0.0000000	13.142522	2.467410	1.1606621	0.0000000	3.2183472
## 23	0.0000000	5.391125	3.674867	10.4875650	11.3485676	6.4127832
## 24	0.0000000	11.953697	5.159629	0.0000000	2.2314939	5.0484934
## 25	0.4031586	15.856812	15.202173	0.0000000	7.1155670	7.1807556
## 26	5.0304862	11.755258	3.891886	7.6696930	6.0667200	4.9594224
## 27	1.4820222	14.785281	12.502139	0.0000000	8.0181980	3.7807195
## 28	0.0000000	7.489068	6.081847	0.0000000	1.9640659	0.0000000
## 29	5.1438301	4.903535	7.131620	6.6240965	6.9288938	0.0000000
## 30	2.3467016	12.883395	10.955616	2.6325242	6.0118400	7.1634333
## 31	2.4251101	7.281347	7.335588	9.3127387	4.8486580	0.0000000
## 32	8.5616396	13.753512	13.686863	5.7822801	2.8001026	5.2307756

## 33	0.0000000	8.728970	7.444766	6.3408595	6.0170756	0.0000000
## 34	1.8587767	9.117099	14.165690	5.8989097	9.7019543	5.6494545
## 35	0.0000000	12.135502	6.023082	6.5021571	5.3916509	5.0249712
## 36	0.0000000	10.522794	6.804651	5.5993654	3.6979183	0.0000000
## 37	2.4072984	7.676775	9.859706	9.1484990	6.8247004	5.0348408
## 38	0.0000000	6.876049	6.162061	1.4264795	5.6423492	0.0000000
## 39	0.0000000	13.806468	6.921379	6.1975096	4.1787385	4.9562426
## 40	0.0000000	12.267851	7.865284	3.1221923	1.3816710	0.0000000
## 41	0.0000000	10.664027	6.472642	2.2029192	0.0000000	7.8438413
## 42	0.8066128	13.174565	8.631216	5.5681112	3.5682267	0.0000000
## 43	0.0000000	9.858493	3.845480	2.5617172	0.0000000	6.9680366
## 44	0.3923174	8.817096	4.717786	8.2823318	9.5623550	9.3943341
## 45	6.2601518	14.837395	6.557903	6.9078821	8.5725009	0.0000000
## 46	0.4485838	10.480710	14.295551	1.2980131	6.8924882	5.4031552
## 47	1.6397415	6.532880	7.454715	5.4570098	9.4118696	0.0000000
## 48	0.0000000	10.155939	10.884778	1.4505910	5.7199500	3.9170116
## 49	12.6801557	8.523669	13.091095	0.0000000	8.9970829	6.4879317
## 50	6.1927367	9.208741	7.331609	6.3086521	7.8045325	0.4815056
## 51	0.0000000	13.392268	4.770781	5.6194776	0.0000000	0.0000000
## 52	5.8477139	13.244123	12.264823	7.5771078	6.9135321	7.8167322
## 53	0.7279640	14.157324	4.094135	0.7279640	4.9322691	7.1007937
## 54	8.3827174	12.816254	7.100458	6.1831490	7.8264640	7.7571099
## 55	7.5123391	6.723165	6.767268	4.5460548	6.1204930	6.8326179
## 56	0.0000000	8.152609	5.476748	1.7828279	0.0000000	0.0000000
## 57	8.4314416	10.021158	6.878627	5.8048925	7.0178328	7.6454171
## 58	0.0000000	10.270954	6.518131	5.3248322	6.5130785	6.9810569
## 59	0.0000000	13.612807	5.973717	3.2979104	0.0000000	3.9151193
## 60	0.0000000	6.674397	4.273516	1.5300208	2.7363451	6.8695025
## 61	1.3343967	16.460278	6.027170	0.3832757	10.2311534	6.9892912
## 62	0.0000000	12.049900	5.369924	3.1234344	4.7288674	5.2866151
## 63	4.4496736	14.358993	5.123091	6.7103477	5.0304994	6.4707109
## 64	0.0000000	11.139727	11.877707	6.8426948	6.7514624	7.2378514

## 65	0.8676593	6.754008	6.071456	1.6777112	0.0000000	7.2812494
## 66	0.8656813	15.481176	5.451356	4.0786013	8.6772228	8.1581229
## 67	2.6637772	10.391130	8.527133	0.0000000	6.4820787	7.3996428
## 68	5.3728372	8.737516	12.242097	3.8763991	6.6381216	6.8083799
## 69	1.7068620	9.547439	10.037609	6.5899896	5.9416228	7.4863540
## 70	0.0000000	11.764105	6.332529	3.4124157	2.1523457	5.1024650
## 71	0.5271704	15.387925	10.339474	0.2875905	6.6186072	4.5195734
## 72	0.4655044	10.594620	5.602911	8.6713719	7.3674410	7.2841338
## 73	0.0000000	12.888460	8.640772	0.0000000	0.3305584	6.9247163
## 74	10.0935800	4.882883	5.166073	0.9050428	6.6714462	2.9187678
## 75	0.0000000	10.595287	10.012713	0.0000000	8.2681986	7.1395841
## 76	4.7770304	15.372755	3.828713	5.7605563	1.5295711	8.0490388
## 77	0.5937840	8.716140	8.849515	0.0000000	2.6068212	4.8477614
## 78	0.0000000	10.683205	5.240845	3.6297996	1.0028825	0.0000000
## 79	0.0000000	7.892378	8.326893	0.0000000	1.8388711	5.9695857
## 80	0.0000000	9.963269	4.328556	5.0833581	0.0000000	6.7874690
## 81	0.0000000	13.651374	8.006447	0.0000000	6.6016371	6.1988438
## 82	0.0000000	11.980965	8.284162	0.0000000	5.3080477	6.8539258
## 83	1.6432559	10.709955	10.996058	1.9708905	7.4303622	7.1455959
## 84	0.6061579	12.850549	6.436956	0.8345494	5.0719814	7.0364682
## 85	0.0000000	4.615481	5.666544	2.8801761	0.0000000	6.8588240
## 86	9.0589504	11.190968	6.741627	9.1967723	10.0063760	6.6348502
## 87	0.4119685	5.786518	11.958738	6.5925408	4.8624464	6.7889506
## 88	1.8007032	2.577175	4.921698	1.8007032	0.0000000	0.0000000
## 89	2.3621051	4.926123	12.017052	6.4034825	1.9630672	0.0000000
## 90	3.3390091	12.928298	3.995050	1.5976504	9.7825750	0.0000000
## 91	1.2834477	13.943657	8.737954	6.1911836	4.8916185	7.6504084
## 92	8.6975744	8.976396	8.813344	6.3046972	7.3388273	6.8959339
## 93	0.0000000	11.054292	4.437574	7.3119681	8.1984809	6.3236457
## 94	0.3634515	10.996154	8.676038	3.3048761	4.7740491	7.3563419
## 95	1.0734090	15.485830	8.020692	6.9298880	2.5776584	5.0911455
## 96	0.9121900	5.940456	5.716799	0.9121900	7.9666243	7.3840602

## 97	0.3774014	12.093917	5.031157	4.1494545	3.4420677	7.5715441
## 98	10.3341729	12.705780	10.430154	1.0261627	7.8739774	4.8396069
## 99	0.0000000	12.704455	6.253910	6.2539099	6.5117811	6.0402283
## 100	0.9873936	4.530383	5.498828	0.5765705	4.8335732	6.1822652
## 101	2.5062465	12.685738	5.043939	7.9546273	9.2330928	6.3516142
## 102	7.9530324	10.547087	8.481396	1.7655347	8.5902128	0.0000000
## 103	9.0121348	4.117994	9.793593	0.0000000	8.5347702	0.0000000
## 104	4.5971795	4.642563	4.750135	4.7910170	6.7821372	7.8864648
## 105	0.0000000	5.172420	4.654258	4.1640300	1.2933116	7.6270049
## 106	9.5647385	9.847659	12.940610	7.1960995	6.6804706	6.6974708
## 107	1.0603241	5.258021	13.933057	1.9614381	10.4997397	5.4031143
## 108	2.0676043	3.954987	10.849885	3.1431648	6.9945152	7.2345808
## 109	0.0000000	9.171340	8.603688	5.1597785	4.1995860	6.5656109
## 110	9.5758085	13.888775	9.437991	4.9041035	8.9924192	6.2088177
## 111	0.0000000	8.848702	5.087246	7.4913240	7.7911297	8.5848840
## 112	4.3918914	11.871166	11.522253	7.9124403	6.0799285	0.0000000
## 113	0.0000000	12.131447	8.194353	6.0208666	6.3543869	7.4704474
## 114	1.5833747	13.689159	9.439162	3.8722279	6.8555998	2.6790409
## 115	0.0000000	5.505935	6.737397	0.6786128	0.0000000	7.7345315
## 116	4.0588187	15.671990	12.269810	5.1798295	7.0713079	4.5896257
## 117	3.9258381	8.802621	8.879621	7.4496158	10.5642416	0.0000000
## 118	0.0000000	14.694082	6.536326	2.2472288	4.8320191	0.0000000
## 119	2.3536338	9.137484	11.116543	5.3724577	5.7205877	6.6381405
## 120	13.4041436	4.371322	8.952093	3.4035541	9.2807109	4.5102467
## 121	0.0000000	9.336892	5.384716	7.3099774	5.8602452	0.0000000
## 122	9.1717873	15.716947	5.886709	7.1853264	6.8701760	5.0175879
## 123	9.2191329	10.810531	9.206114	4.0310069	6.5894279	5.4717240
## 124	0.0000000	9.095573	7.350747	2.3159140	2.7688618	6.9729453
## 125	2.6337102	14.688758	5.063455	0.8487982	5.8696000	5.3962040
## 126	0.0000000	8.672582	3.771273	6.9852568	1.9828385	3.5880850
## 127	9.7903526	11.926887	5.855594	8.4030640	6.4847327	5.2918798
## 128	7.4334636	11.146657	11.118727	2.5591981	9.0288415	6.1905062

## 129	0.0000000	12.712792	7.987871	2.8659188	6.6065340	3.7625083
## 130	0.0000000	13.950226	5.819395	0.0000000	0.4997821	5.5004133
## 131	0.0000000	4.509075	3.310660	0.4403144	1.0501186	6.8375522
## 132	0.5212518	7.683453	6.834961	8.8582950	8.5718812	4.7531071
## 133	7.6639565	10.997589	8.575341	1.3620490	3.0120501	7.1957285
## 134	1.6348720	10.306236	9.407261	6.5902532	5.7041942	6.1261779
## 135	6.0132188	13.632457	7.271182	5.5502081	6.4615498	0.0000000
## 136	1.1906781	13.637537	13.024876	4.5643355	5.8438432	6.7196051
## 137	7.7641192	9.030829	11.155079	3.8384778	7.0323433	3.8493888
## 138	0.3650206	11.802507	3.861261	0.6561760	0.0000000	6.1881398
## 139	0.3775125	6.526930	6.118650	4.0747195	4.1495602	3.7999784
## 140	1.1759397	6.783352	3.522985	0.8793921	3.6246858	0.0000000
## 141	0.0000000	10.681859	6.198962	0.0000000	0.0000000	0.0000000
## 142	0.4315695	3.797127	11.134798	2.2736651	3.9675836	5.6263369
## 143	0.0000000	14.063343	4.733696	6.4989194	2.5080483	6.3953610
## 144	2.6795589	5.863445	7.657827	2.3377111	3.1142671	7.0260354
## 145	0.0000000	7.411197	5.652306	2.1567849	0.0000000	8.2253892
## 146	0.0000000	7.455377	8.879266	6.1322457	4.5878450	0.0000000
## 147	0.4521737	5.663678	5.621155	8.9714464	6.0315540	7.0242831
## 148	0.0000000	10.731047	13.071838	2.2020729	0.0000000	0.0000000
## 149	14.3270069	4.023264	4.373398	1.3154503	9.0032168	6.3641066
## 150	0.0000000	13.144188	3.889328	3.8893275	0.0000000	5.4423696
## 151	0.3256167	9.305663	11.147993	4.6902606	10.7351516	6.5106866
## 152	0.0000000	11.760238	5.992981	5.2301338	6.7113614	3.0310422
## 153	0.0000000	12.232232	5.659465	3.9269767	6.3716477	6.8501206
## 154	0.7119354	11.065165	6.010710	0.7119354	3.3576083	0.0000000
## 155	5.7273732	8.963760	12.237388	7.9830341	6.3156061	4.7227283
## 156	0.9973285	5.948883	11.549910	7.3344834	3.0827026	7.0458503
##	rs_SORCS1	rs_ARHGAP36	rs_SDR16C5	rs_GSTA1	rs_TF	rs_C2orf54
## 1	7.6576493	0.0000000	2.7157177	0.8928184	9.3809787	9.0535556
## 2	3.1016837	0.0000000	8.1283027	4.3059632	5.5167369	6.6379971
## 3	6.2125616	4.1559678	9.5060274	3.2347159	8.0974275	5.4407064

## 4	8.0922878	0.0000000	9.5077536	1.3860936	3.4171504	7.0761582
## 5	6.0610979	2.4217484	9.1616650	0.4815056	5.9998918	6.9004176
## 6	2.3644043	0.0000000	4.3722208	5.9468385	7.4406018	3.2953410
## 7	2.8420737	4.8463479	2.3901724	3.9685332	7.6129061	5.3613473
## 8	6.1825632	3.6002103	3.2770028	5.7510298	5.0440312	2.7889989
## 9	0.6035967	0.0000000	8.9162990	4.3745387	7.7025163	3.9585922
## 10	9.8983762	0.4930324	6.8717611	1.7842946	5.1046721	0.4930324
## 11	1.0026665	2.2265702	7.8254549	1.2253983	5.6001359	9.2891511
## 12	2.8680941	0.0000000	1.9873936	3.4109923	8.3925879	4.3676646
## 13	0.0000000	0.0000000	1.5089864	2.2302645	3.2183782	6.0359076
## 14	4.3531115	2.6694577	6.0736896	1.8800977	7.1056906	7.9715436
## 15	9.8005033	2.4026130	5.8443304	0.0000000	3.5507899	3.3121714
## 16	6.8795992	2.2301108	9.1814085	0.0000000	2.4892089	2.9858647
## 17	1.6277469	0.5039593	4.2775831	8.6671768	2.6858953	2.7766936
## 18	5.0475951	5.0641543	8.2985681	2.3785394	7.5756686	2.1493894
## 19	3.7963589	6.3285511	10.0498558	4.2077523	7.5553744	3.7963589
## 20	5.1952413	0.0000000	9.1908548	2.4850146	5.0896126	8.0076367
## 21	5.8148606	0.0000000	7.5842034	0.8537562	10.8541403	7.6319519
## 22	0.0000000	0.0000000	3.6942116	8.0453753	13.2920688	6.5109255
## 23	0.5566992	0.0000000	6.1142733	0.5566992	6.9364401	9.1107547
## 24	0.7984238	1.5099998	1.3094673	3.7620298	8.1911012	7.8325426
## 25	4.5188435	0.0000000	9.9355132	1.1951586	4.7086894	2.5450788
## 26	0.8469546	7.7681274	4.5787697	3.7844935	7.9669795	1.8728288
## 27	9.2097085	3.0309716	10.3276364	4.7646646	7.6076699	3.5111770
## 28	6.6802456	0.0000000	6.4804299	0.5002922	1.8019864	5.4217383
## 29	4.6150572	5.1802593	8.4890997	1.4895943	5.4526185	3.1916574
## 30	6.2058441	10.7346938	8.9826400	4.4709142	8.2713608	5.6124764
## 31	0.8437427	0.0000000	9.6553372	8.9898001	5.0865503	3.2240403
## 32	7.8307795	0.4339209	8.0083793	1.2651368	5.9307373	9.0482719
## 33	6.0560004	4.7473337	7.8533189	5.8849446	9.9168340	7.0177727
## 34	4.8148272	0.9074291	8.4273439	4.1759477	6.3342250	8.5704607
## 35	2.4304994	1.8324040	10.1548704	0.0000000	6.7330655	6.8197308

## 36	4.8904467	3.9180141	3.5476966	6.5584529	8.2309004	6.4776595
## 37	9.8756598	0.0000000	8.9999358	3.3276874	6.7970428	4.0441493
## 38	0.3576083	3.1035480	9.1335245	0.3576083	3.3622174	6.9068149
## 39	1.6751836	0.0000000	10.7048024	3.4712785	4.8618809	9.0948066
## 40	5.0770421	1.5493242	6.8575419	3.5357171	8.0566578	8.1542070
## 41	0.0000000	0.0000000	1.9814143	3.3925647	10.2501598	6.8539532
## 42	1.0865120	1.8567069	11.3018555	0.0000000	5.2790329	9.7887709
## 43	0.0000000	4.2006456	0.0000000	6.3041551	10.9970382	6.7247921
## 44	2.5078961	14.7268697	9.7525977	2.0444641	6.8773958	6.5324681
## 45	3.5529795	1.5617905	6.7001220	0.9826560	8.1426217	3.0566876
## 46	5.2136700	1.0663992	8.4393293	0.0000000	7.4449900	6.5091954
## 47	4.5278023	0.0000000	4.4699381	0.3810618	8.0041851	8.9199764
## 48	5.2136933	8.7098000	6.5680808	4.5741500	8.9951453	10.3116098
## 49	11.4373409	9.9507170	7.6984949	0.0000000	4.4825515	7.7024449
## 50	4.6154398	13.3083629	8.5128609	1.3842709	7.3686322	6.3434025
## 51	0.3971458	0.3971458	0.7081431	5.8899991	10.4605701	8.5600496
## 52	9.5526691	0.0000000	10.7465616	0.3399355	4.8659930	6.4573924
## 53	1.7211539	0.9887029	7.6732547	0.7279640	3.1497959	11.3581666
## 54	8.5018682	2.2934882	3.4030904	0.7735744	1.8004961	5.4686354
## 55	6.8404091	0.3765127	8.2630419	2.1946544	6.7231653	1.8810381
## 56	0.0000000	0.0000000	0.0000000	7.9843478	6.6593737	8.8679974
## 57	5.3352939	0.0000000	6.0913973	5.4229326	9.7113109	2.6821687
## 58	5.9805875	0.4008658	8.4225518	5.6441735	6.8855975	6.4563183
## 59	0.3723950	0.0000000	7.4072448	3.6077327	8.2509014	6.8888005
## 60	1.6588284	2.4815573	2.4101511	0.6223682	4.6900203	8.0128977
## 61	11.6179508	0.0000000	2.5532376	0.0000000	7.5582385	0.3832757
## 62	9.8086090	0.0000000	2.4464415	1.9880848	6.8031534	0.3748447
## 63	2.6816741	3.3892915	1.0588014	1.3922075	3.9403923	1.9923334
## 64	5.2877567	9.4919998	8.5947053	2.3610384	8.0764330	8.7594029
## 65	2.3571015	0.0000000	5.2521318	8.2226090	5.7489952	6.4885005
## 66	7.1202845	0.3494785	8.9548887	0.3494785	6.1750714	3.7069615
## 67	3.4159074	9.4583416	6.3047301	6.8125958	10.6150579	4.6638911

## 68	8.2928126	2.0393139	7.1707633	1.3534927	8.9153377	2.6525783
## 69	6.2513631	4.6440639	5.6281933	6.6168679	7.1085433	8.5580602
## 70	3.4583558	5.9538356	4.7829327	0.4270698	1.2498700	6.6018183
## 71	8.0947977	5.0435457	10.2025241	1.3470420	5.8500693	6.5110774
## 72	5.9876028	2.7467642	2.3754287	4.0869451	6.9046274	4.6433310
## 73	2.3562847	0.5994130	4.5801696	0.0000000	7.5641990	3.5938199
## 74	10.0007890	0.0000000	11.4482163	0.3683772	5.0694057	0.6614760
## 75	4.2789289	7.1362991	7.0966941	6.9264134	11.1640589	4.5763468
## 76	8.7909300	0.0000000	1.5295711	0.0000000	5.3035689	6.1070789
## 77	3.8317050	1.0131406	3.2713958	6.6841595	11.1490214	1.6025044
## 78	0.4165155	0.4165155	7.1520982	10.5825778	9.5558802	8.2662909
## 79	3.9953488	0.0000000	2.2042033	6.4357453	11.1818758	0.0000000
## 80	0.8579014	0.0000000	0.0000000	7.8486949	12.0231539	9.7518386
## 81	3.7221928	7.2410078	5.3578229	1.5614972	11.2820790	5.7726458
## 82	4.9992514	2.1992169	3.9835044	6.7828724	8.8409862	3.1831053
## 83	8.8487725	3.7237005	2.3916028	1.2186572	6.3522783	8.8108990
## 84	3.1428872	0.0000000	9.3346029	0.3346827	4.5027761	5.5611459
## 85	4.3866040	2.7674641	1.2528395	6.1210776	3.0342685	5.9248363
## 86	8.2636598	0.0000000	0.0000000	0.0000000	1.7201033	0.0000000
## 87	6.1709445	3.5329403	9.8330542	0.0000000	5.9105888	8.2418326
## 88	10.3238154	0.0000000	7.9622338	0.0000000	1.8007032	1.3163196
## 89	0.4998841	0.4998841	6.9637319	9.1305144	9.6599087	6.9589378
## 90	8.0075801	0.0000000	8.4483216	0.0000000	2.1846929	2.5392581
## 91	1.4817123	0.0000000	11.5354561	0.4421208	2.5896916	10.1362445
## 92	7.1329274	0.0000000	9.3139408	2.9219885	4.1735672	11.3371337
## 93	0.7464848	4.6856767	0.4209405	0.4209405	3.3432230	1.8916914
## 94	7.4740369	0.8949923	8.3772912	2.6223682	5.3715972	9.8227055
## 95	2.1982427	0.0000000	7.0459627	0.0000000	3.0318186	8.8223678
## 96	1.2159270	0.0000000	10.7624501	0.0000000	4.2869255	4.8689731
## 97	2.3747891	0.0000000	2.9778294	1.6291468	6.8962961	3.8235354
## 98	8.8088918	0.0000000	2.9193973	0.4281424	4.8401308	2.2633349
## 99	1.5393822	0.0000000	4.3717610	1.5393822	5.4138073	7.8933149

## 100	6.0194907	9.1194140	7.7129224	0.0000000	3.9763086	0.9873936
## 101	2.0429595	0.0000000	9.1778017	10.1723349	4.2238318	7.3163947
## 102	5.5172757	6.9236246	7.8008999	0.4854268	3.3504972	0.0000000
## 103	7.4385216	0.0000000	7.8030830	0.0000000	0.8312287	4.4955928
## 104	2.3934437	3.4152719	8.3446683	0.4716557	1.7313570	9.3839589
## 105	11.0657024	0.0000000	10.0437490	0.0000000	3.5106835	5.8536240
## 106	9.2192811	0.0000000	9.7897482	0.9542708	5.7666402	2.9773715
## 107	10.2822518	1.2911910	8.2994571	0.0000000	5.1297158	0.0000000
## 108	6.6177554	2.4202398	8.7379919	1.2933116	4.1795190	4.4523516
## 109	3.4330396	2.4475263	7.5655949	3.2424806	6.3272580	3.0998338
## 110	8.0064910	0.7357821	9.5914459	6.1332943	1.8723560	4.6410893
## 111	0.7088494	0.3975839	6.7452602	1.1820566	6.2694465	10.7674136
## 112	9.6556767	7.7982929	7.7599940	2.7722024	6.9332433	1.4147309
## 113	6.0386249	0.0000000	8.7670595	0.0000000	1.5900031	8.4041040
## 114	6.4733583	0.0000000	7.2550012	4.1132171	3.3197624	5.7255639
## 115	0.0000000	0.0000000	10.0890728	4.8691953	2.9271759	10.1205453
## 116	4.8450635	1.8523984	6.8605768	1.2050797	1.9772066	8.1295252
## 117	10.1982076	0.9849174	4.6290885	1.3038100	5.0998212	1.6795139
## 118	0.7000845	0.0000000	10.0494583	6.3935724	1.5229597	2.2472288
## 119	9.1618496	8.7763972	9.3940800	0.0000000	7.7022953	8.2952106
## 120	5.2274831	0.0000000	0.3405053	0.3405053	0.8467942	3.0332644
## 121	4.6183209	2.0606354	2.2093910	3.7261555	6.8016411	6.9411638
## 122	8.6594048	1.7816115	8.4512074	0.0000000	5.3347899	4.3821969
## 123	8.2378476	0.0000000	7.4817680	2.8923133	6.0039350	5.6715425
## 124	6.6375146	0.3852654	10.8344045	1.3394225	5.1282975	9.7734632
## 125	0.8487982	0.0000000	8.0570083	3.3520664	2.4343747	6.9277175
## 126	8.2250527	0.0000000	0.5077185	0.5077185	4.0165944	0.0000000
## 127	4.5042835	0.0000000	4.5705601	0.7750927	1.6479591	6.5018197
## 128	1.8443455	1.1053428	6.7713627	0.0000000	2.4869717	5.5564202
## 129	0.0000000	0.0000000	10.0823252	0.0000000	1.8139351	3.4677881
## 130	0.0000000	0.8701871	9.3950092	0.8701871	2.3616280	7.4703969
## 131	9.0660219	0.4403144	8.7105165	0.0000000	3.0246388	0.7771988

##	132	5.1626773	0.9034240	8.2742099	3.6726064	7.2849148	7.8341423	
##	133	6.0396232	0.0000000	6.8087853	1.3620490	5.5526353	10.5698955	
##	134	2.5392333	0.0000000	9.2292702	1.3242346	6.1757022	9.8608720	
##	135	7.5786059	0.0000000	7.5900967	2.7673582	2.1252874	5.7104042	
##	136	3.9575525	5.2553270	10.1202556	2.2773302	5.9474254	4.8474809	
##	137	7.0964970	4.3403985	7.3651457	1.6326405	4.3651186	5.0687998	
##	138	1.8445463	0.6561760	2.6282603	1.9558335	2.4872291	0.3650206	
##	139	0.9238718	0.6763577	0.9238718	0.0000000	2.3748726	7.9526190	
##	140	4.7564095	0.5056877	6.4229511	0.5056877	1.6318493	1.8151245	
##	141	7.4404980	2.2088918	3.3588604	5.3665880	11.7690652	2.5437186	
##	142	2.4680098	0.7633266	8.5418354	3.6445947	11.2373301	8.9372128	
##	143	7.3256068	0.0000000	3.0379269	9.2349822	9.5865204	0.4443490	
##	144	3.5062338	0.0000000	10.4399872	1.2337040	4.8769982	4.9205744	
##	145	0.8990209	0.8990209	7.1783711	4.7048332	7.3359709	6.4074513	
##	146	9.2618319	0.9565771	9.1141366	2.8308232	3.4433016	4.1645610	
##	147	2.9308509	7.3805831	4.9963571	0.4521737	6.8514367	7.9541166	
##	148	2.3789832	0.0000000	0.6782522	4.4200916	5.2785461	2.3789832	
##	149	6.4548652	0.0000000	8.4501741	2.1209491	1.0817487	1.0817487	
##	150	0.0000000	0.0000000	0.0000000	5.6782776	6.1216786	2.2280183	
##	151	7.8826644	0.5912007	10.0121854	1.7132999	7.6239422	3.6019817	
##	152	0.0000000	0.0000000	0.0000000	0.5010060	2.4768483	9.4667994	
##	153	0.8221999	0.0000000	10.6437189	9.2914841	1.8829951	7.3219407	
##	154	2.1727435	6.5905841	3.5268576	5.9375115	9.6387476	5.9818755	
##	155	0.6269530	7.8817986	8.9463563	0.0000000	7.8717759	7.0462979	
##	156	6.4209270	0.0000000	8.2137866	2.5804591	2.9022087	6.1844985	
##		rs_S100A7A	rs_KRT15	rs_CYP4F22	rs_GLYATL2	rs_CAPN8	rs_TMPRSS4	rs_CASP14
##	1	0.0000000	9.793387	11.9018640	5.9503121	8.6662943	2.4016305	0.0000000
##	2	0.0000000	9.646874	7.5744429	7.7685330	7.4156716	2.9070252	0.4448791
##	3	1.8321204	8.320169	3.7481499	4.8295858	8.7740052	7.2381859	2.4301782
##	4	0.0000000	8.163035	2.8981890	0.4889263	7.1680593	1.7742494	0.0000000
##	5	0.0000000	13.052273	3.6877214	5.3993215	8.4100027	2.5246655	4.0401648
##	6	2.9528367	12.505127	1.0266584	9.1769231	6.1606661	4.4767446	0.0000000

## 7	2.0304067	12.733787	5.8694372	10.1879031	3.1856604	0.8248086	2.9894660
## 8	0.0000000	13.778411	1.4534912	10.6349478	0.4304994	0.4304994	0.0000000
## 9	0.0000000	12.434968	0.6035967	3.7515923	0.0000000	7.9529468	0.0000000
## 10	0.0000000	8.663782	8.6256004	6.3372348	6.4954377	0.8598106	0.0000000
## 11	0.4164074	9.455128	3.0635547	4.0924527	6.2844549	7.3510417	4.6099440
## 12	0.0000000	6.870511	10.9995284	1.9873936	7.3968745	9.0384614	7.3582890
## 13	0.5474498	12.199924	2.3656086	7.3968787	0.5474498	1.9142201	0.0000000
## 14	0.0000000	15.950970	4.7975163	8.1925641	6.7846257	5.5621386	7.6100651
## 15	0.0000000	14.024368	5.8079885	6.8893823	11.8277882	5.5353500	0.0000000
## 16	2.0807600	6.536550	7.8677705	6.1432628	9.0112208	0.0000000	0.0000000
## 17	1.8108132	11.218881	9.5348917	3.2897312	4.0045194	9.2390278	0.5039593
## 18	0.0000000	11.862262	12.5669624	4.5326848	8.4047805	4.7732526	0.0000000
## 19	0.0000000	10.667274	8.4067956	8.7412169	6.1938683	2.4814023	0.0000000
## 20	8.7790016	6.974192	1.7221162	7.6157620	6.1981837	7.9006567	0.3644604
## 21	8.7373809	7.515858	3.7123537	1.9354975	5.8756253	3.7985586	8.3374881
## 22	6.4236370	8.256339	0.0000000	6.8257627	0.0000000	8.0588073	8.8755912
## 23	0.0000000	8.240093	3.9631782	10.3084509	4.2397723	8.5264824	8.4014747
## 24	1.5099998	10.818751	3.0040879	10.2341880	1.8428984	1.3094673	0.4537546
## 25	7.1020870	6.887069	9.4736631	4.0702863	9.3957008	1.9641398	0.0000000
## 26	0.6158871	7.902623	7.0267569	2.6610427	9.2024662	6.6444894	0.0000000
## 27	0.0000000	13.200073	5.9283608	6.6896318	6.9121768	2.7525131	0.0000000
## 28	0.5002922	6.142358	3.3969404	3.2786836	5.3648280	5.6884573	1.4103411
## 29	0.0000000	9.257747	8.5918327	4.3424765	9.0379936	13.3217878	2.8129294
## 30	1.5147535	11.694072	7.1132942	7.6947799	8.3473813	2.7957877	0.4557546
## 31	2.8791764	11.941705	8.3714839	4.2387792	5.8334923	8.7828315	4.2387792
## 32	0.7670615	13.478249	5.5749098	6.8282203	8.1362268	5.9472407	0.0000000
## 33	0.7727302	12.264823	5.8762714	6.6259762	7.2470094	0.7727302	0.0000000
## 34	0.0000000	10.021106	9.9841641	6.3575203	4.4604674	1.2100771	3.2863785
## 35	11.3744202	5.665683	6.4963217	14.2017078	5.5689168	1.6759965	4.3756303
## 36	2.2779550	11.307318	7.7645226	7.9152944	4.3089942	2.2779550	7.1206733
## 37	0.0000000	11.021317	6.4587183	6.9353973	4.8570404	4.2539968	0.0000000
## 38	4.7484827	6.115992	1.7006617	6.4065044	6.3177111	2.3040145	9.3640946

## 39	1.2117598	3.352377	1.6751836	8.9928942	7.2801388	6.2061099	0.0000000
## 40	0.0000000	11.095330	6.9982689	8.1411374	0.7157177	2.6913555	2.6177921
## 41	3.2002532	11.404246	1.7196216	7.2545638	1.3995539	0.4088205	2.9170498
## 42	0.4589069	6.439106	3.6987963	10.6847183	8.9879694	1.5224073	1.3208312
## 43	7.8068119	10.724927	7.2322146	10.9674694	0.0000000	5.5793099	9.3336619
## 44	2.0444641	8.822086	7.5846048	9.5316158	8.4229654	7.7147868	2.1498447
## 45	0.0000000	7.699956	5.0953717	4.4261171	7.7334262	7.0686246	0.0000000
## 46	6.9489454	7.854929	10.1845791	2.7730891	9.6315314	4.8801467	0.0000000
## 47	0.0000000	5.266221	5.3326614	5.7763383	2.0082717	0.6822137	0.6822137
## 48	0.0000000	11.387702	6.0939615	8.8181038	6.0568826	4.8590005	2.4910578
## 49	0.0000000	11.163468	4.1305026	5.9054664	8.7127502	11.1521404	1.4374408
## 50	9.0031482	12.070086	8.0059574	3.7614342	10.7954800	7.8313028	0.0000000
## 51	0.7081431	11.526802	0.7081431	8.2550257	0.0000000	6.6824469	0.3971458
## 52	3.7816115	5.820843	5.2350798	3.1651402	8.1682364	8.7123131	0.3399355
## 53	7.8291842	12.201946	2.6439024	8.9081206	5.5324105	3.8202300	5.9701611
## 54	0.0000000	8.351718	5.4915677	2.2934882	6.8791960	8.4833958	8.4205531
## 55	0.0000000	14.364057	5.1890338	3.3138988	9.8255637	2.2856981	0.0000000
## 56	0.0000000	11.670904	0.4924172	8.8579126	3.2545185	1.7828279	7.3335391
## 57	1.8190550	13.418039	7.9291726	5.7575140	8.7594645	2.7611576	3.2184557
## 58	0.0000000	11.946257	9.3945890	7.7437701	8.2556745	7.4267503	0.0000000
## 59	0.0000000	9.712769	1.3059705	0.3723950	2.2715751	1.1230040	0.0000000
## 60	0.6223682	5.869062	5.3160588	4.9386434	5.7071935	8.7229765	1.0557510
## 61	0.0000000	8.427525	5.7618251	6.2910049	1.7802261	1.3343967	0.0000000
## 62	0.0000000	7.335589	0.3748447	4.2099290	3.0734432	6.9173410	0.0000000
## 63	0.0000000	13.995311	4.7106412	4.9057215	4.5194727	4.2587978	2.3397075
## 64	0.0000000	9.410143	5.4050938	3.7002510	9.4223737	1.6176276	0.4994760
## 65	2.1039004	10.927228	2.8171525	6.9171250	5.0394806	5.9801693	10.3716626
## 66	0.8656813	8.505081	6.8863111	11.5679618	11.1351752	6.4301966	9.0959626
## 67	1.0005049	13.145036	5.8917157	10.2108207	8.7300139	1.2229282	0.7373406
## 68	0.0000000	10.219188	8.7972413	6.6471044	8.0821096	10.3542176	4.2510373
## 69	0.0000000	12.494304	8.5484940	7.7647754	8.6348571	2.7357821	0.0000000
## 70	0.0000000	4.160493	1.4450380	5.3804663	7.4511732	5.2816983	0.0000000

## 71	7.2169631	6.538721	1.2161755	2.1071187	9.4980508	2.8430995	0.0000000
## 72	0.4655044	8.453604	3.6786353	6.2839792	1.7158055	0.4655044	0.0000000
## 73	0.3305584	4.699368	4.3626452	3.2477149	1.7302269	0.8258670	0.0000000
## 74	0.0000000	16.051200	2.7692005	3.9031926	8.2176384	6.5058560	0.0000000
## 75	0.3978030	14.279540	8.9269314	6.7923517	8.7478200	5.2044929	0.3978030
## 76	0.0000000	8.169021	2.8152270	6.0341805	9.8027742	11.1457679	6.4248163
## 77	0.0000000	9.474284	3.2713958	3.5475115	0.5937840	6.2737900	0.0000000
## 78	0.7392433	12.978283	1.4186757	7.0169654	4.7425291	5.2408447	4.7060000
## 79	0.0000000	8.920368	0.0000000	3.2090478	0.5997939	6.3653303	0.0000000
## 80	0.4918018	12.093366	0.0000000	7.3743727	0.0000000	3.7209898	5.9239478
## 81	0.0000000	10.606726	3.9211602	7.5232632	6.2779847	1.9735745	1.5614972
## 82	0.0000000	12.647236	5.6551743	5.8247755	6.5399668	0.0000000	0.0000000
## 83	0.3397075	8.744587	1.6432559	5.6772996	8.6666231	2.8818799	0.0000000
## 84	1.9531162	10.139748	2.6373552	4.2491191	7.4021270	4.0128904	2.5108860
## 85	11.8474857	11.450871	2.2847510	5.3418933	1.6839210	4.2037806	5.1073364
## 86	0.0000000	11.214145	9.4339689	3.7918037	4.2575840	0.0000000	0.0000000
## 87	0.0000000	14.989985	4.7780771	0.7319652	9.1211431	5.9263529	0.0000000
## 88	0.9953036	6.190453	4.6634471	6.2002336	3.5150312	6.6772447	0.0000000
## 89	0.0000000	5.809368	7.0015242	4.8862770	7.4608523	1.9630672	6.5187334
## 90	0.0000000	5.901294	1.0094905	1.1804662	5.9670302	4.0839367	0.0000000
## 91	7.6821118	6.757649	2.0796341	4.1580057	6.4016049	2.7520635	4.3977277
## 92	3.2285417	9.846833	2.7402368	0.6763577	7.9749772	8.3290079	0.0000000
## 93	0.0000000	12.082750	6.7192190	4.2187579	8.9143579	7.6935873	0.0000000
## 94	6.0390594	8.053961	4.2518403	8.8678628	6.2762044	1.9505804	0.8949923
## 95	0.0000000	8.037465	6.6613705	10.1059799	5.2788992	1.4095810	3.7761250
## 96	0.0000000	6.021035	5.1274022	3.3590010	8.4154270	0.9121900	4.2539590
## 97	4.3741214	8.354276	1.7622638	1.3191555	0.3774014	0.3774014	1.8841681
## 98	0.0000000	9.786547	5.0800820	0.7579620	7.3307932	6.3611104	0.4281424
## 99	0.0000000	8.644368	1.6890755	5.2183123	8.2198074	9.4870610	2.8151655
## 100	0.0000000	7.426068	10.0095340	2.5639147	9.0555753	5.7565350	0.0000000
## 101	0.3335382	7.639807	4.4118397	3.4440044	9.0455910	4.7553042	7.7948467
## 102	0.0000000	8.308339	9.4850242	3.7865964	9.1472049	2.3219281	5.7813597

## 103	0.0000000	4.005840	8.5598115	2.0415584	11.4939139	3.7789760	0.0000000
## 104	10.0927299	7.058137	1.8902910	9.5193666	9.2474225	2.8455503	5.8542451
## 105	0.0000000	2.958026	3.5706329	2.5450293	7.5239477	3.3142470	0.0000000
## 106	0.0000000	12.726996	5.9455539	6.6312891	8.3991232	3.4595365	9.4814075
## 107	0.0000000	4.527984	9.2762719	3.4764854	9.5569101	1.2911910	0.0000000
## 108	0.3675947	7.729581	5.7183698	3.3212499	7.4279464	2.9399600	1.2933116
## 109	0.0000000	11.114287	3.3088414	6.6032480	3.4913529	2.9415383	0.0000000
## 110	2.6605408	7.681296	4.1402388	1.5830376	6.9705983	5.0121574	2.7345254
## 111	0.0000000	6.620564	2.2651668	9.4846594	5.4642500	8.8713579	4.4965646
## 112	0.0000000	13.967976	7.9396198	2.5845777	8.2008579	6.4535110	0.0000000
## 113	2.2075181	7.377291	2.2075181	7.8083876	5.7569165	7.8913548	1.1416290
## 114	0.0000000	6.572532	5.6415027	4.8221132	8.9537364	3.5003049	7.4624974
## 115	4.8985421	10.152107	2.3795932	13.5111703	1.1382247	6.4208697	8.7833581
## 116	0.0000000	9.290019	3.8461122	6.8194791	5.5145263	2.9121516	2.0921059
## 117	0.0000000	6.912427	5.9474301	3.1429852	6.0681441	0.0000000	0.0000000
## 118	3.0866649	8.235714	1.1694120	5.7739014	7.1889290	9.1969311	8.9108669
## 119	2.4472353	6.241934	8.0617406	5.9774860	9.7497087	4.6026588	0.4250295
## 120	0.0000000	3.574465	2.4659484	2.0683269	10.4454277	0.6156988	0.0000000
## 121	0.0000000	10.008427	3.9541312	5.5886487	4.6705911	8.0678710	0.5391340
## 122	8.9509728	14.321889	7.5970193	1.9208268	9.4818400	7.0515711	0.4311415
## 123	0.0000000	7.317163	3.6756353	2.3004459	9.2667228	3.0866649	0.4403144
## 124	0.6890307	6.354172	0.6890307	12.1857396	3.8849983	3.6235626	0.0000000
## 125	8.1092049	5.474180	3.0371538	1.4865599	9.6552917	6.3836870	0.2632748
## 126	0.0000000	10.613170	2.8732423	3.9784977	1.8199951	4.8499642	0.0000000
## 127	0.0000000	3.894372	3.7869518	5.1496699	7.1943727	8.5783999	0.0000000
## 128	3.3109363	7.462011	4.9242472	4.1217449	9.0688325	6.9228056	5.8069375
## 129	0.0000000	7.683932	2.2551986	0.8786861	7.5450703	8.4949999	0.0000000
## 130	3.6060513	7.740979	2.3616280	9.6710809	6.1572762	3.5561473	0.0000000
## 131	0.4403144	7.063528	7.7728200	0.4403144	9.0602466	4.2631321	0.0000000
## 132	1.2052048	12.078684	8.6890964	5.6491182	7.4083314	0.9034240	0.0000000
## 133	1.3620490	9.268252	5.0183449	12.5697426	3.8028549	9.6424019	2.1806571
## 134	6.1757022	6.656276	3.0908365	9.5679726	8.3157917	3.9484420	3.1408932

## 135	0.6883147	7.256834	4.9805600	8.1092832	8.2125119	7.5529995	8.0101208
## 136	0.0000000	8.557661	3.9967232	3.5469932	9.6661492	10.6134454	0.8914970
## 137	3.1215294	9.238264	5.1277818	4.9430727	6.8905330	7.2370656	2.2784309
## 138	0.0000000	14.138602	2.3308739	9.7172852	0.8982471	1.2867038	0.0000000
## 139	0.0000000	10.534757	3.0834857	9.1113308	4.9216458	3.2286340	7.5143732
## 140	2.9480401	4.964708	1.4218561	0.0000000	6.6749055	7.4565039	0.0000000
## 141	0.0000000	7.518591	2.5437186	10.4256314	1.9328171	11.1412444	1.1425441
## 142	5.7266405	8.395650	7.5348919	7.7696818	7.0147291	1.9219694	8.1253882
## 143	0.0000000	11.076004	3.4245997	9.3534605	1.0579701	5.6137320	3.0379269
## 144	2.0544665	7.297755	2.6795589	3.8141402	5.8295553	3.3235142	2.0544665
## 145	1.1064153	11.755442	1.8457510	8.6248810	2.8183598	0.6567252	0.0000000
## 146	1.2696915	6.234923	5.6684284	6.1514672	6.5566225	2.5118981	2.1018517
## 147	0.0000000	12.409352	3.9406742	3.0637963	9.2832430	2.1086248	0.0000000
## 148	0.0000000	10.377787	2.0004327	4.0536501	0.0000000	0.6782522	3.3224474
## 149	7.7000339	3.771326	3.9556569	5.4030598	10.0293042	0.0000000	0.0000000
## 150	0.0000000	8.369824	2.4870232	7.5826727	0.5465611	0.5465611	0.0000000
## 151	0.0000000	10.370854	4.6760360	6.2081290	8.1896704	0.5912007	0.0000000
## 152	1.9657289	6.084086	6.1016354	2.4768483	8.7195887	8.2123495	0.0000000
## 153	4.9341721	6.600142	0.8221999	1.8829951	9.0410570	3.5071223	1.1058122
## 154	0.3994446	13.470327	2.6096841	8.1429173	4.3545721	2.2713659	4.1364293
## 155	0.3472121	9.782749	4.5765403	6.4293097	5.3861867	4.9887983	5.3384672
## 156	3.5800128	6.776009	3.3874315	2.8027309	3.5186358	2.8027309	9.8879072
##	rs_LCN2	rs_PGLYRP2	rs_SPAG6	rs_CAPN6	rs_CCL21	rs_SLC7A4	rs_MAGEA3
## 1	3.9602986	8.6293133	0.8928184	7.3213662	6.7562347	7.3367413	0.0000000
## 2	4.9361432	4.4559453	0.4448791	3.8800782	6.3934351	5.6472224	0.0000000
## 3	6.1320791	5.1745902	4.2968758	6.7957825	8.8908975	7.4186622	0.0000000
## 4	1.1442422	2.6426092	0.8535167	5.8947499	7.8388100	6.4879108	0.0000000
## 5	4.5596876	6.2974574	0.4815056	3.3935123	6.4621047	5.1803667	0.0000000
## 6	8.2548425	4.9819303	1.0266584	10.4952828	11.1330223	1.0266584	0.0000000
## 7	7.3139532	1.3463045	2.0304067	12.5860670	8.1540135	2.0304067	0.4706150
## 8	4.9169447	1.0308304	1.6259250	7.9636521	6.8418411	2.2705588	0.4304994
## 9	9.4919621	0.0000000	0.0000000	4.5765282	6.3025421	6.9375115	0.0000000

## 10	0.4930324	6.2394916	0.4930324	4.0780291	5.9281334	6.0573160	0.0000000
## 11	7.9614126	4.2274099	0.7390704	6.5288041	5.8714568	1.2253983	0.0000000
## 12	1.5125809	7.4406242	2.8680941	7.3936985	9.8745691	0.4548076	3.9842065
## 13	7.4625260	0.5474498	1.7257848	3.5941305	6.1148896	0.0000000	0.0000000
## 14	6.1974349	6.9501674	2.5088596	7.1126949	8.9175920	2.3280897	0.0000000
## 15	6.4328809	8.1784174	8.5497396	4.9713458	2.8225466	7.5590612	0.0000000
## 16	8.0496275	6.3451000	2.3654686	0.0000000	0.5474498	8.1952930	0.0000000
## 17	8.4669648	2.5889724	1.6277469	1.9732072	5.2557802	8.7935246	2.7766936
## 18	2.3785394	11.3530025	3.1104468	4.8129910	8.0427302	6.8427765	0.4665488
## 19	6.6622710	8.2486202	4.1390274	8.0694047	8.4511715	7.3247134	0.0000000
## 20	9.4421971	5.1017383	0.8970080	6.1346892	5.1608839	0.8970080	0.0000000
## 21	7.7849881	4.0652362	3.0469625	2.8986921	4.8704338	0.4891319	1.3864799
## 22	12.0831929	0.0000000	2.2347466	8.5927956	3.3307018	0.0000000	0.0000000
## 23	1.5278210	2.1030276	0.5566992	1.9355352	7.8938791	0.5566992	0.0000000
## 24	9.0036298	0.7984238	0.4537546	9.9781058	10.4266280	0.7984238	11.2711846
## 25	5.2871066	9.0439621	8.7648172	5.0408924	4.1770009	0.7179122	0.0000000
## 26	4.0853227	3.6684482	0.0000000	6.3423485	3.8918858	1.0461418	4.6105642
## 27	7.5201716	5.3635986	1.8117998	6.5419608	9.6153670	7.5480890	0.0000000
## 28	1.4103411	2.8515192	1.1657512	2.3631991	7.7334459	0.8710551	0.5002922
## 29	3.4913529	11.5982654	4.2077914	5.7719278	6.7055011	3.8935952	0.0000000
## 30	5.9867045	7.3681170	6.1004311	9.0438333	8.4658059	4.8695951	0.0000000
## 31	8.7880279	7.5708424	1.1322478	3.4506570	5.2309139	5.5815079	3.0958063
## 32	6.4481708	4.3923174	0.7670615	3.2886391	6.1604019	1.4617381	9.8074961
## 33	6.1308382	5.0391823	3.1363719	9.0514224	9.5741146	3.4487028	0.0000000
## 34	4.9435604	7.9045834	0.0000000	6.2537340	8.5654673	0.9074291	0.0000000
## 35	12.8982934	6.5195230	0.7922723	4.4739233	6.8702389	1.8324040	8.1928890
## 36	6.7711421	1.4388251	3.6495695	11.6593051	9.7814423	3.6495695	6.1353994
## 37	4.7686660	5.3887199	0.5165195	6.4935977	9.6538538	1.8411278	0.0000000
## 38	7.5001471	3.5471660	0.0000000	2.6655974	1.9309644	0.3576083	9.3775804
## 39	4.1787385	0.5247658	8.9990927	4.3745318	5.1202690	1.2117598	0.0000000
## 40	4.7382490	5.1700532	5.9619914	5.4709468	7.3559069	5.6931691	0.4017397
## 41	5.4568653	0.0000000	3.8182268	10.1300192	0.7270927	0.4088205	4.4998268

## 42	7.2258446	3.3734255	0.4589069	5.1172088	8.6847216	0.8066128	0.0000000
## 43	9.9742771	2.3255303	2.8563085	10.3429807	4.9058804	5.2979801	10.7479247
## 44	3.5392581	4.4347350	0.9542708	5.4430529	7.5489344	2.1498447	0.0000000
## 45	6.4653166	5.1158240	0.0000000	5.8725604	6.3405445	4.2522945	0.0000000
## 46	5.4725820	9.2468520	0.7903550	4.0915391	7.2269911	6.4074887	0.0000000
## 47	0.6822137	2.6180272	0.6822137	4.4300310	7.4245703	3.9551547	0.0000000
## 48	8.0436988	4.8874424	3.1374216	7.1047151	8.3058219	2.4910578	0.3661403
## 49	6.8548609	6.5119424	0.0000000	2.9162855	5.9123026	1.8329305	0.0000000
## 50	9.7760298	8.6920701	0.4028313	5.5364975	8.4636927	6.7795933	0.0000000
## 51	11.2346649	2.7448930	0.0000000	11.9424146	1.5366000	0.0000000	4.6666430
## 52	6.9039614	5.9811197	8.8746270	4.5917811	4.9302595	1.5158638	0.0000000
## 53	5.1611863	1.4009204	0.0000000	4.9629515	6.6357733	0.0000000	0.0000000
## 54	7.1189867	6.6486783	6.0426969	4.7108615	7.6465889	6.7614781	7.4232672
## 55	6.0046834	7.4619959	9.0561117	5.9912225	7.3451666	1.3166092	0.0000000
## 56	10.0392772	0.0000000	0.0000000	5.5907457	2.2207943	0.0000000	9.7362533
## 57	5.8234156	3.3773459	2.5098985	9.9025747	10.3829731	5.5617935	0.0000000
## 58	5.7680678	6.2101550	3.3631290	7.7132642	10.2544019	6.2949993	1.1898562
## 59	9.3863275	0.9134160	0.9134160	9.0844792	5.8973639	4.2893476	0.0000000
## 60	5.9084647	4.6126120	0.3444877	5.7798139	6.5344943	0.0000000	2.7363451
## 61	3.0538586	4.8118152	1.1488690	5.8095791	6.3567706	6.9214375	0.6858953
## 62	5.1822553	0.3748447	3.9300087	5.0202222	7.7655420	0.9184626	0.0000000
## 63	3.9403923	6.1689188	2.4148932	3.5972690	6.9376928	0.8579014	0.0000000
## 64	3.9133203	3.5037812	9.4162712	4.9443431	7.3356548	1.4086575	0.0000000
## 65	6.0050833	0.0000000	0.6320820	12.9183460	8.8568880	3.5510114	9.0835950
## 66	0.0000000	9.5769132	7.4672037	4.5697037	5.1840660	0.0000000	0.0000000
## 67	7.5061068	4.9858237	6.0813205	10.1388063	7.4355844	5.9934140	0.0000000
## 68	4.6410257	7.1769789	3.0275433	7.8095103	9.6805714	5.5170048	0.0000000
## 69	7.2759894	6.7009168	2.4066727	8.4208529	10.4317152	1.8035990	0.0000000
## 70	5.8282355	1.7705331	1.2498700	0.4270698	3.0418562	0.0000000	0.0000000
## 71	7.2105321	1.2161755	8.2954898	5.3778977	5.8389946	1.3470420	0.0000000
## 72	3.8786371	1.8740887	1.8740887	5.7632256	7.4545847	5.7221873	0.0000000
## 73	3.1672776	0.8258670	0.8258670	5.8364847	9.2540370	0.8258670	0.0000000

## 74	1.2953116	2.8873498	9.8799583	1.8551127	4.6182504	0.9050428	0.9050428
## 75	7.8043873	6.8330912	5.7888345	8.7918863	10.2831803	6.2703514	0.0000000
## 76	3.3833449	7.7250997	1.3274574	1.0923428	5.7198132	1.5295711	0.0000000
## 77	6.3567988	0.0000000	1.3377111	7.4010877	7.5179142	6.9388786	1.6025044
## 78	7.9906526	1.5888046	0.0000000	3.1750615	2.5897875	0.0000000	0.0000000
## 79	6.2430273	0.0000000	1.0221192	6.9683995	10.4113253	3.7956215	2.0330882
## 80	5.8136606	0.0000000	0.8579014	9.4063470	0.8579014	0.4918018	0.0000000
## 81	5.8232500	2.2937236	3.8739313	8.7849106	9.7696299	7.0038439	0.0000000
## 82	7.7159627	3.6639025	1.4834160	8.8081224	10.8576022	6.1507506	0.0000000
## 83	6.6555551	3.8618164	9.0164097	5.2741051	4.6221221	0.8451086	0.0000000
## 84	5.7757327	3.3784423	1.3598585	3.8129910	6.5295680	1.6270465	0.0000000
## 85	5.5263787	0.0000000	1.2528395	13.6379080	4.7251685	0.0000000	0.3523066
## 86	1.2490205	6.6555865	1.2490205	0.0000000	0.0000000	9.0866142	0.0000000
## 87	6.1971734	7.4901200	0.4119685	3.3579883	7.1741637	0.7319652	0.0000000
## 88	2.7993567	4.7458881	2.4517782	5.8237086	5.0994509	8.1903571	0.5818815
## 89	4.1346235	5.1275507	6.6193925	0.4998841	1.1650436	0.0000000	0.4998841
## 90	1.4715517	1.0094905	0.3257318	3.0610849	0.0000000	1.0094905	6.4533793
## 91	5.6880628	6.1260209	6.4848181	1.6559471	6.3390839	0.0000000	0.0000000
## 92	6.1793379	2.8034130	4.4352285	1.1350094	3.6625132	0.6763577	0.9237957
## 93	4.6275368	6.1036634	0.4209405	2.2409859	4.1652688	0.4209405	0.0000000
## 94	6.6663746	5.7397266	2.8108955	7.0809134	8.8976374	1.4431823	0.0000000
## 95	7.2945463	6.0235503	0.0000000	3.8879736	5.7987297	0.6343145	0.0000000
## 96	2.8426772	2.3128684	0.5270703	3.5339620	7.7620378	0.0000000	0.0000000
## 97	9.3132629	0.3774014	0.0000000	4.6043916	5.5284307	1.8841681	1.4824869
## 98	4.7503760	3.7108340	6.1941343	2.1555550	5.0351796	1.2522945	2.7067957
## 99	3.5996272	1.5393822	0.7098200	3.1610331	0.9659874	0.0000000	10.1587748
## 100	7.9832382	11.0184337	10.7262695	4.9978614	3.7838862	6.8014833	0.5765705
## 101	7.8216311	6.2261655	0.3335382	3.9111355	5.9325809	1.0287813	6.8703006
## 102	0.0000000	9.7598882	0.8479969	1.3785116	1.1375035	0.0000000	0.0000000
## 103	7.2811928	5.3575520	9.1681348	2.3661963	1.4947740	7.8718855	0.6035967
## 104	10.1562029	2.0334759	4.7080658	3.0614306	2.2831217	1.3487423	0.0000000
## 105	0.0000000	3.0451459	0.5691022	2.2101083	1.5531147	6.4200966	0.3124328

##	106	6.3892054	5.3794893	4.9831031	1.8074374	2.2480186	1.8074374	0.3923174
##	107	3.7722552	6.6248276	9.9425850	2.3161457	3.2205931	8.9146070	0.0000000
##	108	5.6943175	9.0323130	5.1858983	1.8525982	4.5977457	7.9689351	1.7317915
##	109	5.6944679	1.6903724	0.9191494	7.2268129	9.9499482	1.4760706	0.0000000
##	110	3.6603126	0.7357821	5.3191193	2.1132671	2.5001392	1.7349589	8.2403010
##	111	0.7088494	1.5378427	0.3975839	2.6031456	2.5257933	1.5378427	0.0000000
##	112	5.8176079	7.3341982	0.5023306	5.8176079	6.3018126	1.8070251	0.0000000
##	113	10.3037435	3.2393828	2.7288565	5.5496199	7.8592385	7.1180814	2.6385836
##	114	9.1328835	5.5826102	1.2210109	4.6415518	0.9987732	0.0000000	0.0000000
##	115	8.1792592	0.0000000	1.1382247	1.4863025	9.5059645	0.0000000	0.0000000
##	116	2.7111204	4.0011807	0.9848445	0.7248249	6.1129399	3.9101474	0.0000000
##	117	0.5749250	2.8806268	0.5749250	5.1992994	5.7117041	1.5648171	0.5749250
##	118	10.9387701	0.7000845	1.8066953	4.7673158	6.7523231	2.7271581	3.2845882
##	119	9.9413546	5.5517375	9.0157710	7.0049957	4.9768493	4.6818203	0.0000000
##	120	0.0000000	1.7636240	10.4981532	0.8467942	3.5418617	8.3380580	0.0000000
##	121	3.1214796	3.6238201	2.3442320	7.0036270	9.3629380	5.1471398	0.0000000
##	122	5.0912217	9.7532982	0.7626465	4.9999504	5.0155689	1.4549655	0.0000000
##	123	6.6826028	3.3617543	4.8320191	1.9468805	3.3617543	2.4956952	0.0000000
##	124	9.0521439	0.0000000	0.6890307	5.6606891	6.7688486	0.0000000	0.0000000
##	125	8.3548739	3.1390438	9.5455352	2.9649900	3.4610046	6.3905903	0.0000000
##	126	6.2494776	4.1596534	2.2619219	5.2363855	6.3573233	7.7613212	8.6695959
##	127	7.2661278	5.0602290	1.0475384	2.2963693	1.2765562	0.0000000	7.1114602
##	128	3.6120104	6.3403629	0.0000000	2.3306158	6.2775069	2.3306158	1.7237770
##	129	4.2817428	2.3766516	7.7751309	3.4677881	1.9764736	0.5051796	0.0000000
##	130	7.5522195	1.1647219	1.1647219	2.4733973	7.2721679	0.4997821	0.0000000
##	131	0.0000000	3.8990403	1.0501186	2.8211183	0.0000000	0.0000000	0.0000000
##	132	7.0866776	10.8808172	8.0952050	7.9805498	9.2010974	6.4814733	0.0000000
##	133	8.5753411	1.7466137	2.8643149	5.5405171	7.8595503	0.0000000	7.0023481
##	134	8.1361857	2.2046416	5.3147980	2.8711931	5.3577631	0.9278206	0.0000000
##	135	6.7832065	2.8307218	0.3848235	1.5029925	0.3848235	2.0204844	0.0000000
##	136	5.0840685	5.0472330	1.9973647	5.2060493	7.7862827	3.5988297	0.0000000
##	137	6.4851917	3.3367975	1.7870145	5.7037763	8.1022881	4.2635828	0.0000000

## 138	4.2800581	5.3379679	2.4872291	3.1332840	4.8107464	0.0000000	0.0000000
## 139	8.1764180	5.4810276	1.1350751	3.7928345	1.6292400	0.0000000	0.0000000
## 140	7.7060373	4.2833218	1.4218561	3.0970545	1.8151245	0.0000000	6.9880552
## 141	12.6467467	0.4881036	0.4881036	5.1382820	8.5522699	0.4881036	11.2829382
## 142	4.9372314	8.3776131	0.4315695	2.5561841	3.2805110	0.0000000	0.7633266
## 143	6.2205853	3.2164549	0.0000000	11.2286393	3.3242778	0.4443490	10.7580339
## 144	10.6217579	2.7776196	0.5366498	5.3451338	5.5252922	1.8888114	0.0000000
## 145	10.9409239	0.0000000	0.8990209	11.5276152	4.8270772	5.7712993	11.2422494
## 146	3.8247984	5.5284213	0.5562087	3.6192721	5.9685078	6.7891489	0.9565771
## 147	9.8759359	5.8222483	0.7959331	6.1181977	6.9405990	9.0901982	0.0000000
## 148	3.4859549	1.7659590	1.4857875	2.8078495	7.4268384	2.2020729	7.7501087
## 149	4.6116681	7.5505206	10.4593336	8.2371387	2.7980920	6.5780028	0.0000000
## 150	9.7582885	0.0000000	0.0000000	3.2856537	3.3522359	1.9121516	0.0000000
## 151	4.9127552	3.5405109	9.0832658	8.3639061	9.4442710	8.2676102	0.0000000
## 152	7.7524703	4.7850431	12.1113129	6.6470770	3.8364493	9.2290055	0.0000000
## 153	8.7378358	0.8221999	0.4689482	0.4689482	3.7322692	2.2751859	10.8336079
## 154	6.1852779	2.2713659	1.1864372	6.6513603	7.6441671	0.9685700	0.0000000
## 155	1.7863036	3.2792781	0.3472121	2.9641398	5.1187791	4.9887983	0.0000000
## 156	5.3522854	6.6741329	0.5831339	1.3186928	5.4704555	1.8035164	0.0000000
##	rs_TSPAN8	rs_RIMS4	rs_MSMB	rs_IL20	rs_NEK10	rs_SLC13A2	
## 1	1.4402081	7.9577829	8.0815862	6.3794390	8.6479221	6.3110289	
## 2	1.0590091	4.7742125	4.2522945	2.4151637	4.2793821	2.8358432	
## 3	8.4912426	9.2579731	5.3004459	4.3752550	6.2820246	1.6757256	
## 4	7.1841573	5.7829196	5.3267027	1.1442422	3.2436691	2.4429966	
## 5	2.3109217	8.7324269	5.3581079	4.9221265	6.9930708	1.9158650	
## 6	6.8916452	3.6925946	7.7873606	2.8528179	2.3644043	9.5596270	
## 7	4.2574406	4.1674222	1.3463045	1.8873693	3.1231861	3.3583541	
## 8	1.4534912	6.2166915	3.3278454	0.7617108	2.5529426	0.4304994	
## 9	5.8872669	7.6210965	2.7473874	0.0000000	2.9549593	5.9492338	
## 10	0.8598106	10.5731830	5.5805284	6.2854281	3.3165947	0.4930324	
## 11	1.0026665	4.0049687	3.4642500	3.6678467	5.4425819	2.6674380	
## 12	0.0000000	5.3055000	3.4604018	7.6144095	2.4456473	2.6297063	

## 13	2.3656086	2.3656086	0.0000000	1.2537473	1.7257848	0.9433588
## 14	4.7623169	10.3217257	4.0369868	7.0114073	8.2024456	4.9302926
## 15	1.9480027	7.3089788	3.4600217	6.0986659	9.2980509	5.5353500
## 16	0.0000000	8.2640409	10.2610596	4.1758679	8.3151025	4.0609034
## 17	2.5889724	10.9877488	1.8108132	3.7593476	3.8871353	1.1726155
## 18	5.1442218	11.6123251	3.1104468	1.7185260	3.4994377	8.3867903
## 19	4.5452950	4.4157181	4.1153746	4.6804031	10.9644102	5.2355548
## 20	1.1040682	9.3384182	6.5116404	4.7006395	8.2379523	4.0709817
## 21	9.8378420	3.3043650	6.5205511	3.6672336	4.9097059	3.9939370
## 22	4.3179986	8.5537986	0.0000000	1.9571717	0.8668684	0.0000000
## 23	0.5566992	3.4446936	0.0000000	1.5278210	1.7460117	0.0000000
## 24	1.3094673	2.4423862	1.0764907	0.7984238	2.7102389	3.0690663
## 25	0.0000000	8.4572807	6.3562953	6.4119821	10.6394017	4.1246342
## 26	7.8945747	10.6077085	6.8713964	10.0579758	5.0993331	5.0186876
## 27	2.6736016	10.1694811	5.8317278	4.9601920	6.5964522	6.7045940
## 28	0.5002922	2.1097283	2.2420232	1.1657512	0.0000000	0.5002922
## 29	1.7701525	6.2543541	2.7497059	1.1410403	4.9464689	1.1410403
## 30	4.8324546	8.2093335	6.6358850	5.9867045	9.3607380	5.8069117
## 31	1.9188823	7.8912521	3.5021524	3.5999485	2.4251101	1.3725621
## 32	2.8001026	9.9732819	1.4617381	1.2651368	6.6278213	4.5733139
## 33	4.7473337	6.0712821	3.5394070	3.8540854	9.4568384	7.1131420
## 34	4.5167338	9.0363951	0.0000000	5.3048359	9.0519493	2.0231844
## 35	6.8657197	7.2662759	9.8980950	4.8666212	9.2128351	5.2181573
## 36	4.1089342	2.5123280	3.0482187	0.5137939	5.9178828	8.2309004
## 37	2.9795864	8.2583719	2.0047890	1.1962293	4.6745284	4.9802036
## 38	0.0000000	8.1710091	1.5700743	7.5201826	7.8681589	4.7333055
## 39	11.7598131	6.5137702	7.9895103	3.3523772	3.4712785	3.2227737
## 40	2.8919246	6.0967130	5.7545268	0.0000000	4.0083704	0.9733541
## 41	0.0000000	2.9783055	6.2234361	1.3995539	1.5684700	8.2668137
## 42	2.2465297	3.8931583	3.8563185	1.6991962	2.3561156	0.8066128
## 43	0.0000000	7.7894730	5.5244712	1.6911768	0.5318680	2.1911520
## 44	5.7331265	11.6009548	9.3996575	7.3697090	6.8502981	4.3038903

## 45	3.0566876	8.5120688	5.6239927	5.0746296	4.1764425	2.4309275
## 46	1.2980131	6.2225650	2.7730891	5.8735032	9.9673577	5.0326122
## 47	2.9914629	6.5422689	0.0000000	4.2583531	7.1515027	0.6822137
## 48	2.7607319	9.2882910	3.8656120	5.3113832	8.0964221	9.0807592
## 49	0.3614315	10.8712527	6.0426509	8.8859882	9.5597625	2.8031237
## 50	3.0717627	8.1205852	0.0000000	8.9182926	10.0939132	3.0717627
## 51	8.9549149	5.3436601	2.9362139	0.0000000	0.3971458	0.9639180
## 52	7.2745012	8.8197008	12.0218632	5.6172720	9.1597079	8.4733413
## 53	5.6502102	8.4354661	4.7330669	4.2009516	3.8857501	7.4639632
## 54	0.0000000	8.9915972	3.4030904	8.9497719	4.7494270	2.4885150
## 55	5.6408754	10.0083175	3.5525615	3.3138988	10.7056772	9.4570699
## 56	0.0000000	1.1508846	1.1508846	0.4924172	0.8589358	0.0000000
## 57	5.3092453	4.6554263	3.9493949	2.2054238	9.2093205	8.7266266
## 58	4.1936141	6.7760105	1.8329710	7.4078252	8.4663286	7.0585070
## 59	0.3723950	4.8714396	0.3723950	0.0000000	1.6142387	2.2715751
## 60	1.5300208	10.3399893	6.5176064	6.6121195	3.6550426	4.9885211
## 61	3.3833172	8.7019312	1.7802261	4.4189388	6.6643932	2.2178821
## 62	1.1288873	10.4174983	7.4526210	7.3592453	3.1717352	5.8045725
## 63	0.8579014	13.2760698	4.5364073	3.8885777	3.4620000	1.9923334
## 64	1.8000819	7.5953492	4.4387453	4.7361502	7.3020082	3.6535875
## 65	9.6386106	3.1654296	1.2476238	0.0000000	2.1933302	0.6320820
## 66	1.0678452	5.9505337	3.9308792	5.3960910	6.7423256	2.5005726
## 67	5.9858397	6.7602862	8.2848190	3.2738739	8.4726348	6.1439056
## 68	4.3200586	8.8757632	4.4282362	8.0315557	7.5373310	2.9714240
## 69	4.6043264	7.9399623	5.2008103	6.7165342	8.8211789	7.0156570
## 70	1.2498700	6.4622160	9.5790466	8.1699566	6.8632286	2.7776406
## 71	5.8827946	9.9943079	5.0722044	4.9333130	5.5776645	7.2715265
## 72	3.6786353	5.2599918	4.4557809	9.9277227	3.9155113	3.2292495
## 73	3.9707984	6.9761734	0.0000000	0.0000000	2.4270966	0.0000000
## 74	0.6614760	6.6631880	2.0702176	1.9666889	2.2574029	1.4569113
## 75	6.0321978	4.7565803	2.4447731	0.9652487	9.6689132	8.6057440
## 76	0.0000000	6.3196793	0.0000000	9.2412870	7.7250997	4.0420489

## 77	5.4850468	5.5648049	0.0000000	1.0131406	1.6025044	3.1106138
## 78	0.7392433	3.5496076	1.0028825	0.0000000	1.4186757	2.8794705
## 79	5.9135692	5.7710457	0.5997939	0.0000000	2.3571860	0.0000000
## 80	2.3397645	9.2262884	4.3574324	1.7812758	2.0873610	0.4918018
## 81	6.3314078	6.5272737	3.4913272	0.5732776	7.0838505	5.9652117
## 82	4.7085128	5.4181967	0.9245560	0.0000000	5.0193639	9.2136525
## 83	1.7609448	7.8967810	4.0813226	1.3745109	9.6129693	5.2134639
## 84	0.6061579	7.6435359	2.7536259	1.2050797	8.6945874	3.3041167
## 85	1.9131479	3.1285409	0.0000000	1.0748479	1.6839210	1.4113178
## 86	0.0000000	10.9365835	0.9395275	0.9395275	2.2238550	4.4815637
## 87	2.4922634	10.2951406	4.0180644	3.7957981	3.3579883	0.7319652
## 88	0.5818815	4.2765339	4.5456410	1.8007032	2.8987888	4.1610976
## 89	5.1613315	8.7074295	3.4513958	1.8010345	7.5749167	9.0717723
## 90	4.1053261	10.6576197	8.1076884	8.0957151	5.0296119	3.7724558
## 91	0.4421208	8.5043701	4.6859458	6.7432349	6.3002281	5.1465290
## 92	6.4792581	10.4309601	8.5103148	7.2734049	5.5834529	5.2281761
## 93	0.0000000	5.4268048	6.1318220	8.9680568	9.2395343	2.0177794
## 94	5.9813435	9.0782616	8.6350346	7.5399366	6.1938959	9.1197216
## 95	2.4376272	5.9988499	3.0318186	5.9220979	6.5122585	2.1087252
## 96	3.7853413	7.4009469	0.9121900	6.6968980	2.1787784	0.5270703
## 97	1.1350094	4.9773898	2.8639186	2.6741894	1.8841681	0.3774014
## 98	1.2522945	10.1811351	4.3951656	5.3604661	5.8323305	6.1456693
## 99	0.9659874	11.8000699	10.8009885	5.2305719	5.4030120	4.1572701
## 100	0.5765705	8.7561283	4.3335096	6.0303758	4.3335096	3.6206099
## 101	2.7488262	2.2144668	1.4959509	3.2207169	4.8231481	7.4468517
## 102	0.0000000	10.7109786	1.7655347	3.6553518	3.8678965	4.3645724
## 103	0.0000000	8.6390234	3.8325660	1.4947740	9.1211299	0.3330802
## 104	7.8881849	5.5069859	3.6555808	5.6692763	7.5997701	7.2717786
## 105	0.0000000	11.6317631	7.7203469	9.3400285	1.8718042	0.5691022
## 106	0.7004397	13.1168729	7.4646576	4.8170911	5.7831082	5.2901295
## 107	2.8381047	11.0358439	9.4195981	7.1618151	1.6648924	3.6937546
## 108	0.9034240	10.7518139	6.6006028	7.4967779	5.0280652	2.9935113

## 109	2.5607883	6.4790656	0.0000000	0.0000000	4.5948590	3.9727845
## 110	6.2576820	8.9734485	3.8046835	8.2716993	5.3070459	5.4996801
## 111	6.0452267	6.0382781	3.7750927	2.3573831	2.7464633	6.2455166
## 112	0.0000000	12.1286176	10.3886431	10.0319398	7.2849545	3.5643660
## 113	2.5422828	6.3401367	7.8135542	4.2243490	5.4336105	4.0945401
## 114	1.7353055	5.5316279	3.1677914	3.5827607	6.4126630	5.4239176
## 115	0.0000000	5.2568106	3.8290681	2.3795932	1.7664680	0.0000000
## 116	0.4075159	7.4236782	0.0000000	7.7962304	8.4222187	2.7111204
## 117	1.6795139	8.7337766	1.4402081	0.9849174	2.9278017	5.6141327
## 118	10.6404736	3.1890180	3.8818016	2.0436945	0.0000000	5.9591140
## 119	2.9086592	9.6724690	4.2598223	6.6038963	9.6036210	6.7303071
## 120	0.0000000	4.4436862	1.3768460	0.0000000	7.4207914	5.4010945
## 121	3.5697949	8.9416680	6.8191138	7.0087121	4.3241193	5.0319818
## 122	0.7626465	9.5584781	1.6275135	7.2593497	9.0357531	0.0000000
## 123	1.6514536	10.6544382	4.2632523	2.3004459	6.4608801	5.0183181
## 124	10.6129094	5.7371892	5.8176872	0.0000000	5.4745983	4.0272071
## 125	0.0000000	2.8494789	6.6684723	2.4868431	4.2188664	6.1144066
## 126	0.0000000	11.0516789	5.0651931	0.0000000	5.2363855	0.5077185
## 127	1.4742024	11.5116651	5.6461569	6.8341145	9.2131373	2.0706984
## 128	2.4869717	10.6214835	11.5205616	7.5242471	3.5424190	6.3857692
## 129	5.1620690	5.5061798	9.9901599	5.4656839	6.7706626	8.3449306
## 130	6.3958169	4.8653547	0.0000000	0.8701871	2.7645372	1.4091465
## 131	0.0000000	0.4403144	0.0000000	1.9467683	2.5840966	0.4403144
## 132	4.6403028	9.4962576	2.0167459	2.8264773	8.4406836	4.6403028
## 133	3.0806236	7.0671418	3.6756579	0.0000000	3.2686739	3.4864698
## 134	2.1072861	8.2431754	3.1892711	5.1288749	8.5210935	8.4396959
## 135	0.0000000	8.6893016	4.6349359	4.8792990	9.4653629	4.8336238
## 136	1.9973647	10.0786528	4.8687460	5.4228452	7.9548605	2.9709457
## 137	1.6326405	11.5971162	7.7406928	7.4657321	6.6651966	3.7660651
## 138	0.0000000	7.5558016	3.1332840	0.0000000	1.5923972	11.4833517
## 139	1.1350751	5.1575127	4.8635470	5.4517518	6.2205254	3.7613597
## 140	0.0000000	10.9393121	8.0178462	4.5128842	0.0000000	1.6318493

## 141	8.9962243	3.7527379	1.3842156	1.7720968	1.9328171	6.5850842
## 142	4.9697031	10.6829692	5.3487034	2.3740935	7.8911986	5.4784800
## 143	7.6102261	4.9843843	5.3331088	0.7834986	0.7834986	5.8026895
## 144	1.4865599	8.5865385	0.0000000	7.9614734	4.9628729	9.7725129
## 145	5.6769021	3.9990890	0.0000000	0.0000000	2.6296597	4.6228074
## 146	1.2696915	9.2305436	9.5440593	7.4859822	7.1072359	1.2696915
## 147	3.4513166	9.2461209	14.6478938	6.4693113	9.5740326	7.3709907
## 148	9.8844418	2.9264929	2.3789832	0.0000000	1.1378314	1.4857875
## 149	0.0000000	6.1030737	4.5210256	8.1395959	8.6518704	10.8381954
## 150	0.9420077	2.3633393	0.5465611	0.5465611	1.7238206	5.0944219
## 151	4.4771527	6.7497032	1.4712915	4.9127552	6.7732737	4.3030135
## 152	1.4117516	8.1940595	4.6484309	6.1445991	0.5010060	6.6883161
## 153	12.9732867	2.4876664	6.1160923	3.7322692	2.1559435	5.1984038
## 154	1.5429514	8.4576197	1.1864372	0.3994446	4.8455503	5.7450114
## 155	1.0625362	14.8597743	1.0625362	8.4086337	4.6250776	0.6269530
## 156	0.5831339	6.1342271	1.8035164	3.3874315	7.1083812	0.0000000
##	rs_PON3	rs_FAM3B	rs_LPPR3	rs_HS6ST3	rs_SERPINA5	rs_WFDC2
## 1	8.5290955	8.1087079	8.9310179	9.2368164	9.864727	9.3651332
## 2	2.6819664	3.5649390	4.5254613	8.2984824	7.999852	7.0175913
## 3	7.1141588	4.6094654	9.5168736	8.2263693	12.931184	9.2768125
## 4	1.9350825	11.4528687	2.8179097	0.8535167	13.455387	9.1706512
## 5	1.1300083	5.4654978	7.1582401	8.6451760	10.549803	6.5622791
## 6	6.6145877	10.5148490	0.0000000	4.1792085	5.426681	13.2854604
## 7	5.8405992	5.8694372	1.1090262	0.8248086	6.918127	10.6593489
## 8	0.0000000	4.4038608	0.4304994	7.7726926	3.112733	6.6553533
## 9	6.7482908	5.3577350	5.9851771	6.1941107	1.355355	12.4635160
## 10	1.9455702	6.2316916	6.8413291	10.0290071	10.233247	11.4259807
## 11	4.6099440	10.5678566	5.4863089	8.6212222	10.718969	5.2530892
## 12	4.4421208	8.3423992	0.4548076	7.7497541	6.411704	5.2362553
## 13	0.0000000	3.2881961	0.5474498	1.2537473	2.080862	5.1355554
## 14	5.0807344	4.0369868	5.3414236	8.2697850	8.779187	8.8437484
## 15	1.8078083	1.4784542	3.0260918	1.8078083	11.944075	11.8403540

## 16	11.1693959	4.1002544	7.0896888	8.4042654	10.466521	13.2842574
## 17	1.1726155	10.0967988	5.5282744	10.2343328	12.467617	11.1547208
## 18	8.3030049	10.9598833	10.2397115	9.0114568	10.446094	10.9994369
## 19	4.2077523	4.8760847	6.1125646	3.7042301	8.732497	9.1271055
## 20	4.3196324	9.8447415	8.9404613	6.7803587	11.089384	12.1159236
## 21	2.2117287	4.6791479	3.9569209	6.4556938	7.089618	8.2636274
## 22	3.7832157	0.8668684	0.4976379	1.1606621	8.673596	11.8550474
## 23	1.9355352	10.5942395	0.5566992	8.8279562	3.314174	3.5057639
## 24	5.8559249	4.0138463	1.0764907	1.6860298	10.214576	6.5736835
## 25	0.7179122	0.4031586	6.9372749	6.9181715	10.129043	9.3379318
## 26	6.9166104	10.1012803	8.5914363	8.5973990	12.926481	10.7927408
## 27	3.2642812	5.2861456	5.6885692	8.2836297	6.674514	9.6402216
## 28	1.8019864	5.9718125	1.4103411	9.6381732	6.552280	7.6555078
## 29	8.2699944	6.4805495	9.4608015	4.1354199	12.993117	9.3815412
## 30	6.6191342	7.8859068	8.0282039	5.5679774	11.764163	10.3228706
## 31	7.8471231	9.9225694	6.3862074	9.3297643	9.156776	11.3847038
## 32	8.3983910	3.9102626	4.6955652	5.1307291	10.186375	8.1944112
## 33	3.8540854	6.4265315	5.8140479	7.0451175	9.917891	11.1920750
## 34	1.4601135	8.9812199	6.7170348	7.2019739	10.010735	8.1622105
## 35	1.6759965	10.9006561	5.1895123	11.4631020	9.055061	9.9200565
## 36	8.0517897	6.8481522	3.1209657	2.3998820	7.235695	8.6702087
## 37	2.4072984	3.7063537	5.4325185	7.9942510	9.276187	10.4481572
## 38	7.2905295	8.6953125	8.1440035	2.1295138	4.331204	11.2526352
## 39	9.3508148	6.0901167	0.0000000	1.6751836	7.055898	7.4271326
## 40	6.2985410	5.3167540	0.0000000	5.4916896	3.757461	9.5249524
## 41	5.3672907	3.7843260	7.2421280	5.6291176	4.006460	5.4992846
## 42	7.1053292	5.7894111	0.4589069	6.6528708	3.373425	0.8066128
## 43	4.1981955	5.1427810	3.7045843	6.5297507	6.724792	9.6644857
## 44	2.5078961	4.2574934	6.9301093	5.4116195	6.589762	8.2003979
## 45	8.3138943	8.0579668	8.6879712	6.3917557	12.878722	9.3049846
## 46	1.9700438	3.8933428	6.4502396	6.3887716	9.722162	10.1465539
## 47	3.0452857	2.5451776	3.8072313	8.1137297	6.450504	5.3753140

## 48	3.7771882	5.8339274	6.2662824	9.8793590	9.518237	7.9724773
## 49	1.9438838	3.5631581	8.2638706	4.5366498	10.568577	7.3234475
## 50	1.5521311	1.7024802	6.6421340	3.8607344	9.253585	10.3844549
## 51	6.8718646	7.6843243	1.5366000	6.4512424	3.050972	11.2783854
## 52	9.9775278	2.2386035	4.3500941	10.4834721	12.136966	11.6339965
## 53	7.2062115	3.9484233	5.6216504	9.3045503	10.955820	4.6412050
## 54	7.6717569	6.5754349	6.5538059	7.7666130	12.555033	10.6872826
## 55	9.8102803	4.9732163	8.2962610	1.3166092	8.251796	11.0627505
## 56	1.1508846	1.1508846	9.6851223	6.2139363	5.973586	7.9703740
## 57	7.5018022	10.0420682	2.2054238	9.0374981	8.516437	9.3533105
## 58	4.0335111	4.4687136	7.8950996	5.9805875	10.708894	9.5382514
## 59	4.9673162	3.8915553	8.3029510	3.9199026	5.022869	9.1023684
## 60	1.2317396	5.3735021	7.3964935	9.6416696	10.737607	6.9477386
## 61	8.7225750	4.7314494	6.8084584	7.2005102	8.986197	10.7373787
## 62	1.9880848	4.8963300	0.3748447	13.5669707	8.740370	6.4387968
## 63	0.8579014	11.1034020	2.3397075	9.7612748	13.546106	7.1615904
## 64	8.7947775	3.8318367	10.2188445	4.3537185	8.577621	11.4962933
## 65	5.1100792	2.5041627	6.0655465	3.2089698	3.292281	7.5263435
## 66	0.8656813	2.8134221	9.3215874	8.9918597	12.234380	4.8693187
## 67	7.6942353	7.8795201	6.6303094	3.5033742	11.806034	11.1536691
## 68	3.9638348	8.3653662	6.3220561	8.5406914	12.102639	9.7463124
## 69	6.0633260	10.2971988	5.0112273	8.3555269	9.824636	9.7770230
## 70	2.2600257	3.0418562	4.2931865	6.9258914	7.770883	8.1010255
## 71	9.2064435	4.3666369	3.9998016	10.8969550	12.894550	9.8323756
## 72	2.0166746	4.2401540	3.0418212	7.7276979	9.178531	11.4338059
## 73	5.2314977	3.2477149	1.6136731	2.7367564	4.249999	3.6242647
## 74	0.3683772	1.8551127	7.7719410	0.9050428	4.336083	8.4537723
## 75	7.6437646	9.0198553	6.9818161	5.3463364	11.153039	11.4553191
## 76	1.0923428	2.8905829	6.6637260	5.1738350	12.863245	12.0594104
## 77	5.0253921	5.5802420	0.5937840	1.6025044	9.645475	5.1954067
## 78	4.4640801	4.0054180	6.1622060	4.8468844	3.420280	6.1622060
## 79	4.8497541	4.9493902	0.0000000	1.0221192	8.231147	3.8989339

## 80	8.1483530	4.8390828	2.6509483	5.7605989	8.234544	9.3418815
## 81	6.3909135	4.9430680	5.2509729	5.4572988	9.464548	8.6104000
## 82	5.7303139	8.5799924	5.0193639	2.6754546	9.507769	10.1539353
## 83	5.4243578	2.3166961	8.0140166	5.9920727	9.101139	5.2641723
## 84	1.7441180	4.3633253	8.3151201	3.0549700	9.285951	7.5420924
## 85	5.8553992	4.0192037	0.0000000	3.7193477	5.207944	6.2525141
## 86	0.7556567	12.8384778	6.3207608	9.3678653	13.123867	7.1556147
## 87	7.8053570	8.1082652	6.4251001	8.8034951	10.801606	6.2853893
## 88	6.4745739	9.7262199	9.5471714	9.2409666	5.200359	8.9404986
## 89	6.5762152	3.6548250	8.8935542	8.5068847	5.603597	13.2857942
## 90	9.3649000	5.3038867	7.7586616	0.0000000	12.688405	13.3162779
## 91	0.4421208	10.7293365	4.7641710	9.0258544	8.811180	8.1528638
## 92	8.6248393	10.9447821	5.4614696	8.4948508	8.748618	7.0343445
## 93	1.7535618	8.8169158	7.4385366	8.6160327	7.737771	8.3634142
## 94	5.9415407	9.2250175	4.5275083	9.4818803	9.165073	6.8567330
## 95	1.4095810	6.1964516	5.5236560	8.8276377	5.841035	6.5467525
## 96	5.4949468	4.4703026	2.3128684	10.3011772	3.738444	2.4355486
## 97	5.1931054	0.9237957	10.7771629	0.0000000	6.977280	8.2361974
## 98	1.2522945	3.5498909	8.3736665	8.5315351	12.536292	9.4448546
## 99	0.3981314	8.7892330	7.2624548	8.4324684	11.083838	1.1834548
## 100	0.9873936	2.8850081	9.9852635	1.3067872	11.796292	14.4621122
## 101	3.7807090	8.4470187	8.1402894	9.4248925	11.956453	10.4871671
## 102	0.0000000	2.0703893	9.3623822	8.5243458	10.620770	10.2395985
## 103	10.3805061	2.8019864	6.1204224	3.2973675	13.206469	11.5256543
## 104	2.1636919	5.0820426	5.3101038	8.5052983	9.217744	11.5399823
## 105	6.2003670	2.3535209	11.2034407	0.3124328	8.314031	9.8637554
## 106	1.3576083	9.3151206	8.2648484	6.2361252	12.601303	7.8182952
## 107	10.6628483	3.6107237	8.9221589	7.5825251	10.783548	11.7896407
## 108	9.3268818	7.8505932	8.9449726	9.0902966	10.463626	9.4271324
## 109	5.8584162	2.6658021	1.8769196	4.1278726	6.374500	7.4004303
## 110	0.7357821	9.1392298	6.1332943	10.5045837	7.157009	9.5349868
## 111	4.0204489	7.1802623	6.1712469	11.4031026	4.631942	10.8901813

## 112	5.1860885	7.3997197	7.9469443	9.6301202	10.225560	9.3274767
## 113	1.3831651	6.6484137	7.4750849	7.3807762	10.290835	10.1344774
## 114	0.4144603	2.6609514	5.3195854	9.5831892	8.665306	8.1008941
## 115	3.4072168	3.0368022	1.1382247	6.6365057	2.001010	7.7983526
## 116	4.3165947	4.4303790	6.1858983	8.5794193	4.268794	6.7728767
## 117	0.9849174	5.8770645	7.6190725	4.2380455	11.287512	7.9398918
## 118	0.0000000	11.2681526	0.0000000	9.6704196	9.639119	12.7747604
## 119	4.9281666	3.9755752	5.5932821	9.5792756	9.976612	10.6194418
## 120	1.2208252	3.1675346	5.7822120	0.3405053	3.838801	12.0339188
## 121	7.3016736	7.2766390	5.7672893	11.5334751	9.609631	6.3025713
## 122	1.6275135	1.0320303	9.9150571	7.4524579	10.382246	5.8523310
## 123	3.4109923	4.2632523	7.5187397	7.7153100	11.719282	8.5727480
## 124	5.1656869	2.8322419	0.0000000	8.2881781	5.382325	9.6281311
## 125	3.7457644	3.9650916	6.9744111	6.3697805	11.390718	9.1159920
## 126	0.0000000	3.8151655	7.3183132	8.9718516	3.726003	11.7309289
## 127	3.8236577	6.3017230	8.4595419	6.5018197	12.300388	11.9466493
## 128	0.6559929	8.5123841	6.1251903	9.3005333	9.800382	9.4740780
## 129	2.4886692	3.5214654	0.0000000	9.4828892	2.255199	2.2551986
## 130	2.7645372	4.6203049	0.8701871	8.5877093	4.134057	6.4308489
## 131	0.4403144	1.8066128	8.6231151	0.0000000	1.946768	11.6047804
## 132	8.8512831	3.7210335	3.1431322	5.4623567	9.791633	9.0097164
## 133	0.8360857	4.9829616	4.4206306	9.0451781	5.244362	5.9870116
## 134	2.6120222	6.2743083	7.1626632	6.7194107	9.259323	9.6496620
## 135	1.3383388	1.7847971	7.8943970	3.1616620	11.318394	8.2419479
## 136	1.8339830	4.1082150	7.1933903	6.0252503	11.527605	11.2847089
## 137	4.1824460	3.6093413	5.4501258	9.5027121	11.163472	9.4313426
## 138	7.7913570	6.4058086	5.5829624	6.8421555	3.179861	4.6545845
## 139	3.0794122	7.3065940	7.5284635	5.0574113	8.304762	7.1902859
## 140	0.5056877	7.0759722	8.4627280	9.4971782	6.755594	0.8793921
## 141	3.5194161	10.6413435	0.4881036	2.3293533	11.082195	13.1441695
## 142	1.0328061	4.4769908	8.5765089	7.0493215	10.076562	8.9606244
## 143	6.2482274	7.2073629	2.2036710	2.6802793	2.203671	6.3151006

## 144	4.3486361	2.7776196	7.8104033	2.5743680	6.443862	9.9479418
## 145	5.4765599	6.6992115	3.2264777	3.9188728	10.368963	8.8783201
## 146	1.7449361	7.2478117	8.0820990	9.0413038	3.917527	13.1284623
## 147	1.0733404	4.7620405	8.3058356	7.5544975	11.501497	12.1543914
## 148	7.4418577	2.2020729	0.6782522	9.2100296	6.368641	4.3790595
## 149	1.0817487	2.8732817	6.8764875	6.1865402	6.796628	8.9225196
## 150	9.6745371	9.2071381	0.0000000	6.0927593	11.802211	10.1757848
## 151	7.9986237	5.7255639	7.5302089	5.0732847	9.806847	11.9976207
## 152	10.3681004	10.2773882	6.5797956	9.4786012	11.699944	12.1862241
## 153	8.0983885	4.1924151	1.1058122	7.9672603	7.763057	6.9796138
## 154	5.4178930	5.4614696	3.7138278	5.1346645	6.902801	8.0046216
## 155	1.3966527	9.1869756	8.1581785	8.5968420	5.238011	12.4767479
## 156	0.9973285	2.8027309	7.9776148	5.8773344	1.803516	6.7088976
##	rs_ZIC1	rs_CST4	rs_NCRNA00052	rs_ERBB4	rs_C16orf89	rs_ACTL8
## 1	7.1360642	10.6187382	6.3942106	11.0298067	4.9734597	1.6516832
## 2	3.7310963	6.3747196	3.6504084	9.8996065	1.4884122	0.0000000
## 3	0.0000000	3.0558898	5.3912659	8.8132489	5.8686448	0.0000000
## 4	0.0000000	12.9846833	0.0000000	10.8604621	6.5199759	0.4889263
## 5	1.1300083	3.3935123	0.0000000	10.6725500	11.4741615	1.9158650
## 6	2.9528367	3.9563169	0.0000000	5.6367754	5.9945639	8.6264059
## 7	0.0000000	3.3583541	1.1090262	5.5393791	6.5237862	0.0000000
## 8	8.1196939	2.5529426	1.9191112	6.9873231	2.3709454	5.2557915
## 9	5.2826993	1.6220870	1.0279325	1.3553546	4.0519289	0.0000000
## 10	0.8598106	5.7539227	3.1935037	10.0906783	10.5793426	0.0000000
## 11	1.4183519	5.1616539	0.4164074	10.1852041	4.6680567	3.1201694
## 12	1.6888070	3.8045286	7.0180755	4.7117096	5.1180565	1.0785415
## 13	8.0918886	0.9433588	1.2537473	1.2537473	1.2537473	11.8992143
## 14	1.8800977	0.7400209	8.4928518	9.5578102	8.1625061	3.0656929
## 15	2.5854914	3.3631571	0.7778720	10.4092009	6.3277071	0.4407396
## 16	6.5858984	10.8158388	0.9432837	9.2789426	1.2536263	0.0000000
## 17	0.5039593	3.2897312	9.8622745	12.1453795	2.7766936	0.5039593
## 18	1.7185260	3.1104468	3.0452158	12.0745874	5.1127252	1.1013139

## 19	7.5943985	3.5362394	0.0000000	9.4673266	5.5932641	0.0000000
## 20	0.3644604	2.2437300	10.7784259	6.3069220	3.2225727	6.5825741
## 21	0.4891319	5.9528554	0.0000000	9.9858644	5.0034493	6.8123878
## 22	8.2602200	0.0000000	0.0000000	1.4045762	1.4045762	3.1416617
## 23	0.0000000	0.0000000	1.2705887	11.9905562	6.3153217	0.0000000
## 24	1.0764907	0.0000000	0.0000000	3.7221818	3.8385686	3.6390122
## 25	0.0000000	2.4630731	2.0786781	11.6903844	8.3756047	3.4588019
## 26	1.8728288	1.9740520	0.3405053	9.5248171	5.0653181	2.8855548
## 27	2.3061164	2.8984406	0.7802261	11.1294373	5.6985686	0.0000000
## 28	0.0000000	12.0501888	0.0000000	9.3325526	6.0993962	2.4749811
## 29	0.0000000	2.3837734	5.6122286	10.1229795	10.3167783	0.3800645
## 30	1.0803166	4.6523660	0.4557546	10.3485842	9.6901967	0.0000000
## 31	2.4251101	1.1322478	3.2841143	11.0446822	11.8897797	0.0000000
## 32	2.9386057	4.7716638	7.1854840	8.9400945	4.2664567	0.0000000
## 33	2.3925372	7.1094462	0.4374408	10.4241741	9.1847323	0.4374408
## 34	7.3014285	4.9840424	5.0234151	10.4919953	8.4437637	2.1707583
## 35	0.0000000	3.3430524	0.7922723	9.9974930	7.9391096	1.3007680
## 36	7.5375531	2.7138937	2.1447317	7.5736351	7.4449610	4.6162930
## 37	0.5165195	3.7063537	0.0000000	11.4666375	11.7565102	4.3786503
## 38	0.8827604	3.4390646	6.8304189	8.1003065	4.3108999	5.5061068
## 39	1.2117598	5.0262822	0.0000000	9.6618000	3.2890229	0.9088129
## 40	8.6696997	2.3714752	0.0000000	3.2735905	4.9628405	0.0000000
## 41	10.7742049	0.9876119	0.0000000	4.7130854	3.2996110	7.0051181
## 42	6.6582301	4.5060878	0.0000000	6.0562345	3.2651818	0.0000000
## 43	8.8078991	1.6911768	0.0000000	2.3255303	3.2434863	11.5160818
## 44	0.9542708	0.0000000	3.5775376	7.6444195	5.2192770	2.1498447
## 45	2.8766839	6.8357473	8.7741229	10.3697154	7.6412100	1.7824924
## 46	7.1251303	4.7296126	7.4748765	11.1316822	9.3325947	2.6102748
## 47	3.0452857	4.8785292	0.0000000	10.9641060	5.3108527	0.0000000
## 48	1.9592879	3.7464740	2.1591448	8.8936516	5.6879705	4.8874424
## 49	1.5816887	5.3923964	0.6503050	9.6873099	6.3144736	0.0000000
## 50	6.8497604	7.0523898	1.7024802	8.7824308	4.4122057	1.5521311

## 51	8.9391696	0.0000000	0.0000000	5.2386111	4.9441322	0.9639180
## 52	0.0000000	3.9645927	0.0000000	9.7516313	4.2529227	0.8455904
## 53	7.7144090	3.2021669	5.0512633	7.9022430	2.8549133	4.9009199
## 54	0.0000000	3.1952846	7.0040676	9.1404983	6.6537709	5.6528478
## 55	2.2856981	9.3164024	0.0000000	7.4837868	4.7832209	1.8810381
## 56	4.7568845	0.0000000	0.0000000	0.0000000	3.4281424	5.1530352
## 57	4.2796124	10.6370841	0.0000000	10.0415739	7.2749791	0.0000000
## 58	0.4008658	5.3132567	6.9203517	10.5855983	7.5600668	0.4008658
## 59	8.9517728	0.0000000	0.0000000	1.1230040	1.6142387	10.8811759
## 60	0.0000000	1.7770725	2.7935838	10.5163805	2.0828729	7.1198656
## 61	0.6858953	3.4247878	4.4393173	11.8686559	9.4305278	0.0000000
## 62	6.8742043	0.0000000	0.3748447	13.1552729	4.1143087	1.7543317
## 63	1.2351143	4.7691211	4.6804875	10.6439277	7.9898134	6.5148718
## 64	0.8698714	5.1090513	2.1076544	11.7875489	6.4777712	0.0000000
## 65	2.7597524	3.9858920	2.1039004	5.6732992	1.7966393	8.4448803
## 66	0.0000000	1.0678452	1.0678452	12.0047578	5.3189458	0.3494785
## 67	3.3227935	0.0000000	0.0000000	10.5600198	7.7735474	0.0000000
## 68	0.0000000	0.6978628	0.0000000	10.7595191	11.6523193	2.0393139
## 69	1.9795864	4.3234926	1.4913914	10.5748112	6.7862696	0.0000000
## 70	2.1523457	1.2498700	2.4539389	9.9211227	5.2296571	2.1523457
## 71	0.9124199	1.2161755	6.6757468	9.5999744	3.2632899	3.8752394
## 72	1.0992279	9.9066994	2.1464271	9.3219161	8.7778418	1.0992279
## 73	5.2801138	1.4868173	0.3305584	3.1672776	5.6117950	9.2781741
## 74	1.1133671	6.0603912	0.0000000	11.0027459	2.4992464	0.3683772
## 75	4.8389014	0.0000000	0.0000000	9.9357731	11.0412137	0.0000000
## 76	1.0923428	3.5319428	0.0000000	10.8989655	3.2750220	2.1363555
## 77	0.0000000	0.0000000	0.0000000	8.0033819	7.4183679	0.0000000
## 78	7.9066249	4.4429236	1.0028825	1.8786861	2.6678467	5.1888440
## 79	0.0000000	0.0000000	0.0000000	5.6429643	7.4866380	0.0000000
## 80	7.9374344	2.3397645	0.0000000	0.8579014	0.8579014	6.9120175
## 81	3.8251038	0.0000000	0.0000000	9.1004253	9.3222590	0.0000000
## 82	2.5703172	0.0000000	0.0000000	8.3960820	8.1469133	0.0000000

## 83	7.8427514	3.4708752	0.8451086	10.3353320	6.8068860	0.3397075
## 84	1.6270465	3.2654669	0.6061579	11.2581555	8.8642267	1.0316775
## 85	7.1838666	1.2528395	2.6452175	1.0748479	3.1734633	5.0957135
## 86	0.0000000	0.7556567	1.2490205	12.8831139	1.9082749	0.2980717
## 87	4.0180644	3.4037585	1.5766672	9.5254329	7.5189993	3.3107327
## 88	0.0000000	3.6918133	0.9953036	9.7006095	8.6648682	9.2714387
## 89	0.0000000	3.8330824	0.4998841	10.8931634	11.0669781	5.1103549
## 90	0.0000000	3.1042192	0.0000000	10.8656248	4.1264030	1.8209346
## 91	0.4421208	3.4645899	4.5817911	8.6350212	5.1318528	3.5553867
## 92	0.9237957	6.4200309	4.5316435	8.7596096	1.9965334	1.6291468
## 93	0.7464848	2.5220055	0.0000000	10.6812381	3.1909467	0.0000000
## 94	1.8394759	4.8039554	0.0000000	10.1888226	5.5498324	2.0537717
## 95	6.1690351	6.9035143	0.3517414	9.9806994	2.2825288	0.8705028
## 96	1.2159270	5.1454859	0.0000000	7.9868284	1.8662354	0.0000000
## 97	7.1018559	0.6763577	0.3774014	5.2049702	2.5322421	11.8889590
## 98	0.4281424	6.4775689	5.9738890	9.9865193	5.6655662	0.7579620
## 99	6.3967846	5.1029856	3.5613017	10.0331398	6.5947605	1.1834548
## 100	0.0000000	5.1047224	8.8076566	3.8344483	4.5607333	1.3067872
## 101	1.0287813	9.9954363	6.5034585	10.3090446	11.6043743	0.0000000
## 102	0.4854268	1.5849625	7.8467440	1.1375035	5.0089888	0.4854268
## 103	0.6035967	0.0000000	0.0000000	11.8375102	4.1394204	0.6035967
## 104	8.0900489	7.0026553	1.7313570	8.4215334	6.2989094	0.0000000
## 105	1.4290535	5.1331936	1.1433934	11.7365869	1.8718042	0.7869309
## 106	1.1699891	5.8858062	5.7499793	10.0568349	5.1700332	0.0000000
## 107	0.0000000	6.8942272	0.0000000	10.0743016	4.4820093	4.3084701
## 108	1.4547023	1.1114988	2.2546545	10.0874345	1.8525982	0.6601985
## 109	0.5315686	0.5315686	0.0000000	7.8839598	7.9135824	2.4475263
## 110	6.4943356	5.5720863	4.9200455	10.0999707	3.1129336	1.7349589
## 111	8.5225866	3.2579158	3.6347443	10.7100962	11.0864949	1.1820566
## 112	6.2154922	3.4590250	8.0615969	9.8215894	4.3629748	1.9693071
## 113	4.5800972	3.5178300	5.4469708	7.7231046	3.2393828	1.5900031
## 114	3.3670635	6.2070827	2.9365155	10.8784578	7.0456483	0.4144603

## 115	1.7664680	1.1382247	3.8290681	1.7664680	2.2026998	4.7454579
## 116	3.1952373	4.8450635	6.9584727	10.6731799	3.3417581	0.0000000
## 117	0.3159140	3.3648946	3.9715803	11.8772198	9.2763436	0.0000000
## 118	2.7271581	11.1620410	0.0000000	8.4180082	4.6284937	1.1694120
## 119	2.8412888	6.5148182	3.4954010	11.2348785	5.3115322	2.2535355
## 120	0.6156988	8.6225380	0.0000000	9.7100689	0.6156988	0.0000000
## 121	2.7845668	0.9306995	4.3241193	11.4012369	3.6238201	0.0000000
## 122	1.0320303	4.1752691	7.9639827	9.1418563	5.1631082	4.8512093
## 123	0.7771988	7.3009272	4.8677334	11.5458556	6.8211081	7.9247626
## 124	7.9273288	3.0072134	0.0000000	10.1182908	6.1701895	3.0611195
## 125	0.4859420	2.2029818	4.5252170	5.6164077	1.4865599	2.6795364
## 126	0.0000000	0.0000000	4.8287077	11.9241698	10.1391007	0.0000000
## 127	1.2765562	7.2925508	1.2765562	11.2510120	11.2497483	0.0000000
## 128	2.3306158	3.4313154	1.1053428	8.5270942	1.4474205	1.1053428
## 129	0.0000000	0.5051796	0.0000000	9.0145693	0.8786861	5.1104676
## 130	0.0000000	3.6060513	0.0000000	5.2884841	1.8006204	8.4373289
## 131	0.7771988	4.9860650	3.8283168	11.3558545	0.4403144	0.0000000
## 132	2.1641426	4.3937800	0.0000000	9.8695500	6.4020246	0.5212518
## 133	2.7843574	4.2819282	3.2086733	7.1452444	6.1313611	6.9979235
## 134	3.3253720	5.8162592	3.8313807	12.8579364	10.1991971	0.9278206
## 135	2.2229900	5.2933190	9.0619814	7.3570866	5.1516153	1.3383388
## 136	0.8914970	4.1780214	1.8339830	7.7806841	4.3692222	7.9398671
## 137	1.2633950	4.7311941	9.0259925	10.2303569	7.1649773	1.7870145
## 138	10.6236390	1.1054769	0.0000000	6.0709302	1.2867038	0.0000000
## 139	1.1350751	4.6737486	0.0000000	7.8830428	3.4421739	5.9404299
## 140	7.0759722	3.8514092	3.0970545	9.2599567	0.5056877	4.8643149
## 141	7.0069342	0.0000000	0.0000000	3.1125333	3.9535260	1.7720968
## 142	4.2042894	0.7633266	1.4559650	8.4208213	7.4482543	10.5012487
## 143	7.4557867	1.9579889	0.7834986	5.0797792	8.5451742	7.2003042
## 144	3.4478569	4.6368740	0.5366498	8.6199657	7.6738313	2.0544665
## 145	6.5340165	0.0000000	2.9317209	5.7248740	3.7743970	5.8455001
## 146	7.4280544	6.4127087	0.0000000	9.2574034	4.0046542	4.4077470

## 147	0.0000000	3.3508084	2.9988634	9.4033862	3.6335126	2.9988634	
## 148	6.3152673	3.3224474	0.0000000	6.5643401	8.0240520	2.3789832	
## 149	0.4564908	2.6347791	0.0000000	7.6870642	2.5456225	5.4772564	
## 150	6.6575528	1.5071603	0.5465611	8.4499212	10.1414841	0.0000000	
## 151	3.1457264	5.8384098	0.3256167	10.1947146	8.6304572	0.5912007	
## 152	3.2177270	8.8250408	5.0964685	7.2131752	7.0097693	3.6581543	
## 153	6.8122133	5.2282723	0.0000000	1.3426685	2.9124583	3.6463701	
## 154	7.7843581	1.5429514	0.0000000	5.7364046	6.1852779	11.0028408	
## 155	0.8610819	4.4564908	6.3303182	9.6811954	8.6149807	2.3454532	
## 156	7.0444892	6.6881398	0.5831339	11.1357516	2.4550181	4.6095304	
##	rs_TMC5	rs_SLC9A2	rs_FOXP1	rs_THRSP	rs_ABCC13	rs_PPP1R1A	rs_PI15
## 1	10.7505010	6.9734437	8.8381898	6.661727	3.8786175	8.2554767	6.263549
## 2	10.2327532	1.4884122	5.6156900	6.546201	0.0000000	6.9262960	6.052429
## 3	8.2850702	4.6520677	1.8321204	7.015639	1.5002922	7.9494299	5.956247
## 4	3.9183862	0.8535167	1.1442422	8.351237	0.0000000	3.1152330	5.706959
## 5	11.3330676	7.8455001	8.4283702	8.972085	6.0438738	6.3474513	7.599524
## 6	9.2352000	4.5741984	0.6028369	7.872844	0.6028369	10.9865591	6.766646
## 7	6.7525626	5.1737071	1.5500634	4.003647	0.4706150	4.5224513	9.982156
## 8	1.4534912	4.1449682	1.6259250	2.927328	0.0000000	9.6383749	7.034007
## 9	1.0279325	2.0416986	0.6035967	2.213130	0.0000000	6.7759131	9.750492
## 10	10.4168633	0.4930324	3.4300176	5.171435	1.1519887	6.0573160	5.879042
## 11	7.0202088	9.2428992	5.7421652	9.016517	0.0000000	7.3090470	7.639479
## 12	9.0003361	0.8001648	3.0076082	7.544525	0.0000000	6.8705114	8.018698
## 13	0.5474498	5.8521737	2.4893374	1.253747	0.0000000	6.6928958	5.394902
## 14	9.0728923	4.2552363	6.6658504	8.688349	7.8718683	7.8801008	8.205724
## 15	10.5516653	1.0509544	9.3013226	2.893634	1.8078083	3.0260918	6.365708
## 16	11.5717131	3.1448458	9.1905529	4.771019	5.3464676	7.2513527	3.978836
## 17	9.3364729	5.5151447	4.3679860	1.810813	1.1726155	1.6277469	5.501898
## 18	9.5295633	5.7770856	5.3741179	8.135759	1.1013139	7.8146228	6.917588
## 19	13.7595685	4.3764571	8.5734022	6.243816	1.5877010	8.4225429	8.773692
## 20	8.4050546	10.5757464	4.9490399	6.864605	4.8081482	5.5363265	4.584469
## 21	11.2592765	6.9268771	4.9666796	7.877028	0.0000000	9.2383245	7.243553

## 22	4.8376759	4.5127768	2.3557493	1.795434	0.0000000	6.3233232	10.112779
## 23	3.7271036	0.5566992	0.0000000	2.627490	0.0000000	7.9109149	4.893498
## 24	4.2839884	1.0764907	0.0000000	2.626346	0.0000000	3.9112601	7.621299
## 25	12.7481781	7.7956066	6.7073357	5.644101	4.4353086	8.0200610	5.734244
## 26	5.9221812	9.2160932	2.8326268	7.510283	3.8120977	6.2893107	3.668448
## 27	11.7405109	4.3226493	4.8022449	5.495618	5.6270757	6.3267584	8.187505
## 28	4.8044150	6.7869897	3.3969404	9.055240	0.0000000	10.1824394	6.703383
## 29	8.8109507	3.1432791	2.6835617	6.726181	0.0000000	3.6029082	6.123281
## 30	10.1482667	7.9544941	1.8481973	6.337599	3.7688407	8.0363929	12.831176
## 31	10.2479762	6.8359190	6.1644062	7.832108	0.0000000	4.2982624	13.641420
## 32	7.6409426	1.6347327	3.4362418	5.735541	7.0507074	6.3646337	6.832669
## 33	10.4945843	7.9474195	4.4054002	8.952769	0.4374408	9.3829843	11.085106
## 34	9.5752015	6.1945934	1.4601135	9.581811	4.2771516	4.3717192	5.682301
## 35	10.2476692	9.4991465	8.3106219	8.852990	0.7922723	8.0267326	3.582183
## 36	6.7426113	5.1207335	1.1911204	4.277524	0.0000000	5.9778638	10.649990
## 37	10.7742294	4.1528811	7.8044989	3.842456	0.0000000	5.1472334	8.465817
## 38	10.1732376	6.6959632	11.0408918	7.716263	1.2669364	4.3108999	3.939866
## 39	9.9142101	0.5247658	1.4620000	6.188860	4.3745318	5.5157030	3.222774
## 40	2.7613491	3.6872623	2.8281238	6.149877	0.0000000	8.2255936	8.654834
## 41	5.8085086	6.4726421	0.0000000	2.917050	0.0000000	8.3603976	9.002212
## 42	10.1787490	9.3781392	7.4525263	7.570927	0.0000000	10.9237720	5.989766
## 43	7.6002474	7.0156882	0.5318680	6.818949	0.9196833	6.2289726	7.801056
## 44	8.0705686	4.6831013	2.9773715	4.515807	10.7881682	4.8796911	7.788015
## 45	10.3515079	6.8601943	7.7433184	10.583488	1.9739051	9.1963599	8.625163
## 46	11.9270868	2.6939887	8.2291990	7.147571	2.9873027	6.8746617	6.672855
## 47	10.4802334	4.0893117	7.8614585	7.508399	0.6822137	8.0493351	5.343443
## 48	9.4691015	9.4790634	9.5379931	3.746474	5.3929940	6.6027968	9.072268
## 49	7.6522771	1.4374408	4.9089714	7.656355	4.7952163	6.2672567	7.646138
## 50	10.1567284	0.7173858	3.4991188	7.762352	11.0635991	7.4611962	7.107343
## 51	3.4359752	5.5625813	0.7081431	2.875210	0.0000000	3.5957423	8.221725
## 52	11.5821845	10.3242751	7.9837085	4.967487	6.9878881	5.7442580	5.495120
## 53	9.6967521	7.0291701	4.3242346	4.415792	1.2095158	4.9166820	5.640751

## 54	8.9845415	6.1329798	5.9380599	6.183149	3.2501127	3.3538737	5.878409
## 55	10.8335167	8.4269872	1.3166092	5.772606	7.1799807	5.3767280	7.454658
## 56	6.4061285	1.7828279	0.0000000	2.652808	0.0000000	2.4529117	10.404020
## 57	10.3984996	6.0682860	0.7844202	7.887967	0.0000000	8.6495648	9.596184
## 58	10.3814415	2.2761989	3.3631290	6.210155	8.5050048	6.9654253	8.596195
## 59	4.3940957	8.4167304	3.7086728	3.113850	0.3723950	5.4689482	5.953291
## 60	5.9277685	10.2726993	4.4794052	6.879980	5.1285780	2.7935838	5.464436
## 61	9.0953815	3.3406050	5.3093145	7.510877	0.6858953	6.9501278	5.456563
## 62	7.6055106	5.4207754	1.1288873	6.271566	0.0000000	5.6596734	7.090658
## 63	6.0908238	0.0000000	5.7277517	8.472519	3.5646221	2.5544415	10.779461
## 64	8.8081556	7.9493768	2.4727737	7.286798	2.4727737	8.8591757	14.807380
## 65	5.6178480	7.9708519	0.0000000	2.572429	0.0000000	5.6655065	13.267308
## 66	8.8533966	0.0000000	3.2473351	6.631043	4.1246590	5.1058499	14.785508
## 67	9.4202186	7.7691423	1.4156505	7.067044	0.0000000	8.1940733	12.225466
## 68	11.7492296	7.1264866	0.6978628	8.603185	2.7222256	3.9937196	12.392643
## 69	9.1805487	5.0313467	7.4928258	4.222109	6.9511157	4.7810764	8.455700
## 70	9.6450998	6.6911154	4.6703135	2.260026	5.8882123	1.6169693	4.526751
## 71	10.6055943	8.0366088	2.7980505	5.758993	6.5658439	5.1988870	6.582541
## 72	10.4835066	1.3352546	3.2866742	7.216777	1.0992279	6.3119081	4.809276
## 73	3.3238888	4.1278066	1.0215508	7.730874	0.0000000	7.9298709	8.464770
## 74	10.0816248	1.1133671	1.6022193	5.299919	0.9050428	5.0185274	4.397105
## 75	8.9269314	6.8569932	2.6039289	7.421865	0.0000000	8.5109995	13.074436
## 76	8.6090705	4.4925903	7.8221202	8.593650	4.3662872	1.3274574	5.496817
## 77	5.0698139	3.1932356	2.4809113	12.376449	0.0000000	13.5507446	5.215317
## 78	2.0043216	4.8129294	0.4165155	2.879471	0.0000000	3.8466839	8.382252
## 79	3.3615438	2.2042033	0.5997939	11.662086	0.5997939	12.7990333	4.434201
## 80	5.9239478	6.3474991	0.8579014	1.149650	0.0000000	3.4261574	4.385742
## 81	7.8896123	4.5808208	2.6705911	12.632656	0.5732776	11.6355408	11.462018
## 82	8.0178935	3.1099623	0.5350576	12.482115	1.2308793	12.1519892	8.774493
## 83	11.1935995	3.4000870	0.3397075	4.590680	8.4059932	5.0263619	8.863648
## 84	10.4680178	5.0607392	5.6761122	5.346485	5.5041882	7.0762021	9.753889
## 85	9.0593539	7.5777423	0.8717648	1.074848	0.3523066	3.0821746	7.957564

## 86	9.7414321	0.2980717	4.5678375	8.129423	0.5448810	0.5448810	1.817255
## 87	9.9931872	9.6439909	5.9105888	6.837325	7.1339950	6.7646460	6.567626
## 88	5.3128140	7.2807318	0.5818815	9.263298	0.0000000	1.9929859	4.482926
## 89	10.6612321	7.3842458	2.4738648	12.195020	0.0000000	1.4095267	15.064431
## 90	12.0646393	7.2620187	6.7052868	8.383047	1.8209346	1.3333665	4.900973
## 91	8.5213633	10.8667073	8.6376211	8.491492	9.9764981	5.5840665	5.245298
## 92	9.6325649	10.2433221	7.3652341	3.317782	6.3477117	4.3947816	6.545417
## 93	4.4820028	9.7246259	6.4383993	8.554954	4.6665521	3.5659505	4.777656
## 94	10.1460489	8.4104726	7.0312121	4.944830	8.9225568	6.4890483	6.983010
## 95	10.8221775	9.3903302	4.6765044	4.494108	5.9286522	5.0575716	8.653611
## 96	9.9378531	7.0726696	3.8747871	5.314878	0.5270703	5.7876101	3.917518
## 97	6.1613677	3.9683765	1.3191555	2.977829	1.3191555	5.3912487	8.098171
## 98	9.1330649	7.5354286	4.3951656	4.786952	7.0959054	4.3469852	5.553274
## 99	9.4934358	0.3981314	8.2917960	5.687293	5.3136159	5.4871905	6.418387
## 100	9.7659023	0.0000000	6.3928618	3.561803	0.0000000	2.5639147	5.529843
## 101	9.0045402	3.8859745	9.0730203	9.240556	0.3335382	1.0287813	3.696395
## 102	10.2106713	3.1043367	2.5360529	4.217231	9.7180191	2.9634741	3.350497
## 103	8.1477005	0.8312287	10.0564970	10.147519	1.0278618	0.0000000	6.672977
## 104	11.1083349	5.8734072	4.0417161	3.655581	7.0113313	2.9929859	4.943856
## 105	9.8934024	0.3124328	0.0000000	11.703810	0.0000000	0.5691022	7.204924
## 106	8.6885815	0.7004397	2.5078961	4.734818	6.3231665	3.9716447	16.653488
## 107	9.0673924	0.4455148	3.9849903	5.779005	4.1111649	7.8319868	4.657726
## 108	5.6862120	5.0660504	6.3414005	6.591950	1.7317915	4.1325522	4.290638
## 109	7.6254049	2.0420840	1.2243490	6.741807	0.0000000	7.7649061	11.927563
## 110	9.3721612	2.2201132	4.3664901	3.904205	6.1195554	4.0270390	6.091677
## 111	9.5587509	4.5561473	6.7914442	6.164881	0.0000000	5.8125752	4.945903
## 112	9.6316362	2.5845777	1.1696685	6.255370	8.9561682	6.1827777	7.126257
## 113	9.5013667	6.8974183	7.4912951	6.476672	3.3572846	0.0000000	6.259143
## 114	13.0323395	8.2216074	4.3669446	2.805292	0.7360420	6.0492953	7.636649
## 115	9.2180895	6.7931481	0.6786128	5.386745	0.0000000	9.1722702	3.633501
## 116	11.9153636	0.4075159	10.4152729	3.245739	8.9630169	3.4747605	8.391701
## 117	12.4748605	6.9950390	0.5749250	3.804704	0.0000000	5.2183976	6.003555

##	118	8.4100824	10.2102271	4.5148355	10.359672	0.0000000	7.9525712	5.790277
##	119	10.3306625	3.0937292	8.4768159	4.719830	8.6067424	6.1613597	6.222208
##	120	9.8422796	8.0029444	2.3947062	6.365413	0.0000000	3.4035541	16.027165
##	121	8.6461537	7.7227399	0.9306995	8.592973	4.3563903	4.5914580	6.647166
##	122	9.5363172	0.4311415	2.7165081	7.483676	3.1148168	7.2126861	8.404517
##	123	10.2571606	9.5843306	9.8287090	6.567879	5.7972387	7.0941252	7.028590
##	124	11.6949479	7.5021372	3.3040145	7.689210	0.9398284	10.1694201	4.968229
##	125	9.0645846	6.6882153	2.3233124	3.352066	9.9110236	5.0720715	4.562377
##	126	7.5306638	0.0000000	3.3617403	7.935487	0.0000000	2.3835246	5.629587
##	127	8.6593092	7.4148560	1.4742024	8.471155	9.6537071	0.7750927	11.584648
##	128	6.4631254	0.6559929	5.2959874	6.701254	0.0000000	3.9709917	4.810448
##	129	9.7597532	10.6718591	3.1646737	5.465684	3.4120498	1.6307316	4.662274
##	130	9.6384832	9.3231739	4.8025448	10.322514	0.0000000	4.9643247	3.450855
##	131	12.1386585	0.0000000	6.3888439	1.050119	0.0000000	0.4403144	3.145922
##	132	8.8474301	8.3703208	4.6148983	7.585509	2.4202129	6.3720136	6.634672
##	133	9.1733383	9.1183449	2.8643149	9.552480	3.5841568	3.9197500	4.909476
##	134	10.7023570	8.9545220	3.5642196	6.089113	3.9484420	5.7289517	5.661963
##	135	12.2747998	2.0204844	1.6507646	6.451506	5.3376219	4.0523811	7.145981
##	136	10.0162932	6.8999816	2.3992531	6.462982	7.0930530	6.0990890	7.314581
##	137	11.0161313	3.1784278	1.0359054	2.472956	7.8563776	3.3367975	6.285972
##	138	6.7015615	3.8895612	1.4476321	12.208343	0.3650206	12.7362023	8.050049
##	139	9.6606623	0.6763577	11.5995436	6.987622	1.4825385	4.7235913	5.145372
##	140	2.4900566	8.8344698	2.2564974	1.631849	6.1688987	3.1661530	2.690998
##	141	9.0487127	6.4653068	2.6400424	1.384216	0.0000000	2.9715528	7.277862
##	142	8.2076635	6.5181621	5.2464043	11.784870	1.2598449	11.1432739	7.030206
##	143	3.8423956	2.9053124	3.4722668	1.817460	1.0579701	9.5207518	9.111551
##	144	10.3763719	6.6127756	7.8699658	0.0000000	3.1874352	6.6391005	5.329052
##	145	1.4486896	5.8598950	7.8962973	1.725130	2.3321923	6.8582135	8.641639
##	146	8.0669954	4.0868262	6.9514689	3.009974	1.5268200	1.5268200	6.680876
##	147	8.7062346	3.3508084	8.1778187	6.974775	4.9626925	7.1864421	5.123666
##	148	1.7659590	8.9530260	6.1543746	3.700972	2.2020729	0.6782522	5.650182
##	149	10.0537599	8.7107276	1.0817487	6.555344	0.0000000	7.1275239	3.810124

## 150	7.3580665	5.4840930	1.2521128	2.228018	0.0000000	9.3656282	4.378962
## 151	10.5031157	3.9946702	2.8232806	6.793177	1.8206487	7.8226059	9.794147
## 152	7.9853758	9.4281973	4.7631566	4.328937	1.4117516	5.2460052	3.151875
## 153	9.8706569	7.5008403	0.0000000	8.825940	0.0000000	9.8593678	3.852219
## 154	3.6045814	2.7530910	1.8285503	5.419077	0.0000000	7.0454921	9.703653
## 155	8.5998809	0.0000000	7.4186217	4.383124	4.4564908	5.5119708	5.367287
## 156	9.0155904	6.8020032	3.1651241	3.852958	7.7857872	4.8774253	13.429033
##	rs_WDR72	rs_AKR1C2	rs_SPDYC	rs_ATP6V0A4	rs_ALOX15B	rs_TRPA1	
## 1	2.2796496	5.8359468	0.8928184	6.5072365	9.395735	0.8961556	
## 2	1.0590091	4.2793821	0.0000000	4.0469799	8.600491	2.6876430	
## 3	2.3287790	8.8330564	2.6138145	4.9876392	6.978458	1.5002922	
## 4	8.4969025	4.9283845	0.0000000	1.9350825	4.376290	1.1599520	
## 5	0.0000000	4.6535187	7.6141849	4.1408032	7.906328	3.7014049	
## 6	0.6028369	8.7514748	4.5099618	8.7918958	2.745323	0.6223682	
## 7	1.8873693	3.6518668	0.8248086	5.0278441	6.936413	4.6386821	
## 8	2.8598106	3.2242873	0.0000000	5.4171166	4.623282	3.8981503	
## 9	1.0279325	9.4138974	0.6035967	5.8998741	3.858797	1.6220870	
## 10	9.7265603	6.8413291	0.4930324	2.4545971	5.764776	5.1309103	
## 11	0.4164074	7.0569216	8.7822690	7.8673974	6.649102	1.4183519	
## 12	1.8457911	6.2241619	0.0000000	6.8381614	3.950020	3.3753592	
## 13	0.0000000	4.1760275	0.0000000	3.7507244	3.067690	4.0283835	
## 14	1.8800977	6.2868386	1.2268168	5.0518767	8.487473	1.2268168	
## 15	3.8656714	3.5941185	0.7778720	0.4407396	6.444765	7.8765004	
## 16	2.8992723	2.6031456	0.0000000	6.7245561	11.408394	7.0971957	
## 17	6.1460055	10.1854472	0.0000000	6.0939763	4.978122	2.8621340	
## 18	5.7466326	7.0187577	6.4287287	4.0905740	2.576208	9.4980895	
## 19	3.7355980	4.0419876	0.8949923	2.5536063	5.401217	1.9505804	
## 20	2.5572385	2.6260185	9.8438394	10.3646060	8.759999	4.9843068	
## 21	0.0000000	3.5725259	1.7746711	10.2850503	5.971534	3.8031547	
## 22	0.0000000	0.4976379	2.6677105	5.6793985	1.957172	1.9571717	
## 23	0.5566992	1.2705887	0.9573203	8.0861230	3.244217	2.1030276	
## 24	1.5099998	9.2832416	2.5372961	8.7058867	7.144195	2.5546625	

## 25	2.5450788	2.7662983	0.0000000	3.5004961	11.250651	8.0068293
## 26	0.3405053	7.1041762	0.0000000	8.1294216	6.730200	11.4163771
## 27	2.0800095	7.0077573	0.0000000	6.2675395	5.605980	2.2042346
## 28	2.7661923	3.7027351	0.0000000	6.9163895	7.190592	4.1695082
## 29	5.6033118	5.2274407	0.3800645	3.8338717	3.093205	2.8392945
## 30	4.9925419	8.4673211	0.4557546	6.5412267	9.981213	0.4557546
## 31	6.3303146	10.4071493	10.0284498	6.7101672	10.662953	2.0698740
## 32	10.1967639	9.3265477	5.9307373	5.6473951	8.284834	3.3395365
## 33	4.1701815	9.5449932	0.0000000	7.0795307	7.109446	1.2795307
## 34	1.8587767	4.6230884	0.0000000	3.0009555	11.572953	1.4601135
## 35	0.0000000	5.5122142	6.9830289	8.8946238	12.614824	4.9199073
## 36	4.5650731	4.1442667	0.0000000	5.3798081	7.387150	5.4354853
## 37	13.6021098	5.3887199	8.8745508	7.6676410	4.878308	1.6564506
## 38	0.0000000	6.3328941	9.9930193	2.1295138	4.226701	4.0663734
## 39	0.0000000	6.8463554	7.8647216	6.7613930	6.090117	3.6330708
## 40	1.3816710	7.6879166	3.2248738	0.7157177	5.813381	4.7068399
## 41	4.2494909	5.8984236	1.2082675	6.7514677	5.248846	4.8643595
## 42	3.0208044	7.5990678	1.8567069	8.1041317	5.020640	5.4775122
## 43	0.0000000	9.5142643	3.7531017	5.6955707	3.243486	0.0000000
## 44	0.7004397	4.9972879	0.3923174	2.2480186	5.255138	7.8043847
## 45	6.5046188	9.8659837	0.0000000	0.9826560	6.349208	1.5665229
## 46	4.3964472	3.6635040	5.9521006	6.0426881	7.761023	5.7214438
## 47	0.0000000	7.9680642	0.0000000	0.0000000	8.120014	4.2809637
## 48	3.9756669	5.3322246	8.3601009	5.9121373	7.215418	1.5983176
## 49	8.6060994	7.6624512	0.0000000	0.0000000	5.052042	10.8018906
## 50	3.4574236	8.1437720	0.4028313	3.5440278	4.966993	6.5729018
## 51	6.5275521	5.8666879	0.0000000	5.2744853	2.811533	1.3697736
## 52	4.2529227	5.9380081	1.9717367	7.3841085	6.748671	8.1240225
## 53	1.4009204	4.1749816	0.4093638	5.2258649	4.622105	12.9613486
## 54	5.5141444	5.2839255	8.4790992	9.0104968	9.898238	7.2769581
## 55	1.7592411	6.1987063	0.3765127	5.9500694	9.910253	1.8845198
## 56	0.0000000	5.7188548	7.4421539	5.7299578	5.476748	1.9440338

## 57	1.4885664	8.1488848	0.0000000	7.1918775	8.615425	2.4221792
## 58	2.3685728	5.7595633	0.0000000	3.9759328	6.776011	2.4696516
## 59	4.8272246	3.3818232	7.2597941	2.0838941	7.552375	4.8520038
## 60	1.3885753	5.8353860	8.0338348	7.6047267	4.461856	1.4077878
## 61	0.0000000	7.7396915	0.0000000	1.6463470	5.217890	0.9358369
## 62	1.3124328	6.0632980	0.3748447	1.8759373	7.081205	1.1288873
## 63	5.8343016	4.5023370	2.6194600	0.0000000	3.807190	1.5338623
## 64	0.8698714	9.0814914	0.0000000	3.6535875	5.539500	3.1474695
## 65	7.2313950	3.7703216	0.0000000	10.2628957	5.039481	3.5880850
## 66	0.8656813	5.7149186	0.0000000	0.8656813	3.736930	11.6779434
## 67	3.3227935	8.1007449	0.4153260	3.2738739	8.942497	0.4153260
## 68	2.2426330	5.0595846	1.9258096	2.5793733	5.446719	0.3907777
## 69	2.6858953	6.1166080	0.0000000	2.7357821	4.150332	2.9261892
## 70	8.7387770	2.6248495	3.5460795	9.8202643	3.983267	7.9483988
## 71	2.2477453	4.8694322	0.0000000	10.1622720	3.390104	4.5159584
## 72	1.0992279	6.3528150	0.0000000	7.2424015	11.881894	1.7158055
## 73	0.0000000	9.2294891	0.0000000	6.0406448	7.935952	6.6504285
## 74	8.7414414	5.1892592	0.0000000	2.4230403	3.845982	1.2953116
## 75	5.0191948	8.7154991	0.0000000	6.6879229	8.586810	0.9652487
## 76	0.8113066	2.0069084	0.0000000	0.0000000	9.685347	2.1363555
## 77	3.5475115	14.1172670	0.0000000	3.2713958	4.112141	3.7829117
## 78	0.4165155	3.4202803	4.6104048	1.5888046	6.529282	4.0985543
## 79	3.2090478	12.6408249	0.0000000	1.0221192	3.563732	2.5073126
## 80	1.5998414	7.9959966	0.0000000	10.3582869	5.659873	3.9694176
## 81	2.1425115	12.4647535	0.0000000	4.9657704	4.214459	2.1472741
## 82	4.6835224	13.1669130	0.0000000	7.1033560	6.027063	1.2336427
## 83	7.6214065	11.8544340	0.0000000	2.6574800	4.386100	10.6683511
## 84	5.5041882	7.6472987	8.5085293	5.2158533	6.196210	3.6473145
## 85	6.1268015	8.7713617	1.4113178	7.6410901	6.001588	3.7593902
## 86	7.6533553	0.9395275	0.0000000	1.9082749	3.020307	9.1700112
## 87	0.0000000	6.9649300	1.8654438	5.1842882	6.976334	2.5809896
## 88	5.0133104	8.2050034	6.0131652	0.0000000	6.374469	2.4517782

## 89	0.4998841	6.6314943	0.0000000	5.9318627	6.424501	2.4738648
## 90	3.1868016	3.8505394	2.4749811	6.0130267	1.471552	9.0829694
## 91	0.0000000	4.5600240	6.6012776	7.3744631	8.669731	4.3257750
## 92	8.8248067	5.6875730	3.9405520	11.1288561	4.353168	6.7968235
## 93	2.6046881	7.5392085	0.4209405	0.0000000	4.830154	1.9008765
## 94	5.9943693	7.8806274	0.3634515	6.7798178	2.977610	3.5440897
## 95	6.0112519	2.7052702	0.3517414	0.3517414	10.801124	0.8705028
## 96	0.5270703	5.4226266	0.0000000	0.0000000	4.779149	4.3784700
## 97	1.1350094	9.4814277	5.9612483	6.3317321	6.155326	6.4847601
## 98	0.0000000	4.3951656	3.1046554	7.0995445	5.685077	8.4630751
## 99	6.8741883	5.1424584	7.5729033	8.1681456	7.294933	13.8549875
## 100	3.2991860	4.3335096	8.2739998	3.0651759	3.930548	0.5765705
## 101	9.1855554	2.5708272	7.8116451	10.9680048	6.939185	2.3677065
## 102	0.0000000	3.7441611	0.4854268	0.0000000	3.405992	1.9259994
## 103	0.6035967	3.0483583	0.0000000	7.6787487	3.806015	1.2008182
## 104	1.5527213	3.8615286	1.5527213	5.6360039	6.545809	12.9457769
## 105	1.5531147	1.7731946	0.0000000	2.6598789	3.813289	0.7889362
## 106	9.8338921	5.2785610	7.2144308	5.8471676	6.744945	7.7405046
## 107	1.4901080	5.3115794	0.0000000	3.6937546	5.216509	0.7884351
## 108	5.7498292	8.9925948	0.3675947	3.1431648	5.661613	6.6571541
## 109	3.6013518	9.3454396	3.0998338	2.1902672	7.377423	3.4389848
## 110	5.0560979	5.7959124	7.0488018	8.3822695	7.616741	7.6783466
## 111	0.0000000	6.4160104	2.6031456	6.8834803	5.836803	2.4540969
## 112	4.6044272	4.9342381	0.0000000	3.6625473	5.010789	8.2001635
## 113	8.2487649	5.5619523	0.0000000	7.9010950	6.259143	7.3700858
## 114	0.0000000	4.0274903	0.9987732	7.6473210	6.655833	5.6140237
## 115	0.0000000	0.6786128	2.3795932	0.6786128	7.611625	4.4208192
## 116	0.0000000	2.9733909	5.0148730	1.2050797	7.344771	6.1170155
## 117	1.3038100	5.0473857	0.0000000	3.6998958	5.691344	8.8481631
## 118	3.7540537	3.9991522	7.3187760	10.6113918	5.987798	3.6856711
## 119	8.7363965	5.2216722	0.0000000	4.7568578	9.952871	7.1057514
## 120	3.3290949	2.3947062	0.0000000	1.2208252	8.763513	1.5176284

## 121	7.5967049	6.3272059	5.8375623	10.1236498	6.406404	7.6965719
## 122	2.7165081	7.1290017	0.7626465	4.3578968	6.957672	6.6168943
## 123	4.0310069	6.4840753	4.3667139	3.8642357	8.100140	7.4933023
## 124	0.9398284	4.4871261	0.0000000	7.4874478	3.258609	2.8421341
## 125	4.6104698	3.4075567	0.4859420	4.7565537	6.059156	15.2227217
## 126	4.3205785	3.8991370	0.0000000	6.6456541	3.529221	0.8825257
## 127	7.5660137	7.6679283	8.2327245	5.8732078	4.674681	3.1127001
## 128	3.5776343	5.0040654	0.8980922	6.2117871	6.000998	11.1043698
## 129	0.0000000	4.6859682	0.0000000	4.1516316	14.254433	1.8139351
## 130	0.8701871	8.8701665	2.4733973	10.9075672	14.004904	2.4733973
## 131	0.0000000	0.7771988	5.9381470	9.0709034	2.401275	1.0575542
## 132	2.8264773	5.6238727	0.0000000	0.9034240	13.074373	3.0762170
## 133	2.6997071	5.8265968	5.5765705	9.3633384	8.393590	6.3948039
## 134	1.3242346	9.3418902	0.3793992	6.8827665	5.618459	4.9504824
## 135	0.3848235	2.7673582	0.0000000	7.2994562	8.647018	7.6152839
## 136	4.9103633	7.8887329	0.0000000	4.1780214	4.640499	2.0035303
## 137	6.2465981	7.2831986	4.5489914	8.2085655	7.494029	5.6563905
## 138	1.1054769	1.1054769	1.5923972	9.7913480	4.023309	0.0000000
## 139	1.8842462	3.7613597	0.0000000	0.3775125	9.304527	3.7514637
## 140	4.4026608	5.9706880	4.5649878	7.4770458	5.129489	7.8931268
## 141	4.0266142	10.8489341	2.2088918	9.4476257	3.915540	2.3351116
## 142	3.3313613	11.3493432	2.3740935	2.4680098	8.185372	7.7961084
## 143	9.4399042	6.3537855	2.6802793	6.7515869	1.487126	6.3660756
## 144	2.0544665	4.9835637	6.6194013	4.6105052	6.721482	3.1995153
## 145	3.3940751	5.9501044	4.8270772	6.8108454	5.467283	4.8270772
## 146	1.9344033	2.2518403	0.9565771	5.9793029	6.713573	5.0974465
## 147	0.0000000	5.9393723	0.0000000	0.4521737	2.998863	6.2038256
## 148	0.0000000	5.4468186	3.4065095	8.2642765	3.406509	3.0361340
## 149	2.1209491	3.0128726	0.0000000	2.7980920	8.453241	1.0893626
## 150	0.0000000	13.9610905	5.0549874	10.3527672	3.535331	2.6063948
## 151	5.9607712	7.2758247	0.0000000	2.9229780	8.905739	6.1234117
## 152	3.4546892	4.9098355	0.0000000	6.0116678	11.591552	1.9764370

## 153	2.5832302	9.0283796	4.5167401	7.0313599	12.172751	4.9037710
## 154	0.0000000	6.6095585	0.0000000	5.3754009	5.996364	2.3734533
## 155	7.9736928	6.3497050	8.8466882	1.2392147	6.003103	7.8192013
## 156	0.5831339	10.4804331	0.0000000	2.3176224	9.439623	6.2005161
##	rs_ELOVL2	rs_SLC26A3	rs_LGALS12	rs_TRH	rs_SYTL5	rs_KNDC1
## 1	4.8503094	5.9799910	5.3519639	1.1923204	6.4588725	5.0869154
## 2	4.5254613	9.1806273	0.4448791	1.6630713	8.2009275	1.8188915
## 3	11.2368735	3.7083307	5.3400708	3.7083307	7.2658822	6.9909583
## 4	10.7563010	1.9350825	3.5222064	7.6633062	10.4121182	0.4889263
## 5	11.8013631	3.1576743	2.9514572	3.9319761	6.8956250	3.5481037
## 6	4.3356333	0.6028369	4.2980864	3.1342374	4.8839629	0.6028369
## 7	3.1856604	1.8873693	1.5500634	0.8248086	2.6778916	1.5500634
## 8	5.2688610	0.0000000	2.2705588	1.0308304	0.7617108	0.4304994
## 9	7.0090873	0.0000000	0.0000000	0.0000000	5.8487656	1.3553546
## 10	9.7348617	1.3948982	5.0346735	3.4835449	7.1031199	0.0000000
## 11	10.3943892	2.4193501	6.3918175	1.2253983	2.4193501	5.8631902
## 12	4.6276827	1.3118518	6.7415263	2.9395275	5.2782004	5.7045677
## 13	4.0206089	0.0000000	0.5474498	2.3656086	0.0000000	1.5089864
## 14	10.2623437	2.6694577	3.6315816	2.8139761	8.0095622	2.9453080
## 15	8.0884835	2.8225466	3.7931572	3.0260918	9.3094698	1.2804813
## 16	7.2773348	6.9512882	1.7256539	4.2122425	8.7347486	7.3320742
## 17	4.0416110	6.5897290	2.5889724	3.1607750	6.6145626	3.6674040
## 18	10.8714975	1.3375969	6.8427765	14.1031069	9.0514575	0.0000000
## 19	4.9177086	2.9775913	2.4054206	4.2945693	6.7835470	9.0141206
## 20	12.4328271	0.0000000	0.0000000	4.9756348	6.4887383	7.4117415
## 21	4.3196757	5.5548804	2.4434740	0.8537562	8.0517674	7.3329406
## 22	5.9531605	0.0000000	4.0575109	0.0000000	2.2347466	5.7137700
## 23	3.7271036	2.1030276	1.9355352	0.5566992	5.0034718	0.9573203
## 24	3.0040879	0.0000000	2.5372961	0.4537546	1.3094673	1.6860298
## 25	8.0254264	6.8512581	1.9641398	1.1951586	6.6984060	9.3336125
## 26	11.3502506	1.2210728	6.0894621	5.6435532	7.1097492	3.5748402
## 27	10.2519986	5.9536284	3.7219304	3.7983098	8.7090962	0.4422269

## 28	5.7999939	5.7453046	1.9640659	1.1657512	5.3206183	2.3631991
## 29	10.9951930	3.6382592	3.5295086	3.8338717	8.4769487	1.1410403
## 30	10.5797763	7.0898795	4.2063932	5.1058247	8.7384868	3.5112403
## 31	12.7246747	4.8486580	2.5280712	4.9261228	9.8781848	0.8437427
## 32	10.0203465	1.0374525	4.8614691	2.1727435	9.8321405	0.7670615
## 33	9.2880787	7.0605144	7.7359662	1.0445340	5.8675456	2.7371892
## 34	9.9697481	12.9927149	3.7289218	2.9197977	6.4030154	1.2100771
## 35	4.0646759	6.6461396	4.7537543	2.5252420	7.0402974	8.0920298
## 36	5.1729875	2.1447317	2.7138937	0.0000000	3.3800090	1.6502131
## 37	10.0039798	1.6564506	3.0562540	13.1421347	8.9046674	6.2296302
## 38	3.0555427	1.0875986	1.8204036	3.4390646	3.2386799	1.4264795
## 39	6.0901167	0.0000000	4.2132773	2.6472454	7.5162642	0.5247658
## 40	6.7192848	0.0000000	5.9619914	1.5493242	1.5493242	2.1802752
## 41	5.3680908	0.0000000	0.9876119	0.4088205	1.3995539	0.0000000
## 42	4.0317481	0.8066128	4.6203401	0.4589069	3.6130719	1.6991962
## 43	3.6543897	0.5318680	2.1911520	0.9196833	1.6911768	1.8777442
## 44	6.8926545	4.8329963	3.7549944	4.6831013	7.8827555	5.1319681
## 45	7.5121637	6.4249137	7.9367645	3.9215506	7.0042677	7.3403326
## 46	7.9893831	4.0603414	2.5214277	3.3388950	5.5973822	8.2672694
## 47	6.7790903	5.3753140	7.1142140	0.9312292	3.4562542	0.9312292
## 48	5.4126969	0.9004128	1.9592879	4.4651648	5.1328565	9.6854784
## 49	9.9098794	2.9696939	5.3727014	1.9438838	11.0624027	0.8907969
## 50	11.7650818	1.3842709	6.0873377	2.8318165	10.1448749	7.1472263
## 51	3.0509718	0.0000000	2.0595629	0.7081431	2.9362139	2.6750481
## 52	12.1103408	0.6147570	3.2879598	8.6883563	10.5097361	1.2193389
## 53	8.4544840	3.7160141	9.6743314	1.4009204	7.1869442	9.7311366
## 54	9.6021989	4.9281666	2.3942946	3.4967435	4.4780658	1.8004961
## 55	9.1888064	2.6705458	4.9732163	2.3713079	9.6936128	0.3765127
## 56	0.4924172	0.0000000	6.4199029	0.0000000	1.7828279	2.4529117
## 57	8.3314495	7.2816927	7.7901223	0.0000000	6.9811802	5.6474613
## 58	11.2798804	5.5086283	1.8329710	2.0715224	8.4158013	4.9141005
## 59	7.8572744	0.0000000	2.9028454	0.0000000	0.3723950	4.1041186

## 60	5.1174125	0.0000000	2.4101511	2.8486380	3.3462478	1.0557510
## 61	13.4752717	5.3742675	6.5658728	1.3343967	4.5744528	0.3832757
## 62	9.3460780	1.6215244	5.3595352	2.3656925	7.0132434	0.6721085
## 63	12.0180274	1.6628435	2.2603870	2.2603870	1.6628435	0.8579014
## 64	11.1046483	3.2762733	6.5935480	11.7570043	8.8001434	4.0989332
## 65	4.4703351	0.6320820	0.8676593	0.0000000	1.0701145	1.5480913
## 66	10.5250892	2.0052922	5.0709860	2.6962832	8.1968672	5.6767808
## 67	9.7480350	2.6637772	6.7288729	4.6254166	8.3774465	5.2614631
## 68	12.0805334	5.1882387	3.5712885	4.8577123	7.1103392	5.2949625
## 69	9.2668713	3.0828388	2.7357821	1.6031219	5.9938193	5.3118954
## 70	10.9999608	1.6169693	1.0240359	3.2650768	9.5640210	0.7562547
## 71	12.2994084	2.0313246	4.6461972	2.7980505	9.9075182	7.0636604
## 72	10.0765846	8.4410132	5.3703596	1.5380415	4.3248394	1.0992279
## 73	5.2991128	0.5994130	5.9728741	0.3305584	0.3305584	0.5994130
## 74	4.6182504	2.8294843	4.2939222	5.2676032	9.9843124	0.6614760
## 75	8.5445047	6.4275961	6.9854355	4.9615631	7.0730790	4.1299341
## 76	9.5582317	0.8113066	0.4619476	4.1066749	9.7309104	0.8113066
## 77	6.2156747	1.3377111	10.8136848	0.0000000	1.6025044	2.0197019
## 78	4.8635619	0.0000000	2.7418768	0.7392433	2.3265661	1.2257068
## 79	6.1622624	0.0000000	10.9970267	0.0000000	0.0000000	1.3484591
## 80	5.9431243	0.4918018	0.4918018	0.0000000	6.0442717	2.2190601
## 81	8.1521271	2.2937236	11.2546855	2.4305797	5.9310093	4.1365605
## 82	6.3702393	2.0507455	10.5349956	1.6983074	5.8247755	3.2527335
## 83	10.6348681	5.7992272	3.3256311	2.5954559	8.0692451	2.5306451
## 84	8.6624103	0.3346827	5.0148730	4.0812459	9.5403278	5.8363231
## 85	5.5521250	0.6353365	0.6353365	0.8717648	2.1108643	1.4113178
## 86	10.0560433	8.1918888	0.2980717	5.5861612	7.8978110	0.0000000
## 87	10.8919408	1.5766672	5.3801649	3.5329403	8.0644124	3.0479397
## 88	10.8505808	0.0000000	2.4517782	3.3838563	9.5249683	8.2170964
## 89	6.0716640	0.0000000	2.2409554	0.4998841	5.7770462	8.9538333
## 90	4.3399569	4.6031456	1.1804662	3.8505394	8.9122313	0.3257318
## 91	3.5553867	1.9517370	2.8979955	3.3166961	6.2602967	7.9013388

## 92	9.4428940	4.0224743	2.2891262	1.6291468	10.1110888	1.1350094
## 93	2.4342679	1.0118534	3.0206978	4.1922573	2.1336950	4.9614705
## 94	8.5136088	0.3634515	3.4631908	2.7507566	5.4012448	5.5760656
## 95	11.0496643	3.6861643	0.8705028	1.5521803	6.9717436	0.0000000
## 96	5.1809952	2.7511638	3.4197007	0.0000000	8.2828100	7.4707508
## 97	4.0746168	0.6763577	3.2285417	0.9237957	3.0834006	1.3191555
## 98	9.2074698	5.6557125	3.1046554	4.2189904	8.4209771	0.0000000
## 99	11.6426446	0.3981314	5.0486111	3.3071516	7.0745568	0.7098200
## 100	8.5158756	4.8084932	2.6790634	5.4510165	10.1527750	1.7893537
## 101	3.2604171	6.6600672	3.2990541	6.8541752	8.2367327	1.0287813
## 102	9.6172838	1.5849625	2.8875253	4.2479275	9.4392076	7.5125430
## 103	6.4849663	3.2587300	1.8469546	3.4763687	8.9611678	2.5692723
## 104	9.4460695	3.6991962	4.4770556	0.0000000	7.6338787	7.9368134
## 105	12.4735470	2.8653250	1.1433934	5.2478022	9.0011985	0.5691022
## 106	11.5986305	3.1396496	1.9308130	4.3038903	7.3751515	0.9542708
## 107	3.2205931	9.3299786	4.5504390	5.0373646	7.6175005	8.0346867
## 108	7.9822407	1.5998890	3.5167842	14.3494280	10.4184571	0.9034240
## 109	7.4193274	0.0000000	7.1291903	6.4051585	2.6658021	3.0228472
## 110	5.6118865	3.8046835	0.9985566	4.3664901	8.5644475	7.6648348
## 111	5.9886847	7.4156024	3.2579158	0.3975839	8.1513322	7.5920204
## 112	11.3159252	1.9693071	5.9595592	2.4807563	10.6394178	1.4147309
## 113	7.5879297	0.0000000	2.4390912	1.7708290	4.9614752	0.0000000
## 114	11.5496269	5.2706784	0.4144603	3.8390627	3.6982185	5.1541700
## 115	4.9831578	0.0000000	9.1480395	0.0000000	2.2026998	6.7615539
## 116	7.0713079	0.0000000	1.3961047	0.9848445	8.5036079	0.9848445
## 117	9.6189582	8.9355095	4.4140137	4.8655131	5.5477336	2.0643310
## 118	1.8066953	1.5229597	1.1694120	0.0000000	2.7271581	4.1590236
## 119	11.6147342	5.6336637	4.1802752	4.1246921	9.0983435	3.1504947
## 120	4.0621217	1.7636240	0.3405053	1.8725136	5.4101545	0.8467942
## 121	11.4816136	4.8399243	4.4188443	2.7845668	7.9191684	1.2383589
## 122	11.4964166	3.6431635	6.2457428	2.9293555	10.7062907	8.3985736
## 123	6.2334145	1.6514536	4.9025801	10.7674607	6.8437000	1.4774701

## 124	5.1028219	4.4061285	4.5823633	0.0000000	3.9719941	4.5638110
## 125	8.7303292	1.0008654	1.4865599	0.6787029	5.6105052	6.3344181
## 126	11.7807252	0.8825257	2.7877041	2.8732423	6.3120879	0.0000000
## 127	9.9210018	0.0000000	1.0475384	3.0821405	4.4814927	2.6632991
## 128	8.8432754	0.8980922	2.3306158	8.0528701	8.2702327	6.4910979
## 129	9.6786607	3.9314278	2.5926364	0.8786861	4.4010775	0.0000000
## 130	4.0282332	5.0569346	3.2139693	1.1647219	7.1968273	3.5044679
## 131	2.4955673	0.0000000	0.0000000	1.0501186	4.9364825	10.2804040
## 132	9.5969927	4.5358974	0.5212518	4.0590783	2.4202129	3.5167590
## 133	5.7861102	2.5138444	2.8643149	0.4777809	3.9566979	1.7466137
## 134	9.0419167	1.6348720	5.2705140	1.3242346	6.3346970	8.5316860
## 135	8.5829014	4.2507570	3.1616620	2.1252874	9.3798982	1.3383388
## 136	8.6295045	1.4383461	3.9172981	5.3491034	7.0518093	2.1441443
## 137	5.4616333	0.7657893	1.7870145	13.5703912	10.9072421	6.0317878
## 138	1.5923972	0.0000000	0.8982471	0.0000000	0.6561760	0.0000000
## 139	7.7866820	3.4019171	1.9966418	4.0488813	3.3178829	0.3775125
## 140	5.5981002	2.6909981	0.5056877	3.7196873	9.8421564	0.5056877
## 141	6.8087853	0.0000000	2.6400424	0.4881036	4.0618194	1.5911528
## 142	6.4333952	0.0000000	7.6890992	1.6285870	9.7519370	6.6492317
## 143	6.5881494	0.4443490	5.4207418	1.2884176	3.9806469	0.7834986
## 144	2.6795589	0.0000000	5.3767662	2.7776196	3.9880666	9.0199651
## 145	6.4123429	0.0000000	1.2876496	0.0000000	2.0603587	0.0000000
## 146	9.8537320	0.5562087	0.5562087	4.7975785	7.2743549	2.5118981
## 147	8.9393547	2.7843783	5.9735791	5.5773382	6.1559232	5.7151301
## 148	9.0975547	0.0000000	2.2020729	3.7660651	2.2020729	1.1378314
## 149	4.9951362	1.9918982	2.7980920	3.6482468	6.4301698	6.9821996
## 150	3.2856537	0.5465611	1.7238206	0.0000000	2.0787123	1.2521128
## 151	10.2978629	6.2326281	6.8417618	4.8123082	6.1475774	1.0092755
## 152	4.5998533	1.1670367	3.6581543	4.1036067	5.4652170	8.4189598
## 153	5.2575387	7.3595396	0.8221999	0.4689482	9.5199768	9.7959586
## 154	7.3575379	0.0000000	3.4863668	0.7119354	4.9081932	0.7119354
## 155	10.3882647	1.0625362	3.9723159	4.4202735	7.5417262	0.8610819

## 156	3.4545181	0.5831339	7.4663057	0.9973285	3.3170725	6.8275371	
##	rs_CHIT1	rs_HGD	rs_CHST8	rs_VTCN1	rs_ROB02	rs_INSM1	rs_PKP1
## 1	5.6759062	8.8583053	7.5886877	10.866273	7.2088918	4.4588938	10.2874775
## 2	3.9491707	8.6125221	2.4151637	12.648143	5.8323508	0.0000000	7.4064882
## 3	6.4483774	7.6063897	6.0627175	10.775752	3.2897017	1.6757256	8.4435329
## 4	5.7069587	7.3924866	6.9405849	4.928385	10.6294076	8.4343442	6.1699951
## 5	6.2606561	6.7439013	7.9205535	13.418577	4.3514587	3.9689478	6.7060788
## 6	2.9528367	6.7458800	2.5028398	11.849934	3.2170446	3.6335242	5.7100763
## 7	8.9835817	5.3613473	1.7285301	11.705961	0.8248086	2.4925711	6.9678660
## 8	8.0091495	1.2575538	5.4171166	12.093515	5.0741243	2.7889989	12.1148230
## 9	1.6220870	0.0000000	1.6220870	12.727193	0.0000000	3.2192150	12.0731682
## 10	1.7842946	1.7842946	1.9455702	9.164468	3.7687031	5.1550327	5.3549704
## 11	2.5068558	10.3551296	4.1749337	12.183860	9.3466250	2.1195554	6.6776731
## 12	3.4604018	9.1733096	3.6427016	10.299725	3.0076082	5.4713663	9.4964044
## 13	5.3135252	1.2537473	0.5474498	8.350374	2.4893374	2.7088935	11.1559790
## 14	5.6610056	6.7400924	7.0114073	12.642752	8.7435348	8.1591271	8.5762844
## 15	3.1474207	8.3914253	9.2873659	6.068260	4.1239889	8.8802260	3.8656714
## 16	6.6065414	6.4780059	9.8407982	10.643426	10.5448170	2.8071694	4.4130931
## 17	3.0917168	4.4530566	4.0045194	9.252934	2.5889724	4.7505904	9.3586916
## 18	2.9768952	3.8822224	6.4728094	1.876880	6.7122711	3.7244757	8.2323379
## 19	2.1500072	7.3927081	4.1153746	12.825105	2.0537369	1.2824991	8.1148480
## 20	5.9186558	8.0379269	8.9539016	6.181142	3.4671360	1.1040682	10.3156690
## 21	4.9851816	6.4016219	2.4434740	9.275441	0.8537562	2.3322496	9.8878652
## 22	3.6942116	0.4976379	2.3557493	11.276601	0.4976379	0.4976379	5.1198832
## 23	2.3889610	8.6883769	4.5317370	4.309947	1.2705887	8.0735696	9.8986046
## 24	2.5372961	1.5099998	0.7984238	10.375763	2.1132337	1.3094673	6.8573715
## 25	2.1848198	4.5978053	7.2253309	13.663631	0.0000000	0.0000000	5.9452284
## 26	2.3950628	7.2013359	1.5178804	5.803405	1.9740520	6.1875837	10.6769163
## 27	5.9026404	8.0730313	9.2079597	12.275009	6.6643463	0.7802261	8.9779327
## 28	10.7133242	6.3762991	2.3631991	8.760707	6.9506352	7.8777252	8.7044771
## 29	6.3156785	8.0299635	7.4846376	13.044041	8.3481213	0.3800645	5.4820996
## 30	7.4222414	7.0006186	8.9645153	13.409955	4.9756073	5.0092800	10.3457038

## 31	5.8828998	5.3339925	5.9585898	12.516601	3.6464622	0.4826418	9.5719346
## 32	8.5098098	9.4025634	8.6848408	12.339503	3.9435463	2.8001026	5.8275523
## 33	7.2835505	9.2913448	6.2362802	12.931119	5.5669521	0.4374408	9.5138744
## 34	5.2226423	6.5246326	4.8148272	13.546597	5.1709786	8.5197326	7.5642730
## 35	5.5465025	9.5577562	3.0562367	8.612550	5.9651124	1.0688084	8.4439278
## 36	10.3906642	2.9716263	4.2124293	12.216830	2.9716263	3.8339628	12.1304146
## 37	7.5697022	2.0047890	5.4609981	10.680844	3.7531659	0.5165195	6.9901607
## 38	6.3227898	6.9599394	3.2810454	12.205074	7.1969031	3.6149925	3.4011526
## 39	7.1072987	9.9102687	0.5247658	9.499890	2.1730635	0.5247658	10.2898002
## 40	8.8501900	1.1918784	3.1221923	11.808975	7.9889726	7.6282844	11.5814754
## 41	5.3215710	3.8837381	0.9876119	8.830102	2.0964305	0.7270927	11.5146695
## 42	11.9573587	8.6648888	1.8567069	10.880287	2.1278974	1.9986649	9.7358887
## 43	2.5617172	1.4767964	8.1838363	13.390073	0.0000000	0.9196833	8.8628121
## 44	0.9542708	7.4492609	2.7945198	8.675408	7.2083466	1.6725159	7.6466710
## 45	11.8246243	9.4142793	4.1764425	11.084686	6.2323250	7.1747719	5.1359863
## 46	3.0521724	6.0266363	7.4236950	12.640114	3.4870361	0.7903550	9.3823272
## 47	6.6547534	3.0971725	1.8955741	12.857671	9.6262542	6.6373349	4.6015123
## 48	10.0970369	5.2359797	5.0967763	11.155672	6.0817082	2.6321984	9.0559174
## 49	6.8548609	8.9296055	10.5440248	9.685814	6.2831680	11.1958752	4.2213976
## 50	7.4102029	5.2974996	10.3244760	12.229332	4.1755725	4.6342680	6.9583718
## 51	3.4775996	0.9639180	6.5275521	12.998392	1.9454953	1.8216694	9.4439808
## 52	8.3198712	6.9230386	7.0700544	8.886014	4.0595976	4.9674868	4.7709242
## 53	3.3945141	9.5772785	7.4148738	8.369722	5.1209408	6.3926420	5.0934714
## 54	8.9518404	7.0854618	2.2934882	12.252069	5.6629859	6.6384403	9.8629466
## 55	4.5824175	5.7407846	9.7157779	9.867609	0.6747318	0.6747318	6.5731306
## 56	5.8770203	5.4230403	6.5063750	11.726349	0.0000000	2.0890574	11.4213600
## 57	3.5204474	8.8241295	3.6915342	11.102859	3.7700361	4.5028907	10.5714771
## 58	8.2929897	3.3174922	8.1243757	13.683166	8.7756258	1.5469562	9.9571496
## 59	5.7629892	1.4683226	10.1895784	11.429916	5.5161318	4.1763946	12.3938653
## 60	2.1719113	9.2314478	6.3559959	10.520360	2.1719113	0.0000000	4.5308074
## 61	2.8251547	5.6612993	5.2981964	10.562019	3.4651125	10.4202192	6.8735622
## 62	7.1819275	4.2996110	1.6215244	5.059260	9.9701099	0.6721085	8.0258300

## 63	6.2378352	1.5338623	4.4134655	6.637661	9.7440655	7.8290218	4.4849952
## 64	8.2917265	7.7447518	10.1956189	11.961662	2.4727737	0.4994760	7.2001512
## 65	4.2793227	0.8676593	2.4325052	10.812390	2.1933302	3.9858920	12.5986017
## 66	4.7713785	7.9649317	7.6749500	12.842309	4.8827849	10.7085265	5.0231489
## 67	7.6827811	7.2329773	7.3643614	13.102226	4.9858237	1.5855875	10.0941587
## 68	7.7293074	5.6746668	7.8333171	11.945175	3.8763991	1.5191896	8.8881289
## 69	8.0865784	3.1941186	7.5790700	10.423413	10.8077093	6.4771722	8.3027052
## 70	4.3911903	3.5460795	5.6614788	4.818600	7.4653068	1.0240359	5.3804663
## 71	2.6538167	0.9124199	6.5591109	5.307330	10.4259757	0.5271704	6.8263387
## 72	6.6658063	9.0855245	1.8740887	14.357621	1.0992279	2.0166746	9.3389832
## 73	11.7841776	1.1938979	7.9555424	6.382157	3.5627187	4.1278066	9.5093550
## 74	4.2939222	3.1928727	1.2953116	10.846064	3.7242574	3.7863977	3.7242574
## 75	7.9071767	8.9493403	8.7835958	13.290145	3.9038385	1.1825652	11.1153430
## 76	5.5788451	9.6866695	4.4433878	8.603482	6.3196793	5.8482248	6.4374358
## 77	9.0827941	1.0131406	3.7246503	6.610896	4.8066179	1.0131406	9.0289694
## 78	2.4197276	5.4319137	0.4165155	12.115176	3.1750615	0.0000000	11.9847297
## 79	6.4009682	2.0330882	2.2042033	2.737708	5.6429643	1.6144272	8.9965972
## 80	1.5998414	1.5998414	6.9168767	13.225498	3.0551783	0.4918018	10.7249227
## 81	3.7221928	5.2323691	6.0312761	10.782455	4.9881211	1.5614972	9.9863609
## 82	4.1014148	4.4952922	3.1831053	11.240761	5.3080477	2.3337958	11.1603954
## 83	5.8129192	10.9152693	6.9867477	12.112741	3.7524061	0.6143800	7.5978760
## 84	10.4967182	8.3115676	9.3548794	12.948582	4.6600387	4.0812459	5.5927112
## 85	3.4539784	1.5540485	0.6353365	12.590541	8.8921952	3.7493305	10.9192703
## 86	3.9713688	2.8003305	0.0000000	1.249021	6.9079878	6.8574959	3.9285314
## 87	3.8628679	3.8297278	8.0006891	12.905794	7.4633543	4.0757465	6.8985470
## 88	4.8238716	3.3135216	7.4253351	13.300698	1.9929859	0.0000000	1.8007032
## 89	2.6743703	3.7466997	3.0072134	11.765573	2.1086917	2.8503594	2.4738648
## 90	1.5976504	7.9788958	2.7710615	3.264912	9.7846483	9.9348292	1.3333665
## 91	6.8367106	8.1123149	1.6559471	11.175512	8.7257875	1.2834477	9.6022607
## 92	5.4317934	3.5565030	5.2956312	10.740059	12.5105246	4.4745723	9.1313647
## 93	5.5980525	10.1997893	4.0519463	10.169972	9.2872587	0.7464848	7.7582359
## 94	1.7190958	7.5421559	7.0248781	8.272907	10.7615155	3.7963901	10.0011016

## 95	6.5762712	8.5113142	7.5261079	12.732966	8.4926367	4.7073260	6.9364071
## 96	6.1430791	7.5911116	5.7990795	11.507047	3.4197007	2.7511638	5.6166312
## 97	3.3604064	4.6220167	2.2891262	11.672627	3.1817705	4.1735672	10.5502704
## 98	6.0359845	10.6508477	6.9341084	12.346317	3.6326056	6.1804522	3.5066908
## 99	5.1808838	5.8550952	0.7098200	8.777788	4.0227051	6.4183873	7.9332528
## 100	2.4387719	3.3694525	9.7560994	7.088637	9.5587668	0.9873936	4.0636755
## 101	7.8116451	7.5802744	1.0287813	9.784871	0.8320393	7.1334176	9.9172673
## 102	1.9259994	1.7655347	5.0617762	8.729961	3.9068906	5.1292830	8.5243458
## 103	7.0434003	9.6268231	1.6219464	8.444074	1.0278618	6.8195162	2.6310577
## 104	4.3731958	8.2580190	4.1079305	11.545966	3.9723159	1.3487423	7.4418694
## 105	0.3124328	9.2379967	9.6811917	11.488080	8.0967689	9.2304663	9.3693347
## 106	3.5775376	7.2709914	7.0438224	8.894930	4.9396873	6.0782618	6.9484794
## 107	5.3115794	0.0000000	9.2161068	10.432209	9.9324712	1.4901080	1.8207712
## 108	6.7402827	3.8999683	7.4520542	7.365853	6.8423101	3.8716465	4.1795190
## 109	5.2127327	3.3088414	2.1902672	8.780709	7.9659314	0.5315686	7.6575914
## 110	3.3666300	6.6020099	6.2701738	7.023202	2.7345254	5.6216680	5.3310889
## 111	7.0202255	5.7026215	7.8177467	4.853936	2.7464633	8.1593592	10.0429370
## 112	1.1696685	6.9624484	5.5618027	9.945603	4.3918914	6.0710182	8.0042396
## 113	9.3163039	7.4553881	4.0249845	10.705701	2.8940417	4.2243490	4.3994787
## 114	6.7746013	8.5457835	3.2202526	13.093984	3.9046479	3.5827607	8.7175623
## 115	7.1571670	3.5619493	2.0010095	10.939308	0.6786128	0.0000000	11.1396172
## 116	8.9799007	5.4187128	8.0903268	12.748449	9.4405872	7.9488554	3.0321361
## 117	3.9488905	4.6290885	0.9849174	5.711704	10.2527768	5.0366660	4.5408084
## 118	7.7664593	8.3028820	2.0436945	9.872351	1.5229597	0.7000845	5.8694791
## 119	5.0383045	3.9438088	8.9271691	8.005151	8.3217139	0.7529198	7.3153960
## 120	2.1571084	9.6496798	2.7773040	8.220677	2.5338374	0.8467942	5.1538904
## 121	2.6864333	8.2115170	1.7073039	12.725212	2.4675403	1.2383589	10.4864532
## 122	3.9661259	7.2756562	11.2403527	12.031787	3.9336104	9.5578116	5.7810160
## 123	3.9665874	4.5969232	7.7005334	7.937421	7.8773725	4.8320191	4.3415375
## 124	2.2243799	9.3090277	5.0899176	9.795992	3.2117131	0.0000000	7.5358430
## 125	4.0016221	6.2382022	5.3662628	7.702164	8.5949322	0.8487982	5.6397705
## 126	7.0371461	2.9539915	8.2331647	4.289798	5.0651931	0.8825257	2.5997225

## 127	9.5918858	7.2426035	6.2007064	6.396129	1.8030617	0.0000000	5.0133372
## 128	2.6936765	4.9242472	4.2582174	4.702935	6.1777703	3.6120104	5.0297223
## 129	4.8627093	8.9052573	1.6307316	12.020451	7.0607889	0.5051796	9.1085276
## 130	6.8382244	9.9305193	6.8945243	11.456176	0.0000000	0.8701871	6.6783227
## 131	5.1545387	1.2795307	1.0501186	9.441174	0.4403144	0.0000000	0.4403144
## 132	8.1971420	10.0485976	7.7549623	10.390627	5.5851579	4.6652620	8.0461603
## 133	10.2858065	9.1050345	4.8120207	10.266622	3.3816848	3.7193149	6.7573553
## 134	5.8691854	9.4612036	3.8910983	11.774945	9.4463516	2.7474089	9.2564873
## 135	6.0402788	9.9821300	8.3377615	11.596938	4.1300001	6.4715257	6.8382080
## 136	5.2872654	9.1732142	9.4591539	11.897799	4.3390661	1.6497074	6.2686758
## 137	3.5673386	6.6041974	5.9360278	7.422218	3.8384778	5.3911628	9.2265066
## 138	3.5427038	1.8445463	0.6561760	11.019896	1.4476321	5.5478724	8.9038002
## 139	10.3645540	7.8156977	3.6626157	7.349555	8.6608456	4.4353286	5.8003564
## 140	5.5600943	3.2320928	3.0970545	1.815125	0.8793921	0.0000000	4.5391712
## 141	3.3011047	5.9208006	3.1125333	13.214047	0.0000000	1.7720968	10.3223655
## 142	4.3095109	9.4238508	9.2661292	8.322110	3.5185729	2.3740935	7.3156006
## 143	3.7292482	0.7834986	1.4871261	13.472194	0.7834986	1.0579701	12.3099164
## 144	6.5237423	3.3235142	4.9205744	8.248978	8.4105175	1.8888114	3.3870316
## 145	6.1854424	1.5935450	0.8990209	9.675361	2.4885921	3.8339324	12.8889940
## 146	2.5118981	1.7449361	7.5159521	11.602320	7.0571589	4.9146937	5.1810031
## 147	6.4267361	3.0637963	8.0046160	6.721601	8.5464006	2.6213369	4.3320276
## 148	5.7975785	0.6782522	1.1378314	11.032898	5.4859903	7.6842710	13.2417559
## 149	0.4564908	4.7377733	5.4529446	8.494024	9.8093664	4.5210256	2.6347791
## 150	7.7617473	3.6977738	0.5465611	11.833685	1.2521128	1.2521128	3.6456325
## 151	4.5876350	5.8320115	2.7707022	11.946145	5.0403577	4.3927090	9.1277016
## 152	7.6095149	1.4117516	0.5010060	9.830045	4.6954204	9.5767702	7.6695845
## 153	2.2751859	5.1679038	6.5886727	5.910385	8.1751558	0.0000000	9.7783998
## 154	3.7138278	3.8153807	3.5268576	11.921050	3.4863668	2.4504063	13.3928572
## 155	6.7830703	2.1820248	2.0928163	11.647688	6.6680908	9.3522770	7.7584864
## 156	5.9833699	7.3869497	4.4211156	10.284623	9.5308546	4.3167974	5.0822214
##	rs_SYT1	rs_GPR98	rs_LOC100271831	rs_BCAS1	rs_LOC728606	rs_HORMAD1	
## 1	5.351964	8.8912199	0.0000000	8.9208518	5.1404637	1.9995671	

## 2	6.562830	7.8833178	0.0000000	9.5687551	1.8188915	0.0000000
## 3	5.939149	7.6036790	4.3342465	7.2206018	3.7481499	0.0000000
## 4	8.773173	8.1711348	5.2203454	12.9013233	9.9749098	0.0000000
## 5	6.831827	8.7968187	0.0000000	8.7942459	2.7955384	0.0000000
## 6	5.590937	8.3881245	7.3052674	6.8337819	4.9090818	8.5244238
## 7	4.198054	4.1361175	3.1225402	5.1737071	1.5500634	7.1355205
## 8	3.756863	4.4504921	0.0000000	2.7889989	1.6259250	8.4080932
## 9	1.622087	1.6220870	5.2422786	0.6035967	3.9095619	7.8199510
## 10	11.309693	8.9671995	0.0000000	9.5179148	2.0906163	0.0000000
## 11	3.277777	7.5209706	0.0000000	10.7040010	0.0000000	1.2253983
## 12	4.231970	3.1944338	2.0939320	9.2179928	0.4548076	1.0785415
## 13	3.594130	1.5089864	0.0000000	5.0375975	0.0000000	8.6628182
## 14	10.350895	7.5851038	5.5429792	6.6753417	1.8800977	0.0000000
## 15	8.052045	8.3382639	3.9252494	8.3076803	8.2478914	1.2804813
## 16	4.721411	7.1139224	1.3323929	9.4647169	8.3904437	0.9432837
## 17	5.123621	6.6982574	5.1262130	10.9921971	1.9732072	1.1726155
## 18	4.508682	8.2101882	0.0000000	11.6517221	2.3785394	0.4665488
## 19	6.302602	7.7882492	4.1783721	5.8584535	9.4702436	0.0000000
## 20	7.822218	7.9161888	2.7120454	7.8637520	2.4850146	0.0000000
## 21	5.283092	5.9807839	3.6025519	7.7849881	0.4891319	0.0000000
## 22	2.843562	3.8257449	4.5843673	0.4976379	0.4976379	0.0000000
## 23	4.088260	2.8321204	4.6216768	7.9608476	2.5131622	0.5566992
## 24	3.639012	3.3031670	2.5878450	2.3407901	0.4537546	9.2256205
## 25	3.073100	9.6001151	0.0000000	7.4626986	4.9684548	0.4031586
## 26	9.430552	7.8586176	0.0000000	10.9909035	3.7844935	0.3405053
## 27	7.607670	9.3011354	0.0000000	9.2140716	4.0376634	1.6563133
## 28	8.623398	4.2659094	3.8785096	7.2663499	1.8019864	1.6194130
## 29	5.422522	7.1316203	0.0000000	12.0503233	3.6727534	0.9291092
## 30	7.431586	9.6560592	0.0000000	8.3341562	7.4191133	0.4557546
## 31	4.868420	7.6182923	0.0000000	11.5035821	2.0630542	2.5280712
## 32	10.238426	1.9286546	0.0000000	8.7834864	5.8005583	6.5489236
## 33	7.005893	8.6032005	0.0000000	9.0349544	8.4596160	1.2731578

## 34	5.877580	7.8671978	0.0000000	9.3381451	4.6485000	1.4601135
## 35	6.184203	11.8011054	0.0000000	8.5533597	6.2619238	1.6759965
## 36	5.637054	6.1088192	2.9857190	5.3037296	4.0727232	7.0291414
## 37	8.899475	7.3166508	0.0000000	9.6661365	6.7458827	0.0000000
## 38	8.901169	9.3665561	0.0000000	11.7047195	0.0000000	1.0875986
## 39	4.343692	10.0020094	2.1786828	10.8745471	7.0606473	0.5247658
## 40	4.092250	6.7540377	0.0000000	4.9776188	0.7157177	4.1970004
## 41	4.676583	4.7834305	1.7424374	3.0935433	0.0000000	8.0574205
## 42	4.552881	9.6803356	4.6271340	10.4599532	1.3208312	0.0000000
## 43	1.877744	1.4767964	3.4860836	6.0752952	1.2249664	7.9593198
## 44	11.039974	10.4194803	0.0000000	8.1678441	4.7005507	0.0000000
## 45	9.464975	5.3921663	1.8717648	10.9090779	2.7774723	0.5733745
## 46	9.024422	7.9150273	3.6576743	6.3887716	4.5390719	0.7903550
## 47	10.900961	9.5933222	1.1533514	8.4899475	1.3285493	0.3810618
## 48	8.757765	9.5580349	0.8550329	8.1145799	2.3346255	3.8367422
## 49	7.053477	10.4824749	0.0000000	8.3406410	8.2463915	0.3614315
## 50	10.535168	2.2824398	1.4037585	9.7498235	5.4434575	0.0000000
## 51	7.073752	2.2637255	0.9041180	3.3931004	0.0000000	8.7376040
## 52	11.678176	8.1722280	0.0000000	11.4296363	8.4733413	0.6147570
## 53	12.166445	7.9470536	0.0000000	9.2894988	4.3476727	0.4093638
## 54	9.997708	6.3617982	0.0000000	10.2044384	0.7735744	0.0000000
## 55	7.277467	5.2692988	0.0000000	10.9574486	8.4953306	1.1326426
## 56	4.977857	0.8589358	1.6785227	5.8869744	0.0000000	8.3254053
## 57	7.118771	7.6177731	0.0000000	8.9347547	6.2504387	1.9596589
## 58	8.249614	9.6908684	0.0000000	7.5939505	7.8029118	0.0000000
## 59	3.536289	4.9283608	1.2246577	6.9991950	0.3723950	8.4787838
## 60	9.532944	9.2785717	4.0882858	10.1400225	0.6223682	0.3444877
## 61	12.624134	3.5043280	0.0000000	9.8015873	4.9172933	0.3832757
## 62	8.328455	11.8404620	0.0000000	9.8952188	1.3124328	0.3748447
## 63	4.879417	1.2351143	3.2438823	8.4647989	0.0000000	0.0000000
## 64	5.176626	2.6732398	0.0000000	9.5272109	3.3365976	0.0000000
## 65	6.083203	1.4056657	0.0000000	2.3571015	0.6320820	0.3503841

## 66	6.345210	10.6363361	0.0000000	7.0711448	1.7935214	0.3494785
## 67	6.895772	8.8422623	0.0000000	6.2551910	7.5245190	1.0005049
## 68	5.487303	8.5430995	5.1684094	9.0877169	5.2004926	0.9509909
## 69	9.083923	6.3346773	0.0000000	5.8022113	7.7797194	1.6031219
## 70	2.703256	10.5884709	0.0000000	10.3838269	6.0166055	0.7562547
## 71	10.830361	8.8315147	0.0000000	7.6655427	7.9047334	0.7326599
## 72	4.351996	7.7431655	5.5623310	10.4303515	2.1464271	1.3352546
## 73	3.794582	0.5994130	0.0000000	3.6242647	0.0000000	9.0885082
## 74	7.495574	9.8692300	0.0000000	11.7029309	6.6548837	0.6614760
## 75	5.535953	8.5748489	2.4739427	7.7372879	6.6261149	2.2658869
## 76	3.095570	7.8388635	4.0885487	4.7367564	3.6666657	0.8113066
## 77	4.579687	3.2713958	0.0000000	4.7531445	0.0000000	1.3377111
## 78	4.064331	4.7781613	0.0000000	8.7662118	0.0000000	8.0483321
## 79	5.346627	0.0000000	0.0000000	4.0412342	0.0000000	3.0385240
## 80	5.659873	4.2990908	3.4494029	4.0027025	1.3922625	7.6205549
## 81	6.587068	7.9591459	0.0000000	5.6092231	3.4913272	1.3008266
## 82	6.204446	8.2247687	4.9128606	5.2411080	2.8652260	0.5350576
## 83	13.282370	11.8800620	0.0000000	8.6050079	8.6138333	1.2186572
## 84	6.056046	8.6945874	0.0000000	9.6522273	7.8921087	1.0316775
## 85	4.225275	2.5799766	0.0000000	3.1285409	0.8717648	7.9430416
## 86	11.666413	8.9916103	0.0000000	12.0035510	2.9362893	0.0000000
## 87	5.333631	0.4119685	4.1528162	8.1741202	2.1059127	0.4119685
## 88	3.746238	8.0513841	3.6806732	8.4439501	0.0000000	1.3163196
## 89	8.904816	5.1275507	1.5010060	10.4217938	4.3549951	0.4998841
## 90	9.736195	10.1674293	0.0000000	11.0458295	8.1838105	0.0000000
## 91	8.213371	9.6095629	0.0000000	10.8313728	2.9657843	0.0000000
## 92	7.726732	8.8238547	0.0000000	11.8546550	2.5322421	0.6763577
## 93	9.269942	9.3066872	5.0525202	9.1468535	1.4298570	0.0000000
## 94	3.964694	9.2173987	3.7729941	7.8031599	6.6417469	0.8949923
## 95	6.974914	9.2670973	0.0000000	8.6043130	4.1793279	1.0734090
## 96	4.973914	9.8708090	0.0000000	11.8487619	1.6802343	0.9121900
## 97	5.145270	4.4151434	3.7381733	5.8232908	2.6049490	9.4496967

## 98	12.072750	8.5973692	1.4366949	9.9082682	2.9838418	0.4281424
## 99	9.274764	9.5335803	3.2247040	7.3209729	4.4988636	0.0000000
## 100	6.442605	6.3673326	7.1263638	10.7312818	6.9635967	0.0000000
## 101	9.721395	3.9111355	0.0000000	10.5568237	0.3335382	0.3335382
## 102	10.369597	8.5196363	5.2612299	9.1903185	3.9068906	0.0000000
## 103	2.569272	10.3543066	1.5924451	9.7065746	3.9584251	0.3330802
## 104	11.235032	11.3860957	0.0000000	8.4632334	6.5695002	1.3487423
## 105	6.318852	0.7869309	0.0000000	12.2130882	7.6210636	0.3124328
## 106	9.422177	9.7315376	0.0000000	9.5138401	3.2385117	0.3923174
## 107	3.476485	7.7274951	6.0048631	8.4247445	8.2194062	0.4455148
## 108	7.813856	8.2695040	3.8201177	10.0939609	3.8716465	0.3675947
## 109	5.195296	6.0157875	5.3536268	7.7107135	3.2424806	1.8769196
## 110	10.318296	10.8851012	0.0000000	11.6850772	0.9985566	5.1804184
## 111	3.479269	9.3052920	0.0000000	9.0417008	3.5197306	0.0000000
## 112	7.229973	11.4443917	0.0000000	8.6394941	3.0870724	0.0000000
## 113	8.048605	8.0660262	0.0000000	10.1691508	4.1609041	1.1416290
## 114	11.902484	8.0199748	0.0000000	10.8919113	4.9518722	0.4144603
## 115	5.010292	3.8887822	3.6074368	9.3110476	0.6786128	1.4863025
## 116	9.429704	10.1725124	3.0611886	7.1127220	1.7157177	0.0000000
## 117	7.752801	8.8766182	0.0000000	12.8173127	3.3301998	0.0000000
## 118	9.906554	7.5138176	0.9859375	10.3361636	1.5229597	1.8066953
## 119	11.200218	5.6921900	3.0279856	7.4373226	8.4670716	2.2535355
## 120	2.068327	0.3405053	3.7217226	12.9192375	8.8789389	0.0000000
## 121	10.117778	7.5933239	5.0907095	10.1006153	2.9628451	0.5391340
## 122	9.633782	10.4245409	3.0336873	7.2058949	7.2949837	0.0000000
## 123	8.355711	9.4575065	0.0000000	10.3321748	5.8428104	0.0000000
## 124	4.804054	11.0569605	0.0000000	8.7680374	6.4071658	4.8810038
## 125	12.129146	8.9749956	0.0000000	10.8895612	1.7667648	0.0000000
## 126	10.162652	7.4598422	4.0173429	11.7480143	3.3617403	0.0000000
## 127	11.241719	8.3770639	0.0000000	10.0310209	1.6479591	0.0000000
## 128	7.745520	7.9970665	3.5505929	11.3702143	1.2865263	0.6559929
## 129	2.376652	8.9897938	4.1641748	11.3528875	1.6307316	0.0000000

## 130	5.514331	5.6865538	4.9527995	10.0468712	1.6181447	0.0000000
## 131	1.651362	6.3196215	6.8094132	6.4431093	0.0000000	0.0000000
## 132	4.665262	8.5008562	4.9743779	7.8368917	5.7805831	0.0000000
## 133	6.762581	9.4387339	0.0000000	10.6414990	0.4777809	1.7466137
## 134	7.726959	6.4778975	0.0000000	11.3788662	8.0634285	0.9278206
## 135	8.578293	11.0112117	0.0000000	8.4890459	8.8959987	0.0000000
## 136	5.636300	8.9394411	5.2390848	8.5609316	5.1199828	0.0000000
## 137	9.678208	9.4342660	0.0000000	10.1360936	5.9686576	0.4330663
## 138	1.723995	1.4476321	0.0000000	3.1798613	1.1054769	9.7354296
## 139	7.388701	9.1198866	0.0000000	8.2015515	8.2276949	1.3192133
## 140	9.990037	7.7147126	4.6631567	10.9457749	0.5056877	0.5056877
## 141	6.787913	5.9772066	4.1240965	7.4337957	0.8521587	0.0000000
## 142	4.985669	10.1790489	0.6135317	5.6881328	1.2598449	4.1767376
## 143	7.522393	8.6356024	6.3363120	1.6617040	4.1659682	9.1115515
## 144	2.869417	8.4958191	0.0000000	5.1575491	8.4940171	0.0000000
## 145	5.922945	6.0725668	3.7046617	1.8457510	0.3654686	8.7757808
## 146	5.694869	7.1698398	4.5015028	10.0604151	2.6262055	0.9565771
## 147	9.457261	6.7661910	0.0000000	10.9100835	7.3120597	0.4521737
## 148	6.358122	6.4988221	2.9647128	1.7659590	6.9547686	7.9937966
## 149	9.125545	8.8580211	0.0000000	10.1304939	7.8094022	0.4564908
## 150	1.723821	5.5564815	3.7890615	3.3522359	0.0000000	6.9593691
## 151	5.557318	9.4135285	0.0000000	9.9489062	5.7255639	1.1802752
## 152	2.365021	4.3584385	8.1724650	9.1436875	0.8720801	2.8534767
## 153	8.510591	8.2715438	0.0000000	9.5769491	1.3426685	0.4689482
## 154	5.053846	4.6208503	0.0000000	3.7138278	1.8285503	7.2315313
## 155	8.768718	10.6591059	0.0000000	8.4982241	1.0625362	0.3472121
## 156	5.387045	6.9833277	0.0000000	7.2234544	1.8035164	0.5831339

##	rs_SLPI	rs_HEPACAM2	rs_FREM2	rs_FSIP1	rs_PIK3C2G	rs_CYP4B1
## 1	7.7437910	5.0313026	2.2796496	8.0492855	6.4015400	7.9897436
## 2	5.9123864	4.7550478	4.3320706	4.9697860	6.1800723	11.7200062
## 3	8.3624730	5.8039942	7.8659293	4.2968758	4.1260560	8.1924945
## 4	8.2874691	8.6438252	8.4071704	6.8726761	4.8896439	4.6087442

## 5	5.3857140	6.0351840	8.6636172	6.0438738	4.1080309	8.5074617
## 6	13.8243291	1.3538878	6.3283482	1.6204457	8.5919142	2.2112303
## 7	13.6085760	1.7285301	1.8873693	1.7285301	5.1890378	3.3583541
## 8	9.1807225	0.0000000	9.8731351	2.2705588	7.8267264	1.2575538
## 9	10.1220402	1.0279325	8.3680411	2.0416986	3.6357660	3.9585922
## 10	3.2563616	7.3319389	9.1654919	11.4366226	1.7842946	10.9493671
## 11	7.4728752	3.9435557	8.4810183	6.7194942	3.5898234	9.0821054
## 12	5.6201113	0.0000000	5.7147840	5.7746158	6.2594909	10.6643959
## 13	8.3666033	0.5474498	3.3547906	2.8994270	1.7257848	0.5474498
## 14	8.0755690	5.4112567	8.6883489	9.2532549	6.5570960	8.1179532
## 15	8.0789834	4.2376478	2.4026130	9.5615220	2.6689133	8.3525281
## 16	8.8226556	7.1796882	2.8071694	8.9982604	0.0000000	12.1395016
## 17	6.8679298	7.6854461	5.3912831	7.2863295	3.9664397	9.1882375
## 18	5.6837217	5.6512067	10.4226070	11.3085204	2.4807563	8.3917188
## 19	8.2954223	9.4180240	3.8258161	10.0791933	10.7459257	5.0853694
## 20	7.4619910	5.9458160	8.3451147	6.0370417	2.6260185	6.9905873
## 21	10.6325591	5.7728807	1.7746711	5.9715344	6.1866471	7.6201619
## 22	10.6500181	0.0000000	4.8376759	1.9571717	5.2347964	3.9072080
## 23	6.0542038	4.5608066	1.9355352	2.1030276	10.1518647	10.2370735
## 24	10.9498878	0.4537546	8.0249812	2.3407901	4.2563540	3.8008067
## 25	7.4810406	9.1102706	3.1273361	9.3607519	5.2630832	6.4119821
## 26	7.7396551	4.0393402	5.6814689	10.4233653	2.6610427	11.5573927
## 27	9.2053321	5.2993472	10.1900035	9.7470540	7.4859420	6.3959848
## 28	6.0094300	8.0545799	6.0640788	2.5787214	6.3690826	7.3748143
## 29	4.5044742	4.7011387	4.0850762	5.8111704	2.2067370	10.1369475
## 30	10.6471659	7.7076566	6.3375987	7.0089653	8.7509813	8.1800648
## 31	7.3671797	4.5391960	9.1806797	10.3755672	1.3725621	11.4344313
## 32	5.6773786	3.7312593	0.7670615	10.1636055	2.3814218	10.6336485
## 33	9.9456226	4.8033149	2.8118820	5.3954399	7.1674774	8.1042129
## 34	8.0664945	6.3263738	7.4460908	8.2013643	4.9639457	10.1372716
## 35	11.4444711	6.3679878	1.8324040	8.7253547	6.1474410	4.4974846
## 36	11.2064651	2.9716263	6.4139511	3.7447101	6.0998506	5.2880189

## 37	8.2924454	4.9403077	4.6986463	6.8410435	6.2213300	9.1231069
## 38	7.1661500	1.0875986	4.8644784	6.3126144	1.2669364	8.9561333
## 39	7.1569305	5.4735921	2.7448930	7.2923032	5.3077199	4.2799541
## 40	11.6072462	0.7157177	5.7968106	3.2735905	2.0742657	4.3180782
## 41	14.5961636	1.2082675	1.7196216	1.3995539	7.8186857	2.3021143
## 42	9.0069989	4.2462409	1.3208312	4.0963546	3.2651818	7.4244922
## 43	15.3369087	0.9196833	8.2883410	1.8777442	5.7079278	8.1749611
## 44	12.3412145	5.4221758	5.3355011	8.1248797	5.3129918	8.3667078
## 45	7.6726085	7.4809727	4.6668759	8.3117025	3.3607576	8.8508510
## 46	7.2234737	10.4350691	4.0603414	8.4453799	6.6149792	5.8735032
## 47	3.2424958	3.1472578	10.3787404	4.4894851	4.0103233	10.2152013
## 48	9.2661259	2.3346255	9.9484738	4.3472688	7.4972762	7.3234430
## 49	6.5253830	3.4919300	10.6936457	9.1936909	1.2772111	8.9874033
## 50	7.2144736	1.5521311	4.0688685	7.7407900	4.2010614	8.3614381
## 51	12.6162195	0.0000000	7.4945828	1.3697736	4.5348087	2.1652366
## 52	11.4351837	7.4203611	5.6858897	8.6353644	2.1550368	7.1877757
## 53	10.3703861	4.7151576	4.9929950	8.3538922	7.2095089	7.2597988
## 54	4.6096722	2.3942946	6.9677277	6.8660932	3.1952846	8.1681802
## 55	10.2838718	6.2161696	1.8810381	8.3486622	4.8141300	9.4915389
## 56	11.6616944	0.4924172	10.3618234	2.4529117	9.5086281	0.0000000
## 57	10.2116214	6.8244802	5.2281491	6.7489710	8.5093035	4.9865566
## 58	9.0694167	5.6806704	6.6619818	7.2345358	8.6785829	9.9719507
## 59	9.4331746	0.3723950	8.3096614	0.6681191	0.0000000	1.6142387
## 60	5.2663743	0.3444877	8.6228952	6.1467713	2.6767413	9.6508952
## 61	5.6438418	8.0257259	3.3406050	6.4700683	5.2757036	8.4553116
## 62	5.8864502	6.0439634	3.1717352	10.6387559	5.5359658	6.3628135
## 63	5.1230909	8.5433428	7.0974212	10.0295746	5.3217586	6.7580526
## 64	6.9186665	1.8000819	3.3365976	8.8488561	4.4927697	8.8566026
## 65	9.7028353	0.0000000	10.7218310	1.5480913	3.7409599	2.7597524
## 66	7.7206540	6.5864810	8.4709427	5.9946069	3.7950500	13.0382972
## 67	10.2213396	6.6874527	6.4159885	7.2551967	9.3672828	7.0380443
## 68	6.1930601	3.8139556	9.5774460	9.4581074	6.4352802	6.9526283

## 69	9.7773952	6.2684157	3.3938143	8.0769315	7.7930375	7.3678576
## 70	2.2600257	1.6169693	5.7928085	10.9767163	1.2498700	6.6471576
## 71	9.9911848	2.3132459	7.8547487	9.0898228	3.1242454	5.4954138
## 72	6.9408515	4.6651483	2.1464271	10.4307495	2.9735194	11.0041728
## 73	6.8658223	1.0215508	6.2854448	3.5627187	0.0000000	4.9240381
## 74	4.9110540	2.4230403	2.1668440	10.2980612	0.3683772	8.2063170
## 75	11.2811297	6.9301743	5.1279758	6.8648745	8.6092667	8.0066935
## 76	6.5463018	2.4669403	8.2624078	3.2176495	3.4840866	7.0562356
## 77	8.0176247	3.6089984	4.4512639	2.1903620	3.0229537	10.6835074
## 78	8.1521185	0.7392433	4.2785052	2.6678467	4.3512750	2.1199205
## 79	8.8252046	0.5997939	4.0412342	2.8451086	1.3484591	11.0783778
## 80	12.5932817	2.7413591	8.1850617	1.7812758	5.5390378	3.6292400
## 81	9.0939993	4.9881211	5.7854642	5.4572988	7.3571825	8.7345721
## 82	11.3095022	6.4759085	6.1778480	4.4952922	9.1704592	8.2355552
## 83	7.6502892	1.5151069	6.2043149	7.8377383	5.7431298	7.9519567
## 84	5.2898382	1.0316775	4.2687937	8.9679147	4.3633253	6.6840851
## 85	4.2464537	0.0000000	5.1416576	3.0342685	7.7673509	0.8717648
## 86	1.3819478	9.7172525	3.2464233	6.7782809	1.6159812	12.2492912
## 87	6.5060116	2.7263953	11.1947735	3.4911476	0.4119685	7.7380362
## 88	6.9507297	0.0000000	0.0000000	8.3460328	0.0000000	9.9772152
## 89	8.9010720	4.8862770	3.0072134	7.4642394	1.1650436	8.0509886
## 90	6.2618937	7.3019369	7.2258562	8.8722381	0.3257318	6.6408306
## 91	6.3581254	2.4066999	6.5414482	8.8192185	2.7520635	4.7641710
## 92	6.3739579	6.3317321	3.2738441	7.8440334	0.0000000	5.0573073
## 93	5.9774540	0.4209405	5.7869701	9.3522748	2.4342679	6.0005432
## 94	8.6911185	3.8546939	1.8394759	8.7727754	4.4912118	6.5782730
## 95	6.5510068	4.0409888	8.0807738	9.8282415	5.9988499	6.3459410
## 96	3.6899812	0.0000000	6.6278169	9.4869744	1.8662354	11.5138074
## 97	10.7786372	1.9965334	4.7070609	3.7290959	2.1980226	0.6763577
## 98	7.9220444	4.5940289	3.0455129	10.3147339	1.6197886	7.4973098
## 99	0.0000000	0.0000000	4.1572701	9.1807245	3.3071516	7.0470857
## 100	8.2368886	1.3067872	0.5765705	9.1027505	0.9873936	11.0126129

## 101	7.5978127	8.3352858	1.8483175	5.2551683	6.1383394	7.4295440
## 102	2.6322682	2.4329594	8.3246306	5.5422580	1.7655347	9.0416592
## 103	10.5859990	9.3628262	0.0000000	9.5026640	0.0000000	5.9611302
## 104	12.1614791	6.9221336	0.4716557	8.9201107	4.3731958	7.9230862
## 105	8.5209730	5.7601650	6.2333378	7.5125303	0.3124328	10.5282184
## 106	7.7508188	7.1073290	9.8603266	10.6141323	3.4595365	5.7499793
## 107	7.7101507	3.6107237	0.4455148	10.1331224	0.0000000	9.2046516
## 108	7.1733693	5.2087162	7.1291975	8.3396705	3.0451459	9.4796770
## 109	7.5031977	1.2243490	2.8553519	7.2138838	5.2299609	4.1278726
## 110	6.6361852	0.7357821	0.9985566	9.0360420	4.1127585	7.5337043
## 111	6.8361943	9.0294904	0.9648052	4.7725455	7.5215306	7.2450583
## 112	7.6142615	6.1910256	7.1686420	11.7394003	5.9104497	5.5744679
## 113	7.1346881	2.2075181	4.8452040	7.2686271	2.3279460	4.5054400
## 114	6.9672436	7.8283872	5.8389417	3.9363553	4.3196468	8.0779800
## 115	11.1692652	4.0543797	2.0010095	1.4863025	1.4863025	6.2262947
## 116	3.8129910	2.0921059	8.5100797	9.0667566	0.4075159	8.6110731
## 117	4.3973512	9.8442938	10.7561551	8.0398989	2.6184266	9.1742871
## 118	13.6057497	7.7991935	1.8066953	5.5029447	5.7902768	1.8066953
## 119	10.3144519	3.9438088	2.7706388	8.2126486	5.0532678	9.3124784
## 120	2.4659484	0.3405053	0.3405053	7.8762916	0.0000000	7.0380762
## 121	5.1097659	4.9284509	8.4967240	8.4656264	6.9779278	7.4171259
## 122	7.0999926	2.7165081	3.6828317	8.1751563	2.6379580	11.2003388
## 123	5.6614019	4.9861879	10.4483953	8.6908441	2.4013574	5.6916067
## 124	7.0775421	4.6006801	1.3394225	6.4482022	5.0370966	3.6589541
## 125	8.3715423	2.2644163	1.0008654	8.1494398	3.4075567	5.5126567
## 126	4.0537109	7.9154623	0.0000000	9.1279250	1.9828385	7.1182247
## 127	6.2487284	2.4914683	2.8878567	10.4630231	1.6479591	7.2694568
## 128	6.0456920	6.9090482	1.5922059	10.7653844	2.4109109	8.7757077
## 129	0.5051796	6.0894346	0.8786861	5.3665251	2.4886692	4.6136790
## 130	12.0992260	0.0000000	1.4091465	2.7645372	7.9929463	11.0862942
## 131	4.4631254	3.4108838	0.0000000	3.3106600	0.0000000	3.6346397
## 132	9.2950537	2.0167459	6.2941373	7.8203181	6.1688225	10.3162397

##	133	8.5100323	4.4725787	6.1790452	4.7711197	3.0806236	6.1554011
##	134	7.2761998	4.4826289	5.5917123	8.2331149	5.3891675	8.6302577
##	135	9.0064627	5.4827676	3.5856596	8.4517415	2.8914386	6.0602441
##	136	8.5787863	2.8043634	6.5312582	8.9827558	3.6488566	5.9771036
##	137	6.7661061	3.5673386	3.2859200	8.5956465	4.9098499	3.0622772
##	138	11.9960459	3.4315962	7.4433514	2.2458607	9.4626622	5.7696660
##	139	6.7597484	1.7623488	2.6050439	9.6019097	0.6763577	6.7637249
##	140	6.0459540	0.0000000	1.6318493	8.9491935	1.8151245	5.5078073
##	141	14.9875530	0.8521587	7.2360955	2.3293533	0.8521587	4.4550970
##	142	12.8528236	1.0328061	2.3740935	7.5829090	2.1656869	8.1521596
##	143	7.8455810	5.1692556	9.6539492	1.2884176	8.9013002	3.3242778
##	144	9.5081727	0.0000000	11.9143766	1.8888114	0.5366498	10.6965169
##	145	9.7278014	0.0000000	10.5836312	2.4125106	3.0368022	0.8990209
##	146	6.6742474	6.3307735	1.7449361	8.4356673	1.5268200	11.6959055
##	147	5.8954432	6.3892140	2.5323419	10.3207978	0.4521737	8.7500618
##	148	5.3859935	0.6782522	3.4065095	3.1380117	1.4857875	0.0000000
##	149	7.5956364	3.0128726	5.1392280	7.6527869	0.0000000	12.3338895
##	150	16.8545481	0.5465611	4.3136304	1.5071603	6.1686240	4.2451990
##	151	8.1934194	6.2031796	6.8289654	7.6695172	6.5181999	8.6109665
##	152	9.2028181	0.0000000	8.5381462	3.7500490	1.1670367	6.3046990
##	153	9.6832111	0.0000000	0.4689482	5.9011420	8.2480438	7.8327654
##	154	9.5395886	1.9526318	4.6394290	3.6419275	7.7906072	3.0594418
##	155	5.7567138	4.2241561	9.5459222	4.4384991	1.0625362	3.8686176
##	156	7.8369738	0.0000000	7.4864835	8.8634343	0.5831339	5.7760592
##		rs_TUBA3D	rs_KRT13	rs_PPP4R4	rs_EPYC	rs_SLC28A3	rs_AGTR1 rs_IGDCC3
##	1	9.9812066	0.8928184	1.6516832	1.4402081	1.6516832	5.601483 4.3418577
##	2	7.8293593	2.5983890	1.2895984	10.1870021	4.5026616	7.068943 2.9070252
##	3	5.7363099	4.9539822	1.9732072	3.7481499	2.2197106	7.418662 8.4750200
##	4	13.1380180	0.4889263	1.7742494	0.8535167	0.4889263	5.740005 1.1442422
##	5	2.5246655	5.2866927	7.5362674	7.2208861	2.1908677	6.128009 6.7385584
##	6	0.6028369	1.6204457	2.9528367	0.6028369	7.4057244	2.502840 1.3538878
##	7	2.2799170	0.8248086	0.8248086	7.0749100	5.7504618	4.660849 1.1090262

## 8	1.6259250	0.0000000	6.3518156	4.4038608	3.5582431	2.370945	0.4304994
## 9	0.0000000	1.6220870	2.0416986	3.9585922	3.0485326	2.747387	2.8549133
## 10	4.5738108	4.3897939	4.8431899	5.1046721	1.6026944	12.013970	9.4615060
## 11	4.3973649	4.9593250	4.8630960	5.0495349	2.8119025	5.696358	6.4863668
## 12	2.6297063	0.4548076	2.2346239	2.5406225	2.9395275	5.358597	6.5607532
## 13	1.7257848	0.9433588	4.2123981	8.8095273	4.4132488	4.444163	0.0000000
## 14	5.3414236	6.8531386	7.1126949	7.5597029	5.1907255	6.918544	5.2169592
## 15	5.8709984	1.0509544	7.5617920	2.9613826	8.7437940	13.324423	1.6525094
## 16	4.7214109	0.5474498	7.5179024	8.3583453	3.2182232	11.743480	3.8918080
## 17	2.7766936	12.2445388	0.5039593	2.7766936	0.5039593	4.919540	7.9350418
## 18	2.2685242	7.6042589	4.6903389	4.5795121	6.4912967	5.715520	7.5227322
## 19	3.9909004	0.3634515	7.8540455	1.9505804	9.4149995	5.576038	0.8949923
## 20	4.2340951	4.2987170	0.0000000	4.4391311	3.7396429	4.298717	6.0496155
## 21	3.7985586	0.0000000	0.0000000	9.8089227	7.9866874	4.830068	0.0000000
## 22	1.1606621	0.4976379	2.2347466	1.4045762	4.3474885	2.667710	0.8668684
## 23	0.9573203	0.0000000	0.0000000	3.3809095	1.9355352	8.757501	0.5566992
## 24	2.1132337	0.7984238	1.0764907	3.8008067	4.1701173	4.439530	0.7984238
## 25	7.9160514	0.9762170	0.9762170	1.1951586	5.2989698	3.728149	1.9641398
## 26	2.3201092	1.5178804	6.2990999	0.6158871	2.6610427	7.539482	9.4899850
## 27	7.7823660	2.4071352	6.7095457	3.7606255	6.0268819	6.800557	3.2093910
## 28	1.1657512	0.0000000	0.0000000	1.4103411	2.8515192	4.985209	6.4258302
## 29	5.3497580	8.8641676	5.7639480	2.6142622	1.6366826	10.879491	9.0642203
## 30	5.5792314	1.0803166	8.7768722	0.8015726	5.5336786	7.409688	5.9867045
## 31	6.9140490	12.5465170	5.7823325	7.3320348	2.7142675	4.999635	7.6065755
## 32	2.7255230	4.4856522	6.6531905	7.2500909	3.1242123	8.161198	5.0258660
## 33	4.5432917	0.7727302	7.2736763	5.3206868	9.0866275	8.332213	5.7678984
## 34	8.3088491	0.0000000	5.2056232	3.9079001	5.0617460	6.496926	7.5808638
## 35	7.3365449	0.4498519	1.3007680	7.1484339	5.9651124	4.126428	4.7923660
## 36	1.8345494	6.4567339	3.2562861	5.4799969	6.8319925	4.848222	2.3998820
## 37	6.0998212	0.5165195	5.3738187	5.3738187	5.9571694	13.812147	4.1873798
## 38	2.9011276	1.9309644	6.5692055	4.0419438	2.3839393	3.322202	0.3576083
## 39	3.0035303	3.0035303	0.5247658	9.1392612	1.4620000	4.625931	0.9088129

## 40	1.6995072	5.6660521	1.3816710	6.4279346	6.6425312	5.821598	0.7157177
## 41	0.7270927	0.7270927	0.9876119	5.2977343	5.5506144	4.478784	0.4088205
## 42	0.0000000	0.0000000	0.0000000	7.7597764	3.1481695	5.498101	1.0865120
## 43	1.2249664	2.5617172	0.0000000	1.2249664	0.5318680	1.877744	1.4767964
## 44	8.5808419	0.9542708	4.2337270	1.1699891	2.3399355	5.219277	1.8074374
## 45	6.6236416	0.0000000	4.2148631	4.5812307	1.9739051	8.793294	4.3243570
## 46	9.3431655	3.2859200	2.7730891	3.6635040	2.4267478	4.371238	0.7903550
## 47	2.3015584	2.0082717	0.6822137	6.5328795	2.3874177	6.588320	6.5186799
## 48	1.2894804	5.4126969	3.8939252	3.3154213	6.4202011	6.682049	5.0217906
## 49	8.2149388	0.8907969	8.5600412	4.7653173	5.9460103	11.601931	4.1766659
## 50	4.2507267	6.5948456	6.1144191	7.8535734	5.3553969	9.306647	3.7952994
## 51	1.8216694	1.5366000	3.9611973	3.5574223	6.4975102	3.901272	3.5180693
## 52	7.8321704	0.0000000	6.7908202	3.0309010	9.8800210	12.557106	3.4369613
## 53	1.2095158	2.8549133	0.0000000	5.3815983	3.6795364	4.785509	0.7279640
## 54	6.2719280	5.4453327	2.8847542	8.0706534	5.9042770	6.922032	7.5812759
## 55	8.7974913	0.3765127	8.0245402	3.5154223	7.3425183	5.200779	3.4381598
## 56	0.8589358	4.7568845	5.9735860	1.3935809	5.4635080	2.089057	0.0000000
## 57	3.8803035	5.5055512	1.6632535	2.0877683	6.5575495	7.524622	4.3579390
## 58	5.8821613	1.1898562	1.9571717	3.2703794	6.3298878	7.702211	4.9293460
## 59	2.1807844	1.1230040	9.7248702	6.6043798	4.1286151	3.833133	0.0000000
## 60	3.2266472	0.3444877	8.7602456	0.8552722	0.0000000	3.685604	3.3840083
## 61	2.8251547	0.0000000	1.1488690	0.3832757	3.2966042	5.745549	6.0136409
## 62	2.0921736	0.0000000	0.6721085	4.1388145	2.8541952	5.046364	6.5296320
## 63	6.8455804	3.9656181	1.0588014	4.5023370	2.7985897	11.484587	7.8680076
## 64	5.6266465	0.4994760	2.4727737	5.6741810	5.0198753	6.237879	5.7647893
## 65	0.6320820	2.1933302	2.1039004	6.1517432	8.6921541	4.716464	0.0000000
## 66	5.9182049	1.0678452	0.6304987	4.3927914	1.4029404	13.638057	4.7857807
## 67	1.7376435	1.2229282	8.9590294	1.2229282	5.5034410	7.659169	5.1438913
## 68	4.1785394	3.3248826	8.2536504	3.7149049	5.7926992	5.317644	5.8560495
## 69	6.4437840	1.6031219	7.9689380	0.2944296	6.0735975	6.905518	4.6176923
## 70	3.7069836	0.4270698	2.0359406	6.4565663	1.0240359	4.836106	3.5028907
## 71	2.5489791	1.0723116	3.0872761	7.9336529	11.3977692	4.470758	1.0723116

## 72	2.3754287	0.0000000	0.4655044	2.0166746	1.5380415	7.186924	8.6940998
## 73	1.3477790	0.0000000	3.0375404	8.8199874	4.8357220	6.377696	0.3305584
## 74	2.0702176	6.8602577	0.6614760	1.8551127	0.6614760	9.825038	5.6399730
## 75	7.0386579	9.3112617	7.8002839	0.3978030	6.4695441	7.860644	5.8377036
## 76	10.8135089	0.8113066	4.4433878	0.8113066	2.2551683	2.735717	0.0000000
## 77	1.3377111	9.8740172	2.6068212	0.0000000	2.6068212	10.237463	0.0000000
## 78	2.3265661	0.7392433	3.1750615	8.5641876	4.0929093	4.896359	1.4186757
## 79	0.5997939	10.0389614	0.0000000	0.0000000	1.0221192	10.168672	1.0221192
## 80	1.7812758	3.9656642	0.0000000	5.5515868	7.3130435	3.426157	1.1496496
## 81	1.5614972	0.0000000	5.7466621	0.0000000	6.3573954	9.395157	4.5511038
## 82	1.8852620	0.0000000	3.4434475	0.5350576	7.5216562	9.107260	3.7141246
## 83	2.7169251	0.3397075	3.9878575	3.9635204	4.3109145	5.654670	5.5845717
## 84	3.0089171	1.4996291	2.8084262	7.3751533	6.6127476	6.290657	2.4432353
## 85	1.8030617	1.0748479	1.2528395	5.8576029	4.6635154	3.778713	0.0000000
## 86	2.0746767	2.1511769	0.5448810	0.0000000	0.0000000	13.796113	9.0811239
## 87	4.7429009	15.5319317	8.6670611	7.2100264	1.9906645	5.582755	6.5164659
## 88	6.2195964	0.0000000	2.1626612	7.6524772	0.0000000	3.746238	0.5818815
## 89	3.1486576	2.9309076	7.8839934	2.1086917	0.4998841	5.127551	5.3489299
## 90	5.4942780	0.8154935	3.3024360	3.3390091	4.8763008	13.708802	0.0000000
## 91	5.3504690	0.0000000	2.8268840	7.0152634	1.2834477	4.705901	3.3676926
## 92	5.8232908	4.3319058	0.0000000	6.4984727	7.5788738	7.926147	7.2019484
## 93	6.0456439	2.6046881	7.2586970	1.4298570	0.7464848	3.243517	7.8521986
## 94	6.9731727	0.0000000	3.8546939	2.8686275	3.3461201	7.114115	4.2299724
## 95	4.7224933	2.1982427	3.2568295	1.4095810	1.4095810	5.069479	1.6819889
## 96	2.5485846	0.0000000	1.6802343	4.9739143	2.8426772	3.959019	4.1502916
## 97	0.9237957	0.9237957	3.3177816	0.6763577	6.6903151	8.048520	0.0000000
## 98	6.9900813	5.6557125	0.0000000	5.7513566	2.0391033	9.409372	7.9545622
## 99	2.9399036	0.3981314	5.9018516	4.6342506	5.9838259	2.678613	7.0436146
## 100	10.1902652	1.5681294	8.3389226	0.5765705	0.5765705	12.266174	4.3335096
## 101	5.0439394	0.0000000	1.8483175	5.4819802	3.4091058	2.691891	8.3594781
## 102	6.2133473	1.5849625	1.3785116	4.5969351	0.0000000	5.177918	6.7032115
## 103	2.0415584	0.0000000	6.5139581	2.4371212	1.6219464	12.463262	2.5046967

## 104	4.0417161	0.8265993	1.3487423	5.9202266	9.1178457	4.075199	2.4958998
## 105	5.6393885	0.3124328	0.0000000	5.7665872	1.1433934	10.354187	7.5760678
## 106	4.4758437	8.5231844	5.3355011	5.0526767	4.6831013	9.012213	7.6055914
## 107	10.0675074	0.0000000	7.1248936	6.4507741	1.6648924	4.636897	3.1040179
## 108	8.8264090	3.2349458	7.3168074	6.4650162	1.2933116	7.546889	5.6111163
## 109	0.0000000	1.4760706	5.8249078	5.4369946	5.3608418	6.735789	1.8769196
## 110	1.7349589	1.2207633	0.0000000	9.1762021	1.4132149	8.682457	4.7872966
## 111	4.6683972	0.3975839	0.3975839	5.8125752	2.9377963	8.494942	2.1666512
## 112	2.1151331	6.1063358	1.1696685	2.1151331	3.3453680	11.633112	8.5997730
## 113	2.6385836	0.0000000	0.0000000	5.9094707	5.5119771	5.051690	4.1929753
## 114	5.0565619	0.4144603	0.4144603	3.4128628	5.5107183	9.676494	4.3434931
## 115	1.1382247	0.0000000	0.0000000	5.1631968	1.4863025	4.983158	0.0000000
## 116	3.4317700	1.5647196	5.4187128	7.1396854	3.5570669	5.565128	2.6373552
## 117	3.4318770	0.0000000	0.3159140	3.1024398	2.2240403	5.777567	8.7803039
## 118	2.4255399	0.0000000	0.7000845	7.2729003	3.4586182	3.881802	1.5229597
## 119	7.1477646	0.0000000	3.9113273	1.7647283	3.8781073	7.744393	0.0000000
## 120	0.0000000	0.0000000	0.3405053	6.8344357	0.6156988	9.844787	0.3405053
## 121	0.5391340	1.8947596	0.5391340	2.0606354	2.9628451	5.519080	8.1437939
## 122	7.0889620	5.9851839	4.6656884	5.8348300	3.7214383	10.050578	4.6656884
## 123	3.0247452	2.5842169	2.8212204	7.2678972	0.7771988	8.466124	4.4864055
## 124	2.4832096	0.3852654	0.9398284	5.2376746	1.9087361	3.587281	1.1534162
## 125	1.2640560	0.0000000	0.8487982	6.9086088	7.9146142	7.793538	3.0719171
## 126	6.0155355	0.5077185	6.5053352	0.0000000	0.8825257	9.895723	8.5217995
## 127	3.7492983	0.0000000	2.6632991	8.1025049	0.4390380	9.310896	3.5000244
## 128	3.6455749	3.6455749	3.5776343	9.1294118	2.3306158	11.111237	4.0976866
## 129	0.5051796	0.0000000	2.4886692	6.9180129	2.1225402	4.081902	1.4207788
## 130	2.6738730	0.0000000	2.1082233	8.2655541	0.0000000	3.700950	0.0000000
## 131	1.4773665	0.4403144	1.2795307	3.7152564	1.0501186	1.477366	0.0000000
## 132	7.0444903	1.2052048	4.2361175	0.0000000	4.5358974	5.404232	8.6189581
## 133	1.1229377	4.2224800	1.3620490	9.1111931	3.2686739	6.962027	3.0120501
## 134	2.8106282	0.0000000	2.5392333	6.2287437	7.6938075	5.103854	3.4889134
## 135	6.3251831	0.0000000	6.4615498	7.8943970	5.4120193	8.466779	4.6700132

## 136	4.8687460	0.5134907	8.4681858	4.2117053	2.3992531	11.265044	3.9172981
## 137	5.5719377	0.4330663	3.4795022	2.0535632	2.4729556	8.109622	2.7229468
## 138	0.6561760	1.4476321	0.0000000	0.3650206	3.8323837	1.723995	1.7239953
## 139	6.8258950	0.6763577	2.6742799	3.8833276	4.2885136	2.605044	6.2030621
## 140	2.5940230	0.0000000	1.6318493	5.8498767	0.5056877	3.413567	4.4310145
## 141	0.8521587	0.8521587	0.0000000	5.3665880	8.0080991	4.866928	1.1425441
## 142	3.9993867	0.0000000	7.0681871	7.2933254	2.4680098	7.846001	1.6285870
## 143	1.6617040	5.1400424	2.2036710	3.5631093	2.8341246	2.203671	0.7834986
## 144	3.7186247	0.0000000	2.6795589	7.4579070	3.4478569	5.874566	0.0000000
## 145	0.8990209	1.1064153	7.7455479	1.4486896	5.6103575	3.999089	0.0000000
## 146	6.0930213	0.0000000	3.9617530	4.8689830	1.2696915	6.534832	4.5006045
## 147	7.9963209	1.6818990	5.2821766	5.4125715	0.4521737	11.624833	1.9799156
## 148	0.0000000	8.0763218	0.0000000	0.0000000	3.4065095	3.632803	0.0000000
## 149	8.2618401	0.0000000	2.2393980	4.9610630	0.4564908	12.235324	0.4564908
## 150	0.5465611	0.0000000	0.0000000	1.9121516	8.3166250	3.142495	0.9420077
## 151	1.3330802	0.5912007	1.3330802	1.3330802	6.9192698	13.169136	6.8670205
## 152	2.6774180	0.0000000	0.0000000	6.9528891	0.0000000	5.181448	7.9663428
## 153	0.4689482	0.0000000	0.0000000	5.2429797	7.3629099	5.104894	0.4689482
## 154	1.5429514	0.3994446	5.9148061	5.0116745	6.6964293	4.582947	2.8197908
## 155	5.4140780	0.8610819	1.2392147	4.2241561	1.3966527	4.988798	6.7723357
## 156	3.9491427	6.0281050	6.1342271	9.7165600	3.2430902	4.901673	1.9959548
##	rs_HSD17B2	rs_SLC7A2	rs_VSIG2	rs_FLJ45983	rs_KIAA0408	rs_FAM5B	
## 1	2.7157177	11.791121	4.7619554	3.3214231	3.648108752	5.0686149	
## 2	2.4151637	12.855548	2.5096958	4.8117998	2.565329083	2.9070252	
## 3	2.3287790	13.952654	4.6309238	5.2869920	5.878904319	2.9909912	
## 4	2.8179097	14.968028	2.2112926	9.1420915	0.000000000	9.5825344	
## 5	3.8550628	10.412281	8.3464468	7.2474614	0.000000000	2.0599090	
## 6	7.7144166	6.418588	1.0266584	4.0496482	0.000000000	0.6028369	
## 7	6.1691293	8.392889	4.3421778	2.8420737	4.758223215	0.8248086	
## 8	2.5529426	7.622951	0.4304994	1.7799321	3.852338490	1.4534912	
## 9	5.2436653	6.925229	0.0000000	0.0000000	3.442465835	6.7827375	
## 10	0.4930324	11.968640	1.6026944	9.9480153	2.497893341	5.0346735	

## 11	3.5073380	13.414469	7.5051160	4.4861866	4.256233225	2.2265702
## 12	3.1347959	9.129109	2.3440047	4.7319706	2.640898521	8.0083519
## 13	4.0206089	6.105249	0.0000000	0.9433588	3.081135072	2.6032881
## 14	5.2680413	12.065141	7.4255222	8.4766567	0.000000000	2.9453080
## 15	0.7778720	12.788925	1.9480027	10.4884838	0.000000000	9.9948960
## 16	6.4928658	12.999927	3.7505636	8.2575293	3.065968602	0.5474498
## 17	2.3731192	10.965903	3.8457811	8.6965489	0.000000000	5.7684940
## 18	0.0000000	12.279827	1.3375969	7.8792193	4.126964599	8.8296913
## 19	7.5039235	14.255952	5.0483713	9.0101174	0.000000000	5.4398259
## 20	0.0000000	10.338265	6.1925256	4.0460981	0.000000000	2.1534162
## 21	7.1441484	6.481987	6.3165151	4.0300270	3.499756613	3.4711614
## 22	2.6677105	5.833224	0.4976379	2.2347466	0.000000000	4.9380034
## 23	1.5278210	5.358379	0.9573203	7.7275638	0.380064459	1.5278210
## 24	5.2880115	6.984930	3.5045314	3.0690663	0.000000000	4.1701173
## 25	5.1098703	14.805779	0.4031586	7.9503074	3.453715105	0.0000000
## 26	2.5341612	7.929657	2.8855548	7.8183425	4.360357253	1.2210728
## 27	8.1053334	14.133891	5.1901921	8.4920082	0.000000000	3.5111770
## 28	5.7999939	9.099518	1.6194130	3.3969404	0.000000000	5.3355047
## 29	0.6805044	12.418048	3.3704573	9.2949058	1.698262937	3.6382592
## 30	5.9524943	11.610493	8.2748259	6.0283592	6.707737359	4.2909625
## 31	1.7587296	11.022257	3.5999485	8.4604207	0.000000000	2.4251101
## 32	0.4339209	10.802162	1.9286546	6.9762754	4.262245216	0.4339209
## 33	4.9917849	10.069216	7.4300243	8.6624192	6.921142325	3.3519251
## 34	5.0427100	11.959182	4.7221381	7.8590589	3.128491379	2.0231844
## 35	4.4008385	10.546600	7.1815389	3.7872653	0.000000000	2.8520588
## 36	6.2123223	8.358597	4.9111067	5.1729875	5.128693453	3.9974460
## 37	4.5996630	13.598109	5.6705968	10.1608542	0.000000000	4.1873798
## 38	3.4011526	10.011617	0.3576083	7.4798288	0.000000000	0.3576083
## 39	0.0000000	9.683515	9.0572797	2.4295624	3.105594276	2.1730635
## 40	5.2081505	6.736766	1.5493242	3.1744544	4.709147241	5.9545407
## 41	8.4278349	3.946403	0.0000000	4.0641154	0.000000000	8.2744667
## 42	3.9641121	7.509979	2.9526504	5.4860965	3.465334575	3.3203258

## 43	8.8669509	6.228973	0.9196833	4.1289367	0.000000000	0.5318680
## 44	4.6475678	12.771654	5.7246257	4.9972879	0.000000000	6.8542014
## 45	2.8766839	13.354379	6.1750115	6.5276959	5.812187576	8.6776911
## 46	6.0022164	15.339290	5.2277834	7.7015976	1.002162421	2.8480771
## 47	4.0893117	12.833197	5.6690012	8.0261001	4.096717263	0.3810618
## 48	6.5459498	11.034543	4.6257030	7.3492308	3.360350229	3.0892778
## 49	1.0969365	14.823688	1.0969365	7.5130398	0.000000000	2.0468752
## 50	1.7024802	12.939827	8.6417693	8.5579450	2.928351371	1.5521311
## 51	4.5149491	6.669034	3.6330592	1.3697736	2.177407578	4.6485287
## 52	1.5158638	13.446823	9.2006706	5.6784241	0.000000000	1.7617533
## 53	1.4009204	13.282165	2.6439024	4.8849886	3.581303036	3.2021669
## 54	6.4047175	11.188119	0.0000000	6.1689910	0.000000000	2.8137299
## 55	1.6262522	12.735561	4.3700247	8.3644100	0.000000000	7.3635671
## 56	3.4281424	5.153035	6.8029570	0.0000000	0.000000000	0.4924172
## 57	5.6159283	10.112487	6.6845691	6.1731094	6.219793876	4.0783878
## 58	5.5086283	13.297964	6.4926960	7.4078252	0.000000000	4.2674609
## 59	3.2979104	6.852495	1.3059705	1.3059705	0.000000000	0.3723950
## 60	4.4261037	13.494297	1.2317396	8.2613705	0.000000000	0.6223682
## 61	4.6637772	12.839282	2.9999820	9.7413048	5.712353660	4.7148280
## 62	1.4752406	9.634284	1.6215244	10.2810389	5.237988113	5.9570579
## 63	0.6244285	13.121398	2.4863540	8.9336411	2.860148384	8.7046680
## 64	1.1642714	9.314951	5.9691666	9.1366157	5.482564362	2.2398868
## 65	2.2775385	7.388762	1.0701145	0.3503841	0.000000000	6.2435834
## 66	0.6304987	10.577780	4.1471520	6.7643156	0.000000000	6.6429614
## 67	3.7378598	11.396496	8.9346510	5.4383461	0.000000000	4.7197420
## 68	5.7179368	12.578437	7.2495496	7.4527667	0.000000000	5.1124333
## 69	5.6281933	11.311227	6.3824511	8.1245334	0.000000000	5.0112273
## 70	0.0000000	14.514780	3.1577713	8.6733186	0.000000000	3.4124157
## 71	0.9124199	13.380311	4.5270453	7.7785424	2.869891142	3.7857807
## 72	2.2654669	9.521986	2.8263756	6.4565450	3.537209080	0.0000000
## 73	0.3305584	8.643562	0.8258670	2.2033578	5.021972682	0.5994130
## 74	0.0000000	6.127951	10.7542983	8.7453580	3.540287705	1.7341785

## 75	7.9577927	11.346083	8.7531372	7.7858284	3.760135766	6.2343040
## 76	3.8287128	12.144367	1.8646517	8.1671276	3.435601927	4.7367564
## 77	0.5937840	9.590320	2.7226409	0.5937840	10.154788496	2.4809113
## 78	8.6639796	4.778161	0.7392433	3.2782078	0.000000000	2.4197276
## 79	0.0000000	9.750388	1.3484591	0.5997939	9.482090564	0.0000000
## 80	2.9828932	4.569734	1.3922625	2.2190601	0.000000000	2.8264366
## 81	4.7208640	10.979388	6.5723501	4.2883659	9.972520347	3.8739313
## 82	8.0646161	10.594863	6.5259749	4.5516206	9.262800512	3.6118688
## 83	4.1902277	9.866208	2.3916028	7.5144561	3.108825510	2.5954559
## 84	3.9654518	15.275606	5.1798295	8.7455009	0.000000000	1.6270465
## 85	6.2937935	6.143832	2.9333838	4.5991095	0.000000000	7.0785586
## 86	0.2980717	6.581475	0.7556567	9.8411649	0.000000000	7.4219899
## 87	0.9937830	12.502020	7.6972685	7.5111802	4.320159710	0.4119685
## 88	0.0000000	7.312640	5.5907577	10.9061637	3.142266383	0.0000000
## 89	4.2332132	14.744574	6.3677537	8.2815916	0.000000000	6.3892966
## 90	1.4715517	11.540809	1.7136078	7.6169244	1.117894480	4.3578898
## 91	5.0561326	11.029233	6.6484482	7.6592638	0.000000000	0.4421208
## 92	0.6763577	12.315515	8.4225076	5.8902862	0.000000000	6.1613677
## 93	0.0000000	12.676179	1.4298570	9.5826636	1.940918448	7.0346823
## 94	2.9241569	9.334078	5.5409789	3.7663195	3.557838926	4.3962486
## 95	1.0734090	13.709650	5.4974431	8.5014563	0.000000000	2.7052702
## 96	2.3128684	13.709965	1.8662354	1.8662354	3.603121870	3.6398226
## 97	3.7612640	6.493692	0.3774014	3.5193532	0.000000000	0.6763577
## 98	0.4281424	14.367540	1.6197886	8.5529307	2.589116286	2.2633349
## 99	0.3981314	9.887789	0.9659874	7.4550452	1.766595162	3.9651655
## 100	2.4387719	12.584932	1.7893537	10.3973197	1.948376577	9.3289991
## 101	9.3498239	6.133004	6.9813686	7.5161302	2.387224662	9.6999007
## 102	1.3785116	7.721099	0.0000000	9.2531384	0.005759269	4.3645724
## 103	1.9475166	13.468930	1.7388543	10.2032527	0.675725619	2.6903053
## 104	0.8265993	10.968317	8.6525973	8.0879995	3.076045954	0.8265993
## 105	0.0000000	5.660233	6.1424318	5.7919963	0.000000000	0.9761436
## 106	1.9308130	11.798559	3.1396496	8.3293483	0.000000000	5.7499793

## 107	3.5226333	12.561637	1.2911910	8.7939612	0.000000000	8.1346517
## 108	0.6601985	11.803505	1.5998890	9.7533781	0.000000000	5.9115670
## 109	5.7432753	10.572063	4.4553404	5.1776468	5.124658990	8.6233778
## 110	1.9978343	12.486631	3.9973014	7.7205076	0.000000000	0.7357821
## 111	1.5378427	9.445808	3.9029804	4.3914447	3.487048947	1.5378427
## 112	5.2025000	13.172732	1.9693071	9.5353112	0.000000000	1.9693071
## 113	2.3279460	6.443729	2.3279460	3.0422241	0.000000000	1.9315318
## 114	4.5002029	10.752486	4.6606549	9.1775107	0.000000000	2.5005216
## 115	5.7668548	6.080278	0.6786128	0.6786128	5.141514537	0.6786128
## 116	0.4075159	13.913162	1.2050797	8.5620829	2.832424227	0.4075159
## 117	0.9849174	7.479607	1.8847151	9.6610083	2.821914259	9.2021358
## 118	5.4420643	11.780356	6.5069034	2.9764920	2.670251176	0.0000000
## 119	3.0937292	12.701963	6.7984964	8.3537948	2.685603817	2.9086592
## 120	0.0000000	4.945374	1.9737582	9.0451655	0.000000000	0.8467942
## 121	5.1285739	13.102961	2.9628451	9.0218234	4.372889431	1.2383589
## 122	1.2589410	14.569804	4.6656884	8.7297424	3.104906915	1.4549655
## 123	0.7771988	13.188294	5.9042866	8.1892790	0.000000000	3.7540537
## 124	4.3422489	10.959426	4.3203186	5.4033461	3.367860269	0.6890307
## 125	0.4859420	7.775193	2.0716940	6.3054909	0.000000000	1.0008654
## 126	0.0000000	6.401185	0.0000000	11.8101712	0.000000000	7.1225982
## 127	0.0000000	12.365036	0.0000000	9.0980065	1.726046456	4.3366476
## 128	0.8980922	13.415412	0.8980922	8.5582776	3.360294037	2.9834953
## 129	4.8833520	11.885295	6.8825624	7.7806441	2.156881964	0.5051796
## 130	8.4459174	9.799270	1.1647219	1.4091465	0.000000000	0.0000000
## 131	1.0501186	4.236064	0.4403144	4.5753607	0.000000000	1.8066128
## 132	0.9034240	10.571925	4.2690556	9.2379621	3.525505149	4.6403028
## 133	8.4912663	9.506495	4.8517940	4.2224800	0.000000000	1.5671073
## 134	2.8711931	7.955680	5.1412243	7.5872675	3.247547807	8.2560081
## 135	2.9496843	13.431149	3.0595629	7.3704756	0.000000000	0.9390008
## 136	2.7132339	12.547694	3.0475558	8.2403663	3.700062349	6.2444742
## 137	3.7284539	14.371697	2.5612039	4.6729797	3.721963179	2.8683905
## 138	3.8895612	5.928148	0.6561760	0.6561760	0.000000000	1.5923972

## 139	0.6763577	11.217873	0.3775125	6.5033424	2.691735146	3.9957830
## 140	0.0000000	8.132356	0.5056877	7.3894524	1.670387157	3.2951499
## 141	1.5911528	7.410088	6.9422881	2.9715528	2.621289993	0.0000000
## 142	3.2277873	12.484176	4.3095109	7.6344517	1.775387728	2.1656869
## 143	3.2713809	7.175323	5.8842340	8.9367710	3.122192293	9.5193345
## 144	5.2797090	12.607595	1.4865599	6.9698447	0.000000000	0.9268344
## 145	1.5935450	7.487338	3.8044666	1.5935450	0.000000000	7.0649184
## 146	0.5562087	13.385445	4.5006045	7.2917822	0.000000000	1.5268200
## 147	0.4521737	11.666760	0.0000000	9.1586970	3.595360434	9.6968486
## 148	7.0295843	10.905513	2.0004327	2.2020729	0.000000000	1.1378314
## 149	4.5895358	15.244887	3.7713257	9.9907701	0.000000000	0.8027309
## 150	5.0348584	5.652085	8.1180638	3.5353314	6.374142248	0.5465611
## 151	2.1843755	8.521338	7.4572430	8.3902782	4.365139594	10.0554003
## 152	8.5186811	12.780691	9.2478464	4.7409276	0.000000000	3.3410606
## 153	4.3088123	10.130472	8.7950880	3.4061965	2.278609284	2.9124583
## 154	8.7450699	7.839646	3.8153807	2.9445961	0.000000000	2.1727435
## 155	2.6877102	11.195702	4.9763774	8.4630527	2.737427183	5.3287288
## 156	2.5804591	12.844201	0.5831339	8.0086415	0.000000000	0.5831339

##	rs_GLDC	rs_FAM196A	rs_PNMT	rs_NCCRP1	rs_TMPRSS6	rs_KRT23	rs_CNTFR
## 1	1.8360857	9.2265360	6.0186364	5.9097659	4.5671438	9.843357	5.6637659
## 2	1.8188915	4.6959660	8.0399981	3.2731727	5.0188255	8.623132	1.0590091
## 3	8.0323979	5.2597018	8.8457296	6.5017655	9.1990338	9.580981	6.3739735
## 4	0.4889263	8.9040731	1.9350825	3.5719923	6.4215616	6.052144	3.0464387
## 5	8.8473330	5.8885217	3.3935123	5.9171811	5.2571049	11.677877	7.5300957
## 6	6.5914954	1.8453495	1.3538878	11.0034246	1.6204457	12.376362	4.4427379
## 7	6.2949221	5.5273675	3.8956419	5.0944979	2.5882049	11.002749	3.3583541
## 8	9.2589582	2.3709454	2.0460020	9.2165810	1.4534912	13.085291	9.2605950
## 9	4.6678240	1.3553546	2.2131295	4.1395923	3.1363883	11.915819	8.2839667
## 10	3.5849865	7.1031199	7.0859164	3.5849865	5.2507646	4.242320	4.7147785
## 11	6.3211380	4.6295781	1.7406686	2.7414670	3.8462325	7.144813	5.3270945
## 12	3.1347959	3.3598163	1.0785415	4.6703078	3.5081878	4.711710	6.7365210
## 13	1.9142201	2.4893374	0.0000000	9.9786550	2.0808623	11.983514	0.9433588

## 14	2.9453080	4.2036945	3.1767855	6.4833611	6.4170153	11.287129	5.2929216
## 15	2.7477741	7.4063896	0.0000000	9.2799221	8.8987045	7.292633	1.6525094
## 16	2.7087611	3.8918080	4.7710193	7.7886857	7.0092856	8.532060	2.2301108
## 17	9.0562435	4.2461496	7.5790700	3.9664397	3.1607750	4.899475	8.8468951
## 18	10.0666292	8.3245748	4.6903389	6.3018126	9.0954231	12.664962	7.5957416
## 19	4.1390274	4.5974537	0.8949923	3.7042301	6.0762683	11.026367	3.4631647
## 20	8.3502059	1.9538240	3.2663218	11.9751327	5.2507456	4.908198	9.4451742
## 21	2.9747312	2.8986921	10.0515299	8.7603893	6.7649923	4.290218	6.0439197
## 22	5.9240975	0.4976379	1.1606621	6.8152488	1.7954345	8.396943	3.5993535
## 23	11.3073459	6.1906623	7.4097354	3.0931883	2.1030276	3.620680	7.3275374
## 24	2.8646319	2.4423862	1.9843706	5.6377696	1.3094673	11.188833	1.5099998
## 25	1.3852101	3.3259476	4.4776773	6.8309727	8.9845945	7.896662	2.0786781
## 26	3.6983407	2.8326268	6.2240094	2.8855548	6.4340494	5.455025	5.2683146
## 27	1.6563133	8.9139324	5.1323547	5.7761566	1.9521099	11.745191	3.4650603
## 28	4.3851825	4.9662043	7.0667027	6.3175302	4.1358878	1.801986	7.9760038
## 29	10.0220597	10.2861168	2.3837734	1.8922744	11.4459245	8.520221	2.4647728
## 30	1.9898656	5.1213056	4.9235723	4.9756073	6.2345990	10.731860	6.4023930
## 31	10.8268738	9.8860815	5.6742290	6.0990090	7.7332045	9.058066	4.2982624
## 32	1.2651368	4.0078862	2.1727435	4.0694874	6.6481519	12.160010	5.3698468
## 33	3.4487028	5.7202237	4.4759928	5.2818058	4.5432917	10.403948	7.5078985
## 34	3.8651963	4.1405742	9.8008687	4.1759477	1.2100771	10.050590	4.2442021
## 35	4.2972501	3.2350684	10.2751931	6.3159303	4.4974846	5.756364	9.0219344
## 36	6.2123223	3.3194734	0.5137939	11.0884250	4.2124293	10.610668	5.2067995
## 37	6.6686269	8.3121192	2.2851950	4.7686660	7.1118910	7.129739	7.9294922
## 38	9.3367388	2.9011276	1.4264795	6.1506795	6.7572727	9.421447	0.3576083
## 39	4.2799541	1.6751836	0.5247658	8.6399748	0.9088129	6.352718	4.7487242
## 40	6.2688068	2.6177921	1.1918784	9.5399668	1.5493242	11.409737	7.0792981
## 41	1.5684700	2.0964305	0.7270927	9.4291713	2.5643050	11.472208	2.9170498
## 42	2.6423550	5.9289838	12.0045432	11.7887693	2.2465297	7.890767	8.4744616
## 43	5.1963907	2.6667566	3.1008263	13.1755500	0.5318680	12.780494	7.4464911
## 44	6.9521250	4.8010086	5.1825056	2.7280076	3.6148158	7.816296	6.3999230
## 45	3.2167187	9.0618596	2.2940472	5.6239927	8.4469782	7.031433	6.9653560

## 46	9.4959995	2.3253864	5.1850300	6.4975964	7.9810769	6.324568	1.2980131
## 47	1.3285493	4.2353901	3.9267585	3.5336132	1.3285493	10.301362	6.6152618
## 48	5.1089049	3.4738518	2.0626744	9.2332654	6.5414823	9.822961	6.2770716
## 49	0.6503050	8.3632718	0.0000000	3.9294975	9.0584664	12.752066	5.2046494
## 50	5.2974996	3.3702340	4.1755725	7.2817149	6.8894954	10.320121	5.9662136
## 51	1.1810389	4.2037571	0.9639180	10.0972728	1.6861643	13.199697	5.4096693
## 52	5.8675456	10.6887529	2.8828778	4.0128815	5.7442580	5.380182	5.3238816
## 53	0.7279640	2.3966527	0.7279640	9.9296153	6.6499861	5.705688	0.9887029
## 54	10.3644089	8.7287277	4.9281666	7.0511393	6.0113011	7.302018	8.8884532
## 55	4.4110398	7.3739770	0.0000000	2.1946544	8.0732649	7.744675	3.6585428
## 56	0.4924172	4.5216224	2.8283269	10.8232254	0.0000000	11.789225	2.2207943
## 57	3.2184557	4.2249278	4.8120361	9.1609804	2.0877683	8.438969	7.8318905
## 58	2.4554127	4.3827157	4.3377111	5.5486709	6.6846210	9.358435	5.0317922
## 59	10.1866648	2.4376272	0.3723950	8.6461396	1.1230040	11.780255	7.5770594
## 60	8.4928446	5.7655798	0.0000000	4.8604365	7.3254935	5.751201	4.8058341
## 61	0.6858953	11.3643093	7.1519390	1.3343967	7.7782046	6.080048	11.2494328
## 62	4.1388145	9.3388246	2.0921736	2.4464415	2.9122091	4.645805	7.5494867
## 63	0.6244285	10.6609187	1.0588014	1.2351143	8.3096828	3.272859	5.5473696
## 64	2.3610384	8.4806961	2.1076544	8.1070638	7.5095090	8.074220	7.2519785
## 65	4.9778935	3.5167716	4.2793227	8.5202667	1.4056657	12.210144	1.5480913
## 66	6.9029274	8.6049320	1.7935214	3.6131426	8.6636367	7.326490	4.1692917
## 67	3.6253757	2.8081791	2.7377733	3.4603101	5.2488650	10.582476	7.1973524
## 68	8.4279447	8.5114767	3.5712885	5.2834885	7.6666387	9.562093	6.3107945
## 69	2.7840223	4.3070860	2.8758980	4.7449791	4.0552824	10.455874	4.9061931
## 70	1.4450380	3.9514852	2.2600257	5.0462597	1.4450380	4.650661	3.1577713
## 71	2.1791607	4.9228591	3.0493345	8.2195979	6.6506310	5.445174	3.1242454
## 72	10.3177786	3.7209132	8.6700238	5.6141709	2.3754287	7.740599	5.6364303
## 73	6.3230566	2.3562847	0.5994130	8.5174296	2.2818466	9.026451	5.9787768
## 74	2.3425832	10.0011986	6.3653198	3.1928727	9.3998549	6.573508	3.9031926
## 75	3.3955838	6.8450923	4.9015379	5.6128390	7.7308342	11.159060	7.5298951
## 76	1.0923428	5.2897164	2.5622058	2.1363555	5.7198132	5.809916	0.8113066
## 77	0.0000000	0.5937840	2.4809113	3.4160425	0.0000000	5.175221	10.7231570

## 78	1.8786861	0.7392433	3.3744553	8.8012680	1.2257068	12.507950	6.3632640
## 79	0.0000000	2.2042033	2.9450458	2.0330882	1.3484591	1.022119	10.9462958
## 80	5.1508968	3.5810861	2.5544906	11.7627771	2.4511188	12.697977	2.5544906
## 81	3.3603783	2.4305797	2.4305797	4.5511038	2.9691229	7.179212	9.6703277
## 82	1.4834160	1.2308793	2.0507455	4.8043685	3.0329119	10.614004	9.3409803
## 83	1.0439744	7.3644919	0.3397075	2.3166961	5.5275927	7.389833	3.3256311
## 84	2.0472592	5.2004651	5.2704505	9.4403163	7.5380446	11.444311	4.3449066
## 85	8.5303728	3.6574457	2.6452175	12.6350128	1.2528395	9.707109	1.8030617
## 86	11.3310647	12.4007750	5.1924625	0.2980717	4.8915601	7.767142	8.3196482
## 87	10.3154871	7.1508683	5.2977197	8.2528154	6.7777406	10.440487	6.5726426
## 88	2.1626612	5.3307341	0.0000000	4.2390772	8.3327563	2.451778	1.5787455
## 89	4.9063375	0.8704239	0.4998841	0.0000000	8.8398028	9.680441	0.0000000
## 90	4.9956518	3.7724558	1.3333665	0.3257318	10.6430675	7.989000	2.0142482
## 91	9.8721790	2.8268840	4.8916185	8.1993607	4.6657054	4.891618	4.9762216
## 92	4.1972757	5.2510108	4.3103183	4.5865426	3.0315716	10.393603	3.4018216
## 93	1.6007455	4.3443953	0.7464848	1.0118534	5.6861391	4.666552	2.8949147
## 94	2.6879789	3.4631908	1.7190958	6.6039987	3.7963901	7.467045	4.3764849
## 95	5.1943984	5.3391766	1.0734090	2.8225262	1.4095810	8.925909	1.6819889
## 96	1.6802343	4.0767985	3.3590010	2.5485846	5.2494871	4.911869	3.0868517
## 97	7.4014103	3.0834006	1.3191555	9.8645268	4.6566394	8.406068	6.2937420
## 98	2.6283303	9.8746776	2.4573579	5.9090002	8.0308823	5.875426	2.4573579
## 99	7.0914650	2.1685458	0.9659874	2.0627780	4.1572701	8.460071	6.3858607
## 100	5.1047224	10.2149268	4.0636755	7.7263728	10.2595552	6.626016	5.6045814
## 101	6.8541752	6.0448203	6.9020205	6.9931977	6.1854999	3.575712	3.3366690
## 102	4.7548875	5.0443941	6.3680699	7.3628205	8.3010388	12.702735	1.1375035
## 103	6.7550611	7.6055995	3.6355919	4.4100493	8.5960928	4.948138	3.4074071
## 104	4.0417161	2.9211507	4.5263130	2.7657469	5.2231561	7.163081	5.6801977
## 105	10.8132453	10.6974309	3.5409696	1.7731946	4.7865441	1.773195	0.0000000
## 106	10.1863042	9.7892386	2.6583029	5.6000229	9.6961020	7.040402	2.0444641
## 107	1.6648924	8.3862604	5.5860381	3.6528306	10.4397455	7.868182	4.4101783
## 108	5.8692249	9.9948751	2.1641426	7.7894645	6.4791626	7.526599	2.7662559
## 109	7.0919864	5.8249078	0.5315686	5.3608418	4.1995860	9.239910	6.6678836

## 110	2.3196179	5.9513593	5.8130860	5.0704537	6.2639414	5.769759	1.5830376
## 111	3.2092506	5.3341428	5.7961954	5.9147415	6.0030287	6.887352	6.3161494
## 112	7.6142615	3.5643660	5.2663480	4.2725906	5.9004225	8.196767	7.2098179
## 113	1.7708290	1.5900031	2.8940417	4.2851211	5.7461488	6.897418	1.3831651
## 114	3.2708578	7.2070670	3.9673808	4.9825647	4.2707382	6.384207	4.8556609
## 115	4.3797942	2.8085086	6.7615539	10.7076684	2.3795932	10.588935	9.5201940
## 116	5.5946620	4.2190911	1.3961047	4.2441564	4.4520485	10.277530	0.4075159
## 117	8.6553633	10.0347720	9.4393491	2.3678183	6.2461838	2.434668	8.5291225
## 118	6.6662183	4.8000301	0.0000000	4.4337674	5.0103547	7.618406	1.1694120
## 119	3.4049848	3.6608488	3.0346383	2.1459709	5.7847500	6.965992	4.0370835
## 120	0.6156988	9.0524162	1.5176284	2.9855733	7.0555015	9.661108	0.3405053
## 121	3.7747238	7.0536892	1.7073039	4.1872848	3.0443417	7.643226	7.2766390
## 122	1.0320303	6.8309905	3.4266002	10.1805296	8.8147753	8.978130	6.1917719
## 123	2.6676197	8.9851455	0.0000000	5.2792298	5.5668030	7.428959	4.9533258
## 124	2.4832096	2.1266425	3.9435744	6.9003512	1.3394225	7.289966	7.3534503
## 125	3.5865486	2.0012978	9.5784033	1.5861162	5.9181811	7.026304	1.6792436
## 126	6.6456541	11.9646231	3.5292213	3.3617403	7.2115068	5.252442	6.8010759
## 127	3.2533237	9.5791971	4.4348083	1.8030617	8.6233303	2.070698	3.3571156
## 128	9.4077555	3.2247040	4.7653491	7.7240731	7.5664879	5.865097	3.8609628
## 129	2.1225402	3.1646737	2.7804361	2.5926364	1.6307316	2.592636	4.9630949
## 130	1.6181447	2.3616280	7.2210467	4.7143005	0.8701871	3.079139	5.0206000
## 131	1.8066128	1.4773665	0.7771988	1.2795307	4.7766146	8.377423	5.1689228
## 132	3.4608212	9.2010974	5.6861783	5.1091056	0.9034240	11.170941	3.2787133
## 133	4.6634813	4.7917151	6.7986455	10.2739607	3.2686739	4.750221	3.5841568
## 134	3.5642196	2.5392333	4.4630862	7.0623322	6.3400637	6.954499	3.1892711
## 135	6.8227059	4.5049953	2.8307218	4.2036632	4.4044468	8.630420	2.4817639
## 136	2.6159812	5.9373962	3.1202856	5.0094323	8.0252093	6.753328	5.2713846
## 137	2.5612039	8.7420429	3.0622772	7.2168341	6.7891267	8.301157	2.1703738
## 138	5.8582596	1.8445463	3.2687488	8.0151491	1.2867038	5.738884	8.2583851
## 139	6.6219830	2.3748726	1.3192133	4.3742257	2.1008768	9.458416	2.7403232
## 140	1.6318493	6.5831324	2.6909981	3.4693130	5.7408439	1.175940	8.9613950
## 141	1.9328171	2.9715528	0.0000000	6.1008284	0.0000000	12.145803	1.9328171

## 142	4.4075771	2.8631852	0.0000000	6.0335419	8.8017468	9.914527	5.0325285
## 143	5.0486765	3.6894669	3.0999179	4.6940444	0.7834986	7.759358	2.5080483
## 144	1.2337040	2.2030132	0.5366498	3.1874352	8.3835224	10.976863	3.3870316
## 145	8.4563339	1.4486896	1.9570602	5.0059793	1.5935450	10.012219	2.3321923
## 146	5.1430995	5.4529710	3.0099741	3.0099741	8.3715484	5.468381	2.8308232
## 147	4.0727661	10.3645537	1.3058538	0.4521737	6.6226815	9.650027	6.3764884
## 148	7.4956296	5.7339210	2.5365254	4.9547547	1.4857875	9.902650	2.0004327
## 149	8.0970856	7.9976464	1.0817487	3.6482468	8.8133627	11.023464	2.2393980
## 150	0.0000000	5.5422921	2.2280183	8.4114046	0.9420077	12.330295	9.1844745
## 151	3.2645364	7.5242674	4.7593370	2.1843755	7.0240382	7.697948	5.8637279
## 152	1.1670367	3.7938959	12.6184319	10.1333746	8.3099442	6.048330	6.8424031
## 153	1.7243883	4.0323213	10.8828555	8.9610433	5.8444108	5.472452	5.8918396
## 154	6.1789417	2.6831574	3.1658316	11.1158121	2.9445961	12.348108	7.6326187
## 155	6.5887311	6.0512633	6.8043040	4.6408985	2.6877102	9.939305	11.6163918
## 156	1.8035164	4.2043442	0.5831339	1.5813512	6.7955488	11.116136	2.9022087
##	rs_PAX7	rs_UGT2B15	rs_MMP12	rs_GRB14	rs_FGG	rs_C2CD4A	rs_TFPI2
## 1	8.5408096	4.7845563	1.1923204	2.5140970	0.0000000	2.5140970	6.1287264
## 2	0.4448791	6.0911582	3.1016837	0.4448791	0.0000000	8.4190720	3.6913108
## 3	0.7921057	5.5118254	7.5370467	7.8816781	4.0643052	3.1179942	4.2968758
## 4	0.0000000	5.2214363	1.7742494	2.8179097	0.0000000	1.1442422	3.3616140
## 5	0.4815056	4.0049957	3.7314114	2.9514572	0.0000000	3.3380678	5.5037939
## 6	0.0000000	4.6052691	5.1806929	9.5336124	0.6028369	3.8039296	6.2220993
## 7	0.4706150	5.8210494	8.1343473	9.3245971	0.4706150	6.6784508	6.0814696
## 8	0.4304994	0.0000000	8.0738829	7.8178605	0.4304994	0.7617108	4.4956696
## 9	0.0000000	0.0000000	4.4790688	2.0416986	0.0000000	3.1363883	1.0279325
## 10	0.0000000	3.8925950	3.2563616	5.0346735	0.0000000	0.4930324	4.0780291
## 11	0.0000000	0.4164074	1.7406686	10.2852927	0.0000000	6.6634585	11.0232653
## 12	7.6547713	3.7657363	2.7136298	1.6888070	0.0000000	2.7929178	6.0575413
## 13	0.0000000	0.0000000	3.8919635	6.4631549	0.0000000	0.5474498	5.2449517
## 14	0.0000000	3.4664444	1.5900990	8.2057244	0.0000000	6.1161277	4.5721742
## 15	1.6525094	4.3430027	1.8078083	1.2804813	3.4600217	0.7778720	3.3121714
## 16	0.0000000	9.1629444	4.1002544	1.5088850	0.0000000	7.3196252	2.0807600

## 17	0.5039593	3.5174647	6.1288687	1.8108132	3.5174647	1.9732072	3.0191681
## 18	1.5405729	0.4665488	0.8186052	6.0171380	0.0000000	4.1225485	7.9252702
## 19	0.8949923	5.6354555	2.3252137	2.5536063	0.8949923	8.4676129	8.8651780
## 20	5.4249254	5.2615947	1.1040682	7.4830023	0.6551686	1.9538240	12.7281375
## 21	3.9189300	3.4711614	4.7885343	7.2358477	0.0000000	8.2115442	2.9747312
## 22	0.0000000	0.0000000	8.8332288	7.0796650	0.0000000	6.4779752	8.3412359
## 23	11.3396832	0.9573203	2.2530514	11.5937728	0.0000000	4.3437986	3.6206802
## 24	0.4537546	1.5099998	7.8649277	6.8665408	0.4537546	1.6860298	7.2354887
## 25	1.7035437	3.3716007	2.5450788	0.0000000	0.0000000	5.6625872	7.4034867
## 26	2.4662878	0.0000000	1.2210728	6.7729756	0.0000000	3.6983407	5.8373908
## 27	0.0000000	7.5970186	2.9662274	2.0800095	0.0000000	3.0929347	6.4383677
## 28	11.3641488	1.4103411	5.8526880	0.8710551	0.0000000	3.3390233	6.0370132
## 29	0.0000000	3.4118872	2.3837734	1.6366826	1.4895943	2.2979544	3.6382592
## 30	0.4557546	6.1912488	2.2372884	6.1313425	7.0580567	6.2627921	12.9824164
## 31	0.0000000	2.8791764	7.7519403	3.3972553	3.3417865	3.5021524	3.5021524
## 32	2.6468999	2.1727435	3.1242123	8.8908242	1.0374525	8.0064125	3.7312593
## 33	1.6440408	3.0151942	3.3519251	11.9169042	0.0000000	3.6655861	6.2697831
## 34	0.0000000	1.6731493	2.6447562	4.3093654	0.0000000	7.0905253	6.4757902
## 35	5.6234748	7.5849542	1.8324040	7.7848900	1.3007680	7.6229413	9.1379791
## 36	1.6502131	2.8907191	10.4256340	2.8907191	0.5137939	2.6166165	7.6554971
## 37	0.5165195	10.0936708	3.6579715	2.0047890	0.5165195	3.7063537	4.2539968
## 38	1.9309644	0.8827604	8.2703047	3.0058850	10.2512298	6.4302284	2.0336521
## 39	1.2117598	7.0025990	6.4857939	10.5597049	0.0000000	7.8261944	4.0316951
## 40	1.3816710	0.9733541	7.0375898	5.1700532	0.0000000	3.4535176	5.8459642
## 41	2.7158934	0.0000000	9.8107307	10.3396976	0.9876119	0.7270927	0.0000000
## 42	6.8854523	1.5224073	5.9897657	2.8810968	1.9986649	7.8491924	6.1352332
## 43	0.5318680	0.0000000	3.4340677	6.1129545	0.5318680	4.2689658	3.1008263
## 44	1.6725159	3.8518490	4.0553866	4.9100035	2.6583029	5.6813481	8.7273947
## 45	1.7824924	8.4690031	3.8743248	2.2940472	2.1428382	2.7774723	5.3753036
## 46	0.4485838	5.3617824	3.7829956	2.6102748	0.0000000	6.0104017	6.7724795
## 47	1.1435240	4.2120479	6.0442630	1.8955741	0.3810618	7.0097928	5.0462946
## 48	5.5788512	4.1501128	5.7742600	4.6916961	2.2495364	4.4461702	4.0277026

## 49	0.6503050	6.6695555	4.7653173	7.0931302	12.1273334	5.6014380	10.3524607
## 50	0.0000000	1.5521311	3.8607344	8.0185557	4.2749325	3.9833129	9.8162727
## 51	0.0000000	0.3971458	6.8621526	6.6645340	0.0000000	1.3697736	6.1630780
## 52	0.0000000	6.7307378	7.8237360	0.3399355	0.0000000	4.0128815	5.7153690
## 53	10.6181980	3.0389629	1.2095158	4.1749816	2.6439024	5.3929081	4.4378070
## 54	2.2934882	3.7836243	5.9042770	3.4030904	1.2744704	1.4718638	7.1299908
## 55	0.0000000	3.0277910	1.7592411	8.9470413	0.3765127	2.6013637	11.0827207
## 56	0.0000000	0.0000000	11.0380333	8.3615442	0.4924172	3.8906802	1.6013162
## 57	2.5098985	4.6345991	2.3142035	9.7187515	0.0000000	1.9596589	5.3223284
## 58	0.9715895	3.7194792	1.9571717	3.4919429	0.0000000	4.5498724	4.1157824
## 59	0.6681191	0.0000000	10.5986554	7.1017394	0.0000000	1.1230040	4.3109145
## 60	6.9094107	2.6145685	2.2557726	5.8489509	1.5300208	3.3074722	5.2460128
## 61	2.0155689	4.6980128	0.0000000	8.1865833	0.3832757	3.7847657	4.2675882
## 62	1.1288873	7.7236282	1.9880848	1.8759373	0.0000000	1.7543317	3.1234344
## 63	0.0000000	1.8906412	3.1896664	0.3457370	0.0000000	0.6244285	3.2318624
## 64	3.9904557	2.5764738	6.9527948	11.4374635	0.0000000	7.0729279	4.6673472
## 65	0.3503841	0.3503841	9.3321030	6.2540138	0.0000000	1.6777112	6.5234098
## 66	0.0000000	5.6534040	0.6304987	0.8656813	3.9818161	3.1615491	1.7935214
## 67	0.0000000	7.5909201	3.3701085	5.4272039	4.4159547	3.9705316	11.5122203
## 68	0.0000000	6.2173878	5.9461460	3.8763991	5.7264389	3.8455101	6.6998570
## 69	0.0000000	5.9202028	3.7006395	6.5591415	0.2944296	4.4633478	9.6052078
## 70	0.0000000	8.8267938	2.9157886	7.2273137	1.0240359	2.7776406	12.2092702
## 71	0.0000000	7.1845183	1.0723116	5.0909974	0.0000000	5.5233549	4.5812187
## 72	0.0000000	2.1464271	3.5438175	1.7158055	0.0000000	1.3352546	5.5334419
## 73	0.0000000	0.0000000	8.6001802	5.9369370	0.0000000	1.7302269	7.0169074
## 74	0.0000000	3.6921482	3.9849721	1.7341785	0.0000000	0.3683772	0.9050428
## 75	0.3978030	7.6164614	3.9038385	5.5555616	6.6491139	4.3923174	11.2202344
## 76	1.0923428	5.5207334	7.3874211	9.5618382	2.8152270	4.5165762	2.6515684
## 77	0.0000000	2.0197019	5.3109399	7.2158514	2.9296206	1.3377111	6.6698021
## 78	0.4165155	0.4165155	2.3265661	5.9364259	0.0000000	3.1206008	2.7418768
## 79	0.0000000	0.0000000	3.2873098	3.4321310	2.2042033	0.0000000	6.3832585
## 80	0.0000000	0.4918018	4.5942081	6.8060237	0.4918018	3.3705688	6.0619231

## 81	0.0000000	3.4273380	1.7821989	7.3224221	0.0000000	2.6705911	9.0294620
## 82	0.0000000	5.7180602	1.2308793	7.4604436	2.1992169	0.0000000	8.0597690
## 83	0.8451086	3.4359086	0.8451086	4.2914857	0.0000000	6.7403852	5.7573593
## 84	6.9569581	3.3417581	4.8018312	5.6312207	0.0000000	5.2801769	8.2361204
## 85	0.0000000	0.0000000	6.2046181	3.2170446	1.0748479	1.5540485	6.4434475
## 86	0.0000000	5.9389632	0.7556567	4.9462723	0.0000000	0.5448810	0.2980717
## 87	0.0000000	6.6218819	3.1044709	4.2106149	0.0000000	0.0000000	4.4031723
## 88	2.1626612	7.7489194	1.3163196	3.4509341	0.0000000	0.0000000	0.9953036
## 89	0.0000000	5.6158312	5.3922487	4.6919417	0.0000000	0.4998841	7.0474130
## 90	0.0000000	3.6023619	6.7261487	13.7992002	2.6007931	3.2649117	11.5987505
## 91	1.2834477	6.0263729	9.1648195	7.8904795	2.6731720	5.5732442	3.5987344
## 92	0.3774014	7.5878720	6.7151658	11.6085831	0.0000000	3.6280270	8.9151576
## 93	0.0000000	4.1377576	3.9289672	6.9343337	0.0000000	0.0000000	4.5669491
## 94	2.1500397	10.5163011	2.1500397	9.0843667	0.0000000	5.4398525	6.1005951
## 95	4.9327132	5.9863381	6.5078898	5.4064618	0.0000000	5.9988499	10.8923821
## 96	1.4667054	3.7384436	7.4563331	2.4355486	0.0000000	6.1066142	2.0309716
## 97	0.0000000	0.0000000	10.2981476	8.9382079	0.0000000	1.3191555	6.3209792
## 98	1.0261627	8.1532500	2.2633349	2.0391033	0.0000000	1.7734900	2.1555550
## 99	2.0627780	4.5190009	3.7434827	5.4973760	0.0000000	4.3037442	5.8471526
## 100	0.0000000	3.5004834	5.7565350	0.9873936	0.0000000	0.9873936	3.8832982
## 101	1.2018847	6.7979611	3.2604171	2.6918914	0.0000000	9.4089742	3.0039800
## 102	0.4854268	0.0000000	0.0000000	11.1938949	0.0000000	0.4854268	0.0000000
## 103	0.0000000	6.3305674	4.3743649	2.2130050	0.0000000	2.4371212	0.6035967
## 104	1.3487423	0.0000000	1.8902910	7.6112292	0.0000000	0.8265993	1.1111649
## 105	0.0000000	2.2835959	5.7982787	1.7731946	0.0000000	6.2425815	1.2933116
## 106	0.0000000	3.2855058	3.3310172	4.0553866	0.0000000	0.0000000	2.3399355
## 107	1.0603241	5.0213820	3.5226333	3.3795101	0.0000000	6.4447946	2.0895998
## 108	1.8525982	5.2087162	2.7033665	7.8793241	0.9034240	1.1114988	7.1050735
## 109	0.0000000	0.0000000	8.0386145	3.9312576	4.1995860	2.0420840	7.9761769
## 110	2.7345254	7.2323528	5.4675012	1.2207633	0.4143521	4.8045751	2.9974731
## 111	7.9678920	1.1820566	2.0609466	5.2403907	0.0000000	7.4938659	4.9309786
## 112	0.0000000	2.1151331	2.5845777	2.8575830	0.0000000	2.3688801	3.4033086

## 113	0.0000000	5.2628278	6.7543023	5.3789000	3.6622739	5.7243692	4.1609041
## 114	0.4144603	9.6498480	4.2953998	3.8390627	0.0000000	3.7347421	4.0566355
## 115	8.0413563	4.2029035	6.6878334	0.6786128	0.0000000	3.8887822	2.6791986
## 116	0.0000000	2.1985256	8.3619552	2.5596386	2.0921059	7.5621630	5.2433606
## 117	0.5749250	9.9854570	1.1531568	3.4318770	0.0000000	0.3159140	2.6184266
## 118	9.6537358	4.8000301	8.7103374	6.3165223	0.0000000	8.7464545	3.6856711
## 119	0.4250295	3.9755752	4.5189002	10.0549003	5.6136142	5.9537588	12.0418596
## 120	0.0000000	7.5656596	0.3405053	0.0000000	0.0000000	2.3197624	3.2505675
## 121	0.0000000	2.6864333	3.5136676	2.6864333	0.0000000	2.7845668	8.9336694
## 122	0.0000000	2.9293555	2.7910013	8.8695180	1.2589410	8.1488406	4.4060944
## 123	0.0000000	6.0744005	4.9698504	2.9600483	1.4774701	3.9665874	9.6155173
## 124	0.0000000	3.0072134	2.0217995	6.0285515	0.0000000	7.2899663	3.6934981
## 125	2.4868431	3.7457644	7.0151809	11.4765530	0.0000000	6.7076932	1.5861162
## 126	0.0000000	3.1722155	0.8825257	7.8874668	0.0000000	0.0000000	2.8732423
## 127	0.0000000	0.0000000	1.4742024	1.4742024	2.8878567	3.5446708	8.1610391
## 128	0.6559929	6.2340280	4.7187945	5.1632048	1.5922059	7.0967278	2.4869717
## 129	0.0000000	8.3034050	0.8786861	2.2551986	0.0000000	0.0000000	5.9593621
## 130	0.0000000	3.3372687	0.8701871	3.5561473	0.0000000	3.8738526	5.2575953
## 131	0.4403144	1.2795307	8.0696699	0.7771988	0.0000000	0.4403144	3.6755111
## 132	3.3420142	5.4335871	5.0344314	7.2232159	0.0000000	4.6148983	7.9247911
## 133	0.0000000	3.2086733	6.5249350	1.7466137	5.6232845	6.2699308	5.9599672
## 134	6.2171241	7.9131054	4.4432751	9.5889735	2.2046416	0.9278206	6.2686908
## 135	3.1616620	5.1265847	5.1139047	5.3156387	1.1524430	5.3806013	5.1011080
## 136	0.0000000	3.5988297	7.7637555	3.8332443	4.4839254	2.8900575	2.6159812
## 137	0.4330663	7.9974719	6.7284920	3.6501442	0.4330663	5.3545932	6.4040090
## 138	0.0000000	0.6561760	0.3650206	4.9381634	0.0000000	0.3650206	3.3524619
## 139	3.4019171	6.7716440	9.3600778	6.7834422	6.0551805	4.8928913	6.8258950
## 140	4.6875702	6.6984227	5.1294891	5.7064615	0.0000000	0.0000000	3.8088278
## 141	0.0000000	3.2409401	4.6058143	5.5263380	0.0000000	5.9772066	3.0437644
## 142	1.6285870	3.3804940	5.8625307	6.0024933	8.3283841	8.2346345	6.0258438
## 143	0.4443490	0.4443490	10.0932001	9.2105998	1.8174595	3.9473015	8.4094486
## 144	8.4388912	0.0000000	8.5119345	1.4865599	8.4722189	2.2030132	6.2862232

## 145	0.0000000	0.0000000	10.5250025	7.7299612	0.0000000	1.7251304	5.3999333
## 146	5.0843067	6.0830453	6.2349228	2.7321389	0.0000000	4.9146937	3.2428464
## 147	0.4521737	2.1086248	1.3058538	5.3618210	0.0000000	0.0000000	5.1686541
## 148	0.0000000	2.6785677	5.9313048	7.2332343	0.6782522	1.1378314	2.3789832
## 149	1.5165195	1.5165195	0.0000000	3.0779095	0.0000000	1.3154503	1.8501593
## 150	0.0000000	0.0000000	3.4158938	7.4969792	0.0000000	2.3633393	1.2521128
## 151	1.5973643	6.0626722	1.5973643	5.8255821	0.3256167	1.5973643	4.4606508
## 152	8.8984200	0.0000000	0.5010060	1.8036404	0.0000000	1.4117516	3.5600057
## 153	6.3031323	3.1178945	2.8369340	10.7225669	0.0000000	5.0557683	0.4689482
## 154	7.2618326	2.7530910	6.4968809	4.8294538	0.9685700	0.3994446	4.3545721
## 155	1.0625362	0.6269530	5.1300330	6.5928038	0.3472121	1.2392147	2.8047144
## 156	5.3522854	0.0000000	5.8650577	4.5494166	1.8035164	3.3170725	3.6388848
##	rs_ZBTB16	rs_ART3	rs_NPY5R	rs_DCDC2	rs_PCSK1N	rs_UGT2B28	
## 1	8.9966156	0.5144000	0.8928184	2.4016305	3.7920328	1.1923204	
## 2	6.6536061	0.4448791	0.4448791	6.9559753	3.8442450	1.9594734	
## 3	8.5345819	0.4497462	4.9709089	9.5375504	3.2347159	0.7921057	
## 4	5.3267027	0.4889263	4.3762904	8.4446882	0.4889263	1.3860936	
## 5	5.0993162	1.3700527	3.4983913	7.5288893	2.7955384	1.1300083	
## 6	2.7453234	8.7091910	5.5435949	3.2170446	6.6817275	1.8453495	
## 7	4.7253649	6.2949221	0.4706150	6.1425993	3.1231861	0.0000000	
## 8	2.9273276	7.3552648	2.0460020	3.0733404	4.9976718	0.0000000	
## 9	0.0000000	8.7539030	7.6586764	3.3718237	11.0000135	0.0000000	
## 10	4.0428019	0.4930324	2.2224027	0.0000000	1.1519887	0.0000000	
## 11	4.4644918	0.7390704	4.6295781	4.3742744	2.5893800	1.4183519	
## 12	5.5070779	2.5406225	0.4548076	1.0785415	2.5406225	0.4548076	
## 13	1.7257848	11.4555484	0.0000000	2.4893374	5.0171826	0.0000000	
## 14	7.3563956	0.7400209	2.3280897	6.3786001	3.0656929	2.3280897	
## 15	2.4026130	0.4407396	9.3312401	2.5854914	0.0000000	1.9480027	
## 16	5.5160877	0.0000000	2.9858647	3.0675527	6.4324834	6.1619784	
## 17	4.9393347	0.5039593	0.8766446	8.0946029	6.2684157	0.8766446	
## 18	3.9550710	0.0000000	10.7609276	7.3210640	6.7434530	0.0000000	
## 19	5.0103994	7.9288955	1.7190520	6.9943421	4.2299493	1.1017173	

## 20	0.8970080	0.0000000	0.3644604	4.3974402	0.6551686	1.7221162
## 21	2.8986921	1.1445685	0.0000000	0.8537562	1.1445685	1.9354975
## 22	0.0000000	5.0318054	0.4976379	4.1818897	7.1649481	0.0000000
## 23	0.0000000	0.5566992	0.5566992	2.7334411	0.5566992	0.0000000
## 24	5.7608836	6.4692234	5.8923813	3.9804549	2.9360443	0.0000000
## 25	6.6059239	0.0000000	0.0000000	7.0573864	0.9762170	0.9762170
## 26	4.7598056	0.6158871	1.6461627	4.5381843	0.3405053	1.7639214
## 27	8.3115871	1.2837440	2.5901229	2.0800095	0.4422269	0.4422269
## 28	1.1657512	3.5062338	0.0000000	2.2420232	1.8019864	0.5002922
## 29	3.4521737	0.0000000	6.0464278	10.9619518	1.4895943	1.7701525
## 30	10.4113253	1.0803166	4.8511444	9.5066735	3.5112403	1.0803166
## 31	4.7022087	1.1322478	8.7445866	2.6241711	0.4826418	0.0000000
## 32	5.5208088	0.4339209	8.5386825	9.5881294	0.7670615	1.0374525
## 33	8.9235976	2.1834230	9.4304178	6.9240904	1.0445340	5.7865362
## 34	8.6899857	0.9074291	2.9197977	6.2757502	3.8651963	3.2201287
## 35	6.3933287	0.0000000	0.0000000	1.6759965	0.4498519	6.0311768
## 36	4.2453435	6.1088192	1.4388251	7.3328708	7.2315937	0.5137939
## 37	3.9265498	0.8960781	1.1962293	4.8135298	7.2650955	5.1988752
## 38	0.6439485	0.6439485	0.0000000	6.1910671	5.6744889	0.0000000
## 39	3.7316612	4.7950552	1.8609231	1.2117598	0.5247658	0.5247658
## 40	3.5357171	9.5461770	2.9530231	9.1577446	1.8355199	1.5493242
## 41	0.7270927	6.8457572	5.2734972	4.2274561	9.0232592	0.4088205
## 42	2.8810968	7.2859404	1.0865120	1.8567069	0.8066128	7.1441616
## 43	0.9196833	4.5690900	4.3965979	4.0142035	9.2011582	0.0000000
## 44	6.5373302	0.7004397	3.3310172	5.5311007	8.8020229	0.0000000
## 45	2.5559143	1.3010608	3.7225862	6.9672147	2.7774723	0.0000000
## 46	5.6082090	2.2163928	1.4975868	7.9361291	3.6213603	0.0000000
## 47	6.6719642	2.2102642	1.7733212	6.8745044	2.8167840	0.0000000
## 48	4.0779180	0.9004128	1.2894804	7.1284099	6.1301113	2.4149744
## 49	4.3275005	0.3614315	5.9191088	5.2929032	1.0969365	0.0000000
## 50	4.4338675	1.1942762	2.4618428	8.8171717	2.0775506	0.7173858
## 51	0.7081431	1.1810389	2.7448930	2.9768402	5.0165320	0.0000000

## 52	1.5158638	0.0000000	6.8878701	8.4966085	1.0445340	3.0770550
## 53	3.2527184	0.4093638	0.0000000	2.9189205	0.4093638	0.9887029
## 54	5.2574105	1.4718638	0.7735744	2.7390488	1.2744704	0.0000000
## 55	4.4704588	1.1326426	1.3166092	8.9790779	1.6262522	2.9182526
## 56	0.0000000	9.5238569	0.0000000	4.5323170	3.2545185	0.0000000
## 57	8.9368829	2.7611576	3.9152627	6.7847644	1.4885664	1.8190550
## 58	7.6571319	3.7194792	1.1898562	8.0622604	3.9462630	1.1898562
## 59	0.6681191	10.5419338	3.6758046	4.6008228	8.2198868	0.0000000
## 60	4.7918557	0.0000000	1.2317396	8.1512353	0.0000000	0.0000000
## 61	5.0557380	0.6858953	2.9999820	4.7478868	0.9358369	0.0000000
## 62	8.3443474	0.0000000	2.9122091	6.4632611	0.3748447	2.2801546
## 63	3.2728593	0.3457370	1.6628435	7.4975884	1.0588014	0.0000000
## 64	6.9087649	0.4994760	3.2762733	2.1076544	1.6176276	1.4086575
## 65	1.2476238	3.3710570	0.3503841	5.0554343	4.0107082	0.0000000
## 66	3.7950500	0.0000000	4.8557306	1.4029404	0.0000000	0.0000000
## 67	5.6733699	2.6637772	4.8253582	10.7764895	4.8589110	0.0000000
## 68	6.4196400	1.1662013	6.9954608	7.7405768	3.0815442	0.0000000
## 69	6.5556735	1.8942939	7.7127760	7.0715932	3.5691994	2.5249162
## 70	0.7562547	0.0000000	0.7562547	6.7441046	1.4450380	1.0240359
## 71	2.7515708	0.2875905	1.0723116	6.8698369	3.5883009	1.3470420
## 72	7.6775921	1.3352546	0.8168864	4.6218468	1.0992279	0.0000000
## 73	5.5576061	7.2199565	3.2477149	1.9804641	5.3905198	0.0000000
## 74	6.2432273	1.1133671	5.6059150	11.4348077	1.1133671	1.2953116
## 75	8.6267520	2.2658869	4.0766446	9.6759290	4.7734267	4.2551381
## 76	1.7068178	0.8113066	0.0000000	7.4779468	1.0923428	0.0000000
## 77	10.6335188	1.8261112	7.8778418	1.8261112	0.5937840	0.0000000
## 78	1.0028825	7.8344224	2.5072619	5.9581003	8.3515396	0.0000000
## 79	8.9567429	2.0330882	6.0090358	1.0221192	0.5997939	0.0000000
## 80	0.0000000	7.5751792	3.5312692	2.5544906	8.5068038	0.0000000
## 81	8.6318519	2.7771146	7.7753831	8.0186859	3.2901590	1.3008266
## 82	9.6524361	1.8852620	7.2467463	6.6931273	2.8652260	0.0000000
## 83	3.8879249	0.0000000	1.0439744	3.5050144	1.7609448	4.2717992

## 84	2.5108860	2.0472592	6.6693571	6.3702201	1.9531162	0.3346827
## 85	2.1108643	1.2528395	0.0000000	5.5756633	2.9333838	0.0000000
## 86	7.9787791	0.7556567	4.2575840	9.1027870	5.8783502	0.9395275
## 87	7.1407684	0.9937830	5.4141051	8.8081295	2.3119681	0.0000000
## 88	1.8007032	1.5787455	0.5818815	1.9929859	0.5818815	0.0000000
## 89	3.5050017	4.9649022	0.0000000	11.9966162	5.3042664	0.0000000
## 90	2.2629142	0.3257318	0.3257318	7.7230766	0.3257318	2.4749811
## 91	3.0305127	0.0000000	0.0000000	7.5117993	3.8703647	2.8268840
## 92	2.6741894	0.3774014	1.1350094	8.3956391	0.9237957	0.6763577
## 93	4.2447729	0.4209405	1.8916914	7.1088036	1.0118534	0.7464848
## 94	5.7005202	1.5877010	2.5536308	2.8686275	3.0291525	6.1995310
## 95	7.5347262	2.4376272	0.6343145	9.3294039	0.3517414	0.0000000
## 96	0.9121900	0.5270703	0.0000000	7.7552521	3.3590010	1.2159270
## 97	0.3774014	10.6561917	6.0089238	2.2891262	4.1735672	0.0000000
## 98	2.2633349	0.7579620	0.4281424	7.5699444	0.7579620	0.0000000
## 99	1.9486382	0.3981314	0.0000000	7.1601649	1.8246864	1.8246864
## 100	5.6756409	0.0000000	7.8045454	6.9230505	5.9409020	0.0000000
## 101	2.4386388	0.3335382	0.0000000	5.2153214	0.3335382	3.1798932
## 102	3.1043367	0.0000000	4.8579810	6.7806251	9.3650101	0.0000000
## 103	4.0962534	0.0000000	5.0191948	9.5263545	0.0000000	6.4933095
## 104	2.2831217	5.3921079	0.0000000	1.3487423	0.8265993	2.5915837
## 105	6.0187566	0.7869309	9.0167724	6.3338513	0.3124328	1.2933116
## 106	4.4347350	0.3923174	4.5925647	5.6210643	6.1242330	0.0000000
## 107	7.2467539	0.4455148	1.4901080	0.7854250	3.7335387	2.6841904
## 108	1.7317915	1.4547023	0.9034240	7.8331494	3.1897929	0.0000000
## 109	4.4553404	1.6903724	2.1902672	5.4971429	0.9191494	0.0000000
## 110	0.9985566	0.0000000	0.4143521	6.1670829	7.5154586	9.5732906
## 111	2.1666512	0.3975839	0.3975839	2.4440309	6.0794720	1.3708896
## 112	5.2347772	0.8742855	3.7983202	8.7001779	3.7983202	0.0000000
## 113	0.0000000	0.0000000	0.0000000	6.8065419	0.4875892	1.5900031
## 114	4.3669446	1.4135399	9.1972740	3.5003049	5.5212110	0.7360420
## 115	5.0102920	6.4899748	0.0000000	0.6786128	6.8766225	5.3867454

## 116	4.1676229	5.2922443	0.0000000	7.2078997	1.5647196	0.0000000
## 117	6.0942255	0.0000000	0.5749250	2.2977197	6.9443220	3.9488905
## 118	0.7000845	2.0436945	0.0000000	2.4255399	1.8066953	6.9692115
## 119	6.3058028	0.0000000	1.4398890	5.0532678	0.0000000	1.4398890
## 120	0.3405053	0.0000000	0.0000000	9.1042627	0.6156988	0.6156988
## 121	4.7456084	0.5391340	2.2093910	9.5580730	2.8764678	1.8947596
## 122	5.0155689	2.9938736	5.1908874	8.2887452	4.7614289	0.0000000
## 123	3.2030758	0.0000000	1.8066953	8.2372845	2.4013574	1.4774701
## 124	3.2586094	3.0072134	0.0000000	1.7860526	3.4726177	4.7059503
## 125	1.0008654	0.8487982	0.0000000	6.4712086	0.4859420	1.4865599
## 126	2.4956696	0.0000000	0.0000000	4.6463355	0.5077185	0.0000000
## 127	0.0000000	0.0000000	0.0000000	5.4605362	0.0000000	0.0000000
## 128	2.0588706	1.2865263	0.6559929	4.5159143	5.3169748	0.0000000
## 129	4.1852798	1.8139351	0.0000000	0.0000000	0.0000000	4.0457313
## 130	8.8022265	0.0000000	0.4997821	0.8701871	3.0066930	10.2295728
## 131	8.1570422	0.7771988	0.0000000	8.7808120	0.7771988	0.0000000
## 132	7.5151676	1.2052048	1.8525982	8.0099573	2.1641426	0.0000000
## 133	2.7843574	1.5671073	0.4777809	3.5841568	6.4097371	1.5671073
## 134	2.9293176	1.1396005	0.9278206	8.4409825	2.2046416	0.6795139
## 135	6.7951708	0.6883147	0.0000000	4.2177115	0.9390008	2.3144935
## 136	5.0840685	1.4383461	1.9973647	8.2814845	5.0472330	0.0000000
## 137	1.9264170	0.7657893	0.7657893	4.5489914	6.8690867	0.0000000
## 138	0.3650206	11.5897437	7.5469431	1.4476321	8.0119339	0.0000000
## 139	2.9220836	1.6292400	2.8640177	3.7301726	0.3775125	0.0000000
## 140	1.1759397	0.8793921	0.5056877	5.8180222	0.8793921	4.5903505
## 141	1.7720968	6.5232844	4.3733837	7.5841936	0.0000000	1.1425441
## 142	1.7827021	7.4337799	0.4315695	6.5175040	6.7033319	0.0000000
## 143	1.2884176	4.0451022	0.4443490	9.3740179	5.9944349	0.0000000
## 144	5.3451338	0.0000000	0.9268344	4.3068819	6.1092205	1.2337040
## 145	0.8990209	3.5081244	1.7251304	5.7572180	7.6348219	0.0000000
## 146	4.0463252	0.9565771	0.9565771	1.2696915	7.7795263	0.0000000
## 147	2.8594727	0.0000000	9.6480431	8.1062981	0.0000000	0.0000000

## 148	1.4857875	4.0005409	4.4987998	4.2021826	0.6782522	1.1378314
## 149	5.9723411	0.4564908	9.4504145	0.8027309	2.9447648	0.0000000
## 150	3.2158494	5.0144446	7.0821512	6.5788934	4.2451990	0.0000000
## 151	4.8123082	1.1802752	2.0139267	8.3626965	1.4712915	8.7215514
## 152	1.1670367	0.5010060	1.1670367	0.0000000	0.8720801	0.0000000
## 153	5.1524065	0.0000000	0.0000000	2.5832302	2.4876664	7.7983325
## 154	2.8835426	5.0948188	5.2235616	6.8476099	8.2112790	0.0000000
## 155	6.8695519	0.0000000	0.3472121	2.4922378	2.2660369	2.1820248
## 156	4.4211156	0.9973285	0.0000000	3.0827026	3.4545181	0.5831339
##	rs_ONECUT2	rs_DCX	rs_RGS22	rs_GJB1	rs_C1orf173	rs_RBM24
## 1	3.0501360	8.0281326	4.4588938	5.9200098	5.2419431	10.4689318
## 2	2.2052361	2.2052361	8.3991463	3.2731727	0.7843365	2.5983890
## 3	4.1559678	3.0558898	4.2139927	3.5370599	2.6138145	8.3910506
## 4	2.2112926	1.9350825	8.1071396	2.4429966	3.6201172	7.3359691
## 5	2.5246655	0.4815056	5.2571049	5.7678269	8.2445917	8.4546756
## 6	3.2170446	6.1606661	1.6204457	3.1342374	1.8453495	4.2980864
## 7	6.4365467	7.9951781	2.4925711	3.6518668	2.7623063	4.2574406
## 8	4.1163315	10.6355786	0.7617108	3.2242873	1.6259250	1.9191112
## 9	5.7822251	1.0279325	0.0000000	5.5135255	0.0000000	1.8470749
## 10	0.4930324	1.6026944	7.8554721	1.1519887	1.7842946	8.5254750
## 11	3.9118354	4.7599920	10.5130906	1.8783330	5.2656882	7.9594746
## 12	8.3423992	3.7657363	5.9578310	0.8001648	3.0726032	8.2329087
## 13	0.9433588	2.8073137	0.9433588	0.9433588	0.9433588	6.3856416
## 14	1.5900990	2.6694577	8.1557406	5.7172268	4.1502347	6.6847725
## 15	0.4407396	1.8078083	8.0501011	6.4740531	7.2760993	6.9490061
## 16	0.9432837	0.0000000	7.7459055	3.4792694	6.1526519	9.0976079
## 17	0.8766446	3.3501153	2.2517191	0.5039593	1.6277469	7.3017029
## 18	2.9768952	1.5405729	2.9768952	5.0308437	9.0347500	12.0660053
## 19	2.1500072	5.1332676	8.6474307	5.3413027	5.4493171	3.5001647
## 20	5.9117850	7.3747456	2.4089835	0.0000000	5.5803204	4.0954434
## 21	5.3701364	0.8537562	3.0469625	9.7787489	0.0000000	2.2117287
## 22	0.0000000	3.8670464	0.4976379	0.0000000	1.1606621	3.1416617

## 23	10.6832750	6.0439438	1.2705887	6.0336102	0.0000000	7.3019360
## 24	4.5574530	3.1908677	1.3094673	0.7984238	2.2314939	5.4184194
## 25	0.0000000	2.9580817	9.6126468	3.8621340	6.5524124	2.8969499
## 26	1.6461627	6.5736699	2.2410775	2.5341612	6.4863974	12.1335875
## 27	1.2837440	2.8273313	4.5822850	3.5111770	4.4464812	10.5291238
## 28	6.5586381	3.1498447	4.4413108	1.8019864	1.6194130	7.4655770
## 29	2.6835617	4.0329119	9.4131322	3.5666812	7.4226375	7.2448728
## 30	5.4130727	6.5121605	3.3097728	6.3175790	7.9949745	7.1210164
## 31	1.7587296	0.0000000	4.8879103	2.1940871	4.9996348	11.1982173
## 32	0.0000000	1.0374525	2.8710156	1.6347327	6.9722492	5.0867201
## 33	1.9388127	4.8747281	5.8140479	5.0391823	8.8678060	6.6667878
## 34	5.1884049	1.8587767	5.7542782	4.1759477	6.5450695	7.8833386
## 35	9.0300350	1.6759965	2.8520588	4.6098436	2.3290949	2.9913359
## 36	2.8907191	6.8211183	1.8345494	4.9909004	4.6412397	3.3800090
## 37	3.3276874	3.6079102	5.8535741	10.1284860	3.0562540	3.1290522
## 38	5.4328358	0.0000000	6.4065044	5.8252565	3.5120246	3.0058850
## 39	6.9369594	1.6751836	3.0035303	7.8483356	6.6957447	1.4620000
## 40	4.8549083	3.0679828	6.1433383	1.6995072	2.3714752	4.7382490
## 41	7.8518028	0.9876119	0.4088205	1.7196216	0.7270927	0.9876119
## 42	1.6991962	0.4589069	1.9986649	8.5728150	1.9986649	2.5531147
## 43	2.9425145	4.2006456	3.5484366	3.3733002	0.9196833	3.9323069
## 44	7.3642467	3.5392581	6.5470056	2.3399355	2.3399355	7.6712106
## 45	5.0746296	4.3929905	7.9792371	4.4901786	4.9661859	6.2784067
## 46	0.7903550	3.2309408	9.4425531	5.0955236	5.9350000	3.1737831
## 47	5.1725875	0.6822137	7.4321660	1.1435240	2.6180272	4.4894851
## 48	2.2495364	4.2844993	2.6321984	5.7894111	2.9878484	3.8367422
## 49	0.6503050	0.3614315	9.8362948	4.2213976	6.2672567	9.5695270
## 50	3.7952994	2.0775506	4.8590552	0.4028313	7.3488149	8.0833788
## 51	6.6690339	3.0509718	1.1810389	1.9454953	0.3971458	3.2562710
## 52	1.0445340	1.7617533	6.0750769	0.8455904	7.6225497	8.9408589
## 53	8.3142855	4.3004093	4.4378070	7.1170498	0.0000000	3.8533670
## 54	2.5769332	0.0000000	6.6020218	3.4506834	5.5582584	8.1520769

## 55	2.4521473	3.6922152	7.2994782	4.8443907	9.9512387	10.7899647
## 56	4.2089776	0.0000000	0.0000000	1.1508846	0.0000000	1.3935809
## 57	2.7611576	6.7146508	4.5028907	8.3586930	3.2184557	6.1439280
## 58	3.0085048	5.6896514	4.7859533	3.8210673	5.8098594	8.0214198
## 59	7.9112200	3.4220177	1.4683226	1.3059705	4.0280298	6.0137191
## 60	0.6223682	2.6145685	5.8888991	6.5880550	2.3350258	8.6376247
## 61	8.2340208	9.6687152	5.9368782	1.6463470	8.1390908	9.7672332
## 62	8.4337169	1.6215244	4.1388145	1.6215244	3.6176629	3.5090624
## 63	5.3885650	1.6628435	7.2566267	4.6022252	1.0588014	8.5703161
## 64	1.6176276	5.0562107	7.1920097	5.6506095	8.4621980	9.0792861
## 65	6.4840785	5.5768909	1.5480913	0.6320820	1.2476238	3.4816993
## 66	6.9516554	1.2450697	2.7560412	3.0224921	7.6277505	8.3157972
## 67	2.2231445	7.5426991	3.5858399	6.0233152	6.1973465	6.6591639
## 68	1.6678467	3.2324152	7.1954667	2.7886857	6.8744675	10.1032153
## 69	1.3702201	4.4780787	4.9278206	2.6858953	5.0804487	8.3900210
## 70	2.7032558	0.4270698	6.2303049	0.4270698	1.9093507	7.6961517
## 71	5.8500693	2.6538167	6.8759459	0.9124199	1.2161755	8.7613883
## 72	4.0869451	1.0992279	5.7530750	4.7078174	1.7158055	8.2193123
## 73	6.4517221	0.8258670	4.2303414	0.0000000	2.4270966	4.1489016
## 74	6.1517553	0.9050428	8.5543099	0.0000000	4.5482332	11.5264050
## 75	2.4447731	5.4442596	5.3236439	6.2762715	7.3108654	6.1847960
## 76	8.8721864	3.4345882	6.8356487	0.0000000	6.8116162	9.8197427
## 77	3.1106138	3.8823985	8.3184438	1.6025044	2.7226409	5.6839013
## 78	3.3744553	5.0056021	2.0043216	1.8786861	0.7392433	3.0050586
## 79	1.0221192	2.0330882	8.3175989	0.0000000	2.0330882	4.8237290
## 80	4.3857416	2.3397645	0.8579014	0.4918018	0.8579014	3.0551783
## 81	2.4305797	5.8959763	7.6756297	5.2323691	5.5200010	6.1047120
## 82	2.6754546	5.6679716	6.6013013	5.7783164	4.6580915	5.3403842
## 83	3.0760460	2.2377167	8.0360708	6.5815079	4.1258742	5.6995766
## 84	5.6312207	1.3598585	8.7198221	4.8548584	6.7130964	5.2994352
## 85	2.4398890	9.0237602	3.0342685	1.0748479	0.6353365	4.2037806
## 86	2.2238550	0.0000000	4.8112963	1.9938555	0.5448810	9.5351513

## 87	0.0000000	1.2153058	5.2732734	2.9891208	5.8704066	10.4033014
## 88	8.6291121	0.9953036	5.0994509	4.3486644	1.8007032	2.1626612
## 89	5.5662550	0.0000000	4.3838978	9.2628325	5.1275507	1.9630672
## 90	4.9490866	2.2629142	10.4832465	10.6128152	6.9903627	1.8209346
## 91	1.0535979	0.0000000	4.5154854	3.9053028	0.0000000	2.5011079
## 92	8.0517750	0.3774014	3.6961830	3.5927082	0.6763577	4.3741214
## 93	6.2131392	0.0000000	4.6275368	3.0797194	7.5729753	11.3464942
## 94	0.3634515	3.6058262	4.3155083	3.8546939	5.8224089	4.8901208
## 95	4.4583164	4.2438214	5.0812928	2.2825288	2.7650891	7.2792428
## 96	6.4354169	0.0000000	3.2293264	5.0334010	0.0000000	4.6329719
## 97	5.4116635	0.0000000	4.0999937	4.8927844	1.3191555	3.7612640
## 98	2.0391033	1.9123816	6.6008168	3.8207508	1.7734900	6.7332255
## 99	8.0081770	2.5277710	4.6707101	4.1049405	1.6890755	5.7482680
## 100	0.5765705	3.6206099	6.9635967	4.7305421	3.1474695	10.8831166
## 101	9.3012881	0.3335382	0.6042611	6.6563534	1.6232114	1.4959509
## 102	3.0356239	4.3923174	3.9448584	1.7655347	6.8404632	10.4481163
## 103	0.3330802	0.0000000	5.2921118	2.9547919	5.8223325	6.1204224
## 104	6.7617148	0.8265993	2.2831217	7.7184329	0.4716557	5.3101038
## 105	6.5449011	1.2933116	1.6673472	0.0000000	5.9010962	8.8185493
## 106	1.6725159	0.9542708	5.2901295	2.6583029	7.0022232	10.1234258
## 107	0.0000000	0.4455148	7.9100173	8.8091691	6.3065503	8.8207591
## 108	2.4963856	2.5687375	7.7780666	6.7903081	9.3361475	5.9391208
## 109	3.4913529	1.8769196	4.4553404	2.7636878	1.4760706	3.0228472
## 110	8.2355318	1.9978343	5.8384703	8.4849654	0.9985566	3.8717845
## 111	10.0725680	6.7409883	1.1820566	8.3869674	2.7464633	2.4440309
## 112	2.1151331	5.7961383	6.9576221	1.9693071	4.9730234	8.4359152
## 113	0.0000000	0.4875892	5.5119771	6.1075498	3.1766100	3.7935734
## 114	8.3029071	0.0000000	6.8761793	3.4128628	5.2071159	7.2706317
## 115	8.2830397	2.2026998	1.1382247	7.0170289	1.4863025	1.1382247
## 116	1.9772066	2.0921059	8.7801864	0.9848445	6.4723854	2.9733909
## 117	0.5749250	8.5243345	4.9248505	0.7944367	0.9849174	7.3513907
## 118	0.0000000	0.0000000	2.4255399	5.0918817	0.0000000	1.5229597

## 119	2.6963277	6.0161843	4.6818203	4.9610676	7.5550093	6.0313776
## 120	6.5323544	0.0000000	10.9065539	10.0310104	3.2903654	3.1675346
## 121	5.4756686	4.8399243	4.6446927	1.8947596	1.7073039	5.9045684
## 122	5.8610025	2.6379580	9.4846483	4.6255394	7.3108945	7.4351402
## 123	3.0247452	0.0000000	8.4441158	4.0310069	6.3002793	7.0903517
## 124	8.8372558	0.9398284	1.7860526	11.0875187	0.0000000	1.6519587
## 125	6.2834088	2.9274983	4.9371372	2.0716940	2.4343747	3.4075567
## 126	0.8825257	8.2412315	7.9625756	6.3498818	1.8199951	2.4956696
## 127	4.1756204	0.4390380	8.3786061	8.3395409	3.0202355	3.3061601
## 128	8.1081010	3.2684643	7.2654810	9.1294118	4.0483408	7.3314329
## 129	0.0000000	1.9764736	5.4656839	0.5051796	1.9764736	5.4240184
## 130	6.8434349	0.0000000	0.4997821	6.1404433	1.6181447	1.6181447
## 131	1.6513617	5.1545387	1.9467683	0.0000000	1.0501186	0.0000000
## 132	5.0151452	3.6726064	2.9934751	5.3281220	8.6567892	9.3991604
## 133	4.6409506	0.8360857	3.8428783	1.9062364	2.7843574	3.2086733
## 134	6.6037020	1.1396005	4.7478492	8.5789791	4.6647445	4.5209376
## 135	4.3834693	2.0204844	7.4782907	2.9496843	1.1524430	3.7255994
## 136	0.5134907	1.6497074	10.4104332	2.9709457	4.5643355	2.1441443
## 137	5.9026404	6.0394872	8.5492048	3.1784278	6.3430898	5.6644800
## 138	8.0183565	2.4872291	0.6561760	1.5923972	0.0000000	1.7239953
## 139	7.4688236	0.0000000	4.0225720	3.9406460	4.8183904	8.6746379
## 140	7.6346876	0.8793921	7.2728854	4.7786502	6.9975657	4.9647082
## 141	1.5911528	2.6400424	2.3293533	7.2927551	2.5437186	2.0774481
## 142	5.4557349	0.4315695	1.2598449	7.4279489	2.4680098	7.3804360
## 143	5.4448327	9.1884756	0.0000000	4.5680990	0.0000000	2.2036710
## 144	3.1142671	0.0000000	2.9557406	5.3767662	0.0000000	0.9268344
## 145	5.2658419	6.8034169	0.3654686	2.6296597	1.4486896	4.4622814
## 146	4.7479352	1.7449361	6.5780888	4.0463252	8.1882758	5.9244942
## 147	4.0727661	4.1039843	8.9533491	4.1345413	3.2977930	7.8242415
## 148	8.4099666	5.4665390	4.6444101	1.1378314	0.0000000	3.6328033
## 149	1.0817487	2.2393980	6.8855988	10.0931287	4.3472546	9.1949870
## 150	0.5465611	0.0000000	0.0000000	10.2014089	2.8969693	0.5465611

## 151	2.4073528	6.9638521	3.5405109	4.0835453	6.2519311	7.2156485
## 152	8.8434123	5.2460052	2.6774180	6.3640751	0.5010060	5.3670425
## 153	6.2604040	0.0000000	0.4689482	2.6728553	1.1058122	1.3426685
## 154	0.9685700	9.0205391	2.0668814	5.1861321	3.3119971	5.2838662
## 155	5.0374305	4.7616044	2.8598503	0.8610819	1.2392147	8.5846213
## 156	8.0741051	0.0000000	3.7498882	0.9973285	1.9959548	4.3871764
##	rs_TRPV6	rs_ATP13A4	rs_AKR7A3	rs_C19orf33	rs_KRT4	rs_DES
## 1	4.6919473	2.2796496	10.4931478	10.7946910	0.8928184	2.1463945
## 2	5.0506149	11.2221556	2.6819664	9.4265654	2.5983890	1.8188915
## 3	4.6094654	2.7766936	8.8975524	10.1313189	1.3005338	10.0104619
## 4	2.4429966	1.5931625	10.4971296	10.1012884	0.4889263	1.7742494
## 5	5.6012092	3.6877214	10.6077275	7.9883876	1.3700527	2.7107899
## 6	9.9014616	8.7216522	4.6654837	8.0794960	0.6028369	9.1349481
## 7	8.2411785	2.8420737	3.3583541	5.3109399	1.1090262	5.4144941
## 8	9.2703766	3.3278454	2.8598106	1.6988408	0.0000000	5.8412964
## 9	7.2885874	2.5048492	5.7822251	4.7882681	1.0279325	4.2222327
## 10	1.3948982	1.7842946	11.1301682	10.3894967	0.0000000	1.7842946
## 11	8.8381781	5.2656882	9.7518078	3.9159989	5.1206257	7.1617668
## 12	6.9418364	1.8457911	5.0711105	6.9223941	0.0000000	3.5544292
## 13	7.5610122	4.2824991	4.7465922	4.4194850	9.5596893	2.0808623
## 14	7.9085493	4.2552363	9.8316045	10.1573113	0.0000000	5.9064385
## 15	5.5791379	4.4878786	9.1579901	3.7285192	0.0000000	3.4124022
## 16	6.4554242	6.6862806	6.7618424	4.5467031	0.0000000	0.9432837
## 17	2.6858953	4.8162874	6.7991896	7.4505283	10.4028445	5.6771474
## 18	1.3375969	3.4498915	9.2336022	9.2580277	0.4665488	10.7184034
## 19	7.0024573	6.5027618	8.6890891	5.6461425	3.7662983	3.0291348
## 20	4.6519931	4.4953626	7.6574321	11.0535480	2.6260185	1.1040682
## 21	10.4032719	9.1240099	8.3905030	1.8379029	2.8184211	2.7334194
## 22	7.2454709	3.4442297	4.1607831	6.1690331	0.8668684	3.5494720
## 23	11.2887307	3.0931883	11.5168093	0.0000000	0.5566992	4.5893081
## 24	10.2230774	1.3094673	3.0690663	4.5311693	0.4537546	3.6390122
## 25	7.6869354	5.5479526	9.6108634	9.7461693	1.3852101	0.4031586

## 26	5.4810567	2.3201092	8.8555067	9.3915308	0.0000000	1.7639214
## 27	6.9250084	5.3253900	10.5336690	7.9749617	2.3061164	6.4263855
## 28	6.2085446	2.3631991	1.9640659	2.0167102	0.0000000	3.8343269
## 29	2.0048968	1.1410403	10.3082312	8.3694700	0.6805044	2.3837734
## 30	7.5846153	6.7842763	8.2954439	6.0122558	0.0000000	6.3040766
## 31	1.1322478	4.7668019	10.2801408	9.5468252	10.7336701	3.5999485
## 32	3.8761928	5.1873956	8.3105728	9.6161619	0.0000000	4.7149708
## 33	6.7064767	7.2966116	7.1423757	7.6675849	0.7727302	8.4123984
## 34	7.8833386	7.1271339	10.3311581	5.5603023	0.5238630	5.0038630
## 35	10.8781146	9.1482490	5.1602869	8.2742551	0.7922723	6.9535190
## 36	9.2356811	5.4661018	6.4845684	7.0453043	3.6495695	3.1209657
## 37	5.5826192	7.6460993	10.7357774	9.1267445	0.0000000	4.0060017
## 38	7.0237078	0.8827604	9.8525879	5.9097035	3.3622174	4.0663734
## 39	8.2021645	7.3477560	9.6205837	3.6315350	2.0254187	1.4620000
## 40	6.9277187	3.4952091	4.5729079	10.6419160	11.4508659	6.2199216
## 41	10.2952471	3.2996110	4.8988372	1.1959145	0.9876119	4.1729435
## 42	9.4898217	8.3541237	8.1750195	0.4589069	7.4860667	5.8184262
## 43	11.2556471	5.4528524	5.6321402	7.8332260	4.5138507	6.6815842
## 44	5.7415775	9.0278457	6.1242330	4.5831881	0.0000000	4.6111311
## 45	5.7470812	4.2522945	3.2167187	9.5141513	0.0000000	4.0546228
## 46	6.4800195	3.3899797	10.0545502	10.2983879	2.2163928	3.4870361
## 47	2.1128002	4.5465858	6.0961838	2.1318199	1.1435240	3.2878564
## 48	8.0436988	6.2824342	7.9490580	7.1059253	4.8003822	5.7742600
## 49	1.4374408	8.0245657	7.7978314	8.4876616	0.8907969	3.0212132
## 50	2.5438175	2.4618428	7.8475335	8.6030013	4.1496252	6.2179267
## 51	3.1051081	5.3880001	3.2076274	4.5764012	4.9589076	4.3227502
## 52	2.0662959	7.3063306	8.3270505	8.6563298	0.0000000	1.8705423
## 53	8.4368327	8.8426030	9.5920752	2.9638995	1.5698799	2.5661089
## 54	4.4549194	1.4718638	8.8289209	7.2715022	4.1722315	3.8203219
## 55	3.5154223	8.7231018	6.2103713	3.4850146	0.9218171	3.2246886
## 56	10.7026764	4.7350130	6.4604592	2.2119467	3.1259651	3.1259651
## 57	9.6208833	8.6034164	8.1396752	6.9356754	3.0398929	8.1905072

## 58	7.6082319	6.1722075	7.7416119	7.5077011	1.3794546	8.7087187
## 59	8.1750200	3.8626398	4.9283608	3.6520046	4.3940957	8.7305805
## 60	5.8285554	1.2317396	10.2511505	8.2166178	1.3885753	3.5592715
## 61	5.0155823	3.2512040	8.7688880	4.2144124	0.0000000	6.2910049
## 62	2.7306617	5.3172136	7.5101090	1.6894781	0.0000000	3.1717352
## 63	4.3187579	1.3922075	11.5817241	7.4045685	0.0000000	3.3127233
## 64	7.0001916	7.0949264	7.1208890	4.7167605	0.0000000	4.8018209
## 65	4.9652533	1.6777112	2.5724289	3.5618027	7.0306727	3.2512343
## 66	6.3883290	2.2740827	12.6949384	5.2207904	0.3494785	0.3494785
## 67	8.0233263	6.9896397	6.6399918	6.4593447	0.4153260	4.3228439
## 68	5.9315152	3.4533332	10.9489502	9.0954242	0.0000000	5.6026142
## 69	6.9927537	5.1556966	6.8414385	7.1998814	0.2944296	7.6685000
## 70	3.1577713	8.8080629	8.5802823	8.7827794	1.2498700	1.4450380
## 71	3.0493345	6.6088595	9.2911622	3.1634826	5.0435457	4.6588456
## 72	3.6350811	1.7158055	9.4963525	9.5221056	0.4655044	4.8092755
## 73	4.4158330	1.7302269	1.7302269	2.2185952	0.0000000	8.8444421
## 74	2.1668440	1.2953116	10.4981681	6.8799165	0.0000000	3.0481839
## 75	8.0102506	6.7203387	8.9419094	6.9791325	7.3590871	10.2235229
## 76	3.9033854	1.5295711	11.1077850	8.8309110	1.0923428	0.4619476
## 77	2.1903620	3.6089984	1.8261112	4.4633020	7.9449609	7.5058401
## 78	9.6687402	3.3271268	3.8798626	4.5139581	3.8127241	6.3094909
## 79	1.6144272	3.4994377	2.4954905	4.2420461	8.3430138	8.2750206
## 80	9.1785411	5.9620515	3.8886264	7.3385768	6.2584435	7.5535057
## 81	6.9649323	5.2693399	5.8232500	5.0303008	0.0000000	9.3783328
## 82	8.1673384	8.1028213	4.9992514	5.2027507	0.5350576	7.8170943
## 83	4.4748967	8.9169146	7.2049203	2.9019964	4.1258742	2.2377167
## 84	5.0607392	5.5691022	9.2293396	8.6421506	0.8345494	2.2189051
## 85	7.8265663	1.9131479	3.1285409	4.9658628	5.0721830	6.0324028
## 86	0.2980717	0.2980717	12.4379414	7.7481130	0.0000000	0.0000000
## 87	3.2112770	0.9937830	10.4089233	10.2594866	2.9277827	7.7380362
## 88	5.9680815	1.8007032	8.3438284	9.8149855	0.0000000	3.1616136
## 89	7.1179288	5.3042664	8.3745314	5.7410840	0.0000000	1.9630672

## 90	3.7989629	1.0094905	10.5105589	5.8577173	0.0000000	1.0094905
## 91	8.0355359	2.7520635	10.4498024	9.1182572	4.6243583	5.7566390
## 92	1.8841681	8.7586137	9.8538430	6.1498081	1.1350094	2.2891262
## 93	6.6478901	1.2359721	10.6160782	10.0649538	0.0000000	0.7464848
## 94	7.1260013	3.0291525	9.5217916	8.9592714	2.9776096	7.3803831
## 95	6.4769211	1.6819889	3.2979104	2.7819891	0.0000000	2.1982427
## 96	4.5539318	5.8329558	2.6534270	4.7122876	0.0000000	1.2159270
## 97	6.3101456	4.9215411	7.3547290	0.0000000	0.0000000	3.6280270
## 98	2.3635916	2.0391033	9.4012849	10.5640270	0.4281424	3.6722443
## 99	8.1569446	1.6890755	11.7775236	5.2211385	1.1834548	2.5277710
## 100	2.8850081	0.0000000	3.3694525	7.1735752	0.0000000	3.0651759
## 101	6.2608292	2.9564284	10.1213702	8.1060824	0.8320393	1.9489372
## 102	6.5999128	0.8479969	10.3804611	9.7491320	0.0000000	2.3219281
## 103	0.8312287	0.3330802	7.8014038	8.9950000	0.0000000	2.4371212
## 104	10.3686011	8.6759761	8.1755126	3.4100290	0.4716557	2.8455503
## 105	1.8718042	0.3124328	10.6599736	9.4831860	0.0000000	1.4290535
## 106	4.6654439	3.4595365	10.5616989	9.6824434	0.0000000	3.5775376
## 107	11.0482217	7.2940858	10.6602702	8.7208619	0.4455148	6.3455862
## 108	1.7317915	2.4202398	9.2651248	9.2225790	1.7317915	1.8525982
## 109	5.6944679	3.3088414	7.2649211	7.2454424	0.5315686	6.5765614
## 110	4.3895737	5.8468343	10.6765993	8.1845456	0.9985566	2.4127002
## 111	8.4194150	5.9668965	6.6663462	6.3817298	0.0000000	2.1666512
## 112	4.4202331	3.6625473	10.4982326	10.3071394	0.5023306	4.2725906
## 113	6.7861873	2.2075181	9.9302469	8.7588608	0.0000000	0.8513593
## 114	7.0420095	3.9046479	10.1392811	3.5003049	1.5833747	0.7360420
## 115	10.3071786	8.6941325	6.6365057	3.3188085	8.4754538	5.3232404
## 116	3.2945472	0.4075159	9.4647777	8.6254393	0.0000000	3.2945472
## 117	2.7290959	1.3038100	12.7061232	7.3032109	0.0000000	3.3301998
## 118	10.7517933	7.4169562	8.7610675	3.9215982	2.2472288	1.8066953
## 119	4.8281898	8.5137951	9.3424807	4.0562280	0.0000000	5.4309108
## 120	8.2550205	9.0775101	9.2532866	0.0000000	0.0000000	0.3405053
## 121	5.5750006	5.8260857	9.5127347	8.5548758	2.0606354	4.2911099

##	122	5.3222851	6.1917719	8.9066378	4.5271955	0.0000000	2.2724114
##	123	2.0746082	2.7464633	8.9132721	9.8635345	1.6514536	3.0247452
##	124	10.6430464	8.2378682	0.6890307	2.9850814	0.0000000	2.5601035
##	125	8.8180721	0.0000000	9.4026092	8.2130794	0.0000000	0.6787029
##	126	0.0000000	0.0000000	10.4937496	1.7991702	0.0000000	0.8825257
##	127	4.5267136	3.1984942	4.7528824	9.4575352	1.8030617	1.0475384
##	128	5.9002920	7.3645716	9.2010199	6.5653352	0.3650206	3.8321001
##	129	9.6021087	7.0425491	9.7064425	0.0000000	4.8627093	1.6307316
##	130	9.8737257	10.6164303	10.0050579	4.4474205	6.5311163	1.6181447
##	131	0.4403144	0.0000000	13.7071763	10.3578259	0.4403144	1.4773665
##	132	6.9358534	5.2642024	11.5148539	6.4386804	0.0000000	15.1978308
##	133	9.2291461	7.8956765	7.9900421	10.3718630	11.6273260	3.3816848
##	134	6.6605721	7.0127877	4.1574157	7.4754003	2.0028825	1.3242346
##	135	2.8307218	4.6872343	7.3570866	8.9430425	2.4817639	2.9496843
##	136	3.9967232	3.6972067	6.4204083	8.3996325	1.1906781	3.0475558
##	137	4.7687401	4.3403985	10.2993266	9.9327234	0.0000000	4.1824460
##	138	10.7072640	4.0233086	2.5594673	3.9920614	0.0000000	4.9913676
##	139	6.2716815	4.2662618	9.5184785	5.1273403	0.0000000	1.7623488
##	140	8.5907772	2.7818633	7.3115258	10.0047559	0.0000000	0.5056877
##	141	2.5437186	7.4735523	2.6400424	3.6652563	0.4881036	4.0618194
##	142	8.3866597	6.1083614	7.4453708	4.4806012	5.6385054	1.0328061
##	143	9.7579656	8.0904909	5.3838356	4.4454619	1.0579701	1.8174595
##	144	2.6795589	1.8888114	11.1378295	9.8125815	2.2030132	2.9557406
##	145	6.7111686	1.2876496	3.2702299	3.3396648	0.8990209	3.8911081
##	146	4.5878450	0.9565771	10.7876561	9.9701587	0.0000000	4.3754148
##	147	2.7843783	1.3058538	9.7716580	8.2466252	0.7959331	2.5323419
##	148	8.6248229	7.8053511	4.9265593	9.7796130	0.0000000	5.3651361
##	149	8.3049253	7.7000339	11.0396244	4.3138988	0.0000000	1.9918982
##	150	11.3654991	5.6254108	6.9324191	6.2656132	0.0000000	4.8628332
##	151	8.6632688	4.4099950	8.7792348	8.7124355	1.3330802	3.8501493
##	152	8.5856908	0.8720801	10.4767494	12.6812184	0.0000000	2.4768483
##	153	9.9138023	7.9561473	11.8777696	7.1862381	0.4689482	2.2751859

## 154	9.5959787	4.8614691	4.3768946	3.1997823	5.2720083	6.3238546
## 155	1.9976898	2.1820248	10.2144409	8.5862874	2.4922378	6.5219412
## 156	6.2041270	1.3186928	7.3389289	0.0000000	4.0393227	1.3186928
##	rs_TMPRSS3	rs_ZIC2	rs_OGN	rs_C3orf57	rs_CACNG4	rs_L0C642587
## 1	9.315556	8.0138564	8.9182992	8.1242966	11.8547485	8.0609045
## 2	5.034806	1.4884122	12.3801608	7.3848286	12.1440981	7.5187090
## 3	6.308898	1.9732072	9.6827322	8.2175317	10.9419013	6.0145517
## 4	4.829505	1.3860936	7.8936832	5.7723106	8.7285913	4.8088895
## 5	10.684756	1.9158650	9.5909725	11.5654423	11.8456770	8.0448012
## 6	9.118887	0.0000000	5.6216563	11.8930686	4.1372986	7.3240221
## 7	7.033041	8.8537072	6.4808257	4.1041270	5.5979900	6.8032606
## 8	7.385582	8.5024134	3.5582431	3.7935006	7.4980849	2.9273276
## 9	9.329037	7.5941962	4.5765282	10.7378517	4.8607443	8.9485162
## 10	8.563258	0.4930324	9.2334689	11.9592237	12.4516576	10.0596215
## 11	8.884872	6.3802758	8.0892026	7.3241859	10.2119025	6.6001909
## 12	5.371569	5.5759567	7.8871000	9.4305130	11.2706499	6.3670547
## 13	7.466296	2.2302645	9.4101513	5.1164895	0.9433588	3.8464031
## 14	7.233273	0.0000000	9.8294805	10.3538534	10.9012653	9.9349911
## 15	10.793318	0.7778720	6.1932809	5.1416371	12.0291668	9.6887689
## 16	6.679801	0.0000000	5.1163273	6.8041594	12.4396290	7.3237871
## 17	1.973207	3.1607750	7.9176865	5.3912831	12.4026021	5.8227811
## 18	6.940193	0.4665488	8.4432710	9.3838090	11.8464925	10.6786264
## 19	8.860739	0.6536104	9.7273904	7.5771848	7.9339756	9.0904184
## 20	8.407499	0.6551686	6.0051192	3.2225727	12.1878046	3.8587469
## 21	6.468901	8.5135046	8.1161386	3.1813888	7.5348203	5.3841465
## 22	9.318682	1.9571717	1.6132016	6.0549787	6.6296932	8.3375666
## 23	4.671576	1.7460117	2.7334411	4.2752827	6.1337526	6.8624762
## 24	6.829511	0.4537546	5.7410813	3.8385686	6.1692536	7.9471729
## 25	12.217914	7.9408732	15.1304680	2.8969499	9.0235495	9.4950937
## 26	5.132560	4.4789589	6.4991921	8.3655136	12.8223557	4.8290072
## 27	10.232775	2.0800095	9.1444571	10.2536949	13.2077507	9.3582303
## 28	5.893498	0.5002922	4.8875740	6.6744027	10.1252261	6.0460916

## 29	7.986054	2.0048968	7.4527305	9.9636071	12.3638973	7.5087107
## 30	10.570290	3.0755497	11.3058882	9.6473971	10.3494061	9.2014420
## 31	5.443424	3.2240403	8.3818319	12.5270306	12.4405782	7.3946916
## 32	11.301185	1.0374525	6.7171349	6.4010297	11.0066705	7.1644655
## 33	10.513587	1.4705108	10.1150971	6.5241562	9.4611952	7.9349434
## 34	10.872602	4.2104746	11.5719161	9.5973872	11.1729233	7.0624456
## 35	6.241138	8.4132873	8.8620946	8.3612635	9.9928378	2.1020198
## 36	9.743789	4.1442667	7.3498049	5.5606630	5.8229595	7.2919102
## 37	11.592638	0.0000000	8.6853652	10.8632699	11.8866957	7.7877341
## 38	10.492875	7.4194706	4.9191541	12.1982678	10.6971069	6.4765388
## 39	10.833166	1.4620000	6.3134654	5.8368583	9.8214189	4.7008503
## 40	12.039404	1.8355199	7.1429648	10.1866328	8.8531985	7.2654566
## 41	5.005692	0.0000000	1.3995539	7.1618776	5.6761009	4.6949470
## 42	9.833282	1.0865120	7.9178321	12.3965265	11.4195590	5.6239605
## 43	9.319638	0.0000000	2.5617172	3.2434863	7.4353861	5.9560311
## 44	7.094190	0.3923174	7.3254179	9.2937280	11.0313831	6.5944366
## 45	10.295464	3.6682326	10.5321087	6.9821608	9.7250090	6.0100100
## 46	9.803317	1.9700438	8.2204044	9.0925124	9.2126724	10.4452950
## 47	9.843568	0.3810618	9.7458724	9.1515610	11.4270081	6.3471536
## 48	7.406850	7.7052757	7.7562834	8.1220789	11.2416567	8.9853111
## 49	7.861037	0.0000000	6.1905892	6.2403410	11.9949123	8.4303003
## 50	9.246717	0.9754835	9.8698973	8.6931932	10.3230257	4.9817750
## 51	9.220073	1.3697736	5.2018220	4.7707815	6.5858188	2.8752099
## 52	7.089885	1.6440408	7.0499465	7.9107249	10.0950284	5.9127816
## 53	7.969892	6.9200360	7.4148738	5.8021674	6.5115613	5.7237169
## 54	8.636568	0.0000000	10.0136399	9.8290231	11.7760892	6.3803485
## 55	7.379154	2.5286713	9.0250734	4.2165247	10.2450559	7.1650718
## 56	10.516079	6.4470667	1.7828279	1.3935809	9.8845729	3.6778690
## 57	9.904207	6.4121515	9.9177396	6.2909349	7.2783398	8.2152670
## 58	11.940977	1.9571717	9.0745689	7.5939505	11.0663241	9.7580558
## 59	12.549736	5.9804618	3.9199026	1.6142387	11.8125060	6.0780227
## 60	6.860022	6.3027723	6.9665285	4.1028513	11.7724256	4.8604365

## 61	5.042478	7.7417447	9.7070433	5.5438577	10.2880980	6.0136409
## 62	6.315226	6.6957572	8.6748451	1.1288873	12.3525103	5.3802377
## 63	6.124812	1.8906412	7.7513720	3.1461990	8.7750262	5.8946480
## 64	9.229035	5.6145155	8.7117946	5.0562107	11.2922219	7.1879221
## 65	8.130794	7.2445313	5.9355069	6.4840785	0.8676593	3.7703216
## 66	12.103032	5.8512943	5.4603625	11.2703331	11.2993333	5.6767808
## 67	9.090190	2.4158127	10.8179452	8.9696271	9.1138343	10.8666949
## 68	7.278742	0.0000000	9.3405133	7.1831679	11.4083479	8.4460722
## 69	10.838366	3.9535260	10.7587709	7.9158143	8.1919978	9.8300299
## 70	5.319531	0.0000000	9.2341748	11.5134484	14.0198379	1.0240359
## 71	10.548737	1.3470420	9.6820599	10.2406319	8.1663208	4.6961497
## 72	8.772827	2.1464271	7.4003330	9.5769699	11.4634859	6.3728407
## 73	6.166344	4.5166645	9.0891904	4.2693923	8.3713720	2.5590267
## 74	8.713724	6.4054751	7.2280856	2.7692005	12.3296834	9.1823655
## 75	9.170521	2.1673900	10.1991855	7.5174505	8.7783900	10.7951249
## 76	7.989998	6.8260832	1.5295711	10.4781806	9.1872078	8.4624258
## 77	3.547512	2.0197019	11.2921025	3.1106138	3.4160425	4.1539998
## 78	10.810717	1.0028825	6.6968883	4.9441932	9.7148592	8.5590765
## 79	0.000000	1.6144272	12.0493819	2.2042033	1.6144272	1.8388711
## 80	9.774097	1.5998414	4.5942081	4.6182680	10.3448308	6.7955111
## 81	6.877839	3.2163462	11.9088244	6.3744640	8.3419706	7.2316714
## 82	9.162568	1.6983074	10.8229750	6.9907133	7.6237213	9.2470866
## 83	11.950167	0.8451086	8.9850094	4.7698193	11.7664782	8.1604135
## 84	11.258155	5.6538425	7.4674352	7.3101792	10.4901858	9.7543250
## 85	5.658666	0.3523066	4.4427379	8.8277831	9.3763941	5.9379164
## 86	0.544881	3.6928847	0.2980717	10.6764972	10.9451722	0.0000000
## 87	9.773834	0.0000000	8.2928917	10.1745008	12.0313782	6.7646460
## 88	3.991236	6.4583640	6.1904529	7.3261014	5.9215434	0.0000000
## 89	7.467619	7.7405127	6.7020521	5.3341928	3.5050017	9.4875273
## 90	3.146101	0.0000000	4.4103886	2.0142482	11.4135590	1.1804662
## 91	7.145190	0.4421208	8.9753625	8.9473438	8.8396860	5.9278514
## 92	8.393293	4.3741214	6.4499476	6.2715751	7.9559904	4.7873698

## 93	2.340876	6.6624405	3.6847514	7.7872940	11.6502506	5.3806152
## 94	3.704252	6.0453338	9.3979719	7.2934615	10.5654131	6.4327390
## 95	7.943509	5.8617321	10.1416776	6.1010302	10.9659151	7.6660415
## 96	11.360142	7.6713231	5.0526985	6.2639001	11.8522075	2.4355486
## 97	7.910094	0.6763577	1.8841681	1.3191555	6.4888974	0.9237957
## 98	8.482203	6.0660590	7.3854819	6.9300265	11.9890132	5.6156046
## 99	7.785234	3.8426872	5.3590045	7.4757983	11.5663868	1.6890755
## 100	9.358453	2.1502997	5.2042112	7.0028116	12.4686956	10.5017162
## 101	13.350375	5.6925165	4.2828475	11.5537260	10.3890096	5.7283450
## 102	10.415531	0.0000000	3.1043367	10.6512311	12.4786180	1.1375035
## 103	6.887557	0.0000000	11.9359543	4.0741800	10.0774573	10.6587331
## 104	8.692254	7.4578257	7.6835758	9.8065786	10.0617429	7.4954154
## 105	6.162051	2.9580260	7.9910428	8.8362123	13.8634738	4.7481123
## 106	7.446679	1.1699891	5.9234392	9.3549129	12.5237972	6.2119992
## 107	9.576185	0.7854250	6.3835920	5.0531722	11.7905251	7.9272760
## 108	3.321250	1.2933116	7.6814493	9.3178974	11.8720059	0.6601985
## 109	7.330278	1.4760706	10.1201443	4.4257480	9.1879644	7.7854433
## 110	7.584597	5.2195867	8.6032217	9.6276916	12.5005297	4.7341893
## 111	8.831725	2.9963345	6.6436369	3.7066190	6.0030287	4.8852473
## 112	9.939496	1.4147309	7.7737893	10.0388115	12.0801726	8.5652872
## 113	5.350745	0.0000000	5.4065163	5.1200035	10.9378116	4.6278053
## 114	11.584594	3.0567743	7.4070026	11.3540504	9.8664226	5.9595685
## 115	3.323139	5.1388104	4.6793675	12.0536420	8.7535561	6.5922926
## 116	8.513949	0.7248249	7.3762869	9.3234752	9.1486789	8.0868671
## 117	5.237246	0.0000000	7.9398918	11.0323991	10.7364175	4.6850767
## 118	5.218293	6.3051716	4.2086031	8.7796406	6.9327970	3.9416698
## 119	8.992671	2.0297356	7.5862085	8.4402870	9.5908587	7.4344681
## 120	10.649977	4.5458634	6.0605641	0.6156988	8.5143298	4.3897526
## 121	10.923399	6.5247204	7.8863916	7.7071838	12.1812788	7.6464917
## 122	8.055598	5.9449662	8.7763274	8.1038863	11.3116727	8.4222040
## 123	8.307765	3.4586182	6.5569827	6.5947650	11.2477043	7.7323601
## 124	5.523418	5.3716982	7.0709882	1.7860526	4.8353279	5.3928738

## 125	4.898915	7.6868233	7.3575133	6.8320735	8.0934260	2.5864045
## 126	2.787704	0.0000000	5.4463423	5.0283747	13.0660763	3.8577621
## 127	5.696495	3.6708970	2.8878567	6.2145911	10.2922714	6.6924732
## 128	2.929999	4.7344766	7.3236763	7.6117803	12.1018688	2.7564896
## 129	7.369622	5.9977373	8.0020988	6.2087435	11.6665864	2.5926364
## 130	3.700950	5.0747666	7.3692763	2.9303967	10.9749864	5.2099875
## 131	8.131565	3.7916057	3.2029505	1.2795307	2.6675061	0.0000000
## 132	10.398092	6.5766461	6.5298444	8.2883383	11.4279582	7.5756671
## 133	6.202310	5.6460849	9.9012312	7.7506722	10.7618628	5.3313434
## 134	9.347230	2.8106282	8.4984731	7.1985590	9.4085384	7.4475784
## 135	8.937970	2.8307218	12.0982541	8.4492201	10.3436074	6.3306731
## 136	4.071994	5.0657662	6.8312274	5.8222024	11.0930291	7.5301269
## 137	6.920031	1.6326405	7.3341758	8.6138127	13.7354825	6.0317878
## 138	6.149103	0.3650206	1.4476321	7.9544796	4.9913676	3.3112125
## 139	5.500219	7.2453530	3.9406460	7.6980392	11.1078098	7.0798090
## 140	3.719687	7.9630729	2.2564974	3.6246858	6.3726736	0.5056877
## 141	11.815568	0.4881036	6.5358570	8.8728100	3.1125333	1.7720968
## 142	9.653562	8.6052106	6.7967833	6.6984963	9.5283644	4.4075771
## 143	5.253505	0.0000000	5.2670825	7.2038374	5.8665074	7.6022156
## 144	6.690351	6.8843964	8.9494019	11.8054551	10.0141818	2.9557406
## 145	6.900600	1.5935450	1.2876496	5.0316334	6.1624014	0.0000000
## 146	4.845570	2.9231682	8.2044699	10.1551074	12.7860834	7.5561688
## 147	8.920847	1.3058538	7.6789177	8.6960272	7.8312534	2.9988634
## 148	2.678568	5.1864292	4.8384980	1.1378314	3.2331825	4.1048818
## 149	8.815748	6.5265102	6.7869348	5.2278681	11.1269719	1.5165195
## 150	9.039203	2.8048796	4.8398085	9.2382805	4.5588921	6.2754262
## 151	10.190969	1.9205220	10.9171491	6.8949172	10.3336925	8.9632319
## 152	11.568269	7.2292312	9.2089037	5.3670425	11.8926250	2.7681420
## 153	2.912458	6.8318025	8.3803017	7.6351130	10.7942111	3.6899588
## 154	7.399027	7.4888717	6.9777367	5.2956312	9.3614576	9.8907589
## 155	11.670151	1.6677559	5.4504492	10.9035401	12.1548142	6.8895587
## 156	10.378848	5.7089487	8.6257907	12.1598222	11.1115961	8.4924669

##	rs_ATRNL1	rs_AFP	rs_NDP	rs_GABRB3	rs_LRG1	rs_AREG	rs_GRIK3
## 1	3.2582325	1.1923204	3.3819616	4.4867272	10.249395	10.2050541	7.865391
## 2	8.2530934	3.5649390	4.1965520	4.8484377	6.518052	10.0736007	7.451834
## 3	7.2063795	4.5876830	3.9664212	4.3234782	6.183812	7.2795335	9.988292
## 4	1.9350825	0.4889263	1.1442422	6.9166976	9.598388	5.9802104	8.062117
## 5	5.9452823	2.7955384	8.5308316	4.2649117	10.561575	9.5062643	9.482490
## 6	2.9528367	0.6028369	3.2170446	2.0398403	9.684916	6.9772799	5.299453
## 7	2.0304067	0.8248086	8.4256192	2.0304067	5.791220	5.3881654	5.770985
## 8	8.6345145	0.0000000	6.3518156	9.5024993	3.470446	5.7228103	3.224287
## 9	7.7132717	0.0000000	4.6380275	5.8357018	1.027933	6.8296200	4.006020
## 10	3.7249122	4.8635222	8.0476556	3.8524683	7.809050	8.3528468	8.772616
## 11	3.7053366	1.4183519	8.0962745	4.4644918	9.806194	6.5700287	8.671806
## 12	2.1162982	0.0000000	5.3055000	3.5081878	6.097135	8.6564978	5.598204
## 13	1.5089864	0.0000000	2.3656086	2.0808623	4.020609	4.8191419	4.444163
## 14	4.4447664	3.7797430	10.3171852	3.7075579	9.946796	9.3000244	9.460975
## 15	5.4553700	3.4600217	7.3537873	1.4784542	11.567751	3.7168044	10.809780
## 16	8.9653407	2.3654686	7.3028573	2.6031456	10.354028	6.2345071	8.388458
## 17	5.7573860	6.8884376	8.1220100	3.2897312	5.723545	3.4638055	6.458718
## 18	10.3190414	0.0000000	10.0722685	9.5979771	8.414500	2.9768952	7.306627
## 19	2.3252137	2.6223447	6.1768274	3.7963589	10.820967	12.0762795	8.006497
## 20	1.8426169	1.8426169	1.1040682	7.9816261	10.698343	6.4560521	6.835857
## 21	0.0000000	8.3374881	5.9243755	9.6821212	10.434322	7.2777254	3.993937
## 22	1.7954345	0.0000000	4.5127768	0.0000000	10.261051	4.7955072	7.819390
## 23	0.5566992	0.0000000	1.7460117	8.6192321	2.103028	5.5002061	10.931281
## 24	6.2694297	0.4537546	5.3283841	1.8428984	4.687307	6.2058343	5.051229
## 25	0.0000000	0.0000000	3.5004961	0.9762170	11.498907	12.5536977	9.309623
## 26	5.8901572	1.5178804	3.1679038	5.9658558	11.461764	13.8705250	8.093309
## 27	3.2093910	1.9521099	7.2648901	7.1959784	5.688569	10.5019042	10.424195
## 28	7.8954141	5.4493732	3.8756621	8.2499179	4.966204	7.9520545	5.076649
## 29	5.0809944	1.3258469	7.7560158	5.6386473	11.046250	6.3427147	9.533589
## 30	4.8511444	3.1974094	4.7943327	5.6014796	9.522516	12.2434048	9.655395
## 31	4.5636402	1.1322478	7.8220112	4.0440356	10.778090	4.1446909	4.848658

## 32	6.7829694	0.0000000	4.1285574	5.1873956	10.456210	8.8062812	5.520809
## 33	9.2790582	4.3055620	4.3055620	4.2258687	8.928850	8.0703904	7.835530
## 34	6.8974062	2.4271502	10.4937486	4.7692269	8.746964	8.4437637	9.879420
## 35	3.8617768	1.0688084	4.3499738	0.7922723	9.557056	6.0709817	9.593726
## 36	3.3194734	5.1899906	5.1207335	1.8345494	6.301086	7.2109148	5.928053
## 37	2.0047890	2.7216351	5.1818658	8.9779341	9.831355	11.8445924	8.126804
## 38	0.8827604	0.8827604	7.7543537	2.3040145	8.196135	6.7076587	8.280782
## 39	7.0222091	9.8743041	0.9088129	1.8609231	6.180158	10.2529278	3.352377
## 40	2.8281238	0.0000000	3.8567368	4.9479046	4.472137	4.3411176	5.144087
## 41	1.5684700	0.4088205	3.9464034	7.1552605	8.742318	7.2972639	2.202919
## 42	1.5224073	8.3156351	4.6203401	3.5682267	4.064409	7.2508934	6.776311
## 43	0.0000000	0.0000000	2.4484517	2.3255303	9.316615	4.0142035	3.932307
## 44	2.1498447	0.0000000	2.6583029	4.5158071	8.515812	13.5416329	11.469754
## 45	8.7497950	4.9434807	8.4729718	7.3704302	9.491627	8.4348217	6.520045
## 46	1.4975868	0.0000000	4.2657744	4.3455880	11.927222	12.7653374	9.850247
## 47	7.4963721	1.7733212	7.1576248	4.7708238	4.527802	6.4703140	8.113730
## 48	5.5435485	3.6501671	5.5961868	5.4889134	9.276915	7.1257565	9.484310
## 49	4.8245082	0.0000000	2.7430410	8.4062850	11.027209	7.4673455	10.439341
## 50	4.6893383	2.0775506	2.5438175	4.0123988	11.237641	11.0808640	8.135534
## 51	5.9650962	0.0000000	3.4775996	5.4932342	6.231596	5.0988743	2.811533
## 52	5.7655507	1.2193389	5.1295468	3.3266668	10.719766	7.4181216	9.086862
## 53	8.5204293	5.4041334	2.3038392	9.7663523	9.495037	9.5184635	10.457133
## 54	3.1383066	4.7302704	9.7069573	2.5769332	9.090676	6.4047175	9.149539
## 55	5.8787597	1.4796962	5.9639180	3.4381598	11.272553	7.5495514	8.174997
## 56	0.0000000	0.0000000	5.0681033	7.8043802	2.341502	8.5889099	2.652808
## 57	4.5481407	5.5836936	5.0350432	7.4310922	9.580615	6.8059708	7.126250
## 58	5.0317922	5.6161812	6.4189995	5.9584622	10.025698	10.9203934	8.799678
## 59	5.6742516	0.0000000	3.2088138	9.9404039	2.655581	7.6655178	0.000000
## 60	1.6588284	0.3444877	6.4962147	3.1410240	9.502690	5.2253598	6.119049
## 61	8.1265765	5.7938361	3.1057786	3.7847657	4.197519	8.9251841	9.470687
## 62	10.6706202	6.2660144	1.3124328	5.9008523	3.391603	4.8672936	4.502082
## 63	3.9904103	5.0890616	10.3761336	5.3792085	9.952811	5.4789362	9.690226

## 64	3.0060287	0.4994760	3.2762733	4.1333498	10.361783	9.6849125	8.351426
## 65	3.4816993	0.3503841	5.9419725	8.7577580	2.759752	6.7722644	3.332207
## 66	11.4324709	0.3494785	3.3671334	2.3536056	4.373843	6.0671654	7.645632
## 67	4.8253582	8.3526345	6.6827769	4.4383261	8.098991	10.4383668	9.214470
## 68	4.8731094	3.1838517	8.8507094	3.7149049	10.463770	6.3276532	9.092657
## 69	7.3678576	5.3524443	4.9061931	5.3918811	9.299382	9.2352381	10.052760
## 70	3.2124293	1.0240359	1.0240359	1.2498700	9.600335	8.1508455	8.412450
## 71	6.5758856	1.6805944	2.1071187	2.5489791	10.421110	6.4793324	10.727333
## 72	3.5438175	4.4557809	12.1316290	7.0854013	10.285128	7.8132341	4.885599
## 73	4.5645550	0.0000000	4.5328032	7.3779575	4.782718	3.9468993	3.498417
## 74	1.6022193	4.8541553	2.6405284	1.8551127	2.640528	4.3567143	4.111741
## 75	6.0803741	5.4754773	6.1721494	4.5954201	9.724108	9.6795638	9.339815
## 76	1.7068178	0.0000000	1.8646517	1.5295711	10.338830	10.2844254	10.741237
## 77	3.2713958	0.0000000	4.1946859	5.3831236	5.683901	7.1134765	4.516904
## 78	0.7392433	0.4165155	7.7650891	3.5496076	4.795653	6.0427844	4.590506
## 79	4.2510525	0.5997939	3.6843363	6.5353158	5.328237	3.1263121	2.357186
## 80	2.4511188	0.4918018	4.5195167	0.8579014	8.406746	4.4135128	4.641933
## 81	6.5424562	5.8356285	5.3748865	6.3049436	6.752878	9.9835825	8.737873
## 82	4.0631750	0.9245560	4.3755608	6.0369648	5.996949	9.1905554	9.153496
## 83	6.4298452	1.5151069	4.3109145	7.4784008	10.739825	9.8156808	6.647936
## 84	7.5799902	1.0316775	5.0942065	4.1884326	9.964967	5.4009921	7.697158
## 85	2.8249307	0.0000000	3.5250415	2.6452175	2.767464	6.4885905	4.478978
## 86	7.7395261	8.8161760	3.7182520	1.9938555	3.137782	4.8230411	5.379032
## 87	2.2126316	0.0000000	7.2974849	3.7254576	10.237464	8.0536865	8.188900
## 88	1.9929859	0.0000000	2.3144645	8.0913492	6.190453	3.2395661	2.692539
## 89	9.8244557	2.5776101	4.9839057	7.7599368	12.771616	1.4095267	3.556699
## 90	1.3333665	3.9719481	1.0094905	4.2659019	10.669112	6.3087468	6.271388
## 91	2.6731720	2.0796341	8.5887469	2.6731720	9.268268	9.5787776	9.382726
## 92	5.1694440	6.1370526	3.1817705	7.4342095	10.178162	8.0188856	6.885390
## 93	5.9774540	0.0000000	1.4298570	2.7570873	10.855986	5.4268048	9.476187
## 94	5.9280244	4.0668900	1.5877010	6.7183342	8.797141	7.6855975	8.316349
## 95	6.8353898	5.3875555	8.5383496	1.9110779	10.645958	8.9135722	8.286122

## 96	2.3128684	0.0000000	1.2159270	2.0309716	3.959019	11.4149905	3.689981
## 97	6.4400452	0.3774014	5.5834529	5.1206796	6.352999	3.6961830	1.996533
## 98	6.8544957	3.2688236	3.5066908	3.1046554	8.936469	6.6758724	6.187309
## 99	9.7813632	3.0546922	5.6512584	7.6156076	7.826214	12.0830833	4.596846
## 100	3.1474695	1.3067872	4.0206533	1.9810854	9.753638	2.9779027	5.833130
## 101	1.3564256	7.7256267	3.4780658	8.4545251	6.847675	7.4511468	5.088731
## 102	7.9436870	0.0000000	10.5798816	9.2493505	5.270529	3.9448584	11.716734
## 103	8.1384213	0.3330802	7.4620908	1.0278618	10.912510	5.2033656	10.315135
## 104	2.9211507	5.8348275	7.1976993	2.2831217	11.106818	9.2827870	4.451785
## 105	4.1444380	0.3124328	0.9761436	2.4202398	8.034267	4.3293317	2.766256
## 106	5.5431432	0.0000000	4.2574934	2.6583029	8.824077	4.7177861	10.997380
## 107	4.3854172	2.4173260	5.9743044	2.8381047	10.393927	8.2523040	6.712054
## 108	4.7915901	0.0000000	1.8525982	7.6814493	9.610210	8.5817824	9.625131
## 109	2.9415383	2.3246378	5.6567452	3.5474005	7.373553	4.8831809	5.123368
## 110	4.3664901	2.6605408	4.2702822	5.2577197	8.354678	9.7469902	6.970598
## 111	2.3573831	1.1820566	1.6874191	10.6752518	5.693805	9.3132284	4.536557
## 112	5.1356990	2.2475630	3.5126567	3.6142976	7.492740	9.4630743	10.203815
## 113	8.0853779	0.8513593	2.6385836	1.3831651	9.683822	7.8815490	6.389407
## 114	6.9362163	3.7347421	10.3838211	3.4572528	9.289156	7.0956470	2.936515
## 115	0.0000000	0.0000000	0.0000000	6.1792443	3.701682	0.6786128	4.001262
## 116	5.2801769	1.5647196	8.0140567	3.8784899	9.002110	7.5140315	9.365483
## 117	7.4855315	5.6567595	4.5856236	3.1824222	4.752138	3.6444908	11.511860
## 118	1.5229597	5.4829354	2.7271581	4.8320191	6.350048	4.6644715	3.685671
## 119	3.6608488	2.1459709	2.9730234	8.4892479	10.504381	9.1951160	8.856420
## 120	5.4633445	0.0000000	3.2903654	1.6458861	8.514330	2.4659484	2.598651
## 121	6.5735805	9.7475747	8.3641355	5.2365462	3.623820	8.8454715	6.335324
## 122	5.6063652	0.0000000	7.3359932	3.7956838	11.709465	9.5966214	9.555142
## 123	5.5558990	1.0501882	0.7771988	3.5493735	10.385116	5.4301682	9.052638
## 124	1.7860526	0.9398284	0.9398284	8.9935713	4.618767	5.7618145	4.772086
## 125	5.0891422	0.8487982	3.1714631	2.1388472	9.602386	8.8097273	7.480694
## 126	4.5968994	0.8825257	0.5077185	1.9828385	9.098254	4.1251965	4.193307
## 127	9.9430617	1.4742024	3.3571156	7.8744423	10.981175	5.8644264	8.696888

## 128	5.3273568	0.0000000	2.9299992	11.1920974	9.634206	10.6671515	10.054269
## 129	8.1045600	9.2253205	3.9314278	9.1399652	9.213140	7.0425491	2.376652
## 130	0.8701871	0.0000000	0.0000000	8.0092637	6.352623	1.4091465	3.654275
## 131	0.0000000	0.0000000	1.9467683	10.1193938	11.081690	5.4300444	1.477366
## 132	4.1678878	1.8525982	3.4608212	3.0702519	7.806360	6.6027241	10.879485
## 133	3.2686739	0.0000000	3.0120501	5.8464206	7.658360	4.9281997	3.719315
## 134	6.4876005	0.3793992	3.1892711	3.7368971	11.278321	4.5019104	8.633539
## 135	6.9530114	0.9390008	1.9074676	2.7010832	11.237041	10.1228699	9.733870
## 136	5.7891215	0.5134907	1.9973647	3.8332443	11.547111	8.4803261	8.572319
## 137	7.8053511	0.7657893	2.5612039	8.3926781	7.672999	12.1788217	9.382227
## 138	0.3650206	0.3650206	2.2458607	1.7239953	3.311212	7.0725571	4.342818
## 139	6.0157139	0.0000000	3.6626157	5.0574113	7.897591	5.7925925	8.441354
## 140	6.4509126	0.0000000	0.0000000	0.0000000	7.133180	3.1661530	3.413567
## 141	1.7720968	1.7720968	4.1297446	2.7303356	9.667820	6.7452400	3.358860
## 142	1.6285870	0.7633266	4.1486494	8.2025495	8.592235	10.9500844	9.034430
## 143	4.8997654	4.2228046	6.4342062	5.7359202	4.714009	4.9170928	1.817460
## 144	2.6795589	0.0000000	1.8888114	6.7459136	6.959436	2.5743680	9.080049
## 145	7.2781995	0.0000000	3.5081244	1.9570602	3.181341	6.9144569	1.845751
## 146	6.2879930	4.8920218	10.1634153	2.5118981	8.628036	8.0669954	4.004654
## 147	4.5963090	0.4521737	4.1644645	8.2991077	11.006419	4.2506812	9.917163
## 148	8.0795264	0.0000000	7.6371987	6.9194354	1.485787	6.0005679	4.000541
## 149	2.7187452	0.0000000	1.9918982	0.4564908	8.437839	5.2562445	5.700190
## 150	0.5465611	0.0000000	5.7292727	7.2574227	10.198584	5.1516275	5.790584
## 151	8.9900642	8.2899608	6.7394823	4.9837506	8.300428	9.6927271	9.030448
## 152	0.5010060	0.0000000	0.5010060	2.7681420	8.063576	7.4266539	9.601653
## 153	7.9628255	7.0143162	2.3853482	11.6373664	9.434475	5.1048943	4.761083
## 154	6.3579162	0.3994446	5.7102747	3.6783198	4.711462	5.6473951	6.863821
## 155	3.6670178	0.0000000	8.6612953	6.4873513	6.359302	8.1485254	11.415446
## 156	7.1943087	0.0000000	7.8148029	3.0827026	7.154509	5.9372031	11.369641
##	rs_TPRG1	rs_AKR1B10	rs_IGJ	rs_PSCA	rs_DKK1	rs_CYP2A7	rs_COMP
## 1	7.241933	1.8360857	13.790641	8.1309262	3.2582325	4.6678354	11.396651
## 2	7.049409	3.3771237	11.101667	5.5053130	4.5254613	2.2052361	13.642377

## 3	6.062718	7.1065200	12.968732	7.2521005	5.3269831	0.0000000	11.555223
## 4	10.098440	1.3860936	11.859761	0.4889263	1.3860936	1.9350825	10.018770
## 5	6.253182	2.4217484	11.029934	9.5693170	5.7252422	0.0000000	12.289828
## 6	4.407910	1.3538878	11.458017	7.4362885	6.9350978	0.0000000	12.514237
## 7	5.061556	0.4706150	14.317628	7.7458565	2.7623063	0.8248086	11.810035
## 8	3.793501	0.7617108	11.392664	3.4704458	5.0741243	0.0000000	9.408185
## 9	3.635766	2.2131295	8.959098	4.2618467	11.0000135	0.0000000	11.211388
## 10	11.293158	1.7842946	6.373133	4.2423205	0.8598106	0.4930324	12.820789
## 11	6.672950	2.8119025	12.029630	8.0767424	0.4164074	0.0000000	10.533425
## 12	5.813168	0.4548076	12.708995	7.1556926	1.5125809	1.3204269	12.283932
## 13	3.891963	0.5474498	10.667943	6.2346699	4.8655625	0.5474498	12.132568
## 14	8.519446	1.8800977	13.011993	4.9923651	5.5621386	0.0000000	13.388761
## 15	11.649932	3.2593177	7.103178	4.6195304	3.5941185	5.1705500	8.792271
## 16	11.989418	1.5088850	3.418298	3.7002399	2.0807600	3.4182979	11.532471
## 17	6.067241	10.7234897	9.586796	8.0668453	4.3679860	1.8108132	7.135782
## 18	11.476644	1.1013139	8.069635	6.1315545	1.5405729	0.0000000	11.728241
## 19	10.377739	1.1017173	13.072086	5.4493171	8.8687195	1.1017173	9.486470
## 20	5.720596	6.0744369	9.535103	11.2275534	1.9538240	0.0000000	10.167438
## 21	3.993937	8.1717147	10.020473	8.0429638	2.5467340	0.0000000	12.649656
## 22	7.473207	5.2189284	5.991023	5.4674588	8.7166034	0.0000000	2.102625
## 23	2.513162	5.6699253	8.429330	4.9161709	0.5566992	0.0000000	10.673742
## 24	4.728116	0.0000000	10.744233	3.6390122	6.7425479	0.0000000	9.898772
## 25	10.658522	0.0000000	9.896026	5.8025086	10.9529592	0.4031586	9.431845
## 26	9.382443	0.6158871	8.960243	12.2178449	2.2410775	0.8469546	7.368719
## 27	7.567315	0.4422269	13.962637	4.6456786	3.3171593	3.4650603	11.369155
## 28	4.030054	2.5787214	14.337449	6.2085446	4.2659094	0.0000000	6.860878
## 29	8.719023	4.2767051	10.486388	1.3258469	1.1410403	2.0048968	8.478169
## 30	8.347381	2.1188580	11.347414	5.0743556	4.5644879	0.0000000	8.290317
## 31	9.485014	11.1328390	9.205166	8.5147168	4.4890226	3.9728121	10.776456
## 32	13.150195	4.3432799	10.977343	6.1604019	3.3886993	0.4339209	12.951531
## 33	9.008407	3.2481705	12.242005	6.4961220	3.7816115	1.3553546	10.666994
## 34	7.710161	0.9074291	12.994960	7.9307060	5.0805340	0.5238630	12.248824

## 35	7.326714	5.6760445	11.890162	11.3511689	3.5374328	5.7465654	12.493562
## 36	5.466102	0.5137939	14.488785	2.8050241	5.9280528	0.8918080	7.326925
## 37	10.585041	3.3276874	10.286009	2.0047890	4.9997475	15.7800023	8.902073
## 38	3.547166	2.3839393	6.184554	7.1026046	4.4473742	0.6439485	12.375681
## 39	7.055898	2.7448930	14.298427	7.0888190	7.4988731	4.1070936	13.511037
## 40	5.675147	0.4017397	12.791822	5.2330022	4.5132949	0.4017397	11.761725
## 41	3.299611	0.9876119	9.121580	6.7741453	6.8702069	0.0000000	9.913314
## 42	4.746474	5.4860965	11.648876	5.9812385	9.1278249	0.0000000	13.140803
## 43	2.856308	4.8174033	8.205787	9.5239071	4.0142035	0.0000000	10.567265
## 44	8.003630	3.7549944	10.081180	3.6511550	6.7407360	3.4179605	8.469500
## 45	10.943093	2.2940472	11.803900	4.6943342	2.4309275	2.9694913	11.738229
## 46	9.636168	1.9700438	9.771762	3.7829956	8.4102368	7.2753451	12.133822
## 47	5.912897	0.9312292	10.532698	2.0082717	4.0893117	0.0000000	13.630916
## 48	6.233426	3.0892778	11.645140	10.0686007	7.1727285	0.0000000	11.465365
## 49	11.681251	3.0212132	8.445698	0.8907969	1.5816887	1.5816887	11.489276
## 50	9.309580	1.5521311	11.111429	3.8607344	3.8923619	0.0000000	12.477075
## 51	2.442545	0.7081431	10.375724	4.7368971	2.4425455	0.0000000	11.885437
## 52	10.548129	1.2193389	10.621736	3.1651402	3.6038696	2.9832217	8.441722
## 53	5.827397	6.8682991	10.595124	4.4157925	1.8580208	0.0000000	9.956546
## 54	10.125081	4.0844470	11.101558	6.9388162	3.7073150	5.4335370	12.387761
## 55	10.627351	0.6747318	15.088593	0.9218171	4.9868478	6.4604182	8.624101
## 56	2.089057	3.4281424	6.107299	5.9357332	4.2403678	0.0000000	4.644047
## 57	6.091397	4.3579390	13.975252	6.9562170	2.5986034	2.2054238	9.522282
## 58	8.769285	1.9571717	12.341273	4.7520528	4.1936141	2.8888309	9.375234
## 59	2.958564	0.6681191	8.686918	5.9464174	5.2407799	0.0000000	9.772283
## 60	5.590913	5.2044068	9.970430	11.4147637	4.0800266	1.0557510	8.168405
## 61	5.395286	0.9358369	10.125061	2.3952822	5.3529386	0.9358369	8.774915
## 62	5.033353	0.9184626	11.874150	0.3748447	3.2184712	0.0000000	11.001483
## 63	12.550303	0.3457370	9.120011	5.1888321	2.7413160	2.2603870	9.761275
## 64	12.471030	3.2133006	10.868384	1.6176276	4.1669725	1.6176276	10.993984
## 65	4.216711	1.0701145	11.640859	1.5480913	6.4751903	0.0000000	9.290276
## 66	7.519859	1.4029404	10.313330	3.5804711	2.3536056	0.0000000	9.720679

## 67	6.654395	4.0306539	14.660159	4.9395322	7.1267994	1.5855875	6.393269
## 68	9.436898	2.5793733	10.912397	6.3387845	4.6588970	0.0000000	9.317488
## 69	8.831973	1.0923428	13.424783	5.0313467	4.0747965	1.2379919	11.384299
## 70	10.064492	0.4270698	9.207518	6.6814619	4.5900331	0.0000000	10.974495
## 71	9.078685	1.5777309	12.488075	8.3990352	1.5777309	1.2161755	10.292296
## 72	5.201473	0.0000000	10.748482	4.5986749	3.4463886	0.0000000	10.189570
## 73	6.075608	0.8258670	14.470385	1.4868173	7.8499949	1.1938979	12.028482
## 74	13.832463	0.0000000	11.345528	1.1133671	0.9050428	1.8551127	9.592621
## 75	8.686890	7.5810213	13.643038	4.8861306	6.1910790	4.5374328	6.500225
## 76	7.303743	0.4619476	6.787175	3.8665322	4.0747281	0.0000000	10.313811
## 77	9.886488	8.2716722	9.142502	2.8298496	6.1551178	2.7226409	7.618527
## 78	3.549608	2.6678467	9.353026	6.6204339	5.6780944	0.0000000	12.744648
## 79	7.768252	8.5236023	6.043268	2.4954905	5.8113323	1.8388711	6.511060
## 80	3.848508	3.0551783	5.971422	4.9569813	11.7365686	0.0000000	13.304085
## 81	8.559070	3.1385524	12.193478	3.0563234	4.2883659	0.5732776	6.706453
## 82	8.818204	0.9245560	13.830884	4.7330831	3.3191410	2.3337958	5.790073
## 83	12.511129	3.7524061	10.788490	6.7403852	4.3300851	0.6143800	11.347910
## 84	11.552858	4.4860643	11.207924	7.4264182	3.7015934	1.0316775	10.183486
## 85	4.496769	4.6791760	10.888864	3.9172312	4.5825500	7.4983019	11.382559
## 86	8.318612	0.0000000	5.593037	1.6159812	1.2490205	2.2930467	3.838841
## 87	7.457941	1.7282688	9.696649	9.5395958	0.7319652	0.0000000	13.238294
## 88	3.079224	3.6918133	8.173079	8.9679513	2.8987888	0.0000000	9.809245
## 89	7.645244	1.1650436	7.624200	3.3957209	10.5324245	4.8452943	7.559164
## 90	11.420642	1.3333665	4.207760	3.7454632	1.1804662	10.8889386	8.381952
## 91	5.448491	0.0000000	14.212644	9.8437510	3.2089386	0.7799741	13.041410
## 92	7.770857	2.3747891	9.718033	8.7182092	0.3774014	1.3191555	12.983011
## 93	7.336372	1.6007455	9.029215	5.6280153	2.8949147	2.4342679	9.882628
## 94	5.907511	1.7190958	6.802215	9.0141483	5.5673720	0.8949923	11.651135
## 95	6.974914	1.0734090	10.249333	5.2582325	2.3621613	1.2512646	9.731758
## 96	5.919588	5.1274022	10.940035	0.5270703	1.8662354	0.9121900	11.685489
## 97	5.627753	0.0000000	10.539875	5.1206796	3.1334156	5.0829878	2.289126
## 98	9.259639	1.0261627	10.149444	6.9259318	2.3635916	4.1919653	10.631809

## 99	5.576368	1.1834548	8.039880	9.3004404	5.4666010	0.3981314	11.504297
## 100	11.735438	4.9755064	8.609586	2.4387719	1.7893537	0.0000000	7.409486
## 101	5.962975	7.4009682	12.296529	12.1894233	1.9489372	0.0000000	9.412833
## 102	10.891024	7.3767766	1.765535	5.0268001	4.8777442	0.4854268	9.578561
## 103	9.786821	1.7388543	5.616237	2.8547537	1.7388543	0.0000000	8.185519
## 104	8.880409	5.3101038	7.691695	4.5503220	0.4716557	0.8265993	12.428657
## 105	6.943844	0.9761436	2.659879	3.3488981	1.6673472	0.5691022	11.380185
## 106	10.160930	1.8074374	9.977661	4.3924273	2.4263453	2.7945198	11.384627
## 107	12.109185	3.6937546	7.885945	3.8099597	2.6841904	6.5543755	11.491467
## 108	10.052382	6.4838480	7.802649	6.5876035	1.1114988	0.0000000	10.929743
## 109	8.028804	3.6013518	10.782996	3.3722835	6.1211087	10.9826349	7.004596
## 110	8.273251	5.7520581	10.247418	7.5388749	6.2066100	0.7357821	12.171732
## 111	3.394761	7.7724109	9.234872	7.3609638	6.1838934	0.0000000	9.576844
## 112	9.719794	1.1696685	11.946943	1.9693071	2.5845777	0.8742855	10.218516
## 113	4.942735	3.3572846	9.219397	9.6394167	5.4201287	0.0000000	11.028914
## 114	6.993854	0.7360420	9.014411	3.8722279	7.9994843	1.2210109	12.613917
## 115	6.816397	5.8888479	12.672666	5.0887692	5.8443003	0.0000000	12.055679
## 116	7.333137	2.1985256	8.395900	4.5952828	8.4098118	4.6337276	13.695944
## 117	10.447444	0.3159140	8.541497	0.3159140	2.6748222	8.1371889	9.620754
## 118	4.433767	8.7918909	12.980421	9.8441975	7.3187760	0.0000000	10.412859
## 119	11.016783	1.2451305	9.307027	2.3536338	5.5197778	0.0000000	8.330953
## 120	11.990130	0.8467942	6.223596	2.7201909	2.3197624	1.6458861	12.046773
## 121	5.165470	0.0000000	11.252699	6.6340632	3.6758949	1.4918018	10.930115
## 122	11.803419	6.1917719	9.218085	3.9003452	2.7910013	1.7816115	11.292969
## 123	9.630537	1.2795902	6.605380	4.7386706	3.2579309	1.6514536	11.810129
## 124	3.472618	7.4701179	12.335425	6.9899292	6.5693999	0.0000000	6.624146
## 125	7.433011	0.0000000	10.909523	2.0012978	1.1384213	0.8487982	10.909824
## 126	9.816953	0.0000000	12.243547	4.3205785	1.1797658	1.6364506	5.824732
## 127	13.186516	0.7750927	11.225096	4.3366476	0.0000000	1.6479591	11.648692
## 128	12.525749	7.8696833	10.094330	4.5693696	2.0588706	6.8309436	11.415770
## 129	3.970541	0.5051796	8.135007	14.4860054	2.6895899	1.4207788	11.559619
## 130	3.450855	4.2948266	12.657196	7.2330060	3.0791391	1.1647219	11.811410

##	131	2.746356	0.0000000	5.499977	5.4180516	1.0501186	0.0000000	9.334362
##	132	8.610950	0.0000000	11.168488	2.2978370	3.4026403	1.4547023	13.075465
##	133	7.067142	5.3029258	15.940450	9.5119366	9.1050345	0.4777809	12.880436
##	134	9.784200	4.4826289	12.277419	8.4864240	3.6004482	2.2958406	11.355870
##	135	9.655645	4.0787208	7.114498	0.9390008	2.4817639	6.7630450	13.468710
##	136	11.022136	1.6497074	9.640876	5.7891215	2.7132339	9.6516523	9.967226
##	137	8.770083	2.5612039	11.347063	7.7264518	3.8384778	0.0000000	11.419299
##	138	2.816927	0.0000000	7.025505	7.5335532	11.5100891	0.0000000	6.143238
##	139	5.193330	5.2511169	9.438034	2.9220836	2.6050439	1.4825385	8.924174
##	140	9.643691	0.8793921	11.347596	4.5391712	0.5056877	0.8793921	9.277630
##	141	3.519416	6.1176535	13.652013	5.4082159	1.5911528	0.0000000	9.714193
##	142	6.501603	6.5236404	8.620629	4.2578630	10.1655345	4.3836836	10.712349
##	143	4.568099	2.3124328	6.863058	4.9843843	3.8782153	1.6617040	8.891473
##	144	6.294527	4.2150184	3.506234	4.7131954	3.9880666	2.5743680	12.471842
##	145	2.695348	0.3654686	9.495769	3.5081244	7.3513333	0.0000000	10.491018
##	146	6.287993	2.3877210	9.803738	4.0868262	1.9344033	3.6734660	13.309207
##	147	14.159184	0.4521737	12.365243	4.9796230	1.3058538	1.0733404	10.964514
##	148	3.700972	0.0000000	6.919435	7.7819341	8.8573127	0.0000000	10.407420
##	149	10.637427	6.3336044	10.464663	4.2935029	1.5165195	9.5447377	11.419567
##	150	3.142495	0.5465611	8.248336	5.8608759	2.0787123	0.0000000	9.584827
##	151	8.099307	2.0139267	12.169015	1.4712915	3.1457264	1.3330802	10.110967
##	152	5.292590	4.4975102	5.164847	9.0095062	6.8266591	0.5010060	13.550446
##	153	3.457542	4.8597957	5.815186	6.5418664	5.2719485	0.0000000	11.610684
##	154	5.081293	0.9685700	11.072235	5.9672378	2.3636477	0.9685700	10.736085
##	155	6.290745	0.3472121	6.944782	2.9641398	4.8459366	2.5603726	11.568718
##	156	9.424015	5.1032794	6.808429	5.6385633	10.3366788	0.5831339	14.502426
##		rs_TSIX	rs_GRM4	rs_HRASLS5	rs_CCNO	rs_ADCY5	rs_TDRD1	rs_F7
##	1	4.665887	4.3720188	8.0114632	9.6705975	8.8232583	0.5144000	9.1004736
##	2	3.573278	1.6630713	3.8800782	7.3533118	6.2364429	1.2895984	6.4600512
##	3	5.382055	5.5347744	6.1692195	3.3937868	7.9387151	2.1017173	2.6975514
##	4	3.939029	8.7557749	7.5560546	0.4889263	6.9500309	0.8535167	1.9350825
##	5	5.852471	5.2268977	11.3201595	7.9806240	6.3262371	2.3109217	6.8859916

## 6	10.807005	3.5075917	6.4701399	5.5595469	3.8039296	1.3538878	1.3538878
## 7	6.947545	3.6518668	4.2280567	4.7871242	4.5933060	9.9543854	2.5882049
## 8	7.821524	4.1163315	4.0268355	3.4704458	5.1181230	0.7617108	2.1626612
## 9	9.658607	2.7473874	6.7759131	4.8607443	1.0279325	0.0000000	1.6220870
## 10	8.275573	6.8464457	9.2315145	4.9033517	6.3588815	8.0498752	2.4545971
## 11	9.172650	4.4424592	6.2404460	5.6296830	9.1319945	0.7390704	10.1324294
## 12	3.265662	8.9209233	8.3636591	2.4456473	8.4302790	2.7136298	5.4470568
## 13	4.454834	2.2302645	0.5474498	3.4184463	2.3656086	1.5089864	0.9433588
## 14	6.479358	5.3650801	10.6685975	6.6466768	5.1367779	2.3280897	4.9616650
## 15	6.233570	10.5636357	5.3455596	7.4033478	3.0880228	4.5331085	6.7904045
## 16	8.198447	5.0970081	8.4042654	9.1733596	3.0675527	1.5088850	8.8093611
## 17	3.610275	9.6998944	2.2517191	1.6277469	9.7671935	0.0000000	6.7607732
## 18	4.970278	8.7929051	9.9416874	6.4540821	9.3394309	1.3375969	4.8706162
## 19	8.003762	4.6144272	7.4243368	9.1396189	5.7084190	8.1617935	4.3360905
## 20	6.976267	5.4909487	6.6787959	10.2518120	9.8252207	0.0000000	9.2458417
## 21	8.155204	6.5268795	2.2117287	6.5765297	8.9536255	2.4434740	7.7955098
## 22	7.052572	3.7832157	3.5494720	2.5710214	1.6132016	0.0000000	2.2347466
## 23	9.765879	6.4765729	1.5278210	0.9573203	2.6274901	2.3889610	5.6699253
## 24	9.866004	1.0764907	2.2314939	2.3407901	3.3031670	1.0764907	1.6860298
## 25	4.476220	5.6347704	4.3693199	8.7465220	2.2836551	2.4630731	6.4119821
## 26	8.634436	2.3201092	5.2072447	2.0686708	8.8337835	2.3950628	7.5165904
## 27	4.617916	7.5618485	5.9866453	5.7084963	5.3761098	2.6736016	4.2153136
## 28	6.282236	6.2246269	2.4749811	1.8019864	8.3541065	0.5002922	8.9979108
## 29	4.648373	2.5414405	10.2096092	2.2067370	8.8660323	0.0000000	2.8735179
## 30	5.520777	2.1188580	8.3291653	6.7094285	8.7093327	2.2372884	5.6449724
## 31	8.184898	4.2688311	9.8229290	8.5349487	3.5021524	2.6241711	2.6241711
## 32	2.219122	3.2358955	8.7043892	3.8412989	5.0566139	1.4617381	5.1593386
## 33	5.257165	3.0770550	9.4110306	6.2631452	9.5954112	3.0770550	7.9474195
## 34	4.025047	6.5039020	10.7779260	6.7049757	5.4273212	2.4271502	5.0805340
## 35	5.803532	5.8780362	4.0958822	10.5381044	9.3574594	9.2305184	9.1285788
## 36	5.839975	7.3573514	5.8869305	3.9582766	7.9203981	1.1911204	3.0482187
## 37	5.297709	10.7328610	10.4230453	6.5004738	5.6083066	8.9926390	2.2851950

## 38	10.587332	5.3356869	1.2669364	10.9445111	2.8457510	1.8204036	7.2957827
## 39	3.617169	2.6472454	4.5737259	6.1177241	7.2678700	6.4928402	6.2146572
## 40	5.504605	3.0679828	5.8133810	5.9914175	5.2081505	9.2979530	3.0116566
## 41	6.392537	2.4820996	2.7861154	2.0964305	0.4088205	0.0000000	2.0964305
## 42	5.149080	5.9640289	5.0857306	8.8542569	4.1276003	8.8693557	5.7397158
## 43	4.271299	3.5484366	9.0185070	0.9196833	1.4767964	1.8777442	1.8777442
## 44	5.846072	2.9189586	7.3913553	7.5633084	4.6294674	2.5850587	4.8949244
## 45	7.092347	4.9204172	7.5836454	6.6449046	6.2874501	3.3607576	7.4123658
## 46	5.610042	7.1549750	4.8801467	8.5834679	7.4983482	2.2163928	6.6520763
## 47	3.966080	8.7751892	7.8689398	8.7224752	6.9404710	2.3874177	5.2662206
## 48	4.379261	7.7012767	6.1061117	8.9076040	7.5538190	1.4505910	6.1000504
## 49	4.713338	8.0464840	9.6917873	8.5698036	5.2805926	0.8907969	9.4883525
## 50	4.074394	6.4953450	6.6879229	7.4292008	7.5703498	2.7650255	8.0919193
## 51	2.133300	3.0509718	2.7448930	3.6694464	2.4425455	0.0000000	4.3454177
## 52	5.682014	3.5720044	7.4491594	8.7590656	4.2529227	4.5267574	9.4996490
## 53	4.016987	4.6221045	1.8580208	7.4585912	6.6779958	1.7211539	8.5933306
## 54	4.303481	7.2758358	7.4759668	3.1952846	8.5599812	7.9245227	8.4368914
## 55	5.071153	1.7592411	7.8132149	7.3504477	7.0333569	5.1040431	8.1735082
## 56	2.059771	0.0000000	7.9935889	5.1026791	0.4924172	8.3845580	0.0000000
## 57	3.716332	4.2249278	7.2443743	6.6224575	9.5988751	3.1613556	6.2909349
## 58	4.393306	4.5498724	9.2698771	5.7250322	7.1262326	2.9499084	5.2417754
## 59	2.838367	5.2407799	5.3173656	2.5865246	3.1138505	2.0838941	2.5865246
## 60	5.794400	7.1774484	1.8863941	3.4916992	6.6895550	1.5300208	6.0265766
## 61	5.735284	10.5764687	10.2799985	5.2412949	9.3852841	2.3093217	4.4393173
## 62	6.041953	9.6434121	5.5633839	6.2092896	7.8477452	0.9184626	0.9184626
## 63	4.194954	6.1470339	7.3191238	1.8906412	7.9413646	2.3397075	4.0623376
## 64	4.627817	3.1474695	8.5396288	6.6891985	9.1238335	2.3610384	6.6717406
## 65	3.939866	5.6576714	2.0085586	4.9003355	2.6376102	1.0701145	1.5480913
## 66	4.128731	3.4777421	10.7920693	7.2915824	8.6577747	1.9033083	3.5127958
## 67	8.855756	1.2229282	8.3467340	6.4712720	7.7037070	4.2739336	4.6057847
## 68	4.955108	8.1002113	9.5057996	5.2485007	7.8214628	2.0393139	5.1634102
## 69	4.215446	5.2701776	6.2894509	8.7470802	6.8213582	4.8619405	7.3031350

## 70	5.661382	3.9189968	2.9157886	6.7842540	4.5481592	0.0000000	4.0447875
## 71	4.664506	6.4136669	5.9918121	5.9767348	4.5407774	2.1071187	8.1729515
## 72	8.328943	2.2654669	9.7400350	2.0166746	10.3560076	2.1464271	4.4557809
## 73	4.859721	1.6136731	6.9732198	1.6136731	6.4173597	3.2863045	2.8441446
## 74	3.807530	6.2265124	8.7763133	1.2953116	4.2939222	4.0872676	3.7242574
## 75	6.192457	2.4447731	8.2532660	6.8959715	8.6104391	4.0213109	6.8998125
## 76	6.730364	3.9393206	3.1579007	8.3634028	3.4345882	0.0000000	8.8756680
## 77	4.695626	0.0000000	11.9387135	1.8261112	9.5526691	3.8823985	1.6025044
## 78	5.150483	3.7779457	7.6969161	2.1199205	3.3271268	1.4186757	3.1750615
## 79	3.083962	0.0000000	10.8676848	2.6216651	9.2336937	0.0000000	3.6252939
## 80	2.832222	3.1897139	3.1240138	1.9424207	2.7413591	0.4918018	0.8579014
## 81	3.677226	0.5732776	10.9832175	4.9881211	9.4804011	5.6235713	3.8251038
## 82	4.800418	0.5350576	10.6341170	4.1014148	9.8464664	7.9007962	1.6983074
## 83	5.142810	8.6206601	4.5906799	6.2949019	9.0456925	1.3745109	8.3832330
## 84	4.985327	4.0812459	6.9690353	3.0089171	7.7800410	3.2654669	6.6582115
## 85	6.054427	0.8717648	4.1597987	5.0116119	2.5116198	10.8913877	3.1734633
## 86	3.106616	4.4666663	6.3615912	7.1179786	10.4904358	0.2980717	1.1025238
## 87	4.033863	6.1906603	9.5874794	7.2068034	6.6267151	3.2112770	6.0466307
## 88	5.372506	5.6201993	7.0568122	1.8007032	5.7457133	0.0000000	3.6918133
## 89	9.410071	3.2774790	2.5776101	7.3183946	2.3621051	2.9309076	4.6449522
## 90	5.521585	4.3578898	2.7165081	4.2467805	9.9027382	1.9208268	7.6699275
## 91	5.548921	5.9363223	5.4003125	9.6384073	4.0988574	2.4066999	8.5806630
## 92	1.815944	7.1205790	2.1008095	9.3749927	8.5091309	8.9276150	4.9910184
## 93	5.261929	0.4209405	2.5220055	7.7285804	6.7960110	1.7535618	7.7100232
## 94	5.398409	5.1566595	5.6103162	8.6931175	6.3691506	2.2402838	7.3927356
## 95	3.818247	2.0132836	1.8010759	8.1692210	2.9309644	5.3970397	7.5853802
## 96	4.853432	7.6556338	4.5539318	2.4355486	3.6899812	0.9121900	9.0358089
## 97	0.000000	1.4824869	5.5190543	4.5865426	4.0746168	3.8235354	1.4824869
## 98	3.875780	7.0922571	3.5918469	5.9172718	7.4091389	1.7734900	6.1172254
## 99	0.000000	4.9776325	4.2323614	5.6693868	7.3909325	1.6890755	5.7137425
## 100	5.963798	4.3335096	6.4588118	6.1349396	1.3067872	8.0569541	6.6614589
## 101	4.590812	6.5402071	1.2018847	9.2959257	11.3697356	2.1312602	8.2329965

##	102	4.785551	2.4329594	10.4682167	4.0874628	7.5125430	0.0000000	2.4329594
##	103	5.811697	7.4167562	8.4579939	10.4700514	3.9341107	0.0000000	7.9603026
##	104	6.712449	8.2652906	1.8902910	7.3525175	7.1196093	1.1111649	9.7072915
##	105	0.000000	2.5450293	9.9424449	1.4290535	2.9580260	3.3142470	0.9761436
##	106	5.103137	5.9816792	8.7888309	4.8949244	6.4574925	0.9542708	4.0001082
##	107	4.050397	3.0419964	8.4428581	1.8207712	4.5279836	2.0895998	8.1494342
##	108	5.579775	5.8763671	7.9351250	7.2218491	6.6304870	1.5998890	2.8843635
##	109	6.388990	4.9881575	7.4527289	2.9415383	5.9021677	3.1729195	2.7636878
##	110	8.197372	7.5619172	1.5830376	5.8879371	6.2701738	0.7357821	3.8046835
##	111	5.517279	5.6212724	4.0483844	3.5591002	7.0307653	2.3573831	6.7706348
##	112	6.002745	4.5541590	7.9223834	4.6530084	5.9882416	0.5023306	4.7000068
##	113	7.465270	5.3927742	6.8327318	7.4553881	5.0690748	1.3831651	7.1470197
##	114	4.924623	4.9673024	2.9979066	3.4128628	7.5547546	2.1136338	7.9283449
##	115	4.057502	4.0543797	2.3795932	6.3268591	2.2026998	9.1571739	2.3795932
##	116	4.433867	4.8613549	8.1807272	9.2371631	4.7607372	0.0000000	6.5796554
##	117	4.311380	6.4004713	3.8785978	1.1531568	10.7567676	0.9849174	2.8806268
##	118	2.499093	6.5556137	4.8320191	4.2565352	2.5842169	4.6995738	5.9735286
##	119	5.590003	3.8092601	8.5511688	9.6645735	5.6729429	2.3536338	8.7741410
##	120	1.700040	5.3735717	7.3186531	6.3976524	9.2850262	4.4079577	6.7584418
##	121	4.900490	5.9893275	4.9068233	4.5640855	8.4243612	0.9306995	7.8500218
##	122	5.780284	4.3578968	5.6866098	7.9599521	8.6631283	1.9208268	6.2457428
##	123	6.407591	6.8615224	6.3828142	9.4508997	5.9213792	3.9665874	7.7563735
##	124	3.675635	6.1454492	8.6953299	7.1383609	8.9115813	10.1348816	2.3159140
##	125	6.969071	3.8089616	1.6792436	7.6046081	8.9983436	1.0008654	6.5501511
##	126	5.387952	3.9784977	1.9828385	0.5077185	9.6550484	0.0000000	1.6364506
##	127	6.459186	3.2533237	9.1629992	2.8878567	5.3516566	0.0000000	8.0531325
##	128	3.678387	6.1546379	2.8166611	6.5806023	8.9819725	0.3650206	2.6936765
##	129	5.325775	4.0457313	6.4492675	2.8659188	10.2654959	4.0086213	8.3762192
##	130	1.540176	5.1097784	2.7645372	8.0322585	3.3372687	7.4049516	8.0638475
##	131	5.377630	1.2795307	1.2795307	0.7771988	11.7719327	5.6094890	3.3106600
##	132	6.741579	6.6409780	9.5708101	8.8704208	9.2117267	3.1431322	6.0787913
##	133	3.830590	5.7963382	6.1069136	3.5361400	5.2592273	0.4777809	3.8028549

## 134	5.322519	7.5250149	8.1346425	7.7871366	6.3560452	9.3736378	8.9950591
## 135	5.056345	4.0255427	2.9496843	5.8996010	6.4002083	2.4817639	8.5538554
## 136	5.616822	3.1202856	8.7389384	4.0719943	7.4512606	1.1906781	6.9051367
## 137	4.942252	5.6034483	7.5272690	2.8683905	5.7230315	3.9074291	2.7975111
## 138	10.510846	2.9837689	7.5928532	0.8982471	1.2867038	0.3650206	1.2867038
## 139	6.525385	5.9751372	2.6050439	11.1772740	2.9779210	1.4825385	6.5362565
## 140	5.220508	4.1532054	1.6318493	5.0029860	3.8088278	0.0000000	6.1772920
## 141	7.038027	0.0000000	4.2867703	6.6730857	3.3011047	1.5911528	1.7720968
## 142	8.557969	6.9752954	7.6369805	8.6696292	3.9350637	7.2310695	3.3313613
## 143	9.295570	2.2036710	10.2168334	8.2007059	1.0579701	4.3558127	1.9579889
## 144	5.487830	2.0544665	5.5393356	6.4438619	1.8888114	7.4726210	3.1142671
## 145	6.524515	2.7581752	2.7581752	4.9798607	1.9570602	1.2876496	1.5935450
## 146	6.208646	5.1237655	7.7292448	8.6433912	2.2518403	0.5562087	2.7321389
## 147	5.303715	1.0733404	5.5090149	7.7741769	7.8218964	1.0733404	8.1996581
## 148	3.103162	3.0361340	5.1864292	5.2785461	2.0004327	9.0229439	1.1378314
## 149	5.023149	4.5895358	6.8855988	8.3729121	1.0817487	3.3652586	9.1408454
## 150	9.179406	0.0000000	7.5368883	5.5844515	1.2521128	1.2521128	0.0000000
## 151	4.052616	8.6695633	9.2058778	3.8501493	9.0588122	1.1802752	6.9667754
## 152	3.794759	9.6146992	4.4707451	6.7783702	8.4620589	8.4294214	9.9620097
## 153	5.177583	4.5407465	3.2402227	2.0259147	3.1178945	8.8465482	7.6627204
## 154	6.778156	4.4835965	5.1215045	3.7823247	7.7947577	2.9445961	2.8835426
## 155	5.617783	9.0785920	9.6997272	1.3966527	6.0571730	9.1165753	9.0669258
## 156	4.366770	7.4984559	11.1481545	7.3783365	3.0827026	0.0000000	4.6386705
##	rs_TPSG1	rs_ACTG2	rs_LGR6	rs_CARTPT	rs_POF1B	rs_PRSS21	rs_FAM83E
## 1	8.2330564	9.306799	8.8886142	0.5144000	5.0869154	2.8068808	8.2392056
## 2	2.0875986	8.907640	7.7589434	0.0000000	8.1057828	1.6630713	8.3663659
## 3	1.8321204	10.037829	4.7336743	0.0000000	6.1765342	2.5249162	6.6351681
## 4	1.1442422	7.972268	4.3479916	1.9350825	8.1260132	1.3860936	8.7544276
## 5	8.0026766	7.482947	7.1582401	0.0000000	7.2809248	1.3700527	4.3514587
## 6	0.0000000	10.425177	5.0736617	0.0000000	6.8206028	5.9099795	4.1372986
## 7	1.3463045	8.620570	7.5519497	0.0000000	3.6069159	4.7871242	5.7191177
## 8	0.0000000	15.539413	10.3617107	0.0000000	2.1626612	2.0460020	3.3278454

## 9	0.6035967	10.434667	8.8100909	0.0000000	1.3553546	0.0000000	2.5048492
## 10	10.3309299	7.041990	2.2224027	0.0000000	1.6026944	0.0000000	6.8667325
## 11	3.5271454	7.253192	4.3508155	0.0000000	8.1584108	2.7414670	7.4971229
## 12	0.8001648	6.621753	5.2362553	0.0000000	9.6258969	3.1944338	1.9873936
## 13	0.0000000	9.171218	7.7147188	0.0000000	6.8797633	0.9433588	5.3135252
## 14	3.0656929	10.770646	7.5021945	0.0000000	6.0736896	4.7623169	4.8654289
## 15	1.4784542	7.528676	4.4878786	2.4026130	1.8078083	0.0000000	1.6525094
## 16	8.5481561	5.614492	2.0807600	14.6479844	5.6678496	7.3768234	2.8071694
## 17	3.8871353	6.171331	3.1607750	0.0000000	8.3498376	3.9664397	4.2775831
## 18	6.8192620	9.743881	4.8129910	0.0000000	7.0314448	0.4665488	5.7670059
## 19	0.0000000	10.249140	8.5863658	8.5592260	4.2518100	4.6641870	7.5531754
## 20	2.3393940	7.022828	5.2065143	0.0000000	9.3986313	0.3644604	7.4454354
## 21	1.9354975	10.039962	3.6672336	0.0000000	10.1835626	0.4891319	3.6672336
## 22	0.0000000	6.262706	9.3445043	0.0000000	3.0727061	0.0000000	2.1026245
## 23	1.5604215	8.035240	3.6748674	0.0000000	8.6053454	1.2705887	2.3889610
## 24	0.4537546	11.292600	5.6377696	0.0000000	3.0040879	8.4599914	2.5372961
## 25	0.0000000	7.539715	11.9314336	11.9335757	2.5450788	7.9275605	8.2452404
## 26	0.0000000	7.216912	3.0797877	3.9175368	9.0477625	1.2210728	8.3455778
## 27	4.6248554	9.165336	7.0707006	0.4422269	3.9057841	2.3061164	3.1523457
## 28	2.5787214	4.760966	7.5445743	0.0000000	8.0181351	4.1358878	4.0662012
## 29	6.1781091	5.901219	3.8935952	0.9291092	5.2157912	3.4521737	7.8921803
## 30	1.0803166	11.342675	8.6140612	4.2351373	7.7456118	5.0258261	6.6625829
## 31	10.1454244	6.012861	6.8106089	0.0000000	8.2748529	2.1940871	8.6233643
## 32	1.0374525	7.560098	4.0993289	0.0000000	9.2065861	7.3558532	7.5302862
## 33	2.8118820	9.143759	7.6238457	0.0000000	6.3089851	3.0151942	7.3287566
## 34	4.4888749	7.167237	6.1148084	0.0000000	6.4757902	1.6731493	3.9493762
## 35	4.2701477	5.895877	2.8520588	0.0000000	7.3299981	1.5005471	7.4066651
## 36	0.0000000	9.187807	8.0610622	0.0000000	6.2694372	6.5584529	7.3797578
## 37	4.8135298	8.227624	6.6747191	0.0000000	4.6745284	2.4072984	8.8771945
## 38	3.4760057	5.601138	2.3839393	0.0000000	2.3040145	6.0684043	0.3576083
## 39	1.6751836	4.069891	3.0035303	0.0000000	10.3865935	3.3523772	6.7259551
## 40	0.4017397	6.792160	4.5922417	0.0000000	5.5222535	0.7157177	3.8243911

## 41	0.0000000	7.980901	9.3916614	0.0000000	3.2996110	9.4522979	3.3468293
## 42	0.4589069	7.618446	7.6074043	0.0000000	4.8809206	2.8810968	2.1278974
## 43	0.0000000	7.801056	3.7531017	0.0000000	2.6667566	7.7630683	7.7301243
## 44	1.1699891	8.872018	5.6547477	0.0000000	8.6709901	3.3310172	7.0608083
## 45	3.1666351	6.686515	4.8242791	0.0000000	7.6018822	5.1948396	2.7774723
## 46	0.0000000	12.714964	10.5616213	0.0000000	3.1142504	5.7222392	7.2854993
## 47	3.1472578	6.911781	3.1472578	0.0000000	1.3285493	3.2424958	1.1435240
## 48	3.7464740	10.073637	8.6724946	0.0000000	4.8590005	3.6501671	6.1941225
## 49	0.8907969	6.724972	3.0212132	0.0000000	2.8608039	1.4374408	1.8329305
## 50	6.4321761	7.447951	4.4762391	0.0000000	3.8923619	4.8266705	8.3852593
## 51	0.7081431	6.143812	7.5122182	0.0000000	8.8278892	1.5366000	7.0939689
## 52	0.8455904	7.616703	4.0595976	9.1888976	10.3883044	0.8455904	8.3126566
## 53	2.2046103	6.582433	4.4378070	0.0000000	8.6031029	4.4378070	5.2755956
## 54	5.6553890	6.183149	4.2003474	0.7735744	6.5483472	3.6267312	6.0885445
## 55	6.4056623	5.542790	6.1328051	1.1326426	5.0401121	8.1494713	8.1868546
## 56	0.0000000	12.554992	8.4192625	0.0000000	3.2545185	0.0000000	4.3878381
## 57	2.5098985	11.151549	8.0850687	0.4448791	6.6845691	5.0972610	4.9865566
## 58	4.0888794	9.267629	9.3256794	0.0000000	6.3067234	3.5324416	5.6441735
## 59	0.0000000	14.419604	7.8351181	0.0000000	5.8015881	7.5455684	3.8030100
## 60	6.6513574	5.139658	3.4916992	0.0000000	5.2044068	0.0000000	7.5139755
## 61	2.8251547	7.534753	7.4939267	0.3832757	4.3124764	1.6463470	6.6730249
## 62	0.9184626	7.783140	3.2637406	0.3748447	6.7364709	0.6721085	2.5955275
## 63	6.9552407	5.100494	3.6909981	0.0000000	5.5804048	0.8579014	8.4954329
## 64	7.2867980	7.037019	7.8232787	0.0000000	2.9297531	1.8000819	8.3875219
## 65	0.0000000	10.821404	3.4816993	0.0000000	8.0281873	0.3503841	3.1654296
## 66	3.2473351	3.904715	9.2251228	0.3494785	8.4302577	0.6304987	6.8996192
## 67	1.8751510	12.380882	8.8568668	5.7823037	7.8713225	7.7013973	5.7468985
## 68	9.1971992	10.230064	6.5257259	0.3907777	7.8392082	1.6678467	6.9634568
## 69	3.4245594	9.312801	7.7496750	1.6031219	7.7313435	2.7840223	6.8612445
## 70	1.2498700	5.879794	3.4583558	0.0000000	4.9369159	0.7562547	5.8713287
## 71	2.3132459	8.398092	4.8910449	4.3971595	10.6420920	8.8748600	8.8977227
## 72	2.4775996	7.097486	5.4479230	0.0000000	4.9580910	2.9735194	7.9964978

## 73	0.5994130	9.432397	5.8938476	0.0000000	4.7691529	2.2033578	1.3477790
## 74	7.6455295	5.331526	2.1668440	1.7341785	9.4505143	0.3683772	1.7341785
## 75	2.1673900	13.094264	9.7907751	2.8775872	7.3562944	7.9959689	7.5446886
## 76	4.4681988	8.028041	7.5473210	0.0000000	1.7068178	0.4619476	0.8113066
## 77	0.5937840	7.513900	4.3468364	0.0000000	3.1106138	2.3429245	1.6025044
## 78	0.0000000	12.450279	10.1212544	0.0000000	2.7418768	0.4165155	3.0639861
## 79	0.0000000	7.761414	3.9479466	0.0000000	4.1707503	1.3484591	0.0000000
## 80	0.5166203	9.667154	4.7328987	0.0000000	8.1421433	0.4918018	5.6127476
## 81	1.7821989	11.954410	7.3442453	0.0000000	7.0890299	3.1385524	2.7771146
## 82	2.3337958	11.656319	8.5387810	0.0000000	5.3720153	2.3337958	4.8273668
## 83	3.2869255	7.779665	6.5734866	0.0000000	9.3272365	1.8697135	7.4124894
## 84	4.9309218	8.306817	4.3449066	0.0000000	6.3286462	6.6656514	8.2260913
## 85	0.0000000	12.813538	5.6899253	0.0000000	4.3479349	1.0748479	7.9168582
## 86	6.8188429	6.466389	0.2980717	0.0000000	5.6336114	0.5448810	6.4284573
## 87	6.8536177	9.408231	8.4054398	0.4119685	7.2260383	0.7319652	8.7612677
## 88	7.5310640	5.810998	0.9953036	0.0000000	7.2575000	0.5818815	2.7993567
## 89	9.0992544	6.492432	3.1486576	0.0000000	5.9799842	8.3655023	7.7845328
## 90	5.9505221	4.167655	0.3257318	15.3963150	7.2596359	6.8705558	2.1846929
## 91	3.4242100	5.822106	3.9394241	0.4421208	6.0342884	4.1287388	7.4474048
## 92	2.3747891	6.829586	1.9965334	0.9237957	10.0366436	2.6741894	7.4687169
## 93	9.2895648	7.363342	1.7535618	0.0000000	5.9140119	3.1364047	2.6828879
## 94	1.7190958	8.117855	5.2465145	0.0000000	5.9549291	4.9714286	7.0248781
## 95	0.8705028	7.240257	5.3780087	0.0000000	5.7915562	4.9585643	7.3926231
## 96	1.8662354	7.683753	2.6534270	0.0000000	5.3774292	2.0309716	0.9121900
## 97	0.0000000	5.228176	5.6791760	9.4033027	4.0487767	2.7402368	2.1008095
## 98	3.8896390	7.270724	1.9123816	2.8519589	8.1160008	2.0391033	4.7869518
## 99	1.1834548	6.312769	6.9203398	0.0000000	8.4191364	0.0000000	1.9486382
## 100	4.5607333	8.909928	4.9062845	8.2762877	7.6543152	9.0381536	9.9852635
## 101	3.0946246	5.303470	4.6986352	0.8320393	9.3850433	2.8035990	2.1312602
## 102	2.5360529	3.867896	6.8703647	0.0000000	6.8752886	0.4854268	7.9248125
## 103	0.8312287	5.924582	3.4763687	1.0278618	6.3259044	6.7688711	6.7619833
## 104	0.8265993	8.116425	4.3183168	0.0000000	8.4663918	3.5162421	6.6214248

## 105	1.6673472	6.274478	0.0000000	0.5691022	8.8285592	0.7869309	6.1522747
## 106	3.7549944	7.989507	5.6457679	0.9542708	4.7682955	0.3923174	6.7407360
## 107	10.5126352	5.816536	3.9174986	0.7854250	1.2911910	8.0855346	8.1695162
## 108	3.8716465	8.587235	4.3328010	8.7428857	6.1064300	1.1114988	7.1232037
## 109	1.4760706	9.051699	6.4425853	0.0000000	4.7220616	3.6013518	5.4663628
## 110	3.4568061	8.529806	6.6929530	0.0000000	6.0986975	2.8719816	4.1127585
## 111	0.9648052	5.711382	6.5243975	0.3975839	8.6431145	0.9648052	0.9648052
## 112	4.9920297	10.834350	7.5801244	0.0000000	7.9853928	5.1356990	8.7271870
## 113	3.4662747	7.352659	2.9700253	0.0000000	7.2572964	5.6684397	3.8348123
## 114	5.9265593	4.457141	7.2487009	0.0000000	4.3434931	4.1676550	7.0492779
## 115	1.1382247	7.427603	4.4607164	0.0000000	4.5741802	5.5982520	6.7292537
## 116	2.0921059	7.649176	3.2945472	0.4075159	1.8523984	2.2976023	4.7950604
## 117	6.6683858	5.577622	6.0575781	0.0000000	4.3634374	0.3159140	9.0331163
## 118	1.5229597	8.143122	4.6284937	0.0000000	10.2462852	3.0866649	9.0431528
## 119	5.2600972	8.471256	4.0370835	0.0000000	3.1504947	6.6733359	7.2487132
## 120	4.6867134	2.985573	1.5176284	0.0000000	8.1669097	0.3405053	0.6156988
## 121	3.7423620	10.371743	6.6730207	0.0000000	9.0002846	0.9306995	6.7295541
## 122	3.6828317	6.077367	3.7956838	0.0000000	4.9192161	6.3230944	3.3299703
## 123	3.3617543	7.413940	2.5842169	4.1517939	3.8642357	5.7786002	6.3579179
## 124	0.0000000	6.364928	2.6331057	3.0611195	7.1352229	2.1266425	4.0272071
## 125	5.0631966	7.207269	3.1390438	0.0000000	3.1390438	3.0015140	7.9994696
## 126	8.2730552	2.873242	2.8732423	0.0000000	2.8732423	0.5077185	7.8510313
## 127	7.0076272	2.663299	1.8030617	0.0000000	4.5488065	7.7772178	7.6552574
## 128	2.8862965	7.515194	4.7029345	14.8072407	4.6039349	0.3650206	4.4604018
## 129	0.5051796	5.075011	0.5051796	0.0000000	11.5092467	1.4207788	0.0000000
## 130	0.0000000	4.493481	2.8498592	0.4997821	8.8739903	0.0000000	3.5561473
## 131	4.7792440	4.699452	2.0745054	0.0000000	1.9467683	3.5925766	8.2912946
## 132	5.9010624	13.300139	8.4297992	0.0000000	7.5220165	2.6375871	3.8132579
## 133	0.4777809	6.369199	4.9649346	0.0000000	9.7129415	4.1918153	5.6232845
## 134	4.9659782	8.053663	4.2964134	0.3793992	7.6426070	2.6812918	8.2488929
## 135	5.5023624	9.579867	3.9129372	1.5029925	3.1616620	2.2229900	5.7922723
## 136	4.8474809	8.209443	5.1550287	0.0000000	8.4435938	0.5134907	7.7321939

## 137	2.1703738	11.726774	7.2570182	9.2819268	7.6828668	5.6034483	6.6849702
## 138	0.0000000	7.313578	10.5844066	0.0000000	2.1554902	0.0000000	1.1054769
## 139	0.3775125	5.619105	2.2892148	0.0000000	3.8833276	0.6763577	1.6292400
## 140	5.0078907	6.422951	2.1238317	0.0000000	6.8320077	0.5056877	7.8755165
## 141	0.0000000	6.787913	6.3772209	0.0000000	4.6756579	3.1781569	6.8646752
## 142	7.6785797	6.736733	4.2578630	0.0000000	4.3346612	1.4559650	3.6445947
## 143	0.0000000	12.276117	7.9544709	0.4443490	3.7679514	10.6649600	3.5631093
## 144	2.0544665	6.458718	5.6599445	0.5366498	0.0000000	1.8888114	6.3191591
## 145	0.0000000	9.003522	9.8486459	0.0000000	7.1047434	6.1211750	4.4622814
## 146	8.9941220	9.190454	4.2383207	0.5562087	2.7321389	5.6817107	4.7975785
## 147	7.4967475	5.295760	1.3058538	0.0000000	0.7959331	1.6818990	9.4602798
## 148	0.0000000	12.688653	3.0361340	0.0000000	2.8078495	8.1664870	0.6782522
## 149	9.3270927	5.884175	2.6347791	14.6475198	6.9390902	4.5670586	1.3154503
## 150	0.5465611	8.076818	3.3522359	0.9420077	2.4870232	0.9420077	7.0322563
## 151	7.8402498	8.990782	8.8258712	2.0139267	7.2254465	6.4106549	7.0545902
## 152	3.1626129	6.560888	7.8282184	9.2349819	3.5083019	2.4768483	8.3155952
## 153	1.3426685	9.067116	3.7322692	9.8401524	10.3287530	4.5643538	6.1862529
## 154	1.3756789	11.575406	9.8048746	0.0000000	7.1135349	2.0668814	5.9224143
## 155	1.2392147	6.876252	8.3568798	3.9723159	1.6677559	1.9976898	6.4155762
## 156	3.6388848	9.838527	7.7528483	0.0000000	1.3186928	2.5804591	0.0000000
##	rs_PTCHD1	rs_SYNP02L	rs_MYT1	rs_PRODH	rs_SHISA9	rs_DEFB1	rs_VIPR2
## 1	0.5144000	4.1463049	4.2144746	10.4593060	3.1921468	7.7581366	5.6744550
## 2	3.1016837	7.4812917	1.0590091	9.4008671	3.5202211	5.6050231	2.7188329
## 3	2.8517191	2.6138145	5.9043275	3.5370599	4.7336743	5.3912659	4.5626637
## 4	1.5931625	7.3251210	11.0093477	11.8793591	1.1442422	0.8535167	2.5160404
## 5	2.1908677	9.2241660	0.8418926	7.1010995	9.5790649	3.6877214	3.7331265
## 6	8.3218533	2.0398403	1.6204457	4.6356906	4.1372986	8.7427672	1.8137709
## 7	7.3313317	0.8248086	0.8248086	7.3688425	4.6161753	8.7189181	3.2601461
## 8	9.3669916	0.4304994	1.7799321	8.3947396	9.9738516	4.2276256	3.8897169
## 9	1.0279325	1.8470749	2.7473874	6.7482908	1.0279325	3.4424658	2.0343918
## 10	1.6026944	8.7234033	5.8690200	1.9455702	8.0718860	2.8300930	1.2392758
## 11	2.3261634	2.4193501	5.1616539	2.9432087	7.8254549	1.7406686	4.2105603

## 12	5.9052667	1.6888070	1.5125809	6.2871417	1.3118518	5.0225809	5.3087395
## 13	4.4744360	0.9433588	0.5474498	4.9541405	2.3656086	4.8425364	2.3342536
## 14	3.2799318	3.0656929	3.5513807	6.9105276	7.9599399	5.5415272	5.2046885
## 15	0.4407396	6.4682428	5.3953987	4.6403491	6.5585110	2.7477741	3.1595808
## 16	0.9432837	8.1677759	3.4792694	2.3654686	2.3654686	1.2536263	9.0029137
## 17	1.6277469	0.5039593	6.3446084	3.6191313	8.9794609	5.9452963	1.3223897
## 18	6.4603510	5.3473042	6.8899857	3.8443756	0.8186052	1.1013139	4.8706162
## 19	3.8546739	0.6536104	6.3590871	3.8546739	4.8332241	7.7503553	5.4551694
## 20	1.5906260	2.3287216	7.1362242	3.4291473	8.1862212	3.3500304	3.1797499
## 21	1.5935928	1.9354975	0.0000000	5.3126942	7.8520450	0.4891319	0.4891319
## 22	1.1606621	1.1606621	1.9571717	3.3307018	1.9571717	6.3084064	0.0000000
## 23	6.0439438	2.6274901	1.7460117	9.5885702	8.4293297	10.9949107	1.6562218
## 24	5.6052780	1.8428984	0.4537546	4.1994368	0.4537546	6.9159523	1.6992407
## 25	1.3852101	2.8331127	5.5578604	8.9799959	7.5496800	0.9762170	5.5478539
## 26	2.3950628	2.2410775	7.7891182	5.8901572	3.4039357	3.5088850	3.4262648
## 27	5.4956184	3.7219304	1.0538064	7.2849379	7.7150045	4.9767211	4.1330620
## 28	6.7651634	3.0808452	3.7917828	3.8343269	8.3282912	6.2166081	4.8044150
## 29	0.6805044	10.5679861	5.6816348	7.0420861	7.3364914	1.4895943	3.1535784
## 30	4.6523660	5.9951317	1.5147535	8.2886036	7.2880752	7.8630675	6.5222834
## 31	1.5785523	10.0556352	5.6052513	4.7877041	8.8894197	5.8828998	2.3142035
## 32	1.7891450	2.4754481	3.4362418	7.4014786	6.3146331	3.3886993	1.3310172
## 33	5.7678984	3.8889965	2.6584400	7.6186549	7.5078985	6.5461969	5.8234641
## 34	2.8338211	3.0009555	1.4601135	6.4252360	8.0014302	6.9996641	5.7967120
## 35	1.0688084	0.4498519	1.8324040	1.9735011	7.7509843	0.0000000	2.1622100
## 36	5.9778638	2.1447317	0.5137939	7.9280203	3.5476966	5.2721352	4.6771417
## 37	2.4072984	10.0885464	7.2158135	4.2210728	10.0851200	5.8854401	3.9536564
## 38	1.9309644	2.8457510	5.6981323	1.8204036	7.3564775	4.2903064	0.5911049
## 39	1.2117598	1.2117598	2.4295624	3.4712785	9.1109228	2.4295624	2.0238586
## 40	6.9800344	1.9598443	1.1918784	4.5334388	7.4752697	6.0059097	3.1657030
## 41	6.6987922	1.3995539	3.0370659	4.3686915	0.7270927	10.2854330	0.4818156
## 42	7.6184457	1.0865120	1.0865120	3.8185234	7.8678180	5.2509275	3.4356819
## 43	7.5902689	0.9196833	0.0000000	4.4854204	8.7612268	10.4318049	0.5318680

## 44	1.6725159	2.7280076	1.5236121	5.0795957	7.4047218	3.6511550	3.9355635
## 45	2.6709536	6.8108775	6.4811665	8.2983449	5.1948396	3.8255007	3.9940456
## 46	1.4975868	3.9283229	3.7044404	9.1538431	6.8475047	8.7722080	3.3778872
## 47	2.1128002	2.9914629	3.4159614	3.1472578	7.5485538	2.2102642	5.8345873
## 48	5.3730217	1.7272670	3.1374216	5.3830407	7.9608152	6.1121496	4.1137505
## 49	1.7127718	2.9162855	5.7152784	7.4129432	8.6527754	0.8907969	8.6962665
## 50	3.1782685	1.1942762	4.9817750	7.6899393	3.7267549	3.6912215	5.7025634
## 51	7.4895044	1.6861643	3.9611973	7.1400700	0.7081431	6.0640680	6.0440487
## 52	1.2193389	4.3687614	4.1487308	1.6440408	5.8806145	3.9146411	5.5070525
## 53	1.7211539	0.4093638	6.2630306	9.0034423	6.8844172	4.6970231	9.7991780
## 54	1.0456526	5.9792091	4.2549795	4.3584103	9.2967738	4.6510058	5.7109689
## 55	3.0796000	3.5887566	3.7251085	6.6902215	3.0796000	3.5887566	8.8906911
## 56	5.8968579	1.3935809	1.1508846	1.6013162	6.0195485	7.3225808	0.0000000
## 57	7.6204237	1.8190550	0.7844202	8.6740118	7.3850712	5.6985269	7.0490992
## 58	5.6441735	1.5469562	1.8329710	8.1923086	6.2349094	6.7375502	4.7565056
## 59	4.9283608	1.7467427	4.3737456	9.4102533	8.9284177	4.2226423	3.9097635
## 60	1.2317396	3.5258809	5.3921525	8.0113905	8.0559353	1.6588284	2.0615688
## 61	7.4189371	1.1488690	9.3412855	2.7618171	10.2919557	4.1975195	4.3630659
## 62	1.9880848	3.2637406	10.4240562	2.0921736	9.3222024	3.3502285	3.9734368
## 63	0.6244285	5.2100966	6.9535400	3.3515153	9.5224089	3.7502635	2.7861781
## 64	2.4727737	3.7454632	4.8018209	9.3986924	5.6858224	5.4191107	7.1187439
## 65	6.4436431	2.5041627	1.4056657	3.9858920	3.8273109	3.3710570	1.2741125
## 66	1.9033083	1.5452271	6.4708833	7.4125538	7.9962402	2.6339659	2.6827980
## 67	4.7558116	2.1162317	0.0000000	8.2536244	5.9782277	7.4188089	6.6413423
## 68	3.1838517	7.8873851	4.5288651	4.5092905	9.8251063	4.2031150	5.0263752
## 69	4.6699622	2.0601512	4.2904834	5.7301862	4.0552824	8.2185632	6.9561763
## 70	1.9093507	1.0240359	2.9801899	1.0240359	5.4616661	1.7705331	4.6757708
## 71	1.3470420	0.2875905	6.5005742	7.1624769	1.6805944	1.3470420	4.9143397
## 72	1.7158055	1.0992279	0.8168864	5.6364303	6.8098736	5.8419605	4.2734935
## 73	6.6497261	1.0215508	1.0215508	4.3260627	4.6993684	3.7119354	4.0333966
## 74	0.3683772	10.5491900	2.1668440	10.7078866	2.8873498	0.9050428	0.9250880
## 75	6.0803741	6.6582115	2.3581149	9.0495461	5.0471675	8.0930927	6.8527991

## 76	2.4669403	1.3274574	1.5295711	3.3301998	6.9279687	4.5862243	0.5047729
## 77	3.4832741	1.6025044	0.0000000	5.0698139	2.0197019	7.7776288	4.4811698
## 78	7.1107756	2.8123134	3.5496076	8.6399737	2.8123134	8.7794577	3.9605395
## 79	1.6144272	0.0000000	0.5997939	5.5348336	2.4954905	6.5670343	4.5731382
## 80	8.2423062	2.3397645	3.3127668	6.9878518	1.1496496	6.2736725	0.0000000
## 81	4.3239465	3.5525984	1.3008266	5.7202018	5.3405551	7.1095632	6.6994267
## 82	8.3432030	2.1992169	0.9245560	5.6422626	3.4434475	7.5356891	5.3314043
## 83	5.1284295	1.5151069	6.0567873	8.0447990	9.2380870	3.0760460	4.5342795
## 84	1.7441180	5.3830510	6.0216729	9.1553004	9.2380992	2.0472592	6.8438846
## 85	6.2835848	2.2004102	1.2528395	0.0000000	4.3866040	10.6035430	0.5695883
## 86	0.7556567	5.6859934	8.3196482	1.9082749	10.9408001	0.2980717	0.5448810
## 87	2.3119681	6.4251001	3.7254576	5.6316573	9.1364729	0.0000000	3.0764907
## 88	0.9953036	0.0000000	5.6346978	2.3144645	9.7168820	2.6925388	3.2546696
## 89	1.8010345	2.3621051	1.8010345	2.6743703	8.3545923	5.2581759	6.4532855
## 90	0.0000000	0.3257318	7.8390652	0.8154935	4.1676550	0.3257318	1.1804662
## 91	0.7799741	3.2638157	1.9517370	7.4022498	4.4459915	0.7799741	0.7799741
## 92	1.6291468	2.4556494	3.9956835	4.8927844	7.9525112	1.1350094	4.4106871
## 93	0.4209405	1.8916914	1.6007455	7.0823545	9.6098201	0.7464848	2.2096405
## 94	2.8108955	1.1017173	1.4431823	6.4982237	3.5362643	5.7005202	6.3827883
## 95	2.9309644	1.0734090	0.6343145	10.2473676	3.9917712	0.6343145	1.4333334
## 96	3.9993506	4.6329719	5.9813093	11.0005950	4.6329719	3.2293264	2.3128684
## 97	1.3191555	1.1350094	2.9778294	6.1852779	4.8634429	3.4018216	2.4068632
## 98	2.2633349	4.5090117	2.7067957	4.0182692	7.8971660	2.2633349	6.6065577
## 99	3.9355069	1.6890755	1.9486382	2.8788823	7.8342726	1.5393822	2.9822909
## 100	0.0000000	11.0191169	6.2134542	4.2979104	0.9873936	3.5004834	1.1935825
## 101	1.8483175	4.2238318	0.3335382	7.4681988	10.1536805	1.7401504	3.0698053
## 102	0.8479969	4.5484366	7.7535511	7.3871557	9.0095487	0.0000000	0.5733745
## 103	0.0000000	1.6219464	3.4763687	7.5081038	7.2470645	0.0000000	3.5739925
## 104	0.0000000	0.8265993	5.6582715	9.5216456	8.5873691	3.6106174	8.7813925
## 105	3.2050014	12.8859578	5.2929952	0.5691022	9.3787981	0.0000000	1.3463613
## 106	3.3310172	4.8642951	4.9972879	2.6583029	6.3565629	5.2551381	5.8350550
## 107	1.2911910	6.2459424	5.4252713	3.9174986	0.7854250	1.0603241	8.7512090

##	108	2.2546545	2.2546545	7.9622361	1.8525982	6.0506845	0.6601985	0.8808814
##	109	3.5474005	1.6903724	0.9191494	4.6975014	5.0860109	6.1485478	3.3159574
##	110	1.2207633	6.3250805	7.8236787	6.0488225	7.2163055	2.6605408	5.4827160
##	111	3.0525898	0.0000000	6.8950638	10.2686014	8.6881971	4.3471554	2.7559771
##	112	3.0145517	6.0348144	4.4480287	4.0366704	2.3688801	3.6625473	2.4807563
##	113	4.0249845	2.5422828	3.6157106	2.6385836	6.5833596	5.7243692	3.2727847
##	114	3.7347421	6.5316014	2.5005216	1.4135399	6.7390866	1.5833747	1.8502794
##	115	4.6451483	2.6791986	1.1382247	8.6123672	6.7292537	7.7017791	2.3978030
##	116	2.0921059	2.0921059	3.9714700	2.3903375	6.8319317	0.0000000	3.2781335
##	117	3.1024398	10.2173200	8.3684986	2.6184266	9.2551152	1.1531568	2.3868385
##	118	3.5383395	1.8066953	0.0000000	10.2625153	7.4585354	4.7338424	1.5229597
##	119	0.7529198	1.2451305	2.5351323	9.4920517	4.0370835	4.6228601	8.0716769
##	120	0.8467942	1.3768460	1.6458861	9.4340250	4.7594009	2.8852034	7.7695767
##	121	4.2227273	2.4675403	0.9306995	3.2643863	8.4985325	3.8672145	3.0395771
##	122	1.6275135	7.7932704	3.9979246	10.3686280	8.6766994	2.9938736	7.5989123
##	123	1.2795902	5.3440509	2.9600483	8.6297580	7.8351529	1.2795902	7.5713431
##	124	3.3040145	0.6890307	5.8019424	12.1152283	8.0204083	3.9719941	5.0099428
##	125	1.6792436	2.1388472	6.0849210	10.4206378	5.7296207	4.4999097	0.3922075
##	126	0.0000000	0.5077185	9.6406356	3.4197546	10.9019793	0.8825257	2.9539915
##	127	0.0000000	0.7750927	7.7248208	3.2533237	6.2145911	1.2765562	4.4583426
##	128	4.1217449	1.7237770	7.8446072	0.3650206	8.3752754	2.0588706	1.4057201
##	129	2.4886692	0.5051796	0.0000000	1.4207788	8.0208539	0.5051796	3.4677881
##	130	5.8713287	3.8738526	0.0000000	8.6425355	6.1234117	2.5771025	1.9579889
##	131	0.0000000	0.0000000	0.0000000	9.5571186	0.0000000	3.1459220	8.1712043
##	132	5.5044615	4.4523187	1.4547023	8.7072383	8.1337212	6.3179444	5.8148990
##	133	2.6997071	4.7711197	1.1229377	4.3390162	7.4538690	5.2141598	5.4425853
##	134	3.8005686	1.4878979	5.1776507	8.9536471	8.9404584	4.0303979	5.7701683
##	135	3.4710183	1.1524430	0.6883147	8.2404904	8.1564204	6.5998400	1.4651386
##	136	2.7132339	2.7132339	3.6972067	3.2556065	4.9103633	4.8687460	3.1580946
##	137	2.7975111	3.1215294	7.6580715	9.1124942	3.7284539	2.7229468	8.5044214
##	138	9.5338791	0.8982471	0.3650206	8.9937366	7.1121288	3.2249818	0.0000000
##	139	5.3175392	4.3742257	3.5928038	6.9910184	7.0829942	2.2892148	1.4932887

##	140	0.5056877	2.2564974	3.8927699	10.0357594	0.0000000	1.1759397	0.0000000
##	141	6.5483226	2.2088918	1.3842156	3.1125333	6.1342867	6.7123853	0.0000000
##	142	4.6868423	1.0328061	4.1200118	7.5959683	7.6620338	6.7272684	1.8442651
##	143	8.6408259	1.9579889	2.5080483	4.5898713	1.0579701	5.9446172	1.7118032
##	144	0.5366498	0.9268344	0.0000000	5.8409415	6.4587183	2.9557406	0.0000000
##	145	4.6887958	1.5935450	0.6567252	4.4622814	0.6567252	3.1813411	1.0105650
##	146	1.5268200	1.5268200	6.4826708	1.7449361	7.5122395	2.7321389	1.9038867
##	147	1.3058538	1.6818990	6.4451357	5.1388186	4.7423350	1.3058538	3.5140212
##	148	8.4352039	3.8283574	1.1378314	8.0504233	3.3224474	0.0000000	0.0000000
##	149	0.0000000	1.5165195	2.4505910	3.1401406	0.4564908	0.0000000	7.3451542
##	150	8.0216291	3.4158938	0.0000000	2.8969693	8.0718871	2.8969693	1.4692608
##	151	3.3743162	3.4431027	5.0514156	9.8056228	4.7593370	4.6760360	5.9976627
##	152	7.4020766	0.8720801	2.1114654	8.5636981	8.6088880	0.0000000	2.6538167
##	153	2.7572153	8.1044410	11.0421581	9.3797994	6.1786230	3.9980510	4.8617023
##	154	8.0949132	2.6831574	4.4628769	8.1396572	7.0628060	6.4290719	3.2696765
##	155	6.1092874	2.2660369	4.0922582	2.7474089	9.2940507	1.6677559	4.2733070
##	156	4.3524125	2.8027309	4.0393227	5.1646737	6.1745842	2.9952674	0.5831339
##		rs_SOX2	rs_AR	rs_IYD	rs_PLCH1	rs_SLC27A6	rs_HPX	rs_PP14571
##	1	6.0562735	9.782902	0.8928184	3.1228880	6.4728565	11.558061	6.2795493
##	2	0.7843365	9.716652	0.0000000	6.6274959	5.7858879	11.166573	1.0590091
##	3	0.0000000	8.866230	3.2347159	5.0041778	6.4423215	6.914276	3.6252354
##	4	2.6426092	7.883860	0.4889263	2.0797706	6.7856722	6.676108	8.6611817
##	5	0.0000000	8.798103	4.5596876	8.0097463	4.0049957	7.363076	7.6991532
##	6	0.6028369	1.026658	4.0941347	9.8027041	1.6204457	4.605269	0.6028369
##	7	0.0000000	4.342178	2.1605653	9.7085865	4.8655576	6.207278	3.3030501
##	8	1.6259250	1.779932	1.2575538	9.0276506	8.8487916	2.162661	1.0308304
##	9	2.3663642	0.000000	2.6312207	8.0967821	1.3553546	3.219215	0.0000000
##	10	0.0000000	7.403118	0.4930324	0.8598106	4.5235870	6.684450	6.9113632
##	11	0.7390704	5.895981	6.6150396	8.4018885	3.1201694	6.005218	6.9710411
##	12	4.3415233	9.961874	0.8001648	7.3352948	3.8791078	5.006038	0.8001648
##	13	1.9142201	1.914220	0.9433588	7.6891363	3.7507244	2.708894	1.5089864
##	14	0.7400209	7.539055	2.3280897	7.7011650	5.8572470	7.705804	8.3957093

## 15	3.2593177	7.172710	0.0000000	2.3016754	1.6525094	8.022613	3.3121714
## 16	0.0000000	8.731620	0.9432837	4.0609034	1.9141052	5.852011	6.1338121
## 17	6.5580747	9.001987	0.0000000	5.3326256	8.0645940	12.495145	0.0000000
## 18	0.8186052	9.647583	5.8457434	2.5762077	6.9038529	6.497406	7.0229991
## 19	0.0000000	9.501946	3.6393595	8.4019154	6.8602676	4.491186	6.1362652
## 20	9.9339147	8.333593	5.6230123	6.3883704	3.0827537	8.261113	6.2590012
## 21	0.0000000	9.790631	4.1331772	8.3302698	3.5725259	11.391296	6.9458933
## 22	1.9571717	0.000000	2.2347466	9.0705388	2.3557493	1.404576	0.0000000
## 23	0.0000000	9.635445	4.3437986	6.2543370	1.5278210	5.880597	6.8913742
## 24	0.4537546	3.356200	1.3094673	9.4187438	6.1913139	2.710239	0.4537546
## 25	0.0000000	10.150892	6.0681764	8.6571698	2.5450788	6.149058	8.3530202
## 26	7.1589600	6.473487	6.7659338	8.4525135	5.3739822	4.129885	8.2313551
## 27	0.7802261	9.647982	1.2837440	6.4853302	6.4910947	6.966976	2.8984406
## 28	7.9447917	7.323469	4.5216099	8.7412748	1.9640659	6.709110	9.0014155
## 29	0.0000000	10.060431	6.9883132	2.0048968	2.6835617	5.930030	7.0939267
## 30	1.0803166	9.604666	0.4557546	6.2058441	8.4627710	8.997397	7.6367145
## 31	6.3930455	9.536094	6.9282388	8.4473428	2.8791764	5.430192	6.6825312
## 32	7.3434389	9.035788	5.2012222	6.2159368	3.3395365	4.508074	0.4339209
## 33	0.7727302	9.898210	5.5342422	5.1440708	6.5185934	7.202597	4.3055620
## 34	2.5400521	9.453451	1.8587767	4.2442021	5.4706995	5.619445	6.1056655
## 35	0.0000000	12.135033	9.7769699	9.1276353	0.4498519	9.669579	7.4556026
## 36	1.8345494	8.184987	1.9979427	9.5292138	6.8799385	4.990900	1.1911204
## 37	0.0000000	9.147404	5.3587620	8.9877540	6.1876450	6.310104	7.5299302
## 38	1.7006617	7.864681	4.3709733	8.8100700	1.0875986	5.935462	2.6001746
## 39	2.6472454	8.647886	6.8789864	9.2295420	0.5247658	5.974082	1.8609231
## 40	2.1802752	5.395909	0.7157177	8.1671587	4.8225313	3.011657	1.1918784
## 41	0.0000000	6.171917	4.1195554	9.8649630	4.2494909	3.093543	1.3995539
## 42	0.0000000	7.656437	6.5699877	8.7248648	1.5224073	7.124934	7.9200652
## 43	0.5318680	3.243486	0.9196833	9.3495241	5.7443791	4.301946	4.1289367
## 44	3.8518490	9.385571	1.3576083	3.3310172	4.9249217	5.432652	4.9249217
## 45	2.1428382	8.898843	7.1796374	8.4266598	6.7335889	6.720295	7.3873505
## 46	0.0000000	8.177429	3.3899797	8.0600939	7.0908005	8.551568	8.1199537

## 47	0.3810618	10.806228	1.3285493	2.6873743	1.7733212	8.089917	4.1396659
## 48	4.7548020	9.377460	6.6861013	9.4194508	7.5801915	6.917451	4.3266452
## 49	1.0969365	9.882723	0.6503050	0.3614315	0.8907969	9.145181	0.6503050
## 50	0.4028313	9.468223	2.3749282	3.1259982	4.2010614	8.085091	6.3027778
## 51	0.7081431	4.178739	2.0595629	9.8328318	7.6931865	2.875210	3.7049383
## 52	0.6147570	9.631134	4.3871971	8.0002694	5.2248661	7.424829	8.5510164
## 53	6.2995506	11.052157	8.3711520	10.2875883	4.1749816	5.511806	5.5826674
## 54	0.7735744	9.199144	4.5671256	8.5117175	4.1143087	9.859645	7.5488435
## 55	0.0000000	10.646798	5.9707938	5.9360867	4.3062258	10.418193	3.4773017
## 56	0.0000000	2.341502	0.4924172	9.7955748	9.8372353	1.944034	2.7432349
## 57	0.4448791	10.038109	2.5098985	8.1304063	7.1299753	5.718458	7.4189624
## 58	2.1775033	10.437837	3.1190241	8.0443586	7.8457296	5.518743	3.7194792
## 59	0.6681191	2.180784	0.3723950	8.1779571	9.5500035	3.012193	3.2540498
## 60	0.3444877	6.787908	7.8638555	9.8604593	2.7935838	5.793909	7.7884221
## 61	3.2043442	6.239635	0.0000000	4.1238814	6.7112402	8.223776	8.1820546
## 62	3.9016489	11.123924	4.0640033	9.1162525	4.7920380	7.620815	7.2538078
## 63	0.6244285	9.354720	4.7401774	1.9923334	3.6291934	5.379209	1.2351143
## 64	0.4994760	10.301573	6.8111499	3.5554603	4.4387453	8.926966	4.1333498
## 65	0.3503841	5.848708	3.3710570	9.8398352	2.5724289	3.026322	4.1734073
## 66	0.0000000	9.311666	5.0352588	2.5005726	3.9565678	7.131608	6.4529413
## 67	0.7373406	8.100745	1.5855875	6.5958990	9.1051223	6.710611	3.6638455
## 68	0.0000000	10.749909	4.8577123	7.1232720	6.0309452	5.938850	5.8247220
## 69	0.9303967	9.618153	0.0000000	5.3524443	7.3216341	5.941623	2.8306813
## 70	0.7562547	9.421973	4.0447875	7.4765137	2.2600257	5.896579	6.4845925
## 71	5.7531071	10.634906	3.1242454	6.8319355	3.1602748	5.680513	7.2019132
## 72	1.5380415	9.198306	4.3786503	9.0620758	3.3950902	12.424679	4.6211786
## 73	0.3305584	5.509480	0.3305584	6.7077484	7.6918740	1.347779	1.9384364
## 74	0.3683772	11.874793	5.2233569	0.9050428	1.1133671	5.681449	5.5443030
## 75	2.8775872	8.296151	3.5205731	7.1066980	8.9558115	9.983152	5.0191948
## 76	9.8810768	8.845212	0.0000000	2.2551683	4.2566257	6.882548	2.8905829
## 77	4.5486401	9.721402	0.0000000	3.4832741	3.3455383	2.342924	0.0000000
## 78	0.0000000	3.912286	0.7392433	9.8833159	3.5077693	4.035175	2.2269400

## 79	4.2510525	8.826843	0.0000000	1.3484591	2.7377084	2.204203	1.0221192
## 80	2.0873610	3.370569	1.7812758	9.4371081	8.3504013	3.807242	1.1496496
## 81	0.9824369	9.430269	1.5614972	5.4248986	7.0256158	7.164568	1.9735745
## 82	0.9245560	8.380615	1.2308793	7.2552524	7.6658021	4.344012	1.6983074
## 83	0.3397075	11.314315	4.7976252	6.0335904	5.2641723	8.309097	7.2101024
## 84	2.8612209	10.422633	6.3002482	4.3815118	2.7536259	6.072931	5.6613050
## 85	0.0000000	6.457140	3.2170446	9.2698768	8.1369803	2.511620	2.0153905
## 86	0.0000000	8.517806	2.4221792	1.1025238	5.4863089	9.404474	8.5596425
## 87	0.0000000	9.233916	2.7966808	5.5627217	2.1059127	5.345407	7.8661656
## 88	0.0000000	7.826744	5.3307341	3.6352552	0.0000000	2.162661	6.4501918
## 89	4.8243605	7.991195	4.6449522	8.6930659	0.0000000	6.702052	3.8330824
## 90	2.2629142	10.375957	7.4762431	9.3966938	0.5912964	9.416616	2.4077062
## 91	4.8017484	10.455708	5.5513499	8.1419176	5.7373758	8.435816	9.0317963
## 92	7.8792757	11.015887	8.4646385	8.8807917	0.9237957	6.963518	10.0922418
## 93	4.9925147	10.080703	5.9928885	6.1865402	4.3443953	4.647176	7.0678527
## 94	5.2355816	11.529997	5.8513368	7.8142223	3.4252042	4.597484	5.3914309
## 95	4.8384073	11.928941	6.6255116	8.8614297	2.9309644	7.727473	3.9665135
## 96	2.1787784	10.875805	7.5061759	2.9287493	5.4949468	9.631933	8.8648634
## 97	0.6763577	5.712469	2.5322421	9.6947952	5.4516463	4.149454	1.4824869
## 98	5.8235532	10.706204	0.7579620	5.8497241	4.4869460	11.447591	8.1106002
## 99	3.0546922	9.335636	7.8282330	8.9536034	3.4814540	7.229229	5.6328963
## 100	0.5765705	10.814716	0.5765705	3.4364550	1.5681294	4.402163	0.0000000
## 101	7.7880723	9.104716	9.9083146	10.1993931	2.5062465	10.819574	7.9225101
## 102	0.0000000	7.893605	4.5728897	3.5109619	5.8227301	5.008989	7.7588894
## 103	0.3330802	10.303914	1.0278618	0.3330802	3.5739925	8.040770	7.7361164
## 104	6.3613174	9.829449	7.5853164	7.7653464	2.9211507	9.863987	7.5997701
## 105	0.3124328	10.024451	1.4290535	1.2933116	0.0000000	3.710437	6.0187566
## 106	1.3576083	9.343160	4.8329963	5.8234768	6.8850459	6.542176	6.0238652
## 107	0.0000000	10.775232	3.3284487	6.8268548	0.7854250	5.965976	5.8975744
## 108	1.1114988	9.262401	5.1973543	5.5318992	3.0451459	5.115191	9.0505858
## 109	0.0000000	7.773743	4.8163181	5.3608418	4.7220616	4.164175	2.0420840
## 110	2.2201132	8.380830	7.2732604	8.3634484	5.0704537	8.224342	9.0960322

##	111	3.0525898	6.059022	5.0872464	9.1901254	2.9963345	7.791130	6.1129232
##	112	0.8742855	9.347909	0.0000000	4.3334738	6.7103601	6.938153	8.0042396
##	113	4.6739804	7.831493	4.4796703	7.6382969	1.1416290	7.442107	7.0006840
##	114	0.9987732	8.695729	4.9518722	7.6510517	1.5833747	5.990102	5.9595685
##	115	0.0000000	8.846833	5.6680766	9.5574670	1.4863025	4.379794	0.6786128
##	116	6.0854671	9.744917	2.9733909	6.7113008	3.5165069	5.179829	1.8523984
##	117	1.1531568	11.214784	0.7944367	7.9355705	3.2208097	7.739642	10.3878025
##	118	2.8572047	8.444116	7.0530309	8.7959513	2.7271581	5.312004	7.6812194
##	119	1.7647283	10.539342	3.4954010	3.4954010	4.5403001	9.615011	3.5385754
##	120	0.8467942	10.990674	4.6101626	7.6016913	1.0459322	8.898383	6.9414092
##	121	7.9512171	8.487647	8.3994108	9.3338564	7.4247550	6.260558	8.1757940
##	122	2.1644645	9.901986	6.5275599	7.2160697	2.5548835	8.479640	6.2324382
##	123	5.6305540	9.809327	4.5537230	6.0278087	2.8923133	10.181139	4.6180448
##	124	0.6890307	11.770078	7.7884221	9.9355592	0.0000000	7.669823	6.5693999
##	125	1.0008654	9.901087	5.4479494	4.3235718	4.7021034	7.213123	7.9594079
##	126	0.5077185	8.340315	7.6596549	8.3290056	1.8199951	6.936408	9.1644406
##	127	6.1653975	8.253049	7.0076272	7.8277790	1.6479591	7.462180	5.9247959
##	128	0.0000000	10.458379	9.2952547	8.1985295	1.8443455	6.999460	7.4667136
##	129	4.9435697	10.694305	6.4283468	9.8084678	2.8659188	8.618659	8.2104722
##	130	0.0000000	11.597396	7.2008927	10.4488057	0.0000000	6.505053	8.4390508
##	131	1.8066128	8.878555	0.0000000	1.4773665	0.0000000	12.634899	0.7771988
##	132	4.0590783	10.512555	3.9816974	4.5890444	5.8905172	8.916631	5.2804479
##	133	6.7255939	8.540777	5.4000255	6.3484945	3.0806236	5.987012	7.6833764
##	134	8.2083865	10.461412	6.9368970	5.9273892	3.7368971	9.304632	8.2993555
##	135	1.3383388	10.604645	3.0056695	1.7847971	3.9419232	9.995154	4.8180734
##	136	1.4383461	9.285208	4.4560899	3.1202856	3.1895241	7.397401	4.7128434
##	137	3.4334803	8.651986	2.8683905	4.0666317	6.2664193	6.450957	5.5612803
##	138	0.3650206	1.592397	0.0000000	10.1643529	4.4794375	5.617216	0.8982471
##	139	9.2846025	9.221677	3.9957830	4.8183904	4.0225720	9.444860	5.1207832
##	140	2.5940230	10.324019	9.4161637	5.5341893	3.2951499	6.258647	8.1323558
##	141	9.1635586	4.507103	2.7303356	9.1203820	3.8765268	1.591153	0.4881036
##	142	3.2277873	8.984655	6.5236404	4.8527080	3.6842689	8.921737	1.9219694

##	143	0.0000000	7.476386	5.4685279	8.9110609	1.9579889	2.680279	1.0579701
##	144	2.3377111	10.075105	4.3486361	4.5836454	1.7016821	5.607582	2.9557406
##	145	1.4486896	1.957060	1.2876496	8.0517054	6.4650782	1.448690	1.4486896
##	146	0.5562087	8.949578	1.5268200	6.8492387	3.4433016	4.126213	3.9175272
##	147	1.6818990	9.260046	2.5323419	2.8594727	1.3058538	8.615726	5.7550077
##	148	0.0000000	2.536525	2.0004327	9.8641434	9.3225044	3.406509	2.5365254
##	149	0.0000000	11.269951	5.6368508	5.2702262	1.3154503	10.371267	2.3488556
##	150	0.0000000	5.938777	1.2521128	8.3019607	4.6674778	3.215849	1.7238206
##	151	2.6004363	10.240129	4.2270171	5.5573182	7.7119553	10.101355	3.4431027
##	152	6.8000314	3.793896	6.8266591	7.1128919	3.5083019	11.091056	10.9361342
##	153	0.0000000	10.439031	6.5886727	9.2474935	4.4675012	6.677962	9.9332013
##	154	6.1006329	5.719036	0.9685700	9.7810119	7.9498384	4.728916	1.9526318
##	155	1.8958842	8.832978	0.8610819	1.0625362	3.4325987	6.255206	5.0960003
##	156	0.0000000	9.001638	4.6672393	1.5813512	0.0000000	4.667239	0.5831339
##		rs_DLX2	rs_SPAG17	rs_PRG4	rs_MMP7	rs_UGT8	rs_NEURL	rs_AFF3
##	1	9.2979895	6.8067945	7.3777519	8.0352181	3.1921468	9.9142477	10.700865
##	2	1.4884122	0.4448791	5.8501618	9.1322367	6.5008944	5.7082893	12.023256
##	3	2.3287790	3.6252354	7.6794928	9.0031443	4.1260560	7.4761078	12.488857
##	4	6.7590519	6.9963526	4.4959062	8.0156448	2.2112926	10.1653498	13.848029
##	5	0.4815056	4.3791912	4.2702598	8.8498126	3.0921567	6.5067892	11.614757
##	6	0.0000000	3.3696200	5.7578767	12.7131057	7.9685591	2.0398403	5.651738
##	7	0.0000000	1.7285301	4.3272850	15.1394537	3.5605071	3.0578661	7.331332
##	8	3.9957197	1.6259250	5.0115806	10.0015218	11.7470689	8.8874412	7.144506
##	9	5.1411957	4.4790688	1.6318028	10.8762756	9.8317001	5.0536327	4.936129
##	10	7.6366514	0.0000000	9.7626063	8.0320215	2.0906163	8.8447033	12.334662
##	11	1.7406686	0.4164074	5.8569558	7.7844477	3.0635547	5.9516321	11.907296
##	12	2.6297063	6.7465157	7.2821766	10.7832477	4.6491498	8.3830091	10.594183
##	13	2.8073137	0.9433588	5.9791977	15.2818105	8.5177654	0.9433588	3.700384
##	14	1.5900990	2.3280897	4.5627919	10.5898519	4.3996633	6.4725138	10.913850
##	15	1.8078083	1.9480027	5.8300829	5.3953987	2.9613826	8.1677016	10.633120
##	16	8.1183208	6.8277949	1.2591821	7.0247064	0.9432837	5.7443576	9.731489
##	17	1.1726155	6.2447501	3.8948566	7.6795744	2.6858953	8.1876084	11.759007

## 18	4.9077896	5.6512067	8.7010156	6.5918036	1.3375969	7.7521177	13.356323
## 19	9.1836465	8.5293298	7.4405378	9.9946052	4.3360905	3.0789001	8.778407
## 20	0.6551686	3.5402381	3.1384377	8.0316025	0.8970080	9.0462018	10.970850
## 21	4.3768460	5.9899746	3.0920383	8.6105443	2.4434740	3.7561053	9.498709
## 22	4.6610541	1.7954345	1.9678695	13.2791561	9.0176386	2.6677105	6.367172
## 23	0.0000000	1.5278210	2.1171631	7.3896210	1.5278210	11.5242088	11.803864
## 24	3.0690663	0.4537546	5.2707121	13.7837537	8.7083876	3.0040879	7.540541
## 25	1.1951586	7.7617141	5.9465110	5.0266938	2.2836551	4.9231777	11.840879
## 26	0.8469546	6.0319201	5.8438934	6.1284171	1.6461627	10.2155262	13.348695
## 27	8.4167811	1.0538064	6.3842001	12.1588419	5.4489967	6.1987574	10.769524
## 28	1.1657512	1.1657512	4.6757934	10.0329165	3.6560616	6.0729890	10.970683
## 29	3.3277879	4.6150572	7.5414955	5.7151274	1.1410403	8.2657627	14.023267
## 30	2.2372884	4.4217484	8.8882254	9.9944096	5.5566348	3.4140137	11.609636
## 31	1.5785523	5.6516028	5.4235277	8.0116393	2.8791764	9.5291287	12.845798
## 32	1.2651368	0.7670615	7.8626212	9.4854057	3.8761928	5.6270552	11.797782
## 33	4.5864765	3.8540854	8.5719562	10.4857013	4.4759928	5.4314124	12.183441
## 34	8.3008595	0.9074291	7.2514805	8.9264493	3.8651963	8.7410715	11.445806
## 35	4.7731893	1.3007680	9.9134374	6.8197308	2.7770304	5.3008303	9.855424
## 36	2.1447317	2.2779550	3.7299008	12.9640350	7.3535835	7.7329617	8.320496
## 37	3.1290522	6.5805239	5.1886937	8.4953734	5.2649717	8.0184044	12.649099
## 38	0.0000000	4.8783428	7.8733260	8.2531147	1.8204036	6.5946247	6.656278
## 39	0.5247658	5.1202690	8.4912959	5.0834049	7.7866107	4.6259309	9.932462
## 40	3.1221923	3.7913140	8.0181278	12.1614347	8.5325503	5.8619851	7.353076
## 41	0.0000000	1.2082675	2.3211488	9.1683367	9.0802601	9.2144214	5.020333
## 42	0.0000000	1.0865120	9.1500417	10.9092350	2.4579619	5.4370513	4.064409
## 43	0.0000000	4.6481720	1.8847151	7.9925311	5.9246083	9.2098737	3.932307
## 44	3.9716447	2.7945198	5.5467155	9.0994604	8.3748804	10.0316415	12.371226
## 45	6.5727730	5.7858853	8.0270965	9.8121757	2.5559143	8.9651491	11.897488
## 46	0.4485838	6.6780029	3.5345721	7.5214434	5.0644087	8.0502018	11.628173
## 47	5.9835249	4.3251489	8.2459120	7.0498420	4.1641990	2.2102642	10.525318
## 48	4.1501128	3.7150807	5.4229326	10.6354083	5.5435485	6.2334260	8.650884
## 49	4.6877438	1.7127718	9.2063121	7.5703574	0.3614315	6.1036592	11.861956

## 50	1.7024802	5.3667034	8.1021358	8.8604833	3.6547907	6.1863698	11.222552
## 51	3.9315507	0.7081431	6.2520125	14.4340644	6.9274509	4.0187321	4.345418
## 52	0.3399355	8.2076655	6.0555015	7.3516221	1.0445340	7.0671988	12.547150
## 53	0.4093638	2.6439024	5.8409239	8.0470950	3.5641952	5.2755956	12.176093
## 54	0.0000000	4.5671256	1.8063653	7.5461073	2.7390488	8.8501487	11.252680
## 55	6.5640672	7.7900806	6.3565347	8.4664362	2.4521473	9.9102534	11.294810
## 56	2.7432349	0.4924172	0.0000000	7.3078392	10.3425151	7.1597240	7.695335
## 57	6.7146508	2.3142035	7.1781609	9.5087539	6.7872196	5.6578200	10.856446
## 58	6.4081565	7.8794846	4.7058729	9.4438621	7.8557400	6.2592461	11.198447
## 59	1.7467427	3.2979104	7.5271908	11.2819858	8.3203344	1.6142387	7.648678
## 60	1.7770725	6.8158060	10.7981145	8.7974508	1.2317396	7.2960848	8.489601
## 61	8.1880893	9.9947067	8.8230774	9.1287071	3.5797112	7.7231633	13.759013
## 62	4.1143087	1.6215244	7.2378448	7.1789755	1.9880848	7.4672086	13.255502
## 63	1.7812338	0.6244285	4.3075524	8.6952735	2.0873271	10.7310933	13.102910
## 64	2.3610384	6.8582123	9.2187228	9.3064917	3.7002510	5.6858224	11.829647
## 65	1.5480913	1.5480913	4.8767723	14.6446497	7.2575481	1.4056657	4.377991
## 66	5.1510632	4.4299507	6.7774947	5.8649265	4.8961265	10.5299110	13.756955
## 67	0.7373406	5.2361520	5.7462725	12.7918535	6.2863526	3.7378598	11.156834
## 68	6.3443190	4.2031150	9.1279920	9.3307899	4.4072372	6.7590586	12.690075
## 69	4.1503322	4.6570740	7.5321338	11.7296862	5.3840809	6.8068409	10.530440
## 70	0.0000000	6.4956520	1.6218057	5.0462597	3.0418562	5.5597702	10.701739
## 71	0.5271704	6.5858579	7.0152377	10.0720389	2.3759013	6.1070852	10.191410
## 72	0.0000000	0.8168864	6.3133601	8.8769914	2.3754287	5.0767899	10.860279
## 73	2.2033578	0.8258670	10.6631130	8.3702497	6.9403195	6.8530238	7.633197
## 74	8.2148164	3.6593195	3.6034424	6.9613733	3.2818466	9.4959725	12.966541
## 75	6.5741878	5.0881374	7.6975744	11.6947794	6.1529682	5.0471675	11.067701
## 76	3.0304244	1.0923428	3.3921800	6.5168756	4.7367564	11.6225074	11.482630
## 77	0.0000000	8.3253306	11.6097801	6.1957688	2.7226409	3.4832741	9.754945
## 78	2.5072619	1.7410139	0.4200781	11.5044634	9.5082747	7.8131116	8.494945
## 79	0.0000000	6.5110600	14.0341510	4.2114639	2.8451086	2.4954905	7.401231
## 80	0.4918018	4.9379893	3.3807433	12.8196996	8.8582459	1.1496496	4.859413
## 81	0.9824369	5.2323691	11.3163783	6.6016371	4.7732843	2.1425115	10.609883

## 82	1.2308793	5.1159321	10.5474681	11.0139550	7.4456547	2.7734478	9.909121
## 83	2.0654344	2.0654344	6.4738567	7.3124347	3.7805411	2.9329305	9.713099
## 84	5.2308755	8.3911396	5.7653836	9.1976145	2.5108860	3.3417581	9.342748
## 85	0.3523066	3.1285409	2.7698140	8.1566934	5.1751813	7.7227058	4.694674
## 86	0.5448810	6.6290753	1.9196833	0.0000000	0.2980717	10.4365132	13.691151
## 87	0.4119685	1.4072440	8.3235750	6.2544996	1.4072440	8.2180129	10.543107
## 88	3.0792245	1.3163196	3.7626996	7.6631240	7.5142659	6.2099465	3.945458
## 89	2.9309076	5.9799842	5.6474037	7.0337996	6.1067650	4.5461289	11.784326
## 90	2.1846929	7.4741894	1.7202785	5.8130449	0.3257318	8.0930409	13.615420
## 91	1.0535979	2.8268840	9.2823258	6.2192266	2.6731720	7.6464118	10.157687
## 92	0.3774014	5.2846067	7.4166911	8.1567910	1.4824869	6.0288851	10.375531
## 93	1.6007455	0.4209405	5.4468914	5.5361928	6.0081597	5.0378610	12.630269
## 94	4.5094742	3.1270389	8.2094811	9.1286112	3.8546939	9.5324368	11.837186
## 95	0.6343145	3.4145685	3.2226809	7.9675779	1.9110779	5.2159892	11.557988
## 96	0.0000000	6.1066142	7.8369599	9.6399285	1.2159270	3.0099741	12.587777
## 97	0.6763577	2.5322421	1.6361258	13.7717933	9.8074127	8.7556224	8.736531
## 98	5.6257381	0.4281424	4.7079002	7.6415959	1.6197886	7.8439154	12.773559
## 99	3.3969267	2.2670863	7.8248194	8.0777055	1.1834548	7.5461698	12.231752
## 100	4.1855415	0.9873936	2.9021701	5.4988285	0.5765705	8.9025409	12.130799
## 101	3.1798932	6.9207220	3.6847739	8.1066540	2.6326405	6.1854999	12.069715
## 102	1.1375035	0.0000000	5.5425057	8.2162608	3.0356239	9.5860892	13.471802
## 103	2.7472370	7.5486971	2.0470148	6.8780313	0.0000000	8.3780273	11.855015
## 104	0.4716557	3.9363270	5.3444273	7.7210794	3.0614306	4.4517848	7.661699
## 105	1.2933116	5.3194445	3.0535632	5.8045338	0.5691022	8.3173154	13.206123
## 106	1.6725159	1.9308130	2.6568853	10.3969181	3.2385117	9.9080360	12.966697
## 107	8.7449203	7.3334550	4.5847761	7.8837369	2.9771883	6.2251592	11.861821
## 108	0.3675947	7.5974805	5.3010169	7.3062659	3.5167842	9.0879908	12.109549
## 109	0.5315686	3.3088414	12.3196574	11.0472314	4.2341487	6.8404431	9.710917
## 110	2.9361008	5.0269549	3.9876483	8.4107541	4.4783765	6.5259279	7.609386
## 111	2.3573831	5.0462771	8.7189804	6.1456163	3.1589025	5.8044099	7.928980
## 112	0.8742855	4.6289252	4.7701736	9.6727116	4.7229414	6.7993749	12.974427
## 113	1.1416290	0.0000000	4.5859060	10.6769336	3.7511209	3.4662747	9.430837

##	114	6.2264488	4.6025578	6.9606669	9.4182631	3.1133504	6.8597385	10.067721
##	115	0.0000000	1.1382247	3.4490727	8.6751819	1.4863025	3.5619493	3.486650
##	116	0.0000000	5.2433606	4.3243714	9.6613269	1.7157177	5.2680076	9.460106
##	117	0.9849174	1.3038100	6.7458504	8.6571140	1.5648171	10.4735107	14.202592
##	118	1.5229597	4.6284937	0.7000845	10.4628790	1.5229597	1.8066953	9.340063
##	119	3.1504947	5.7667065	5.9644056	10.1696295	4.0668814	6.6038963	11.171362
##	120	3.6375291	7.7782441	5.3220904	8.5006125	0.8467942	7.3401412	11.857751
##	121	0.5391340	3.8217102	6.3847406	10.3568658	4.4490859	7.4770588	13.169889
##	122	4.7980142	0.4311415	7.6221302	8.4669142	1.9208268	6.7632190	10.951071
##	123	1.4774701	4.2361864	7.4658651	7.3741431	1.8066953	6.4491420	10.166428
##	124	0.9398284	4.7881584	6.5039561	9.0703300	2.5601035	7.6849239	5.916039
##	125	0.0000000	6.2534277	4.7769304	7.2553317	1.5861162	5.9133945	10.096336
##	126	0.0000000	0.5077185	6.0944240	6.3498818	1.9828385	10.0654798	14.252395
##	127	1.8030617	6.6573227	1.9510282	7.7842180	3.1414818	7.5821691	12.023223
##	128	0.6559929	5.9072272	4.9154635	9.6960973	5.7769541	6.9055880	13.359094
##	129	4.4572397	3.0230069	6.1649813	6.2490717	6.0805234	5.5455700	11.311356
##	130	0.0000000	0.4997821	5.1657512	7.7920445	2.5771025	2.5771025	10.137140
##	131	1.6513617	4.6994517	2.5926603	0.7771988	0.0000000	6.1631726	11.724184
##	132	6.1154807	6.0024910	5.9718033	10.5507322	4.4523187	6.5161885	11.720309
##	133	3.8028549	3.5841568	6.4270228	8.6047385	3.8818310	3.8818310	7.370751
##	134	0.6795139	9.0928745	7.4372744	9.2607382	2.8711931	5.1895913	9.868784
##	135	5.9215982	1.3383388	0.3882447	9.0775758	3.4306733	6.2047785	10.724185
##	136	4.3082662	7.4860812	8.4791339	8.8325587	1.6497074	7.8703992	13.036962
##	137	2.7229468	4.1543483	3.9498897	8.9706820	4.4133301	9.5006216	12.334613
##	138	4.0735204	1.7239953	3.3746639	5.4935865	9.2641576	9.1677779	4.750296
##	139	3.7291938	6.0551805	5.9175559	11.8408331	2.6742799	5.0046272	8.971356
##	140	0.5056877	0.0000000	1.8840117	5.1294891	4.8433709	5.8810405	7.870349
##	141	1.3842156	1.1425441	3.2476845	15.0516659	8.5351502	2.2088918	5.967957
##	142	2.9307184	0.4315695	5.4022617	11.2268739	5.3111870	2.1656869	8.773287
##	143	1.6617040	1.6617040	6.7573700	13.0590749	7.0669599	2.4135399	3.375318
##	144	1.4865599	0.0000000	5.5209094	10.9303229	1.2337040	4.4413108	4.179591
##	145	3.8339324	3.4331063	3.0468926	11.5191383	10.0488002	7.8928014	5.816277

##	146	2.3877210	6.1891544	3.0341981	7.9996556	2.6262055	6.6608958	10.716040
##	147	6.6280605	3.2977930	7.7018249	6.9831943	2.2267859	9.6091346	12.265447
##	148	7.4567232	1.4857875	5.7598829	10.9815733	8.2110029	7.3386410	8.531957
##	149	9.7038631	6.7771764	6.8432025	5.6898247	1.9918982	8.1660094	9.244517
##	150	1.5071603	0.0000000	3.0282155	8.4631630	3.7967327	1.9121516	1.723821
##	151	6.6978572	6.0789770	8.8077313	7.9193472	3.6317562	4.2843883	11.862572
##	152	0.0000000	7.7827047	9.4455930	5.1310626	1.4117516	8.4363543	8.905931
##	153	0.0000000	6.8654549	0.8253786	7.9672603	2.0259147	6.8171359	9.005922
##	154	4.1623631	3.5268576	7.2175923	10.8880574	9.4568768	3.4863668	7.252809
##	155	0.6269530	1.0625362	6.9507938	6.8526656	0.6269530	10.3926523	11.045719
##	156	2.8027309	4.4542746	4.0007843	9.6047091	2.8027309	3.6388848	6.579619
##		rs_MS4A8B	rs_AP0D	rs_TM213	rs_TLX1	rs_ZFP57	rs_F0SB	rs_CHGB
##	1	10.3465821	12.848114	5.8785905	1.1923204	1.1923204	8.858305	4.3110526
##	2	0.7843365	10.943454	0.4448791	0.0000000	4.7159318	7.080538	2.5983890
##	3	2.9230351	14.961188	1.0686020	0.4497462	0.7921057	9.590596	1.5002922
##	4	3.4171504	10.200399	1.9350825	2.3317912	0.0000000	12.053903	1.3860936
##	5	4.6760530	10.821485	0.0000000	0.0000000	0.4815056	10.106466	1.1300083
##	6	0.0000000	7.910652	8.3297591	5.2213783	1.8453495	12.566737	3.2170446
##	7	0.0000000	11.007622	4.2862454	6.7317738	8.6471810	6.606048	1.7285301
##	8	0.0000000	8.308755	4.5177355	8.5189191	4.9976718	6.382206	0.4304994
##	9	0.0000000	13.258518	6.5704356	9.7382575	0.0000000	7.189369	0.6035967
##	10	6.6787241	10.198654	3.3165947	0.0000000	1.6026944	8.246547	0.4930324
##	11	1.5885168	17.493464	3.4198355	1.2253983	3.4198355	11.558927	1.4183519
##	12	0.8001648	11.798535	1.6888070	0.8001648	0.0000000	10.937625	4.1739030
##	13	0.0000000	7.749170	0.5474498	9.1607856	9.2233895	8.762774	1.2537473
##	14	2.1214133	13.651232	0.7400209	0.7400209	0.0000000	9.804827	0.0000000
##	15	1.0509544	12.606140	0.0000000	3.9347146	0.0000000	11.831470	1.2804813
##	16	6.7618424	9.021506	0.9432837	0.9432837	0.0000000	5.817012	0.0000000
##	17	5.6888881	11.838727	3.8457811	4.3679860	1.4180280	10.161949	1.1726155
##	18	10.9137996	9.972171	0.4665488	1.1013139	2.6657566	10.745609	1.8768803
##	19	1.4431823	12.130112	3.9909004	8.4428801	3.9107135	13.358802	2.5536063
##	20	1.5906260	12.624793	5.7821674	0.6551686	4.0709817	5.720596	1.5906260

## 21	1.1445685	17.043472	4.7673105	2.4434740	1.1445685	8.062698	1.5935928
## 22	0.0000000	4.684353	1.9571717	6.3743527	2.9240619	5.644188	1.7954345
## 23	3.9631782	6.272027	0.0000000	0.9573203	3.8733309	6.357355	0.0000000
## 24	0.0000000	9.806508	7.5966065	8.9625337	5.8833740	8.825854	1.8428984
## 25	1.3852101	10.155794	0.7179122	0.4031586	1.3852101	10.694334	2.0786781
## 26	10.3686351	12.639645	0.0000000	0.0000000	0.3405053	9.457573	2.1574318
## 27	0.0000000	11.659487	4.2965602	0.0000000	1.9521099	9.463862	1.4820222
## 28	0.0000000	9.741685	0.8710551	1.8019864	5.3935638	7.952055	2.1097283
## 29	5.0286796	9.761058	1.1410403	1.4895943	2.5414405	8.487889	0.6805044
## 30	3.5112403	13.789023	5.4380133	0.0000000	1.9898656	14.014875	7.2673513
## 31	7.3284721	9.399326	0.4826418	1.1322478	1.7587296	9.549926	0.4826418
## 32	4.4397428	13.992642	0.0000000	0.0000000	0.4339209	7.917084	1.9286546
## 33	2.3925372	12.849065	3.5394070	0.4374408	4.5650427	14.039407	2.0662959
## 34	1.8587767	12.235918	0.5238630	0.0000000	0.9074291	9.372857	1.4601135
## 35	7.3365449	17.783059	5.4770912	1.9735011	2.6978850	8.402408	2.3290949
## 36	0.5137939	11.000791	5.4091499	6.7823981	5.6494028	10.589998	4.1787545
## 37	5.4609981	11.835445	4.6745284	0.0000000	1.6564506	8.718178	2.8986340
## 38	0.0000000	10.487514	0.0000000	1.4264795	1.7006617	10.943687	1.0875986
## 39	5.1738510	14.983828	1.2117598	3.0803848	0.9088129	7.936238	1.4620000
## 40	0.0000000	9.338593	0.9733541	2.0742657	2.6177921	9.992005	2.9530231
## 41	0.0000000	4.694947	4.5653839	7.5752208	1.2082675	5.866371	0.7270927
## 42	2.8058290	9.246444	0.8066128	1.3208312	0.0000000	7.379770	2.2465297
## 43	0.0000000	8.250825	1.6911768	3.3733002	7.2063170	7.249226	0.9196833
## 44	8.6498177	12.636992	3.1396496	0.9542708	0.3923174	8.245665	0.3923174
## 45	4.4901786	13.132424	1.5617905	0.9826560	3.5529795	11.442851	2.8766839
## 46	5.1850300	11.199034	1.6728326	0.7903550	1.9700438	7.195028	2.6939887
## 47	0.6822137	10.616757	0.3810618	1.3285493	0.0000000	13.144035	2.6873743
## 48	1.2894804	11.858031	3.9756669	1.7272670	1.1080226	9.801638	1.9592879
## 49	0.0000000	11.176128	0.0000000	3.1655422	2.2331518	8.285097	1.0969365
## 50	4.8266705	12.732672	3.4096896	0.4028313	0.4028313	12.777239	2.3749282
## 51	0.0000000	12.796405	2.0595629	8.5564114	0.0000000	7.218898	1.1810389
## 52	6.4660887	17.027421	0.3399355	0.6147570	4.8920461	9.128546	5.7298872

## 53	1.4009204	13.354956	0.7279640	0.0000000	8.5810213	5.939636	0.9887029
## 54	2.2934882	11.651166	6.2116041	1.4718638	3.4506834	6.147492	0.7735744
## 55	2.5286713	13.624340	1.4796962	0.0000000	5.3240113	6.945351	2.1946544
## 56	0.0000000	6.653554	0.4924172	8.1107558	4.5963150	5.982895	0.0000000
## 57	3.2184557	14.314709	6.5352489	0.0000000	7.3375336	11.959123	4.7161678
## 58	4.0335111	12.610098	3.4919429	0.9715895	1.8329710	11.612839	3.2703794
## 59	0.0000000	11.840349	1.9800253	5.1599036	8.3648337	9.280311	1.1230040
## 60	0.3444877	12.093492	4.7777406	2.0828729	3.7155310	8.600014	1.2317396
## 61	4.6108477	11.011546	3.4247878	0.0000000	4.2446055	10.767413	0.0000000
## 62	2.0921736	10.179127	0.3748447	0.9184626	0.6721085	5.717764	1.1288873
## 63	2.5544415	9.827269	0.3457370	0.3457370	3.4261037	8.662867	0.6244285
## 64	2.4727737	11.535227	0.8698714	0.8698714	5.9207220	9.617364	0.0000000
## 65	0.3503841	8.019043	4.0351048	0.0000000	5.7709506	4.804245	0.3503841
## 66	3.7369295	8.390750	0.6304987	0.6304987	6.3645322	8.315797	1.2450697
## 67	0.7373406	14.020176	4.2739336	0.4153260	3.0008473	11.374189	2.1162317
## 68	1.3534927	11.999120	0.3907777	0.0000000	0.6978628	9.407463	2.9130522
## 69	4.2904834	13.198446	1.2379919	1.3702201	1.4913914	12.198530	2.8306813
## 70	0.7562547	6.479030	1.7705331	0.4270698	0.7562547	6.985946	1.6169693
## 71	0.7326599	11.290196	4.5944530	1.5777309	3.3901036	8.893045	13.0013979
## 72	5.7221873	10.687826	2.0166746	0.0000000	5.0271098	9.959522	2.1464271
## 73	0.0000000	10.134225	3.5395807	7.5817602	5.0301816	11.049484	3.5627187
## 74	0.6614760	8.913170	0.3683772	0.0000000	0.9050428	8.044086	0.0000000
## 75	2.3581149	13.571630	5.5198721	0.0000000	4.1813332	10.625462	2.8138735
## 76	1.0923428	7.937662	1.3274574	2.6515684	0.0000000	6.631141	0.0000000
## 77	0.0000000	13.818180	3.0229537	0.0000000	2.0197019	14.610462	1.6025044
## 78	0.4165155	8.844973	0.4165155	9.0547123	8.9982373	6.590684	1.2257068
## 79	0.0000000	13.734156	1.3484591	1.3484591	4.9732623	12.793597	0.0000000
## 80	0.4918018	12.379627	3.6758385	4.9379893	9.3080730	8.054481	0.0000000
## 81	0.5732776	14.072484	4.3239465	0.0000000	0.9824369	11.908092	2.2937236
## 82	0.0000000	14.779286	6.5329886	0.0000000	5.3243066	13.369515	3.0329119
## 83	2.0654344	10.671727	2.9822178	1.5151069	5.7431298	7.931708	0.3397075
## 84	0.3346827	11.904498	5.3136159	3.0549700	0.3346827	9.819558	0.0000000

## 85	0.0000000	7.334878	1.2528395	8.3328802	2.5116198	5.884874	0.0000000
## 86	6.9298738	6.977937	2.9362893	0.0000000	2.7020147	3.992324	0.2980717
## 87	4.9265593	10.690596	0.0000000	0.0000000	6.2356428	6.987648	1.4072440
## 88	0.5818815	9.598920	0.0000000	0.0000000	0.5818815	11.105375	0.0000000
## 89	5.7770462	8.901072	5.7101479	1.1650436	2.1086917	6.445219	0.4998841
## 90	6.0576019	15.208205	0.3257318	0.0000000	2.4077062	7.374206	11.5881067
## 91	1.0535979	11.100932	1.0535979	6.7286770	6.1982466	7.399189	0.7799741
## 92	4.9773898	12.517752	0.6763577	0.0000000	2.1008095	6.517433	1.6291468
## 93	5.3806152	7.657724	0.0000000	0.0000000	0.4209405	5.714344	1.0118534
## 94	3.3862039	12.041625	5.7319706	2.9776096	0.3634515	7.736882	1.7190958
## 95	3.6861643	11.104240	0.3517414	0.0000000	0.3517414	5.847967	0.8705028
## 96	0.0000000	10.116381	0.5270703	0.9121900	5.0717412	8.076757	0.5270703
## 97	0.6763577	9.410928	1.6291468	2.8034130	3.6625132	5.031157	5.5562025
## 98	1.9123816	8.962684	1.6197886	0.0000000	2.6283303	5.941808	0.4281424
## 99	6.9760290	9.720170	0.9659874	0.3981314	1.3723392	7.468051	3.2600708
## 100	0.0000000	8.570966	0.0000000	3.2253212	2.6790634	7.129708	0.5765705
## 101	7.8083007	14.006520	8.1835208	0.0000000	4.3019973	4.974029	2.0429595
## 102	1.7655347	6.714246	0.0000000	4.0179219	0.0000000	6.221104	9.6478182
## 103	5.8743617	10.839132	1.7388543	0.0000000	0.3330802	9.120457	2.1298105
## 104	3.8615286	16.049333	5.2672848	1.1111649	4.2318778	5.920227	0.0000000
## 105	3.3488981	8.307439	0.0000000	0.3124328	0.3124328	5.499878	1.2933116
## 106	6.0782618	8.474579	0.3923174	0.0000000	0.9542708	5.400989	0.0000000
## 107	0.4455148	8.524506	0.0000000	0.7854250	0.0000000	7.154506	2.0895998
## 108	1.2933116	7.586632	2.0676043	1.7317915	3.3625400	7.207759	1.4547023
## 109	0.5315686	11.399320	1.4760706	0.0000000	0.9191494	7.924206	1.6903724
## 110	0.7357821	8.773009	0.7357821	2.8719816	3.4124293	5.582140	8.7363424
## 111	5.9373256	13.405869	0.0000000	3.2092506	0.9648052	7.543777	1.9468431
## 112	5.9204053	11.023477	3.9995761	0.0000000	0.0000000	7.605031	1.8070251
## 113	3.4662747	10.326510	2.5422828	0.0000000	3.6622739	6.124276	2.2075181
## 114	0.0000000	10.838377	6.8537736	1.4135399	0.0000000	6.378447	0.0000000
## 115	0.0000000	10.825031	0.0000000	8.8106288	3.7016821	6.679404	1.1382247
## 116	1.9772066	10.133642	1.9772066	0.7248249	7.0956101	7.613556	1.8523984

## 117	7.5771516	9.495226	0.5749250	0.3159140	0.0000000	6.078633	1.8847151
## 118	0.7000845	9.467724	3.7540537	1.5229597	0.7000845	5.561360	0.0000000
## 119	3.6212314	11.675078	2.1459709	3.0346383	3.8440944	6.280593	1.0199154
## 120	0.3405053	8.393922	3.2903654	7.8093919	0.3405053	7.783482	0.0000000
## 121	4.7935370	11.991892	2.6864333	0.0000000	1.4918018	5.718466	2.4675403
## 122	5.8523310	14.561702	1.9208268	0.0000000	0.4311415	10.941649	1.0320303
## 123	4.3415375	9.901044	2.1919416	1.4774701	3.5926962	7.364802	1.4774701
## 124	1.5041119	15.997607	3.9145837	2.0217995	0.0000000	6.170189	1.5041119
## 125	0.2632748	8.082810	0.2632748	2.3798982	4.6909646	6.550151	0.6787029
## 126	6.8010759	10.437814	0.0000000	0.0000000	0.0000000	6.657760	1.6364506
## 127	4.1176867	14.246276	3.3571156	0.0000000	0.0000000	5.220187	0.0000000
## 128	4.1454085	8.750857	1.1053428	1.2865263	0.8980922	7.096728	10.9925249
## 129	1.6307316	15.691782	0.0000000	0.8786861	0.5051796	5.492808	0.8786861
## 130	0.0000000	14.152660	0.0000000	3.3951862	4.9833266	5.241901	1.1647219
## 131	0.0000000	6.599956	10.0374539	0.7771988	3.9664674	13.684047	1.0501186
## 132	6.6843615	14.008565	1.8525982	0.9034240	1.2052048	6.920385	1.4547023
## 133	1.7466137	13.777484	2.0499792	0.0000000	8.2390667	7.172986	2.5138444
## 134	3.2360793	11.456583	3.8005686	1.7682479	2.2958406	5.720746	2.1072861
## 135	4.1795190	14.324149	5.1391543	0.3848235	0.3848235	7.485692	1.1524430
## 136	1.1906781	10.651139	1.1906781	1.4383461	0.8914970	7.875661	0.0000000
## 137	0.4330663	12.002917	1.2633950	7.3373034	2.2784309	8.323405	5.4385224
## 138	0.0000000	9.615579	5.7388840	7.5132325	3.0851357	6.627871	0.6561760
## 139	1.8842462	10.652552	0.0000000	0.9238718	0.9238718	6.337185	1.8842462
## 140	0.0000000	8.193632	0.0000000	0.8793921	2.8673430	6.297665	0.5056877
## 141	2.0774481	9.318042	8.8924976	1.1425441	5.9863973	9.773129	3.6638797
## 142	0.7633266	11.154131	2.0489685	5.2726652	5.1505231	6.206989	1.6285870
## 143	0.7834986	6.966530	4.7912046	8.7798959	4.0451022	5.655621	1.0579701
## 144	0.0000000	7.168171	1.7016821	6.9698447	0.0000000	6.523742	0.0000000
## 145	0.0000000	11.255408	7.4780375	4.1472660	5.3700771	5.141752	1.5935450
## 146	1.9344033	11.216246	1.5268200	0.5562087	7.7979390	6.901259	0.5562087
## 147	7.2081534	10.210836	1.0733404	3.1855336	0.0000000	10.803587	1.3058538
## 148	0.0000000	6.989257	7.5678306	0.0000000	0.6782522	5.797579	3.0361340

## 149	1.0817487	10.920842	3.3121859	7.5732548	0.0000000	7.888578	11.5680823
## 150	1.9121516	6.702911	11.0248388	7.9292306	2.2280183	7.149228	0.9420077
## 151	5.2942053	12.311235	0.5912007	0.0000000	0.5912007	12.783167	0.8153295
## 152	2.6774180	15.380950	0.0000000	1.6209617	0.0000000	11.915598	0.8720801
## 153	0.8221999	16.064073	0.4689482	0.4689482	2.9124583	5.242980	2.4876664
## 154	0.0000000	10.826542	3.8153807	5.3754009	4.1623631	6.546956	4.1878390
## 155	2.4206980	9.561594	0.3472121	0.3472121	0.3472121	6.866191	3.1525404
## 156	0.0000000	8.798743	0.0000000	0.0000000	0.5831339	8.345556	0.5831339
##	rs_HP	rs_FAM3D	rs_RERGL	rs_CXADRP3	rs_CHST9	rs_CYP4F11	rs_CD177
## 1	5.9097659	2.4016305	4.1109729	4.5929832	5.5627797	8.3110230	2.8068808
## 2	0.0000000	1.2895984	1.6630713	3.3771237	6.0757915	4.1965520	2.3140294
## 3	3.3937868	1.5002922	4.3752550	0.4497462	3.5818212	8.3251138	3.4908653
## 4	2.7329204	2.0797706	2.3317912	2.8179097	3.3616140	6.7697585	1.1442422
## 5	1.7558276	0.8418926	3.9689478	4.7628272	2.5246655	7.4506364	3.2203454
## 6	3.7493305	13.5777995	5.1174332	0.0000000	8.7392692	4.9337756	2.5028398
## 7	4.3144790	5.4531093	3.7789024	1.5500634	5.4013881	3.8188710	3.1231861
## 8	4.4956696	3.6410026	3.2770028	0.4304994	4.9659228	3.1127335	3.2242873
## 9	0.0000000	10.0790311	0.0000000	1.0279325	2.0416986	2.3663642	1.3553546
## 10	4.2730459	1.1519887	2.4545971	2.7449791	0.4930324	1.9455702	1.3948982
## 11	4.0924527	3.6293566	4.1204681	0.7390704	4.6680567	8.1752062	5.9200956
## 12	6.2312980	1.9873936	4.0176013	2.3440047	4.5612834	5.8691311	2.8680941
## 13	3.2183782	1.2537473	0.0000000	0.9433588	2.3656086	2.3656086	3.3547906
## 14	3.9768493	4.0947259	6.0446870	2.6694577	5.5621386	2.1214133	1.5900990
## 15	0.7778720	1.9480027	1.9480027	11.7056283	5.0512503	7.6047971	1.2804813
## 16	0.0000000	1.2536263	0.0000000	6.0357427	0.0000000	7.7081997	4.1385524
## 17	4.6580686	2.2517191	4.9195403	2.1191901	4.6580686	8.9854230	1.4180280
## 18	7.9544342	1.5405729	6.4351085	0.0000000	5.9204053	4.4084877	4.6248729
## 19	0.3634515	4.3764571	7.6303101	3.1735752	6.2868054	4.6144272	1.9505804
## 20	1.4459385	2.2437300	0.6551686	3.9687635	2.7544600	2.8723757	2.4850146
## 21	2.0802142	0.8537562	1.3864799	0.4891319	2.3322496	7.7118872	5.1744264
## 22	9.5383568	0.0000000	1.6132016	0.4976379	3.1416617	6.0279148	3.4978039
## 23	0.9573203	1.2705887	6.5436444	7.2802493	5.3748447	1.9355352	2.7334411

## 24	4.3377182	4.4147444	2.2314939	0.4537546	5.4553469	0.0000000	3.0690663
## 25	4.3916509	0.7179122	1.1951586	0.4031586	1.7035437	8.2048220	3.4588019
## 26	4.8424610	0.8469546	3.0797877	1.0461418	3.6983407	8.7434638	1.2210728
## 27	3.2093910	5.8407855	5.0410020	3.7606255	7.4240126	7.5943433	7.3718559
## 28	3.5062338	2.1097283	1.8019864	1.4103411	3.8343269	7.6525388	1.4103411
## 29	3.5666812	0.0000000	3.2384812	5.4820996	2.3837734	5.9859762	1.6366826
## 30	3.2546847	4.4465408	5.6342215	1.0803166	7.6474476	7.8971920	3.2546847
## 31	5.2611246	2.1940871	2.1940871	4.6345875	4.1767456	9.4086331	4.0440356
## 32	4.5733139	0.4339209	4.3432799	4.1285574	2.0558551	7.0809348	6.8012402
## 33	5.2686103	5.8140479	8.2489878	3.9563913	6.6051298	6.0327709	3.9230826
## 34	4.5167338	2.1707583	7.2442497	1.4601135	5.6945487	6.9747713	2.3046571
## 35	3.1778859	5.4888941	1.6759965	5.5006013	2.3290949	2.7770304	4.9880257
## 36	3.6495695	6.6162092	5.5736775	1.8345494	7.6182908	2.7138937	2.3998820
## 37	2.1517939	2.5198690	5.1472334	3.4463886	7.6798073	5.5298272	2.2851950
## 38	1.4264795	2.1295138	1.4264795	3.6477405	0.8827604	6.0923935	6.2553270
## 39	5.0455784	6.3833691	0.9088129	0.5247658	1.2117598	5.4302117	3.2890229
## 40	5.9914175	0.9733541	2.2790552	0.0000000	8.3315010	6.2199216	6.1301690
## 41	0.4088205	10.1674934	4.2983577	1.2082675	8.0141935	0.4088205	2.9783055
## 42	7.0975771	9.4455608	1.8567069	1.3208312	1.0865120	3.4246534	6.1581128
## 43	0.9196833	8.1682690	4.6735960	1.2249664	6.6626627	5.9139808	2.7646434
## 44	3.1899194	1.8074374	3.3310172	0.9542708	4.3707920	7.2739075	3.0335287
## 45	6.1254465	1.9739051	5.3753036	3.7225862	4.3929905	6.8961071	5.3753036
## 46	1.4975868	1.4975868	3.8933428	0.0000000	6.0742699	8.1424747	7.4113839
## 47	8.2488972	0.9312292	4.2120479	5.5153845	1.8955741	0.3810618	3.9830027
## 48	2.4149744	5.0089037	3.6501671	2.9878484	8.4087373	4.9959005	2.9343278
## 49	7.0441700	1.9438838	3.7879757	4.6717180	0.8907969	6.1332203	3.6958825
## 50	5.3325146	0.9754835	3.9536284	4.1755725	4.1496252	8.2189957	3.7614342
## 51	3.8387501	8.2934146	0.3971458	0.7081431	7.8755362	0.9639180	0.7081431
## 52	2.5315936	1.3751785	3.1651402	5.6094447	3.9146411	5.6405110	2.8828778
## 53	1.2095158	0.9887029	1.2095158	0.0000000	4.9780492	3.0954519	0.9887029
## 54	1.2744704	1.4718638	0.4380799	1.4718638	4.8941435	7.1837862	4.7302704
## 55	4.9732163	2.4521473	6.0377973	5.9639180	5.2468185	6.5037240	2.9182526

## 56	0.8589358	1.3935809	6.0815292	1.1508846	0.4924172	2.2207943	1.6013162
## 57	6.2572671	6.9477994	8.0657495	1.6632535	7.6902110	6.8874570	1.4885664
## 58	1.6970176	2.7583032	5.2539363	3.1190241	8.2033260	5.5187428	3.2216760
## 59	5.6061076	1.6142387	0.3723950	2.5139960	7.2542388	0.0000000	8.5877055
## 60	1.0557510	0.3444877	1.9879757	0.8552722	3.1844707	7.4057014	1.5300208
## 61	5.8251496	1.6463470	7.6680986	2.0155689	8.8261182	5.5057099	1.7802261
## 62	3.4709663	0.3748447	4.1866115	2.2801546	5.4006472	3.8431899	2.7937503
## 63	0.8579014	1.9923334	3.7209351	0.0000000	3.5312192	6.5486509	2.4863540
## 64	5.7647893	1.1642714	3.8731537	3.6053639	5.3476196	5.8908552	1.6176276
## 65	1.6777112	0.8676593	1.0701145	0.8676593	4.9904240	0.3503841	4.9652533
## 66	4.4481807	1.0678452	2.7560412	1.2450697	1.5452271	6.6069071	1.0678452
## 67	3.0597360	4.6057847	5.0741843	1.0005049	7.7866826	7.0742036	2.2231445
## 68	4.0216130	0.9509909	3.9937196	5.9962170	5.5170048	8.4109054	1.6678467
## 69	3.8666113	2.6341983	8.3232507	5.1372494	7.4873738	8.1774016	1.2379919
## 70	0.0000000	0.0000000	0.0000000	3.2650768	2.3602238	5.8282355	5.9295756
## 71	2.7515708	0.2875905	2.3759013	8.7007379	2.3759013	6.2518989	1.4669664
## 72	5.0101622	1.8740887	4.4806012	1.0992279	4.4557809	2.9018227	4.5525984
## 73	4.5487695	1.6136731	5.4255231	0.0000000	2.7367564	1.4868173	3.9707984
## 74	4.4168870	0.6614760	3.9309738	4.3770474	2.1668440	6.5468266	1.8551127
## 75	5.9080347	7.8186582	7.3478853	3.4800971	8.1650663	7.9833556	2.2658869
## 76	1.3274574	1.0923428	1.3274574	0.4619476	2.8152270	7.0020476	0.0000000
## 77	6.1132858	3.3455383	6.7808521	1.0131406	4.0245768	6.5650853	1.0131406
## 78	0.4165155	6.1142233	0.4165155	0.4165155	2.6678467	4.4429236	10.6211018
## 79	10.4200362	1.3484591	7.8923783	0.0000000	2.0330882	6.7439673	1.6144272
## 80	0.8579014	1.5998414	1.5998414	0.8579014	6.8216515	2.2190601	0.0000000
## 81	7.8040122	3.1385524	8.0469335	3.3603783	5.8959763	1.5614972	0.9824369
## 82	6.9957988	6.8405350	8.4526486	2.4568850	9.1682088	6.2730664	1.4834160
## 83	3.1641266	1.9708905	5.5522879	4.7557101	5.6921900	8.7001588	2.2377167
## 84	5.8753451	0.6061579	3.0549700	6.3564942	2.3722556	7.8486474	5.2308755
## 85	0.0000000	0.6353365	5.2918356	1.8030617	6.8064104	1.8030617	1.0748479
## 86	0.2980717	0.9395275	0.0000000	1.8172549	3.8388409	4.4963026	0.2980717
## 87	3.7957981	0.9937830	4.2858682	2.3119681	0.0000000	7.2699467	9.5143927

## 88	1.8007032	0.0000000	0.5818815	0.0000000	0.0000000	8.1854419	3.9454579
## 89	0.0000000	3.2144979	0.8704239	0.4998841	6.1154099	6.3749716	0.0000000
## 90	0.0000000	1.4715517	0.3257318	2.7710615	0.8154935	7.5981865	0.8154935
## 91	2.8979955	4.4220580	0.4421208	5.7566390	0.0000000	0.7799741	1.0535979
## 92	4.4151434	3.0315716	0.3774014	4.3947816	1.3191555	3.1817705	4.6043916
## 93	4.2954439	2.7570873	2.0177794	0.7464848	1.7535618	6.8047828	1.0118534
## 94	5.0853949	4.4349884	4.9845438	5.9075108	1.7190958	7.4098525	1.7190958
## 95	5.1046344	0.3517414	1.8010759	5.3293030	4.4941083	2.9309644	1.0734090
## 96	3.4779622	0.0000000	1.2159270	7.7082962	3.6899812	1.8662354	2.1787784
## 97	0.0000000	1.1350094	0.0000000	0.3774014	2.3747891	3.2738441	1.6291468
## 98	4.9246273	1.2522945	2.1555550	5.0044475	2.1555550	5.9090002	2.7067957
## 99	5.2183123	0.3981314	0.3981314	6.4449420	4.2077679	6.7979533	3.2600708
## 100	2.3017340	0.5765705	0.0000000	5.2607671	1.5681294	6.6402984	1.5681294
## 101	5.3129410	4.7553042	4.5937661	3.4091058	1.6232114	6.0391252	1.7401504
## 102	0.8479969	1.3785116	0.0000000	0.4854268	3.4059924	8.0948694	2.5360529
## 103	4.2220549	1.0278618	0.0000000	6.0822172	0.0000000	6.4933095	4.7395403
## 104	2.3934437	2.5915837	0.4716557	8.1482391	3.3066851	6.4848197	2.6812918
## 105	0.5691022	0.9761436	0.0000000	6.6938619	0.3124328	6.8592366	1.9641029
## 106	1.9308130	3.5775376	1.1699891	4.4959637	5.2432844	7.5465241	4.7682955
## 107	5.1592295	2.3161457	0.0000000	4.0494565	1.6648924	7.2013673	5.4612601
## 108	4.7139597	1.5998890	0.3675947	1.8525982	3.1897929	7.1440719	2.8265180
## 109	5.2299609	4.3008778	4.6470900	0.9191494	5.4070128	4.2678953	4.6212079
## 110	1.9978343	0.4143521	0.7357821	4.8216490	1.4132149	5.4234504	4.0847531
## 111	2.8130937	2.0609466	2.0609466	1.3708896	5.8044099	4.3471554	5.7113820
## 112	5.6601471	4.0366704	3.1561053	0.0000000	5.7743443	7.1262574	1.6241945
## 113	8.0853779	1.3831651	1.5900031	3.1109812	1.1416290	5.0162779	4.1609041
## 114	6.8802606	1.2210109	0.9987732	3.6607575	3.3197624	7.8049635	2.9365155
## 115	1.4863025	4.7454579	0.0000000	0.6786128	1.4863025	3.5619493	3.7667860
## 116	2.4774701	0.7248249	0.0000000	4.9247365	4.7950604	5.3853033	12.1875103
## 117	4.7781139	1.4402081	2.5597365	3.6998958	9.1264327	6.6174278	2.0643310
## 118	7.5187397	10.5192268	0.0000000	0.0000000	0.0000000	3.6138852	2.7271581
## 119	7.8228901	2.0297356	2.6963277	1.7647283	3.4049848	5.9051030	1.4398890

## 120	0.3405053	0.3405053	0.0000000	9.4874287	0.3405053	6.7261623	1.2208252
## 121	5.0907095	1.7073039	4.7456084	0.5391340	6.6074945	0.9306995	2.0606354
## 122	6.7351931	0.0000000	3.1716872	2.5548835	2.6379580	7.1539147	1.2589410
## 123	5.1973936	2.4956952	3.0247452	7.0325285	1.6514536	5.3184723	4.8499843
## 124	7.1034630	3.9435744	1.9087361	2.2243799	2.3159140	4.5638110	2.9512148
## 125	2.5864045	0.8487982	0.8487982	8.7255599	2.3798982	5.5126567	1.8492387
## 126	4.0165944	0.8825257	2.6967728	3.2381907	4.3802377	1.1797658	1.6364506
## 127	0.4390380	0.4390380	0.4390380	1.6479591	1.2765562	4.6946295	4.2583832
## 128	1.8443455	0.6559929	0.8980922	1.2865263	4.5867587	6.2775069	4.2141481
## 129	2.1225402	3.0955869	3.8072828	4.5112909	1.9764736	8.1176878	3.1646737
## 130	5.9312765	5.8299333	1.8006204	0.4997821	3.6542751	3.8325255	9.2825165
## 131	0.4403144	0.0000000	0.0000000	1.9467683	0.0000000	8.5090303	3.7152564
## 132	1.6673018	5.3590502	5.9926619	2.6375871	5.9926619	8.9764447	5.4042322
## 133	4.8517940	1.7466137	3.5361400	2.7843574	3.0806236	5.7444544	5.7231681
## 134	5.6958463	1.4878979	4.5209376	5.2817131	7.1258525	7.1227421	6.7838416
## 135	3.0595629	0.3848235	0.3848235	3.2570257	3.4306733	5.5407650	11.9676874
## 136	3.3793021	1.6497074	2.8900575	8.8107474	4.5112277	8.7490089	2.6159812
## 137	3.6898359	1.7870145	2.3789832	3.2331825	5.2522794	6.2129447	1.7870145
## 138	0.0000000	7.9427086	5.9551803	0.6561760	3.8895612	3.5066146	0.0000000
## 139	5.8831002	0.6763577	1.8842462	3.0834857	7.0637726	2.1981169	3.7928345
## 140	3.0970545	2.1238317	0.0000000	0.5056877	2.4900566	3.2320928	5.1294891
## 141	3.1781569	10.6568955	0.0000000	0.8521587	8.8223822	5.3805979	3.6638797
## 142	7.5157787	1.7827021	2.1656869	1.0328061	1.4559650	7.7036510	3.6842689
## 143	2.0860704	4.1068006	6.9623628	0.4443490	8.8413077	4.0132300	1.2884176
## 144	8.0718828	1.2337040	1.2337040	0.9268344	4.0284631	3.6163342	3.1874352
## 145	2.2471680	1.5935450	1.2876496	0.6567252	2.8761535	0.0000000	2.6953480
## 146	0.5562087	0.9565771	0.5562087	0.0000000	2.1018517	9.2913733	3.6734660
## 147	6.2214402	0.7959331	3.9748505	1.8385888	3.2427549	7.2575755	7.6207491
## 148	4.5366062	1.4857875	0.6782522	0.0000000	10.2175651	0.0000000	3.4859549
## 149	0.8027309	1.0817487	0.4564908	5.7999395	1.3154503	8.4850605	3.5599445
## 150	1.2521128	12.6284874	4.9937378	0.0000000	10.4165127	2.0787123	2.8969693
## 151	4.9005770	2.1843755	7.5262504	4.5255427	6.2757036	7.6034238	0.5912007

## 152	5.8652334	1.6209617	3.2807188	0.5010060	0.0000000	5.1138713	7.8308517
## 153	0.0000000	0.4689482	1.3426685	1.8829951	4.7405013	0.0000000	1.7243883
## 154	4.6020233	5.0812928	3.9992785	0.3994446	5.4404274	0.7119354	1.8285503
## 155	3.6038340	1.3966527	1.8958842	0.6269530	4.9763774	4.2655719	6.3497050
## 156	0.5831339	0.5831339	0.5831339	0.0000000	2.3176224	6.3255843	6.7293611
##	rs_TBC1D3G	rs_NKX2.2	rs_S100A2	rs_GLYATL1	rs_MMP10	rs_SMOG1	
## 1	4.2795753	6.7156477	6.6371001	8.3757172	3.2582325	4.4588938	
## 2	0.0000000	0.0000000	6.8242396	4.7356197	5.8231761	1.9594734	
## 3	0.4497462	1.0686020	7.8246234	2.7766936	7.2028017	7.6305591	
## 4	0.0000000	0.0000000	3.3616140	0.4889263	2.7329204	3.6666884	
## 5	3.6426669	0.0000000	6.0696334	7.0545598	4.7200924	3.5961599	
## 6	0.0000000	1.0266584	7.9685591	6.1501677	1.3538878	11.5584406	
## 7	2.9894660	0.0000000	10.0083222	3.3583541	4.4222061	9.1843656	
## 8	2.6359865	0.4304994	7.0605576	4.1163315	3.1127335	10.8867451	
## 9	0.0000000	0.0000000	10.8247224	3.4424658	3.6357660	6.5939035	
## 10	0.0000000	0.0000000	3.1935037	9.0213665	2.0906163	0.8598106	
## 11	7.4395076	2.2265702	2.4193501	0.4164074	3.5073380	9.6419175	
## 12	1.9873936	7.1519369	0.8001648	7.2915934	7.3386018	4.9378905	
## 13	0.0000000	0.9433588	8.3442404	1.9142201	4.1004058	5.8521737	
## 14	5.0239162	0.0000000	7.6682674	6.0000609	5.9383258	4.8982277	
## 15	6.7978366	0.0000000	4.6608716	9.0247931	4.0324535	2.4026130	
## 16	2.9284272	0.0000000	3.6480857	6.3532668	2.8992723	4.8653992	
## 17	0.0000000	0.0000000	9.7264801	7.6883734	5.3622525	1.9732072	
## 18	5.8584262	0.0000000	3.1104468	7.9320529	2.2685242	4.0244083	
## 19	4.3962212	1.2824991	6.9126726	6.8315201	4.7890510	6.1362652	
## 20	0.0000000	0.0000000	2.6916682	4.8943230	1.2851063	3.5754455	
## 21	0.0000000	6.5765297	6.8482035	0.0000000	8.6135206	4.4046034	
## 22	0.0000000	0.0000000	10.3337577	1.4045762	2.5710214	10.5919166	
## 23	0.0000000	10.0427488	2.6274901	4.7494055	2.3889610	1.9355352	
## 24	2.9178136	0.0000000	8.8503222	2.7102389	2.5372961	10.0447463	
## 25	5.7214301	1.1951586	3.7967016	3.2300493	3.2300493	5.0266938	
## 26	0.3405053	0.0000000	5.3173077	0.6158871	4.9206363	2.9366285	

## 27	2.4071352	0.4422269	7.2342867	7.6365623	7.9104826	4.0688342
## 28	0.5002922	5.8732374	2.1097283	1.9640659	0.0000000	4.4685768
## 29	2.1093271	0.0000000	3.3704573	6.6459682	3.6727534	2.2067370
## 30	0.8015726	0.0000000	6.2766846	3.5112403	2.9424394	7.4562115
## 31	4.1446909	0.0000000	9.9237501	6.4267512	5.0865503	1.7587296
## 32	2.3814218	0.4339209	4.6357312	3.8412989	5.5854884	4.2925241
## 33	0.0000000	2.3925372	5.4549063	5.2818058	4.8920461	6.0091613
## 34	0.0000000	0.0000000	5.5935181	8.5368409	1.8587767	4.8590253
## 35	5.4288894	8.3418706	2.6141444	10.0899977	0.0000000	5.7853648
## 36	0.0000000	0.5137939	7.4018216	2.9716263	1.8345494	6.6349591
## 37	0.0000000	0.5165195	6.2864284	10.6467733	6.4727721	2.6242647
## 38	0.0000000	3.9398660	3.8859745	8.0582932	1.9309644	4.8076486
## 39	0.0000000	3.7785345	0.9088129	7.0075263	0.5247658	2.1730635
## 40	5.1955641	0.0000000	12.3849953	4.1970004	1.6995072	6.1367697
## 41	0.0000000	0.0000000	6.8580345	1.2082675	0.0000000	8.2498321
## 42	3.0820724	0.0000000	3.7398157	8.8842981	4.3292241	8.4484021
## 43	2.6667566	0.0000000	7.2826576	6.4288425	4.3657345	9.5010101
## 44	0.0000000	0.3923174	6.8502981	4.4347350	7.0641812	3.2385117
## 45	4.2677305	3.0566876	4.1369706	3.9215506	4.3590783	3.6117626
## 46	0.0000000	0.0000000	10.1672942	6.1577107	11.0815732	6.8969100
## 47	0.0000000	1.4925198	2.3874177	7.7624996	3.8072313	4.0103233
## 48	0.0000000	0.6578229	7.3286372	10.3440352	4.9014510	6.8101269
## 49	4.9275836	0.0000000	4.7803416	5.9393324	5.6756438	2.8031237
## 50	0.0000000	0.0000000	5.2371774	4.4122057	4.8429537	3.8283879
## 51	0.0000000	0.0000000	11.3399918	3.3931004	3.5180693	9.1250288
## 52	0.0000000	0.0000000	3.4719158	1.2193389	4.1487308	2.8299510
## 53	0.0000000	7.2317271	3.9787631	5.1478968	2.9801899	4.3242346
## 54	0.0000000	0.0000000	2.2934882	2.8847542	0.4380799	1.6455172
## 55	5.6187261	1.1326426	3.5887566	2.0975097	3.2246886	3.3979125
## 56	0.8589358	0.0000000	9.6872597	2.4529117	3.0571036	8.0893647
## 57	4.6851048	5.3352939	5.4707191	3.7313245	2.2054238	6.8697431
## 58	0.0000000	1.1898562	5.2171376	5.3363191	2.8888309	6.2652681

## 59	2.5095185	8.0459294	10.3731267	0.0000000	2.3569889	8.9170367
## 60	0.0000000	0.0000000	2.7363451	4.8196784	3.5258809	5.3640856
## 61	0.3832757	8.1499523	5.2643262	4.1238814	5.4364251	3.3406050
## 62	0.0000000	0.6721085	3.9851087	6.7760684	5.0202222	3.5823633
## 63	0.0000000	0.3457370	1.5338623	5.6828261	0.8579014	1.6628435
## 64	5.1766260	2.1076544	3.6535875	6.9333921	6.4438901	4.1333498
## 65	0.3503841	0.0000000	10.8787656	0.6320820	3.2089698	9.2241763
## 66	0.0000000	0.0000000	2.5688104	4.5188687	4.3154648	2.1005740
## 67	3.0597360	0.0000000	6.0884109	4.3228439	4.7910066	7.7311445
## 68	3.5001009	0.0000000	7.1893304	6.2880041	4.9765011	5.1634102
## 69	0.0000000	5.5396644	5.4896457	3.7255558	3.2974115	5.3604170
## 70	0.0000000	0.4270698	2.1523457	7.8992741	4.9040890	5.6809882
## 71	0.0000000	0.0000000	5.1459505	1.2161755	6.1525221	7.6322493
## 72	5.7733054	5.7325568	3.9865475	9.8022751	4.8855988	3.5901708
## 73	0.0000000	5.7493787	4.1697006	0.0000000	0.3305584	7.7925014
## 74	5.8522836	0.3683772	3.0481839	4.2504841	3.9031926	2.0702176
## 75	5.6261617	0.0000000	7.6826042	6.2821692	2.5265446	7.4973130
## 76	0.8113066	0.4619476	6.2282261	4.6953257	6.4499443	2.7357171
## 77	0.0000000	0.0000000	7.5179142	0.5937840	0.0000000	7.9026115
## 78	4.2534069	0.7392433	8.2168399	1.4186757	3.8127241	10.1605954
## 79	0.0000000	0.0000000	7.2868313	1.6144272	2.6216651	6.4780706
## 80	4.1419886	0.0000000	6.9313533	1.1496496	3.6292400	8.4239113
## 81	0.0000000	0.0000000	4.9881211	5.4248986	0.9824369	7.8320843
## 82	0.0000000	0.5350576	5.8247755	2.7734478	0.9245560	7.7880782
## 83	0.0000000	2.5954559	5.0380674	4.3861005	3.2471376	2.5306451
## 84	6.3230115	4.3449066	6.7344793	6.6619363	8.0107748	5.8429009
## 85	4.6316747	0.0000000	10.4402273	1.9131479	4.1819612	5.2079436
## 86	0.0000000	0.0000000	0.7556567	7.2147533	2.9789095	0.9395275
## 87	6.1469240	0.0000000	4.1846294	1.9906645	2.9277827	4.1846294
## 88	0.0000000	4.8238716	3.3135216	3.0792245	0.5818815	2.7993567
## 89	3.0796682	4.5203217	4.3255015	7.6362628	5.1275507	2.6743703
## 90	0.5912964	1.0094905	1.4715517	2.1846929	5.1058792	1.1804662

## 91	0.0000000	0.0000000	3.4169613	8.8430693	3.3676926	1.2834477
## 92	0.0000000	1.1350094	2.2891262	2.6741894	4.8485478	3.6961830
## 93	4.8411127	3.8965044	4.4375740	4.5461783	4.5669491	2.5220055
## 94	0.0000000	5.5140938	7.9238254	7.8233762	5.7397266	5.1095444
## 95	0.0000000	0.6343145	4.6608431	10.2115358	6.6847893	2.3621613
## 96	6.0404980	7.1818559	6.0596992	7.3156631	7.1774674	4.1140088
## 97	1.6291468	0.6763577	4.5316435	0.6763577	1.9965334	5.6101951
## 98	0.0000000	0.0000000	5.2729227	4.1644323	5.4991890	3.0455129
## 99	2.9984302	0.0000000	3.1088422	8.1537288	2.0627780	9.7304608
## 100	0.5765705	0.0000000	5.6756409	3.9305481	5.0415628	2.8850081
## 101	0.3335382	2.3677065	2.3677065	6.9843353	0.8320393	2.8563683
## 102	0.8479969	0.0000000	2.2016339	2.8073549	3.1043367	1.3785116
## 103	0.0000000	0.0000000	2.0415584	2.2130050	2.0415584	7.8047596
## 104	2.6812918	7.5320512	6.0267558	9.4580184	6.6986561	2.7657469
## 105	0.0000000	0.0000000	2.2835959	3.0451459	5.5822820	2.5450293
## 106	5.3694909	0.3923174	7.4336973	5.9308485	8.9597522	3.8827506
## 107	3.8825355	0.0000000	2.4173260	7.7615698	6.8129949	1.2911910
## 108	0.0000000	0.0000000	4.4523516	2.8265180	5.4287688	5.4576337
## 109	0.0000000	0.5315686	8.4559453	5.3131406	7.8785077	4.0131496
## 110	3.6218409	6.8258085	7.6337567	5.1671210	6.1469057	5.9279012
## 111	0.3975839	7.1386425	3.5974239	5.1911283	0.3975839	4.5365565
## 112	0.0000000	0.0000000	7.5483734	6.6872203	7.0421245	4.0728261
## 113	5.4992081	3.5676063	7.0496711	8.5643907	6.9310850	3.0422241
## 114	5.8784875	4.1406887	2.4130795	6.9976165	2.3199936	2.1136338
## 115	3.9750523	5.1140088	5.8443003	7.6160489	5.7668548	4.7773987
## 116	0.7248249	0.0000000	4.6146333	7.5596692	6.1129399	4.3860246
## 117	0.3159140	0.0000000	1.5648171	7.4756443	1.8847151	1.9773166
## 118	0.0000000	4.4337674	9.0120739	4.1076795	9.7583636	4.2086031
## 119	0.0000000	0.0000000	6.0161843	6.1334690	4.7929646	4.8961604
## 120	3.6473721	0.0000000	2.9855733	5.5230193	2.1571084	1.2208252
## 121	0.0000000	0.9306995	7.5451382	2.6864333	6.3673483	4.1509495
## 122	6.2434235	1.6275135	3.9003452	4.9841609	4.7238916	2.0477827

## 123	3.5926962	0.0000000	4.4632497	6.5012305	3.6756353	2.6676197
## 124	4.8936874	6.0619835	1.1534162	11.2750747	1.1534162	5.0899176
## 125	4.5078010	7.2834190	5.6853964	5.7882968	6.5836680	3.7020369
## 126	1.4261037	0.0000000	1.1797658	7.5437688	3.1030779	2.3835246
## 127	0.4390380	0.0000000	1.2765562	6.9465402	0.0000000	2.4914683
## 128	0.0000000	0.0000000	6.4055006	4.4414104	7.7532402	3.1795907
## 129	0.0000000	0.8786861	0.8786861	3.2306027	0.5051796	3.2936648
## 130	5.0388839	1.1647219	1.4091465	2.2404975	0.4997821	5.0747666
## 131	0.0000000	0.0000000	2.5840966	2.5840966	5.4180516	5.5666751
## 132	0.0000000	6.8459203	7.3088741	6.7025620	4.6148983	3.0702519
## 133	0.0000000	3.5841568	3.4350285	5.2443619	6.0047620	4.4468385
## 134	4.6470094	5.2363855	6.8937566	9.7432669	6.9333507	3.8910983
## 135	0.0000000	6.1867283	7.4583664	8.0305060	8.3391245	6.7751757
## 136	6.8772338	1.4383461	4.9508090	4.0348496	6.2606543	3.4932374
## 137	0.0000000	0.0000000	11.2249103	6.8947838	11.3039582	7.8008274
## 138	0.3650206	0.0000000	4.0735204	3.7107569	4.1689789	10.3906972
## 139	3.4019171	6.9739591	3.2739485	7.4467351	6.1674884	1.4825385
## 140	4.1187584	0.5056877	4.2833218	4.7338261	2.5940230	1.9777195
## 141	1.9328171	0.0000000	5.9679571	2.2088918	4.0618194	9.1318156
## 142	0.0000000	6.9429519	7.6768598	6.0335419	6.0714366	5.6684879
## 143	0.0000000	0.0000000	6.3474105	9.3880408	2.4135399	8.7975435
## 144	0.0000000	0.0000000	4.2496046	6.5655180	3.7671781	6.2525178
## 145	2.4885921	0.0000000	9.5489263	4.0501882	5.3395864	9.1607443
## 146	5.7960422	0.0000000	7.2478117	7.9755935	8.3065913	3.5629628
## 147	5.0299034	0.0000000	2.7843783	3.0637963	0.7959331	3.6756805
## 148	4.3368332	0.0000000	10.3679915	1.1378314	4.6786241	9.7124156
## 149	2.7187452	0.0000000	3.9556569	6.2862306	3.4658831	0.0000000
## 150	4.6674778	0.0000000	3.7481070	2.8048796	2.3633393	9.7444100
## 151	0.0000000	0.0000000	5.3490149	7.9595302	4.9127552	4.8380845
## 152	0.5010060	0.5010060	4.4434807	1.8036404	0.5010060	4.2045164
## 153	0.0000000	1.1058122	6.5944187	1.1058122	8.1539137	8.3139478
## 154	6.3897681	0.7119354	8.2420041	3.1658316	6.3065156	10.6124938

## 155	0.0000000	0.0000000	3.5711671	6.8113130	4.7760039	1.7863036	
## 156	2.4550181	4.9947698	4.1648265	5.6951448	4.4866951	7.5376610	
##	rs_PCDHA11	rs_RET	rs_ANKRD43	rs_WT1	rs_KCNF1	rs_CCL18	rs_CHI3L2
## 1	6.8675481	11.166764	9.4039692	5.9701657	7.9352334	3.5496815	6.394211
## 2	5.2199661	9.390036	6.8470473	5.0188255	2.5096958	2.4151637	8.232453
## 3	6.1304985	9.682090	4.6729062	2.2197106	6.3611911	5.7263762	6.116951
## 4	7.9019077	15.360428	3.5719923	1.5931625	4.0990595	4.4040516	5.369568
## 5	6.7183986	9.921985	7.6908780	5.1645168	8.3036721	3.2203454	6.531715
## 6	5.1917916	4.778855	2.2112303	2.6291701	4.1792085	6.4009853	12.112058
## 7	6.6231953	7.621408	5.1425441	5.7400884	3.3583541	9.5015825	11.409929
## 8	6.2198578	8.245694	4.7024858	4.3556647	6.0296958	9.6854395	12.490507
## 9	0.0000000	4.374539	4.3379465	2.8549133	5.0536327	2.5048492	8.267034
## 10	1.6614760	7.206227	5.8073807	3.4835449	4.7804151	6.9966836	6.488909
## 11	4.1487714	12.061033	9.3317209	3.2777765	4.5075663	3.1746301	5.580097
## 12	3.1850578	9.192629	9.3269141	1.5125809	1.3118518	6.1805955	7.117694
## 13	7.1377320	6.929772	3.9361291	6.1244646	2.2302645	7.8905598	9.613380
## 14	4.0422854	6.210551	6.6369943	6.8192888	4.7262427	3.1767855	7.724212
## 15	6.0321692	12.204211	3.8656714	2.1931409	1.9480027	1.9480027	11.360472
## 16	0.0000000	6.885241	7.2381840	1.5088850	7.3485078	3.9359783	10.035423
## 17	6.6279176	8.400694	7.7541052	3.3501153	5.7120840	5.5282744	2.373119
## 18	2.3571860	10.132888	9.7400215	2.5762077	4.7323940	2.9768952	9.453035
## 19	2.6142622	5.085369	2.4814023	0.3634515	6.2654707	3.4631647	9.319890
## 20	7.3655981	11.557363	3.9950050	4.8943230	6.3277179	6.8646047	3.350030
## 21	3.8242791	11.580564	7.6810100	4.7016988	3.3621332	7.6638854	7.977476
## 22	2.6355687	4.773949	2.4674099	7.2879137	5.5585279	7.5257432	8.739027
## 23	0.5566992	6.437918	3.9631782	3.5057639	6.4765729	4.3437986	3.011317
## 24	1.4624188	3.303167	2.5372961	4.6238376	2.1132337	7.6952039	9.222053
## 25	6.7901139	10.311417	3.0167281	1.9641398	7.1255953	2.5450788	10.146384
## 26	1.9740520	7.625638	4.8290072	0.3405053	0.6158871	5.0067872	4.562609
## 27	5.8814664	9.681768	4.8388711	2.7525131	1.0538064	5.4841059	8.824308
## 28	2.3839669	11.128325	7.8442871	5.8423026	7.0121541	10.1596164	7.157465
## 29	7.4489777	11.873209	5.1438301	1.8922744	9.1277744	3.4913529	7.339179

## 30	6.1236765	9.604666	6.0925986	4.5644879	4.8324546	7.0378039	8.907618
## 31	2.7716532	7.964224	3.8589060	0.8437427	9.7321600	5.8234055	6.693649
## 32	4.4446273	10.902097	9.2227737	4.8082563	10.1547515	5.4297934	7.841854
## 33	5.7719252	9.452468	8.9193815	1.0445340	3.0770550	3.1933617	8.260699
## 34	4.0366440	8.342320	7.2316964	5.1709786	6.3025658	2.5400521	6.114808
## 35	6.8218786	9.372669	6.7818541	8.0388268	3.2900705	6.9704557	8.488701
## 36	4.1064321	6.609906	3.6979183	4.5387616	5.5865786	9.7793370	11.079327
## 37	7.0213309	8.792892	3.9265498	3.5022669	4.5206988	4.4655436	9.515604
## 38	6.7153649	7.608094	2.9544569	8.1091526	4.5021269	5.7593529	6.926967
## 39	5.6243992	4.600062	7.1390796	4.7950552	2.1730635	8.6159768	7.031916
## 40	6.2066198	4.492859	4.0368813	5.8215980	2.0742657	8.2425196	11.542246
## 41	8.2125197	3.749599	2.2029192	6.9218017	3.2507797	7.2699598	12.189099
## 42	0.8127857	8.412378	3.8563185	7.1479762	3.0858835	10.1041268	5.769740
## 43	7.0043598	5.142781	0.0000000	6.1586884	7.9147032	3.9738317	11.964536
## 44	2.4296963	5.463636	8.6111373	8.5784852	1.1699891	1.6725159	5.119049
## 45	7.6181006	10.540170	4.4585001	1.9739051	6.8418977	6.6589084	7.327238
## 46	7.1266374	11.267015	3.1142504	3.2309408	7.9345165	1.0663992	10.334331
## 47	4.2016495	4.754759	8.9616858	4.9366474	3.4562542	5.2318164	7.442231
## 48	7.3814054	11.949171	8.6755556	4.2410775	9.6021365	9.3667685	8.304504
## 49	6.6296218	12.151733	4.9757677	4.7501348	6.7480855	6.7557088	9.572228
## 50	8.2192920	8.266548	10.8040821	6.7964135	8.9402155	4.0962956	8.568999
## 51	2.9907189	4.474397	4.1009524	4.6845270	3.7733951	7.2096629	11.920294
## 52	7.5480543	10.881695	3.7816115	0.6147570	3.7816115	7.6127918	6.487605
## 53	9.1416795	11.277507	4.9322691	6.3468470	5.2003396	5.2131606	5.187408
## 54	4.0117461	9.577626	5.9546616	6.5646602	6.0734240	5.7320195	7.761905
## 55	4.0447351	10.449291	9.8392460	2.5286713	2.7365832	1.4796962	8.894682
## 56	7.0663346	2.743235	0.4924172	1.6013162	2.7432349	7.8710822	12.375322
## 57	5.5524970	11.085218	8.7080551	3.2184557	3.5651585	6.5849505	8.599391
## 58	7.5389509	8.471546	8.6729323	4.1157824	4.9887756	7.2376010	7.708853
## 59	2.6555808	7.366631	2.8448878	6.1274785	3.8331330	8.7543878	11.592836
## 60	1.3885753	9.099353	5.4377504	0.3444877	6.8996663	5.1723955	4.886979
## 61	8.2026641	9.102588	8.2441930	0.3832757	2.3952822	4.4189388	5.466526

## 62	7.4384259	11.829448	4.8963300	0.0000000	0.3748447	4.9935929	4.966467
## 63	8.1288404	13.390545	2.2603870	1.9923334	4.0387610	1.3922075	5.321759
## 64	1.8000819	7.761353	8.2472383	7.1547948	6.8426948	6.1312170	9.077078
## 65	0.6294732	2.277538	2.9255248	7.3911267	5.7563508	8.8508879	13.659034
## 66	5.2905387	12.405566	5.0109409	11.3331360	9.3600023	4.2337577	4.448181
## 67	7.0734186	7.821137	4.0597965	5.1574399	3.5858399	6.8506194	9.858942
## 68	4.2806594	6.893465	4.1785394	2.6525783	11.8200707	3.6085609	7.335413
## 69	5.3638334	10.090705	9.3035244	1.7068620	5.7178245	6.6201934	8.396822
## 70	6.0089081	6.841722	4.9847944	2.5419113	5.0612275	4.7647655	3.265077
## 71	8.8755648	10.919801	4.6961497	4.2035066	7.0612794	3.6402623	4.658846
## 72	0.0000000	3.543818	8.8711370	2.2654669	1.8740887	5.1559718	5.841961
## 73	3.6899365	5.936937	2.2818466	7.7061783	2.2033578	10.8641803	8.794275
## 74	1.9175463	9.190289	9.7894427	1.9666889	2.8294843	0.9050428	3.519944
## 75	6.5594046	8.274128	5.8693853	2.7472370	3.8089925	10.1552801	9.199633
## 76	8.6384146	7.039779	4.1685377	10.6163900	5.2897164	6.4056776	5.656456
## 77	2.3458221	7.139760	4.7801316	0.0000000	0.5937840	7.7020348	7.572961
## 78	6.1700733	3.549608	2.3265661	4.4649492	5.5499802	1.0028825	12.718882
## 79	3.1091767	3.995349	4.4681923	0.5997939	3.6252939	12.5749519	9.099144
## 80	7.9958819	5.215411	0.8579014	5.1343072	5.9335679	4.7975422	10.098237
## 81	5.7200677	6.374464	5.8959763	2.5555708	2.8763107	9.4685273	9.048198
## 82	2.5735927	9.497051	4.4662747	0.5350576	4.4366682	7.8026592	8.566386
## 83	5.5275927	10.280654	7.0660580	5.9431149	1.5151069	1.5151069	7.704541
## 84	5.9462770	10.201193	7.2741302	4.0360373	6.9076130	6.7625056	7.242141
## 85	3.9868478	3.592756	1.5540485	5.2918356	3.2170446	4.0436070	9.072756
## 86	6.2829976	12.059609	3.6670519	0.0000000	11.8792681	3.9713688	4.998985
## 87	7.6542028	10.351330	5.7778536	4.5324042	6.1971734	5.1711147	6.137473
## 88	8.1340946	10.286429	2.1626612	3.8981696	2.4517782	7.4583115	7.024148
## 89	6.3605012	7.928816	3.3378110	7.0246510	6.4245006	4.6919417	9.929279
## 90	2.0579008	12.586328	2.8236271	2.7710615	3.1042192	0.5912964	1.333366
## 91	2.8607443	8.811180	7.5695260	6.4497413	4.4220580	10.3056183	3.316696
## 92	7.5196127	10.368042	9.0135999	4.0746168	5.9190921	7.2395470	4.435229
## 93	1.1959775	10.253637	4.4820028	3.3905989	5.9140119	5.5042390	3.343223

## 94	4.8569807	10.664758	6.9058226	1.4431823	8.1632642	5.8369466	5.268127
## 95	2.1798932	7.477766	4.3452828	6.1910098	8.0420062	3.9917712	4.906390
## 96	7.1218692	8.640939	6.7802904	3.8307624	5.0138463	7.1328359	5.127402
## 97	0.6763577	7.184258	1.1350094	7.5675470	2.3747891	9.9176825	11.972600
## 98	1.0261627	8.723019	8.4195220	2.4573579	5.7233237	3.7108340	5.563851
## 99	6.6838789	7.916272	4.7580153	2.5277710	4.6342506	6.0545099	3.260071
## 100	1.5681294	7.517880	3.2991860	1.5681294	8.2671139	3.0651759	10.896565
## 101	0.0000000	13.383616	8.9802287	10.3234648	0.8320393	7.5545589	6.978396
## 102	8.6904311	12.708006	4.7970130	9.8829487	12.6436308	1.3785116	1.765535
## 103	6.3033059	10.787065	5.0191948	1.8469546	8.9671700	5.9731107	8.176481
## 104	7.6730073	10.329677	7.4578257	9.0212898	5.5904134	3.5642074	10.949537
## 105	1.2659769	7.325099	4.6120812	2.1326755	5.4368448	1.4290535	1.871804
## 106	5.4420179	12.550273	4.6475678	3.1396496	5.5906978	2.8580805	6.078262
## 107	5.1133713	8.260838	6.1754707	3.4764854	3.4288124	2.9093123	10.063123
## 108	1.2933116	11.372706	2.8265180	3.6889636	6.6177554	4.0591130	7.482804
## 109	4.4263453	8.045929	1.2243490	4.7220616	6.0256866	10.2508994	8.375016
## 110	8.4700601	10.457575	5.5414994	4.0847531	5.4009068	5.4456439	5.531157
## 111	3.9029804	7.128865	8.7297587	3.5197306	5.4221724	8.2538536	4.180466
## 112	7.2934450	8.127545	4.2725906	1.8070251	6.4603510	2.6814493	6.947920
## 113	0.9656919	10.906119	6.4235983	4.0249845	2.0761144	9.2017733	6.754302
## 114	1.9530417	9.727787	9.2127301	2.9979066	8.5725127	3.1133504	5.670070
## 115	7.2109070	5.580257	1.7664680	5.5248786	2.9271759	8.8967668	6.440954
## 116	5.2032795	9.171722	6.6656514	6.2918595	6.9005360	6.7113008	6.954683
## 117	8.0784823	11.239387	3.5868728	1.4402081	1.7857598	3.1024398	3.672459
## 118	1.1163648	10.710443	5.4420643	3.9416698	4.7673158	10.8551355	5.218293
## 119	5.4813474	10.388958	10.6391007	5.7111838	5.5932821	5.0972484	8.799876
## 120	0.5490284	11.271067	5.6199030	0.0000000	1.7636240	0.0000000	5.257908
## 121	7.8846498	9.357965	3.0443417	2.7845668	6.9304854	6.7898740	5.415674
## 122	8.3747922	12.571737	5.3096710	6.0472897	5.4656317	2.7165081	8.901393
## 123	7.1053879	7.905563	4.7767409	4.0310069	5.7015352	4.1517939	5.740582
## 124	6.5394721	8.495708	7.9399723	0.0000000	0.3852654	7.1876599	8.416500
## 125	5.5377465	9.735424	8.8947268	3.1390438	9.2271779	8.8720934	5.864649

## 126	4.8415002	12.943428	4.2261925	0.0000000	0.0000000	7.1740718	4.089896
## 127	0.0000000	11.118129	2.5799283	1.0475384	0.7750927	6.7412485	6.825092
## 128	9.3655976	11.117980	6.2667603	4.1454085	7.7704617	4.7955696	7.920281
## 129	0.5051796	9.254338	11.1977298	1.4207788	3.2936648	1.9764736	1.813935
## 130	0.0000000	8.670653	5.0206000	4.8025448	3.7461515	6.9292395	3.606051
## 131	7.6009848	1.279531	0.7771988	0.0000000	2.4955673	8.4276322	3.791606
## 132	8.2479911	9.069375	9.5331681	6.5897440	4.0590783	1.8525982	6.659731
## 133	5.1225029	7.260554	6.7573553	5.6573542	3.8428783	6.6598932	7.002348
## 134	7.9126553	9.849157	4.6647445	3.8313807	2.2046416	3.7039755	9.676956
## 135	2.7199500	9.919748	7.3570866	6.5536354	5.5873770	3.4710183	9.402233
## 136	7.7115376	10.608713	3.9172981	3.1895241	7.2267156	5.5335166	6.889615
## 137	4.9272233	10.802528	2.9359688	2.9359688	7.4310262	4.4599824	5.211962
## 138	1.7661287	6.610970	4.0486285	0.6561760	4.5520696	4.1457019	9.863133
## 139	4.2977563	7.129957	6.8220864	8.4781176	7.9368582	11.7943361	4.474670
## 140	8.6482738	11.323456	3.4135670	2.4900566	1.6318493	7.9966605	2.378012
## 141	3.0444641	4.846884	5.2795530	5.8009103	2.3293533	6.8293600	8.525726
## 142	5.6189874	8.469884	3.5185729	10.6369569	7.5457012	5.1646174	9.678331
## 143	7.9374003	4.809877	1.2884176	6.5386390	6.8450672	5.0950847	9.388817
## 144	0.0000000	10.309309	4.4110737	10.8659536	9.1411888	5.6208532	6.781800
## 145	0.0000000	4.075079	2.8183598	2.8183598	4.2816315	10.9234712	10.657327
## 146	7.6634898	7.878006	3.5629628	1.5268200	8.9330134	3.7256866	6.592225
## 147	7.1851658	10.598996	9.4834625	1.8385888	9.9620446	4.9796230	9.592034
## 148	0.0000000	4.609365	3.9454017	0.0000000	2.0004327	5.1380649	5.766102
## 149	7.3800004	11.226016	3.9206268	11.6500661	8.4159961	3.7713257	7.064735
## 150	2.6408985	4.441470	5.3107691	1.7238206	2.0787123	3.9334877	7.394069
## 151	3.4621309	9.979265	9.2077326	0.8153295	2.1843755	6.1882268	7.490129
## 152	0.0000000	12.112531	8.1098406	4.3873419	9.3947759	6.2971034	3.280719
## 153	6.3292079	13.331915	5.7342327	2.9842430	4.6984408	1.1058122	9.222668
## 154	3.4867787	7.687227	3.5268576	2.6831574	4.6577772	6.3180981	8.946918
## 155	1.7828698	10.600128	8.3436459	9.2314170	9.5204873	6.0031030	3.503540
## 156	5.2229861	6.154547	4.1241958	9.0580053	9.1757616	4.6386705	7.441714
##	rs_NTNG1	rs_SLC6A15	rs_MKRN3	rs_ZNF385B	rs_CLDN8	rs_FAM83A	rs_SHISA2

## 1	1.4402081	1.4402081	0.5144000	7.4506496	6.7789248	5.4257144	8.727357
## 2	2.5096958	2.6819664	1.6630713	5.1121663	8.6545032	6.3235934	9.464201
## 3	1.5002922	1.6757256	0.7921057	3.4908653	6.7025883	6.6137733	10.255068
## 4	0.0000000	0.4889263	0.8535167	5.7616204	4.5602258	4.3191265	3.755561
## 5	1.5757964	0.8418926	1.5757964	6.7115431	6.6559457	2.8756032	13.040313
## 6	2.7453234	4.5741984	3.8039296	4.2199352	9.0499727	5.3369653	5.681202
## 7	2.7623063	0.0000000	5.1737071	5.4907145	6.5237862	4.5933060	7.355315
## 8	3.8981503	7.6631062	1.0308304	4.4273648	2.8598106	1.2575538	5.674514
## 9	4.3003947	0.6035967	0.0000000	1.6220870	6.9375115	9.7045175	8.630726
## 10	1.3948982	0.0000000	0.0000000	2.8300930	4.9798470	1.7842946	12.310219
## 11	1.4183519	1.2253983	2.7414670	2.3261634	5.0783921	8.9720349	7.615067
## 12	2.4456473	1.0785415	1.3118518	8.0733217	3.9149950	1.0785415	7.102210
## 13	2.2302645	8.8035790	7.4164986	1.9142201	6.4403360	0.0000000	5.984254
## 14	1.8800977	3.3762070	5.0224255	7.0629398	9.0548243	3.4664444	8.706980
## 15	10.8776541	0.4407396	0.7778720	7.2794211	3.4124022	4.6608716	9.399234
## 16	5.8170118	0.5474498	0.0000000	10.8162081	7.1658456	3.2880484	11.891007
## 17	0.0000000	3.3501153	1.9732072	5.2870105	7.1654949	6.0851187	11.540131
## 18	3.2901295	0.4665488	3.1104468	5.0308437	7.8097212	6.3157111	9.359696
## 19	10.7519310	1.1017173	2.4814023	11.0733560	7.8910856	3.1735752	11.926843
## 20	1.4459385	2.2437300	0.8970080	7.6367479	1.4459385	10.2983224	11.020197
## 21	5.1418129	0.0000000	4.4318369	5.6507129	7.2814729	9.9037562	10.668778
## 22	2.6677105	9.0848347	6.5303408	2.2347466	5.7583591	6.9654415	9.498660
## 23	3.0931883	0.0000000	1.2705887	1.9355352	4.7494055	5.7604286	7.038148
## 24	2.8646319	6.0374503	0.0000000	3.3031670	7.5689024	4.5346219	5.035056
## 25	10.3695330	0.4031586	0.0000000	12.0097740	5.4342145	2.4630731	9.920232
## 26	0.3405053	0.3405053	3.7844935	2.4662878	3.2907488	9.8675813	5.953512
## 27	2.5901229	2.8984406	2.1974880	5.2861456	10.0881494	1.4820222	12.653814
## 28	1.9640659	0.0000000	5.5549081	4.9076358	6.6567309	2.5787214	12.450828
## 29	0.3800645	1.4895943	0.3800645	5.0680946	5.9156954	2.6835617	9.822848
## 30	2.4483988	1.3138263	2.3467016	6.7891306	8.7584261	4.8878128	7.699944
## 31	0.4826418	2.7990873	1.9188823	8.8339729	6.0305082	6.2497430	13.253703
## 32	1.4617381	2.0558551	4.8262129	4.1853116	4.3432799	2.8001026	6.740994

## 33	6.2430445	3.3009730	0.7727302	8.4003488	8.3495511	3.0151942	7.787764
## 34	2.5400521	2.1707583	0.0000000	8.7674019	8.0641365	3.0009555	12.172884
## 35	7.1372279	0.0000000	5.3008303	9.1482490	8.5278433	10.6857793	8.727847
## 36	4.9515552	1.4388251	5.9581444	4.1787545	8.0930557	4.1442667	8.403029
## 37	4.6250542	3.9265498	0.0000000	2.9795864	6.3788809	0.0000000	8.390089
## 38	3.8582596	0.0000000	0.8827604	1.9309644	7.3638877	3.2810454	6.508094
## 39	2.5425057	1.2117598	5.0834049	8.0092979	5.7803993	3.2890229	5.473592
## 40	3.0116566	8.8084320	6.6517750	4.2466589	8.5287920	3.8883634	7.585508
## 41	0.7270927	7.7631951	6.7435931	3.7843260	8.5862678	5.8904783	7.005118
## 42	3.4246534	0.8066128	5.1326920	5.1172088	8.5134288	9.4777469	7.877042
## 43	1.6911768	6.7186986	6.1405680	1.6911768	7.3629976	5.7915901	4.200646
## 44	1.5236121	5.9085031	0.3923174	10.6193009	9.8004059	3.2855058	9.138384
## 45	1.5617905	1.5617905	1.3010608	8.3423970	6.5046188	2.9694913	7.901862
## 46	8.1142681	2.3253864	0.7903550	3.4393173	5.0326122	5.5754787	9.426584
## 47	3.9267585	0.6822137	1.6397415	4.6716387	7.7942820	0.3810618	11.822539
## 48	1.9592879	1.4505910	4.0019193	4.0019193	7.9541085	6.8249066	13.904636
## 49	3.5975073	0.0000000	0.0000000	10.5030016	4.4263386	5.9919163	5.699554
## 50	6.6234045	2.3749282	0.7173858	4.8907288	4.5574162	3.2287110	9.980741
## 51	6.7477083	1.1810389	6.4301933	2.8752099	7.1910138	2.9362139	4.153270
## 52	0.3399355	1.2193389	4.6989630	6.5584498	6.1417352	5.3046133	6.701574
## 53	3.9174222	2.2046103	0.0000000	3.3015438	6.3233917	5.0077830	5.977692
## 54	7.2424243	0.0000000	4.0844470	3.8910205	0.0000000	9.2713232	10.590025
## 55	2.5286713	2.5286713	4.8740297	10.9630619	5.7804518	0.6747318	6.531888
## 56	0.0000000	3.1916732	6.0464387	2.3415019	9.5412920	3.1259651	4.415603
## 57	3.2733816	2.6821687	1.2897755	8.0223134	8.8793961	6.2975748	7.859079
## 58	7.8537431	4.0888794	2.0715224	7.2345358	7.9707381	3.3631290	12.205986
## 59	2.2715751	9.3574713	6.7177079	6.5734851	4.9831213	2.7214820	6.145596
## 60	1.5300208	1.0557510	5.9841769	1.8863941	2.7935838	7.4707589	10.650966
## 61	0.6858953	1.9026911	6.8045363	6.8547176	6.8995382	0.9358369	9.106576
## 62	3.4318369	0.6721085	0.0000000	3.1234344	3.8130526	1.3124328	12.044742
## 63	4.3573901	1.0588014	3.1461990	6.9878029	4.7974955	6.1797379	6.298656
## 64	0.4994760	3.0060287	1.4086575	3.9524081	6.2614123	3.7892911	8.137058

## 65	2.1039004	7.2857804	6.6978127	4.2793227	3.4088885	4.9266542	5.534737
## 66	1.6746866	0.0000000	0.0000000	8.9996052	5.7224278	7.1842109	8.841379
## 67	2.9394335	3.2738739	1.5855875	7.6615472	10.1103566	4.8082821	8.025174
## 68	3.7486866	2.1445685	0.0000000	6.2764725	6.6737218	4.7781770	10.251574
## 69	7.7752527	4.1503322	2.9622714	7.9883654	8.4510392	3.0828388	10.971232
## 70	7.4397669	1.6169693	2.8483575	4.5900331	5.0158543	8.7879616	10.214688
## 71	0.5271704	1.2161755	0.0000000	5.3855277	2.5489791	6.2351009	7.729910
## 72	1.8740887	1.8740887	0.4655044	3.6786353	6.1198811	1.8740887	12.599596
## 73	2.7367564	7.8305399	5.1290480	4.9117491	0.8258670	0.3305584	6.081105
## 74	3.9582209	1.2953116	0.3683772	1.7341785	4.8099597	1.4569113	6.916920
## 75	2.3581149	2.6773504	0.7092024	7.6646592	8.9922416	5.9967751	7.489689
## 76	1.0923428	0.8113066	0.0000000	9.5052733	5.1586723	6.8308739	2.364937
## 77	2.7226409	5.1339786	0.0000000	5.3831236	3.7791651	3.8317050	5.133979
## 78	2.2269400	4.0643310	3.0639861	2.4197276	8.7449868	2.3265661	6.742693
## 79	2.6216651	3.4321310	0.5997939	5.1924704	3.2090478	2.6216651	4.656885
## 80	2.2190601	6.5611657	5.4071454	1.7812758	8.4015558	4.7975422	5.980731
## 81	4.1760355	0.9824369	0.5732776	5.8107644	7.6266071	3.0563234	9.260478
## 82	3.2527335	3.2527335	1.4834160	5.2064401	10.2003745	2.7734478	6.424040
## 83	6.2603456	3.2869255	0.0000000	7.0887437	6.5613735	1.6432559	9.701647
## 84	3.3784423	0.8345494	5.8029764	3.1849150	6.3928103	4.7745657	8.867456
## 85	1.0748479	5.5606049	6.6875465	3.3403629	4.8271026	9.6975276	7.349634
## 86	0.0000000	0.0000000	1.3819478	6.5393868	6.5464871	4.7137453	8.394356
## 87	2.1059127	2.1059127	4.6698602	8.3199990	4.4255332	1.9906645	11.578453
## 88	2.1626612	0.0000000	0.0000000	2.5771750	1.3163196	5.2762957	4.718926
## 89	0.4998841	0.0000000	1.6185206	1.9630672	5.0211777	2.8503594	4.201093
## 90	1.0094905	0.3257318	4.9009730	3.1868016	4.5417131	8.7468455	3.374678
## 91	3.4645899	0.4421208	0.0000000	6.7383990	5.7178519	7.9056596	8.529785
## 92	3.4420677	0.0000000	6.1370526	7.8402738	0.3774014	6.6042478	7.111248
## 93	8.0160104	7.4801997	0.0000000	3.6847514	5.9301365	5.5361928	5.821958
## 94	2.8108955	3.7663195	4.0420139	8.1414706	6.3439265	5.9280244	10.308720
## 95	0.8705028	0.6343145	0.8705028	3.7467535	7.2163501	2.9309644	11.996103
## 96	0.5270703	0.0000000	1.2159270	2.7511638	4.7791494	1.4667054	9.480755

## 97	0.6763577	11.4883471	6.7476465	3.0315716	5.0045239	2.8034130	3.883230
## 98	1.6197886	1.2522945	5.7327278	1.2522945	5.9336765	5.0947470	6.483153
## 99	0.9659874	0.0000000	6.3525855	0.9659874	0.3981314	10.0190696	12.294244
## 100	1.9810854	0.9873936	2.4387719	10.4166357	6.8757911	2.4387719	6.661459
## 101	0.6042611	0.6042611	5.2843439	5.4986753	1.8483175	9.0554975	3.637309
## 102	0.4854268	4.7333543	0.0000000	6.1977082	4.5728897	1.1375035	10.708222
## 103	7.1395514	0.0000000	0.0000000	6.6091551	0.0000000	4.2616662	9.955952
## 104	9.5664862	0.4716557	0.0000000	4.0417161	2.0334759	7.2968327	8.677339
## 105	0.0000000	0.0000000	0.0000000	0.9761436	0.3124328	4.6403375	8.867919
## 106	2.5078961	2.1498447	0.0000000	11.0917133	6.1812636	8.2866700	7.962647
## 107	1.0603241	0.0000000	0.0000000	10.2700443	6.2181651	2.6841904	9.059588
## 108	1.2933116	6.5389106	4.6487013	2.7662559	3.6889636	7.7236514	7.985548
## 109	3.5474005	4.3008778	1.6903724	3.0998338	6.6551858	2.4475263	6.603248
## 110	2.9361008	0.4143521	5.3070459	2.2201132	1.2207633	7.7273181	6.908033
## 111	1.9468431	0.0000000	0.3975839	2.6765834	7.7597950	2.0609466	8.232707
## 112	1.4147309	3.4590250	0.8742855	2.8575830	7.0958284	3.1561053	10.130120
## 113	2.2075181	0.0000000	5.7133549	4.6041484	3.3572846	7.6841476	10.016783
## 114	1.5833747	0.4144603	0.0000000	4.0274903	6.9976165	2.4130795	12.172420
## 115	0.6786128	0.0000000	0.6786128	5.4275794	8.4632309	3.6335010	7.620459
## 116	1.5647196	0.0000000	3.3417581	3.5965297	5.3395258	2.0921059	11.409215
## 117	1.8847151	1.1531568	0.5749250	4.8036300	6.7545762	4.3110235	10.417802
## 118	2.5842169	2.4255399	5.5990291	4.6284937	4.1076795	9.5779443	7.011730
## 119	8.5259142	1.0199154	0.0000000	6.6538353	5.3961252	2.9086592	5.572659
## 120	0.6156988	0.0000000	0.3405053	5.7891711	7.5098668	0.3405053	4.920231
## 121	3.5697949	2.0606354	6.7171815	3.3308595	7.1256697	7.1942279	6.600775
## 122	1.7816115	0.7626465	0.4311415	6.5966847	3.9979246	4.8856134	7.583984
## 123	8.3929515	1.2795902	6.7463410	3.7917203	6.8570877	1.0501882	6.141584
## 124	9.5489893	0.3852654	4.6542751	5.8019424	7.0742689	2.3159140	4.545023
## 125	1.3795655	0.0000000	1.2640560	2.9649900	2.3798982	3.9464782	8.792891
## 126	3.1030779	0.8825257	7.6199903	2.3835246	5.6539629	2.2619219	3.103078
## 127	0.0000000	1.4742024	4.6746810	3.1984942	5.3641697	6.3017230	6.983502
## 128	1.1053428	5.2853763	0.0000000	6.9055880	2.9834953	7.4454263	6.909048

## 129	1.4207788	0.5051796	4.9630949	7.1272061	6.0351180	6.2250107	8.278293
## 130	1.1647219	0.0000000	0.0000000	5.1607508	9.4727122	4.9450645	5.226031
## 131	0.0000000	0.0000000	0.4403144	3.3616420	0.0000000	3.1459220	8.985017
## 132	2.4202129	4.9353042	2.9124008	7.1276663	8.0556317	2.9934751	9.683535
## 133	4.3107545	0.0000000	4.3667349	4.3667349	7.4343530	9.8025645	9.657209
## 134	1.7682479	1.1396005	0.6795139	3.8005686	5.6095984	5.7851189	10.808764
## 135	7.7086921	1.3383388	3.7255994	7.0725164	3.2570257	4.5621264	11.022705
## 136	0.0000000	1.1906781	0.0000000	2.3992531	5.8861721	6.3003251	6.177878
## 137	1.7870145	1.0359054	0.4330663	3.6093413	5.0073076	6.2859718	6.789127
## 138	2.4872291	0.3650206	0.0000000	1.1054769	5.8725111	1.9558335	11.861189
## 139	2.6742799	0.6763577	5.2735979	6.6693812	7.3835427	3.6962832	5.995568
## 140	2.7818633	0.0000000	5.4944348	4.1187584	6.7042440	6.3356565	4.431014
## 141	3.0437644	0.0000000	6.2224858	3.5691994	8.0415491	5.0707628	7.132284
## 142	1.2598449	4.5646281	5.5660297	3.6842689	6.4099238	7.9143205	6.955166
## 143	2.3124328	1.8174595	8.0635159	7.6573799	9.1893672	9.3008097	8.254513
## 144	5.8295553	0.0000000	1.2337040	3.3235142	0.0000000	1.7016821	5.659945
## 145	1.2876496	10.2091628	0.8990209	5.1766659	6.2740920	4.1705500	6.407451
## 146	0.5562087	1.2696915	0.0000000	8.8978796	3.8247984	2.3877210	12.896288
## 147	1.3058538	0.7959331	0.0000000	1.8385888	4.5288963	3.9748505	10.020476
## 148	1.1378314	2.8078495	5.6842633	1.4857875	7.1503200	3.9454017	4.202183
## 149	6.4609735	0.0000000	0.0000000	10.3993697	6.7171980	4.1190822	5.547826
## 150	0.0000000	0.5465611	3.6456325	0.9420077	9.9404242	1.7238206	11.786683
## 151	1.0092755	1.7132999	0.5912007	9.0704113	7.8145139	1.3330802	11.611008
## 152	0.0000000	0.5010060	2.4768483	3.3989933	0.0000000	2.6774180	12.998633
## 153	4.2517872	1.3426685	5.2862195	8.7813013	7.1374871	10.2158801	6.351432
## 154	7.0420040	7.3990266	6.1725755	3.7138278	6.8115198	1.9526318	5.364271
## 155	1.6677559	0.3472121	0.6269530	5.9341437	3.7275502	0.0000000	11.698425
## 156	3.4545181	0.0000000	1.5813512	9.8909380	6.4703937	1.3186928	9.444788
##	rs_MYEOV	rs_SBSN	rs_ABCC12	rs_NOVA1	rs_SOX11	rs_FUT6	rs_SCRG1
## 1	4.2473959	0.5144000	4.8715776	5.9897498	8.1397191	6.4867063	1.4402081
## 2	3.1016837	0.4448791	5.2139421	6.7535671	7.4577740	2.0875986	1.9594734
## 3	7.7892748	0.7921057	1.0686020	7.2829262	4.6520677	0.7921057	4.4971077

## 4	6.0695819	0.0000000	2.2112926	4.9473763	5.8449907	10.4467262	1.5931625
## 5	1.3700527	0.4815056	2.6207272	7.2285292	5.8193489	0.8418926	1.1300083
## 6	2.8528179	6.9653537	0.6028369	4.4079101	8.6857594	5.8201253	4.7232800
## 7	5.3748169	4.5933060	0.8248086	5.1737071	7.9441305	2.8420737	7.1315586
## 8	2.5529426	5.1885987	0.0000000	2.9918075	8.5540466	4.4038608	9.4221462
## 9	1.0279325	3.8587966	5.6689304	2.3663642	9.1413653	3.3718237	7.6953021
## 10	3.4835449	1.9455702	0.0000000	7.6774202	5.1714350	0.4930324	0.8598106
## 11	5.1344304	1.0026665	7.4537299	5.9280434	3.6678467	4.8124674	0.7390704
## 12	5.8226460	0.4548076	3.1347959	5.3715693	1.8457911	1.5125809	1.0785415
## 13	6.8740986	5.8171755	0.0000000	3.4794246	10.8488683	2.4893374	5.3301747
## 14	1.8800977	1.2268168	1.2268168	6.5774893	4.9923651	1.5900990	4.2552363
## 15	2.4026130	1.2804813	3.0880228	9.6812541	4.9381023	9.2556716	2.6689133
## 16	0.9432837	0.5474498	0.9432837	8.8329118	6.1804562	0.5474498	0.0000000
## 17	5.8333987	6.5191503	2.7766936	7.5853644	4.5592042	3.4080868	1.6277469
## 18	7.5107001	1.8768803	2.7500490	7.1291212	2.4807563	2.0195596	4.9618178
## 19	5.9347712	0.3634515	2.1500072	6.7025176	4.4911861	6.2273579	2.2402838
## 20	3.0329648	0.3644604	4.7164971	3.6098140	7.1450395	2.7544600	0.0000000
## 21	1.9354975	7.4574244	6.6652563	4.1980619	11.4889303	3.2441868	1.1445685
## 22	8.2908994	4.4047124	0.8668684	1.1606621	7.9160419	3.6475563	3.0002885
## 23	0.5566992	3.5057639	3.6206802	3.3809095	12.5129647	1.9355352	0.0000000
## 24	6.9422072	5.0350564	0.0000000	4.3111034	5.9962757	4.3111034	5.4794537
## 25	3.4588019	0.4031586	4.5784618	4.7438381	4.7263680	7.1088433	0.7179122
## 26	4.4440906	0.3405053	4.6105642	11.8264735	4.9947924	1.7639214	1.3771237
## 27	7.9507787	1.4820222	1.0538064	6.8372230	5.2457999	3.8350347	2.5015156
## 28	3.2157097	1.4103411	0.0000000	8.6203624	10.7990593	2.1097283	1.6194130
## 29	6.7055011	0.9291092	0.6805044	7.0811404	2.9875392	0.9291092	0.9291092
## 30	5.1366221	1.3138263	1.5147535	9.1959693	5.3618596	3.6457823	5.3618596
## 31	5.9400375	6.6022059	0.8437427	4.3271053	5.5078327	3.7776406	1.1322478
## 32	5.1873956	1.9286546	3.7688830	4.7716638	4.8958794	4.5080736	2.5637195
## 33	6.1087921	0.4374408	1.4705108	11.4262512	4.8215010	3.1933617	4.0519202
## 34	1.8587767	0.5238630	0.0000000	9.6736170	5.9711710	1.6731493	1.2100771
## 35	2.9913359	2.9913359	8.4332775	4.5206674	6.5536400	9.0767306	2.7770304

## 36	9.7933144	1.6502131	0.8918080	5.8009905	9.8907929	3.7447101	3.7900317
## 37	4.1873798	1.4446141	0.0000000	8.5377674	4.3484803	2.8128473	2.5198690
## 38	5.8606078	2.3839393	3.0058850	4.3904545	5.5150091	4.1372740	0.6439485
## 39	4.0698912	1.6751836	6.1537304	4.5195608	4.6763069	3.6330708	1.8609231
## 40	10.2905317	9.7589667	0.0000000	5.0907010	10.7138577	7.6046763	1.1918784
## 41	8.4455699	6.6850767	0.0000000	0.7270927	7.8781613	4.9759603	6.5249099
## 42	4.4821126	2.9526504	6.7614449	5.6348778	10.9684134	0.8066128	0.4589069
## 43	0.5318680	11.2614229	0.0000000	3.6543897	7.7894730	3.7531017	2.0429244
## 44	2.5078961	2.8580805	0.9542708	10.9457394	4.2808747	2.8580805	2.3399355
## 45	4.1369706	0.5733745	0.5733745	8.1648727	6.0100100	0.5733745	0.9826560
## 46	6.8104791	1.6728326	2.7730891	4.8255211	5.0164428	3.4870361	3.0521724
## 47	1.7733212	0.0000000	0.0000000	6.4604428	6.7510218	0.3810618	2.2102642
## 48	6.2662824	1.8479168	1.1080226	5.6635126	6.3757241	6.3089597	3.5822067
## 49	4.5366498	0.6503050	1.9438838	10.3945726	6.1273568	3.4169883	1.2772111
## 50	4.3451976	0.0000000	3.2287110	6.0666898	5.8820487	9.1011676	2.2824398
## 51	2.1652366	2.6750481	0.3971458	5.4727932	11.1003667	3.5180693	4.8988855
## 52	2.9339314	0.0000000	4.8527929	5.3238816	5.6405110	9.1902104	2.1550368
## 53	3.2527184	0.9887029	4.9476895	5.4696972	10.4405362	5.7503439	0.4093638
## 54	4.2815425	0.0000000	0.0000000	9.7396534	5.7978975	3.6267312	3.7073150
## 55	3.3138988	0.0000000	4.2165247	7.0399093	3.6240775	7.0101868	3.6585428
## 56	3.3147545	11.5725827	0.0000000	1.7828279	5.2487625	4.4156032	9.9477458
## 57	8.0831485	1.6632535	3.2184557	7.3850712	4.4322379	5.8776019	4.0472068
## 58	6.4720214	0.4008658	0.0000000	6.7375502	4.6636463	2.3685728	4.7348017
## 59	3.8030100	8.0980295	0.0000000	5.5253861	10.3518267	4.2226423	7.1444084
## 60	5.3257929	2.6767413	2.8486380	6.2577178	1.8863941	10.1741004	0.3444877
## 61	3.7525452	0.0000000	0.0000000	13.0685801	4.8427476	0.0000000	3.0538586
## 62	6.3680053	0.0000000	0.3748447	8.9863936	1.3124328	1.1288873	1.9880848
## 63	10.8906457	0.0000000	0.0000000	9.8435194	1.9923334	1.0588014	1.6628435
## 64	3.5037812	0.8698714	0.0000000	6.3445587	4.2633650	0.8698714	0.0000000
## 65	12.0378805	10.2059461	0.3503841	5.3231935	9.3277893	2.1933302	0.8676593
## 66	3.8232602	0.3494785	1.7935214	11.7129327	4.0310158	0.0000000	4.5188687
## 67	5.8506119	0.0000000	0.7373406	8.8126022	3.8082512	1.2229282	6.5192777

## 68	2.7222256	0.6978628	1.1662013	9.9147729	3.2324152	1.1662013	3.5712885
## 69	2.6858953	0.2944296	0.5389354	7.6604481	5.8080555	4.4334202	4.1503322
## 70	5.8965794	0.0000000	4.1324288	4.4146903	5.0004102	1.6169693	1.9093507
## 71	2.9703383	0.5271704	2.3132459	5.2075259	8.7444245	1.6805944	0.9124199
## 72	3.7619873	0.8168864	1.0992279	9.1908045	2.9018227	0.4655044	1.7158055
## 73	5.2608650	4.1063986	0.0000000	5.8812951	4.3805909	0.5994130	6.5221358
## 74	3.8459817	0.6614760	0.3683772	4.9523009	5.7763778	1.2953116	0.6614760
## 75	8.6824374	3.7074696	2.1673900	9.1879018	6.0251839	5.9530883	6.7028598
## 76	2.3649366	0.8113066	0.8113066	10.5752292	4.9455187	0.8113066	0.8113066
## 77	8.9494792	4.4512639	0.0000000	10.2029791	1.0131406	1.8261112	3.1106138
## 78	8.3909084	10.6466262	0.4165155	4.0054180	7.4542096	4.3031670	8.4390035
## 79	5.7435500	3.6252939	0.0000000	9.9134910	1.3484591	0.5997939	1.8388711
## 80	3.9656642	3.7209898	0.0000000	1.9424207	10.2464683	4.5195167	7.5503828
## 81	9.0294620	0.0000000	1.5614972	8.9604897	0.9824369	1.5614972	5.4889905
## 82	9.7691371	0.9245560	0.9245560	9.4735509	4.9158650	6.1138109	3.7626677
## 83	1.9708905	0.0000000	2.5954559	8.9240283	5.0952029	1.0439744	2.0654344
## 84	2.5755060	0.3346827	6.0100301	7.5176332	6.1006413	3.4832096	1.8523984
## 85	1.5540485	8.0295871	0.0000000	3.4539784	11.8182766	3.1734633	0.6353365
## 86	3.3796210	0.0000000	0.5448810	10.9783682	3.9501138	0.2980717	2.0746767
## 87	3.4037585	0.7319652	0.9937830	5.9952403	5.6122935	5.6507617	2.8637204
## 88	4.9451535	2.6925388	0.0000000	6.6911824	3.6352552	4.3130499	1.8007032
## 89	1.1650436	2.5776101	0.0000000	3.3378110	5.7550905	8.4136017	1.1650436
## 90	2.1019862	0.5912964	2.6598104	7.4367115	5.4614794	0.3257318	0.0000000
## 91	3.6816966	1.6559471	6.1480698	5.1896902	5.8129320	4.6451771	0.7799741
## 92	1.7622638	0.0000000	2.8034130	4.5501742	5.9473319	8.4695152	0.6763577
## 93	4.3443953	1.2359721	0.7464848	10.6432301	2.8276361	0.7464848	0.4209405
## 94	5.4012448	1.7190958	3.6721877	6.2328910	5.0483975	1.9505804	2.6879789
## 95	1.6819889	1.6819889	3.1709986	4.7073260	8.2655593	3.7467535	0.6343145
## 96	2.1787784	0.9121900	8.6168340	5.3148778	5.8329558	2.0309716	0.0000000
## 97	4.7397239	3.6961830	0.0000000	4.2884102	9.6260277	3.3177816	7.2048753
## 98	2.1555550	0.0000000	2.4573579	7.2380741	5.0800820	0.7579620	2.0391033
## 99	8.1062698	1.6890755	4.0506410	6.0336653	5.1029856	3.3527444	1.1834548

## 100	6.5063687	3.1474695	2.9779027	6.5218784	2.7856970	2.3017340	2.1502997
## 101	1.7401504	0.6042611	4.0980152	10.8831368	3.2604171	0.3335382	4.4973888
## 102	8.7937659	0.4854268	1.9259994	10.4235362	4.8972404	0.0000000	2.7224660
## 103	2.2916330	0.0000000	5.6687460	9.6867052	4.7254412	0.0000000	0.6035967
## 104	1.5527213	2.1636919	5.7851032	4.5018977	5.9744742	5.0487157	0.4716557
## 105	3.4481345	0.3124328	1.2933116	11.6342894	7.6732688	1.6673472	1.2933116
## 106	7.8693205	0.7004397	0.3923174	10.8622172	7.0775955	0.7004397	0.7004397
## 107	2.2072994	0.7854250	3.9516437	7.9506737	6.3196793	8.8917111	0.4455148
## 108	8.4274038	1.4547023	0.3675947	4.5627492	5.5676458	4.3328010	0.9034240
## 109	3.4330396	4.4257480	0.0000000	7.5924839	2.6658021	1.6903724	1.4760706
## 110	3.6218409	2.1132671	0.9985566	3.7342977	6.5670038	1.2207633	0.9985566
## 111	1.3708896	2.2651668	1.1820566	7.9950571	12.6412329	3.1067168	3.3049782
## 112	7.1476049	0.0000000	0.0000000	7.0283802	5.2187308	2.1151331	0.0000000
## 113	4.7621309	1.7708290	0.0000000	6.3543869	4.8850130	2.7288565	0.0000000
## 114	2.9979066	1.4135399	1.8727106	8.4322329	5.6888070	0.9987732	2.1136338
## 115	5.9461834	6.3798410	2.0010095	4.8691953	10.2662566	4.1550773	0.0000000
## 116	0.9848445	0.0000000	0.0000000	5.0997076	5.5651280	1.9772066	0.0000000
## 117	6.5013770	1.4402081	3.3987745	10.4917758	5.0366660	0.5749250	2.0643310
## 118	4.9239431	2.9764920	2.0436945	5.0380454	5.4829354	6.7606587	1.1694120
## 119	2.6963277	2.3536338	4.9610676	6.7625309	5.0972484	3.0346383	2.2535355
## 120	0.6156988	0.0000000	0.0000000	3.8653943	5.2778397	10.1936270	0.0000000
## 121	4.6705911	0.5391340	0.5391340	6.5104493	4.1872848	1.2383589	1.2383589
## 122	3.8662948	1.7816115	4.1185425	5.5645062	5.7439915	1.0320303	2.3728407
## 123	3.3617543	0.0000000	3.3617543	11.0870353	5.2524649	2.5842169	0.0000000
## 124	3.2117131	2.3159140	7.7293006	4.6006801	8.9787677	0.6890307	0.3852654
## 125	7.0218650	0.4859420	9.0672797	3.6104048	4.7021034	2.6337102	0.2632748
## 126	2.3835246	0.5077185	0.0000000	8.2769846	0.0000000	0.0000000	0.0000000
## 127	3.7492983	0.0000000	2.5799283	6.1653975	3.5446708	0.0000000	1.4742024
## 128	8.3282396	1.7237770	0.0000000	7.0845395	6.0767878	0.3650206	0.0000000
## 129	0.5051796	0.0000000	5.6089216	6.6553633	5.4519298	1.8139351	0.8786861
## 130	3.2769433	1.6181447	5.7322068	4.5709061	5.8814933	3.2769433	0.4997821
## 131	2.8211183	0.4403144	0.0000000	2.8211183	5.7878242	0.4403144	3.0246388

## 132	1.2052048	1.4547023	4.8288600	8.4297992	3.2787133	2.4202129	6.8294500
## 133	6.4491668	2.3004752	3.9197500	5.5646525	6.2023100	2.1806571	3.5841568
## 134	2.8711931	1.3242346	8.8892116	5.4300042	4.8715923	8.4936653	1.7682479
## 135	2.5586350	1.7847971	4.5049953	6.1121767	6.6664854	1.9074676	3.7585590
## 136	4.2446131	2.2773302	1.6497074	10.9457037	4.3987676	1.6497074	0.8914970
## 137	3.5673386	2.6443409	1.7870145	6.8252132	6.4509572	5.8941726	2.1703738
## 138	1.1054769	7.8717685	0.0000000	1.5923972	7.4385707	2.1554902	9.2722418
## 139	4.6905512	0.6763577	1.1350751	3.4813248	4.2885136	3.6626157	0.3775125
## 140	5.1804861	1.6318493	1.6318493	8.2444447	4.4310145	1.8151245	0.5056877
## 141	3.0437644	2.9715528	0.0000000	4.5573059	5.5513222	9.5657567	1.7720968
## 142	4.1486494	3.9017937	8.1644846	4.3346612	7.8172952	5.7171116	2.7178245
## 143	2.5967205	3.9131766	4.0132300	2.6802793	10.5506246	2.5967205	5.3331088
## 144	3.9037228	1.2337040	0.0000000	4.1432628	7.7422158	4.2496046	0.0000000
## 145	8.3379398	5.7559878	0.0000000	4.4810276	7.6137438	2.3321923	8.6957986
## 146	2.6262055	1.2696915	0.5562087	8.1553323	5.5136455	1.2696915	0.0000000
## 147	3.5452889	1.8385888	5.7049854	7.1192794	3.7564896	5.0128994	0.0000000
## 148	6.4099611	4.5734412	0.0000000	3.2331825	5.4065571	7.2446997	6.3997419
## 149	2.2393980	1.3154503	0.8027309	4.6116681	5.2977894	2.4505910	0.4564908
## 150	1.9121516	0.5465611	0.0000000	4.4414702	5.3921422	3.7481070	1.2521128
## 151	2.1843755	1.0092755	1.1802752	8.5978250	5.0066616	0.5912007	3.7450867
## 152	0.5010060	1.1670367	3.9951046	8.2871167	7.8202900	4.0683355	2.7681420
## 153	5.3003471	2.9124583	10.6571632	5.2862195	10.7173107	2.0259147	1.3426685
## 154	6.5221358	8.5744925	0.0000000	6.5070366	10.1757515	2.7530910	9.5500624
## 155	2.4206980	1.5385382	0.3472121	6.7061907	7.2248854	2.1820248	1.8958842
## 156	2.4550181	0.5831339	3.0827026	4.5183967	7.3912367	1.8035164	0.9973285
##	rs_AK5	rs_TTC36	rs_TOX3	rs_IRX4	rs_CA3	rs_SCNN1G	rs_TPSD1
## 1	7.192084	7.0453938	9.3300326	4.9734597	5.2363816	5.9602731	0.0000000
## 2	8.681404	3.3771237	8.8433015	5.0026620	4.7356197	4.3829024	6.6222159
## 3	5.654857	6.4423215	9.0010858	7.8906011	6.7224155	6.2683970	1.3005338
## 4	4.064685	3.4171504	11.4384707	1.3860936	3.4171504	6.0076082	3.9183862
## 5	6.684012	7.5817316	9.3176025	2.9514572	2.4217484	3.0921567	6.0865545
## 6	3.507592	0.0000000	8.5039577	1.3538878	6.6403201	5.6063771	2.9528367

## 7	6.436547	0.8248086	6.4106209	3.7789024	3.9823274	6.4870409	0.0000000
## 8	3.680662	0.0000000	5.8148042	7.8957601	4.4088273	6.9101714	0.0000000
## 9	4.808205	0.0000000	5.3938383	8.3972365	2.6312207	2.3663642	1.3553546
## 10	4.922859	4.7804151	8.4315628	0.0000000	3.1935037	10.0727796	11.0294418
## 11	5.253089	8.4259464	9.4259540	8.3643010	4.7599920	4.1204681	4.2780442
## 12	4.847917	1.6888070	2.1162982	4.6058854	7.7807471	9.1252843	3.5992345
## 13	3.978992	0.0000000	0.0000000	5.2272828	2.2708279	7.9210989	1.7257848
## 14	8.860488	5.9848718	5.0224255	5.4338007	4.6512641	6.5048158	7.0629398
## 15	7.084309	8.3990805	9.9817011	1.9480027	4.2989002	2.3016754	2.9613826
## 16	8.376488	7.9099027	9.8400721	1.9141052	0.5474498	5.1911283	8.7394293
## 17	4.899475	4.6094831	7.8925252	4.0416110	1.4180280	9.5875799	6.7213057
## 18	4.408488	5.1597139	9.2170366	0.8186052	6.7860539	6.0086079	0.0000000
## 19	10.128772	7.8468813	9.8043019	5.8655601	4.3702759	6.4611405	3.1735752
## 20	2.872376	6.7068496	10.5172542	3.8870475	0.8970080	4.4768612	0.3644604
## 21	4.376846	6.3382675	10.7249008	2.0802142	0.8537562	2.8184211	4.8094505
## 22	6.191322	0.4976379	0.0000000	9.7387295	3.9268724	5.2189284	0.8668684
## 23	6.002160	0.0000000	10.5193857	8.1967610	3.5643660	2.5131622	0.9573203
## 24	6.154358	0.4537546	3.0690663	1.6860298	3.9959096	6.9975047	4.2281722
## 25	6.250297	6.7640727	10.5746893	3.9550431	3.5410192	2.4630731	0.0000000
## 26	4.353041	6.1447949	8.1793025	2.3950628	4.4960788	5.7756274	3.5422457
## 27	8.065325	6.1041374	9.5360368	4.7455063	3.5558652	6.6437942	0.0000000
## 28	3.875662	1.4103411	7.8520725	5.5675728	3.8072519	4.6221631	0.0000000
## 29	5.690082	7.6321875	9.7834305	1.6366826	2.8657803	3.8030617	5.1314825
## 30	9.359923	6.0446892	9.2329590	5.2951757	5.3604240	8.0726793	0.0000000
## 31	4.176746	7.6894431	5.9306687	1.9188823	2.5280712	5.7507432	7.6006808
## 32	6.087834	5.5535110	8.2319368	1.9286546	2.1727435	2.3814218	5.3575520
## 33	11.034597	5.0699341	8.3635833	5.6608545	5.5510176	6.7355425	6.1087921
## 34	8.124230	7.8092376	8.5334353	5.7187370	5.8339527	5.4989114	4.5708940
## 35	3.177886	5.9047153	10.4003785	7.1887936	5.4165831	1.3007680	6.5924496
## 36	8.042457	3.4380932	6.9161577	4.6412397	3.9974460	5.0848169	1.4388251
## 37	8.316022	6.5343698	8.8903421	3.3882584	2.4072984	6.3410767	2.5198690
## 38	5.955222	7.2458531	9.4267635	0.3576083	0.3576083	7.0996476	0.0000000

## 39	4.966809	4.7950552	10.7127443	0.5247658	3.0803848	3.9521472	3.7316612
## 40	5.702095	0.7157177	4.9776188	4.7382490	10.7669054	3.4952091	2.3714752
## 41	6.260903	1.2082675	8.3284025	0.0000000	4.1416780	6.2731783	0.0000000
## 42	5.148015	3.5219302	10.6863588	0.8066128	3.9983309	0.0000000	4.9171405
## 43	9.371054	1.2249664	1.2249664	0.9196833	5.2087943	8.9355520	1.4767964
## 44	7.036973	3.0875647	10.7280331	5.9673369	5.3969301	7.0404015	1.6725159
## 45	6.772750	6.0316973	8.7514296	4.9434807	6.2403563	8.6981785	7.3095937
## 46	9.232927	5.0164428	8.9315649	7.1061598	2.9193592	5.2277834	1.8290783
## 47	6.460443	5.2887092	7.2550597	2.1128002	6.5081783	3.8977922	7.3623200
## 48	9.405999	3.2729339	9.1321689	7.2293726	3.1840263	9.0049126	1.1080226
## 49	6.516436	8.0588609	9.3102195	1.2772111	3.4538204	7.5703574	5.6014380
## 50	6.515802	5.2494453	8.6487325	6.6560244	4.5963568	3.5790594	5.6144448
## 51	5.377044	0.0000000	9.4354234	4.6845270	4.0068366	7.8219984	0.0000000
## 52	5.469398	4.9551872	10.6906094	1.6440408	4.0364242	6.8250275	0.0000000
## 53	5.802167	0.0000000	10.2260733	7.0507553	0.7279640	7.5192006	0.4093638
## 54	4.786988	5.9792091	9.5863073	1.8004961	0.8803329	8.0456903	5.6830479
## 55	9.570599	6.5955424	11.3900436	4.2843216	3.7067737	4.3062258	0.0000000
## 56	2.652808	0.4924172	0.0000000	0.0000000	7.5608938	7.9656856	1.7828279
## 57	9.067918	5.2692651	9.8368539	6.1365400	7.9477182	6.1803130	1.0590783
## 58	10.077941	6.1528527	9.1874642	6.3067234	4.7106467	7.6433288	6.9617229
## 59	2.844888	0.6681191	0.0000000	6.3573215	3.2979104	8.8037107	0.0000000
## 60	4.496744	6.1246362	7.0304277	1.7770725	0.8552722	5.7071935	4.0093024
## 61	6.862285	3.5043280	9.9912596	2.6261821	7.0784721	8.7557428	4.0462815
## 62	3.123434	3.8431899	9.8766696	3.2184712	3.9851087	7.7908919	3.4709663
## 63	5.030499	4.2790626	8.6561034	2.5544415	2.1764504	10.4072500	5.4344581
## 64	11.139727	6.0160349	10.2622606	5.8500443	4.0227584	5.6386792	5.1432342
## 65	3.516772	0.0000000	0.3503841	6.7503291	5.7072487	4.6704835	0.3503841
## 66	3.547030	3.0224921	9.9450353	4.4299507	4.8420083	6.2075356	0.0000000
## 67	11.015447	4.7735164	9.4672071	7.7691423	7.8760006	7.2520438	6.4046733
## 68	7.720824	6.8744675	6.7255271	4.8105202	3.8008067	7.4190762	6.8474445
## 69	9.915731	4.4633478	8.6721753	5.9783581	5.9079578	6.6977738	5.8539657
## 70	3.315885	3.4583558	10.8827005	0.4270698	3.3158850	4.6307316	1.2498700

## 71	4.114459	5.5709881	10.8251092	4.7679778	6.1695102	6.5825409	0.0000000
## 72	6.352815	8.3310092	7.0934693	2.9735194	5.1840501	3.8407955	0.0000000
## 73	4.727692	0.0000000	0.5994130	0.3305584	1.8076022	4.9602939	4.2885358
## 74	4.250484	7.2475469	12.1166008	1.7341785	3.7118253	8.8947738	4.8685929
## 75	11.333359	6.4434691	7.5149491	7.1297734	6.2115554	7.9577927	1.9475166
## 76	3.708916	4.2566257	11.0565565	3.0304244	2.5622058	8.3944768	0.0000000
## 77	5.047774	2.1903620	2.1903620	2.4809113	8.3429933	2.8298496	3.9313616
## 78	5.486779	0.7392433	1.8786861	6.0354414	5.9695488	9.3786386	6.4263771
## 79	2.621665	3.1263121	2.3571860	1.6144272	11.3587787	2.0330882	5.2907303
## 80	5.682874	0.4918018	7.6085934	0.8579014	4.6289660	8.1442162	1.5998414
## 81	9.095287	3.2901590	6.0841089	4.4897677	6.7131775	4.3586705	4.5808208
## 82	10.727246	3.2527335	6.4464978	6.0662636	7.8999556	6.6980643	2.7734478
## 83	7.268400	6.4342813	7.5311163	5.1501616	3.1477951	4.4222801	3.5709486
## 84	6.608893	5.6761122	9.8970595	3.1428872	6.3840878	4.5356300	0.0000000
## 85	5.924836	0.6353365	0.6353365	5.3997590	10.6698199	8.1169947	4.2037806
## 86	0.544881	6.4626413	8.8329697	0.0000000	3.3258325	8.9264259	0.0000000
## 87	5.144405	7.4054759	8.9446778	0.9937830	3.3174343	6.7514316	5.5926693
## 88	4.663447	2.9918257	0.5818815	6.1506551	1.3163196	0.0000000	4.4505119
## 89	10.796036	5.0026620	7.5464361	6.6553991	1.8010345	7.9699062	1.1650436
## 90	4.525937	8.6029430	9.7788357	0.8154935	2.4749811	8.3340596	2.2629142
## 91	4.942974	6.2737303	9.7615137	7.7485632	2.5309447	0.0000000	0.0000000
## 92	5.792486	6.9391149	10.5654392	0.6763577	1.8841681	3.5565030	0.3774014
## 93	3.758847	3.8965044	8.3089633	6.4552105	3.8389114	4.6856767	5.0229048
## 94	5.858481	2.5536308	9.7753769	4.2299724	3.0527637	4.2077757	5.5409789
## 95	6.756539	3.6861643	7.5347262	2.2825288	0.0000000	3.0797194	4.7670562
## 96	5.232668	0.5270703	4.0385942	5.4664509	0.5270703	3.5878570	0.0000000
## 97	5.044289	1.9965334	4.4938458	7.9542522	3.5718103	9.4880516	1.3191555
## 98	5.989666	6.9462864	9.3571187	1.4476850	2.9838418	6.1596837	1.6197886
## 99	4.393739	4.3717610	9.0501678	0.7098200	0.7098200	7.0226119	4.4784412
## 100	9.985963	8.3968496	9.4321278	2.6790634	0.5765705	4.6761320	6.2696560
## 101	2.042959	7.6016817	10.1739598	1.3564256	1.2018847	2.5062465	2.8563683
## 102	7.037821	3.8678965	9.3133366	5.8328900	0.4854268	5.9212459	3.6088092

## 103	6.593718	9.5653371	2.2130050	6.9913382	4.5096452	2.1298105	2.3661963
## 104	6.491035	6.6770092	11.0379024	4.3460137	3.1267582	2.7657469	2.1636919
## 105	5.714391	6.7565070	10.6904814	0.7869309	0.7869309	7.1954352	0.0000000
## 106	6.306173	4.8796911	9.3480106	3.5392581	4.3861833	10.5128531	0.7004397
## 107	7.529832	6.4567290	7.7711600	1.0603241	3.6528306	2.4173260	6.9835569
## 108	5.522822	5.1030612	7.6125324	0.6601985	2.0676043	6.8604377	5.6281466
## 109	7.437979	2.8553519	6.3589254	4.7220616	5.1776468	4.8163181	5.2804404
## 110	6.048823	4.5822007	4.4346549	2.5001392	1.9978343	5.6976126	0.0000000
## 111	4.324487	4.3471554	8.5823189	6.7831567	4.8249969	6.5293618	1.9468431
## 112	6.088786	6.0163648	7.0557390	5.7069173	6.8305431	7.9396198	4.3918914
## 113	4.530757	4.7621309	8.6361305	0.8513593	1.3831651	3.6622739	0.0000000
## 114	7.800663	5.1269481	9.2822327	1.4135399	2.5340616	5.5624317	4.6606549
## 115	6.470566	3.9461132	8.2521138	1.7664680	1.4863025	4.3375612	4.1550773
## 116	8.185587	4.2930099	4.3860246	1.5647196	0.7248249	10.0075800	7.3987830
## 117	5.462200	4.9248505	9.8245655	6.8586661	4.3644674	7.4676854	6.3363584
## 118	5.421183	6.5460023	10.1336862	2.0436945	1.5229597	2.0436945	3.5383395
## 119	8.219298	5.3362120	9.4101513	2.8412888	3.0567916	3.6994073	4.8454850
## 120	3.124146	7.1851748	10.9350770	0.0000000	0.0000000	6.5281993	0.0000000
## 121	6.704702	4.2227273	8.3838395	4.7456084	4.4787065	5.4156742	3.9541312
## 122	4.333180	6.5111248	7.1679600	3.9979246	1.8375396	2.3728407	3.7214383
## 123	4.341538	7.0325285	10.5090156	2.3004459	3.6520619	8.4791699	2.9600483
## 124	8.252422	3.5872810	10.2412281	1.3394225	1.9087361	2.8322419	3.4322780
## 125	4.234302	5.0373031	10.1588250	3.7240718	0.8487982	4.5866206	2.3233124
## 126	2.873242	7.8745591	7.8163539	0.8825257	0.8825257	5.0832559	5.9677197
## 127	5.472140	6.7930635	8.8603672	0.0000000	2.7420925	7.5821691	0.0000000
## 128	6.070623	3.6120104	7.7397023	1.9555732	1.9946521	6.8811335	2.5591981
## 129	3.671441	5.8690916	4.2181534	1.1750455	2.7804361	6.6909311	0.0000000
## 130	2.240498	8.3576426	7.7593423	5.9214554	1.4091465	1.9626231	5.6513416
## 131	11.474414	5.5225549	0.0000000	0.4403144	6.0767921	0.7771988	0.0000000
## 132	7.001032	3.8572445	8.7087397	5.3590502	3.8999297	3.8999297	4.3937800
## 133	3.956698	7.7214479	8.0638701	5.7549810	3.2407875	3.8818310	4.7290198
## 134	7.741227	4.4028177	11.1449757	5.2363855	4.6817528	7.6555787	7.7693453

## 135	7.866320	7.5855117	8.8688966	2.4005379	0.0000000	2.4005379	3.5102531
## 136	6.718610	4.3692222	9.8043193	2.8043634	1.8339830	7.1243354	3.9172981
## 137	6.789127	6.1992601	9.0670689	5.1704859	2.2784309	7.6174910	2.5612039
## 138	2.245861	0.0000000	3.6122935	2.0591130	7.0836548	6.7486772	0.3650206
## 139	4.622122	3.2286340	7.9244794	0.0000000	0.6763577	8.3661998	0.3775125
## 140	2.123832	1.4218561	9.6766278	5.8393348	0.5056877	4.6397820	2.1238317
## 141	5.930357	0.0000000	7.7654432	2.4405005	2.8152885	3.6173102	0.0000000
## 142	5.259596	5.7361096	6.2339724	8.8764310	0.7633266	4.0304950	2.2736651
## 143	9.847662	1.8174595	8.1018995	1.6617040	13.2088756	7.5587222	1.8174595
## 144	6.310994	4.1060049	9.9340551	7.6610420	0.5366498	5.2963436	0.0000000
## 145	3.312709	0.3654686	0.3654686	3.0368022	3.8628084	6.4837851	7.6597155
## 146	8.685205	7.3047164	8.2136428	3.1693157	0.0000000	6.7643939	6.5638140
## 147	7.505658	7.7248256	8.9295863	2.6213369	5.9974640	7.7958462	6.6009640
## 148	3.828357	0.0000000	6.9547686	2.0004327	8.2532788	4.5734412	1.1378314
## 149	3.690451	2.8732817	10.2281862	7.1159582	0.4564908	5.2421261	2.7980920
## 150	5.360143	0.0000000	2.7065085	0.9420077	4.9297673	3.8437728	0.0000000
## 151	7.380389	5.6475419	8.1204660	4.9005770	6.5661028	3.8999490	6.9609217
## 152	4.443481	7.2371927	10.7570248	8.4972930	1.4117516	3.9179568	4.6484309
## 153	5.991000	2.4876664	9.8231265	2.1559435	0.4689482	3.1803548	4.1617829
## 154	6.423721	0.9685700	6.2830698	4.3768946	6.4087407	6.4344014	0.0000000
## 155	6.521941	5.5874010	8.1732184	1.5385382	2.7474089	9.8493830	0.0000000
## 156	6.587113	2.6958825	6.8894638	4.9489699	0.7967639	0.0000000	5.2426711
##	rs_TSPAN1	rs_LOC389033	rs_PART1	rs_CRYM	rs_HOXC10	rs_DBC1	rs_SLC6A11
## 1	12.384874	4.5929832	2.7157177	4.4867272	10.8738677	4.3418577	0.5144000
## 2	11.031216	4.8117998	2.2052361	3.8442450	7.3972451	5.2554516	0.7843365
## 3	7.309785	0.0000000	3.7481499	0.4497462	6.5362907	5.0841408	0.0000000
## 4	10.186981	2.7329204	8.3278791	0.4889263	3.1152330	3.2436691	6.5513422
## 5	9.950571	4.5103797	0.8418926	2.9514572	9.3131166	3.0235215	0.8418926
## 6	4.219935	0.0000000	9.1987355	2.5028398	10.3137721	6.0744626	3.6335242
## 7	6.073229	0.0000000	6.5596172	8.5628884	8.5316567	5.2777654	5.5979900
## 8	4.900239	0.0000000	8.5857302	0.7617108	9.4301677	8.0738829	7.6754292
## 9	1.847075	0.0000000	8.7642831	1.3553546	10.3990280	1.0279325	7.8232641

## 10	10.004611	3.9696478	1.6026944	1.9455702	10.9638594	0.4930324	0.0000000
## 11	10.637989	0.4164074	3.8462325	5.1066833	10.9293671	2.1195554	1.8783330
## 12	9.226944	0.0000000	1.0785415	6.7213986	8.2275669	3.5544292	2.6297063
## 13	5.209399	0.0000000	6.2522472	1.7257848	3.7507244	1.7257848	6.8161901
## 14	10.090300	4.4447664	4.6512641	3.9768493	10.6780715	6.7491105	1.8800977
## 15	10.193729	6.5420104	0.0000000	0.7778720	11.0521442	3.1474207	6.5084318
## 16	11.230307	7.5395349	3.4792694	4.6167576	9.7739317	0.0000000	0.0000000
## 17	10.952269	0.0000000	5.5018977	0.8766446	10.0308747	2.9427960	0.0000000
## 18	7.958869	2.9768952	1.8768803	1.7185260	9.0689999	2.7500490	6.1393917
## 19	12.232274	2.3252137	7.3143621	1.2824991	10.6829491	5.9143540	3.1735752
## 20	11.179022	0.0000000	4.7164971	0.3644604	9.2895634	5.0896126	7.2818827
## 21	9.773436	0.0000000	4.4585657	5.6035937	6.0350674	6.0527180	4.9666796
## 22	6.530341	0.0000000	3.0727061	0.0000000	9.7198286	0.0000000	6.9890220
## 23	8.626126	0.0000000	7.4988133	4.4408260	11.1020131	2.9244990	4.9604839
## 24	5.354688	0.0000000	5.9013303	1.8428984	4.6873071	5.1294809	0.0000000
## 25	10.063611	7.8770098	1.7035437	0.9762170	10.8019491	5.2262773	3.6561874
## 26	13.604681	0.0000000	4.9704948	1.2210728	4.2758265	4.2356198	1.6461627
## 27	9.047061	5.7571460	4.0688342	2.8984406	9.5311492	6.6281860	0.0000000
## 28	11.653989	0.0000000	4.0662012	8.6857201	10.5224291	4.7609661	5.4898576
## 29	13.534843	0.3800645	2.4647728	3.2838329	3.1916574	3.3277879	0.0000000
## 30	10.243745	2.7957877	5.8815398	6.1082212	7.8445325	7.0977267	2.2372884
## 31	11.198949	5.6286132	4.8684201	2.7142675	6.0039575	2.3142035	0.0000000
## 32	9.744568	0.4339209	2.6468999	2.8710156	10.7389959	4.3680070	0.0000000
## 33	9.139235	5.3206868	5.9607503	3.7053034	8.9130345	5.7394836	1.4705108
## 34	10.074219	4.7458773	3.6804819	1.6731493	10.4315342	4.9639457	2.4271502
## 35	8.266734	0.0000000	2.8520588	5.6447331	10.3192421	2.1020198	1.6759965
## 36	7.349805	2.1447317	4.9909004	4.5650731	6.7711421	5.7673953	3.0482187
## 37	9.598852	0.0000000	3.1290522	3.7984964	4.3786503	6.1088485	6.9998986
## 38	9.881703	0.3576083	0.8827604	4.2694147	10.8607832	2.8457510	2.4596677
## 39	10.052353	0.0000000	7.5605247	1.8609231	11.2930126	1.6751836	0.0000000
## 40	5.702095	0.7157177	3.9496190	3.2735905	9.6837868	4.8060662	5.9470489
## 41	2.786115	0.0000000	5.7657098	0.4088205	9.6663714	1.5684700	7.7279545

## 42	11.098305	0.0000000	5.3733002	9.1527214	9.4822868	2.4579619	3.0858835
## 43	5.314236	0.0000000	8.2842203	4.0142035	9.2579417	3.7531017	4.5138507
## 44	8.980431	0.9542708	4.5353811	1.1699891	9.3058894	5.3355011	0.3923174
## 45	10.552412	5.2878896	1.3010608	4.5812307	9.8277554	5.1359863	1.7824924
## 46	10.226906	4.8801467	2.7730891	2.9873027	10.7661100	8.2943395	3.9624750
## 47	7.026615	0.3810618	1.6397415	3.1956626	10.5624189	3.8977922	0.0000000
## 48	10.995883	0.6578229	3.6829890	4.3876452	10.0916998	6.7299483	4.1963159
## 49	10.557444	3.6958825	1.0969365	1.0969365	9.3173199	1.5816887	0.3614315
## 50	10.757868	4.4969608	0.0000000	3.6174160	10.0724957	4.1496252	0.9754835
## 51	3.435975	0.3971458	7.0566843	1.6861643	8.6930143	3.4775996	0.0000000
## 52	13.027118	2.0662959	0.8455904	0.3399355	3.6350578	2.6584400	4.9551872
## 53	11.944448	0.4093638	4.8849886	6.0220770	9.6720119	3.8202300	6.6166047
## 54	8.740742	1.0456526	0.7735744	2.1851371	10.0318441	6.1256676	5.6629859
## 55	12.812200	5.2007790	1.3166092	9.0324852	9.3217897	3.2699906	0.0000000
## 56	5.423040	0.0000000	6.1326159	0.0000000	8.7241308	1.7828279	6.5192305
## 57	11.560689	1.8190550	6.5408565	5.9719458	8.8469436	7.0652987	2.9750982
## 58	11.352197	5.9951521	5.7595633	2.4554127	9.6309287	7.8315980	4.0335111
## 59	3.461123	0.0000000	7.8126163	1.1230040	8.1557821	0.9134160	7.1140598
## 60	12.158769	0.0000000	1.0557510	3.3840083	10.5559469	2.0828729	1.5300208
## 61	7.374646	3.1057786	5.6350317	0.6858953	8.9042589	8.7008763	0.0000000
## 62	10.042929	0.0000000	5.3490715	1.1288873	9.1270110	3.7822723	3.0216752
## 63	8.360492	0.3457370	0.6244285	1.3922075	6.2886963	5.6598275	0.0000000
## 64	10.905888	7.1506003	2.4727737	3.3365976	7.3057854	5.6266465	3.9524081
## 65	8.900695	0.0000000	3.1654296	2.1039004	7.5413243	2.5041627	5.2416877
## 66	9.347918	5.6612365	4.1692917	0.8656813	4.8557306	0.6304987	1.2450697
## 67	9.598393	2.7377733	5.4272039	3.8082512	9.0688428	8.5517063	1.8751510
## 68	7.847025	4.9034143	1.6678467	2.6525783	4.9765011	4.3200586	2.9130522
## 69	10.787150	4.5908295	5.9416228	3.7500383	8.9719234	7.2201152	1.6031219
## 70	11.490310	0.7562547	6.0089081	0.7562547	9.2448652	0.4270698	2.9157886
## 71	10.255025	2.7515708	0.0000000	6.5040833	7.2339724	2.4935705	6.1116928
## 72	10.348021	7.1134442	4.5986749	1.0992279	10.7828778	2.9018227	0.0000000
## 73	3.897899	0.5994130	1.8380643	1.7302269	8.4057397	3.5627187	6.3506351

## 74	12.272987	4.1594919	1.6022193	1.1133671	4.2057053	0.3683772	0.0000000
## 75	10.241416	6.2644051	7.0933447	6.5203232	7.9392524	8.1490210	3.5599445
## 76	10.037424	6.8164551	1.5295711	0.8113066	10.4308450	2.8905829	0.0000000
## 77	5.640384	0.0000000	2.9296206	1.6025044	3.1106138	3.5475115	0.0000000
## 78	6.013188	0.0000000	6.0573571	3.1750615	8.9753972	2.9436213	7.6423781
## 79	5.715520	0.0000000	2.4954905	3.7410463	3.8989339	0.5997939	0.0000000
## 80	6.497729	0.0000000	6.3689289	3.1240138	8.8378985	0.8579014	7.1657261
## 81	8.144685	1.7821989	5.1944259	2.2937236	6.3829231	7.2032942	2.8763107
## 82	7.959232	0.9245560	6.1044247	2.6754546	4.3755608	7.6237213	2.0507455
## 83	9.838867	7.0342707	2.3166961	4.4748967	10.0142756	4.6064896	2.8289768
## 84	10.074872	0.0000000	1.4996291	2.3722556	10.6231867	3.3784423	4.7184383
## 85	4.922307	0.0000000	1.2528395	1.0748479	8.5260489	8.3304024	5.5435949
## 86	5.970982	3.9501138	2.5406969	0.0000000	1.1025238	0.2980717	0.2980717
## 87	11.322573	4.9575757	0.7319652	4.5929234	5.4796800	1.9906645	0.7319652
## 88	9.477501	0.0000000	0.0000000	0.0000000	10.1780129	2.1626612	0.0000000
## 89	12.261871	0.4998841	0.4998841	0.0000000	9.9487553	1.8010345	3.4513958
## 90	12.300678	1.9208268	3.6613164	0.0000000	10.2558649	1.1804662	0.0000000
## 91	12.058779	2.0796341	1.9517370	5.7079913	10.9221419	0.0000000	1.8114299
## 92	13.563787	1.9965334	7.3599911	6.4792581	10.1870708	1.4824869	0.6763577
## 93	10.930765	0.7464848	2.2409859	0.4209405	9.7263582	0.7464848	0.7464848
## 94	12.781412	4.7890823	3.6721877	4.2945913	10.0103498	2.1500397	3.5362643
## 95	8.431651	3.1709986	4.6919975	7.4822287	10.3859842	4.3452828	0.0000000
## 96	10.674879	0.0000000	5.6800458	4.1140088	9.9162884	2.7511638	0.0000000
## 97	6.363516	0.3774014	5.5190543	0.0000000	4.6736412	0.6763577	6.4984727
## 98	14.404054	3.1614846	6.9052859	1.6197886	8.7887438	1.2522945	0.7579620
## 99	10.565653	0.0000000	2.6786128	0.7098200	10.1454785	1.9486382	0.3981314
## 100	12.267469	10.2350630	1.3067872	1.9810854	3.7314874	3.4364550	0.0000000
## 101	10.817288	2.4386388	4.7272452	10.7042151	10.0234659	0.8320393	0.0000000
## 102	9.979282	4.9541963	2.7224660	0.4854268	0.8479969	4.0179219	2.6322682
## 103	10.976955	1.6219464	4.0741800	0.0000000	1.3552418	0.0000000	5.6687460
## 104	11.656733	0.4716557	5.1146127	7.7446838	11.3731126	2.1636919	0.0000000
## 105	10.202277	7.3466910	0.0000000	2.4839834	2.3535209	0.5691022	0.3124328

## 106	9.792293	2.4263453	2.5078961	2.9189586	7.9680591	3.1396496	0.0000000
## 107	9.114298	9.8449337	6.0471566	1.0603241	1.6648924	1.8207712	6.2111368
## 108	8.128530	1.2933116	2.9935113	2.0676043	3.7524596	1.7317915	3.1431648
## 109	8.886346	0.0000000	2.0420840	3.0228472	6.8121260	5.6439485	1.4760706
## 110	10.645776	3.1673579	3.9359029	7.7937112	10.6580066	2.3196179	3.2198190
## 111	9.428642	0.0000000	8.9886270	6.6842591	9.7521429	0.3975839	8.3481665
## 112	10.872673	4.4480287	3.7544707	1.6241945	10.2043245	4.8740346	1.1696685
## 113	10.645410	0.0000000	4.6041484	0.4875892	10.1230787	1.1416290	2.3279460
## 114	10.033315	4.7525720	0.9987732	3.0567743	11.2240107	1.4135399	5.2706784
## 115	5.233972	0.0000000	3.8887822	2.0010095	9.1857231	4.5373396	6.3051096
## 116	8.835861	2.2976023	0.9848445	2.1985256	10.1593971	4.6146333	0.0000000
## 117	8.631518	0.3159140	2.2240403	1.1531568	3.2946502	7.2575726	4.8036300
## 118	13.552668	0.0000000	8.6930234	6.8096781	8.2885441	4.5915956	0.7000845
## 119	10.575420	3.5804953	2.6179802	7.7830532	9.0516062	4.0370835	2.5351323
## 120	11.156467	0.0000000	5.2778397	0.0000000	10.3832458	0.0000000	2.8852034
## 121	11.400753	0.0000000	4.6183209	2.5811343	11.1860853	5.3042847	1.4918018
## 122	9.334738	2.3728407	0.0000000	1.2589410	10.4776627	2.4667315	1.2589410
## 123	9.949239	3.9665874	2.3004459	4.5091954	11.1898055	2.6676197	1.2795902
## 124	5.753653	0.0000000	7.9754966	6.3914704	8.8207486	6.3103292	7.0840653
## 125	9.277389	1.0008654	0.4859420	6.1144066	9.9071175	2.4868431	0.0000000
## 126	10.733499	0.0000000	0.0000000	0.0000000	4.2897976	0.5077185	0.0000000
## 127	10.245699	0.0000000	4.6131132	0.0000000	10.9867481	0.0000000	2.3972006
## 128	8.828734	0.3650206	0.8980922	1.7237770	4.6542866	1.4474205	7.9491363
## 129	12.017389	0.5051796	6.2570031	1.1750455	9.8010272	1.1750455	3.7634010
## 130	6.768727	0.0000000	5.7545027	9.6362334	9.9360167	5.9507180	1.9626231
## 131	12.408721	0.0000000	0.0000000	0.0000000	11.8188641	0.0000000	0.0000000
## 132	9.659666	5.5587574	7.0774097	1.6673018	9.3690893	4.6403028	2.0167459
## 133	9.073841	0.4777809	1.3620490	1.7466137	9.3521150	2.9400728	7.7506722
## 134	12.328767	3.6004482	2.3816156	1.3242346	10.3461222	3.6702852	6.3130281
## 135	11.197210	0.6883147	1.5029925	2.4817639	10.4826446	3.1616620	0.0000000
## 136	10.591227	1.4383461	2.5116957	3.0475558	6.0900637	3.5469932	2.1441443
## 137	10.913803	1.9264170	3.5240888	4.7120510	11.4792708	5.6842633	3.1215294

## 138	2.983769	0.6561760	7.7915256	0.3650206	11.1886762	6.4867803	7.2191569
## 139	7.847892	1.4825385	3.0834857	5.4810276	10.4653470	0.9238718	0.9238718
## 140	11.557471	0.0000000	2.8673430	3.4693130	11.4908479	0.5056877	0.5056877
## 141	7.277862	0.0000000	6.8395389	1.3842156	9.1276684	4.5071032	2.3293533
## 142	8.109084	1.0328061	3.1161817	2.3740935	9.7658713	2.1656869	4.7253867
## 143	5.320142	0.0000000	6.5989249	6.2344726	9.7416485	7.0862328	4.4540377
## 144	9.269957	1.4865599	1.4865599	4.8989484	9.8929427	1.7016821	1.8888114
## 145	5.950104	0.0000000	5.0059793	0.6567252	7.3690520	0.3654686	8.3558228
## 146	12.432984	3.5629628	0.0000000	2.8308232	8.6619391	3.7256866	1.7449361
## 147	13.308339	4.1937796	0.0000000	9.0223747	9.6111729	0.0000000	4.0082359
## 148	7.528833	0.0000000	7.1007096	0.0000000	3.4065095	2.5365254	2.2020729
## 149	10.569441	4.8161081	8.6783262	1.0817487	1.8501593	0.0000000	1.0817487
## 150	6.664122	1.5071603	7.5687397	0.0000000	10.1117634	6.7592064	5.1885394
## 151	7.103230	6.7013730	7.1111795	4.0618367	6.2277623	6.0681269	6.9312942
## 152	10.529166	0.8720801	0.5010060	8.6527052	11.1940949	7.4439572	0.0000000
## 153	9.158184	0.4689482	4.8787499	7.6627204	9.2420134	6.8511281	7.0355887
## 154	5.610195	1.3756789	7.1561013	5.4297934	6.8638208	6.8519189	8.3404109
## 155	6.807812	3.5035396	1.9976898	2.8047144	9.5135207	6.1921685	1.3966527
## 156	7.801979	4.7227228	0.0000000	2.9952674	9.2707331	2.1657190	0.0000000
##	rs_ACADL	rs_CXCL14	rs_MKX	rs_FGF10	rs_NTS	rs_KCNG1	rs_PITX1
## 1	2.4016305	12.824365	4.0376019	2.1463945	0.0000000	3.2582325	10.811269
## 2	1.2895984	11.758863	3.8075095	5.4937946	0.0000000	3.2182387	8.982684
## 3	4.2421528	10.117423	3.9997926	3.7868995	1.6757256	2.7766936	7.181146
## 4	0.8535167	9.383420	3.1152330	1.1442422	0.8535167	0.4889263	8.046792
## 5	1.3700527	12.115824	9.8307801	3.7314114	0.0000000	1.7558276	9.455063
## 6	6.4185880	9.480132	2.8528179	0.0000000	6.8337819	6.6222041	7.622477
## 7	5.3201597	10.458898	2.7623063	0.8248086	1.3463045	2.3901724	7.456979
## 8	4.8833422	6.732863	2.7889989	0.0000000	0.0000000	9.6921259	8.540637
## 9	0.0000000	6.283424	2.8549133	1.6220870	0.6035967	8.8134269	8.934797
## 10	1.3948982	16.811749	2.4545971	4.0428019	0.0000000	0.4930324	2.558023
## 11	3.5491640	10.066891	10.8434501	2.9432087	0.0000000	5.7331211	8.607675
## 12	2.4456473	10.797138	3.1347959	3.3598163	0.0000000	8.4609530	5.384426

## 13	0.0000000	9.503923	3.9361291	1.2537473	0.5474498	7.5107847	8.682399
## 14	1.5900990	13.134042	2.6694577	2.1214133	0.0000000	4.2036945	9.535833
## 15	0.7778720	10.093023	6.7950539	7.5753698	0.0000000	1.0509544	6.060558
## 16	2.3654686	15.289096	8.8123262	2.3654686	0.0000000	1.9141052	8.495634
## 17	0.8766446	9.059638	3.5174647	0.5039593	6.8260171	4.8994754	8.757744
## 18	3.8055092	11.815955	10.7500937	9.8978991	5.5953336	2.8296872	7.686781
## 19	7.7522736	11.627915	8.3292322	7.6008012	0.0000000	3.3861764	4.680403
## 20	0.0000000	8.158918	1.9538240	0.3644604	0.3644604	4.6519931	8.561396
## 21	0.0000000	12.713465	3.6206568	3.3043650	0.0000000	5.6390758	8.950098
## 22	2.5710214	7.253281	0.0000000	0.0000000	0.0000000	9.9317720	8.917974
## 23	0.5566992	9.290731	1.5278210	0.0000000	0.5566992	6.8150002	11.038517
## 24	0.4537546	7.853445	1.5099998	1.0764907	0.0000000	2.2314939	9.222053
## 25	8.7540834	9.314014	9.4046505	0.9762170	0.0000000	4.0423292	6.465601
## 26	3.0797877	8.928273	2.1574318	0.6158871	0.0000000	1.8728288	7.757516
## 27	3.8708381	14.817861	12.1797382	4.5605193	1.4820222	3.4174340	7.019770
## 28	0.0000000	10.875535	2.4749811	0.5002922	0.5002922	5.0588187	7.968861
## 29	1.4895943	8.990062	2.3837734	11.8553674	15.3787881	0.6805044	4.254095
## 30	4.5416573	12.664352	4.6943732	4.1165477	2.5433969	4.3965226	8.849547
## 31	1.9188823	10.245617	3.1613395	0.4826418	7.1135005	1.7587296	8.998792
## 32	1.6347327	11.119499	4.6559528	2.0558551	2.1727435	1.0374525	9.494557
## 33	5.8499317	12.141526	4.4528458	4.4759928	3.4011253	2.5751429	7.621253
## 34	5.1709786	11.184097	10.5215162	4.0289227	1.4601135	2.7423943	8.633848
## 35	8.3676703	8.629976	3.5821826	3.0562367	0.0000000	6.1769251	9.061991
## 36	1.1911204	11.746484	4.1787545	0.8918080	0.0000000	5.7560225	7.894697
## 37	0.5165195	10.676297	5.1818658	9.6266149	3.7063537	3.0562540	5.633547
## 38	1.7006617	9.291473	4.0170935	0.0000000	0.0000000	3.2386799	10.758135
## 39	1.8609231	10.264809	3.3523772	1.2117598	0.5247658	0.9088129	9.113210
## 40	5.8215980	11.157902	4.9922473	2.4583295	0.0000000	7.5636341	9.198160
## 41	6.1587450	6.472642	4.3686915	0.4088205	2.3021143	7.5196339	9.442141
## 42	2.3561156	12.005989	3.4246534	0.4589069	1.8567069	6.3088523	11.097565
## 43	0.9196833	5.510427	3.8895514	0.9196833	0.0000000	9.3386375	9.734111
## 44	2.0444641	7.948114	2.7280076	2.0444641	0.7004397	3.3310172	9.798888

## 45	5.3921663	13.008880	4.8489183	3.8743248	0.0000000	4.5515160	7.441012
## 46	5.4960916	11.879001	4.9499037	5.7518359	0.0000000	5.4120803	8.301028
## 47	4.7220834	13.289513	5.7921656	5.3961766	0.0000000	1.6397415	8.792013
## 48	2.9343278	11.984671	10.6688166	2.3346255	1.1080226	7.7582092	9.970657
## 49	2.1430342	12.550713	8.2024417	1.0969365	8.0371312	1.7127718	9.986386
## 50	4.0123988	10.908338	3.6547907	3.0154084	1.9630301	3.5396427	9.435714
## 51	0.3971458	10.035022	3.1051081	0.9639180	1.3697736	6.2132287	8.039142
## 52	2.0662959	8.656415	3.0770550	6.6452506	7.3014788	1.2193389	6.210634
## 53	0.4093638	7.199881	0.7279640	0.7279640	0.9887029	6.6214204	9.379672
## 54	0.7735744	11.769800	5.7126288	5.2028682	0.7735744	1.0456526	7.671908
## 55	2.7365832	10.481238	4.0184294	2.9740704	0.6747318	2.7365832	10.472485
## 56	1.3935809	5.309223	1.3935809	0.0000000	0.4924172	11.6040341	10.275432
## 57	5.2960389	12.678270	4.4561753	4.5481407	4.1387981	5.0350432	8.209997
## 58	0.9715895	11.843867	6.6061505	0.7143115	4.5888046	4.6267136	8.485796
## 59	1.3059705	7.698618	3.4611225	0.6681191	0.0000000	10.9086210	8.378941
## 60	0.6223682	7.180135	11.9160769	1.6588284	1.6588284	6.1953673	8.687553
## 61	4.3772904	9.022955	4.8118152	2.4764335	1.1488690	1.9026911	7.331680
## 62	7.6402565	11.660292	4.0640033	2.8541952	0.0000000	0.6721085	2.446442
## 63	0.0000000	9.776500	2.6194600	1.3922075	0.0000000	1.2351143	8.674388
## 64	4.2319392	15.716902	4.0989332	4.1333498	0.0000000	2.8491987	8.822730
## 65	2.1933302	8.184947	4.9135549	2.9768035	2.5041627	7.3258829	7.891236
## 66	1.6746866	10.064683	2.7560412	10.0859389	0.6304987	0.8656813	7.875158
## 67	4.1973071	13.610256	6.5808962	3.8421944	3.4159074	5.8835890	4.059797
## 68	2.5022797	12.009606	6.0171536	3.3689778	0.9509909	4.0489859	7.917395
## 69	2.3437205	12.493568	4.7571139	3.2293726	1.9795864	3.6752966	7.337881
## 70	0.0000000	6.929973	5.8713287	3.2650768	0.0000000	1.2498700	7.619866
## 71	2.3759013	13.556873	3.9388597	3.1602748	0.7326599	1.4669664	4.594453
## 72	2.1464271	8.009348	2.0166746	1.7158055	0.0000000	1.5380415	6.904627
## 73	4.5487695	12.649921	8.5779899	3.6540918	2.6207506	5.5417409	8.197498
## 74	2.0702176	16.623378	2.7063095	0.6614760	0.9050428	0.6614760	8.622974
## 75	5.1279758	13.493448	4.2551381	5.1410117	7.8105209	5.2168622	6.662740
## 76	0.0000000	13.323109	2.3649366	0.0000000	0.0000000	2.5622058	9.345395

## 77	9.4120287	13.904494	5.4349851	6.3204955	4.7256430	0.0000000	5.595513
## 78	1.2257068	7.478779	4.1209242	2.5072619	0.0000000	8.4787955	9.108185
## 79	8.5516191	12.662895	6.1413429	5.3466272	4.3993830	1.6144272	5.811332
## 80	0.0000000	7.623530	3.3705688	0.0000000	0.0000000	9.4303288	8.974649
## 81	8.7246230	12.670830	6.6160606	6.4326622	2.6705911	4.5808208	2.430580
## 82	8.4056648	12.737747	5.6551743	6.4464978	4.3117574	4.8273668	2.865226
## 83	2.9822178	11.109778	4.3676716	4.0813226	5.0026665	2.6574800	7.410240
## 84	3.0089171	10.265646	8.3810064	6.9386504	0.0000000	2.5755060	7.822261
## 85	1.0748479	8.230301	8.3192006	1.2528395	0.0000000	5.4185408	7.705601
## 86	0.2980717	11.160921	6.3413204	6.7992389	0.0000000	0.2980717	2.847095
## 87	3.3579883	10.487405	11.3300005	3.2618617	0.0000000	1.8654438	8.967715
## 88	0.5818815	7.820417	3.1616136	0.0000000	0.5818815	0.0000000	8.821981
## 89	0.0000000	9.040345	6.9685113	1.8010345	0.0000000	5.7770462	8.108403
## 90	0.0000000	14.217202	3.1868016	0.3257318	0.3257318	1.0094905	7.391720
## 91	3.0924781	13.285424	1.6559471	1.6559471	1.8114299	3.7214492	10.620845
## 92	0.0000000	14.141554	2.4556494	1.7622638	0.0000000	4.9497357	9.670648
## 93	1.0118534	7.510005	9.3723286	1.2359721	0.0000000	2.0177794	10.595058
## 94	3.3048761	12.201388	4.2945913	1.7190958	3.2187037	2.8108955	8.308547
## 95	0.0000000	9.384978	11.1921537	1.4095810	0.0000000	2.1087252	8.933261
## 96	0.9121900	9.184260	3.0868517	0.5270703	0.0000000	4.4413108	10.022862
## 97	1.4824869	8.414943	2.7402368	0.3774014	0.0000000	6.5407914	9.019431
## 98	1.2522945	10.585842	9.8815643	2.7067957	0.0000000	2.8519589	9.312342
## 99	1.5393822	7.312345	8.3378672	2.5277710	0.3981314	6.2296764	7.787311
## 100	0.5765705	15.922725	3.0651759	7.9202582	0.0000000	2.1502997	6.104358
## 101	0.0000000	6.966444	1.3564256	6.3737282	1.6232114	0.3335382	10.068539
## 102	0.0000000	12.552621	2.0703893	0.0000000	0.0000000	4.4724878	0.000000
## 103	0.0000000	6.597594	5.9849926	7.5862303	0.0000000	1.3552418	3.371642
## 104	0.0000000	7.656178	2.9211507	0.4716557	0.0000000	7.6997682	8.812539
## 105	0.3124328	6.122542	3.0868007	2.4839834	0.0000000	1.4290535	8.595916
## 106	0.0000000	10.504497	4.3488344	7.6866126	0.0000000	2.7945198	8.183437
## 107	4.4820093	16.753130	10.6157225	5.3758423	0.0000000	2.3161457	4.615764
## 108	0.6601985	11.101516	3.2787431	5.1858983	6.6431072	2.6376334	6.728488

##	109	3.9312576	9.384427	3.3088414	6.2106110	1.2243490	4.0524072	7.277403
##	110	0.0000000	9.433833	2.9361008	2.5001392	2.1132671	5.8468343	7.502284
##	111	0.3975839	10.084842	2.1666512	0.0000000	0.0000000	7.7597950	9.470535
##	112	2.2475630	9.283796	6.0975876	2.6814493	0.8742855	2.7722024	8.368421
##	113	0.0000000	12.368422	9.8757188	0.0000000	0.0000000	5.0340924	8.962284
##	114	1.5833747	11.784276	5.5522387	4.4127477	0.0000000	6.4013489	7.133752
##	115	4.7127883	7.402217	4.4995398	2.3795932	0.0000000	6.5373846	9.408612
##	116	1.5647196	12.146869	9.9610983	4.8119231	0.0000000	2.1985256	8.565815
##	117	1.5648171	12.755427	2.4985572	7.1621667	0.0000000	4.2380455	0.000000
##	118	0.0000000	9.126127	8.9108669	1.1694120	0.7000845	6.5556137	8.716777
##	119	4.5403001	10.252594	3.2051110	1.6114085	1.2451305	1.2451305	10.793553
##	120	0.3405053	10.541310	5.3642783	7.3542917	0.0000000	2.9855733	8.358092
##	121	3.6758949	9.722260	3.5136676	3.3308595	1.8947596	3.1947017	7.420946
##	122	2.7910013	11.125842	3.6023737	5.0155689	0.7626465	2.0477827	9.722105
##	123	2.5842169	12.508891	4.6388616	1.9468805	0.0000000	2.8923133	10.545994
##	124	2.0217995	8.518767	0.6890307	0.3852654	0.0000000	3.9145837	8.389100
##	125	0.2632748	8.333540	2.4868431	0.8487982	0.6787029	0.0000000	7.779144
##	126	0.0000000	8.384688	1.8199951	4.3205785	0.0000000	4.8071333	7.530664
##	127	0.0000000	8.763338	3.3571156	0.0000000	0.7750927	2.7420925	8.208645
##	128	1.1053428	16.520417	5.4078218	8.0715165	0.0000000	5.6991518	5.565219
##	129	2.2551986	9.041225	4.3125127	0.8786861	0.0000000	0.8786861	6.098291
##	130	7.6326623	8.452751	3.5044679	2.1082233	0.0000000	3.9140191	10.390827
##	131	0.0000000	3.361642	1.0501186	0.0000000	0.0000000	0.7771988	1.651362
##	132	3.5705965	11.384933	8.2204872	3.3420142	0.0000000	3.0702519	9.029077
##	133	1.7466137	11.547637	7.8956765	2.4111008	1.1229377	6.4030598	6.579257
##	134	3.0389804	10.449978	5.9695511	3.3680280	1.1396005	5.3364405	7.731050
##	135	1.5029925	10.793167	4.0255427	5.7019565	0.0000000	0.9390008	7.685312
##	136	0.5134907	13.215129	2.3992531	3.3793021	0.5134907	2.6159812	10.510653
##	137	0.7657893	9.899027	2.3789832	2.4729556	0.7657893	3.7284539	7.337303
##	138	4.9782506	10.102975	1.5923972	0.0000000	0.3650206	6.5006093	7.787790
##	139	0.3775125	11.153984	9.7354533	0.3775125	0.3775125	4.1000946	10.329775
##	140	0.0000000	4.251878	1.4218561	0.0000000	7.9823616	4.1187584	7.425130

##	141	5.8720506	8.835155	3.4678533	1.7720968	2.9715528	3.2409401	8.697841
##	142	1.4559650	6.273525	5.1785752	2.2736651	0.0000000	9.6972395	10.754598
##	143	0.0000000	8.105682	2.2036710	0.0000000	5.1252130	7.1014694	9.386487
##	144	0.5366498	8.659083	4.1060049	2.8694174	0.0000000	1.4865599	11.400084
##	145	4.3647265	7.086499	2.9317209	0.3654686	2.6296597	6.6168605	7.198331
##	146	0.5562087	14.141020	6.9623929	3.6734660	0.0000000	2.9231682	5.820263
##	147	2.7051596	9.746532	4.1937796	6.2565918	0.0000000	1.3058538	7.540304
##	148	6.9892571	9.319797	4.8684547	0.0000000	1.4857875	6.3043504	8.817560
##	149	0.0000000	16.884301	4.1190822	5.5592593	0.0000000	2.9447648	6.201210
##	150	0.9420077	7.257423	1.2521128	0.0000000	0.0000000	3.4158938	2.078712
##	151	3.1457264	11.231958	6.0182692	6.9432181	2.6004363	4.6902606	5.812642
##	152	0.8720801	10.657821	4.2045164	1.4117516	0.5010060	8.1163304	9.501093
##	153	0.0000000	7.425487	3.1803548	1.3426685	0.0000000	5.9910002	6.443438
##	154	3.7138278	9.243421	4.2854614	1.8285503	1.1864372	10.4824703	10.045516
##	155	1.0625362	14.757755	4.6565536	1.0625362	0.0000000	1.7863036	10.523245
##	156	0.0000000	10.514731	9.1057454	5.1240386	2.4550181	5.5025120	9.576749
##		rs_DOK7	rs_CAPN9	rs_RASAL1	rs_MAGEA1	rs_RHCG	rs_SCGN	rs_S100A1
##	1	7.0407073	7.6879376	2.8926047	1.4402081	3.3214231	1.4402081	9.299952
##	2	5.5393201	6.7341216	1.4884122	0.0000000	0.7843365	7.3437205	10.572261
##	3	8.0222840	4.1852719	3.7868995	4.1260560	2.8517191	0.0000000	7.464203
##	4	9.1956815	5.9238029	0.8535167	2.4429966	1.1442422	10.7163845	8.945981
##	5	6.4490793	3.3380678	3.2804070	0.0000000	0.4815056	0.8418926	8.804510
##	6	2.2112303	5.4779525	7.6450827	0.0000000	6.4869219	0.0000000	13.418392
##	7	2.4925711	0.4706150	7.2459386	0.0000000	7.5219914	1.3463045	8.485833
##	8	3.8641069	0.4304994	7.6431679	0.0000000	4.1163315	1.0308304	13.008714
##	9	8.0151128	0.6035967	9.5895586	0.0000000	6.8621997	0.0000000	8.145242
##	10	7.0058592	1.3948982	1.7842946	0.0000000	3.1935037	1.9455702	7.542055
##	11	7.0239229	5.1481084	2.5893800	0.0000000	3.4642500	2.0039620	6.733170
##	12	4.9378905	0.0000000	4.5152646	1.3118518	1.8457911	0.0000000	5.564701
##	13	0.0000000	0.0000000	6.0154686	0.0000000	7.0042733	0.0000000	10.635663
##	14	7.5128226	4.4447664	3.8484777	0.0000000	0.7400209	2.6694577	9.871377
##	15	8.0732531	7.8963251	1.2804813	0.0000000	0.4407396	0.4407396	10.594635

## 16	5.7193039	7.3320742	6.1050851	0.0000000	0.5474498	1.9141052	5.817012
## 17	4.8584784	2.6858953	2.7766936	1.9732072	7.9026422	1.8108132	5.347513
## 18	9.5554170	5.8264595	1.3375969	5.9112817	0.0000000	0.0000000	7.400906
## 19	3.1270059	7.5039235	3.9909004	3.5001647	1.5877010	6.4134435	7.583664
## 20	7.9734006	7.7888593	6.0179731	4.1194973	0.3644604	0.8970080	7.106446
## 21	2.0802142	8.1349027	6.9599915	0.0000000	1.1445685	1.1445685	8.741468
## 22	6.0279148	2.8435618	8.0632575	0.0000000	3.9072080	0.0000000	10.139890
## 23	3.8733309	1.7460117	0.0000000	0.0000000	1.2705887	11.6158020	5.615543
## 24	7.7946186	0.7984238	6.6339862	0.0000000	1.0764907	0.0000000	8.409133
## 25	6.3042701	8.8729460	2.3761514	0.0000000	0.4031586	1.5531147	8.918840
## 26	8.4882511	7.1535743	1.6461627	4.2758265	1.8728288	0.6158871	6.894180
## 27	7.4772556	3.9057841	4.5159836	0.0000000	2.8273313	0.0000000	8.538675
## 28	3.5579247	6.3762991	2.6754998	1.4103411	2.6754998	4.3851825	3.747946
## 29	7.4124657	6.5610313	1.4895943	2.0048968	0.3800645	3.9225594	6.836812
## 30	7.1401406	5.8724200	4.6523660	0.0000000	1.0803166	1.9898656	8.189275
## 31	8.1890684	4.9261228	1.3725621	2.3142035	8.1268578	0.0000000	6.242191
## 32	6.4129593	5.9876870	4.6357312	7.8810332	1.4617381	0.0000000	8.398706
## 33	4.0519202	5.1148709	4.7087666	0.7727302	3.3519251	4.2529227	8.779853
## 34	7.6295227	4.0671052	2.3046571	0.0000000	0.0000000	1.2100771	6.984780
## 35	4.4008385	6.7625362	4.4974846	1.9735011	2.2200203	5.5237344	7.446552
## 36	3.3194734	4.6412397	7.2150748	0.0000000	7.0710515	2.1447317	10.419339
## 37	7.4504937	7.0709056	3.1290522	0.0000000	1.4446141	3.0562540	9.890785
## 38	6.3429298	6.6959632	5.9019192	2.1295138	1.2669364	1.4264795	9.012228
## 39	0.5247658	5.5566225	8.0528522	9.3381674	1.6751836	0.9088129	5.984115
## 40	1.8355199	4.4721368	7.3977183	0.0000000	3.2248738	0.0000000	7.621242
## 41	0.4088205	3.3468293	4.2244262	4.2494909	5.7743707	2.7861154	12.937054
## 42	2.8058290	7.2402113	8.2620784	0.0000000	3.6130719	4.5296773	3.085883
## 43	1.2249664	3.1008263	8.4949995	1.2249664	8.7537957	0.0000000	14.602864
## 44	7.8381343	3.0335287	0.9542708	0.0000000	1.3576083	0.7004397	6.383815
## 45	7.2781855	7.7758091	3.3607576	0.0000000	4.8731488	2.5559143	6.810877
## 46	8.1028292	8.2115559	5.6611624	0.0000000	0.0000000	7.4540212	8.364670
## 47	2.9914629	3.0971725	3.8072313	0.0000000	3.8380542	4.0103233	10.789570

## 48	5.6552660	5.2579309	5.3425334	6.4960341	1.1080226	0.9004128	8.888385
## 49	7.4972108	7.3362146	3.9294975	0.0000000	1.0969365	1.0969365	9.229032
## 50	9.5089729	8.0782298	5.7842579	0.7173858	0.9754835	0.0000000	8.258983
## 51	7.4741610	3.9902560	7.8179526	0.0000000	10.7468198	0.0000000	9.217772
## 52	7.1772212	6.5420909	5.7153690	2.2386035	0.6147570	2.5964104	9.611670
## 53	3.5641952	6.0580480	6.3055474	1.7211539	2.5661089	5.8439763	4.437807
## 54	5.8870817	6.8033226	5.1461827	2.8847542	0.0000000	0.0000000	6.392584
## 55	8.2059178	9.5437640	7.3292061	0.0000000	0.6747318	3.9643432	9.197624
## 56	6.9620608	2.9086976	8.1380977	0.0000000	4.2089776	0.0000000	12.747631
## 57	3.4743062	7.6570311	6.4364217	1.0590783	3.8803035	7.1954372	9.747530
## 58	6.8895015	7.2406597	4.5098668	1.5469562	1.1898562	2.8888309	8.957671
## 59	1.8680941	3.5362892	7.8808985	0.0000000	6.0905465	0.3723950	11.752940
## 60	6.5218470	7.5224654	4.7918557	1.2317396	4.1692355	0.0000000	9.109954
## 61	0.9358369	3.6858729	0.3832757	0.0000000	0.6858953	11.2976732	7.117571
## 62	1.3124328	5.7096077	1.1288873	1.1288873	0.3748447	4.5393760	4.424472
## 63	7.6616064	3.0073390	1.2351143	0.3457370	0.0000000	4.1529703	6.328131
## 64	6.2378792	7.6705196	4.9635990	0.0000000	2.6732398	0.4994760	9.058166
## 65	7.4261373	1.4056657	4.1059127	0.0000000	7.5220346	0.0000000	4.939636
## 66	10.6796486	5.8375295	1.0678452	0.0000000	0.3494785	1.4029404	9.216508
## 67	5.9395463	5.4159783	5.1708584	0.0000000	2.9394335	1.8751510	8.527133
## 68	6.6290826	4.8105202	2.9130522	0.0000000	1.1662013	1.6678467	6.024067
## 69	7.1574197	4.6699622	4.2395126	3.6494890	0.5389354	0.7478600	10.109753
## 70	5.4158263	6.7569379	6.3139061	0.7562547	3.3649506	1.2498700	6.617090
## 71	7.5649474	9.2447116	2.0313246	0.0000000	1.6805944	3.8967562	7.508399
## 72	1.7158055	5.4479230	3.0418212	0.0000000	1.0992279	0.0000000	6.399116
## 73	4.1063986	1.4868173	3.6540918	0.0000000	0.0000000	0.8258670	8.115474
## 74	9.3601788	8.5928591	2.3425832	0.0000000	0.3683772	0.0000000	7.622375
## 75	5.5160750	4.3253576	5.7209898	0.7092024	5.8771995	3.7759355	9.388461
## 76	7.5704204	3.5782625	1.7068178	0.0000000	0.0000000	0.0000000	7.334430
## 77	1.6025044	0.0000000	1.6025044	1.0131406	5.5492009	5.2543295	9.359320
## 78	7.4151392	5.1621254	7.3003663	0.0000000	8.0610433	0.7392433	13.011348
## 79	2.0330882	1.0221192	0.0000000	1.8388711	5.6724253	2.7377084	7.968578

## 80	3.0551783	4.6419332	8.5035777	0.0000000	6.7417649	0.8579014	14.037954
## 81	4.3586705	0.9824369	3.3603783	0.0000000	1.5614972	5.1944259	11.773627
## 82	3.8550927	2.7734478	6.7769778	0.0000000	3.3826258	2.0507455	11.387743
## 83	5.1609081	6.6248393	2.3166961	0.8451086	0.3397075	0.8451086	8.857881
## 84	7.1811552	6.8136311	5.0942065	7.0734079	0.3346827	0.0000000	9.787949
## 85	6.3089742	0.3523066	6.7666455	0.0000000	5.1188705	0.0000000	3.994381
## 86	3.6407597	5.2193699	0.0000000	1.3819478	0.0000000	4.9462723	5.791363
## 87	9.4208064	6.2356428	5.3801649	0.4119685	1.2153058	0.9937830	8.201912
## 88	6.1200699	4.5760081	0.9953036	4.8978551	0.0000000	0.0000000	9.103109
## 89	6.5636386	7.4334636	1.1650436	0.0000000	1.4095267	11.5599113	10.409107
## 90	0.8154935	4.4938587	3.6613164	9.8862279	0.0000000	0.0000000	7.324912
## 91	7.3899660	7.0351202	7.9164050	1.0535979	0.4421208	2.4066999	11.307704
## 92	5.2510108	6.7833349	7.9225951	3.2285417	2.2891262	4.6220167	6.254724
## 93	6.9737593	3.8965044	0.4209405	0.0000000	0.0000000	0.7464848	3.991762
## 94	6.0515787	7.4482320	5.6437725	7.0562768	5.7241728	0.0000000	8.298079
## 95	3.9146315	7.6482814	3.7467535	0.0000000	0.0000000	4.9063904	7.718044
## 96	7.6868444	6.1786429	1.4667054	2.3128684	3.3590010	7.2627911	4.732052
## 97	0.6763577	4.8634429	7.9852289	3.7927408	3.6280270	0.0000000	11.321035
## 98	5.3604661	6.1941343	1.0261627	3.8556110	1.4476850	4.0785244	7.749778
## 99	4.1313425	7.0880992	3.3071516	3.3527444	0.3981314	0.9659874	6.965062
## 100	8.8906428	7.6683206	2.9779027	0.0000000	1.7893537	0.0000000	12.017573
## 101	4.9377634	8.5497158	1.3564256	0.8320393	0.3335382	0.6042611	9.133728
## 102	11.0575857	3.1043367	1.5849625	0.0000000	0.0000000	0.4854268	9.234099
## 103	6.7859507	4.2810750	1.0278618	0.0000000	0.0000000	3.0023425	5.053450
## 104	4.5263130	7.7263585	7.1708454	0.0000000	0.0000000	6.0689223	9.024508
## 105	4.9307704	0.7869309	2.0508499	3.0868007	0.0000000	0.7869309	6.468173
## 106	9.3754235	5.6988158	1.5236121	0.3923174	1.3576083	0.9542708	7.133254
## 107	7.8112199	8.1964575	3.5226333	2.0895998	0.0000000	3.2755286	10.476480
## 108	8.8583295	7.2660350	5.5587911	1.9641029	0.6601985	0.9034240	8.131518
## 109	3.7520528	2.6658021	2.4475263	0.0000000	3.2424806	0.0000000	6.900851
## 110	4.0847531	7.1502672	3.4124293	7.7021879	3.3193289	7.8818090	7.572042
## 111	1.3708896	9.4666587	3.3049782	0.0000000	2.7464633	5.2996952	11.306656

## 112	7.2299733	5.8176079	2.4807563	0.0000000	0.8742855	1.6241945	8.550938
## 113	6.4831709	4.0601771	4.6739804	0.0000000	0.0000000	0.0000000	9.109221
## 114	7.1061389	8.5067194	3.6982185	0.9987732	0.9987732	3.1133504	6.301408
## 115	1.1382247	7.3553670	5.7983357	0.0000000	2.2026998	0.0000000	11.234006
## 116	6.1061201	5.8928864	0.7248249	0.4075159	0.0000000	0.0000000	12.055800
## 117	6.7513017	6.4416843	0.3159140	1.8847151	0.0000000	7.5089879	5.462200
## 118	3.0866649	1.5229597	4.1590236	0.0000000	1.1694120	6.3051716	3.189018
## 119	5.0532678	9.2464713	6.3669639	0.0000000	0.7529198	0.4250295	8.310860
## 120	6.0197197	9.8924331	6.9600344	0.0000000	0.0000000	5.8767355	9.658735
## 121	6.3986770	2.6864333	2.5811343	0.5391340	1.4918018	3.6238201	7.018829
## 122	9.0856238	7.1145700	0.7626465	0.0000000	1.7816115	2.0477827	8.699844
## 123	6.7025163	9.1690250	4.1517939	0.0000000	0.7771988	0.4403144	8.951218
## 124	2.2243799	9.0116508	8.5765883	2.0217995	3.4726177	6.3862005	7.743795
## 125	7.5015689	8.9188024	7.2889722	0.0000000	5.3236187	0.4859420	8.464434
## 126	4.7174516	1.9828385	1.6364506	2.7877041	0.0000000	1.1797658	5.101095
## 127	7.3120552	6.1796245	2.2963693	8.2977582	0.7750927	0.0000000	6.214591
## 128	5.0673677	5.2200203	1.7237770	3.0848637	0.6559929	9.7263198	5.347896
## 129	3.4677881	5.8163872	5.1954697	0.8786861	0.5051796	1.9764736	4.613679
## 130	3.7899900	6.0974823	7.5330010	0.4997821	1.1647219	0.0000000	6.660722
## 131	8.0943707	5.5447852	3.3106600	3.2029505	0.7771988	0.0000000	7.573704
## 132	9.0097164	5.9115334	4.6898023	2.9934751	1.4547023	0.9034240	8.153704
## 133	3.8818310	3.9566979	3.8818310	8.4578265	1.3620490	2.1806571	5.668533
## 134	4.9438698	8.6247713	6.0763068	4.8264214	1.6348720	8.1757421	7.376235
## 135	2.8914386	7.3299300	3.3464605	0.0000000	0.6883147	1.9074676	8.345918
## 136	8.6027827	6.6527045	5.2060493	1.1906781	2.1441443	0.0000000	8.763274
## 137	6.5075727	5.5067733	5.1563926	2.7975111	2.5612039	0.4330663	8.736132
## 138	3.8895612	0.6561760	8.6901227	0.3650206	6.2288071	2.0591130	13.043586
## 139	2.7403232	7.0212265	2.8034957	0.6763577	0.0000000	1.7623488	8.777524
## 140	7.4391585	3.0970545	2.2564974	5.2135067	0.0000000	0.8793921	9.217857
## 141	4.1625484	0.0000000	9.5055047	2.7303356	9.1965992	0.0000000	6.655910
## 142	9.6813980	3.3313613	4.6270289	2.0489685	6.1156347	0.0000000	10.255935
## 143	1.0579701	5.0007257	9.3841526	5.9530394	7.3828427	10.1728870	11.002331

## 144	7.8161830	4.8320647	7.6448946	1.4865599	1.4865599	0.5366498	8.814423
## 145	7.7455479	0.0000000	6.7269592	7.6431679	6.4461239	0.0000000	9.916919
## 146	4.6157870	5.8322242	1.5268200	0.0000000	1.5268200	1.7449361	4.670110
## 147	9.2071200	9.3994597	6.1559232	8.0613809	0.7959331	0.7959331	10.995016
## 148	3.0361340	1.7659590	9.0196107	0.0000000	7.6842710	1.4857875	10.966505
## 149	8.1864292	9.4051970	3.4164479	0.0000000	0.0000000	0.0000000	10.950992
## 150	6.0731540	1.7238206	9.4582862	0.0000000	11.0653287	0.0000000	14.529300
## 151	4.3214014	7.5341566	3.3386383	0.5912007	0.3256167	2.1016837	8.105952
## 152	8.8743725	6.9383128	4.1380362	0.0000000	0.5010060	1.8036404	9.160532
## 153	2.3853482	6.7620458	2.8369340	4.6551171	3.2976903	1.5461166	4.098504
## 154	5.6289135	1.1864372	9.0000135	0.0000000	6.4607639	0.9685700	13.529932
## 155	9.0079002	3.2382519	1.8958842	0.0000000	0.6269530	3.5377558	5.061145
## 156	7.5908176	5.2985190	0.9973285	0.0000000	2.4550181	0.0000000	10.363111
##	rs_CITED1	rs_PLP1	rs_AN03	rs_NELL2	rs_CAPN13	rs_HAPLN1	rs_NMU
## 1	6.8341360	6.5474375	5.9097659	7.179348	9.7285707	3.0501360	0.5144000
## 2	0.4448791	4.5479125	2.4151637	4.811800	7.9332002	6.0524289	1.8188915
## 3	9.0526800	5.1450660	3.7868995	7.159161	8.5459224	3.2897017	4.2697738
## 4	2.8981890	3.8392743	1.1442422	9.609607	7.9299348	2.7329204	0.0000000
## 5	4.1080309	2.5246655	1.5757964	10.008875	9.6304502	7.5576628	0.4815056
## 6	5.0285250	2.2112303	2.0398403	5.543595	4.4767446	2.6291701	5.2011790
## 7	4.5700743	2.8420737	0.4706150	7.671391	3.9325526	6.5596172	1.3463045
## 8	3.3278454	5.2292880	2.7889989	6.863543	1.6259250	5.9507880	7.0108537
## 9	2.0416986	3.7515923	0.0000000	2.631221	0.6035967	6.8621997	6.4122192
## 10	2.9866112	2.5580227	2.2224027	11.047327	9.6444838	4.3031305	0.4930324
## 11	5.0495349	3.1201694	2.6674380	12.437580	7.7910007	5.6870215	1.8783330
## 12	2.8680941	4.3676646	1.8457911	8.274947	7.8848390	0.0000000	0.0000000
## 13	2.0808623	0.9433588	6.5721348	6.440336	0.9433588	4.6701945	2.7088935
## 14	7.3022871	5.3883514	5.6799895	4.992365	9.1884397	6.4505696	0.0000000
## 15	5.4901914	1.6525094	0.4407396	12.138733	10.1737853	7.1904647	0.4407396
## 16	7.1612024	0.5474498	0.0000000	11.922048	8.0596435	7.2773348	0.0000000
## 17	3.4080868	3.2897312	2.3731192	6.538743	8.8767119	5.2870105	4.0777813
## 18	3.2326915	10.7634618	2.2685242	6.259299	9.1757232	2.2685242	2.4807563

## 19	6.1653552	6.2868054	1.5877010	9.236685	8.3227912	2.2402838	0.0000000
## 20	1.1040682	2.8723757	2.2437300	7.713820	10.8861928	1.5906260	0.6551686
## 21	2.8986921	2.0802142	6.3947182	4.830068	10.4152605	5.9807839	1.5935928
## 22	2.7583245	2.3557493	0.0000000	3.497804	7.8837002	4.6373784	7.9500788
## 23	4.6172573	1.2705887	0.0000000	2.103028	9.0759331	11.9047527	6.1240448
## 24	3.4567667	3.3562002	0.7984238	5.856017	3.0690663	2.9360443	3.2481097
## 25	3.5410192	2.2836551	0.0000000	8.011073	10.8548994	1.7035437	0.4031586
## 26	9.1847541	5.0421890	2.7205411	2.157432	9.5995017	2.0686708	0.0000000
## 27	4.4931862	5.1759477	2.5015156	7.093614	8.5892628	4.7835771	4.3734673
## 28	3.7027351	2.1097283	0.0000000	9.681056	8.5645939	3.1498447	5.1956508
## 29	6.3533886	3.3277879	3.0413481	10.862077	9.0238641	1.6366826	0.0000000
## 30	10.2565073	6.4824982	2.4483988	6.832101	9.0739809	1.6910874	2.8709762
## 31	4.5636402	8.1572949	1.5785523	11.396660	7.7142222	5.1685297	3.5999485
## 32	3.8055504	2.4754481	8.8209068	11.814744	10.0916673	3.6121284	0.0000000
## 33	7.7597411	6.6362882	4.3563410	10.882643	9.2021897	4.0207689	2.3925372
## 34	2.5400521	4.8806268	1.2100771	7.953819	9.9013821	5.4706995	0.0000000
## 35	2.6141444	2.2200203	9.4173593	6.728095	9.2172763	0.4498519	0.0000000
## 36	4.1089342	7.3192169	1.1911204	9.211942	5.5342702	0.8918080	2.5123280
## 37	4.1873798	3.6079102	2.4072984	10.891987	10.4414735	3.9265498	5.1296004
## 38	4.6867918	1.5700743	8.6444962	5.922138	8.9772241	6.1901229	3.3222022
## 39	3.0803848	1.6751836	7.4526498	11.538949	8.7126831	3.0803848	0.0000000
## 40	1.5493242	3.7227939	3.1744544	7.843260	7.1462387	3.1221923	4.4928594
## 41	2.7158934	4.5611856	1.3995539	5.285665	2.3948982	8.8960799	1.2082675
## 42	0.8066128	4.8056330	2.2465297	9.933936	9.9049213	3.9290714	4.5757177
## 43	1.4767964	1.6911768	3.1008263	4.053468	4.1652366	5.0871021	0.5318680
## 44	4.4137362	3.5775376	2.3399355	11.090266	8.9955264	5.5431432	6.5177812
## 45	4.8489183	6.4249137	3.9215506	9.793255	8.6913817	5.1558706	5.7601331
## 46	4.8439587	3.0521724	1.4975868	9.516979	10.7209956	4.1519887	3.2859200
## 47	4.9648468	5.0981458	1.8955741	7.432166	7.4842445	8.3737935	0.0000000
## 48	5.9395581	6.1941225	2.4910578	12.097951	8.4342625	3.6501671	1.9592879
## 49	7.9534276	3.2967364	1.5816887	11.151779	10.2411281	4.1537648	0.3614315
## 50	5.5563834	5.0252282	2.5438175	5.464658	10.2962990	3.5396427	3.4574236

## 51	8.1136500	5.7861389	1.3697736	9.392538	2.8115327	5.6471072	7.9986068
## 52	6.0463666	3.6350578	0.6147570	9.687536	9.7409206	2.5315936	1.0445340
## 53	2.4838545	2.5661089	1.4009204	6.700929	10.6731583	3.0954519	4.1215874
## 54	3.4967435	2.6602669	6.0426969	13.086546	8.0301104	7.5100600	1.6455172
## 55	5.8566596	7.4423447	2.7365832	9.302164	8.8176511	2.0975097	0.0000000
## 56	1.7828279	2.8283269	0.8589358	1.601316	0.0000000	7.3975968	3.3147545
## 57	3.7700361	7.2983421	4.8120361	8.622053	8.7986102	1.2897755	2.0877683
## 58	6.7201225	6.2038981	5.9584622	6.582234	9.7516369	1.5469562	0.0000000
## 59	1.1230040	8.7999026	2.2715751	6.221577	0.0000000	2.5139960	7.7067757
## 60	3.1410240	2.5495952	2.5495952	4.749089	8.8946695	1.5300208	3.3840083
## 61	2.0155689	5.3093145	2.4764335	11.943916	10.5300089	1.9026911	0.0000000
## 62	1.4752406	4.7288674	3.5823633	7.256610	7.4104675	4.4043923	0.6721085
## 63	2.3397075	3.8885777	0.3457370	10.693133	8.3899071	8.0835288	0.0000000
## 64	3.9904557	3.3945004	3.3365976	5.241173	10.7596606	3.5037812	0.8698714
## 65	1.7966393	3.0741971	2.2775385	6.768632	8.8196302	2.9768035	5.4190028
## 66	1.4029404	3.4049440	0.6304987	9.770875	8.1179397	3.3282908	0.6304987
## 67	11.3947097	7.4820835	2.9394335	5.746899	7.5682792	2.9394335	0.0000000
## 68	7.2406750	5.1124333	0.9509909	9.827578	9.6854847	4.4072372	0.0000000
## 69	6.8780068	6.7071838	3.8888309	9.085727	7.7797194	1.9795864	4.9491287
## 70	3.0418562	1.0240359	4.8534069	11.662270	8.9575240	8.7141328	3.5460795
## 71	4.8474959	4.1861360	2.1071187	10.004876	9.0081345	1.5777309	1.7765673
## 72	2.6625018	3.5438175	0.8168864	8.684785	7.8326445	7.6586849	0.0000000
## 73	1.3477790	5.1183930	1.8380643	9.715644	0.5994130	0.8258670	4.3805909
## 74	2.4230403	3.2380378	1.1133671	11.777979	9.0140141	2.5716040	4.3151532
## 75	11.0401266	6.4169140	3.2587300	6.328497	8.2903115	1.5384388	1.1825652
## 76	2.8152270	4.0420489	0.0000000	5.867004	12.4093919	5.4225930	0.0000000
## 77	1.8261112	8.4227330	8.3276191	6.338761	2.6068212	3.4160425	0.0000000
## 78	2.4197276	4.4649492	1.2257068	3.175061	4.8300068	6.3922951	1.5888046
## 79	1.8388711	8.7477432	6.0090358	3.563732	1.0221192	1.6144272	0.0000000
## 80	4.2382901	3.3705688	1.3922625	3.370569	7.0422208	5.1005404	2.6509483
## 81	7.2686599	8.1863594	7.1547219	6.104712	6.6792380	0.5732776	0.0000000
## 82	7.6879621	7.2163132	6.0854714	5.170915	6.2044459	1.2308793	0.0000000

## 83	3.7524061	4.5256555	1.5151069	11.520400	9.6877823	5.1715711	3.4708752
## 84	2.4432353	2.9613455	2.7536259	8.087560	10.0244056	6.7865898	0.0000000
## 85	1.4113178	4.6635154	5.8298064	11.020143	2.7076352	6.7956735	6.2046181
## 86	3.0203066	1.6159812	0.2980717	12.656123	10.2547257	3.7431918	0.0000000
## 87	6.7291340	4.4906022	1.7282688	8.529326	8.3727314	7.0210688	0.0000000
## 88	2.4517782	2.6925388	6.4001536	10.305810	10.8384983	3.5150312	0.5818815
## 89	4.1346235	4.8031185	0.4998841	9.712128	7.7709202	6.1494728	0.0000000
## 90	8.9452267	0.5912964	7.9045859	7.436712	9.6807242	3.2263852	0.0000000
## 91	2.4066999	2.8268840	1.9517370	6.351807	9.0650127	5.8671107	4.8017484
## 92	4.5501742	1.1350094	7.8098337	8.263129	8.0155550	4.7070609	2.1980226
## 93	3.8633042	2.6046881	1.2359721	10.741584	6.7005396	1.6007455	8.0103340
## 94	3.5001902	7.0624758	6.6865804	6.949956	9.1032802	2.4814281	5.1796544
## 95	2.2825288	3.7467535	8.4442844	6.454388	6.1964516	6.1297570	1.0734090
## 96	3.0868517	3.0868517	0.5270703	5.215648	9.2598854	3.0868517	4.2869255
## 97	3.0315716	0.3774014	2.1008095	7.924372	4.6043916	6.9178649	2.5322421
## 98	4.0182692	3.3196324	1.0261627	12.020192	8.1356323	6.2800358	0.0000000
## 99	2.6051624	2.3592963	0.7098200	4.774861	9.5738416	6.2050308	0.3981314
## 100	11.4184404	0.9873936	2.1502997	7.179454	9.0448790	7.3842519	0.0000000
## 101	2.2144668	4.3395507	8.1282707	7.927142	11.2162326	0.6042611	0.3335382
## 102	4.6667566	1.7655347	1.1375035	10.648358	9.7431514	5.5909612	3.1699250
## 103	1.9475166	0.3330802	0.0000000	7.562639	10.6142437	8.2933673	0.0000000
## 104	1.7313570	3.1892553	1.5527213	10.779985	11.1264172	4.8884218	4.6200468
## 105	1.7731946	0.9761436	0.7869309	6.507046	9.9857520	5.1030612	0.0000000
## 106	2.7280076	4.2808747	1.1699891	10.477238	9.6378696	6.0849189	0.0000000
## 107	3.2205931	1.6648924	1.6648924	8.469610	9.9844088	6.3898318	2.7631991
## 108	7.1617214	2.3398215	1.9641029	10.118269	8.8628323	4.5268826	2.8843635
## 109	3.8884997	4.6470900	4.3008778	6.974248	6.9995818	2.5607883	0.0000000
## 110	2.8719816	0.9985566	6.1670829	9.221124	10.1992438	5.0846638	4.5620226
## 111	3.5974239	3.1589025	0.3975839	6.215034	8.0753096	2.9377963	3.4792694
## 112	6.3319649	4.8943813	0.8742855	11.799809	7.4725812	0.5023306	4.6044272
## 113	1.5900031	2.3279460	6.0386249	9.986796	9.6660809	1.3831651	0.0000000
## 114	2.2205157	2.1136338	1.7353055	12.415275	9.9337472	7.0601112	3.5421218

## 115	1.4863025	0.6786128	1.1382247	5.344722	6.9900200	5.4475726	2.9271759
## 116	2.4774701	0.9848445	7.5646518	6.007104	9.9343991	6.4347800	0.7248249
## 117	7.3185799	3.3648946	1.3038100	11.370555	11.0986386	5.5627553	1.3038100
## 118	7.0799231	0.7000845	1.1694120	6.872551	8.0200821	5.2891410	0.0000000
## 119	5.4760284	3.6994073	1.7647283	10.735018	10.5202858	1.7647283	4.0960763
## 120	3.1241461	2.2407417	0.3405053	8.531036	9.9077052	5.0063833	2.4659484
## 121	1.2383589	7.6914581	8.3916462	10.524673	8.3074891	3.8672145	2.2093910
## 122	3.0556122	5.3347899	1.4549655	8.545674	10.8696217	4.8159647	0.7626465
## 123	3.3107764	3.6756353	2.6676197	10.020873	8.6401205	5.4420643	2.8923133
## 124	1.7860526	2.5601035	0.6890307	6.488105	8.2952239	2.1266425	0.6890307
## 125	6.9062015	1.4865599	7.3182292	7.765932	9.8516046	4.8496691	5.1309638
## 126	4.0537109	3.6309645	7.0509794	7.952784	9.2932052	1.4261037	0.0000000
## 127	1.4742024	0.4390380	0.7750927	6.030616	9.3475873	2.2963693	1.8030617
## 128	2.6936765	1.8443455	0.3650206	11.183730	10.0037887	5.5652194	1.8443455
## 129	1.4207788	3.3540713	0.0000000	10.824108	8.0913116	6.5495490	7.2030700
## 130	1.9626231	0.0000000	0.4997821	6.718573	6.9095043	4.0282332	4.8025448
## 131	0.7771988	1.0501186	1.4773665	5.033996	11.4364623	3.1459220	0.0000000
## 132	5.5453754	7.1276663	7.3363325	7.280883	9.7615655	7.0633929	6.4530862
## 133	2.8643149	4.4468385	1.1229377	9.035496	7.8099295	4.3939378	2.0499792
## 134	3.1408932	4.0035932	1.4878979	8.811175	9.2564873	5.4199029	0.0000000
## 135	5.6325300	1.7847971	8.3807394	8.864172	10.5110307	9.1209980	1.3383388
## 136	4.3390661	3.0475558	0.8914970	6.689025	10.5102306	3.6972067	0.0000000
## 137	4.0666317	5.7884691	3.0622772	8.734947	10.6410929	6.3430898	0.0000000
## 138	3.6122935	0.8982471	0.3650206	1.592397	6.0333701	1.9558335	6.4058086
## 139	1.6292400	2.9779210	6.1061787	7.251029	7.1237831	5.2167226	4.7398265
## 140	4.3442249	0.8793921	6.2821840	4.539171	8.8724416	0.8793921	7.3822090
## 141	4.9061931	2.7303356	5.0179664	4.316225	5.3381570	7.5805880	6.3561068
## 142	3.4740076	0.7633266	3.0569650	4.904017	10.1760083	5.2060884	5.9546314
## 143	6.1119369	12.1352927	3.3753175	6.999434	9.0011424	5.0643138	6.6096205
## 144	1.4865599	0.0000000	2.3377111	10.850899	8.7142912	4.9205744	0.0000000
## 145	2.0603587	5.1059713	1.1064153	7.791323	3.8628084	2.8183598	7.8081218
## 146	2.1018517	3.8247984	0.9565771	10.742820	8.9385560	7.2433397	0.0000000

##	147	5.6636776	3.7564896	1.9799156	8.150046	8.7100439	1.5060941	4.0408574
##	148	2.0004327	7.9313119	1.4857875	10.746755	0.6782522	7.1982810	2.6785677
##	149	5.1989223	1.8501593	4.4734752	14.060272	9.7375906	4.0559158	1.5165195
##	150	2.4870232	0.9420077	1.7238206	1.723821	6.6641216	7.6701010	0.0000000
##	151	5.8384098	7.3176252	2.3367975	5.197956	9.9049966	2.4073528	3.6019817
##	152	5.4787098	2.5806038	7.3442755	3.217727	8.1567682	4.4156843	0.0000000
##	153	4.2805778	1.8829951	7.2726261	3.852219	10.5328983	4.5875870	5.9557266
##	154	6.4290719	7.8986510	2.4504063	5.860399	3.9702095	6.7228103	2.7530910
##	155	2.6877102	3.2382519	1.3966527	5.834458	8.8007657	9.2827486	4.0690577
##	156	2.3176224	1.5813512	4.7227228	6.194345	8.9988310	8.0979073	4.6386705
##		rs_EMX1	rs_GPRIN2	rs_C19orf21	rs_CSN3	rs_C2orf82	rs_GABBR2	rs_PLA2G3
##	1	7.6998771	4.9929995	11.5888856	1.4402081	2.1463945	1.1923204	6.8287090
##	2	1.0590091	5.4937946	10.4147628	1.2895984	0.4448791	0.4448791	5.2690294
##	3	1.5002922	2.3287790	10.2346269	0.4497462	1.6757256	2.2197106	1.0686020
##	4	4.3191265	3.3038392	9.5299679	1.9350825	1.3860936	0.0000000	0.4889263
##	5	4.8043324	6.8116149	9.8892087	0.0000000	0.8418926	0.0000000	3.4469046
##	6	0.0000000	7.6262697	1.8453495	18.2317808	4.9580538	7.6928798	0.0000000
##	7	1.5500634	6.3368243	4.9217077	9.9854529	2.2799170	2.2799170	0.4706150
##	8	1.2575538	8.1088313	7.1122362	1.2575538	0.7617108	11.4409216	0.7617108
##	9	0.0000000	9.1519450	5.9247650	4.3003947	2.3663642	4.9114375	5.5619310
##	10	3.6331522	1.9455702	10.2883375	1.1519887	0.0000000	0.0000000	4.0428019
##	11	7.0386820	3.8794117	10.5883789	1.0026665	1.0026665	1.2253983	0.0000000
##	12	4.6703078	4.1134005	9.0923555	0.0000000	2.6297063	2.7136298	0.0000000
##	13	0.5474498	5.9842544	7.3649217	0.5474498	0.0000000	4.9325006	0.9433588
##	14	6.2868386	6.9423257	10.2942666	0.0000000	6.1841970	2.3280897	0.7400209
##	15	7.6153508	9.0829822	10.0740201	1.0509544	0.4407396	0.0000000	6.7430679
##	16	7.7643953	3.7505636	10.8143606	0.0000000	0.5474498	0.5474498	5.4414503
##	17	5.2076274	2.9427960	11.0244054	0.0000000	0.8766446	1.1726155	1.4180280
##	18	3.9191017	2.6657566	10.4942454	0.8186052	0.4665488	2.4807563	3.4498915
##	19	3.7662983	7.3927081	8.0508189	1.4431823	3.7355980	0.0000000	2.4814023
##	20	3.6761884	7.2024706	10.4046147	0.0000000	0.6551686	1.8426169	0.0000000
##	21	3.2441868	0.8537562	9.0313511	0.0000000	0.4891319	0.8537562	0.0000000

## 22	0.4976379	7.3438502	6.0187810	0.8668684	0.0000000	3.9072080	4.1936298
## 23	0.5566992	5.3078256	9.9639991	1.5278210	0.0000000	2.1030276	0.0000000
## 24	0.0000000	7.8465109	3.1312602	3.3562002	3.2481097	6.3951297	1.9843706
## 25	0.4031586	3.7281491	10.4371888	0.0000000	0.7179122	0.4031586	5.4449354
## 26	1.0461418	1.3771237	10.1165848	0.0000000	2.9859375	1.3771237	0.3405053
## 27	0.0000000	5.3635986	9.7086089	0.0000000	2.4071352	0.0000000	4.5159836
## 28	2.5787214	4.3851825	8.0835277	0.0000000	0.0000000	2.6754998	0.8710551
## 29	2.5414405	3.6727534	10.3347325	0.0000000	0.0000000	0.3800645	3.5666812
## 30	0.8015726	6.3960430	8.5482944	3.0105292	4.6090930	1.8481973	3.2546847
## 31	6.7479915	3.3417865	10.6067159	0.0000000	0.0000000	0.0000000	1.7587296
## 32	4.9127840	2.8001026	10.8109239	0.4339209	0.4339209	0.4339209	3.8055504
## 33	5.3206868	7.6055943	5.6302278	2.4867144	1.0445340	1.0445340	4.5650427
## 34	4.5167338	4.5440649	10.1049429	1.8587767	0.5238630	0.0000000	1.8587767
## 35	6.1097178	3.4912374	7.9455474	0.0000000	0.0000000	0.4498519	1.6759965
## 36	0.5137939	7.5039489	4.9515552	0.8918080	4.3994993	7.8337851	5.2067995
## 37	0.8960781	5.0753743	10.6390050	0.0000000	5.4034688	1.4446141	2.4072984
## 38	1.9309644	2.2194009	10.7095209	0.0000000	0.8827604	0.6439485	1.4264795
## 39	0.9088129	3.4712785	7.9127912	0.0000000	1.2117598	0.0000000	6.5068272
## 40	0.4017397	9.7807246	8.9302456	0.0000000	1.1918784	7.4516455	2.1802752
## 41	0.0000000	6.5753502	3.3925647	0.4088205	5.0056919	1.5684700	2.7158934
## 42	0.0000000	8.2514791	8.4683723	0.0000000	0.4589069	2.7264171	0.0000000
## 43	0.5318680	10.2693253	6.3833380	0.0000000	2.0429244	7.8068119	0.0000000
## 44	5.8934132	4.0553866	8.8844737	0.9542708	2.0444641	0.7004397	1.9308130
## 45	4.4901786	5.2513896	10.8273489	0.0000000	0.5733745	1.3010608	0.0000000
## 46	1.4975868	4.8068447	10.3875447	0.0000000	1.4975868	1.2980131	6.8566135
## 47	3.7106026	4.9366474	9.7453644	0.3810618	0.3810618	0.6822137	0.0000000
## 48	4.7235968	7.8975563	10.9157414	0.3661403	5.8118409	4.0779180	4.1264526
## 49	2.9162855	4.3876176	9.7232314	0.0000000	1.2772111	0.0000000	3.9022859
## 50	5.0674150	5.9662136	10.4276044	0.0000000	2.6213838	3.6547907	0.0000000
## 51	0.0000000	7.7600845	6.9312020	2.6016252	4.1273526	5.4727932	0.3971458
## 52	3.4369613	5.1295468	10.0385677	0.0000000	0.3399355	0.0000000	0.8455904
## 53	1.9830209	2.2046103	6.6499861	1.2095158	0.9887029	2.4838545	0.4093638

## 54	6.2519198	6.5095518	9.8469184	0.0000000	1.0456526	0.7735744	3.4030904
## 55	4.0184294	6.1750894	7.5700682	0.0000000	2.1946544	0.0000000	0.3765127
## 56	0.0000000	10.1174423	7.3004111	0.4924172	1.7828279	6.2682491	2.0890574
## 57	1.9596589	7.6257103	7.1484593	9.3267757	6.7919300	2.3142035	4.1089091
## 58	0.7143115	7.0859801	9.8078879	0.7143115	1.5469562	1.6970176	7.4559979
## 59	0.0000000	10.2087332	9.1951687	0.3723950	9.2905235	5.2066706	2.8448878
## 60	0.0000000	1.8863941	11.2540677	0.0000000	0.6223682	1.0557510	6.8054073
## 61	6.8394621	3.5043280	8.5544062	0.0000000	0.9358369	0.0000000	0.9358369
## 62	0.3748447	2.1892236	7.7635736	0.3748447	0.0000000	2.7937503	0.0000000
## 63	2.2603870	2.7985897	9.8829479	0.0000000	2.0873271	0.0000000	0.0000000
## 64	0.4994760	6.0524659	9.8290318	0.0000000	2.3610384	1.8000819	0.4994760
## 65	0.3503841	5.4465474	8.1151462	0.0000000	0.0000000	9.6773905	6.0948547
## 66	3.4049440	1.2450697	10.1999140	0.0000000	0.0000000	0.8656813	0.0000000
## 67	1.0005049	8.1268025	6.4712720	3.1163315	3.9077848	2.2231445	0.0000000
## 68	7.3016782	5.3176441	8.7748770	0.0000000	2.7886857	0.3907777	4.0489859
## 69	5.5326255	7.2157262	7.7420655	3.4245594	5.6082415	0.7478600	0.9303967
## 70	0.4270698	0.4270698	9.7806887	0.0000000	0.0000000	0.4270698	3.0418562
## 71	0.0000000	6.9395416	11.0957085	0.0000000	0.0000000	0.9124199	0.0000000
## 72	2.3754287	3.1694440	9.3072484	0.0000000	1.0992279	0.0000000	0.0000000
## 73	0.3305584	6.9732198	5.7424563	0.0000000	0.3305584	5.5810800	0.0000000
## 74	2.9965334	2.2574029	10.6759237	0.0000000	0.6614760	0.0000000	7.2585500
## 75	1.3714473	7.4613820	8.3106487	4.4563068	7.1589106	0.0000000	3.5205731
## 76	7.4353927	2.5622058	10.0238903	0.0000000	0.4619476	0.0000000	0.0000000
## 77	0.0000000	3.1106138	1.0131406	0.0000000	0.5937840	0.0000000	0.5937840
## 78	2.8794705	9.0610539	8.4841986	0.0000000	6.5082195	8.8975539	1.5888046
## 79	0.0000000	1.3484591	0.5997939	0.0000000	0.0000000	0.0000000	0.0000000
## 80	0.8579014	9.8528932	8.5051919	7.7703342	6.0965929	7.5597319	0.0000000
## 81	0.5732776	6.0944472	4.4580932	0.0000000	1.3008266	1.9735745	2.6705911
## 82	1.2308793	8.0303366	4.6580915	0.0000000	3.8550927	2.3337958	2.0507455
## 83	4.1258742	8.0606646	9.1074020	0.0000000	0.8451086	0.6143800	0.0000000
## 84	3.3784423	5.5770148	9.8823676	0.0000000	1.3598585	1.0316775	5.9982926
## 85	0.8717648	10.7043329	1.5540485	0.0000000	1.2528395	7.6450827	0.0000000

## 86	6.5106297	0.2980717	9.7247055	0.0000000	0.0000000	0.2980717	0.2980717
## 87	2.4922634	6.5826268	10.7713743	0.0000000	0.4119685	0.0000000	0.0000000
## 88	1.5787455	0.0000000	9.5989197	0.0000000	0.0000000	0.0000000	7.2386417
## 89	6.0980700	6.1325419	8.0098588	0.0000000	1.1650436	0.0000000	0.0000000
## 90	0.8154935	1.8209346	8.9847161	0.0000000	0.8154935	0.0000000	6.3451639
## 91	3.5553867	7.0547063	10.4394092	0.0000000	1.6559471	2.1970791	5.1318528
## 92	4.7873698	1.3191555	9.0700761	0.0000000	0.3774014	1.9965334	0.6763577
## 93	5.2960499	8.2539789	8.8016602	0.0000000	1.4298570	0.4209405	0.4209405
## 94	4.9039927	8.4641332	9.0093433	0.0000000	2.0537717	0.0000000	1.2825584
## 95	0.0000000	6.4314959	7.8395307	0.0000000	0.3517414	0.6343145	1.0734090
## 96	0.9121900	3.5878570	11.2856478	0.0000000	0.5270703	0.9121900	0.5270703
## 97	0.0000000	7.2136214	7.2622076	0.0000000	7.1812894	7.2565757	0.9237957
## 98	5.9896658	2.9838418	10.3314672	0.0000000	0.4281424	0.0000000	2.5453754
## 99	3.0546922	0.3981314	9.9051066	0.0000000	0.3981314	0.0000000	0.0000000
## 100	2.4387719	2.3017340	10.7772413	0.0000000	0.5765705	0.0000000	0.0000000
## 101	2.3677065	2.2144668	9.8280292	0.0000000	1.0287813	0.8320393	6.5442334
## 102	3.3504972	1.3785116	11.0913031	0.0000000	0.0000000	6.1085245	4.7970130
## 103	5.1828790	7.1658858	10.0103737	0.0000000	0.0000000	0.0000000	6.6619163
## 104	3.5642074	8.0859477	9.6979173	0.0000000	1.7313570	1.1111649	0.0000000
## 105	0.0000000	0.7869309	9.9694898	0.0000000	0.7869309	0.3124328	0.0000000
## 106	5.6547477	2.5850587	10.8164464	0.0000000	1.1699891	0.9542708	1.5236121
## 107	1.4901080	6.4145178	10.8792135	0.0000000	1.8207712	0.4455148	6.7561813
## 108	5.7023805	2.8843635	10.3859762	0.0000000	0.0000000	1.8525982	1.2933116
## 109	3.0998338	4.5948590	8.0386145	0.9191494	2.0420840	1.2243490	0.9191494
## 110	5.2066471	1.2207633	10.6662996	0.0000000	0.7357821	4.8716860	0.7357821
## 111	1.9468431	6.3502108	8.8965477	0.0000000	1.6874191	2.9963345	4.2054864
## 112	6.2395508	5.3861419	8.8650258	0.5023306	4.6767018	1.4147309	3.4033086
## 113	5.1365893	5.9190874	10.5320582	0.0000000	0.0000000	0.0000000	0.0000000
## 114	4.7165081	8.1422643	10.8776924	0.0000000	1.2210109	0.7360420	0.9987732
## 115	0.0000000	8.3160385	6.3482855	0.0000000	0.0000000	3.0368022	2.3795932
## 116	4.6711688	5.5041882	9.6895419	0.0000000	0.7248249	0.0000000	4.0588187
## 117	1.3038100	2.8318772	10.1873445	0.0000000	0.7944367	0.0000000	0.5749250

##	118	4.6284937	3.5383395	9.7064589	0.0000000	0.0000000	1.5229597	1.1694120
##	119	2.6963277	7.2224761	8.6541333	0.0000000	0.4250295	1.0199154	3.4508945
##	120	1.5176284	6.6286351	9.8729082	0.0000000	0.3405053	0.3405053	5.6735536
##	121	1.4918018	4.8169171	10.4471933	0.0000000	3.0443417	3.3944044	0.0000000
##	122	6.9817260	4.1185425	10.4314710	0.0000000	1.7816115	0.4311415	2.1644645
##	123	5.0956502	5.1546642	9.5903550	0.0000000	0.4403144	0.7771988	3.1460360
##	124	0.3852654	5.6780437	8.2480713	0.6890307	0.3852654	0.0000000	8.3665325
##	125	1.2640560	1.1384213	10.5702573	0.0000000	0.2632748	0.6787029	0.0000000
##	126	1.8199951	2.2619219	10.1151584	0.0000000	0.8825257	0.5077185	4.8915601
##	127	3.9284651	4.0261804	9.8538326	0.0000000	0.0000000	0.0000000	0.0000000
##	128	5.9682037	1.5922059	10.9976119	0.0000000	0.8980922	5.8435618	0.6559929
##	129	0.0000000	5.6212636	10.0761740	0.0000000	0.0000000	0.5051796	0.0000000
##	130	0.0000000	5.4745918	10.1680948	0.0000000	0.0000000	1.6181447	3.3951862
##	131	0.4403144	0.4403144	12.5124685	0.0000000	0.7771988	0.0000000	5.4419382
##	132	3.9413975	7.5185965	5.3893293	1.6673018	5.7691158	1.6673018	0.0000000
##	133	3.5841568	2.1806571	9.1456036	0.8360857	2.4111008	3.0806236	0.4777809
##	134	1.3242346	5.9130569	9.8561975	0.0000000	0.9278206	0.9278206	5.5273081
##	135	5.6676623	2.7010832	9.9261092	0.0000000	0.0000000	0.0000000	5.6676623
##	136	4.4277134	3.8332443	10.9331403	0.0000000	1.1906781	0.0000000	0.0000000
##	137	4.3894291	3.4795022	10.5547340	0.0000000	0.7657893	1.7870145	3.7284539
##	138	0.0000000	8.7199836	6.1314351	0.0000000	2.1554902	6.3508844	0.8982471
##	139	1.3192133	4.1495602	7.7925320	0.0000000	0.0000000	0.0000000	7.0956681
##	140	0.0000000	0.0000000	10.5737322	0.0000000	1.8151245	2.9480401	5.0766275
##	141	2.0774481	2.5437186	6.7452400	2.8152885	0.8521587	0.4881036	6.9563866
##	142	3.8328698	6.0863210	5.6078895	0.0000000	2.0489685	2.9307184	1.6285870
##	143	0.0000000	11.0381538	3.9473015	1.8174595	2.0860704	0.4443490	0.0000000
##	144	4.7131954	7.4128450	10.2666787	0.0000000	0.0000000	1.7016821	0.0000000
##	145	0.8990209	8.1559910	7.1434985	0.3654686	2.2471680	4.4622814	3.0866139
##	146	2.3877210	1.2696915	8.5649291	0.0000000	0.9565771	1.7449361	0.0000000
##	147	4.8006566	4.9796230	10.1855229	0.0000000	0.0000000	0.0000000	0.0000000
##	148	1.4857875	7.1195139	6.9122642	0.0000000	4.4200916	7.9206298	6.7203031
##	149	7.8354965	3.5136802	8.5073665	0.0000000	0.0000000	0.0000000	0.0000000

##	150	1.9121516	7.6959695	0.5465611	3.8893275	7.1632038	0.9420077	6.7219208
##	151	0.5912007	6.2179790	9.4337440	0.0000000	2.2625835	0.0000000	0.0000000
##	152	3.3989933	0.0000000	11.3035933	0.0000000	0.5010060	2.5806038	0.0000000
##	153	1.1058122	2.6728553	10.2850132	0.0000000	1.1058122	5.6373726	0.0000000
##	154	4.4418619	9.9374993	8.9746251	0.0000000	10.3384912	8.3699227	0.9685700
##	155	6.5473511	3.6975959	8.7414565	0.0000000	0.0000000	2.1820248	0.8610819
##	156	2.9022087	4.5494166	8.9312490	0.0000000	0.9973285	1.3186928	0.0000000
##		rs_CLGN	rs_MYOC	rs_GPR26	rs_VWDE	rs_ACTA1	rs_C4BPA	rs_MAOB
##	1	7.0122636	0.5144000	0.0000000	6.1722275	3.3819616	1.4402081	9.870020
##	2	10.3383450	0.7843365	0.0000000	5.4704816	2.7609448	1.8188915	9.315944
##	3	9.4177359	5.7063012	0.4497462	3.5370599	4.6729062	0.0000000	8.973005
##	4	6.5759537	1.7742494	1.5931625	5.9333578	3.1808798	0.8535167	6.911871
##	5	7.5393434	0.0000000	2.3109217	1.3700527	2.7955384	0.0000000	12.242841
##	6	5.7100763	0.6028369	2.0398403	6.4359769	2.9528367	4.2980864	8.797608
##	7	2.9176418	1.5500634	6.0732290	2.2799170	2.2799170	6.1613758	9.335834
##	8	3.5582431	0.7617108	1.9191112	6.8933901	2.1626612	0.7617108	6.464041
##	9	2.0416986	0.6035967	1.0279325	1.0279325	3.6948356	0.0000000	8.547031
##	10	7.3135814	2.6545272	5.5805284	0.4930324	3.8524683	0.0000000	10.748437
##	11	6.9863495	2.1195554	1.0026665	3.0635547	1.5885168	1.5885168	7.953645
##	12	0.0000000	1.6888070	1.3118518	1.9873936	1.0785415	0.8001648	8.083214
##	13	2.3656086	0.0000000	0.0000000	3.5941305	2.6032881	0.5474498	6.393583
##	14	5.1367779	2.3280897	3.1767855	4.3050074	6.4615842	6.5570960	13.142087
##	15	8.9019409	1.2804813	1.2804813	0.4407396	2.8936340	2.1931409	13.995780
##	16	6.1147252	0.0000000	0.0000000	0.0000000	0.9432837	0.0000000	11.583042
##	17	12.6486161	1.4180280	4.1811423	1.1726155	3.0191681	3.9273276	12.912990
##	18	6.6804017	1.8768803	3.6821912	6.2228857	5.7363343	0.0000000	10.031796
##	19	6.8884535	2.5536063	1.5877010	2.0537369	6.1825314	7.1725645	11.345617
##	20	8.1933213	0.0000000	0.8970080	4.2559539	7.8000651	0.0000000	12.421005
##	21	11.0002973	0.8537562	6.4689009	3.3043650	5.9528554	2.0802142	10.699565
##	22	2.9240619	0.0000000	0.0000000	4.4047124	4.1607831	4.1271793	11.951817
##	23	0.0000000	1.7460117	5.1445848	5.3748447	4.0477652	0.0000000	2.627490
##	24	9.1058844	0.0000000	0.4537546	3.7221818	5.9278491	2.3407901	11.745056

## 25	9.5777670	0.0000000	2.8969499	1.9641398	5.1232772	0.4031586	11.681773
## 26	10.5006940	0.6158871	0.0000000	1.2210728	1.6461627	1.8728288	7.109749
## 27	6.9752255	1.6563133	1.2837440	4.6456786	3.7983098	3.5558652	12.237673
## 28	4.5727624	0.0000000	0.8710551	1.8019864	2.3631991	0.5002922	12.565661
## 29	7.3551996	0.9291092	12.9600524	5.9012193	2.0048968	0.0000000	8.896458
## 30	8.2782826	5.4130727	1.6910874	7.7555666	3.4634394	6.1912488	11.056704
## 31	2.6241711	0.8437427	4.5143306	0.0000000	3.1613395	3.5999485	9.246333
## 32	9.5099139	0.4339209	2.2808376	1.4617381	1.9286546	0.4339209	9.562410
## 33	8.6472037	4.2529227	1.7989215	5.2282800	2.3925372	2.8118820	11.289209
## 34	9.0883775	1.2100771	1.2100771	6.4178677	7.2484096	2.6447562	12.977758
## 35	10.8097676	1.5005471	1.8324040	3.7872653	3.4435138	4.5434835	9.996460
## 36	4.6412397	3.6979183	5.7445567	6.1441524	0.0000000	2.1447317	10.219034
## 37	6.8356172	0.0000000	3.5022669	4.0441493	1.1962293	6.6377754	10.122927
## 38	6.0254364	0.0000000	0.0000000	4.7333055	4.3108999	0.3576083	5.981152
## 39	10.4861518	0.9088129	0.9088129	1.4620000	1.6751836	0.5247658	7.943970
## 40	7.0054988	2.3714752	1.1918784	5.9470489	2.3714752	0.4017397	7.533943
## 41	1.5684700	0.0000000	1.9814143	6.8742424	1.2082675	1.8564679	5.609888
## 42	6.1197753	2.2465297	1.6991962	0.8066128	1.6991962	5.9726605	7.350271
## 43	3.4340677	0.9196833	5.6578486	0.5318680	2.3255303	1.4767964	7.050070
## 44	10.1676092	0.7004397	0.3923174	2.9773715	3.4999479	1.6725159	9.059457
## 45	7.9018625	6.9540427	0.5733745	4.0963799	4.0116119	2.2940472	9.873509
## 46	7.8087396	0.0000000	3.1737831	5.5419887	7.5413530	2.4267478	12.372915
## 47	5.6166312	1.6397415	0.9312292	2.3015584	3.0971725	0.3810618	11.784225
## 48	7.6831406	0.6578229	3.5469809	4.0530244	6.1360499	6.2499478	10.890058
## 49	9.4600524	0.6503050	1.0969365	0.6503050	1.9438838	0.0000000	10.478161
## 50	7.0558865	3.4574236	3.4991188	2.6213838	7.4950755	1.8386291	10.414045
## 51	4.7874325	0.0000000	0.0000000	9.2496617	5.3548753	0.3971458	8.210966
## 52	10.5585864	3.2481705	1.7617533	0.8455904	3.6350578	2.8828778	9.525363
## 53	7.4423514	0.4093638	0.4093638	7.7030945	1.5698799	0.4093638	7.682502
## 54	8.1788167	1.6455172	5.9042770	1.2744704	4.6510058	1.2744704	14.750531
## 55	10.0116548	0.6747318	0.6747318	3.6585428	0.6747318	1.3166092	8.146438
## 56	2.3415019	0.4924172	0.0000000	5.8869744	7.7885396	1.1508846	6.363995

## 57	8.8389997	3.9493949	9.9031190	5.3735055	1.6632535	5.3860211	11.283675
## 58	9.4385436	0.4008658	0.4008658	7.0127173	2.6147805	2.6147805	11.389367
## 59	5.1115655	0.0000000	0.0000000	7.0124189	6.6431534	0.0000000	7.605699
## 60	7.6127012	1.0557510	0.3444877	3.3840083	4.9000698	0.0000000	7.342375
## 61	7.9672735	1.9026911	10.0988747	6.8810320	0.3832757	0.3832757	12.484928
## 62	11.4208793	0.3748447	4.1388145	3.4709663	2.8541952	0.6721085	7.374804
## 63	9.4189099	1.2351143	8.2873476	1.8906412	2.8536763	2.5544415	11.058312
## 64	1.1642714	3.2133006	0.8698714	2.2398868	3.0060287	5.8500443	11.354411
## 65	2.1933302	0.0000000	0.6320820	7.0062015	1.2476238	0.0000000	4.685974
## 66	8.8073627	1.4029404	13.8827721	7.5220110	0.0000000	0.3494785	8.244579
## 67	6.7151988	2.8081791	1.5855875	6.9316913	3.2738739	6.9705811	11.546087
## 68	7.0336377	4.8883390	6.6911977	3.6085609	8.8370362	4.4894466	10.950992
## 69	8.4806073	2.6858953	2.2778658	5.4302719	4.4780787	5.3840809	11.243313
## 70	8.7958121	0.0000000	1.0240359	5.1338101	7.1241968	0.7562547	3.546080
## 71	6.6601000	2.1071187	1.6805944	2.6538167	5.0909974	0.5271704	12.154573
## 72	9.5361147	3.5901708	1.3352546	4.7286879	6.1588500	0.4655044	13.542833
## 73	4.2499990	1.9384364	1.3477790	3.7119354	7.2323634	0.0000000	10.392630
## 74	8.7443798	0.6614760	0.0000000	0.3683772	1.8551127	0.6614760	6.477881
## 75	6.8959715	6.1847960	1.8236271	6.4798449	2.9386057	6.8450923	12.979695
## 76	9.2529353	0.0000000	12.0091790	4.7367564	9.9476489	0.0000000	8.437515
## 77	2.9296206	10.5993618	2.8298496	1.6025044	1.3377111	3.7246503	12.736900
## 78	1.0028825	0.7392433	3.3271268	6.1418374	8.9295931	0.0000000	8.174016
## 79	2.2042033	11.5579028	2.4954905	0.5997939	0.0000000	2.9450458	11.816452
## 80	2.9828932	0.0000000	5.1508968	8.2030714	5.3651081	0.8579014	10.174763
## 81	4.9200026	8.0335640	2.5555708	4.5207617	1.3008266	2.6705911	11.860237
## 82	3.1831053	8.7461078	2.1992169	6.4088732	2.4568850	6.6980643	11.670499
## 83	8.3127155	1.2186572	2.1541295	3.5383519	1.6432559	3.7237005	12.845264
## 84	9.9494306	1.0316775	1.2050797	1.0316775	6.0840792	1.9531162	12.924316
## 85	2.5116198	0.6353365	1.5540485	6.6875465	6.9488928	0.3523066	12.306870
## 86	11.3719837	1.1025238	4.2225496	0.9395275	1.2490205	0.5448810	6.787301
## 87	5.3686741	5.6316573	7.3597654	3.3579883	4.5730351	0.0000000	10.941268
## 88	1.5787455	0.5818815	0.0000000	6.3216864	1.5787455	0.9953036	4.035615

## 89	9.2042796	5.4064074	0.4998841	7.4777097	6.5122032	2.4738648	6.661314
## 90	10.0616369	0.0000000	3.0166033	0.0000000	1.4715517	0.0000000	4.062217
## 91	9.0842004	0.7799741	2.8979955	3.2638157	5.7373758	0.0000000	9.349014
## 92	6.7355520	0.0000000	0.3774014	0.0000000	4.2435625	0.3774014	8.314174
## 93	6.8855561	0.4209405	0.0000000	7.2264170	3.6066436	0.0000000	4.270327
## 94	8.2980791	2.1500397	0.3634515	4.1623228	3.0291525	0.3634515	8.008132
## 95	9.4162129	0.0000000	0.8705028	3.4145685	2.0132836	0.0000000	7.245517
## 96	5.9300584	0.0000000	0.9121900	7.3628056	3.9993506	0.0000000	6.768669
## 97	6.4792581	0.0000000	6.3101456	5.9262035	3.9121708	0.0000000	9.745936
## 98	9.9385565	0.7579620	1.4476850	0.0000000	0.4281424	0.7579620	8.678694
## 99	9.8829416	0.0000000	8.8570467	0.0000000	6.4658406	0.0000000	6.730476
## 100	6.6614589	0.0000000	1.5681294	3.2253212	6.8997327	0.0000000	6.851444
## 101	9.8263770	0.0000000	10.7561214	0.0000000	1.2018847	0.3335382	12.495083
## 102	3.7004397	0.0000000	9.5239539	6.5759174	1.1375035	0.0000000	15.874871
## 103	8.7141115	0.0000000	4.4448791	0.0000000	1.2008182	0.0000000	5.887082
## 104	11.6164299	0.0000000	0.0000000	0.4716557	2.1636919	3.6991962	8.729535
## 105	0.7869309	0.0000000	4.9307704	0.0000000	1.5531147	0.0000000	4.748112
## 106	5.5813121	0.3923174	5.8074657	3.0875647	3.1899194	2.5850587	11.385301
## 107	9.1441264	0.4455148	0.4455148	0.4455148	2.6006028	0.4455148	7.792507
## 108	8.9407191	0.9034240	10.4807184	6.9065287	2.0676043	0.3675947	7.555816
## 109	4.7462106	1.8769196	4.5680139	4.9677635	1.4760706	1.8769196	9.559872
## 110	6.9744203	0.0000000	1.2207633	3.6218409	5.0846638	0.0000000	7.727318
## 111	5.1270843	0.7088494	3.7750927	4.0483844	0.3975839	0.3975839	10.339553
## 112	10.3435681	0.0000000	1.4147309	4.3918914	7.2498501	0.0000000	9.304852
## 113	10.0872660	0.0000000	2.0761144	2.8138120	3.5676063	0.0000000	4.824880
## 114	7.8576601	1.4135399	3.3197624	1.4135399	7.9184566	1.5833747	11.416681
## 115	3.4866500	0.6786128	2.8085086	6.8839775	5.9601665	0.0000000	4.499540
## 116	6.2737173	0.0000000	1.7157177	5.9164647	6.1332059	1.3961047	10.049504
## 117	9.6443351	0.5749250	4.6147452	4.6432905	0.3159140	0.3159140	12.342059
## 118	7.3074431	0.0000000	2.7271581	0.7000845	3.6138852	3.8193412	10.762726
## 119	10.7747740	0.4250295	0.0000000	3.4954010	7.0836219	2.1459709	10.499610
## 120	0.0000000	0.0000000	0.0000000	0.3405053	2.3197624	0.0000000	4.529327

##	121	10.0096954	0.9306995	2.0606354	6.0693821	7.7227399	0.9306995	9.975691
##	122	7.9740101	1.2589410	2.2724114	1.2589410	6.6376334	0.0000000	11.645183
##	123	7.2943809	1.0501882	0.0000000	7.5684168	5.5114364	2.8212204	7.770592
##	124	10.6366809	0.0000000	0.0000000	2.3159140	1.5041119	1.3394225	6.936852
##	125	6.0677957	0.6787029	0.2632748	5.8646492	2.0012978	0.2632748	12.882119
##	126	5.4181528	0.0000000	0.0000000	1.9828385	2.9539915	0.0000000	7.566419
##	127	8.8392378	1.0475384	0.4390380	2.1879261	3.8594428	1.0475384	9.104546
##	128	8.5703460	0.0000000	6.6932486	6.8309436	2.4869717	0.0000000	5.941421
##	129	11.1021695	0.0000000	0.8786861	0.8786861	0.5051796	0.5051796	9.418043
##	130	6.2543465	0.0000000	0.0000000	3.2769433	1.6181447	0.0000000	6.746651
##	131	8.5549311	0.0000000	0.7771988	7.8551775	6.7365886	0.0000000	13.570807
##	132	10.6525462	9.5169750	2.1641426	8.3415735	3.0702519	4.7139267	11.273428
##	133	5.1988202	0.0000000	4.6180683	3.0120501	5.6796265	0.0000000	7.958509
##	134	10.4924691	0.0000000	1.6348720	3.7039755	3.2814164	0.3793992	9.133620
##	135	9.9960177	0.0000000	2.4005379	2.1252874	2.9496843	1.9074676	8.735563
##	136	7.8887329	1.6497074	2.7132339	5.8330621	5.7779246	1.8339830	7.899106
##	137	5.6842633	0.0000000	4.6328208	4.2099991	7.5162736	0.7657893	12.131646
##	138	9.0675957	3.8323837	0.0000000	0.6561760	2.9302642	1.1054769	5.296289
##	139	9.9517341	0.3775125	0.0000000	4.6044924	4.3104201	0.6763577	4.787474
##	140	7.2251072	0.0000000	0.0000000	2.3780121	2.7818633	0.0000000	2.690998
##	141	7.0513993	0.0000000	1.7720968	4.1946229	0.4881036	2.6400424	8.934650
##	142	9.4282383	0.0000000	1.4559650	7.2209896	4.4993995	3.2277873	7.561765
##	143	5.7063289	0.7834986	2.3124328	7.8791194	1.6617040	0.0000000	8.223515
##	144	5.2458493	0.0000000	6.8788835	4.4110737	0.9268344	3.7671781	6.155549
##	145	4.1705500	0.0000000	1.1064153	6.1797161	2.9852089	0.0000000	9.870136
##	146	4.4393638	0.0000000	8.8749365	5.4683813	5.3896322	0.5562087	6.542133
##	147	8.5478203	1.6818990	0.4521737	2.7051596	3.5900750	2.4374941	6.221440
##	148	5.4468186	0.0000000	0.0000000	7.6673309	3.4065095	2.5365254	10.951716
##	149	7.8046067	0.0000000	11.4811575	1.3154503	1.0817487	0.0000000	5.139228
##	150	2.3633393	0.0000000	0.0000000	2.7065085	4.4414702	1.2521128	8.631796
##	151	8.9799702	5.1979558	1.0092755	5.9955456	2.4746437	2.7161569	11.514281
##	152	1.4117516	0.8720801	5.6435388	0.8720801	0.0000000	0.0000000	11.563132

## 153	7.8946110	0.4689482	1.5461166	6.9122079	3.1178945	0.0000000	11.029490
## 154	4.7632150	0.9685700	5.4822094	6.1597583	7.2826705	3.7138278	11.182076
## 155	6.3205262	0.6269530	7.9484835	4.1375773	6.9447823	0.0000000	11.112676
## 156	6.7428430	0.0000000	0.0000000	8.4082440	4.2428159	2.1657190	8.808393
##	rs_GPX2	rs_SLC15A1	rs_MUC2	rs_CALB2	rs_CHRM1	rs_PCDH10	
## 1	4.0376019	0.0000000	2.9735194	5.3966630	7.9327061	1.8360857	
## 2	4.3320706	0.7843365	0.0000000	7.7346866	2.5096958	5.6882195	
## 3	7.0872443	0.7921057	0.4497462	7.4521984	2.9909912	1.8321204	
## 4	4.6087442	0.0000000	16.8518069	4.5353438	5.2825251	0.4889263	
## 5	3.8940319	0.4815056	0.0000000	5.5410997	3.4469046	3.2203454	
## 6	1.3538878	6.7735019	0.0000000	10.5452129	7.9535446	2.6291701	
## 7	4.7871242	0.0000000	0.0000000	9.4539848	5.0615559	0.0000000	
## 8	1.4534912	10.6997243	0.7617108	8.6583018	8.8596320	2.8598106	
## 9	2.0416986	4.5765282	0.0000000	8.3336035	7.5185454	0.0000000	
## 10	3.2563616	0.8598106	3.3165947	6.1920442	0.4930324	1.1519887	
## 11	3.7053366	5.0640335	5.1481084	5.6776210	4.8795882	3.9745844	
## 12	1.0785415	0.4548076	0.0000000	6.0413941	5.0869281	0.0000000	
## 13	2.0808623	0.9433588	0.0000000	7.3281022	4.6961107	0.0000000	
## 14	5.0224255	0.0000000	0.0000000	7.4198869	3.7075579	3.2799318	
## 15	2.5854914	0.4407396	1.8078083	5.7420979	4.9713458	1.2804813	
## 16	1.2536263	0.5474498	0.0000000	4.5614422	2.4892089	4.4742738	
## 17	9.0357047	1.4180280	1.1726155	4.5845597	3.7141026	12.0427631	
## 18	4.1538297	0.4665488	0.8186052	10.2199867	0.4665488	6.6696193	
## 19	3.9646666	0.3634515	0.0000000	5.0731390	3.8258161	1.1017173	
## 20	4.9490399	4.2987170	0.6551686	4.3196324	7.6262931	1.9538240	
## 21	9.0589058	4.5105822	2.8184211	7.5720150	2.3322496	6.4754578	
## 22	0.4976379	1.4045762	0.0000000	9.1759986	6.5109255	1.1606621	
## 23	2.2530514	0.0000000	1.2705887	7.2085748	4.8704584	0.0000000	
## 24	4.6873071	1.3094673	0.0000000	10.7317441	5.8467816	1.6860298	
## 25	2.5450788	2.1848198	3.3259476	3.3716007	3.6188142	0.0000000	
## 26	9.8058367	0.0000000	0.0000000	6.4604608	3.4039357	2.4662878	
## 27	4.2429073	0.4422269	0.0000000	5.4489967	6.1041374	3.2093910	

## 28	6.9793543	1.1657512	3.6078274	5.0407653	6.0370132	5.1288543
## 29	2.6835617	0.0000000	12.4220144	3.9509443	1.7701525	1.7701525
## 30	6.3703596	1.3138263	0.8015726	5.9438135	4.6523660	1.8481973
## 31	9.3297643	0.4826418	1.9188823	6.0821874	5.4434243	4.2688311
## 32	3.1242123	1.4617381	0.0000000	6.0878341	1.0374525	8.0509941
## 33	5.7957644	0.4374408	1.0445340	10.8181534	5.1867897	4.1982898
## 34	5.4989114	0.5238630	0.0000000	4.2771516	3.4103682	9.3584954
## 35	1.5005471	3.2900705	5.8958770	7.8820726	7.2731177	0.7922723
## 36	4.2453435	3.0482187	0.0000000	6.5452966	7.9254838	0.5137939
## 37	5.1818658	0.8960781	4.9802036	5.2649717	4.8570404	4.1528811
## 38	0.6439485	0.0000000	0.0000000	7.5829135	4.4096761	1.4264795
## 39	8.1913781	0.0000000	1.6751836	5.1562105	8.1563107	1.8609231
## 40	2.0742657	7.5660807	0.0000000	7.9350943	6.0831091	4.3411176
## 41	0.0000000	1.7196216	2.7158934	10.1588361	9.7755680	1.2082675
## 42	5.4739914	6.5470580	1.6991962	6.6952018	8.6820929	1.3208312
## 43	1.6911768	6.9906180	4.4268149	11.8270207	8.4806662	1.4767964
## 44	3.8202811	1.6725159	8.3446856	7.3394055	3.4179605	3.7549944
## 45	3.2167187	1.7824924	0.0000000	8.2689728	2.5559143	9.8377925
## 46	4.1519887	0.7903550	3.9958463	6.6728553	3.5779605	1.8290783
## 47	0.6822137	0.0000000	0.0000000	8.2460270	1.1435240	5.7441557
## 48	7.1899570	3.3154213	0.3661403	7.9235367	6.6616114	2.3346255
## 49	2.6803244	0.3614315	0.0000000	6.9509594	0.0000000	2.7430410
## 50	2.7650255	0.4028313	0.0000000	7.0558865	2.4618428	3.3245802
## 51	1.1810389	5.7694756	0.3971458	5.6920114	5.7694756	3.7733951
## 52	4.7281817	0.8455904	0.6147570	5.4865953	5.1937875	0.8455904
## 53	5.1072736	0.4093638	0.4093638	4.2009516	1.4009204	1.2095158
## 54	6.6789649	4.5232859	1.9403923	5.9710722	4.5671256	6.1183203
## 55	2.7997090	2.0975097	0.6747318	5.1890338	6.3058921	2.7997090
## 56	2.3415019	6.7976901	1.1508846	12.5942473	6.7329502	1.6013162
## 57	4.6759570	1.4885664	1.8190550	7.5963903	7.2478070	5.1124041
## 58	5.8743052	0.0000000	0.4008658	4.4046988	5.3924067	0.7143115
## 59	0.6681191	7.0449580	1.6142387	8.2744192	5.9115502	2.4376272

## 60	5.5416449	1.0557510	1.6588284	3.7448500	4.7345471	7.5805375
## 61	3.9642600	0.3832757	0.0000000	6.5330602	2.0155689	3.7525452
## 62	4.6286045	0.6721085	0.0000000	5.7891711	2.3656925	7.7477278
## 63	2.8536763	0.0000000	0.0000000	4.5696916	3.0551262	2.9067367
## 64	3.5037812	1.6176276	0.0000000	7.5290307	2.4727737	1.6176276
## 65	1.7966393	3.9858920	0.3503841	6.4796412	0.3503841	1.4056657
## 66	0.8656813	0.3494785	14.6457184	5.1840660	0.0000000	5.9569116
## 67	7.0343775	1.5855875	0.0000000	7.7197755	6.0598419	1.2229282
## 68	5.9891685	0.0000000	1.1662013	6.3824701	3.7149049	2.7222256
## 69	6.3507783	1.3702201	0.5389354	6.3101838	4.7204043	2.7357821
## 70	5.2029153	0.4270698	1.0240359	4.0143553	2.6248495	9.2828672
## 71	2.9291661	0.9124199	2.1071187	9.1896492	4.1861360	1.6805944
## 72	3.9155113	0.0000000	0.0000000	5.7932560	1.3352546	2.9018227
## 73	1.1938979	6.7497836	0.5994130	8.2138586	4.0846596	2.3562847
## 74	1.6022193	0.3683772	4.4556494	5.3105328	1.2953116	2.4230403
## 75	8.8356494	0.7092024	0.3978030	8.0796117	6.3733837	2.4447731
## 76	3.1579007	0.0000000	5.8387426	3.7499633	0.4619476	0.0000000
## 77	6.6769979	1.3377111	0.5937840	12.3362446	2.7226409	1.6025044
## 78	0.0000000	9.0483427	0.4165155	11.2405974	8.3216684	3.0639861
## 79	6.7577767	2.2042033	0.5997939	11.7008017	0.0000000	2.7377084
## 80	1.9424207	4.9757265	0.0000000	11.9266469	5.9899814	3.1240138
## 81	6.8353228	1.9735745	2.1425115	11.4393849	4.2518857	1.9735745
## 82	5.3562882	1.4834160	0.0000000	11.0881400	7.8313864	2.4568850
## 83	7.7603647	1.2186572	0.6143800	4.4400286	2.5954559	6.7259865
## 84	2.8612209	0.3346827	0.3346827	5.8097077	2.8612209	3.7859376
## 85	2.1108643	6.9649542	0.0000000	9.2529695	2.3644043	2.1108643
## 86	4.5817309	0.0000000	0.0000000	2.1511769	0.5448810	2.9789095
## 87	1.2153058	0.4119685	1.4072440	6.2853893	4.8292864	4.7605989
## 88	1.5787455	0.0000000	1.3163196	2.3144645	0.9953036	0.9953036
## 89	2.3621051	3.2144979	0.0000000	5.6399933	1.9630672	0.8704239
## 90	11.2735474	0.3257318	0.0000000	1.5976504	0.5912964	1.1804662
## 91	2.4066999	2.6731720	4.8383720	5.6265676	6.4318770	1.9517370

## 92	6.9426271	4.7234876	0.9237957	5.6364506	4.7873698	2.6049490
## 93	4.1922573	0.0000000	0.0000000	3.4364684	2.8949147	2.3408756
## 94	5.6103162	0.8949923	5.0231932	5.5932910	6.5868983	3.4252042
## 95	2.7052702	0.8705028	0.6343145	5.9673646	7.9928160	1.2512646
## 96	3.9993506	0.0000000	0.9121900	6.1430791	1.6802343	4.0385942
## 97	5.3912487	5.4905477	0.3774014	8.4237643	7.0077718	1.4824869
## 98	3.7108340	0.0000000	0.4281424	6.9259318	1.4476850	1.4476850
## 99	7.9124708	0.0000000	0.9659874	7.1794921	4.3267746	4.4153801
## 100	3.6206099	0.9873936	0.0000000	3.6771135	1.9810854	0.0000000
## 101	9.0016151	5.7424321	4.9977124	1.3564256	7.6933601	0.8320393
## 102	1.3785116	0.4854268	6.1497471	8.0821490	2.5360529	2.6322682
## 103	1.4947740	0.0000000	0.3330802	1.4947740	1.9475166	0.6035967
## 104	2.3934437	4.8884218	3.1267582	7.5015864	5.8151425	1.5527213
## 105	4.1044373	0.0000000	0.5691022	3.4157992	0.9761436	2.8166407
## 106	5.0390287	0.0000000	0.0000000	7.6712106	0.3923174	4.4758437
## 107	3.2755286	0.7854250	1.6648924	5.7501991	1.8207712	1.2911910
## 108	3.0949792	1.2933116	1.9641029	5.7575887	4.2906382	3.0949792
## 109	5.7312267	1.8769196	0.0000000	7.4155677	3.0998338	2.0420840
## 110	6.5871099	0.0000000	0.7357821	10.7713572	5.0560979	13.4150581
## 111	7.0272602	6.5636371	2.0609466	6.8241263	7.2450583	2.6765834
## 112	4.1425360	0.0000000	1.4147309	6.5907652	3.5643660	3.5126567
## 113	5.5863024	0.0000000	1.5900031	3.4128086	0.8513593	1.1416290
## 114	1.2210109	1.8727106	2.3199936	5.0709174	6.3610314	3.1677914
## 115	2.5371718	4.6451483	0.0000000	8.4509036	7.4624082	1.1382247
## 116	1.3961047	0.9848445	0.7248249	5.9319714	1.5647196	3.7791021
## 117	4.1807764	0.5749250	0.0000000	4.1007002	1.1531568	2.7814017
## 118	7.2073394	5.7064753	0.0000000	4.2086031	6.1615028	7.6366333
## 119	2.6179802	1.6114085	1.7647283	5.3843400	4.7009501	2.3536338
## 120	0.6156988	0.0000000	3.2096561	1.0459322	3.7841061	2.7773040
## 121	5.3530798	2.9628451	4.7935370	5.8936146	4.0361077	3.9957016
## 122	1.9208268	0.7626465	1.0320303	6.1285388	2.0477827	3.9979246
## 123	2.1919416	0.7771988	0.0000000	6.3325844	2.1919416	2.5842169

## 124	6.9187178	0.0000000	2.3159140	3.9145837	8.5271704	0.9398284
## 125	3.7240718	1.5861162	1.0008654	4.9371372	0.8487982	4.8892009
## 126	3.7712729	0.0000000	0.0000000	4.6941336	0.0000000	1.6364506
## 127	3.7869518	1.0475384	0.0000000	0.0000000	2.3972006	1.4742024
## 128	4.6209148	0.3650206	1.4474205	5.6830732	0.8980922	2.1552635
## 129	10.8039455	6.9378858	1.1750455	4.1852798	2.1225402	5.3517873
## 130	4.3249330	3.0066930	1.4091465	3.9140191	7.8934805	0.8701871
## 131	1.6513617	0.0000000	2.1918469	0.4403144	1.0501186	9.0457062
## 132	6.7959370	1.6673018	2.1641426	4.5085744	6.6472555	3.4026403
## 133	6.9574770	1.5671073	1.1229377	7.3184795	5.0698482	1.5671073
## 134	4.6647445	2.9293176	2.0028825	6.2054101	3.8005686	2.8711931
## 135	4.0523811	0.3848235	1.5029925	4.5621264	1.3383388	4.3834693
## 136	5.6608887	0.5134907	0.5134907	6.3839444	2.6159812	1.1906781
## 137	6.3305907	0.4330663	14.8353692	8.3011569	5.1132588	7.6019735
## 138	4.3012803	5.4843380	6.0333701	10.6217948	9.2034464	0.3650206
## 139	1.6292400	3.0316775	0.0000000	6.7834422	4.4939483	1.8842462
## 140	5.7633186	0.0000000	14.0999867	1.8151245	9.1448402	4.4026608
## 141	3.8364291	3.7951851	0.0000000	9.5464689	2.2088918	0.0000000
## 142	2.6392785	4.9372314	2.6392785	6.3246288	3.9017937	0.0000000
## 143	1.9579889	3.9473015	0.0000000	10.1083627	10.0501714	1.8174595
## 144	4.9205744	0.0000000	2.7776196	5.3290518	2.8694174	1.8888114
## 145	1.1064153	5.1766659	0.3654686	5.4952123	4.0995477	4.1472660
## 146	3.1693157	0.0000000	5.2539515	7.8191278	1.9344033	6.0216996
## 147	0.7959331	0.4521737	1.3058538	6.2214402	5.8033536	2.4374941
## 148	2.3789832	0.6782522	2.3789832	5.1624477	3.0361340	2.3789832
## 149	5.3248358	0.4564908	6.5723713	2.7187452	4.2935029	1.5165195
## 150	0.9420077	3.9763453	0.0000000	1.2521128	9.5630290	1.2521128
## 151	4.7727619	0.3256167	0.0000000	6.4571362	5.1369665	2.7707022
## 152	5.9354220	0.0000000	1.6209617	3.7938959	8.2462779	1.6209617
## 153	10.3837017	3.2402227	4.2517872	8.8332468	5.3419253	2.4876664
## 154	3.4863668	8.3947465	0.0000000	9.2135016	6.7908880	1.1864372
## 155	2.9641398	2.3454532	0.0000000	6.6564606	1.3966527	2.5603726

## 156	2.6958825	0.5831339	0.0000000	5.6812047	2.8027309	3.1651241	
##	rs_CTND2	rs_CECR2	rs_SPINK8	rs_LY6K	rs_PEG3	rs_CST2	rs_SERHL2
## 1	9.0038571	4.6433136	3.3214231	7.8196165	8.1972855	7.5263560	7.152578
## 2	8.0059456	1.2895984	4.0469799	3.9491707	8.3141518	2.5096958	7.557201
## 3	8.8797373	5.7559745	0.0000000	6.9445832	12.2334053	3.9322596	8.867722
## 4	8.8279917	1.3860936	0.0000000	2.8179097	5.4095539	7.8936832	8.904353
## 5	9.7056215	5.1960444	4.5596876	3.5961599	11.6495081	6.0949412	8.541931
## 6	4.6356906	3.4402612	4.1372986	8.1268438	10.2780409	1.0266584	6.170049
## 7	4.5464562	1.3463045	0.0000000	10.2297424	5.9523732	4.7253649	4.987375
## 8	7.7588621	4.0572856	0.0000000	9.4503873	13.1643894	2.0460020	4.332443
## 9	1.0279325	2.3663642	0.0000000	4.6076085	10.3049549	3.8587966	4.587173
## 10	9.7020710	0.8598106	1.1519887	4.4978039	7.8553195	4.4448128	6.162317
## 11	8.0033993	6.8465560	6.5495629	7.5262167	7.0947027	5.0926049	12.465307
## 12	5.1333704	2.6297063	1.0785415	3.0076082	6.5888001	7.0904872	7.260369
## 13	2.0808623	2.6032881	0.0000000	2.0808623	14.1470183	1.9142201	3.354791
## 14	7.0844736	2.1214133	4.4447664	8.2977091	6.8985022	7.0038923	8.538504
## 15	4.6811063	0.7778720	4.3929287	4.9040746	6.6326986	2.1931409	7.767620
## 16	7.0749506	0.5474498	4.6959493	1.5088850	5.5544200	7.1934002	9.587804
## 17	8.6522635	6.3371669	3.1607750	5.1578118	12.5880861	4.9971343	8.106863
## 18	9.6646512	7.2498501	0.0000000	5.3741179	8.3897823	5.6291176	7.821069
## 19	4.2945693	1.7190520	2.1500072	2.9775913	7.4502858	5.5230852	8.038702
## 20	7.9298561	7.8093366	2.9279154	3.3901311	8.4169799	3.6098140	7.762541
## 21	3.1813888	8.9907243	6.4084928	2.9747312	7.5608647	3.7985586	7.441200
## 22	0.4976379	2.2347466	0.0000000	1.7954345	0.4976379	0.0000000	4.757130
## 23	1.9355352	1.2705887	4.1276580	10.3522422	7.0327621	3.5643660	10.413294
## 24	7.3279990	0.4537546	0.4537546	9.0170723	12.1811687	3.6812019	3.883709
## 25	5.4234168	2.2836551	3.2300493	7.2861992	6.6984060	6.1878608	10.218377
## 26	9.7136927	7.3871936	2.0686708	5.2881112	5.9657312	4.3149502	7.675642
## 27	11.1303610	1.9521099	3.1523457	5.9702325	8.1220168	8.0806971	8.523174
## 28	7.9640792	1.4103411	6.6507918	8.1628742	4.9662043	0.8710551	7.793385
## 29	7.7858729	8.0547014	0.0000000	2.2067370	9.9515126	3.4913529	10.311321
## 30	8.6531944	5.6124764	2.4483988	7.2498501	11.4066240	3.0105292	7.115229

## 31	9.2032222	4.1767456	0.0000000	7.9847363	13.9461703	4.9071406	8.515438
## 32	9.5597293	1.0374525	3.4362418	4.7341135	6.2483944	6.0114241	10.798458
## 33	5.5231730	6.5892946	6.8507157	4.3311749	8.3960464	5.1148709	8.611495
## 34	9.8780777	5.4989114	4.6734660	5.0617460	11.1279638	7.5339192	8.346964
## 35	1.0688084	6.7429561	7.3398073	8.0547964	6.8137838	3.4912374	8.519164
## 36	4.6412397	2.3998820	2.7138937	6.1177345	7.6341278	3.4380932	5.883589
## 37	8.4534682	0.8960781	3.5022669	3.5022669	7.7848926	5.9966102	5.723624
## 38	3.0555427	5.1192358	4.7930843	8.8823716	4.8783428	2.9544569	7.669027
## 39	8.8845717	2.0254187	0.0000000	10.5813481	6.2974611	4.9869069	8.827464
## 40	3.9496190	4.0083704	0.0000000	8.6328273	5.1838835	4.5132949	4.459346
## 41	5.5706451	2.2029192	2.3948982	10.8310994	5.3566016	1.5684700	5.612016
## 42	6.3819426	7.8816310	7.4525263	5.2509275	5.1781768	5.6129628	9.878535
## 43	5.2480794	2.5617172	3.1008263	4.3965979	4.9271806	1.6911768	8.416944
## 44	7.5822542	4.1849785	0.0000000	5.2901295	12.9239827	5.5906978	8.597862
## 45	8.1275946	5.5805103	3.0566876	4.5812307	7.4611307	6.0845299	8.089276
## 46	7.2234737	1.8290783	0.7903550	5.5644026	8.7281685	5.4843863	7.299696
## 47	6.6329472	2.6873743	3.1956626	3.2424958	10.4214391	4.3032255	9.085438
## 48	7.7191869	6.5592685	3.5469809	10.3023986	8.4425753	5.8628605	7.118397
## 49	2.1430342	6.4983737	2.5460919	2.5460919	6.2222965	11.0067909	7.333161
## 50	3.8283879	3.1259982	0.0000000	6.5509176	7.0896782	5.9512731	5.021657
## 51	9.1534028	0.9639180	0.0000000	5.3988771	4.2763254	1.6861643	4.594304
## 52	5.6709225	1.6440408	2.9832217	1.5158638	6.3061948	2.5315936	9.466399
## 53	9.7510511	7.1901891	7.7456253	1.7211539	7.2849999	4.8525832	6.791235
## 54	8.2925512	7.9701410	5.4453327	9.9373918	11.2424768	2.1851371	5.483696
## 55	7.5587062	7.5217323	0.3765127	3.4773017	7.5554396	8.2658396	4.887462
## 56	8.9674949	0.0000000	0.0000000	9.8001903	11.8420325	0.0000000	5.776099
## 57	5.1569022	3.6085254	4.5481407	6.3749612	8.9688617	5.2000688	6.937717
## 58	8.4022054	2.3685728	0.0000000	5.9131671	9.8801195	7.2128922	6.848022
## 59	5.4593234	7.1017394	0.0000000	9.0122650	3.5724532	0.0000000	3.976327
## 60	9.3754856	8.0397613	3.3074722	7.7254678	4.8604365	0.0000000	8.982614
## 61	9.3310961	6.8773025	3.1559111	2.8251547	12.3155755	6.9607422	9.174631
## 62	10.3580747	5.2286571	1.1288873	3.3076325	6.2292264	4.2099290	4.769142

## 63	7.7658046	6.2064361	3.7790075	8.6551346	6.0516048	6.2936850	4.775124
## 64	4.7583778	6.0343654	1.4086575	0.8698714	6.5738835	5.3909393	6.320712
## 65	1.5480913	8.7714360	0.0000000	1.7966393	5.2709475	4.1952216	4.139830
## 66	10.3540788	3.6131426	0.0000000	4.7713785	15.3810439	4.3154648	9.309175
## 67	8.2599174	2.5032978	2.0007212	7.6205659	10.2264500	0.4153260	6.755618
## 68	10.4659925	6.1620630	0.6978628	4.2974189	10.7022797	0.3907777	6.172428
## 69	7.7797194	3.1941186	1.8035990	6.1765522	8.4229390	6.1765522	7.044206
## 70	8.8311660	2.1523457	0.4270698	3.5028907	5.4840511	1.6169693	2.367008
## 71	5.7051181	2.1071187	1.4669664	4.3035762	7.0713937	5.4378503	5.586765
## 72	6.4056112	0.8168864	7.4794262	8.1762784	4.7078174	6.1277591	6.148432
## 73	5.4255231	3.4984168	0.0000000	3.1672776	7.1481166	1.8380643	3.320918
## 74	2.5716040	1.2953116	0.0000000	1.6022193	6.8564604	9.0091358	8.907483
## 75	6.8330912	3.2100771	5.0332468	7.9760984	9.7722700	0.3978030	9.829662
## 76	9.4140431	0.0000000	0.0000000	9.9889546	3.6666657	2.4669403	4.967611
## 77	3.7246503	3.0229537	0.0000000	6.9917815	8.3429480	0.0000000	3.911979
## 78	8.4747293	2.6678467	4.9284224	10.7489304	6.2887664	3.8127241	6.128372
## 79	3.8989339	6.0767045	0.0000000	7.4741448	7.9202760	0.0000000	2.993475
## 80	8.4050180	3.0551783	1.5998414	9.7132626	10.9754310	2.8264366	5.703713
## 81	6.2870271	4.0112094	3.6678467	6.8041685	8.9464189	3.6678467	6.320353
## 82	6.0565619	3.8991853	1.2308793	6.0070587	9.5814162	0.5350576	6.686978
## 83	5.0611930	1.8697135	5.3417723	6.3616227	8.2842393	6.8573043	7.634359
## 84	6.9899303	6.6204251	0.6061579	8.0903268	7.2545289	4.5192966	8.392900
## 85	3.3792467	2.7076352	0.0000000	7.8749709	7.9761946	1.2528395	4.592343
## 86	10.7832916	8.6896004	0.2980717	1.7201033	13.9452090	10.4726070	6.741257
## 87	8.5912089	4.3804663	3.6130601	8.6326397	10.0839125	3.5329403	7.654771
## 88	8.0378121	5.8977003	0.0000000	3.3135216	4.6914504	5.2003592	3.756874
## 89	3.9145741	6.4245006	3.0796682	5.5017894	9.9769994	4.1682409	5.241219
## 90	10.5923675	8.3852343	2.1019862	4.0401735	4.4525559	0.5912964	7.718833
## 91	2.4066999	4.0683527	5.4835998	6.5580135	5.0715997	1.4817123	5.215119
## 92	5.9750317	5.9681576	5.3282118	3.2285417	7.0077718	4.0224743	10.299562
## 93	9.3507781	9.8120563	4.0811265	4.0811265	6.8427564	4.5251042	3.194702
## 94	8.5102115	2.3252425	1.5877010	7.6653764	6.9258155	3.2187037	9.617249

## 95	8.8064423	1.2512646	3.5567482	2.7650891	7.1225371	6.4314959	6.240999
## 96	8.7260315	3.4779622	0.0000000	1.2159270	5.5208119	4.9328502	7.440892
## 97	6.1553263	7.5213280	0.0000000	9.7782304	3.8832298	0.0000000	4.414339
## 98	9.4137639	7.0514994	4.9409513	3.5066908	6.2058656	5.6850767	11.321526
## 99	8.1808406	7.2684147	5.3136159	6.0053977	5.8020122	4.3717610	6.701122
## 100	5.6894417	4.9062845	0.5765705	5.7953410	2.8232398	0.5765705	6.626518
## 101	7.7149509	8.7958221	7.0367132	8.6361863	12.3770458	2.2144668	10.513377
## 102	8.3724298	1.1375035	0.8479969	3.2927817	12.8528143	5.6836965	5.317449
## 103	2.3661963	8.0207094	1.0278618	2.9056397	7.1126188	7.1866125	11.129350
## 104	5.5192053	7.6889937	6.4276347	5.8638592	5.1929674	3.7415209	4.376693
## 105	9.5731365	7.8163341	0.9761436	1.4290535	6.1906563	5.4765631	4.259830
## 106	10.1278651	7.0022232	0.3923174	2.0444641	11.2378585	5.5623523	5.339626
## 107	2.5118728	1.9614381	1.8207712	1.8207712	6.6716628	3.3284487	9.216028
## 108	10.2622486	6.1245432	0.3675947	7.8721953	5.7420305	3.4026676	9.359616
## 109	3.4330396	4.7220616	1.2243490	5.3763946	7.2690939	2.4475263	4.668732
## 110	9.4414463	7.4093510	6.6167561	7.1968096	6.4164648	5.9199979	3.746152
## 111	8.6476869	6.5441500	5.3112706	8.7124049	4.6394927	3.5197306	9.362219
## 112	10.5335281	5.3124437	0.0000000	3.1561053	7.6642361	5.1694881	5.860541
## 113	8.6051824	6.3038830	5.6684397	7.4117677	5.0074691	1.3831651	5.437098
## 114	8.2675110	4.0274903	4.9825647	1.2210109	8.3935243	6.9244075	9.445958
## 115	2.6791986	1.1382247	7.5982744	4.7127883	5.7245521	5.1388104	8.702039
## 116	5.4296762	2.2976023	1.9772066	6.9660255	7.2735215	4.5356300	8.682937
## 117	9.4962047	2.0643310	1.5648171	1.6795139	11.5431413	6.6459207	10.268974
## 118	8.5024301	7.3849667	6.4042509	7.0325285	6.5363265	2.7271581	10.281674
## 119	9.3179096	2.1459709	1.9033083	3.3085065	5.9750523	4.3352188	6.584919
## 120	1.0459322	0.3405053	2.8322622	1.3768460	4.8102477	11.8821676	7.002671
## 121	9.5843079	8.1848079	6.2520068	4.4490859	7.7001283	1.2383589	3.603525
## 122	8.4045174	6.7952423	2.9938736	8.5630498	8.9140320	6.7162008	7.220153
## 123	9.4211646	8.2996174	1.8066953	8.0982616	5.6816095	5.7972387	8.922852
## 124	7.5918529	7.6545623	6.1454492	3.0072134	6.9878086	4.2053299	14.291641
## 125	7.6105325	7.1144201	0.8487982	2.8494789	6.8047377	3.2031855	9.629505
## 126	9.6199032	9.8196489	4.8071333	2.8732423	4.1108226	2.2619219	4.739265

## 127	8.5635590	7.6854819	1.0475384	5.5939961	4.6746810	3.7492983	5.007290
## 128	8.1245639	5.6253494	1.9555732	4.9378622	6.0713637	4.7344766	8.416785
## 129	6.6188964	1.1750455	7.4479354	9.4224582	6.7524302	5.2912757	10.960419
## 130	1.9626231	5.3483457	9.0442807	3.3372687	7.9063326	4.3249330	15.036864
## 131	7.9581478	0.0000000	0.0000000	3.4585001	3.3616420	6.2604059	9.187878
## 132	9.5880460	6.0411444	1.8525982	3.4026403	12.6639724	2.7351322	8.483189
## 133	6.3963513	3.5841568	6.8633178	3.6756579	7.7942449	4.6180683	12.090377
## 134	7.9591720	4.2741573	4.7316069	7.2161774	8.1369568	3.1408932	7.469242
## 135	3.4306733	7.0920446	0.3848235	2.7673582	7.2550456	4.7376976	7.647383
## 136	7.7637555	1.6497074	0.5134907	8.1905660	5.7779246	5.6608887	4.655260
## 137	9.6874271	5.6034483	0.0000000	8.4843915	7.9824107	6.9852761	6.318489
## 138	4.8687707	5.9213078	0.8982471	3.9173172	2.8169273	2.9837689	6.287153
## 139	8.0437300	1.3192133	3.5566011	2.6742799	4.0488813	2.6050439	7.072743
## 140	8.8009135	6.6867120	0.8793921	2.5940230	3.5909014	4.0472941	2.781863
## 141	7.3365333	1.3842156	0.0000000	7.2322377	5.1382820	3.5194161	5.720473
## 142	4.7253867	6.8760073	1.7827021	3.0569650	10.1673774	1.6285870	3.914191
## 143	7.7831744	1.6617040	0.0000000	7.6599552	9.8415046	4.2774864	3.245830
## 144	6.5517267	7.0844364	0.0000000	2.5743680	12.0771104	4.1795907	4.887793
## 145	1.9570602	2.2471680	0.3654686	7.2180178	3.7198844	0.3654686	4.696033
## 146	9.9133553	5.8675209	0.0000000	5.1621738	6.3966887	6.9893468	4.743127
## 147	4.4090379	5.9306948	0.0000000	8.2068654	7.8744152	4.6815505	6.818881
## 148	0.0000000	1.1378314	0.0000000	8.3070929	3.4065095	2.3789832	4.682343
## 149	6.1108643	0.8027309	0.0000000	6.3794737	6.1567445	9.1968182	7.067060
## 150	6.5049445	0.5465611	1.7238206	11.7911904	3.7967327	2.7065085	9.267062
## 151	8.2046083	2.4073528	3.9242139	3.9480868	8.0999463	5.8886069	10.678196
## 152	9.4150970	7.1555266	6.1103298	9.7397582	5.2617000	5.1648466	10.203901
## 153	4.8974631	8.2697495	5.0220570	2.2751859	5.8898799	2.9842430	13.469443
## 154	11.1392607	3.7138278	0.0000000	10.3683898	6.7905961	4.7461676	5.521010
## 155	9.2738965	6.4383910	0.3472121	9.4306058	12.4345320	4.7025135	5.284888
## 156	5.8650577	5.2615271	0.5831339	6.6741329	10.5392591	4.9947698	5.342398
##	rs_SEZ6L	rs_TNNI3	rs_EREG	rs_ADAMTS15	rs_PAX2	rs_B3GNT3	
## 1	3.6999180	3.4400619	2.2796496	7.7723410	4.7845563	3.6015182	

## 2	2.7609448	0.7843365	1.8188915	6.5792707	2.5983890	3.7310963
## 3	1.6757256	4.7533746	0.7921057	6.1544779	5.0841408	4.7533746
## 4	4.3191265	1.1442422	0.8535167	8.1071396	0.4889263	5.9709618
## 5	2.1908677	5.7989603	2.5246655	7.1662203	4.6073658	3.9319761
## 6	1.3538878	0.0000000	3.4402612	2.8528179	1.3538878	11.3932814
## 7	1.1090262	0.0000000	3.5125556	3.4116025	0.0000000	5.6207829
## 8	0.0000000	0.0000000	3.5150185	2.7145313	1.9191112	6.4353436
## 9	0.0000000	0.0000000	0.0000000	1.3553546	1.6220870	8.3703082
## 10	1.6026944	0.0000000	0.8598106	4.9983535	0.4930324	2.9104641
## 11	0.7390704	0.0000000	3.0046452	8.3584301	7.6682383	6.7422151
## 12	1.5125809	3.4109923	3.8422950	6.7314983	5.4833676	5.1025742
## 13	0.9433588	0.0000000	3.1450089	3.1450089	0.0000000	4.3163123
## 14	3.1767855	6.5364120	3.4664444	7.1742426	2.5088596	4.7975163
## 15	7.8411945	0.7778720	0.7778720	5.8709984	8.8380454	5.0512503
## 16	2.0807600	5.5160877	0.0000000	7.3237871	5.2271211	3.0675527
## 17	1.8108132	6.7552001	1.1726155	6.2605696	6.7098269	5.3768391
## 18	3.5937004	0.4665488	0.0000000	6.6423073	6.5453769	3.1728555
## 19	3.3048469	6.4327123	8.8810466	6.0945296	2.4054206	8.1252487
## 20	0.3644604	6.6460503	2.0570690	9.6613094	6.8787670	8.4893856
## 21	1.3864799	0.0000000	1.7746711	8.5324989	4.4318369	3.4711614
## 22	0.0000000	7.0350553	3.2074556	3.4978039	0.8668684	9.1780515
## 23	7.8503881	0.0000000	2.7334411	6.2454120	2.1030276	1.2705887
## 24	0.4537546	0.4537546	5.6590312	4.1994368	0.0000000	4.5799223
## 25	1.8397178	0.7179122	10.6830612	8.9964828	4.4353086	7.3979809
## 26	0.8469546	0.6158871	3.6067265	8.3097105	6.9511670	2.8855548
## 27	3.0929347	0.4422269	1.6563133	6.5857167	0.4422269	6.3774309
## 28	0.8710551	1.1657512	1.4103411	5.8732374	5.3648280	3.7479459
## 29	4.4458326	0.6805044	2.0048968	9.2362809	6.7220684	3.7715687
## 30	4.7149269	0.4557546	9.1608181	9.6560592	3.1974094	5.3487671
## 31	1.1322478	0.0000000	3.7776406	8.3645440	1.1322478	5.1525039
## 32	2.6468999	0.4339209	2.8710156	6.6329312	0.4339209	5.5854884
## 33	4.9917849	0.0000000	2.0662959	7.8152520	5.0391823	5.7490166

## 34	3.2201287	1.2100771	0.9074291	8.7067122	3.2863785	4.5167338
## 35	1.0688084	2.9233774	2.6978850	6.7130785	5.3404555	3.7485149
## 36	1.1911204	1.1911204	1.6502131	5.4937594	1.1911204	7.8310773
## 37	3.5022669	5.6705968	8.6973836	8.7196517	1.1962293	6.2704280
## 38	5.6504515	4.2903064	2.9011276	8.7301349	0.0000000	8.2370632
## 39	0.9088129	0.0000000	3.4712785	6.8897023	0.0000000	8.2466052
## 40	2.2790552	0.0000000	2.3714752	4.9021556	0.4017397	8.8063640
## 41	0.0000000	4.8173521	0.4088205	0.4088205	3.7140257	7.4320182
## 42	0.4589069	5.1930226	6.7763106	7.8468474	6.0723845	9.7936496
## 43	0.5318680	6.5776750	0.0000000	1.2249664	0.0000000	8.5267379
## 44	0.3923174	2.4263453	5.2668952	9.5736415	6.0981437	7.0842556
## 45	6.1847226	6.1051333	1.9739051	8.5945258	5.6936682	5.9768562
## 46	1.9700438	5.7222392	10.0113577	8.5557690	2.4267478	7.4267562
## 47	4.3467442	2.1128002	3.2424958	7.5944082	2.8773909	2.5451776
## 48	6.6325038	2.1591448	2.8787646	6.7648583	4.0530244	6.7951942
## 49	9.0994827	0.0000000	1.0969365	7.2087201	4.9089714	2.3981041
## 50	4.7423835	3.2287110	7.3402382	9.0884199	3.8283879	7.7961947
## 51	0.0000000	0.9639180	1.9454953	4.1532703	0.0000000	9.6531720
## 52	2.5964104	0.0000000	1.7617533	5.5936555	4.7568152	2.9832217
## 53	1.2095158	0.4093638	1.9830209	8.5636100	5.0369165	6.3351670
## 54	9.3666662	2.8847542	2.9524454	9.4698764	3.0170845	4.9281666
## 55	5.8787597	0.0000000	0.6747318	9.1239840	2.5286713	4.8592838
## 56	0.0000000	0.0000000	9.4154359	5.3092235	0.0000000	8.9173903
## 57	2.7611576	0.0000000	2.9750982	8.0122563	5.8597634	8.2309624
## 58	3.7194792	3.4502611	7.3914034	8.5201896	2.1775033	5.5287901
## 59	0.3723950	0.3723950	4.8858818	3.3404768	0.3723950	7.9683195
## 60	1.3885753	0.0000000	1.8863941	10.0441449	3.6550426	6.9158698
## 61	10.5009128	0.0000000	1.1488690	9.3540900	5.9999842	2.4764335
## 62	4.2777096	0.0000000	1.1288873	6.2208136	6.8851106	1.3124328
## 63	12.2627234	5.3603116	1.2351143	8.9400187	3.5312192	3.6604267
## 64	2.1076544	0.0000000	4.5448377	10.4772454	4.2941134	4.0636755
## 65	0.6320820	0.0000000	2.1039004	5.3909221	0.0000000	4.3969335

## 66	0.6304987	0.3494785	0.8656813	8.9508994	5.4782147	4.3927914
## 67	3.7013273	0.0000000	6.8547836	7.4272215	3.7013273	5.7197612
## 68	3.1336128	4.7282580	3.6803244	9.0019137	1.5191896	4.5288651
## 69	5.3363619	0.5389354	4.7929074	8.1350310	4.4334202	6.6068479
## 70	2.9157886	5.4389282	1.9093507	4.9205982	4.0143553	4.5481592
## 71	4.7083749	2.2477453	1.4669664	7.6161217	4.9123337	8.7384767
## 72	1.7158055	3.7619873	3.6786353	9.2578491	1.3352546	5.0929770
## 73	1.9384364	0.0000000	3.1253205	6.5931252	0.0000000	6.1868907
## 74	4.1117408	5.6650004	0.0000000	10.6565564	0.3683772	1.7341785
## 75	1.8236271	1.1825652	5.1279758	8.5844255	2.5265446	7.4768912
## 76	1.0923428	1.7068178	3.9393206	10.5184552	0.0000000	3.2176495
## 77	0.5937840	0.0000000	1.8261112	9.1695425	0.0000000	4.1946859
## 78	0.4165155	0.0000000	3.5077693	3.1750615	2.6678467	5.0930742
## 79	3.1263121	0.0000000	2.8451086	8.6894938	0.0000000	3.4321310
## 80	0.0000000	5.1175247	2.4511188	6.9456861	1.5998414	6.4516035
## 81	4.2883659	0.0000000	5.8232500	9.2684896	2.8763107	4.9200026
## 82	1.4834160	0.0000000	6.1138109	8.5317963	1.4834160	8.3551224
## 83	4.4920134	1.2186572	1.9708905	8.3601079	5.6316805	2.3916028
## 84	3.5808811	2.4432353	1.3598585	7.7169875	2.3722556	4.0812459
## 85	0.0000000	0.0000000	1.5540485	7.2244619	0.0000000	7.1364344
## 86	3.0605317	0.5448810	1.2490205	9.4296549	0.2980717	0.2980717
## 87	4.3573901	5.1308609	4.1846294	9.6546774	3.8628679	8.8476296
## 88	0.9953036	0.0000000	0.0000000	9.1173740	7.4785448	5.1406642
## 89	2.9309076	0.4998841	0.8704239	6.1494728	6.7964459	0.8704239
## 90	1.0094905	5.0844980	0.3257318	9.9836523	7.2691444	1.1804662
## 91	1.0535979	6.6224326	9.9220857	9.1347677	2.0796341	8.1271922
## 92	1.1350094	1.4824869	9.6287552	8.7988865	3.5927082	7.4613910
## 93	0.4209405	3.3432230	0.7464848	9.5373318	0.4209405	4.9136171
## 94	1.2825584	0.0000000	2.5536308	8.0461625	5.3310961	5.4493435
## 95	1.0734090	0.6343145	3.2145600	6.4769211	4.0165944	2.8225262
## 96	2.1787784	1.2159270	3.5878570	8.4774280	7.3433501	2.4355486
## 97	0.0000000	0.3774014	3.9683765	4.7557796	1.1350094	7.6320384

## 98	2.3635916	3.2688236	1.0261627	11.5971668	6.3180221	1.9123816
## 99	4.1313425	3.5996272	3.5613017	3.7088494	5.9094995	6.4554292
## 100	2.6790634	7.5484921	0.5765705	9.4884732	2.1502997	3.6771135
## 101	0.3335382	4.8752149	1.0287813	11.0449634	8.5745334	7.2464584
## 102	3.1043367	0.8479969	1.5849625	6.8404632	6.1659119	6.7944159
## 103	2.0415584	0.6035967	0.6035967	7.8814517	9.1431679	0.3330802
## 104	5.5313191	0.0000000	3.9363270	8.0797744	4.8307725	5.3379608
## 105	0.7869309	0.5691022	0.0000000	10.5636859	4.8239735	4.9978118
## 106	6.2361252	2.9189586	1.1699891	7.5098874	1.5236121	3.9426177
## 107	3.9849903	7.2773590	1.4901080	9.1171205	1.4901080	1.6648924
## 108	6.7597298	3.3625400	1.4547023	7.3633122	4.7298246	3.2787431
## 109	2.5607883	0.5315686	2.8553519	7.4996506	1.4760706	6.1843378
## 110	2.4127002	2.2201132	6.7915588	5.0269549	5.7250922	6.7915588
## 111	6.4993197	5.2036045	6.5243975	7.9119773	4.2780591	4.9459026
## 112	1.9693071	6.7499807	2.1151331	9.1032750	5.8699207	5.0293115
## 113	1.1416290	3.4128086	3.7511209	8.5396625	3.2995377	5.4863250
## 114	2.8723954	5.1541700	1.4135399	8.7613687	5.0851314	4.2953998
## 115	0.0000000	0.0000000	1.1382247	2.8085086	2.3795932	6.4208697
## 116	1.8523984	1.7157177	0.4075159	5.3511053	1.3961047	0.9848445
## 117	8.8908242	6.5883609	0.3159140	10.3360094	6.7381301	3.6444908
## 118	3.5383395	0.0000000	4.4337674	6.7184959	5.0380454	6.8176885
## 119	1.7647283	2.6179802	3.1504947	9.4253269	2.2535355	5.9377234
## 120	6.2790422	0.3405053	0.0000000	7.9022063	6.8840447	1.0459322
## 121	2.5811343	4.7697717	2.3442320	9.2385984	5.9790010	4.2573275
## 122	3.5171623	6.3355922	1.2589410	8.8565678	5.7155859	5.4881968
## 123	3.6347559	5.7879496	1.4774701	8.2698976	2.1919416	4.9196928
## 124	2.1266425	4.5259811	2.0217995	9.8443505	1.3394225	4.8197755
## 125	0.2632748	0.0000000	3.4075567	8.4782713	3.5125430	7.2208890
## 126	10.4979639	0.0000000	0.5077185	9.0065777	1.1797658	1.9828385
## 127	5.4836546	2.6632991	0.0000000	7.4504937	1.4742024	4.2037415
## 128	8.8378395	2.2456174	6.3352278	5.8363105	6.5935614	4.6209148
## 129	4.1516316	0.8786861	1.4207788	8.9909832	3.5214654	5.9298951

##	130	0.8701871	0.0000000	0.0000000	3.9911545	1.9626231	5.8713287
##	131	0.7771988	6.8963917	2.1918469	8.1516204	6.4252461	1.0501186
##	132	2.2978370	0.0000000	1.4547023	9.8882235	4.2024020	6.0880525
##	133	2.1806571	6.6985811	1.3620490	2.4111008	4.0278706	8.8478610
##	134	2.6812918	1.1396005	1.6348720	5.9058370	4.5582554	4.8416360
##	135	2.2229900	0.3848235	2.6316165	6.1437097	2.6316165	3.7907825
##	136	3.8332443	0.5134907	1.8339830	8.1989862	3.1895241	2.8900575
##	137	4.8929495	6.5459220	3.6093413	5.1982702	4.3152474	5.9686576
##	138	0.0000000	0.0000000	0.3650206	2.3308739	0.3650206	8.3793333
##	139	0.9238718	0.3775125	2.4557546	7.3653417	1.1350751	4.2436615
##	140	0.0000000	7.5006491	0.5056877	10.2262838	5.4673121	0.0000000
##	141	0.4881036	0.0000000	3.6173102	2.6400424	0.0000000	9.0388085
##	142	1.6285870	1.0328061	7.7464451	8.2676547	4.4075771	2.7178245
##	143	1.9579889	1.9579889	0.4443490	5.8930175	0.7834986	7.8042782
##	144	1.8888114	3.5062338	1.2337040	7.7482747	0.0000000	7.7146309
##	145	0.3654686	0.0000000	6.7071935	4.2160124	0.0000000	5.1534852
##	146	4.5006045	4.3084992	0.9565771	6.1704339	5.4373942	5.2360563
##	147	2.4374941	1.0733404	0.0000000	8.0251462	6.1334053	3.2427549
##	148	1.4857875	4.9547547	2.2020729	2.6785677	1.4857875	4.0005409
##	149	2.1209491	4.5210256	0.8027309	10.6858236	4.2376784	0.8027309
##	150	0.0000000	0.9420077	0.0000000	3.3522359	0.0000000	9.7019557
##	151	5.9191160	2.7707022	0.5912007	9.3010370	7.2082558	4.0835453
##	152	1.1670367	3.3410606	1.9657289	6.1697767	5.2140859	6.8213722
##	153	0.8221999	5.1367451	0.4689482	4.6104461	6.1862529	6.0755883
##	154	0.7119354	2.8835426	3.2162220	5.2358266	4.0277733	9.7173839
##	155	1.2392147	0.0000000	7.4300502	6.3545103	0.6269530	1.2392147
##	156	2.9022087	0.0000000	1.3186928	7.4984559	4.0393227	0.0000000
##		rs_L0C440905	rs_CD19	rs_RIMS2	rs_ALOX15	rs_ADAMTS19	rs_NTRK3
##	1	10.1397174	4.4867272	1.6516832	1.1923204	1.6516832	6.7789248
##	2	5.8773614	0.7843365	1.0590091	0.0000000	0.4448791	6.1436893
##	3	3.7481499	2.7766936	2.9230351	0.7921057	5.1745902	5.5905990
##	4	7.1018087	1.1442422	1.1442422	0.4889263	5.9802104	4.3191265

## 5	3.0235215	4.5352443	1.1300083	7.5082844	3.5961599	3.4983913
## 6	5.5909373	7.1505475	5.9099795	3.0463863	2.0398403	5.9708997
## 7	3.0578661	8.2970832	3.8956419	2.2799170	0.4706150	7.2385891
## 8	2.4648251	4.3309456	5.6843026	2.3709454	0.4304994	9.9173854
## 9	3.5741621	1.6220870	0.6035967	1.0279325	0.0000000	8.1131170
## 10	7.1861866	1.3948982	0.0000000	2.6545272	1.3948982	9.2048694
## 11	8.8643053	2.1195554	7.1983782	6.4863668	4.8124674	4.2014065
## 12	7.5502419	8.1841032	3.4109923	8.3941784	1.3118518	4.6911545
## 13	0.0000000	3.5941305	1.2537473	4.5040801	0.0000000	5.4106430
## 14	4.8654289	1.8800977	2.1214133	4.3996633	3.9140957	9.4485731
## 15	6.6990949	0.4407396	0.4407396	4.4411847	6.3904974	4.9211888
## 16	5.5014678	1.9141052	5.0774225	3.7505636	1.2536263	5.6414189
## 17	4.5333889	0.8766446	8.3572137	6.4587183	6.9531453	11.0089766
## 18	6.2302434	2.9768952	1.8768803	2.2685242	6.3832585	7.9938651
## 19	7.4315386	4.6804031	1.1017173	2.4054206	2.4814023	6.1244646
## 20	6.8430982	1.1040682	0.6551686	4.9623963	3.2663218	2.8146119
## 21	0.8537562	1.7746711	2.0802142	3.5725259	6.8582757	2.4434740
## 22	9.5447354	0.8668684	5.9043926	5.4265969	1.7954345	0.0000000
## 23	4.0882603	0.5566992	0.5566992	1.2705887	0.5566992	0.9573203
## 24	6.8201036	5.0350564	0.4537546	0.0000000	4.4395301	8.7695384
## 25	8.7583865	4.7781455	0.0000000	2.6226493	0.4031586	3.5004961
## 26	6.7553056	0.6158871	2.0686708	5.6739634	7.2374213	3.8120977
## 27	5.8852376	3.7606255	3.9399036	0.4422269	2.5015156	7.4240126
## 28	6.9457926	7.9301554	0.5002922	3.1498447	8.0018968	5.6768146
## 29	2.1093271	0.6805044	2.0048968	4.4851949	0.6805044	4.9179854
## 30	7.0780280	1.5147535	4.0533894	6.3960430	3.8076331	7.1776448
## 31	7.2173034	0.4826418	1.5785523	5.2461002	2.0630542	2.1940871
## 32	8.0490840	1.2651368	1.9286546	2.5637195	2.1727435	4.5301519
## 33	3.9230826	4.1415145	4.0207689	3.6247443	4.6890922	7.3127741
## 34	3.6804819	5.1354774	2.1707583	2.5400521	2.7423943	8.1511434
## 35	8.5701236	4.3756303	1.6759965	6.8837112	1.6759965	2.1020198
## 36	6.9364530	9.0949328	4.3398001	6.2288726	0.5137939	5.4236017

## 37	6.2704280	2.0047890	5.4889231	3.8851155	3.5560492	6.8026172
## 38	6.2500046	0.3576083	1.2669364	7.3314974	0.0000000	5.4515079
## 39	8.1761407	6.9421168	0.9088129	6.8353115	4.9668088	0.9088129
## 40	4.6670917	7.0126916	5.3398144	4.7382490	2.4583295	3.9193115
## 41	4.9759603	1.3995539	3.8182268	3.6401234	0.9876119	4.1464923
## 42	4.8056330	6.1731674	2.4579619	7.4244922	0.0000000	3.3203258
## 43	5.6191136	0.5318680	4.1289367	1.2249664	0.9196833	3.0238408
## 44	5.5906978	1.3576083	9.5285666	6.3729765	5.5334388	5.1190490
## 45	8.1124098	2.2940472	1.5617905	4.7212742	5.2878896	3.9215506
## 46	7.0946562	2.2163928	2.0984869	1.4975868	0.4485838	8.5641346
## 47	4.6370016	5.4269121	1.7733212	4.9648468	1.4925198	5.7277898
## 48	4.3876452	2.8787646	2.5633534	4.9959005	7.2998326	6.7181218
## 49	5.3015730	1.0969365	1.4374408	4.7952163	7.0285227	3.0212132
## 50	5.2616098	2.6949916	3.7614342	3.7614342	0.7173858	6.3604696
## 51	9.1052446	2.0595629	0.0000000	1.5366000	3.7395673	2.1652366
## 52	5.3801822	0.8455904	1.8705423	0.8455904	8.2063683	3.1217780
## 53	5.0934714	1.5698799	0.7279640	9.0621868	6.2753070	3.6795364
## 54	4.8593037	3.7459795	1.0456526	5.3355404	5.9710722	8.5284475
## 55	8.9312679	4.3490680	6.3221102	3.0277910	4.0447351	6.3328225
## 56	2.0890574	0.0000000	2.5563068	2.3415019	0.0000000	3.5332768
## 57	5.1714350	7.3503638	3.1019022	4.7552829	3.3773459	7.7687758
## 58	7.4872419	0.0000000	3.1190241	3.5718345	2.8250325	8.6987432
## 59	0.0000000	2.0838941	9.1108463	2.4376272	0.0000000	1.3059705
## 60	6.7304375	0.0000000	2.6145685	7.7491722	1.7770725	3.4566879
## 61	3.5797112	0.0000000	5.9152149	0.3832757	4.1975195	6.3514040
## 62	1.3124328	1.8759373	2.8541952	0.0000000	6.1381407	4.0118892
## 63	1.9923334	0.0000000	7.1340412	6.4759004	7.7220664	9.3312576
## 64	8.7934329	0.4994760	1.9620677	6.7347462	0.4994760	5.0562107
## 65	5.7341704	4.4341011	3.4088885	1.4056657	2.1039004	5.3231935
## 66	3.0703550	4.8961265	6.7086990	2.8685880	9.4605145	2.6962832
## 67	6.3817731	2.1162317	4.5858819	9.7094700	2.2231445	6.1574541
## 68	5.8482824	5.7516431	2.3344825	10.8451960	1.6678467	6.8119385

## 69	3.7500383	2.9622714	2.9197214	3.9744559	4.4484583	9.1394309
## 70	7.9683840	1.6169693	2.7776406	3.1009776	1.7705331	2.4539389
## 71	4.3819755	1.5777309	7.4164007	8.1861212	7.6370530	4.2709849
## 72	2.7467642	5.9701818	1.3352546	1.3352546	0.4655044	4.7078174
## 73	0.5994130	7.7150470	3.9468993	2.8949729	1.1938979	5.7969351
## 74	7.0621573	0.6614760	1.2953116	1.1133671	4.3770474	2.9429648
## 75	6.5837688	1.1825652	1.3714473	4.3253576	1.8236271	7.3921809
## 76	2.0069084	0.0000000	2.4669403	2.1363555	8.4248961	4.4681988
## 77	2.0197019	0.5937840	2.1903620	2.0197019	1.6025044	7.3298214
## 78	3.9750432	0.4165155	2.5072619	2.3265661	1.0028825	8.4556022
## 79	3.6843363	1.0221192	2.3571860	1.8388711	5.2126666	6.3653303
## 80	1.3922625	0.4918018	1.5998414	3.1897139	0.4918018	3.5810861
## 81	5.4572988	1.3008266	3.2901590	4.4580932	2.5555708	8.0037074
## 82	5.4775608	1.6983074	2.6754546	1.4834160	2.3337958	7.9747662
## 83	9.8401212	1.0439744	3.1641266	6.9123924	10.0337706	6.3616227
## 84	2.4432353	3.0995982	2.2976023	4.9432181	4.1033298	3.8129910
## 85	6.1882921	1.6839210	2.9846987	4.2673335	0.6353365	5.9701036
## 86	6.3736186	0.0000000	0.2980717	0.7556567	5.2972024	1.5037049
## 87	5.8122004	2.3119681	5.2102798	4.2361329	4.6884713	4.6510115
## 88	0.9953036	0.9953036	1.3163196	7.7321634	0.0000000	0.9953036
## 89	5.4064074	0.0000000	7.1727885	4.3549951	4.5203217	1.6185206
## 90	5.9611765	0.3257318	3.8505394	0.5912964	8.5385545	2.9707248
## 91	7.8326565	5.4246030	1.6559471	7.8051667	3.3676926	1.2834477
## 92	9.0052285	1.8841681	0.9237957	2.9778294	4.5501742	3.4812343
## 93	3.9607063	3.5659505	3.8293117	7.7761869	4.1652688	1.4298570
## 94	7.9903599	1.2825584	0.3634515	3.1270389	2.8686275	4.7740491
## 95	1.2512646	0.0000000	1.5521803	3.9408057	0.3517414	4.3839531
## 96	3.2293264	3.0868517	1.4667054	1.4667054	4.9118689	3.3590010
## 97	4.2206008	0.3774014	4.8485478	3.8536863	2.6741894	2.4556494
## 98	4.8914192	0.0000000	1.4476850	2.3635916	2.3635916	5.2069714
## 99	5.4030120	1.1834548	2.3592963	8.9424641	1.9486382	4.2077679
## 100	7.2084997	0.9873936	8.1422174	2.6790634	0.5765705	4.6761320

## 101	9.1771539	5.0776617	5.3409859	5.0997160	3.9601781	5.2051892
## 102	6.1977082	0.0000000	8.9336907	8.3671963	3.7865964	5.1127001
## 103	3.9341107	1.4947740	0.0000000	1.2008182	8.2423081	0.3330802
## 104	4.4517848	0.0000000	1.3487423	7.7472827	4.9071358	1.5527213
## 105	3.0451459	0.0000000	0.3124328	5.0513982	4.6680454	3.2050014
## 106	4.9396873	0.3923174	3.1396496	1.8074374	7.5939700	6.3784058
## 107	5.6393740	0.0000000	0.0000000	2.3161457	0.7854250	1.8207712
## 108	4.1562267	0.3675947	5.6862120	4.9758090	1.1114988	2.6376334
## 109	2.5607883	3.5474005	5.7432753	2.1902672	0.9191494	5.5093285
## 110	7.1400956	2.7345254	9.2482101	6.4890034	1.2207633	4.3430311
## 111	7.5632687	4.3471554	7.6294863	4.3694735	2.9963345	2.9963345
## 112	1.9693071	2.1151331	4.3334738	1.9693071	2.6814493	7.6625167
## 113	5.7353001	2.2075181	1.3831651	6.6599331	3.6622739	1.5900031
## 114	3.4128628	2.9365155	0.0000000	3.2708578	3.0567743	5.7614076
## 115	6.1056634	7.3970859	1.7664680	7.9740331	0.6786128	2.5371718
## 116	6.0216729	1.3961047	0.7248249	3.2457390	1.9772066	8.6467538
## 117	3.2582023	3.1429852	1.5648171	0.0000000	5.2558519	6.0145227
## 118	7.4063717	4.4748708	1.8066953	1.5229597	5.9298502	2.2472288
## 119	7.0467148	2.0297356	3.0346383	2.7706388	3.0346383	6.0238009
## 120	7.8382043	0.6156988	0.0000000	2.8852034	6.9507518	2.3197624
## 121	6.0198709	1.4918018	6.6074945	3.6238201	8.8957443	6.8924760
## 122	8.3252681	0.4311415	0.4311415	7.6099381	1.6275135	6.7585857
## 123	8.5713951	2.8923133	0.0000000	2.1919416	4.2898197	4.8320191
## 124	0.9398284	4.6717066	1.9087361	3.8849983	3.1632411	1.7860526
## 125	7.4195743	2.3798982	1.3795655	4.4479097	4.5745496	1.7667648
## 126	6.8493713	3.9393676	6.3120879	4.3205785	0.0000000	2.9539915
## 127	6.6419910	4.4814927	0.0000000	6.1937126	2.2963693	0.4390380
## 128	5.2853763	1.2865263	9.9747784	8.4708472	1.8443455	1.9555732
## 129	5.3368939	1.6307316	8.0935280	4.0086213	6.0165476	2.8659188
## 130	1.4091465	4.7143005	0.8701871	2.5771025	0.0000000	2.1082233
## 131	7.0480487	0.7771988	0.0000000	0.4403144	0.0000000	2.7463558
## 132	4.9757769	0.0000000	7.2399288	0.0000000	6.1600670	7.1675235

## 133	6.0567417	8.3316434	2.6097550	1.3620490	0.0000000	4.6409506
## 134	6.7798979	2.8106282	3.7690841	6.2686908	6.0037686	3.9200551
## 135	5.4120193	0.0000000	1.5029925	2.4817639	4.7864604	6.3578159
## 136	4.8897023	1.8339830	3.5988297	5.3029770	2.8900575	4.4560899
## 137	5.5930220	1.7870145	7.4163154	4.7871503	7.0323433	6.2332304
## 138	5.4371778	1.1054769	2.6282603	3.7728569	5.3684541	4.7958708
## 139	6.9321734	5.4713338	0.9238718	2.6742799	3.2739485	0.3775125
## 140	4.8221183	2.1238317	1.4218561	5.5210570	2.7818633	0.8793921
## 141	1.1425441	7.2514237	2.4405005	3.5194161	4.6058143	3.5691994
## 142	7.6191812	2.9307184	1.6285870	4.2313249	2.3740935	2.5561841
## 143	8.5768596	1.4871261	3.2713809	3.2164549	3.9806469	6.2753498
## 144	6.3592980	0.9268344	4.5836454	3.3870316	0.9268344	0.9268344
## 145	6.9075457	4.8416562	5.6930715	0.8990209	3.7436765	5.6188465
## 146	7.4745812	2.8308232	5.2179403	1.2696915	0.0000000	2.5118981
## 147	1.3058538	2.7843783	0.7959331	6.8877653	4.4581851	3.4513166
## 148	3.8880613	0.0000000	6.7037832	0.6782522	5.9732600	2.5365254
## 149	8.2264213	0.4564908	1.8501593	0.8027309	4.3206291	1.3154503
## 150	5.6118865	0.9420077	2.6009358	0.9420077	8.0368912	7.8849361
## 151	6.7118665	0.8153295	1.0092755	2.8232806	5.9430657	6.0350806
## 152	7.0778529	0.8720801	5.5314626	4.8278495	7.4231689	0.5010060
## 153	6.1862529	0.4689482	6.5771131	5.0220570	1.1058122	2.8369340
## 154	3.6045814	2.1727435	4.9534562	3.2648967	3.6419275	9.2637765
## 155	7.2169902	1.2392147	8.4440131	0.3472121	6.7651342	9.9211971
## 156	4.2043442	0.9973285	2.6958825	3.6388848	0.0000000	3.8529577

##	rs_RNF183	rs_FLT3	rs_IBSP	rs_COL4A6	rs_FIBCD1	rs_CES1	rs_AKR1B15
## 1	6.6183503	8.5391491	3.2582325	6.9385987	1.6516832	8.2635443	0.5144000
## 2	3.8800782	10.5739706	3.9491707	6.3996206	5.8046525	8.3679441	3.8075095
## 3	2.6138145	8.8942287	5.0366967	5.9815239	2.8517191	9.1082411	4.5876830
## 4	0.8535167	9.3517010	4.9846167	3.6201172	1.9350825	6.0695819	0.0000000
## 5	3.6426669	2.7107899	3.4983913	4.4331063	4.1080309	7.8823037	3.1576743
## 6	3.0463863	4.1792085	5.0285250	3.6335242	1.3538878	6.3376308	6.7803258
## 7	2.1605653	6.2590483	4.5464562	4.7871242	3.4629684	6.6343275	2.6778916

## 8	1.0308304	4.7591665	3.8292305	1.2575538	3.8641069	6.9018058	2.4648251
## 9	3.5741621	2.7473874	4.4790688	3.5098225	1.0279325	2.2131295	3.0485326
## 10	2.5580227	9.1281642	6.4558105	1.6026944	0.4930324	5.9473108	2.4545971
## 11	2.1195554	4.3027139	6.5024277	3.7053366	10.0308955	6.4481824	1.2253983
## 12	1.3118518	7.1743225	1.8457911	5.7249313	1.3118518	6.3605609	0.4548076
## 13	0.9433588	4.1760275	5.8863453	1.2537473	0.5474498	3.0676903	2.2302645
## 14	5.4993963	5.0518767	3.6315816	6.3235232	6.0736896	8.9315217	1.2268168
## 15	6.9490061	1.8078083	7.6695257	9.3722644	5.2807374	4.4172584	0.7778720
## 16	0.9432837	7.9454479	5.5731382	10.1634279	4.3491954	5.0774225	3.4182979
## 17	0.0000000	0.8766446	4.7728252	4.2140082	1.8108132	10.5593227	3.9273276
## 18	2.5762077	7.6488573	2.6657566	5.0641543	1.3375969	8.0046295	0.8186052
## 19	5.2893955	4.8039296	0.3634515	6.8531349	3.7662983	8.0476976	0.6536104
## 20	4.1431567	4.6354062	5.2830513	2.2437300	6.4370363	6.8892983	1.4459385
## 21	1.7746711	2.5467340	4.8300677	10.5444652	5.3126942	9.9858644	1.3864799
## 22	0.0000000	4.0927656	4.2257377	2.4674099	3.7832157	6.4305429	4.3179986
## 23	0.5566992	3.9631782	6.3901225	4.9384975	4.6446696	6.6353307	3.6748674
## 24	4.8807100	4.7281164	4.1701173	4.4878593	1.0764907	5.1446338	5.1596292
## 25	8.7986374	8.1616146	1.1951586	6.2865023	4.5784618	4.4566485	0.0000000
## 26	2.6610427	2.0686708	2.8855548	3.6983407	3.0336344	6.6898429	0.3405053
## 27	2.0800095	9.5670668	5.8042085	7.0316841	2.9662274	9.5170932	1.0538064
## 28	1.6194130	8.9418610	1.8019864	2.3631991	2.7661923	6.8031444	0.0000000
## 29	0.9291092	9.0437715	2.9316641	3.5295086	0.3800645	5.0550742	0.9291092
## 30	4.9235723	6.1838954	1.9898656	8.4688350	1.8481973	7.3051206	2.8709762
## 31	2.4251101	9.4961695	3.7776406	4.3271053	2.1940871	10.8491080	4.2982624
## 32	3.0031524	6.8237583	7.2797127	5.0413218	4.9294928	8.5153541	1.6347327
## 33	5.3078438	5.7865362	3.6655861	6.8770411	1.2731578	10.3375670	3.6247443
## 34	3.6804819	5.1533352	4.2771516	4.7221381	2.6447562	7.0434178	1.4601135
## 35	3.2900705	4.9199073	4.4256137	3.5374328	3.2900705	7.1297085	5.4888941
## 36	4.3699550	6.7135047	1.4388251	4.9909004	1.4388251	5.8229595	2.9716263
## 37	5.3738187	12.4876250	8.1554022	5.8319304	2.6242647	7.2199855	1.1962293
## 38	2.2194009	1.5700743	5.0474162	3.6149925	7.1231281	7.4312761	0.3576083
## 39	0.5247658	4.4343080	2.1730635	2.6472454	2.3069913	7.8995986	1.2117598

## 40	2.1802752	5.8297659	4.7555072	3.8243911	1.9598443	6.9353100	2.6177921
## 41	1.3995539	0.4088205	5.8252794	1.9814143	2.4820996	4.2494909	3.4368814
## 42	3.9641121	5.1172088	8.7701227	1.8567069	2.8810968	7.0205978	0.4589069
## 43	2.3255303	2.3255303	3.3098456	2.1911520	4.1289367	6.7843561	7.1303070
## 44	5.8934132	8.6565371	7.8361627	7.0608083	3.6866014	6.1936357	0.0000000
## 45	1.9739051	5.0746296	2.7774723	4.1369706	3.4917120	10.0808058	3.3607576
## 46	7.8389303	4.6893942	3.7442472	8.6173595	2.6939887	7.8157631	2.0984869
## 47	4.8179711	5.7763383	4.7385139	7.7544433	2.8773909	8.3378511	2.8167840
## 48	4.0779180	3.5469809	4.8003822	7.6167473	6.2984090	9.6423247	2.6979072
## 49	3.6310461	7.9283514	5.6916291	4.2213976	1.5816887	8.4817671	1.5816887
## 50	7.6207990	8.4398047	5.2856353	5.4855492	4.2010614	8.3184167	3.2287110
## 51	1.5366000	2.2637255	4.3677275	3.9902560	2.0595629	6.2735625	0.0000000
## 52	1.7617533	4.8124366	6.2157989	3.5394070	3.2072526	6.4790365	0.6147570
## 53	2.0980826	4.7855087	6.3982649	5.3815983	3.7515923	6.2691828	1.4009204
## 54	2.7390488	4.3332377	2.6602669	3.4030904	2.5769332	5.9127959	1.9403923
## 55	8.1956842	7.7019323	9.2829584	6.0765548	4.0705611	6.9934049	1.7592411
## 56	0.8589358	0.4924172	5.5537383	1.6013162	3.3147545	4.9401151	1.3935809
## 57	5.8325888	7.2131062	1.8190550	7.6414557	4.6345991	7.4873537	1.0590783
## 58	7.1524562	6.5381594	1.5469562	10.0225907	2.9499084	7.1426779	1.5469562
## 59	2.3569889	4.0280298	8.2578583	2.9028454	0.6681191	5.8539483	2.3569889
## 60	1.3885753	4.3518262	4.0332644	3.5592715	9.2710337	5.3354618	0.0000000
## 61	8.4947964	1.7802261	2.3093217	6.1373109	0.6858953	7.6309238	0.3832757
## 62	1.1288873	8.7827797	0.0000000	4.6458054	0.3748447	7.3329361	0.0000000
## 63	1.3922075	4.1083655	6.0850804	5.9271142	3.7209351	5.1563359	0.0000000
## 64	2.8491987	10.0607300	7.1294407	6.6949707	5.2877567	9.9199487	2.1076544
## 65	0.6320820	4.7164642	7.0245934	5.7341704	2.6999735	5.8692076	6.0655465
## 66	3.6131426	6.5362441	5.3189458	3.7662877	0.8656813	6.0313423	0.3494785
## 67	5.2863415	5.4272039	0.0000000	9.1164375	1.2229282	8.7163500	3.4603101
## 68	3.6085609	5.4972707	3.6085609	6.7958734	2.7886857	6.5830181	0.9509909
## 69	5.1185632	6.1810628	1.9795864	7.5790700	2.2088918	7.1179817	0.0000000
## 70	0.4270698	3.3158850	4.9530557	2.6248495	5.2029153	4.9847944	1.0240359
## 71	1.5777309	8.0594510	2.9291661	12.0290142	8.9737387	4.2709849	1.8665915

## 72	2.2654669	5.8704116	3.0418212	3.4463886	3.2292495	7.4483071	0.0000000
## 73	0.0000000	7.8190691	4.9956609	3.6540918	0.5994130	9.2918724	2.2818466
## 74	0.0000000	1.7341785	4.1827797	3.6593195	1.8551127	6.8710526	1.9666889
## 75	5.5060306	6.2097633	1.6880460	8.9456296	2.5265446	11.5595971	2.0616380
## 76	4.3662872	2.3649366	5.4968170	5.2616060	1.8646517	7.3809026	0.0000000
## 77	0.0000000	4.1121413	0.0000000	4.6690211	2.0197019	14.7709854	5.8201534
## 78	0.7392433	0.4165155	7.1142650	2.6678467	5.7870380	6.3980305	7.3095264
## 79	0.0000000	4.6860691	0.0000000	4.4342012	0.0000000	11.4935924	3.5637317
## 80	0.4918018	0.0000000	8.6580879	3.2525519	4.9379893	7.0686547	7.3130435
## 81	3.4273380	5.5800912	0.0000000	7.8656689	3.0563234	13.8988523	4.3586705
## 82	4.9581606	4.0631750	0.0000000	8.2312505	1.8852620	12.6131062	5.0392042
## 83	3.0760460	8.3624375	4.9165244	6.1674924	0.8451086	8.3682441	3.6645284
## 84	1.8523984	5.4187128	5.1376552	6.6280620	3.5808811	7.9000154	2.5108860
## 85	7.8035280	1.9131479	5.2504993	10.8580186	1.2528395	8.3899101	8.3598558
## 86	3.2111212	3.3796210	2.5406969	1.7201033	0.0000000	0.7556567	0.0000000
## 87	2.8637204	4.3339389	5.4028825	3.7957981	7.6810978	8.3884668	2.2126316
## 88	0.5818815	5.3831928	5.4002647	0.0000000	6.9449252	5.6632621	2.3144645
## 89	3.8744035	2.1086917	6.7134827	5.3489299	3.1486576	2.9309076	1.6185206
## 90	1.7136078	8.3019973	1.7136078	4.7864604	1.5976504	3.6023619	0.0000000
## 91	8.2151131	3.0305127	6.1697887	3.8703647	6.8321773	6.1036277	0.0000000
## 92	5.6450993	4.5501742	6.2088001	4.0224743	4.4938458	8.7872153	0.0000000
## 93	2.3408756	2.0177794	7.2198742	2.6828879	0.0000000	5.6766116	0.4209405
## 94	4.6144566	4.7279967	1.4431823	4.5275083	3.9107423	8.1560360	0.3634515
## 95	2.4376272	4.9063904	2.2825288	6.4813861	3.0318186	6.7965030	0.0000000
## 96	3.2293264	9.7731293	6.8645947	4.7557956	3.1598552	6.3599726	0.5270703
## 97	4.6566394	4.0999937	8.6692412	1.4824869	3.1817705	6.9669714	3.1817705
## 98	2.2633349	6.6059447	4.7869518	2.5453754	4.7128489	6.5905077	0.0000000
## 99	0.9659874	4.7062708	8.4548536	3.1088422	6.3803676	7.3991044	1.6890755
## 100	1.5681294	8.0327979	4.6761320	8.0807120	5.9523965	4.9297295	0.5765705
## 101	6.4226602	4.7272452	4.9620446	2.2144668	0.8320393	2.9564284	3.7807090
## 102	1.7655347	1.5849625	5.1618877	0.4854268	10.1464414	1.7655347	0.8479969
## 103	1.2008182	7.9113339	3.5421837	4.3923174	4.3191121	5.4885182	0.0000000

##	104	3.8226282	0.0000000	6.9939268	9.4971483	5.7951851	6.7305299	0.4716557
##	105	1.1433934	8.1517766	7.7053815	4.2024334	2.4839834	4.5238505	1.1433934
##	106	2.7945198	5.9745247	6.2480395	4.3265373	4.8949244	7.1991707	0.9542708
##	107	1.8207712	10.0200357	7.0242255	8.2961398	3.7722552	4.6577257	1.2911910
##	108	2.2546545	8.1089509	2.6376334	3.3212499	3.5529057	6.6514608	1.5998890
##	109	1.4760706	6.9742482	7.7470671	4.9881575	4.5127768	8.7777836	1.2243490
##	110	2.1132671	5.5311569	7.2227456	5.1804184	4.8216490	7.6577222	2.1132671
##	111	4.9158937	6.1584885	2.0609466	2.6765834	4.2542766	5.5251543	3.5974239
##	112	2.1151331	10.4705472	3.4033086	6.0710182	4.4202331	6.5907652	1.1696685
##	113	4.4796703	3.2393828	5.7569165	3.5178300	1.7708290	7.7176031	0.0000000
##	114	3.4128628	2.5005216	3.7703639	2.4130795	6.9900824	7.2550012	0.9987732
##	115	0.0000000	4.8691953	4.9272992	2.5371718	5.2792967	8.6451987	9.2340045
##	116	6.8524496	4.3168336	4.9554105	3.8784899	2.8481973	8.1395780	1.2050797
##	117	1.7857598	4.0799668	9.4809644	3.6159694	7.4796073	6.1746501	0.0000000
##	118	4.7673158	3.9991522	7.9562042	3.0866649	10.2455431	13.1424620	1.1694120
##	119	7.1372699	10.2858355	5.5305109	10.9731936	2.8412888	7.6367537	0.7529198
##	120	1.2208252	1.5176284	3.2096561	2.5986510	2.4659484	4.3713219	2.3197624
##	121	2.5811343	6.5247204	5.4756686	5.8028549	1.4918018	6.9779278	2.6864333
##	122	3.3790941	8.6343326	5.4656317	4.8159647	1.4549655	6.2523494	4.2563842
##	123	2.6676197	6.4550230	3.9332705	3.1460360	3.2579309	6.2402418	1.8066953
##	124	1.3394225	5.1028219	2.2243799	2.2243799	7.1662987	5.5706420	0.3852654
##	125	2.9649900	2.7239298	7.4823110	6.5986496	6.0849210	7.0174131	0.0000000
##	126	0.8825257	8.3061164	3.3617403	2.7877041	0.0000000	2.4956696	0.5077185
##	127	1.8030617	3.7492983	2.8878567	3.0821405	0.7750927	7.2661278	0.0000000
##	128	1.1053428	8.1656412	7.8767686	4.8251750	6.6730405	4.2582174	2.9299992
##	129	0.5051796	1.8139351	4.6136790	4.4572397	8.9002011	5.2757446	1.8139351
##	130	0.0000000	4.4934808	5.3336134	2.6738730	10.3447280	7.3978868	0.0000000
##	131	0.0000000	0.7771988	2.9599370	1.4773665	0.0000000	5.0181935	0.0000000
##	132	5.9627711	7.1410751	1.4547023	8.9218195	1.8525982	10.0330993	0.0000000
##	133	0.8360857	5.9780537	2.4111008	3.0806236	1.9062364	7.8522149	1.9062364
##	134	2.8106282	4.1079389	5.4499971	7.3525326	4.8566919	8.8322736	2.6812918
##	135	4.8942066	7.1737391	7.1490917	4.5806761	4.0255427	9.0158655	1.6507646

##	136	1.8339830	4.6650175	7.9145263	5.4083960	6.1607387	7.5301269	0.0000000
##	137	3.0622772	4.4133301	7.1859438	5.9110612	5.5505406	8.1187376	0.4330663
##	138	1.1054769	1.1054769	4.7808402	3.0851357	0.8982471	4.8254753	3.3112125
##	139	4.0488813	3.8236373	4.4152449	3.0316775	1.3192133	8.6065348	1.9966418
##	140	1.4218561	2.2564974	6.0088118	1.4218561	2.4900566	7.2650318	0.0000000
##	141	1.3842156	3.1125333	5.7799215	3.0437644	3.1125333	6.3202139	3.2409401
##	142	5.2464043	6.2137827	4.9372314	4.5857317	4.0304950	7.7417521	1.6285870
##	143	5.9862494	0.7834986	5.3201417	8.6171695	2.2036710	1.6617040	2.9053124
##	144	6.9277531	1.7016821	6.3828574	0.5366498	7.7722591	4.0284631	1.4865599
##	145	5.0692811	3.9188728	3.3539725	2.4885921	3.3539725	6.1448764	1.1064153
##	146	0.5562087	5.5860651	7.5847295	4.0046542	3.9175272	6.5851744	2.1018517
##	147	1.9799156	8.9997312	5.8864941	3.1855336	7.1495165	5.7451405	1.3058538
##	148	5.4065571	1.1378314	3.7660651	0.0000000	1.7659590	5.9313048	0.0000000
##	149	1.8501593	1.9918982	4.4243040	4.3990754	6.3859090	4.2658569	0.0000000
##	150	2.2280183	0.5465611	6.5832648	2.2280183	2.2280183	5.3438732	2.7065085
##	151	2.2625835	7.6820247	1.8206487	5.8447798	1.0092755	7.2758247	2.1016837
##	152	6.9136841	1.4117516	3.3989933	0.8720801	1.1670367	6.0392525	1.6209617
##	153	3.1803548	0.8221999	8.3669372	6.2604040	9.0262559	10.0883404	3.8522186
##	154	2.0668814	4.0831283	6.5171198	5.3303576	4.2854614	6.6964293	2.2713659
##	155	6.7506226	6.0978678	4.8459366	2.9641398	4.1597099	5.5459838	1.0625362
##	156	6.6528650	1.9959548	8.0225265	3.2430902	6.3165965	8.6474584	3.7498882
##		rs_PCDHA10	rs_GPM6A	rs_CXCR2P1	rs_DACH1	rs_C1orf95	rs_TMEM45B	rs_VIT
##	1	6.1064740	5.1228342	4.6183679	8.527472	3.8786175	6.4658814	6.9284864
##	2	4.9904240	1.8188915	0.7843365	8.870273	3.2182387	8.1956060	2.7609448
##	3	5.6585171	3.9997926	1.9732072	7.430948	8.9845116	9.4123245	5.3004459
##	4	3.2151194	11.6046749	3.6666884	9.340074	3.2436691	6.9310767	5.9238029
##	5	7.4954809	2.8756032	0.0000000	7.440800	2.7955384	8.9583619	3.2804070
##	6	6.1317191	2.9528367	6.1182081	4.476745	2.6291701	3.4402612	7.5683111
##	7	5.6797165	3.9325526	7.5159245	4.865558	2.9894660	2.1605653	4.1674222
##	8	2.7175832	0.7617108	7.3491237	3.719260	8.2489959	1.2575538	8.0794576
##	9	0.0000000	0.0000000	1.8470749	1.847075	5.0308834	3.2192150	9.9711521
##	10	0.0000000	0.8598106	1.6026944	9.140715	5.3112270	7.4031177	3.2563616

## 11	7.5517283	1.0026665	6.7734360	7.262653	2.5893800	7.5209706	5.5391650
## 12	3.9014655	3.6427016	9.4702570	9.226944	4.5152646	7.3968745	3.1944338
## 13	5.2987170	1.5089864	7.8478454	2.899427	3.4184463	0.9433588	3.7993567
## 14	5.8718510	3.0656929	2.5088596	8.131809	4.6122581	7.1196643	6.4615842
## 15	4.9489886	9.5587907	0.0000000	9.053211	2.7477741	8.2546583	2.4026130
## 16	9.9217703	10.7685351	1.5088850	8.358345	2.7087611	7.7916930	0.5474498
## 17	8.6884580	1.8108132	2.3731192	7.401393	2.2517191	8.5925819	5.9056036
## 18	3.1256676	4.4084877	1.1013139	10.620679	12.8279282	4.4342012	5.0138954
## 19	4.7611257	7.6303101	1.8394356	5.601800	3.9107135	7.3143621	5.1214382
## 20	7.8492431	1.5906260	6.6252003	9.486221	9.3875310	6.2644051	6.5997760
## 21	4.6766454	1.3864799	5.4654619	10.189558	6.0527180	8.0162250	2.2117287
## 22	2.2245960	0.4976379	4.8786518	1.957172	1.7954345	1.6132016	0.0000000
## 23	0.0000000	14.3010710	3.1706782	10.845277	0.5566992	11.8788320	3.1706782
## 24	3.0980152	1.6860298	6.4990071	4.687307	2.4423862	1.8428984	2.7102389
## 25	4.6877270	8.0659148	2.2836551	3.580435	0.7179122	6.3676052	3.0731004
## 26	3.4108160	1.9740520	2.4662878	9.613790	5.4896328	8.0876723	3.6983407
## 27	8.2986134	4.2429073	2.5901229	8.067255	3.6821687	9.7373868	6.0347968
## 28	2.0746424	1.4103411	6.3906264	8.098877	3.2786836	7.4485607	2.3631991
## 29	5.8586226	2.2067370	1.3258469	11.558458	6.7982670	5.1190241	3.6029082
## 30	8.8576573	4.6090930	2.7164642	9.210517	6.0365473	6.6678637	8.2237479
## 31	3.7888840	1.9188823	2.3142035	8.654994	0.0000000	9.6186202	5.2461002
## 32	3.6412223	5.7544199	4.9127840	9.026111	3.8055504	8.3821121	3.0649518
## 33	6.1418067	6.5945918	1.4705108	9.886380	6.9156500	6.4146007	6.2895173
## 34	4.4384925	4.1759477	0.5238630	9.418802	4.9639457	8.4346649	5.6449176
## 35	1.8442249	4.8666212	2.8520588	8.575669	5.6552459	7.6985831	3.6677446
## 36	7.3373418	2.3998820	8.3377659	6.399402	4.6412397	4.2775236	5.8229595
## 37	9.1334392	8.1684124	4.1528811	11.328812	2.9795864	6.5477074	6.0631383
## 38	5.5703810	1.0875986	4.2694147	5.523857	0.6439485	8.1295844	1.0875986
## 39	8.8723871	4.3436921	4.8399495	8.544884	1.6751836	7.3242508	9.2894357
## 40	3.7416180	4.2220472	6.1628686	4.720787	7.4752697	4.1715191	4.0922497
## 41	4.9286309	1.7196216	1.5684700	4.520573	4.6006860	0.9876119	2.7861154
## 42	2.7910639	1.6991962	4.8809206	5.424522	3.3734255	9.5451135	5.4739914

## 43	3.7531017	0.5318680	5.9560311	5.087102	1.4767964	2.6667566	2.7646434
## 44	4.3172968	5.4116195	2.6583029	6.532468	3.9129947	4.6831013	4.4758437
## 45	3.6515225	2.7774723	5.1359863	9.143806	2.9694913	7.4651215	6.6449046
## 46	2.5423571	6.1940989	0.4485838	8.925084	4.2100069	5.7518359	6.8010733
## 47	9.1513540	2.4684530	3.1472578	10.125910	4.3032255	9.6973184	4.7054637
## 48	8.8464924	1.7272670	4.0530244	6.961587	4.3057225	8.5948587	6.9311748
## 49	2.5999366	4.1068592	5.3426472	9.718363	2.6147805	5.8916938	2.4739947
## 50	4.6237557	3.2774492	3.5396427	9.603990	9.4537180	8.0149673	4.5173954
## 51	3.4894530	1.3697736	1.3697736	3.256271	4.0466657	1.6861643	2.1652366
## 52	8.8884830	8.3495511	2.8828778	10.339738	4.5596386	7.5384582	4.2728891
## 53	4.1370034	1.2095158	4.6027538	11.229814	1.8580208	5.9625907	5.4589758
## 54	5.4531817	4.4313890	9.2155949	9.163887	4.0539628	8.6633254	4.1435648
## 55	9.5969165	4.9455656	2.9740704	10.177205	4.1208744	6.0046834	5.5054019
## 56	2.9877756	0.0000000	0.4924172	2.652808	2.4529117	2.9848081	3.1916732
## 57	3.9781224	5.6474613	5.6474613	9.787586	8.4208365	6.0526702	7.0496504
## 58	4.5035650	6.4135873	3.2216760	9.039869	4.9293460	7.6176746	7.1229201
## 59	1.4325853	2.5865246	3.5362892	2.784504	5.1834746	3.6077327	8.4716204
## 60	3.3660004	1.3885753	4.9885211	9.255202	3.7448500	9.7143371	2.9016682
## 61	9.0474923	3.3406050	0.0000000	11.259676	4.1733913	6.0604452	6.1057786
## 62	11.4813361	3.4318369	6.0632980	11.352786	8.5318185	7.3592453	5.2286571
## 63	5.4824385	3.6291934	6.4176821	10.908642	2.4863540	7.0091904	3.5646221
## 64	4.9814691	3.0060287	2.1076544	10.850392	3.4501819	4.6673472	4.0989332
## 65	2.6190138	1.6777112	6.2435834	4.173407	0.3503841	2.1933302	1.2476238
## 66	4.1949932	0.0000000	3.5804711	9.440168	8.6820444	7.0111042	3.0703550
## 67	5.2300108	4.3932308	2.5032978	8.488799	5.6543840	8.2152782	8.6484180
## 68	4.9269103	3.1838517	3.6803244	9.611117	5.0729804	9.8305380	6.9307255
## 69	5.8710896	5.6015272	3.1941186	8.876445	7.9492454	6.6883007	6.5346842
## 70	8.8378840	1.7705331	6.7337733	9.065374	1.9093507	8.7480553	2.9157886
## 71	9.3280028	2.1791607	4.3511265	10.673214	7.6497850	7.5582095	2.3759013
## 72	6.0202199	2.0166746	8.0616914	8.053443	2.7467642	7.5660510	3.9155113
## 73	5.8033355	3.9707984	8.3024338	5.949014	4.0625967	3.4651648	5.8364847
## 74	3.7213945	9.1097873	4.5301894	9.943131	3.4828870	11.8256958	2.8294843

## 75	5.9340376	4.4352885	1.5384388	8.800130	5.7888345	6.5401435	7.8084790
## 76	5.4578307	0.0000000	6.5865141	7.722524	2.2551683	6.8260832	3.2176495
## 77	4.9047827	4.1121413	3.7791651	6.662569	5.0026620	3.7246503	10.0184098
## 78	4.9498290	0.0000000	3.7423189	2.943621	7.7936586	1.4186757	4.4649492
## 79	6.3527373	6.3195096	4.5656215	7.218569	5.5665656	1.8388711	10.7016816
## 80	5.4345081	0.0000000	2.5544906	5.083358	0.4918018	3.8485078	6.3474991
## 81	7.6676204	6.8597708	2.5555708	8.540285	6.0419986	6.0841089	9.4190026
## 82	4.7466567	6.1138109	2.4568850	7.825686	6.4240403	5.3562882	8.9770472
## 83	9.5582068	4.0353512	0.8451086	10.698477	9.3188652	8.4946664	4.3861005
## 84	8.8333857	2.3722556	4.2089464	10.213935	4.1676229	8.3163024	3.0549700
## 85	8.6743462	1.2528395	4.5825500	6.549506	4.1372986	5.8576029	0.3523066
## 86	8.2159702	0.2980717	5.0093024	10.041353	10.4832844	8.1282398	0.5448810
## 87	4.6803131	1.5766672	0.4119685	4.184629	3.1588702	9.6960747	4.7780771
## 88	4.0443329	0.9953036	7.5414498	3.849279	1.3163196	0.5818815	5.8237086
## 89	5.4218191	1.8010345	3.3957209	10.221689	1.9630672	4.4122396	0.4998841
## 90	3.7347963	1.8209346	3.6613164	10.660332	0.8154935	6.7968742	3.3024360
## 91	2.1206505	1.2834477	4.7059005	7.195465	2.1970791	8.1673308	3.3676926
## 92	5.3230494	6.9806994	4.0999937	5.845969	4.9910184	6.4350668	6.9496248
## 93	3.7388435	3.0797194	3.4809372	7.918356	2.3408756	5.8894833	2.6828879
## 94	4.7701154	3.0789343	2.9241569	7.761856	7.3143902	5.0231932	7.1725925
## 95	3.9970123	0.8705028	3.9665135	5.834072	2.8777639	8.4759531	3.8331330
## 96	2.3432657	1.2159270	7.2419288	10.168168	1.4667054	9.0940106	2.3128684
## 97	1.5084794	0.3774014	1.8841681	5.317434	2.1008095	2.7402368	7.4638374
## 98	3.4096353	1.0261627	4.8226231	7.709856	3.7108340	5.5951247	4.4869460
## 99	3.3264654	0.0000000	3.9651655	7.244427	6.2235558	7.8241925	4.4577256
## 100	6.5704933	1.3067872	6.3059450	9.331202	7.0517158	9.4280178	1.7893537
## 101	2.5883968	1.3564256	6.9902492	8.976509	8.6455857	2.9564284	7.5743808
## 102	2.6480052	1.1375035	3.4059924	7.598425	11.0764148	8.4437724	0.4854268
## 103	10.0240027	3.0023425	5.6008793	10.117474	7.2445960	8.4114284	1.2008182
## 104	7.3897569	2.0334759	5.5904134	10.250364	8.9497503	8.1965859	4.4770556
## 105	2.1532217	2.3535209	0.7869309	8.258154	1.6673472	11.4518010	4.7086342
## 106	0.8279003	5.9159893	3.8518490	8.817096	5.3794893	5.3902790	2.6583029

## 107	4.1890655	5.4963761	2.7631991	10.098309	2.9771883	7.9611852	1.0603241
## 108	3.3588604	2.0676043	6.6472900	9.977125	9.1453007	3.9277448	1.1114988
## 109	6.3043468	3.8884997	6.9895012	7.297970	4.3646635	5.4369946	5.4369946
## 110	6.8327723	7.1366897	6.4674702	9.927858	2.4127002	8.9010053	1.7349589
## 111	9.2049917	1.3708896	7.2896215	9.948819	2.5257933	7.5632687	8.0039996
## 112	4.9993777	2.3688801	1.8070251	8.094948	5.3274862	6.9184161	4.4480287
## 113	1.1573025	1.9315318	8.0420166	7.320357	5.5119771	7.1097053	0.4875892
## 114	4.3131370	5.6510861	1.7353055	5.779000	6.3726666	9.5981331	2.6609514
## 115	3.0293999	0.6786128	5.1631968	3.633501	2.8085086	6.7774381	2.2026998
## 116	8.3711711	0.0000000	0.0000000	4.452048	2.5596386	7.6907914	3.4317700
## 117	1.3222743	1.7857598	2.2977197	11.437408	11.7640884	7.8355287	4.9818435
## 118	3.0059568	1.1694120	5.9149926	6.902988	2.0436945	8.7569072	5.5613597
## 119	5.2734488	8.9809804	1.6114085	10.835270	8.5590528	5.8968313	3.9438088
## 120	1.7905218	0.0000000	4.2951279	11.310912	2.3197624	8.0844284	4.5622058
## 121	8.5654053	3.1214796	4.5077312	10.359854	5.4309075	5.2537813	6.7171815
## 122	4.7934902	2.8618363	1.6275135	8.303167	2.7165081	7.5004228	3.6828317
## 123	0.7771988	5.5449088	0.0000000	10.356337	2.3004459	6.6106602	3.5926962
## 124	5.0580567	1.5041119	6.2535809	8.677105	1.9087361	10.3699397	7.0242587
## 125	3.1452536	1.2640560	7.8708560	9.693474	6.2266761	7.3575133	1.6792436
## 126	1.8044253	0.8825257	6.7168044	10.918423	3.1030779	2.3835246	3.3012950
## 127	5.7632947	1.9430586	7.6450402	9.964276	2.1879261	6.0462291	4.9483485
## 128	4.3441539	2.7564896	7.3920297	9.484551	8.9646198	7.1027841	1.5922059
## 129	0.0000000	5.4519298	4.0819020	7.468576	2.6895899	6.7426907	3.3540713
## 130	3.1481369	1.1647219	8.0881909	4.028233	3.2769433	10.9507510	3.5044679
## 131	3.0865460	2.4012755	6.6924663	10.082830	2.3003581	11.3566401	1.8066128
## 132	4.9016682	4.2690556	2.8264773	8.394780	7.5822353	8.3550603	5.8798920
## 133	4.4748708	2.3004752	8.1137995	5.775809	3.4864698	9.2497627	4.4468385
## 134	6.0210444	4.2515525	5.6958463	10.021050	7.7891000	7.7693453	6.2287437
## 135	9.7889385	1.6507646	2.1252874	8.310236	2.7010832	9.2160236	3.3464605
## 136	3.6365086	1.4383461	5.4083960	9.660063	2.2773302	6.3236151	3.7439996
## 137	8.9411010	6.5673857	2.7975111	9.769009	2.7229468	8.0949169	4.6328208
## 138	9.2758517	0.0000000	1.7239953	2.411155	3.3925785	4.0979815	5.9618618

## 139	2.8875253	2.2892148	6.2205254	3.696283	0.3775125	8.0039445	2.7403232
## 140	5.0560199	5.5600943	6.4715354	11.870716	0.8793921	4.0101890	0.5056877
## 141	3.5107847	0.4881036	3.5691994	8.383405	0.8521587	7.1690702	5.8215980
## 142	1.9792205	2.3740935	5.8711512	7.922637	2.2736651	6.6838929	1.0328061
## 143	9.4802023	2.4135399	5.5373675	2.834125	3.8423956	6.1490683	3.9473015
## 144	3.6405168	0.0000000	1.4865599	4.283374	2.7776196	7.9218159	0.5366498
## 145	1.5229095	3.0866139	3.3539725	2.060359	2.7581752	3.6138145	1.2876496
## 146	5.7515146	1.9344033	6.0830453	8.325753	0.5562087	7.0773990	1.2696915
## 147	8.1470889	1.3058538	5.1833396	10.573783	5.9987123	4.6815505	4.3320276
## 148	0.0000000	0.0000000	2.5365254	4.954755	7.9206298	4.9824095	4.8384980
## 149	9.1154830	3.7314548	4.3206291	9.627851	1.0817487	7.3246333	4.0878447
## 150	3.7059447	1.2521128	4.0977456	8.609852	1.7238206	5.0144446	4.6410893
## 151	3.8310260	4.7860631	1.1802752	10.593848	9.0415833	7.5103077	6.5882184
## 152	0.0000000	0.8720801	1.1670367	8.367296	9.1447462	6.6766539	3.9179568
## 153	3.8655823	2.7572153	2.1559435	8.886902	4.6769387	10.4756804	1.1058122
## 154	4.9905510	1.9526318	1.5429514	5.307301	6.6604880	1.3756789	8.1703322
## 155	3.1770567	7.0930594	3.3957620	8.891194	1.6677559	9.9861252	3.2382519
## 156	6.1957196	0.0000000	3.9018516	6.360988	1.3186928	8.2961132	0.5831339
##	rs_CDSN	rs_CCL28	rs_C8orf85	rs_LOC84740	rs_MAGEA4	rs_ACE2	
## 1	7.2337433	5.3670180	7.5886877	3.2608085	0.0000000	2.6184266	
## 2	7.5689654	6.0286841	6.2570276	2.4181090	0.0000000	0.4448791	
## 3	6.4782810	7.2099485	6.2887904	1.9745293	0.4497462	2.3287790	
## 4	4.4842477	6.5637012	6.3661946	2.4451440	0.0000000	0.8535167	
## 5	7.3837587	6.6215288	8.3446896	2.3143775	0.0000000	0.4815056	
## 6	3.6335242	9.3054751	6.1073970	11.2327941	0.0000000	8.5525972	
## 7	4.1041270	6.8949390	9.0833671	7.9993585	0.4706150	6.6675459	
## 8	4.6830901	5.2292880	13.5106404	8.5078949	0.0000000	3.2242873	
## 9	4.5447697	2.8549133	8.5982152	4.4807434	1.0279325	3.1363883	
## 10	5.2661194	5.1046721	10.7735017	1.1519887	0.0000000	1.1519887	
## 11	1.5885168	11.9745649	11.2343165	1.4201320	1.0026665	0.7390704	
## 12	9.7540368	5.0389409	7.7913824	2.9436963	2.8680941	1.8457911	
## 13	4.7711831	8.7302188	10.7479438	11.2734792	0.0000000	0.0000000	

## 14	7.9944745	7.7513914	11.0918554	1.2268168	0.0000000	2.5088596
## 15	6.3212751	4.7593210	9.8923188	7.0690340	0.0000000	0.0000000
## 16	7.9615626	6.5002396	9.9771683	1.2564069	0.0000000	1.2536263
## 17	3.5174647	3.5174647	7.5568202	3.2318317	3.7141026	2.5889724
## 18	5.0967173	3.1728555	13.3675725	2.7565750	0.0000000	1.7185260
## 19	4.6804031	7.3828350	8.5679663	1.7203222	0.0000000	3.1270059
## 20	9.2628148	6.9509209	9.6070482	1.4474734	3.4671360	1.8426169
## 21	6.3310531	6.1461135	8.6631994	1.7763567	3.6206568	7.2512173
## 22	4.2879007	1.1606621	10.8732858	7.8263445	0.0000000	1.7954345
## 23	6.6823893	5.5445441	6.6421485	3.5105442	0.0000000	2.3889610
## 24	6.5048905	5.4794537	9.1010373	8.9766274	3.8008067	6.5048905
## 25	7.7444645	4.2763627	5.6717406	3.1294644	0.0000000	1.3852101
## 26	2.9366285	6.8877080	12.3405995	1.3785671	2.8326268	0.3405053
## 27	6.0268819	8.7078592	8.5757642	1.9561310	0.0000000	2.5015156
## 28	7.6906678	2.6754998	5.8834033	2.1138672	1.4103411	0.0000000
## 29	7.1254062	7.1803936	7.0811404	2.9379093	0.0000000	1.3258469
## 30	6.3703596	8.8964145	6.9009912	2.4503535	0.0000000	3.3628345
## 31	7.9317250	6.7372852	4.9071406	2.8799606	3.9728121	2.7142675
## 32	7.0468850	8.1308187	7.6460056	2.3872522	0.7670615	1.0374525
## 33	5.5989368	8.5165443	6.1597180	3.0183493	0.0000000	3.4947740
## 34	6.1945934	7.3094145	9.7297458	2.4330128	0.0000000	1.2100771
## 35	3.5821826	7.9625774	8.8575497	2.5316435	3.6677446	11.9322376
## 36	4.2453435	8.1636235	8.5795554	8.0647546	8.5050739	5.6977627
## 37	6.5740197	6.8301691	8.2420546	2.4084673	0.0000000	0.5165195
## 38	5.0717541	4.8504794	6.6722825	1.4279815	2.5316435	1.4264795
## 39	2.6472454	6.4354903	8.3968822	2.9248790	0.0000000	2.6472454
## 40	5.7197858	10.3549175	13.1825125	10.3978388	0.0000000	1.6995072
## 41	2.5643050	8.7234302	7.1552605	2.3975839	6.2297475	6.7213672
## 42	2.5531147	5.9640289	10.8606612	2.5558652	0.0000000	5.7894111
## 43	12.2762493	6.9019674	10.3572710	3.3757762	12.9715810	5.6059684
## 44	2.6583029	5.9816792	11.9643407	2.2508706	0.0000000	2.1498447
## 45	7.4123658	5.6799980	9.8958535	6.0333107	0.0000000	2.5559143

## 46	7.6021956	5.8645007	6.2846270	2.9207506	0.0000000	1.4975868
## 47	4.0634598	5.9415641	6.6241316	2.8803721	0.0000000	1.8955741
## 48	6.3246432	8.5036497	10.6544087	2.7011054	0.0000000	4.1264526
## 49	5.0016401	7.0719139	8.7945861	2.7491481	0.0000000	0.3614315
## 50	8.8813260	6.3940082	8.7264849	3.3278311	0.0000000	0.7173858
## 51	4.4948188	12.2225535	7.9896420	5.1808043	10.4073714	4.5543924
## 52	3.2879598	10.7033087	8.7040655	1.3766793	0.0000000	0.0000000
## 53	4.9009199	7.3320930	10.4098947	2.9879757	0.0000000	1.2095158
## 54	6.9262462	6.7424833	11.7186287	2.6635040	0.7735744	0.0000000
## 55	5.1288419	10.2917858	9.2323658	3.0330705	0.9218171	1.1326426
## 56	3.0571036	1.1508846	9.6217197	1.6032168	0.4924172	3.2545185
## 57	7.8387363	9.6786177	7.3049481	3.3788445	0.0000000	3.8803035
## 58	8.7565186	8.8998273	8.5648080	3.6147216	0.0000000	3.0085048
## 59	5.2850396	10.6653163	10.0574637	11.0130122	0.0000000	4.9964927
## 60	10.2537025	8.7780821	9.9227192	1.2367069	0.8552722	1.3885753
## 61	3.9642600	5.8405564	7.0660741	2.2197726	0.0000000	1.7802261
## 62	0.3748447	7.7576520	5.7177641	3.1263782	0.0000000	1.1288873
## 63	2.2603870	4.8926290	12.8287818	1.3951725	0.0000000	0.0000000
## 64	7.3319542	7.8699540	8.1560158	3.3430809	0.4994760	2.1076544
## 65	8.0833304	3.4088885	6.3050622	10.8438549	2.1933302	4.8599348
## 66	6.5823603	3.6451021	7.3701634	3.4798643	0.0000000	0.6304987
## 67	5.2488650	9.1792102	8.3273887	2.0019103	0.0000000	3.6253757
## 68	6.2052752	6.4038267	11.2871664	2.9782872	0.0000000	2.0393139
## 69	5.9202028	9.4527114	9.0953158	3.6274551	0.0000000	2.9622714
## 70	1.6169693	6.3988292	9.8619918	2.9827107	0.0000000	0.7562547
## 71	6.1254321	10.5451216	5.7172679	2.4394370	0.0000000	0.7326599
## 72	4.7492607	6.5707574	7.6532363	2.4825127	0.0000000	1.5380415
## 73	4.1063986	4.2499990	10.7056931	8.2732725	0.0000000	1.8380643
## 74	10.5821376	8.2091555	7.3919524	2.0781999	1.1133671	0.0000000
## 75	6.5645428	9.5351828	8.1538535	2.3634515	1.3714473	3.5982580
## 76	12.4537416	7.1435424	9.9744153	0.8144274	0.0000000	0.4619476
## 77	2.1903620	6.0592320	3.9313616	2.3487140	1.8261112	5.6550369

## 78	6.2972630	7.8740660	8.9619049	6.2261000	0.0000000	5.7694412
## 79	4.7427177	4.6860691	0.0000000	2.0403314	1.0221192	2.4954905
## 80	3.4261574	5.2619745	10.1553664	11.5618683	1.7812758	4.9569813
## 81	5.7334926	7.2222742	6.6996974	2.2965749	0.0000000	4.7732843
## 82	4.5789870	10.9374002	8.0078610	2.6795139	0.0000000	5.0193639
## 83	4.7976252	6.1833892	8.5761982	3.5083779	0.0000000	1.6432559
## 84	5.8559673	4.8678174	10.1420837	3.2709325	0.0000000	0.8345494
## 85	12.2454849	3.8357220	5.1640944	11.7601557	0.0000000	4.5316934
## 86	2.7520206	5.2370321	7.5894766	0.7556567	0.0000000	2.0746767
## 87	8.3770400	9.3734316	10.9653137	2.8676395	0.0000000	0.4119685
## 88	8.2830045	6.3570892	6.8672491	2.1674543	1.5787455	0.5818815
## 89	4.4940507	6.2470920	7.8166887	9.7882916	0.0000000	0.8704239
## 90	2.2629142	0.5912964	9.0132858	1.4755000	0.0000000	0.5912964
## 91	5.6779930	9.1512371	8.5602526	2.4115618	1.2834477	1.0535979
## 92	4.9072368	6.6349591	8.0631114	2.3805909	0.3774014	0.6763577
## 93	2.8276361	1.0118534	10.9320168	1.4316764	0.0000000	0.4209405
## 94	5.5586289	8.1356026	9.0012992	1.8406445	0.0000000	1.2825584
## 95	5.9673646	8.6306807	3.7467535	2.9341013	0.6343145	2.4376272
## 96	9.3218363	6.8754717	9.6303281	2.5529426	0.0000000	2.5485846
## 97	3.0315716	9.1382718	11.0565616	2.1058122	0.0000000	5.9332823
## 98	4.3712731	6.4887142	7.5407929	2.1611460	0.0000000	0.0000000
## 99	4.3267746	3.9942176	8.6154358	2.3655526	0.3981314	0.7098200
## 100	8.2485889	8.9887804	6.1845084	1.5705601	0.0000000	1.3067872
## 101	9.1881306	3.0946246	3.1798932	2.2193079	0.3335382	1.0287813
## 102	6.5637683	2.4329594	5.7602209	2.6350578	0.0000000	0.0000000
## 103	6.9883893	7.0909032	6.7199446	2.3683772	0.0000000	0.6035967
## 104	5.7544252	7.3074385	8.4150099	1.1137672	1.7313570	6.7462066
## 105	5.7472343	5.2929952	6.5708211	1.7762303	0.0000000	0.9761436
## 106	4.0280121	6.7066079	10.6793728	1.8113066	0.3923174	2.3399355
## 107	6.6970384	2.7631991	7.4544581	4.3741283	0.0000000	1.0603241
## 108	6.8640351	6.8676247	10.9728723	3.1003722	0.6601985	0.9034240
## 109	6.5562163	7.0145718	5.7068234	2.6668247	0.0000000	1.8769196

## 110	4.9358133	4.8385182	13.2437100	2.1187916	0.0000000	0.0000000
## 111	13.0415228	6.6205644	9.4444946	2.2737247	0.9648052	4.8380189
## 112	7.1728135	7.5289823	7.7572193	2.2513555	0.0000000	1.1696685
## 113	1.3831651	0.0000000	9.2483005	2.9715160	0.8513593	3.4128086
## 114	5.5522387	3.4128628	9.2604793	3.9413599	0.0000000	0.7360420
## 115	6.0544361	9.0153638	12.1547710	2.5401513	0.0000000	4.2492026
## 116	5.5349798	6.3157003	9.5042148	3.7510459	0.0000000	1.8523984
## 117	8.0625335	4.2192073	4.0375843	2.5041627	0.0000000	0.5749250
## 118	7.0799231	8.9201974	2.7271581	2.0502579	3.8193412	6.5651615
## 119	8.6492174	3.8781073	7.6613769	3.6635837	0.0000000	2.1459709
## 120	7.3982050	0.8467942	9.8216348	4.5382774	0.0000000	0.0000000
## 121	2.9628451	6.9358345	5.8375623	2.9661905	0.0000000	1.2383589
## 122	8.7332893	4.4979189	11.5790539	2.9320045	0.0000000	1.0320303
## 123	6.3067981	6.5293759	8.6770720	1.8111011	0.0000000	0.4403144
## 124	2.8929544	7.4676251	5.1779377	2.7753245	2.0217995	4.0803763
## 125	5.3018108	4.7458289	10.4096361	1.2652568	0.4859420	0.4859420
## 126	1.9828385	3.6792661	8.2331647	2.9563541	0.0000000	1.1797658
## 127	2.4914683	4.2313172	13.5343120	1.4760187	1.4742024	1.0475384
## 128	4.8397480	4.8966255	11.1442736	2.9386810	0.0000000	0.0000000
## 129	1.6307316	6.1588136	8.0576485	1.4207788	0.0000000	0.0000000
## 130	3.6060513	9.5935835	0.8701871	2.1137672	7.8706970	3.2139693
## 131	3.2578102	5.5225549	2.1918469	1.4810922	0.0000000	0.7771988
## 132	6.1600670	8.7646713	7.5288330	2.8335581	0.0000000	3.3420142
## 133	4.0278706	6.1474309	7.7997971	0.8393147	13.3296112	5.0357163
## 134	5.8007731	6.0305700	9.1443957	2.8131142	0.6795139	2.8711931
## 135	6.8649413	6.3685309	7.2683240	2.1283264	0.3848235	2.0204844
## 136	6.6465616	5.9573853	10.6796226	0.8914970	0.5134907	0.0000000
## 137	6.2664193	6.0162623	13.0341550	2.7283124	0.4330663	0.4330663
## 138	2.0591130	6.1314351	10.4876216	1.5951694	0.0000000	2.4872291
## 139	6.0289912	4.8486530	8.2660420	3.8266807	1.1350751	1.1350751
## 140	1.8151245	3.6729684	0.0000000	2.6928735	0.0000000	0.0000000
## 141	1.7720968	3.5691994	7.1322838	5.3691209	10.1511065	5.8917497

## 142	7.2377511	5.8625307	10.1937269	7.2434720	0.0000000	3.6842689
## 143	3.9806469	9.4710303	7.9502689	9.9714201	11.7583684	5.8395011
## 144	4.2496046	3.1142671	8.4332608	3.1217449	0.0000000	1.4865599
## 145	6.8292483	8.3995834	11.2728253	3.1427728	10.4837754	2.8761535
## 146	8.4838500	6.0112161	10.6525356	1.5291713	0.0000000	2.7321389
## 147	4.9963571	10.9882353	12.4994150	2.7874534	0.0000000	0.4521737
## 148	3.7660651	5.0880228	9.6262853	10.2222629	0.0000000	5.7661022
## 149	7.1236786	4.9610630	7.8401907	1.5183841	0.0000000	1.3154503
## 150	2.8048796	5.8143992	9.0226885	10.1245351	1.2521128	3.3522359
## 151	9.9890044	7.4860587	6.7394823	1.7177806	0.0000000	1.5973643
## 152	2.4768483	2.8534767	7.4508203	0.8720801	0.0000000	0.0000000
## 153	7.8852675	7.1801379	6.2385557	1.8845198	8.1751558	0.0000000
## 154	4.4418619	7.8792757	11.1743314	2.8910108	0.0000000	2.2713659
## 155	8.3388032	7.4660251	4.8043840	1.7908554	0.0000000	1.5385382
## 156	9.6402652	6.1032039	6.9889959	3.0860874	0.0000000	1.9959548
##	rs_L0C100124692	rs_HS3ST4	rs_PADI3	rs_AMY1A	rs_0XTR	rs_DEFB132
## 1	0.0000000	1.6516832	4.6183679	0.5144000	9.080063	5.3213762
## 2	3.5649390	2.8358432	1.2895984	0.0000000	5.505313	2.5096958
## 3	2.1017173	0.0000000	1.5002922	1.5002922	6.335281	4.2968758
## 4	2.0797706	0.8535167	0.4889263	1.7742494	7.223634	0.0000000
## 5	0.0000000	2.3109217	1.3700527	1.5757964	6.382129	3.0921567
## 6	3.9563169	0.0000000	3.8565376	7.4534674	8.217621	0.0000000
## 7	0.8248086	4.3421778	0.0000000	7.1512622	7.289266	0.0000000
## 8	7.0717884	6.2890469	0.0000000	6.9793932	7.376553	0.0000000
## 9	3.8587966	0.0000000	1.0279325	0.0000000	5.973294	0.0000000
## 10	1.9455702	0.0000000	0.0000000	1.1519887	7.955946	2.9866112
## 11	1.2253983	3.0635547	5.7952812	2.5068558	6.990150	4.2780442
## 12	3.0076082	1.3118518	1.3118518	0.8001648	6.906614	4.5612834
## 13	5.4416129	0.9433588	0.0000000	4.7711831	5.559250	0.0000000
## 14	0.7400209	5.0518767	3.1767855	2.8139761	10.267844	2.1214133
## 15	0.4407396	0.0000000	2.5854914	1.6525094	7.022215	2.0757722
## 16	1.9141052	0.0000000	1.2536263	0.5474498	7.151869	6.0357427

## 17	1.4180280	0.0000000	5.1578118	0.5039593	5.475030	4.6339775
## 18	0.0000000	0.0000000	5.1597139	1.3375969	5.929471	4.7115224
## 19	2.1500072	4.4726827	1.4431823	2.2402838	8.632926	0.3634515
## 20	1.5906260	0.0000000	6.4129085	0.3644604	6.646050	0.0000000
## 21	0.4891319	0.0000000	5.4785803	3.1813888	7.032945	5.8953220
## 22	3.3885753	0.4976379	7.1649481	1.1606621	6.517427	0.0000000
## 23	0.5566992	0.0000000	0.5566992	5.7223349	7.844489	0.5566992
## 24	0.7984238	3.0040879	1.5099998	5.9624680	5.892381	0.0000000
## 25	0.4031586	0.0000000	0.7179122	1.9641398	5.819081	0.4031586
## 26	1.9740520	2.0686708	4.9457809	0.0000000	6.776483	2.0686708
## 27	2.5901229	3.3171593	2.3061164	1.0538064	9.279649	4.6864389
## 28	3.8756621	0.0000000	1.6194130	3.2786836	5.111662	0.5002922
## 29	0.3800645	0.0000000	1.4895943	1.3258469	7.230470	0.9291092
## 30	3.9531442	3.1377658	4.3180854	2.6325242	13.158395	3.6457823
## 31	0.4826418	0.0000000	5.8334923	1.3725621	6.107349	3.1613395
## 32	1.2651368	0.7670615	0.7670615	1.4617381	5.616775	1.2651368
## 33	5.3460385	3.1933617	3.7053034	3.1933617	10.194437	3.8540854
## 34	0.0000000	1.6731493	0.9074291	1.2100771	5.950891	1.8587767
## 35	0.4498519	0.7922723	2.6141444	0.7922723	4.848413	3.6677446
## 36	8.1871056	2.8050241	2.8050241	5.4661018	8.890362	1.6502131
## 37	2.8128473	4.6986463	4.0441493	2.2851950	7.840169	5.0568349
## 38	0.0000000	0.6439485	5.8036223	1.5700743	5.626004	1.4264795
## 39	0.0000000	0.0000000	0.0000000	1.6751836	7.845587	1.8609231
## 40	6.9763602	1.1918784	2.6177921	5.0770421	5.195564	3.5751187
## 41	2.7158934	0.4088205	2.4820996	3.3468293	5.590398	0.0000000
## 42	1.0865120	0.0000000	0.0000000	3.6987963	5.928984	0.4589069
## 43	0.0000000	4.4854204	1.8777442	10.3280471	6.036626	0.0000000
## 44	0.7004397	2.7945198	6.0099406	0.7004397	7.716932	4.1849785
## 45	1.5617905	1.7824924	1.5617905	0.5733745	5.408838	5.5356797
## 46	0.7903550	1.2980131	4.0603414	5.5644026	6.363432	0.0000000
## 47	0.6822137	0.3810618	0.0000000	1.4925198	4.950814	2.1128002
## 48	4.3876452	3.7150807	5.7666270	2.9343278	11.400708	0.9004128

## 49	0.0000000	0.0000000	1.2772111	2.2331518	6.785804	3.0709388
## 50	3.9233204	1.5521311	1.1942762	0.4028313	7.623158	3.3245802
## 51	0.3971458	0.3971458	2.9362139	9.6029141	5.552875	0.0000000
## 52	1.6440408	0.0000000	0.0000000	0.8455904	6.052155	1.3751785
## 53	1.7211539	1.7211539	4.1749816	1.4009204	8.157324	3.4388384
## 54	0.0000000	0.0000000	2.3942946	0.4380799	7.461520	1.0456526
## 55	3.2246886	2.0975097	1.7592411	0.9218171	6.157119	5.0914798
## 56	0.0000000	0.8589358	3.7667966	5.6620289	4.756885	0.0000000
## 57	6.1365400	6.5239665	2.5098985	4.5256931	11.856900	4.7744497
## 58	4.7520528	4.3377111	2.6883370	3.5718345	10.093252	3.5718345
## 59	8.8338189	0.9134160	6.6346267	6.5002826	7.485195	0.0000000
## 60	0.0000000	0.0000000	10.6107229	1.3885753	7.349550	3.4916992
## 61	3.6513502	1.6463470	0.9358369	3.3406050	7.982978	3.5425181
## 62	1.7543317	0.6721085	0.3748447	0.6721085	7.538017	1.4752406
## 63	0.6244285	0.3457370	1.9923334	1.2351143	4.994186	1.7812338
## 64	0.4994760	2.5764738	0.8698714	0.8698714	7.877588	6.4710574
## 65	2.8171525	2.4325052	0.0000000	10.2305817	7.767471	0.0000000
## 66	0.6304987	0.3494785	0.3494785	0.6304987	6.249715	2.1899510
## 67	4.2488384	5.0306804	2.1162317	3.1707743	11.428100	2.8081791
## 68	2.0393139	2.2426330	0.9509909	2.2426330	8.809295	3.8763991
## 69	3.0437644	4.7079609	2.7840223	4.5355553	9.161278	0.9303967
## 70	3.7069836	0.0000000	1.0240359	1.2498700	5.631713	2.3602238
## 71	6.1747160	0.5271704	3.4784024	0.7326599	5.692868	0.5271704
## 72	0.4655044	1.7158055	0.0000000	1.0992279	6.030257	2.5730109
## 73	2.8441446	0.0000000	0.8258670	3.1253205	5.390520	1.9384364
## 74	0.3683772	0.0000000	0.6614760	1.7341785	4.897037	1.4569113
## 75	3.2100771	5.8456883	3.8412989	3.9038385	12.974526	4.2063541
## 76	0.4619476	1.0923428	1.8646517	0.4619476	6.042465	1.3274574
## 77	2.7226409	2.6068212	3.3455383	2.9296206	6.460533	9.7868951
## 78	7.9025952	0.0000000	0.0000000	3.4202803	6.247291	0.0000000
## 79	0.0000000	0.0000000	2.6216651	1.0221192	3.947947	7.3656007
## 80	8.4642946	0.8579014	1.3922625	7.5597319	7.055498	0.0000000

## 81	1.7821989	4.4580932	2.1425115	2.2937236	10.968539	10.0022333
## 82	7.1990461	6.9335644	0.5350576	4.9992514	13.080481	7.8651202
## 83	2.2377167	2.3166961	1.7609448	0.6143800	6.545060	5.0380674
## 84	1.0316775	0.0000000	1.7441180	1.2050797	4.979490	3.8912345
## 85	2.8801761	0.0000000	0.8717648	7.5735578	10.769798	0.3523066
## 86	0.2980717	0.0000000	0.0000000	1.1025238	6.741627	5.3304939
## 87	0.4119685	0.0000000	0.7319652	1.5766672	5.552598	2.4049304
## 88	0.0000000	0.0000000	0.5818815	0.0000000	5.057021	2.1626612
## 89	0.0000000	2.7650467	0.0000000	0.4998841	8.864367	6.3964061
## 90	0.5912964	0.0000000	0.3257318	3.9484700	5.453162	6.2035849
## 91	0.0000000	0.4421208	9.2368905	0.0000000	6.133407	1.4817123
## 92	0.6763577	0.0000000	0.0000000	1.6291468	4.848548	1.1350094
## 93	0.4209405	0.0000000	2.1336950	1.4298570	5.961852	0.4209405
## 94	0.6536104	2.7507566	1.7190958	0.0000000	5.851337	1.4431823
## 95	1.5521803	0.0000000	1.8010759	0.0000000	5.902257	2.9822726
## 96	0.0000000	0.9121900	1.6802343	0.5270703	7.190592	6.3906264
## 97	3.4812343	0.0000000	0.3774014	3.2738441	4.173567	0.3774014
## 98	0.4281424	0.0000000	1.0261627	2.1555550	4.840131	3.8896390
## 99	0.0000000	0.3981314	4.9630070	0.7098200	5.193468	0.3981314
## 100	0.0000000	0.0000000	1.3067872	0.9873936	5.260767	5.8820267
## 101	6.0561435	0.8320393	1.9489372	1.3564256	5.368492	0.0000000
## 102	0.8479969	0.0000000	5.8826430	1.5849625	6.482203	0.4854268
## 103	0.0000000	0.0000000	1.7388543	3.3716425	6.109609	3.5096452
## 104	2.4958998	0.0000000	3.6106174	1.5527213	5.647179	2.1636919
## 105	0.9761436	0.0000000	1.1433934	0.0000000	6.296835	3.8620843
## 106	0.9542708	0.3923174	2.1498447	1.1699891	6.205905	2.7280076
## 107	1.0603241	0.0000000	0.7854250	1.0603241	6.640609	6.1462907
## 108	0.3675947	1.1114988	2.8843635	3.0949792	7.155863	1.7317915
## 109	1.2243490	3.3088414	0.0000000	0.9191494	6.294882	1.6903724
## 110	0.9985566	0.0000000	2.8048796	1.4132149	9.935720	3.3193289
## 111	1.3708896	1.5378427	8.2923216	5.6397502	8.511341	2.5257933
## 112	2.5845777	2.4807563	1.8070251	1.1696685	7.671388	1.1696685

## 113	0.0000000	0.0000000	0.0000000	0.0000000	5.767604	1.5900031
## 114	1.2210109	0.0000000	0.0000000	1.8727106	7.067289	0.4144603
## 115	0.0000000	0.6786128	7.3232656	2.2026998	7.496394	0.0000000
## 116	0.0000000	0.7248249	1.9772066	0.4075159	6.291860	0.9848445
## 117	2.2240403	1.1531568	0.0000000	0.3159140	5.883061	2.5597365
## 118	0.0000000	3.0866649	5.6715425	0.7000845	3.819341	0.0000000
## 119	2.2535355	0.4250295	2.7706388	0.4250295	7.471143	1.9033083
## 120	0.0000000	0.0000000	0.0000000	0.6156988	4.932855	5.3828056
## 121	2.4675403	3.5697949	1.2383589	0.9306995	9.169897	1.4918018
## 122	2.3728407	0.0000000	1.0320303	1.6275135	5.686610	1.9208268
## 123	0.0000000	0.0000000	0.4403144	3.6347559	4.062165	3.2030758
## 124	2.4019854	1.1534162	1.1534162	1.3394225	5.371698	1.1534162
## 125	0.4859420	0.8487982	3.6796715	1.0008654	5.834592	3.0015140
## 126	0.0000000	0.0000000	0.0000000	2.3835246	9.447595	2.2619219
## 127	0.0000000	0.0000000	4.1176867	1.0475384	4.997365	4.7904489
## 128	2.5591981	0.3650206	1.5922059	0.8980922	8.469676	4.6376972
## 129	0.8786861	0.0000000	0.0000000	0.0000000	4.777046	0.0000000
## 130	0.0000000	0.0000000	7.5200450	1.8006204	4.885701	0.0000000
## 131	0.0000000	0.0000000	8.1606454	0.0000000	6.097017	3.5492502
## 132	1.2052048	1.6673018	0.0000000	1.6673018	5.901062	4.5890444
## 133	2.1806571	0.4777809	5.1517979	5.2141598	5.836543	1.1229377
## 134	1.8903299	0.3793992	4.5946321	2.2046416	6.397817	1.8903299
## 135	1.7847971	0.3848235	1.3383388	0.3848235	5.596521	1.6507646
## 136	0.8914970	1.4383461	2.2773302	0.5134907	7.865118	3.4932374
## 137	1.6326405	1.9264170	4.2099991	0.4330663	8.196562	1.2633950
## 138	0.6561760	9.5226276	2.6939441	6.6109702	4.924547	0.0000000
## 139	0.0000000	0.0000000	4.5502789	0.9238718	6.660879	0.9238718
## 140	0.0000000	0.0000000	2.5940230	0.0000000	6.437000	0.5056877
## 141	9.8940342	0.0000000	0.8521587	11.1517489	5.726079	0.0000000
## 142	1.4559650	1.0328061	4.0907857	3.7228704	4.359381	3.4740076
## 143	2.4135399	3.2713809	1.0579701	8.1355923	4.967851	0.0000000
## 144	0.0000000	0.0000000	0.0000000	0.0000000	6.011849	0.0000000

## 145	3.6802118	0.3654686	0.6567252	4.7824400	6.994912	0.0000000
## 146	0.9565771	0.5562087	1.2696915	0.9565771	5.968508	4.0463252
## 147	0.4521737	2.2267859	4.5288963	1.0733404	5.424986	4.7423350
## 148	8.3581276	0.0000000	0.0000000	9.7868461	5.524126	0.0000000
## 149	2.2393980	0.0000000	0.0000000	0.0000000	5.700190	3.6904506
## 150	7.0821512	9.4891286	3.6977738	11.6446806	3.796733	0.0000000
## 151	3.7175832	2.2625835	3.1038501	1.3330802	8.419382	5.1160528
## 152	0.0000000	0.0000000	1.4117516	1.1670367	9.191594	1.8036404
## 153	0.4689482	2.9842430	10.7938991	0.4689482	8.682270	6.7310855
## 154	3.1136172	6.0249136	1.1864372	3.9992785	7.811243	0.7119354
## 155	0.3472121	0.8610819	2.5603726	0.6269530	6.438391	0.6269530
## 156	1.5813512	1.3186928	0.9973285	0.9973285	6.659989	2.1657190

##	rs_DPYSL5	pp_X14.3.3.beta	pp_X14.3.3.epsilon	pp_X14.3.3.zeta	pp_X4E.BP1
## 1	0.0000000	-0.065364828	-0.1736984765	-0.190751879	0.390806800
## 2	0.0000000	-0.029615457	-0.1575234880	-0.283581270	0.022243037
## 3	0.0000000	0.140562960	0.1927014580	0.211418232	0.134012919
## 4	0.0000000	-0.008031433	-0.1386421477	-0.122891406	-0.032011397
## 5	0.0000000	0.029801771	0.0532547775	0.312538834	0.702952903
## 6	3.6925946	-0.083869417	0.0213071785	-0.239253452	-0.193087518
## 7	2.6778916	0.366998485	0.2859408400	-0.471547732	-0.557513548
## 8	8.5433288	-0.085165132	0.0971634635	0.076269356	0.652106816
## 9	4.8082048	0.058627119	0.1596407085	0.007516144	0.580616487
## 10	0.0000000	-0.023017674	-0.0598711262	0.382441218	-0.063893307
## 11	3.7775039	0.001800327	-0.0103905320	1.102905103	-0.356291808
## 12	0.0000000	0.057123241	-0.0236040780	0.140542393	-0.465512398
## 13	0.0000000	-0.177906496	-0.1978709775	0.158512725	0.547805838
## 14	0.0000000	0.048006850	0.2300781345	0.381946028	0.487110787
## 15	1.0509544	-0.116435332	0.2063566605	-0.216609941	-0.099411460
## 16	0.0000000	-0.177390517	0.0436724675	-0.148750174	0.163996359
## 17	6.1460055	-0.063113589	0.0116494620	0.288678271	0.262219739
## 18	5.1127252	0.050218698	0.0286758530	0.522090676	0.196194895
## 19	0.3634515	0.057868093	0.0252581150	-0.168646089	0.318629632

## 20	6.6460503	-0.027398111	0.0179961075	0.080508619	-0.050110612
## 21	1.1445685	-0.139176652	-0.0734750960	0.238142381	0.375598145
## 22	1.4045762	0.012686576	0.3612923360	0.473127909	0.596906205
## 23	3.8733309	0.078041838	-0.0373806865	0.284039988	1.296887350
## 24	0.7984238	0.052488558	0.0832811660	-0.120331905	0.822612786
## 25	0.0000000	-0.010700612	-0.2618738720	0.029019424	-0.167078253
## 26	1.8728288	-0.031770872	0.0401066895	0.942819011	0.147254213
## 27	0.0000000	-0.114176079	0.0166437695	-0.213679363	-0.032120371
## 28	5.7453046	0.026439702	-0.0134283835	0.147376019	-0.240867494
## 29	0.0000000	0.516463017	0.5206709405	-0.350128172	-0.496861704
## 30	0.4557546	0.228613150	0.3343396200	-0.382222375	0.780850744
## 31	0.4826418	0.288835083	0.6495658115	0.365045750	-0.399402614
## 32	0.0000000	-0.141031684	0.0395789845	0.182330562	-0.224902477
## 33	0.7727302	0.195497210	0.3413364240	0.043455877	1.055683034
## 34	0.0000000	0.218442021	0.1912448940	0.103082094	0.167224882
## 35	0.0000000	0.012394058	0.0718581440	-0.088780148	0.130107719
## 36	1.6502131	0.125498976	0.1551537370	0.388321427	0.041248149
## 37	1.4446141	-0.134496030	0.0296558305	0.026783002	-0.133999347
## 38	4.2903064	-0.057380600	-0.0907220050	0.495723588	1.452962636
## 39	0.0000000	-0.033255466	-0.0802375800	0.341651518	1.475227414
## 40	6.1433383	0.557060074	-0.2348932215	0.011255148	-0.170886652
## 41	0.9876119	-0.268162061	-0.1803333780	-0.028466892	-0.113686103
## 42	3.6130719	-0.193715960	-0.2164320445	0.700147196	-0.181976901
## 43	3.9323069	-0.105390723	-0.0843594070	0.035950933	0.617320381
## 44	0.0000000	0.549822636	0.4111127285	-0.215572815	0.577258494
## 45	0.0000000	0.323994517	0.4226742920	0.561690517	-0.405860090
## 46	0.7903550	-0.091412938	-0.0143374905	-0.183200701	-0.104157754
## 47	0.3810618	0.088189908	0.1553539040	0.328617424	0.230796735
## 48	4.2844993	-0.011621245	0.0937779250	0.674443604	0.156670976
## 49	0.0000000	0.683495078	0.4036778600	-0.979517264	-0.802813967
## 50	0.4028313	-0.120303602	-0.0908660455	-0.289474897	-0.377580545
## 51	2.9362139	-0.156587962	0.0528218515	-0.087223858	0.388492157

## 52	0.0000000	0.861035692	0.6275151420	-0.691894984	-0.788145263
## 53	2.8549133	-0.108569839	-0.1219290510	-0.001364580	0.593861971
## 54	1.9403923	-0.112246721	-0.1337523490	0.950596681	1.614173306
## 55	0.0000000	-0.121470093	0.0768994660	0.358217414	-0.370738925
## 56	1.7828279	0.079755435	0.0848777525	0.081666999	-0.128473189
## 57	0.4448791	0.504802324	0.3202433565	-0.334140476	0.593157796
## 58	0.0000000	-0.198425535	0.0861117235	0.098404262	0.377351689
## 59	10.1411127	0.000609804	0.0200053740	0.485471457	1.502962633
## 60	7.0887607	0.264437111	0.4359768225	0.939675476	-0.143807046
## 61	0.0000000	0.139704252	0.0505440245	0.391691320	0.662640647
## 62	0.0000000	-0.022449238	0.1138140305	0.432829613	-0.444152651
## 63	0.0000000	-0.245507205	0.1197323350	0.923718581	0.624466780
## 64	0.0000000	0.711200203	0.3294094840	-0.172241248	-0.356124553
## 65	0.8676593	0.156496931	0.1170806902	-0.094827445	-0.456494614
## 66	0.0000000	-0.019899906	-0.2990868943	0.294963322	0.718547952
## 67	0.0000000	0.325473535	-0.0722757720	-0.197400018	0.066082226
## 68	0.3907777	1.109364009	0.3082437587	0.623918363	-0.804101240
## 69	0.0000000	-0.184229613	0.2204609570	0.313373356	-0.050120981
## 70	0.4270698	-0.275680473	0.0592063927	0.106843267	-0.059465145
## 71	2.8430995	-0.131556079	0.1451195128	-0.158677295	-0.123257621
## 72	0.0000000	-0.048670376	0.0759565195	1.314811142	0.523973343
## 73	6.0974760	-0.406136504	-0.1358927722	0.250172181	0.360429705
## 74	0.0000000	-0.075860019	-0.1172443090	0.225687222	-0.413244815
## 75	1.3714473	-0.168444760	-0.0111872545	-0.310812774	-0.087404750
## 76	0.0000000	-0.107811100	-0.4024612940	0.105342953	0.306211428
## 77	0.0000000	0.326397045	0.4612118155	0.292229797	1.079006690
## 78	3.5496076	-0.234470098	0.0768014230	0.059357039	0.079036507
## 79	1.3484591	-0.041600598	0.0355251295	-0.399620866	-0.395875868
## 80	1.3922625	0.191356211	0.1083440075	0.460200237	-0.292421039
## 81	0.0000000	-0.372726131	0.2285038560	-0.355995522	-0.234087298
## 82	0.5350576	0.401016351	0.0085320320	0.069526325	-0.082419263
## 83	0.8451086	-0.098256870	0.2869428075	0.114702078	-0.314467159

## 84	0.0000000	-0.096880711	-0.1384395773	0.063585341	-0.164539268
## 85	1.5540485	-0.444453535	-0.2456271198	0.455157390	0.031744129
## 86	0.9395275	0.486626206	0.3312883415	-0.080954738	-0.371566339
## 87	0.0000000	0.486772175	0.2950467467	0.675435256	0.307698344
## 88	0.0000000	0.050909820	-0.0980912080	-0.467192023	-0.609010047
## 89	0.0000000	-0.033465279	-0.0408213640	0.692328126	-0.280656293
## 90	0.0000000	-0.283451415	-0.1193891892	0.160414324	-0.184822381
## 91	0.7799741	-0.009722068	-0.2540785005	0.426690467	-0.507299491
## 92	0.0000000	0.045121386	-0.1920443285	-0.096486131	-0.329340697
## 93	0.0000000	0.164189171	-0.0164897235	0.507007806	-0.162753129
## 94	0.0000000	0.445624110	0.3711342652	-0.385896808	-0.733187910
## 95	0.0000000	0.032831163	0.0380769570	0.011990001	-0.346176153
## 96	0.0000000	-0.226219801	-0.1606813190	0.083472777	-0.443085104
## 97	2.2891262	-0.070114329	0.0467468562	1.173959038	1.162913021
## 98	1.2522945	0.004337476	-0.1819825195	0.787150034	-1.221512647
## 99	4.1572701	-0.231420896	-0.3873346600	0.570244575	0.961505811
## 100	0.0000000	-0.265935587	-0.4196807020	0.087370101	-0.605281190
## 101	0.0000000	-0.007116531	-0.0520469038	-0.403355723	0.745832161
## 102	7.1189411	-0.249358038	-0.0138889427	-0.057493263	1.078870849
## 103	0.0000000	-0.180732437	-0.2629781965	-0.525973846	-0.543444679
## 104	0.0000000	0.164727808	0.0472601680	-0.520491538	-0.112101093
## 105	0.0000000	0.045734461	-0.1641890945	-0.336520133	-0.085944384
## 106	0.3923174	-0.167735698	-0.0652785068	0.497323261	0.616777104
## 107	0.0000000	-0.243389447	-0.2825158220	-0.434798536	-0.283494886
## 108	1.1114988	-0.122144895	0.0226777025	0.010509744	0.519889255
## 109	0.9191494	0.216861726	-0.0025708540	0.174822293	-0.108135998
## 110	4.5208057	-0.057484872	-0.2901999910	0.212500810	-0.395278107
## 111	9.8366631	-0.156406518	-0.2900714115	-0.273565839	-0.042556694
## 112	1.4147309	-0.060757890	-0.0771622925	-0.329062519	-0.429026475
## 113	0.0000000	-0.015529744	-0.0141103725	0.911130042	-0.344643217
## 114	0.0000000	-0.114680005	-0.1029926445	0.406604445	0.128778908
## 115	1.1382247	0.123437707	-0.0258199620	-0.005254677	-0.350793479

## 116	1.2050797	-0.213281343	-0.0227077482	-0.355349338	-0.106424698
## 117	0.0000000	-0.068558405	-0.0039273687	0.010532757	0.365353588
## 118	0.0000000	-0.120596261	-0.3025577760	0.021702139	0.238108028
## 119	1.2451305	0.666835801	0.2737830360	-0.645180681	-0.677162129
## 120	0.0000000	-0.000465865	0.1403891880	-0.124438091	0.197196155
## 121	1.8947596	-0.062167138	0.0004113013	0.329334606	0.523055487
## 122	0.7626465	0.039621400	0.0650627575	-0.067282014	-0.549092625
## 123	0.7771988	-0.173469674	-0.1934799405	-0.138470760	-0.009049232
## 124	1.1534162	0.039851272	-0.1569672150	-0.327100377	0.095559879
## 125	0.4859420	-0.178056339	-0.3934077590	-0.105546669	0.336783078
## 126	0.0000000	0.141420044	-0.1125459335	-0.113886283	-0.321895634
## 127	3.2533237	-0.158530473	-0.3451401190	0.420167668	0.067776540
## 128	5.8435618	-0.168050223	-0.0949447255	0.034202045	0.528452719
## 129	0.0000000	-0.174990614	-0.2483815975	0.747041005	-0.206654110
## 130	1.6181447	0.084597718	-0.1901790295	-0.262411277	0.868422400
## 131	0.0000000	-0.126376751	-0.0413319925	-0.329191743	-0.249691307
## 132	0.9034240	0.133122243	-0.0772184330	-0.750742404	-0.177549449
## 133	0.0000000	0.033406611	-0.1492027055	0.217025027	-0.213804348
## 134	0.3793992	0.572564116	-0.4761010507	0.133999168	-0.735619409
## 135	0.0000000	-0.279993995	0.1180058597	-0.355159164	0.004405971
## 136	1.4383461	0.080501607	0.0560019562	0.411432803	-0.319760852
## 137	6.5405047	-0.010525416	0.0008208757	0.329951020	0.341353540
## 138	10.3981045	-0.039681604	-0.0530790370	0.513229858	-0.098157232
## 139	0.0000000	0.031944402	0.0575354190	0.504786735	-0.211048150
## 140	0.0000000	0.401306497	0.1655749307	0.109777062	0.694310241
## 141	0.0000000	0.030407174	0.0464603615	0.242469654	-0.086307613
## 142	1.2598449	-0.038999275	0.0252991488	-0.494570474	-0.226642753
## 143	8.0200799	-0.174115452	0.1019004873	-0.080153750	0.778161763
## 144	2.7776196	-0.216944155	-0.1006376415	0.069352970	-0.150523426
## 145	2.2471680	-0.184441137	-0.0280624790	0.018440839	0.062257264
## 146	1.2696915	-0.081136848	-0.0091856310	-0.267886120	0.293392390
## 147	0.0000000	-0.105753864	0.0068391545	-0.460982402	0.121163165

## 148	11.0468825	0.025887715	0.0995526955	-0.187896187	0.421223366
## 149	0.0000000	0.074830462	0.0827263240	-0.346155151	0.084846289
## 150	0.0000000	-0.087294065	0.0812394292	0.055148932	0.959960542
## 151	0.0000000	0.201237411	0.1173577340	-0.072526605	-0.535539467
## 152	0.0000000	0.021036734	0.0357483170	0.467912023	-0.196163856
## 153	6.6340080	0.041687304	0.0331105745	-0.312980967	-0.162884875
## 154	10.3554512	0.213983826	0.1221879383	0.072424086	0.234348164
## 155	6.2806798	0.040017369	-0.1134091737	0.075352864	0.404774851
## 156	0.0000000	0.229552206	0.2296735365	0.396690117	0.910539864
##	pp_X4E.BP1.pS65	pp_X4E.BP1.pT37.T46	pp_X4E.BP1.pT70	pp_X53BP1	
## 1	3.564318e-02	0.193453647	-0.170578989	0.283253217	
## 2	-9.212511e-02	-0.056990416	0.245442371	-0.172923996	
## 3	-2.334827e-01	-1.092606831	-0.287758359	-0.290588632	
## 4	-2.576116e-02	-0.455216473	-0.144672372	0.500916835	
## 5	-2.672917e-02	0.638111185	0.064882149	-0.488971914	
## 6	1.959246e-01	0.626700451	0.081578670	-0.034458414	
## 7	-4.136079e-02	-0.527894280	-0.063247067	-0.689197582	
## 8	-1.301032e-01	-0.246840038	0.150460630	-0.201753695	
## 9	7.903776e-02	-0.186441505	0.179718889	0.640919273	
## 10	-3.482532e-01	-1.024340150	-0.088446263	0.373650236	
## 11	-1.941599e-01	-0.492591866	-0.147187390	-0.140318796	
## 12	-9.761982e-02	-0.099335145	-0.117391210	-0.044766520	
## 13	1.660177e-01	0.055547897	0.052718251	0.194304250	
## 14	-2.303702e-01	-0.560701132	-0.052381665	-0.514728291	
## 15	-4.717038e-03	-0.321369575	-0.023175133	0.706377522	
## 16	-1.937984e-01	-0.485325800	-0.111944781	0.064387366	
## 17	-4.566206e-02	-0.460078912	-0.092801587	-0.809174288	
## 18	-1.086091e-01	0.097974840	0.070045801	0.737476608	
## 19	-2.592924e-01	-0.342000537	-0.078101033	0.911865347	
## 20	1.043748e-01	0.164375643	0.501732131	0.649230397	
## 21	6.458730e-04	-0.374864172	0.172363863	0.203363336	
## 22	-2.712746e-03	-0.750055113	0.103117484	-0.448234132	

## 23	4.627634e-01	1.453470642	0.530850523	0.433522623
## 24	-1.460366e-01	-0.966315956	-0.284872724	-0.571101707
## 25	-1.571444e-01	-0.357666111	-0.022158975	0.612070079
## 26	-8.088221e-02	0.506830673	0.152906341	-0.538021358
## 27	-2.150501e-01	0.150872980	-0.203684854	0.027892299
## 28	1.653982e-01	-0.197164292	0.006882967	-0.256040855
## 29	1.548275e-01	0.593567433	0.080396245	-0.566572938
## 30	1.713827e-01	1.028192504	0.379564126	-0.176851405
## 31	-2.156478e-01	0.617017556	-0.088583173	-0.455260398
## 32	-3.604628e-01	0.096641395	-0.013865693	0.064225215
## 33	3.709346e-01	1.486793924	0.637108688	0.114142355
## 34	-3.647011e-01	0.122030145	-0.161930068	-0.368286337
## 35	-5.224956e-02	0.202693000	0.187734525	-0.051623529
## 36	-2.547169e-01	0.344549359	0.031380086	-0.790712522
## 37	-2.780263e-01	-1.138762172	-0.452920528	0.159774840
## 38	1.811608e-01	0.587971598	0.586384157	-0.109157569
## 39	1.852498e-01	0.497971667	0.646247249	-0.140360082
## 40	-4.797469e-02	-0.473788002	-0.080831447	-0.343292398
## 41	3.695253e-01	0.555299613	-0.065578911	-0.444329082
## 42	5.356635e-01	0.335405995	0.008722495	0.044174740
## 43	1.556107e-01	0.172186533	-0.047037407	0.233521396
## 44	1.956515e-01	0.765066250	0.172956976	-0.052632601
## 45	-4.340713e-02	-0.035281477	0.040433779	-0.007959175
## 46	-1.677261e-01	-0.549225330	-0.221437671	0.591873279
## 47	-3.523544e-01	-0.099817456	-0.276450833	0.246986915
## 48	-1.591302e-01	-0.599084111	-0.067969522	-0.105245991
## 49	6.042160e-02	-0.202725123	0.362049632	-0.672867018
## 50	-2.664605e-01	-0.092990509	-0.032139163	0.769824192
## 51	1.898500e-01	0.510797351	0.176481253	0.294511362
## 52	3.241423e-02	-0.546561436	0.124489791	-0.897252492
## 53	1.443048e-01	0.817770579	0.260482992	0.481152604
## 54	5.729490e-01	1.994620953	0.891371059	0.851153523

## 55	-2.571915e-01	0.087203649	-0.088815080	0.812536054
## 56	1.810844e-01	0.824125846	-0.083915727	-0.254549827
## 57	3.475830e-01	1.077597083	0.343414242	-0.310046734
## 58	-9.932332e-02	-0.277801007	-0.275232672	0.541961787
## 59	3.068605e-01	1.306883962	0.535457837	-0.222159790
## 60	-2.679320e-01	-1.229858608	0.062331731	0.104319578
## 61	-5.512375e-02	0.914799676	-0.010828694	0.875599073
## 62	5.118894e-01	-0.983884247	-0.230668859	0.396772650
## 63	-2.236489e-01	-0.372539666	0.035007663	0.130185086
## 64	1.772689e-01	-0.293769126	-0.068730732	-0.782814843
## 65	1.683066e-01	-0.122391710	0.064403776	-1.057373540
## 66	2.208721e-01	0.914253311	0.294665730	0.920947573
## 67	7.585945e-02	0.069311253	-0.349820583	-0.710449368
## 68	-5.222020e-01	-0.472684936	0.328660275	-1.509957240
## 69	-4.653946e-01	-0.405732490	0.023264813	-0.154764308
## 70	-3.340964e-01	-0.553469093	0.009212465	0.135178638
## 71	-3.984889e-01	-0.246210111	0.117460322	-0.073489479
## 72	-2.874154e-01	-0.286913307	0.315799974	-0.206530762
## 73	2.725723e-01	0.774445261	0.176268792	0.036653103
## 74	-4.976535e-01	0.090303096	-0.184985169	-0.269635925
## 75	3.800515e-01	0.387280147	0.090750337	0.632726521
## 76	3.216182e-01	0.770464248	0.306596327	-0.300930854
## 77	5.578938e-01	1.773786184	0.588919385	-0.475688065
## 78	9.840035e-02	0.835275682	0.063085260	-0.174231294
## 79	-2.329920e-01	0.153538959	-0.223584369	0.507881915
## 80	-1.916976e-02	-0.481623162	-0.330580543	-0.427952220
## 81	-8.293891e-01	-0.872877720	-1.066349395	-0.089333997
## 82	-4.971448e-01	-0.164031592	-0.084955757	-0.707954127
## 83	-1.836670e-01	0.433417451	-0.162679970	-0.200370968
## 84	-4.589565e-01	0.115231905	-0.111065407	-0.215642778
## 85	6.771415e-01	1.073717972	0.236583293	-0.162772671
## 86	-1.228913e-01	0.127516401	-0.129886213	-1.031886250

## 87	1.741060e-01	1.053278348	-0.228733478	-0.550886485
## 88	1.619536e-02	0.502381798	0.054204779	0.125647156
## 89	-1.484845e-01	0.846101905	0.109833081	-0.083439423
## 90	2.158360e-01	-0.012778576	0.116275162	-0.338879920
## 91	5.165000e-02	0.330305664	-0.060131487	0.004221343
## 92	8.064186e-02	0.505198797	-0.012003178	-0.699998027
## 93	-9.311369e-02	0.425827510	-0.092655539	-0.707417962
## 94	-1.386842e-01	0.185103445	-0.340191092	-1.369698709
## 95	-6.190442e-02	0.291911327	-0.253826163	-0.010847570
## 96	-1.262894e-01	0.306667083	-0.114413108	0.029846854
## 97	8.378640e-02	1.111039649	0.002710727	-0.348132083
## 98	-4.970530e-01	-0.240627316	-0.634789471	-0.133980884
## 99	2.650994e-01	0.609961057	0.347735075	-0.345911815
## 100	-1.929350e-01	0.153305440	-0.006461118	0.377138929
## 101	5.252288e-01	1.244441884	0.363212041	-0.234694912
## 102	5.395504e-01	1.373274044	0.252017941	0.829778617
## 103	1.236147e-01	0.137188686	-0.292715084	0.193350342
## 104	-5.122680e-02	0.273894005	0.052949990	-0.370541666
## 105	-2.094653e-01	0.383441511	-0.068432819	0.021291449
## 106	1.563548e-01	0.942628608	0.140766023	-0.193301502
## 107	-8.364510e-02	0.326009844	-0.163819318	0.713654432
## 108	1.130436e-01	0.655914151	0.309409432	0.014414830
## 109	-1.386014e-01	0.706964949	-0.008805118	-0.375714661
## 110	5.511740e-04	0.376223755	-0.001218587	0.127333065
## 111	4.752864e-01	0.893039075	0.214073058	-0.177544678
## 112	-1.168607e-01	0.368357915	0.011050086	-0.108289139
## 113	4.996725e-02	0.415854058	-0.081288736	-0.553567089
## 114	-4.098186e-01	0.264871497	-0.202163152	0.271064498
## 115	1.942022e-01	0.616971703	-0.131745509	-0.554126086
## 116	-1.461983e-01	0.484744637	-0.158097981	0.145839757
## 117	2.548995e-01	1.477984689	-0.152147761	0.609333241
## 118	3.038008e-01	0.995320064	0.255823562	-0.037259385

## 119	-1.537146e-03	0.153971548	-0.072197154	-0.710511567
## 120	1.244825e-01	0.023374138	-0.009264647	0.630673730
## 121	1.725820e-01	0.865006806	0.065222712	-0.244167854
## 122	-4.056945e-01	0.366166827	-0.261874878	0.373456864
## 123	2.711502e-03	0.458241344	-0.099805743	-0.015689174
## 124	3.066016e-01	0.787431559	0.267996128	-0.127736218
## 125	2.067715e-01	-0.002421398	0.240757337	0.438769782
## 126	9.483988e-02	0.496809717	-0.002273236	-0.064039794
## 127	7.997526e-02	0.213871216	0.209426811	-0.066978069
## 128	2.535911e-01	0.915115290	0.335233176	0.524279660
## 129	-3.870280e-02	0.543090380	0.000000000	-0.921011313
## 130	6.988763e-01	1.546324328	0.598882845	-0.533105317
## 131	1.877761e-01	0.292936035	0.029381577	-0.435884355
## 132	-6.116523e-02	0.408378996	0.009008504	-0.304205644
## 133	-3.321873e-02	0.257281682	0.110756662	-1.152005979
## 134	-2.391658e-01	0.151693996	-0.431704158	-0.340410513
## 135	-2.447125e-05	0.336069329	0.068099954	-0.714121933
## 136	-2.233926e-01	-1.053691389	-0.313183748	0.177357317
## 137	-5.982913e-02	-1.137457468	-0.129026625	0.542608296
## 138	5.707575e-01	0.012900053	0.250861246	-0.084032847
## 139	-1.804510e-01	-1.288585881	0.051842383	0.137526512
## 140	-3.204449e-01	-1.384062189	0.074036045	0.021468910
## 141	2.968195e-01	-0.024958990	0.147343706	-0.370691844
## 142	1.849127e-01	-0.095425537	-0.015444256	-0.261002571
## 143	7.095601e-01	1.423660184	0.311428743	0.023281560
## 144	4.244003e-01	0.145522786	0.039770817	0.198219371
## 145	1.850421e-01	0.663379695	-0.012996563	-0.454837175
## 146	-1.467495e-01	-0.627128394	0.035599375	0.774309869
## 147	-1.161001e-01	-0.013947439	0.171299813	0.931627316
## 148	-8.893614e-02	-0.614652336	0.014603699	0.876297610
## 149	-9.583889e-02	-1.058615293	-0.163387256	-0.155830822
## 150	3.674349e-01	0.654367157	0.353477508	-0.513648314

## 151	3.145024e-01	-0.251750939	-0.415976721	0.269124786
## 152	-3.549963e-02	-0.063735796	0.022142988	0.620393446
## 153	-1.676941e-02	0.468107306	0.088562272	-0.038492782
## 154	2.366228e-01	0.931865571	-0.116370078	-0.369157589
## 155	4.367761e-01	0.896461288	-0.026304408	-0.192437185
## 156	1.578140e-01	0.965063462	0.392364905	-0.308661067
##	pp_A.Raf	pp_A.Raf.pS299	pp_ACC.pS79	pp_ACVRL1
## 1	0.023942643	-0.220959465	0.643560255	-0.195641959
## 2	-0.158132601	0.273482715	1.569646670	0.023644325
## 3	-0.114878622	-0.216302482	0.246972125	-0.006019124
## 4	-0.305537329	-0.164503849	1.499390548	-0.124894341
## 5	-0.079593369	0.320486534	-1.173423349	0.246159139
## 6	-0.372735416	0.227125124	0.021236075	0.413238451
## 7	-0.199601293	-0.030499588	-0.942137273	0.569494409
## 8	-0.065740554	0.172449755	-0.359981449	0.025485821
## 9	0.159639296	0.084118452	-0.317628334	0.060604905
## 10	0.108410147	0.095994195	-0.330028827	-0.129556683
## 11	0.268143666	-0.095387834	1.035682575	-0.005700844
## 12	0.088338331	-0.091901167	0.110863527	0.001980942
## 13	-0.040935739	0.031995501	-0.086305127	-0.379173436
## 14	-0.283947656	0.043724863	-0.777567296	0.069505038
## 15	0.063119517	0.018234902	0.608192920	-0.050361720
## 16	-0.256948657	0.401100335	1.047186724	-0.185912478
## 17	-0.280114796	-0.160582465	1.245394367	-0.103118778
## 18	0.247252469	-0.047106207	0.755996759	0.087658187
## 19	0.288252075	-0.303760156	-0.531338352	-0.084279197
## 20	-0.417609200	0.143798200	0.855316428	-0.048335537
## 21	-0.138375941	0.704304301	1.033976716	-0.012536737
## 22	-0.182815217	0.118411852	-0.331689594	0.054804733
## 23	0.167364376	0.068163166	-0.516310550	-0.156935235
## 24	-0.036392700	0.074312507	-0.506733920	0.260794649
## 25	-0.016205918	0.024006897	-0.181494773	-0.014909515

## 26	-0.125626434	-0.016072491	0.450101268	0.174434031	-7.679797e-02
## 27	-0.551834234	0.309585622	1.256724904	-0.213038985	-1.895761e-01
## 28	-0.078553683	-0.241217067	0.276371468	-0.044100969	-1.563366e-01
## 29	-0.644768405	-0.024617977	-0.758000837	0.218632628	-8.042490e-01
## 30	-0.451108312	-0.004833136	0.220622745	0.023613016	-4.482108e-01
## 31	-0.638636786	-0.195158704	-0.509102758	0.255297329	-9.721227e-01
## 32	-0.084233127	0.203364056	0.064496672	0.346765583	-2.039251e+00
## 33	-0.578298382	-0.051907241	-0.287971015	0.011961229	-1.550707e+00
## 34	-0.505596965	-0.115120161	-0.051337533	0.090425827	-6.841093e-01
## 35	-0.057950669	0.553106495	1.289190531	0.214920621	-1.905216e-01
## 36	0.188060983	0.178563200	-1.534350358	0.182602409	6.184321e-02
## 37	0.524018687	-0.039484507	0.304462379	0.276377578	-4.041617e-01
## 38	-0.135755122	0.297102266	0.299041745	0.131764226	1.313179e-01
## 39	-0.132997828	0.294069994	0.260283740	0.151699713	2.690123e-01
## 40	0.772525519	-0.104387202	-0.692974166	0.278829602	3.272488e-01
## 41	0.069262755	0.335702022	0.813936751	-0.355549463	-4.337480e-02
## 42	0.044919752	0.309062180	1.746159835	-0.149939002	-4.454936e-01
## 43	-0.263459016	0.344155836	0.610904491	-0.160113613	8.227328e-02
## 44	-0.669343297	-0.358589667	0.184837048	0.183315958	-6.720912e-01
## 45	-0.604827363	0.041789917	-0.040298132	0.455376870	-6.797154e-01
## 46	-0.373524504	-0.200207445	0.169741422	-0.127123179	2.568162e-02
## 47	0.595793408	-0.299117124	-0.009275706	0.291773956	-4.807321e-01
## 48	0.065731803	-0.173931534	-0.400862577	-0.093364077	4.326388e-01
## 49	-0.783904404	-0.065722316	-0.614469838	0.146765455	-6.283239e-01
## 50	0.479204968	0.109553580	-0.604535438	-0.155883212	8.958349e-01
## 51	0.169787970	0.380199734	0.976109192	-0.202146200	-7.679400e-02
## 52	-0.966977293	-0.116947187	-1.041672374	0.433836960	-8.055667e-01
## 53	-0.165888095	-0.104850530	0.378109802	0.261949781	7.914299e-01
## 54	-0.258736301	-0.048549656	1.258823286	0.013786674	2.231029e-01
## 55	0.185807895	-0.303064791	0.666199247	0.814954581	-6.345155e-01
## 56	-0.237997723	-0.001963222	0.517940691	-0.070280088	-3.120629e-01
## 57	-0.380044351	0.000000000	-0.107691725	0.424428609	-5.257522e-01

## 58	-0.385086220	-0.304417337	0.085655154	0.190554119	-9.272637e-01
## 59	-0.076305027	-0.491116021	0.111218684	0.536458474	4.187959e-01
## 60	0.126385782	-0.328350353	0.319824390	0.170350883	-1.991594e-01
## 61	0.073043191	-0.063606016	1.063048767	-0.115537172	-5.543481e-01
## 62	0.204556131	-0.227137054	0.946122653	-0.285873216	6.723346e-01
## 63	0.110242038	-0.228065773	-0.003374868	-0.058516552	1.836021e-01
## 64	-0.873352352	0.267395685	-0.881773714	0.397439853	-1.088421e+00
## 65	-0.218895791	-0.124040577	-1.324959611	0.294568798	-6.377461e-01
## 66	-0.170339851	-0.562211069	1.005223724	-0.255028283	-5.833482e-01
## 67	-0.398184176	-0.047627676	-0.376949629	0.164251209	-7.897727e-01
## 68	-0.041150108	0.053620743	-0.342252573	1.322282028	-8.785480e-01
## 69	0.135939685	0.563953170	-0.919103614	0.030953394	-2.502417e-01
## 70	0.093995450	0.272627755	-0.677398452	-0.144715542	4.602374e-01
## 71	-0.057354775	-0.010696101	-1.097706342	-0.021989243	2.718444e-01
## 72	0.031663527	0.379839078	0.491215030	0.042749774	3.333859e-02
## 73	-0.297865819	0.015908121	-0.231681539	-0.179999690	8.740659e-01
## 74	0.066666179	0.080401409	0.723810143	0.180789289	-1.441749e-01
## 75	-0.299511548	0.627324926	0.341468954	0.052692618	6.091341e-01
## 76	-0.095348420	-0.057830486	-0.726476019	-0.025772398	1.257947e-01
## 77	-0.095278536	-0.233740244	-0.390991215	0.207486384	-7.938790e-01
## 78	-0.126782489	0.464656358	-0.171487062	-0.347342408	3.726623e-01
## 79	0.257559961	0.097186395	0.087325017	0.032281925	2.433462e-02
## 80	-0.269430898	-0.038173780	0.191849142	0.134191093	-4.895266e-02
## 81	-0.266322086	0.283375225	-0.015704309	0.188168027	-1.947547e-01
## 82	-0.393641737	0.270632174	1.070309071	0.206707229	9.132096e-02
## 83	0.004425437	-0.079643059	-0.685381174	-0.010491846	-3.681697e-01
## 84	-0.008500078	0.912100341	0.144744488	-0.049436545	-6.119468e-02
## 85	-0.368924280	0.215152865	-0.082088051	-0.079321725	6.415171e-01
## 86	-0.222860031	0.075017338	-0.284142163	0.352018079	-1.802018e-01
## 87	-0.257839431	-0.031570469	-0.070717008	0.132211424	-1.097674e+00
## 88	-0.051661161	0.476603530	0.172357836	0.047780778	3.078093e-01
## 89	0.122926686	0.502191404	0.235661177	0.078969191	2.430860e-01

## 90	0.200501820	0.102479521	2.430672640	-0.156032117	3.123314e-02
## 91	-0.225574900	0.129705037	-0.293908459	-0.080052532	-2.987090e-01
## 92	-0.153243780	0.242062954	-0.477647282	0.000596358	-4.438800e-01
## 93	0.007554018	-0.191287625	-0.299258109	-0.165414554	-3.242822e-01
## 94	-0.279278693	-0.002196964	-0.242691603	0.315079373	-9.459906e-01
## 95	0.122946473	-0.077330335	0.124571072	-0.160447857	3.579936e-02
## 96	-0.101474217	0.095091068	1.422907073	-0.199857079	1.769844e-01
## 97	0.035825440	0.518743288	-0.351853142	0.207288970	1.040528e-02
## 98	0.866682315	-0.026797848	-0.327976520	0.460785679	-7.538479e-02
## 99	0.023014539	-0.013836195	0.870657180	-0.406622378	-3.074518e-01
## 100	0.298854454	0.202657779	2.531846315	-0.405196273	4.227722e-01
## 101	0.193399739	0.078906066	1.391890321	-0.170015700	5.786966e-02
## 102	-0.028386853	-0.309308568	-0.551046259	-0.190372048	-1.645610e-01
## 103	-0.016199517	0.377674889	0.385359177	-0.030718259	4.393282e-01
## 104	-0.355850159	0.092045183	-0.854140441	-0.137043476	-4.252070e-01
## 105	-0.236533362	0.105772340	0.903570483	0.107636854	-3.109520e-01
## 106	-0.343371892	-0.224424192	0.892353227	-0.202013315	2.138275e-05
## 107	0.031221912	0.156480779	1.112589114	-0.181652672	9.132097e-02
## 108	-0.067493247	0.098668263	0.417500569	0.344859370	3.781365e-01
## 109	-0.012786011	-0.082487630	0.505000111	0.448634737	-4.809750e-01
## 110	0.329265411	0.105959093	0.991959518	-0.173009019	2.806272e-01
## 111	-0.289652259	0.209805717	0.543618434	-0.223294471	-7.215263e-02
## 112	0.084608943	0.000000000	-0.368277650	-0.059047449	-4.345410e-01
## 113	0.802130287	0.777082707	0.095015116	0.142232910	1.396434e-01
## 114	-0.018479016	0.123259380	-0.329287683	0.408687185	-2.866910e-01
## 115	-0.052977746	0.102004498	-0.464780026	0.179488757	5.710885e-02
## 116	0.145050271	-0.027233072	-0.058946848	-0.140132977	-7.062891e-02
## 117	-0.208345803	-0.390222812	-0.185167285	-0.124838868	-3.638907e-01
## 118	0.271310328	0.512974708	1.511311548	-0.200600276	-2.333073e-01
## 119	-0.714217637	-0.046644749	-1.092750500	0.055534392	-5.785649e-01
## 120	0.693939476	0.404486982	0.918719766	-0.071570981	5.062910e-01
## 121	0.179793406	0.071787401	0.562216421	-0.099813028	2.965804e-01

## 122	0.151601976	0.321339367	-0.626482349	-0.057654818	-2.285668e-01
## 123	0.185153661	0.195661246	0.848526995	0.132762007	2.053387e-01
## 124	0.137243773	0.178671274	1.343624613	-0.033811758	-3.948896e-01
## 125	0.101621556	0.761444974	0.150830410	-0.283825326	6.038492e-01
## 126	-0.107643131	0.107179335	-0.538991022	-0.030431549	-3.757319e-01
## 127	-0.090992906	0.074646989	1.464004690	-0.130390983	1.772171e-01
## 128	0.124603951	0.380146087	1.600938085	-0.234705266	4.421566e-01
## 129	0.212363852	0.291955604	1.590268929	0.348774511	-2.681700e-01
## 130	-0.088210350	1.027857583	1.526187901	0.456004308	-2.672918e-02
## 131	-0.305646068	0.094660876	0.331308549	-0.160634620	1.976603e-01
## 132	-0.189772907	0.137350972	-0.006970351	0.107096022	-5.355041e-01
## 133	-0.176300560	0.165933667	-0.303780086	-0.037493618	-4.100180e-01
## 134	0.607895277	-0.101983922	-0.307350512	0.772844936	-2.304692e-01
## 135	-0.037919044	0.202542165	-0.369344578	-0.106398119	-4.461957e-01
## 136	0.245873637	-0.189805685	0.616181368	-0.024765494	-9.762896e-02
## 137	0.207031658	0.138239079	-0.917660715	-0.021432025	4.789846e-01
## 138	0.038285094	0.194499494	0.459956142	0.034904236	5.298340e-01
## 139	0.505110700	-0.052415347	-0.858785097	-0.023544995	8.510470e-01
## 140	-0.086020278	-0.005976899	0.107244985	0.017630920	8.805156e-02
## 141	-0.219241938	-0.203084468	0.043395591	0.140409879	-2.480981e-01
## 142	1.518510294	0.089637408	1.150783776	0.086673005	2.066823e-01
## 143	-0.326593085	-0.143348967	0.679673525	-0.215269153	2.516684e-01
## 144	-0.229880411	-0.313420820	0.929138071	-0.120532397	7.763591e-02
## 145	-0.057570985	-0.113217810	-0.413702421	0.084989228	-2.423102e-01
## 146	0.057166550	-0.044119737	-0.737458359	0.045533435	3.734404e-01
## 147	-0.099145469	0.267278254	0.084717543	-0.080197295	5.130614e-01
## 148	0.049208443	0.067249711	-0.343054251	0.052064812	7.857731e-03
## 149	0.158670716	0.061094047	-0.450629530	0.104086313	4.262432e-01
## 150	-0.243374363	0.343578434	0.088894072	0.033056625	-6.526825e-02
## 151	-0.213965027	-0.194559110	-0.111496596	0.207219306	-4.158984e-01
## 152	-0.125429946	-0.091030807	1.751814734	-0.080312406	4.083586e-01
## 153	0.111947590	0.955482207	1.868451607	-0.080251233	2.644992e-01

## 154	-0.293031931	-0.091089345	-0.752876586	0.222514590	-2.652754e-01
## 155	-0.284198758	-0.278262036	-0.554484578	-0.221871223	-1.840598e-01
## 156	0.232781564	-0.343386531	-0.409697568	0.271958962	-1.194810e-01
##	pp_AMPK.alpha	pp_AMPK.pT172	pp_AR	pp_ARID1A	pp_ASNS
## 1	2.089816e-01	-0.168801156	1.498185962	-1.821448e-01	-0.422909192
## 2	3.718942e-01	0.175476706	0.185586276	-3.835951e-01	-0.033450831
## 3	-1.476233e-01	-0.302998014	0.015973373	6.401294e-02	0.342652124
## 4	7.345668e-01	0.957409786	0.014933936	-9.504817e-02	-0.004865362
## 5	7.282012e-02	-0.534109942	-0.051988751	-1.721019e-02	-0.258941206
## 6	-1.351655e-01	0.732167989	-1.444304852	-2.002313e-01	0.400733899
## 7	-3.098835e-01	-0.451279932	-0.378514631	6.945440e-02	0.279215129
## 8	-3.408942e-01	-0.216213356	-1.432035631	2.789937e-03	1.329061089
## 9	-1.116083e-01	0.072488590	-1.294564550	1.293396e-01	0.753665589
## 10	3.258091e-01	0.511850760	0.719072083	3.274373e-01	-0.721126423
## 11	-3.924206e-01	-0.661523856	-0.774929578	2.549717e-01	0.085820187
## 12	-2.345555e-01	0.171688732	0.383217286	7.976577e-02	0.567034968
## 13	-8.748660e-02	0.239603152	-1.351956219	1.033779e-01	-0.070700742
## 14	5.897338e-02	-0.352472236	-0.654732236	-3.498592e-01	-0.549623697
## 15	4.477777e-01	1.179086452	1.278860386	3.153226e-01	-0.419790789
## 16	1.807413e-01	0.656633300	1.008194546	-2.586000e-01	-0.458877186
## 17	2.205831e-01	0.799588936	0.291198874	6.944248e-02	-0.430124688
## 18	6.243114e-01	0.716938857	0.959258930	-4.147851e-01	-0.610713733
## 19	2.584248e-01	1.109164455	1.357682287	-1.297873e-01	-0.635912345
## 20	-2.475131e-01	0.103353155	0.229122604	-7.224914e-02	0.049769808
## 21	2.046315e-01	0.869190253	0.961984158	-2.881092e-01	0.321701707
## 22	-2.972832e-01	-1.210482805	-1.246325824	-2.330904e-01	0.596579189
## 23	-6.431419e-01	-0.356889291	0.654438035	3.048589e-02	0.577046554
## 24	-1.291193e-01	0.257512272	-1.150987649	-8.159265e-02	1.338632766
## 25	1.446610e-01	0.507805248	0.553402674	1.038763e-01	-0.048980643
## 26	3.706146e-01	0.290316823	-1.150576819	4.521915e-01	-0.969426552
## 27	1.542389e-01	0.371118534	1.090184745	-1.364335e-01	-0.438923259
## 28	-2.562639e-01	0.060294135	-0.119098051	4.489416e-01	1.088452326

## 29	-1.172001e-01	-0.360741623	-0.048600826	-1.304269e-01	-0.531880568
## 30	1.347080e-01	0.488114686	0.321005492	-4.301943e-02	-0.492982816
## 31	-3.274506e-01	-0.561691957	0.655278431	-2.940887e-01	-0.502240157
## 32	-4.918785e-02	0.191841424	-0.821704449	-1.480452e-01	0.082773976
## 33	9.946145e-02	0.771393691	0.543691644	-2.185584e-02	-0.570336114
## 34	7.021886e-02	0.612592292	0.219523703	-1.250442e-01	-0.794095225
## 35	8.424121e-02	0.297414533	1.841357067	-9.938234e-02	0.123755103
## 36	-3.120395e-01	-0.817430954	-1.412539363	1.445419e-02	0.753098013
## 37	1.744951e-01	1.198740867	0.148688233	8.070546e-02	-0.654054913
## 38	1.124360e-01	0.237518759	0.449345549	1.371252e-01	0.879331930
## 39	1.708446e-01	0.433102771	0.513895546	1.252346e-01	0.836764721
## 40	0.000000e+00	0.393794309	-1.296618424	3.257339e-01	0.577860102
## 41	-1.300754e-01	-0.293179470	-0.995662202	-5.318943e-01	1.030748856
## 42	-1.366173e-01	-0.041673519	-0.391196488	-9.344917e-02	0.218686038
## 43	-2.018948e-01	-0.186444875	-1.313116590	1.301750e-02	0.881048835
## 44	0.000000e+00	0.210350235	0.358958679	3.433483e-02	-0.306371660
## 45	9.247470e-02	0.471794797	0.100078917	-1.099571e-01	-0.733542148
## 46	1.075661e-01	0.568409644	0.094131374	1.510647e-01	-0.432685547
## 47	4.994789e-01	0.981913939	0.454174028	4.634495e-02	-0.913913645
## 48	-2.896244e-03	0.301354425	-0.185242311	-2.142700e-01	-0.384741792
## 49	-2.324553e-01	-0.999476468	0.089638013	2.392235e-03	-0.175824102
## 50	3.891275e-01	0.254056024	0.466536972	8.880449e-02	-0.505482956
## 51	1.645592e-01	0.900093622	-1.359441462	-1.180579e-01	0.202343499
## 52	-1.005382e-01	-0.803129965	0.179471500	1.215175e-02	-0.034407358
## 53	-4.568644e-01	-0.332235640	0.585331915	7.496487e-02	2.075064204
## 54	-6.587861e-01	-0.570806141	0.178626160	-7.906014e-02	0.607992757
## 55	6.337940e-02	0.858305989	1.179397444	-2.151910e-01	-0.198605699
## 56	-2.456770e-01	0.138293275	-1.266326827	-4.595118e-01	1.323738652
## 57	-1.237691e-01	0.036027834	0.369402212	4.308158e-02	-0.358163988
## 58	3.912041e-01	1.036942358	0.152577973	-1.431663e-01	-0.462190785
## 59	-4.512725e-01	-0.006446884	-1.658961885	2.333100e-01	0.634191644
## 60	-2.386010e-01	0.317398052	-0.889471085	-1.165253e-01	0.005950363

## 61	-2.412450e-01	0.401338635	-0.474217329	-1.321967e-01	0.047304297
## 62	5.346371e-01	0.624316182	0.990286722	-1.133399e-01	0.563165035
## 63	3.436220e-02	-0.376046528	0.133859823	-1.914427e-01	-0.037367811
## 64	-3.651027e-01	-0.676918107	-0.667512449	1.153175e-01	-0.088098625
## 65	-2.492960e-01	-0.550009089	-1.312584907	-1.939386e-01	-0.235392198
## 66	5.607910e-01	0.781577506	0.002559053	-1.790037e-01	0.726782930
## 67	3.050948e-02	0.270010329	-0.356324920	-3.410411e-01	-0.387153101
## 68	-5.489325e-01	-0.402807496	-1.618916585	-4.901250e-01	-0.335697617
## 69	4.006953e-01	0.887377221	1.143553366	-3.999690e-02	-0.321327316
## 70	2.578445e-01	0.268342382	0.454504456	7.971283e-03	0.077293574
## 71	2.067051e-01	-0.046382155	0.601929709	-3.150238e-01	0.017129326
## 72	-3.005177e-01	-0.266334552	1.284212140	2.691947e-01	0.160259878
## 73	-1.414637e-01	0.198494497	-1.960600121	-1.764940e-01	1.345882086
## 74	8.054998e-02	-0.285508297	1.877259726	2.679942e-02	-0.400089064
## 75	-5.946199e-02	-1.071052979	-1.480773225	-2.342395e-01	1.122032405
## 76	-8.483589e-01	-0.910971702	0.365591197	4.284770e-02	-0.459814748
## 77	9.513219e-03	0.224645140	-0.705197970	1.336586e-01	-0.340096422
## 78	-1.702536e-02	0.000000000	-1.161998775	-6.490509e-02	0.357989162
## 79	3.511636e-01	0.877084888	0.825825497	4.687885e-02	-0.141531868
## 80	-3.268030e-01	-0.106491493	-1.109144582	-1.044260e-02	0.739852366
## 81	1.937189e+00	-0.866569146	-0.540912006	-2.013775e-01	0.941113582
## 82	9.759946e-01	0.483259763	0.067755609	-8.576602e-01	0.284830884
## 83	1.209213e-02	0.013238531	0.472808283	6.997896e-02	-0.814949400
## 84	-3.019374e-03	-0.150313140	-0.193291542	-1.339073e-03	-0.606617570
## 85	-2.273631e-03	-0.189415829	-1.724995527	6.294662e-02	1.331528936
## 86	0.000000e+00	-0.211298399	-0.720084761	-3.774170e-01	-0.270242494
## 87	-3.427290e-01	-0.599365412	-0.546760342	-3.138294e-01	-0.334918811
## 88	-1.569731e-01	-0.296783124	-0.723963852	7.596516e-02	0.438913987
## 89	2.795041e-01	0.958892056	-0.325725762	-5.361738e-02	0.336310468
## 90	5.976158e-01	0.536634887	1.177552816	2.751246e-01	0.150089714
## 91	-1.554842e-01	0.137338312	0.619322404	-1.284444e-01	0.183683268
## 92	-2.703851e-03	0.094790765	0.317581210	-2.394637e-01	-0.194125809

## 93	-1.007509e-01	-0.276447518	0.195901646	-2.794002e-01	-0.456521719
## 94	-5.816144e-01	-0.964610032	-0.131187866	2.779031e-01	-0.322331913
## 95	2.614815e-02	0.346779699	0.706441476	-5.476815e-02	-0.009095819
## 96	-9.347142e-02	-0.132229627	0.583551632	1.739186e-01	-0.218427967
## 97	-6.685479e-01	-0.964313621	-1.565084370	1.018333e-01	0.871361538
## 98	5.754210e-02	0.014037099	0.481760978	-3.594066e-01	-0.601271272
## 99	1.624484e-01	0.759346463	0.264858430	7.200461e-02	-0.106256032
## 100	5.260701e-01	0.332812057	2.454007061	5.984726e-02	-0.167455188
## 101	1.834946e-01	0.562113683	0.122672515	-6.911412e-03	0.062924284
## 102	2.503449e-01	0.142478099	-0.241824909	2.785639e-01	-0.232382187
## 103	4.377682e-01	0.699016099	0.697271548	5.196247e-02	-0.678790331
## 104	3.031595e-02	0.131520483	-0.084135855	-8.830475e-02	-0.123649405
## 105	1.836854e-02	-0.239861794	0.786299558	8.281489e-02	-0.459180867
## 106	6.817470e-02	-0.134133465	0.536537479	-2.138275e-05	-0.593329164
## 107	5.372726e-01	0.543711576	1.786976350	1.024525e-01	-0.174350244
## 108	-2.956816e-01	0.086267729	0.006943417	2.658683e-01	0.111473743
## 109	-3.522239e-01	-0.255042477	0.249362014	-3.205933e-01	-0.071770530
## 110	-1.530832e-01	-0.063529037	0.437833782	-1.461101e-02	0.412811647
## 111	-2.942670e-02	0.297701167	-0.793199563	-1.599894e-01	1.027303269
## 112	2.356829e-01	0.003629640	0.221322790	1.843118e-01	-0.291650562
## 113	2.446382e-03	-0.008522808	-0.723970630	1.428769e-01	0.231753349
## 114	2.906624e-02	0.087795611	0.012408890	1.915423e-01	-0.138790600
## 115	-3.734680e-01	-0.549854855	0.296329012	1.424283e-01	0.721478119
## 116	1.045280e-03	-0.126808105	0.114878167	1.546248e-01	-0.333891279
## 117	1.628075e-05	0.115821354	0.645438273	1.524045e-01	-0.381001349
## 118	2.343629e-01	0.465887923	-0.389210872	-2.535245e-01	0.935317151
## 119	-3.027642e-01	-0.554911352	0.000000000	1.581083e-01	-0.239233248
## 120	3.281295e-01	0.647024139	1.368361829	4.551628e-02	-0.812295178
## 121	-4.113013e-04	-0.232880075	-0.561147028	-7.929577e-03	-0.171060742
## 122	3.557413e-02	-0.171947188	0.091243655	-1.871271e-01	-0.256803569
## 123	-3.580311e-01	-0.587345525	1.681876858	-2.025640e-02	0.061914460
## 124	3.241078e-01	-0.216421016	1.141769089	-4.908318e-02	0.172387457

## 125	2.123542e-01	0.657874068	0.858292473	-2.317139e-01	0.347651422
## 126	-1.997198e-01	-0.592263589	-0.302050575	1.294317e-01	-0.291270604
## 127	-1.999565e-01	0.092812729	0.497241871	-2.000863e-01	0.883753713
## 128	1.136910e-01	0.476329346	0.263107602	-1.230717e-02	0.182372009
## 129	7.872841e-02	0.248013420	1.288044460	-2.004098e-01	-0.510407750
## 130	-5.189509e-02	-0.241788740	1.788096445	-3.146541e-01	0.541680580
## 131	2.626377e-02	0.720886486	-0.439922755	-7.048993e-01	0.995377510
## 132	2.822362e-01	-0.122327923	0.871858595	1.096283e-01	0.094287755
## 133	1.117998e-02	-0.562459731	-0.513478036	-4.307749e-03	0.110889914
## 134	-3.877989e-01	-0.020249579	0.421343442	-3.038724e-01	0.233512917
## 135	9.061251e-02	-0.160227649	0.352638954	2.703377e-02	-0.317487941
## 136	-1.226214e-01	0.342261335	-0.049631631	1.391887e-02	-0.296822569
## 137	-4.711941e-02	0.130975739	0.012267255	2.797454e-01	0.825768872
## 138	2.644592e-01	-0.007163303	-1.506705939	6.939952e-02	0.825802768
## 139	-3.100149e-01	-0.213143842	1.153398918	2.599046e-01	0.278223008
## 140	-1.440645e-01	-0.858577857	0.867837689	-2.253395e-01	2.004145723
## 141	4.250355e-02	-1.984725838	-1.447057481	3.218676e-02	0.332435079
## 142	-8.131481e-02	-0.058636385	0.081915068	-8.907161e-02	0.240203147
## 143	-6.969661e-02	0.026703295	0.683903965	-1.059092e-01	1.050112079
## 144	-3.949540e-01	-0.565967873	1.776970128	-3.388893e-02	-0.404943589
## 145	-3.932199e-01	-0.462908254	-1.535487873	6.111939e-02	0.183429418
## 146	-2.984499e-01	0.393549087	0.873585216	3.103543e-01	0.644913525
## 147	1.984221e-01	0.607369146	1.108801105	3.320153e-01	0.127532397
## 148	2.061545e-01	0.118763714	-1.304859604	4.736255e-01	0.614249746
## 149	3.351089e-01	-0.290492797	1.355711626	1.606150e-01	-0.165063646
## 150	2.289952e-01	-0.839713950	-1.044017097	-1.675145e-01	0.939616564
## 151	4.212720e-02	0.166614919	0.888159003	6.133861e-02	-0.294541679
## 152	-2.904464e-01	-0.280218333	-0.618088715	1.926723e-01	-0.727518532
## 153	-4.049136e-03	-0.641559818	1.486695470	-2.421699e-01	0.410667798
## 154	-2.273382e-01	-0.921631704	-0.875807755	8.426671e-02	-0.140495105
## 155	-2.936487e-01	-0.382323935	1.045125410	2.106249e-01	-0.089679734
## 156	-1.453563e-01	0.272313629	0.329036021	-2.531978e-01	-0.340641213

##	pp_ATM	pp_Acetyl.a.Tubulin.Lys40	pp_Akt	pp_Akt.pT308
## 1	0.724812736	0.455939966	0.12486607	0.205667024
## 2	0.057178658	-0.443507977	0.33335477	0.540817054
## 3	0.173950736	0.620510544	-0.02309007	0.070288819
## 4	-0.126133837	1.208426153	0.20706285	-0.396688666
## 5	-0.479475924	0.279885750	-0.01190758	0.507993827
## 6	0.152396794	1.052556407	1.06646142	0.714002673
## 7	0.211668989	-0.118908317	-0.61385144	0.350174951
## 8	0.230259356	1.005283401	-0.01140321	0.297098142
## 9	-0.521245189	0.906347122	-0.31509398	-0.431486225
## 10	-0.116185806	0.231749672	0.34486038	-0.440041781
## 11	0.669523064	-0.802404866	-0.05084351	-0.000632794
## 12	1.299413266	-1.361642863	-0.16131012	0.125428907
## 13	0.299721925	0.063097194	-0.10018224	-0.471206731
## 14	-0.355329698	-1.423586985	-0.09160963	0.312535809
## 15	0.940005740	-0.249660911	0.60240008	-0.599911579
## 16	0.414639216	1.491449615	0.23013340	1.816037921
## 17	-0.221641888	0.835743359	-0.02908487	-0.387895824
## 18	-0.835486775	0.809146183	-0.44945637	-0.044729049
## 19	0.800366713	0.551393132	0.17988948	-0.421634061
## 20	0.187017599	0.134525351	0.35455769	-0.271123116
## 21	0.160779322	1.097066440	0.39362196	-0.188035118
## 22	-0.499105721	0.518106009	-1.04443623	0.696866136
## 23	0.418135281	-0.068869334	0.55437896	0.313693536
## 24	-0.191119213	1.232460421	-0.44123031	-0.325584778
## 25	0.735673420	0.732568018	0.32644149	0.016795827
## 26	-0.756266498	0.542378488	-0.69286565	-0.172983900
## 27	0.571119747	-0.419423733	0.56103094	0.373851280
## 28	0.471004944	-0.501800227	-0.29138287	0.878442144
## 29	-0.447373718	-1.737221342	-0.56296065	0.563836213
## 30	-0.223248592	0.982590592	-0.12738132	0.163799586
## 31	-0.564903552	-1.958272926	-0.72001953	0.312451292

## 32	0.121686131	-3.297306873	-0.22584705	0.186881964
## 33	-0.035897068	-1.029402619	0.23831548	0.629079283
## 34	0.586924870	-1.925780022	-0.06420319	-0.353977899
## 35	-0.157378482	0.041784406	0.06155879	0.095466024
## 36	0.410994660	-2.973185949	-0.59964027	0.146224770
## 37	0.004435498	0.956192088	1.12948504	-0.407145345
## 38	0.261702698	0.723227550	-0.07567443	-0.409203537
## 39	0.360022455	1.024241077	-0.08580820	-0.301262863
## 40	0.751764962	0.013837349	0.02716297	0.284754707
## 41	0.312769144	0.004896448	0.76644948	1.657102894
## 42	0.256192033	0.780965186	0.95362559	-0.284496794
## 43	-0.066715000	0.102150397	-0.41776215	1.502896346
## 44	-0.059676600	-2.542540593	-0.42544997	0.124453457
## 45	-0.254323701	-0.845852607	-0.18356337	0.305255066
## 46	0.270071132	1.890188784	0.37582807	-0.108810104
## 47	0.565065269	0.153284105	0.08886236	0.414655106
## 48	-0.469656336	0.324224344	0.11512207	-0.381049408
## 49	-0.535816461	-1.410459276	-0.76589965	0.414008754
## 50	0.069946150	0.196810929	0.09388429	0.772721866
## 51	-0.174845419	0.660854434	0.64706722	0.783630658
## 52	-0.299278029	-0.802590176	-1.22734038	0.678469422
## 53	-0.086368197	-1.774410693	0.77365617	0.122094066
## 54	-0.175769877	-0.994775859	0.30747711	-0.064096584
## 55	0.451966908	0.509472136	0.43458221	0.263902480
## 56	-0.137267266	1.341657825	-0.34380592	-0.453806584
## 57	0.025231395	-1.578761093	-0.24426262	0.462351454
## 58	0.269734509	0.166872465	0.22725029	-0.037267705
## 59	0.068368971	0.653509510	-0.29449614	-0.382091890
## 60	-0.397476983	1.151852718	0.25561457	-0.622343727
## 61	-0.628697766	0.397194188	-0.38615063	-0.019619037
## 62	0.137510277	0.886085530	1.22235394	-0.137948634
## 63	-0.284602908	-0.451958867	-0.20704826	-0.541242336

## 64	-1.656723576	-0.270860190	-0.91866247	0.141947595
## 65	0.253929914	-2.239770444	-1.03277119	-0.162309355
## 66	-0.117993744	1.209380197	0.31929179	0.074213529
## 67	0.507527443	0.292234748	-0.34645594	0.442663789
## 68	-0.743989158	-2.647529761	-1.75119945	0.433039430
## 69	-0.071822331	0.206035857	-0.38715273	-0.185557658
## 70	0.233267593	-0.350862301	0.64681968	-0.348379957
## 71	0.097697568	-0.377116183	0.87782274	-0.890603332
## 72	-0.479615476	-1.287556494	-0.56900680	-0.864585553
## 73	-0.144758082	-0.154646092	-0.06173251	-0.676872882
## 74	0.782707680	1.252650648	-0.09447020	-0.308267466
## 75	0.255797033	1.373150322	-0.22711445	0.492129863
## 76	-0.051377971	0.547874484	-0.19695244	0.754647363
## 77	-0.307901869	-0.255588542	-0.24419512	0.198299345
## 78	0.117788028	0.850858539	0.23975175	0.238933540
## 79	0.211096767	0.482839721	0.34900179	2.033000346
## 80	-1.225446862	0.581771139	-0.33409410	0.457497928
## 81	-0.931578984	0.957011542	-0.01857384	0.721781214
## 82	-0.518471628	0.300728844	-0.18655322	0.096461280
## 83	-0.180132805	1.216418926	-0.35564850	0.217945747
## 84	0.351292801	0.821509909	0.16335327	0.215838731
## 85	-0.603682547	0.221166955	0.23923401	0.528219080
## 86	-0.716191695	-1.581583241	-1.16763741	-0.127737253
## 87	-0.395783874	-0.280379190	-0.52702236	1.216502511
## 88	-0.018249998	-0.784478085	0.47087065	0.424441955
## 89	0.176816960	-0.314127571	0.09557990	0.187800973
## 90	-1.054606191	-0.124611368	-0.48793281	-0.269386987
## 91	0.412326876	0.536292720	0.49220893	0.787414240
## 92	-0.223290797	-1.160656565	0.40834120	0.305413241
## 93	-0.482473669	-0.249909092	-0.35901733	0.006483035
## 94	-1.901113770	-1.953391812	-1.09342152	0.739528646
## 95	0.455545288	0.102168477	-0.24941367	0.452139360

## 96	0.006151340	0.438235714	0.15492373	0.127776958
## 97	-0.684259404	-1.156944184	-1.18787109	-0.121343153
## 98	-0.849472182	-2.213343074	-0.60601540	-0.282577888
## 99	-0.341739793	0.945936177	-0.42060264	-0.426750489
## 100	0.184539942	0.804707745	0.31593443	0.370756636
## 101	0.378048376	-1.188508930	0.09267426	0.200616262
## 102	0.397088555	0.322131828	0.04579286	-0.244619231
## 103	0.251452316	0.182333064	-0.11367952	1.435732377
## 104	-0.480837660	0.201304407	0.63676241	0.219699798
## 105	-0.253682562	-1.142427804	0.01343720	-0.155039776
## 106	0.037180225	0.447103746	-0.12559541	-0.243296695
## 107	0.341598181	1.198336121	0.30266137	1.292428459
## 108	0.146247004	-1.503337397	-0.08592252	-0.143931355
## 109	-0.015621599	-1.312264035	-0.53358739	-0.188671600
## 110	-0.429970509	-0.716717413	0.09178682	0.105303463
## 111	0.602198408	0.404632944	0.61488216	1.515234785
## 112	-0.216255085	-0.861818040	-0.63078405	0.600245273
## 113	-0.535923708	-1.874463227	-0.38865659	-0.182934271
## 114	-0.040476653	0.000000000	0.26013669	-0.251872547
## 115	0.629795777	-1.247357068	-0.34593587	0.729365133
## 116	0.195499224	0.079692345	0.33853252	0.669209906
## 117	0.010252381	-0.196920440	0.23810001	0.883718923
## 118	0.969485223	-0.800816243	0.21863752	1.979103672
## 119	-0.393138999	-2.017129777	-0.79175609	0.389829010
## 120	-0.820569277	-0.545243985	-0.48257951	0.702470926
## 121	0.319789509	-0.410613365	-0.03230857	0.209068265
## 122	-0.073007552	0.758954558	0.05594028	1.531723472
## 123	0.342029267	0.973920877	0.30416535	1.075871511
## 124	0.255483523	-0.529535463	0.36577769	1.074404844
## 125	-0.249785019	-0.522475471	0.69419979	-0.566503875
## 126	-0.165027683	-1.364030102	-0.37443819	0.192561123
## 127	0.037909475	0.698347011	-0.22006508	-0.342766542

## 128	0.131202644	-0.818776438	-0.16543590	0.190730977	
## 129	0.730814978	-0.827438589	0.01773129	-0.102518582	
## 130	0.219786462	-1.168916754	0.38009988	1.524328689	
## 131	0.859123594	-1.654495228	0.51116560	0.372471956	
## 132	-1.195535412	-1.072805342	0.10315745	0.375566912	
## 133	0.998687764	-0.895008899	-0.14934448	0.589721227	
## 134	0.057929516	0.869907878	-0.43949807	2.335684909	
## 135	-0.434800375	1.121556979	-0.09841985	0.011259265	
## 136	-0.964468352	-0.132934572	0.09811457	-0.017566297	
## 137	-0.069323779	1.027653704	0.37695970	-0.847679961	
## 138	0.727960433	0.999866171	-0.43436986	1.214796663	
## 139	0.042497493	0.185842763	-0.30685609	-0.625773689	
## 140	-0.054749102	0.426246415	0.56033472	-0.565360474	
## 141	-0.450217716	1.099689989	-0.23567835	2.018447872	
## 142	0.259527706	-0.084754701	0.24236790	-0.014748601	
## 143	0.189915635	1.696286868	0.19961447	2.132020382	
## 144	0.007574783	-0.153221902	0.85871226	0.034159202	
## 145	-0.018582475	1.076622195	-0.25390003	1.030782764	
## 146	0.708178480	1.360315230	0.22851462	-0.537004168	
## 147	1.143484940	0.170811430	0.45033697	-0.190057792	
## 148	-0.544267852	2.197295075	-0.04754014	-0.220604332	
## 149	0.290803826	1.044653537	-0.01888664	-0.005533160	
## 150	0.053459498	1.269555436	0.24632703	1.675624381	
## 151	-0.419445829	0.329578341	-0.19264163	0.054914351	
## 152	0.120206573	0.966504856	0.35819322	-0.172180139	
## 153	-1.018219458	-0.628788530	0.54283040	0.988870215	
## 154	-0.844463718	0.214920873	-0.58883442	0.373822385	
## 155	0.463918636	-0.013213071	0.06361469	0.306990666	
## 156	0.074503200	-0.560014811	-0.47762335	-0.322432622	
##	pp_Annexin.1	pp_Annexin.VII	pp_Axl	pp_B.Raf	pp_B.Raf.pS445
## 1	0.22295913	-0.1088613040	0.070757092	0.041259628	0.050811331
## 2	0.57880099	-0.1070257475	0.430389293	-0.177926314	-0.141694395

## 3	-0.00344909	-0.0186729105	-0.075654817	0.391711781	0.004091609
## 4	-0.73158182	0.0444827108	-0.372151734	0.500152640	0.022313940
## 5	0.98580647	0.1760223930	0.209662437	0.128357474	0.203457013
## 6	0.57537532	-0.2975836640	0.034520571	-0.072281218	-0.301628684
## 7	0.69527148	-0.0039337785	0.286966253	-0.678962466	-0.367780169
## 8	0.13309384	-0.2273163810	-0.162144460	-0.061977209	-0.054035935
## 9	-0.07220973	0.1009435030	-0.013584225	-0.560643148	-0.138008001
## 10	0.34531487	0.0726024722	0.173297952	0.786525322	0.442780167
## 11	-0.25335598	0.0775192625	-0.162717705	-0.325216666	0.039520969
## 12	0.42211552	-0.1409225215	0.652605067	-0.011134762	0.201000777
## 13	0.83256104	-0.2688492800	0.275097970	0.108305086	-0.149124735
## 14	0.73942890	0.0844113640	-0.106643962	-0.003837840	-0.103682513
## 15	-0.50035555	0.0883983920	-0.389419537	0.248698669	-0.156208369
## 16	0.59319336	0.0068638480	-0.188790439	0.153321243	-0.244343599
## 17	-0.78884904	-0.0838646765	-0.027850806	0.468588704	0.310788373
## 18	-0.59857912	-0.1759988525	-0.343152589	0.836721265	0.504484023
## 19	0.17066002	0.0845090465	-0.068524614	-0.105892160	-0.029870316
## 20	-0.27667309	-0.0091583310	0.058434465	0.368254254	-0.211685190
## 21	0.16009200	-0.2582915985	0.015566539	-0.135843104	-0.320875839
## 22	1.54619895	-0.0611314095	-0.563090681	0.122674777	0.307443376
## 23	-0.92260492	-0.2924891360	-0.294113535	-0.838996102	-0.178064091
## 24	0.52691759	-0.1263484195	-0.024769487	0.661120928	0.050516447
## 25	0.07231232	-0.0159578085	-0.099766603	0.043168398	-0.160952960
## 26	-0.41886855	-0.1460666970	-0.541879882	1.469976719	1.428726609
## 27	0.71544870	-0.0446701100	-0.021819013	-0.353867270	-0.433283011
## 28	-0.37426671	-0.0685228490	-0.153597464	0.090260508	-0.079117069
## 29	1.09225324	0.2059621020	0.000000000	-0.568598898	-0.403113099
## 30	0.62426516	0.1440439575	0.008343326	-0.234722895	-0.153525463
## 31	0.89419651	0.4358113350	-0.528205350	-0.346078540	0.489513670
## 32	0.50566535	0.0445308230	0.077422849	-0.510738003	-0.151753933
## 33	0.95458372	0.5996037655	-0.180031042	-0.735382191	-0.504712314
## 34	0.83609431	0.1367880695	0.027077166	-0.348435518	-0.050643055

## 35	0.22156453	0.0885101105	-0.073223405	-0.383206794	-0.214195464
## 36	0.71129682	0.1191536465	-0.015743726	-0.527081375	0.158743179
## 37	-0.01869971	0.0981002440	0.090614149	-0.033467583	0.285814489
## 38	0.25778766	-0.0300706945	0.016248314	0.002570181	-0.162490843
## 39	0.26419926	-0.0787523545	-0.107005559	0.180378473	-0.225104066
## 40	0.19682726	-0.0227975720	0.258843104	-0.251423336	-0.146246266
## 41	0.90615143	-0.3921646685	0.107018723	0.149595065	0.106318779
## 42	0.59313166	-0.1581420920	0.210335940	0.046607368	-0.384421181
## 43	0.23102271	-0.0040109665	0.045856449	0.396914001	0.133232116
## 44	0.49523626	0.1913602920	0.237689033	-0.605362876	-0.476535101
## 45	1.50676366	0.8265392625	-0.139736929	-0.682619481	-0.157542503
## 46	0.10702570	-0.0512751560	-0.183397490	0.053951970	-0.331332466
## 47	0.58472676	0.4174579025	0.013807280	-0.307886875	0.464511522
## 48	0.44937053	0.4536516655	0.122377519	-0.488389030	-0.387124974
## 49	-0.09551665	-0.0554055965	-0.152169149	-0.843689062	-1.051773857
## 50	0.30864151	-0.0505391420	0.050654531	0.023357953	0.254389205
## 51	-0.35661720	-0.4289843040	-0.242488830	-0.172908444	0.696308880
## 52	0.83357246	0.0513737755	-0.105629944	-0.726495002	-0.835263535
## 53	-0.16044818	0.0170210215	0.147672666	0.652300448	0.414403782
## 54	-0.36794900	-0.0155168505	-0.242603958	2.815251009	1.573773223
## 55	0.46045317	0.4460125845	0.202773489	-0.250773199	0.006341142
## 56	0.69226947	-0.2643661400	-0.053275382	-0.327543221	-0.193621946
## 57	0.39620750	0.3249438720	-0.125318594	-0.503621097	-0.419973955
## 58	0.63256890	0.3623893550	0.182832250	-0.501758376	-0.505761072
## 59	0.52603118	0.0098822655	0.184762312	-0.546390767	-0.171032770
## 60	0.26444999	0.3627932220	-0.227382516	-0.538170466	-0.649893799
## 61	0.38407235	0.1129912840	-0.219129315	0.909741631	0.732871644
## 62	-0.26427853	0.6755359690	0.024667588	0.466934173	0.619080753
## 63	-0.30021030	0.0629159235	0.047463463	1.195420406	0.341378318
## 64	1.08802717	-0.0107281405	0.387248043	-1.152991844	-1.716142788
## 65	0.82313160	0.1239328028	0.072322559	-0.550136252	-0.130073376
## 66	-0.14238688	-0.2671375898	-0.576706781	1.199131870	0.447370432

## 67	0.89513326	-0.0526806155	0.318757921	-0.202755972	-0.607724070
## 68	1.46530329	0.6434241592	-0.303623045	-0.975778152	0.020613633
## 69	0.24397224	-0.0156456705	0.015490264	-0.180372160	0.218931250
## 70	0.01388323	-0.1798119588	0.157220531	0.437036422	0.018200475
## 71	-0.23265862	-0.2231163968	0.280442813	-1.185802535	-0.301856681
## 72	-0.10563301	-0.3832178260	-0.141876801	0.141057481	0.514549144
## 73	0.66554157	-0.5500618637	0.388249861	0.745043176	-0.016402368
## 74	-0.39739089	-0.0084296105	-0.091188951	-0.444753821	-0.206228453
## 75	-0.38818139	-0.2597506230	-0.472663147	0.653662480	0.113415357
## 76	-0.66289700	-0.0115346235	-0.277316577	1.615074107	0.448177039
## 77	0.19546378	0.2309878860	-0.643105622	0.303826580	0.734455108
## 78	0.67303420	-0.5092604645	0.075847804	-0.149406225	-0.330074977
## 79	0.08624646	0.0794648610	0.049820068	0.386701850	0.184315943
## 80	0.35178877	-0.2878189080	-0.278730308	0.031221307	-0.247693284
## 81	0.54744459	0.1643293440	-0.236726412	-0.452286782	-0.342686842
## 82	0.99686656	-0.0325831350	-0.003778914	-0.697048469	-0.747166151
## 83	0.61688942	-0.1239567400	0.129025813	-0.458603216	-0.097374285
## 84	0.02077391	-0.0277876747	-0.025012068	-0.474813766	-0.289574314
## 85	0.54112757	-0.3185312272	0.087717076	0.518235147	-0.038977662
## 86	-0.40110867	0.1304424900	-0.476354725	0.846921867	0.649278937
## 87	0.76327679	0.0010100943	0.198046313	-0.353717140	-0.354591401
## 88	-0.67293420	-0.1935881255	-0.098135353	-0.194262859	0.260681443
## 89	-0.99564936	0.0118150745	-0.339077103	1.613400255	1.111114488
## 90	-1.14593770	0.1753688113	-0.421261105	1.463598045	0.577086109
## 91	0.59751552	-0.1722189920	0.638845931	-0.168295474	-0.362965355
## 92	0.79761013	-0.1292682390	0.195824993	-0.432220174	-0.449374799
## 93	1.02327269	-0.1261671090	0.085992622	-0.168216336	-0.201651586
## 94	0.91199718	0.0941157248	-0.082991255	-1.264455661	-0.777709799
## 95	0.65601408	0.0656013925	0.334537792	-0.067011587	0.079340712
## 96	0.23223996	-0.1027937505	0.347757172	-0.231518432	-0.339560739
## 97	0.03935769	0.2916584597	-0.459123204	-0.471804139	0.293399603
## 98	-0.08052042	0.4163666590	-0.464870844	0.092256484	1.173068609

## 99	0.07771591	-0.3096010375	0.066687448	0.727844432	-0.093741069
## 100	-0.81834961	-0.3058931515	-0.322430023	0.627514156	0.301648796
## 101	-0.67742837	0.1334086868	-0.417668316	0.561568684	0.510835075
## 102	-0.37593367	-0.0006083182	0.022630816	1.023660053	0.384371374
## 103	-1.62724326	-0.0625771970	-0.655599628	0.296381756	-0.373143362
## 104	0.75569284	-0.2264966175	0.227676380	-0.168730705	-0.409047620
## 105	-0.56275818	-0.0791088950	0.067582248	0.528304040	0.324349194
## 106	0.16198880	-0.1207874722	0.118152600	0.527357300	-0.095221207
## 107	0.02513160	-0.0161983565	0.323304553	-0.059382261	-0.255871195
## 108	-0.02323907	0.1187755730	0.285477219	0.731115392	0.342488590
## 109	0.74792918	0.1037330505	0.455323833	-0.485643352	0.059273569
## 110	-0.28672555	-0.1872613375	0.140871169	-0.288455860	0.339246068
## 111	0.23702473	-0.2731047270	0.247218115	0.097270684	-0.188952781
## 112	0.36841418	0.0602404910	0.119988906	-0.109973224	0.326573473
## 113	0.59714801	0.2921818770	0.230602190	-0.511851908	-0.057573529
## 114	-0.19428127	0.1322977200	0.229750233	0.146176427	0.347417356
## 115	0.22219841	-0.1601180455	-0.021812812	-0.196328792	-0.218023128
## 116	0.91406488	0.2770896593	0.390079412	0.148756721	0.201895668
## 117	-0.51273929	-0.1512973653	-0.095895247	1.286098557	0.738492510
## 118	-0.21088268	-0.0179847525	-0.001411776	-0.464456428	-0.097761732
## 119	0.14394809	0.0804833005	-0.351604772	-0.665116701	-0.862716695
## 120	-0.58442160	0.3338800485	-0.016093390	0.132608001	-0.164142121
## 121	0.06675216	-0.0022658462	0.413390193	0.093996838	0.804360645
## 122	0.83022850	0.2790675490	-0.230681486	0.296299370	0.352954186
## 123	-1.03194768	0.0690644230	0.024644990	0.032222981	0.091526314
## 124	-0.43197086	-0.1970182925	0.092200745	-0.341402671	-0.289138562
## 125	0.08516565	-0.1866383525	0.017310091	-0.084436738	-0.405014991
## 126	0.36005601	-0.2116296610	-0.127438015	0.841998237	0.763664248
## 127	-0.13222832	0.0213485915	-0.183684525	0.838698082	0.137993301
## 128	-0.04422198	-0.3838153690	0.123873216	0.631065856	0.159778564
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## 133	0.48026009	0.1390562050	0.198327988	-0.181854885	-0.269816547
## 134	0.35339658	0.2321371957	0.593537142	0.188020627	0.238039722
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## 136	0.59483402	0.2614661207	0.576337125	-0.412649468	-0.471669512
## 137	0.10512583	0.0140413743	-0.039239574	0.986269625	0.216730872
## 138	-0.44344930	-0.1696449275	-0.457037376	0.267524506	-0.071205589
## 139	0.17306307	-0.2347823235	-0.042172033	0.357416322	-0.324194744
## 140	0.12207479	-0.1593157158	0.258081771	-0.132194790	-0.094473462
## 141	0.61623946	-0.1545367080	-0.169892335	0.337512101	-0.088046484
## 142	0.38873302	-0.1851752937	0.235340096	-0.203084410	-0.289973052
## 143	0.98480315	-0.3144465332	-0.179989685	0.169274149	0.014765412
## 144	-0.16660690	0.0421864800	0.198319257	-0.141250560	-0.261125243
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## 146	-0.43754864	0.0718979265	0.012335121	0.655452408	-0.066946759
## 147	-0.29392946	-0.0932911750	0.036986775	0.039852952	-0.122285929
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## 149	0.18225617	0.0432080775	-0.039193322	0.090709136	-0.548530328
## 150	-0.08472811	0.0184769157	-0.307788620	0.096147352	-0.362882236
## 151	0.53118818	0.1009078705	0.083832672	-0.250731777	-0.001106596
## 152	-0.25040259	0.0517384055	-0.103762488	-0.355421881	-0.225735233
## 153	-0.29765261	0.1168715140	-0.036369835	-0.548923376	0.045922740
## 154	0.96359294	-0.3546322363	0.135798701	-0.442345910	-0.449718713
## 155	-0.12979997	-0.0780455893	0.390670353	-0.086350980	-0.096774806
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## 1	0.0858726615	0.020922660	0.1756733795	-0.092454236	-0.0368640225
## 2	-0.3926060960	-0.729901365	0.4416012970	0.045153205	-0.3974712500
## 3	0.0681328220	-0.223589982	0.1874331000	-0.375450823	0.1334120940
## 4	-0.0003669697	-0.435366623	0.2936501333	0.141044693	0.0282031832
## 5	-0.0604999775	-0.195526222	0.2272794545	-0.137936375	-0.3163360745

## 6	-0.0368781645	0.300811935	0.2556542115	-0.052472320	0.3382257315
## 7	0.0565784670	-0.244445201	-0.0487763540	0.051272095	-0.2139015800
## 8	0.1854597395	0.220058207	0.2678471885	0.591652839	0.3935635095
## 9	0.3748124745	0.929955712	0.0725984565	0.737767530	0.5413215285
## 10	0.1307028188	0.570058399	0.1440668978	0.364282863	0.2529343888
## 11	0.1710913380	-0.013187418	0.3780754220	0.153738089	0.2592759580
## 12	-0.1971267530	0.370966927	0.2084083560	0.123545774	0.0642076900
## 13	-0.2709267585	0.170935183	0.1361188305	-0.181418127	0.2196433735
## 14	0.0112746945	-0.761283313	0.0594988795	0.194116173	-0.4922042595
## 15	0.1083683535	0.721447568	0.0468131175	-0.102177738	0.2761965055
## 16	-0.1459658485	-0.416733597	0.7194906135	0.165147485	-0.1233331595
## 17	0.0852362460	0.338618172	0.1688763840	0.026368323	0.1258656160
## 18	-0.0856735190	0.321619486	0.5820146410	-0.141200636	0.0686552690
## 19	-0.0154841240	0.275162179	-0.2126197980	-0.090305509	-0.0016427100
## 20	-0.0486166215	-0.129324584	0.3450429405	0.034198510	0.3075029335
## 21	-0.2624429110	0.028231371	0.2421576240	-0.018555038	-0.0763579260
## 22	0.1661019950	0.211582225	-0.0290002930	0.143566213	0.3239658450
## 23	-0.0524205635	0.282140600	-0.0811506865	0.399636451	-0.1009204865
## 24	0.1660819120	0.519797285	-0.1960135400	0.094917595	-0.0524633220
## 25	-0.2990829910	0.129056392	-0.1142737450	-0.083590476	-0.0297820850
## 26	-0.1834396075	-0.457478539	0.4593462795	-0.191314726	0.0564276235
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## 28	-0.0776418655	0.408383438	-0.2514310015	-0.153982794	0.3761176405
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## 30	-0.1031975910	-0.529982983	-0.2279317730	0.376602577	-0.3028230380
## 31	0.0837947505	-0.409216602	0.4508353375	0.644756072	-0.6282429895
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## 34	-0.2592803340	-0.048245206	0.0406848260	0.282579013	-0.3384929770
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## 51	-0.1547702195	0.127747572	0.6459205145	-0.149235782	-1.0819886255
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## 55	-0.4490703920	0.489383104	-1.2899325070	0.334323866	-0.0886234120
## 56	-0.0306201205	0.042576471	0.3467521765	-0.007388206	0.1833025545
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## 58	-0.4254074455	-0.035613735	-0.4224246695	0.390343379	-0.0681355125
## 59	-0.2046204710	0.798571863	-0.3021567910	0.205994650	0.3205199460
## 60	-0.2434423295	-0.559886786	-1.3595304815	0.393315399	0.2208597355
## 61	0.0921784315	0.039083211	0.0730214925	-0.226531567	-0.0012605765
## 62	0.2132658585	-0.547730417	-0.1134472485	-0.091648610	0.0927533335
## 63	-0.4473709570	0.143605288	-0.2133326650	0.164886612	0.1410501250
## 64	-0.1924296680	-0.681598634	-0.0545349820	0.024686108	-0.7591876730
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## 66	-0.2348988812	0.098833831	0.3329265667	-0.389560064	-0.4108033062
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## 68	0.0617797157	-1.393643661	0.2706795887	-0.044790207	-0.3036919858
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## 71	-0.0849479232	-0.650728891	-0.4080476443	0.359486300	-0.2949839538
## 72	0.1209837865	0.172228027	-0.1734671175	-0.074309911	-0.0162875950
## 73	0.1224377758	0.180215429	-0.0369674772	0.160358588	0.0273270092
## 74	-0.4524302030	0.025552426	0.5758574350	0.135889497	-0.0317463830
## 75	-0.2752624245	0.847754432	0.3898723165	-0.126264852	0.0625654525
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131 -0.3069817055 0.289218135 -0.1033427145 -0.209776296 0.2186503705
132 -0.5120276550 -0.999488678 -0.6525461890 0.395651139 -0.2582912240
133 -0.3478258535 0.052739267 0.1754908495 0.139647994 -0.1841433965

## 134	-0.2398678137	0.115006711	0.2790968073	-0.090808770	0.0892231577
## 135	-0.5594856683	-0.158990377	-0.2927879473	0.149471020	-0.3304915498
## 136	0.1051846943	-0.053373317	0.0089944322	-0.360202405	0.0771483323
## 137	0.3798772317	0.328799194	-0.3084179173	0.232626805	0.5727722758
## 138	0.2026456410	0.479570548	0.1732139580	0.595490885	0.3592443560
## 139	0.1737706340	0.643551680	-0.4238882880	0.333571689	0.3169268640
## 140	0.0205635517	-0.472715412	-0.3411561343	0.454581038	-0.3704852902
## 141	0.1886005715	0.257386173	0.0820896805	0.314002453	0.0546863025
## 142	0.0364724738	-0.044578361	0.3562416087	0.299219311	-0.0319313722
## 143	0.3116984533	-0.143245889	0.1990708033	0.468314873	0.2282751503
## 144	-0.0520578255	-0.345038886	0.0360813655	0.519843325	0.0767468655
## 145	0.1726492890	-0.008394736	0.0226296600	-0.001442802	0.0866625820
## 146	0.3824091990	0.820091710	-0.5211992340	-0.122636859	0.7689499080
## 147	0.0683981195	0.375574721	0.2387443515	-0.406307792	0.4916826615
## 148	0.1520595355	0.636407829	0.0124727515	0.330686314	0.4452745445
## 149	0.3617863710	0.128950488	-0.1876623270	0.104130574	0.2140657970
## 150	-0.0306189287	0.073353508	-0.0710751388	0.341942300	-0.0428382478
## 151	0.1081359200	0.019472880	-0.0653926030	-0.190001982	-0.2246638530
## 152	0.2246933960	0.072560104	0.2537646180	0.024830260	0.2178179040
## 153	-0.0178192575	-0.024908034	-0.0776520045	-0.162867534	0.0220318365
## 154	0.1648180902	0.146931483	-0.0913099048	0.057953054	-0.2104371218
## 155	0.3048235552	0.125488020	-0.0798084268	0.554015763	-0.0002140207
## 156	0.1269210515	-0.122469416	-0.4670565745	0.341791148	-0.1094280985
##	pp_Bax	pp_Bcl.2	pp_Bcl.xL	pp_Bcl2A1	pp_Beclin
## 1	-0.048076601	0.60676428	-0.0109514540	-0.131265272	-0.080541592
## 2	-0.092339836	0.39385995	-0.2670807125	0.320442646	-0.145822801
## 3	-0.039872907	1.33129561	0.0365867395	-0.054743674	0.066244538
## 4	-0.594359719	1.31552303	0.1751595237	-0.097739328	0.605909400
## 5	0.138918705	0.19093396	-0.2262232100	0.269219520	0.005157979
## 6	-0.174797370	-0.89113447	-0.3320525370	-0.331152006	0.013469582
## 7	0.109607363	0.19506418	0.0093965035	0.645032538	0.146858206
## 8	-0.264062264	-0.44065217	-0.1805985910	-0.143808532	0.083838143

## 9	-0.115671276	-0.19308843	-0.0537553670	-0.065556743	0.146217247
## 10	-0.035056548	1.29490971	-0.2802168147	-0.226858752	0.012568627
## 11	0.225815343	0.43546069	-0.0278531085	-0.250892301	-0.043265004
## 12	0.154576487	0.87068830	-0.2177261515	0.030917777	0.077841933
## 13	0.120240075	-0.90250370	-0.0697445840	0.037890398	0.010678233
## 14	0.443090141	0.34332698	0.0898514490	0.169499933	-0.109456065
## 15	-0.074151068	2.33620212	-0.0513588320	-0.352051172	-0.033066540
## 16	0.366064548	1.01433074	0.0798541970	-0.178247546	0.031143108
## 17	0.352170368	1.24435604	0.2734783005	-0.144224147	-0.099383777
## 18	-0.062528141	1.24157747	0.2216218755	0.007587790	-0.206566483
## 19	0.219895567	1.62093391	0.2002528105	-0.086203610	-0.036779804
## 20	-0.001744333	1.37662903	0.0438990670	-0.437417120	-0.007292773
## 21	-0.127243086	-1.24932559	-0.1317297105	-0.376395351	-0.253591617
## 22	0.651413058	-1.09147324	0.3401273235	-0.050767721	-0.291993266
## 23	-0.605338226	0.54901281	-0.1725732010	0.039463911	-0.113215922
## 24	0.122539583	-0.66086393	-0.1262045605	0.109718658	0.047923103
## 25	-0.116363167	1.04561821	-0.1260259165	0.159764159	-0.000587463
## 26	-0.209603751	0.83062302	0.1113874630	-0.257303384	-0.240091040
## 27	0.073069532	-0.15552027	0.0134135560	-0.324467967	0.149782322
## 28	-0.041858811	1.08421447	-0.0721256790	0.021731225	0.022756247
## 29	-0.548351424	0.48112296	-0.2303997690	0.387512833	0.069542852
## 30	-0.289356568	0.23845919	-0.1810675505	0.398281031	0.115642250
## 31	0.571968286	0.42600464	0.1677600970	0.586178541	-0.426016357
## 32	0.527413740	0.45885268	-0.1802238540	0.447039578	-0.990873477
## 33	0.163164468	0.67549558	0.1838319605	0.769451222	-0.356326650
## 34	0.100985170	0.06919314	-0.3261560785	0.182272828	0.005908896
## 35	-0.021615150	-0.58835998	-0.1173335995	-0.128341856	0.043139034
## 36	0.465282065	0.79273837	-0.2299727125	0.302689402	-0.457930654
## 37	-0.037630810	1.32671139	0.0007802970	0.298366991	-0.072481787
## 38	-0.114289914	-0.75958783	0.0380364345	-0.140604930	-0.158722432
## 39	-0.139277778	-0.67688942	0.0845062745	-0.190508048	-0.142333963
## 40	0.055609590	0.31545977	-0.1260370380	0.858592867	0.933674831

## 41	0.282760083	-1.37081310	-0.0420717855	-0.203356399	-0.059470219
## 42	-0.070283059	-0.98747149	-0.0008064150	0.010067408	-0.139224601
## 43	0.069355807	-1.08938918	-0.0574662295	-0.325797893	-0.346670755
## 44	-0.160026167	0.13316121	-0.0546429780	0.515174798	-0.358361957
## 45	0.537801045	0.80858416	0.1549848685	0.782742959	-0.848097408
## 46	-0.258527558	0.62213258	-0.0271817470	-0.125497305	-0.090134590
## 47	0.711627738	0.47651825	0.0896061815	1.004892346	-0.444066261
## 48	0.535734112	-0.01204912	0.0409289245	0.183825321	-0.390096802
## 49	-0.457290483	-0.03979911	0.1858458745	0.680656847	0.139080464
## 50	0.551481410	1.05193944	0.0621086390	-0.018619092	0.008020118
## 51	0.240887771	-1.23432834	0.0190621000	0.057656258	-0.028505209
## 52	-0.167464227	0.63454190	0.2267954275	1.244632407	0.534868756
## 53	0.180268409	-0.95457194	-0.2450171145	0.281605229	-0.202091514
## 54	0.627619974	-0.72646023	0.1082887755	-0.445058379	-0.012984165
## 55	0.583199742	1.29622894	-0.0219702905	0.863292796	-1.490367995
## 56	-0.215078787	-1.41888433	-0.1283193340	0.066906619	-0.049713770
## 57	-0.015328276	-0.19370240	0.0670971610	0.638772685	0.153721272
## 58	0.397741258	0.49978710	-0.1028692530	0.079017952	-0.815950847
## 59	0.040984798	-0.99661171	-0.1607518415	0.572690037	-0.298110126
## 60	0.329690386	-0.51307077	0.2158879300	0.250189079	-0.690054142
## 61	-0.093496638	1.14562334	0.0706608660	0.245050711	0.108593327
## 62	0.100991547	0.67302994	0.7494413690	0.035292338	-0.327346171
## 63	0.557697829	0.44840324	0.8554578975	-0.060825187	-0.065098155
## 64	0.102851209	0.09287159	0.1573445225	0.990029532	0.778875253
## 65	0.508235936	0.47009105	-0.0780029443	0.395968233	-0.076808199
## 66	0.356463750	0.94363033	0.7179014972	0.015367965	-0.260600072
## 67	0.080043041	0.04558880	0.0505966905	0.257470505	0.151629142
## 68	1.124851771	0.53483531	-0.1556331627	1.314765989	-1.088745698
## 69	0.596876767	0.75845118	0.3293673305	0.170592948	0.003671533
## 70	0.030463427	-0.43485377	0.3114185453	-0.162786790	-0.105331416
## 71	0.236974311	-0.01332784	0.5152059753	0.042981078	0.069070173
## 72	0.798719537	0.04333096	0.1603964110	-0.110160680	-0.043044821

## 73	0.128230633	-1.20756571	0.0574436633	-0.192285732	0.081590391
## 74	-0.245297971	0.96986874	-0.2247686095	0.177027618	-0.097075948
## 75	-0.380493976	-0.96570997	-0.2785118930	-0.062557157	-0.133286807
## 76	-0.211437055	2.15238487	-0.1457267195	-0.249198130	0.017694775
## 77	0.353483742	1.60572728	0.1386436660	0.455316789	0.059219017
## 78	-0.044001398	-0.73687342	-0.0534370485	-0.233699677	-0.162722642
## 79	0.127865311	0.55237307	-0.0909992820	-0.157674975	-0.038736106
## 80	0.247365259	-1.24698525	-0.0176808230	0.478086919	0.008768026
## 81	-0.289660902	-0.27117402	-0.9322438740	1.854933841	-0.551896319
## 82	-0.842260594	0.26826194	-0.8203838180	1.121354580	0.672516627
## 83	-0.278416414	0.82470350	-0.1922527440	0.156383219	0.049922405
## 84	-0.149378880	0.29505274	-0.0823109928	0.163415352	0.055893462
## 85	0.232316562	-1.88817444	-0.0774073222	-0.195889956	-0.109691214
## 86	0.087296232	0.48556537	-0.0739405670	0.117914277	0.249245646
## 87	0.460979450	0.73099246	0.2439841752	0.288589139	0.078209272
## 88	-0.228566807	-0.81166135	-0.1794053505	0.429982627	-0.164012483
## 89	-0.183152669	-0.58748143	-0.0452348905	0.158501066	0.000000000
## 90	-0.599605128	0.75131216	-0.0106133237	-0.263738518	-0.064243806
## 91	-0.337364257	-1.02134308	-0.1835661200	0.151644971	-0.126130842
## 92	-0.072952463	-0.50465144	-0.1604740200	0.121873398	0.065360068
## 93	-0.023184906	0.47451955	-0.1261264080	0.455319030	0.083426633
## 94	-0.148236103	0.35687958	0.9630906487	0.497566543	0.374012461
## 95	0.165880921	0.23381574	-0.0132087185	-0.036114358	0.013133386
## 96	-0.081368226	0.58859254	-0.1234702025	-0.280982811	-0.054382700
## 97	-0.002710727	-0.24384291	-0.3704826963	-0.040452176	-0.204075044
## 98	0.361819665	2.93578776	0.0539326370	0.514654280	-0.485866450
## 99	0.223089861	-0.23293605	0.0155312385	-0.417427434	-0.156523695
## 100	0.257706612	1.64074955	0.0975575545	-0.267995647	-0.175745173
## 101	-0.392908372	-0.26051212	-0.0846074633	-0.188392728	-0.041590064
## 102	-0.146046666	0.56620315	-0.1662521033	-0.351055398	-0.231062840
## 103	-0.466688133	1.51037462	-0.1217045990	-0.400714682	0.007105353
## 104	-0.144792562	-1.18650800	-0.3354341445	0.122343937	0.064227347

105 -0.349147871 1.84342961 -0.3287281600 -0.197134278 -0.183779917
106 -0.079975296 1.00675418 -0.0408712122 -0.172364868 -0.009408613
107 -0.118161751 0.67462094 -0.2093052535 -0.200341792 -0.033951516
108 0.205518099 0.37881824 -0.1929216700 -0.069502527 -0.224209906
109 0.025926155 0.53583154 0.0911809975 0.675244677 -0.414513257
110 -0.354004577 -1.33320701 -0.0752696625 0.376790248 -0.100780104
111 0.145498238 0.12886856 -0.1717848470 -0.188520656 -0.130797140
112 -0.065151039 1.76389383 -0.1311670190 0.040254666 -0.047794858
113 0.154966654 -0.80653647 -0.0776674890 0.131075459 -0.125120878
114 -0.359745847 0.80605683 -0.2620245410 0.284612939 -0.265898223
115 0.345068710 -0.38836108 -0.2247708275 0.344887214 -0.183847446
116 0.067198978 0.19109273 -0.4583808588 0.117267354 0.074764704
117 0.050173775 1.20427076 -0.2473525733 -0.024724960 -0.021946845
118 -0.128071576 -0.27353005 0.1816256525 0.071625307 -0.188583422
119 0.246721077 0.03599159 0.0426141365 0.727866493 0.459829524
120 -0.190255907 0.85657794 -0.0198468745 -0.145047669 0.050749321
121 -0.119428758 -0.33618127 0.0116307768 -0.175426937 -0.015943783
122 -0.243792546 0.44927624 -0.2955118740 1.257892113 -0.084649871
123 -0.628600904 -0.34479187 0.0464021690 0.324643517 -0.091855704
124 -0.000444462 -0.99607344 -0.0204090025 0.471404064 0.012249150
125 -0.279434971 -0.32029247 -0.1220269695 -0.303158781 -0.134630491
126 -0.194493583 0.70010878 0.0000000000 0.209735097 0.341865235
127 -0.039412849 0.97111625 0.1064399285 -0.190027767 0.015746461
128 -0.104834837 0.00000000 -0.1433204940 -0.280649742 -0.004536140
129 0.213628803 -1.10779191 -0.3175739110 0.080941503 -0.508679885
130 -0.297652191 -0.92173145 -0.1991770960 -0.233768034 -0.053779876
131 -0.316247133 0.58665621 -0.0321401130 -0.255686831 -0.159602468
132 -0.397032704 0.46256748 -0.0000600565 -0.030051036 0.253927425
133 -0.025203059 -0.31685626 0.4095871530 -0.112765646 -0.056988620
134 -0.064387732 1.13844919 -0.2917281673 0.540992347 -0.555973374
135 -0.039822999 0.06579276 -0.0374356017 0.288326945 0.053346231
136 -0.031148591 1.12721156 0.0072239187 0.111079738 0.065670878

## 137	0.071753326	1.98563161	-0.0464583508	-0.127574357	0.029351409
## 138	-0.163836004	-0.18076767	-0.1592923815	-0.389706463	-0.027093321
## 139	0.038869425	-0.41980973	0.0537005865	-0.122486626	0.022062645
## 140	-0.316462082	0.06108903	-0.0054055807	-0.127154092	0.779688130
## 141	-0.001247581	-0.97513451	-0.1774417260	-0.050938924	-0.035861377
## 142	-0.138371905	-0.05501218	-0.2525394597	-0.262677002	-0.051672841
## 143	-0.168568512	0.12972212	-0.2568198402	-0.392038838	-0.193968250
## 144	-0.075196109	-0.09949682	-0.1131012610	-0.144076907	-0.252193969
## 145	0.134780564	-0.81893582	-0.1364640105	-0.105274264	-0.054228534
## 146	-0.077544267	2.17307563	0.1695223765	-0.072902726	-0.018790055
## 147	0.487778231	1.09413986	0.1055301050	-0.448391061	-0.115033129
## 148	-0.070485945	0.80780463	-0.1277042690	0.024677530	0.005634030
## 149	0.180876088	0.66858007	-0.1651528005	0.285058686	0.178626875
## 150	-0.079010828	-0.95958342	-0.1762363312	0.001890077	-0.047861559
## 151	0.114826269	0.57903871	-0.1688220785	0.143859730	0.191502214
## 152	-0.284352871	-0.35673331	-0.1651487355	-0.213874357	0.045850913
## 153	-0.539302117	-0.57913563	-0.3904663490	-0.128852745	0.146906190
## 154	-0.165360378	-0.64703431	-0.0795608822	0.457378610	-0.017823420
## 155	-0.016063687	1.41190829	-0.1843237712	-0.111647819	-0.080884229
## 156	0.353574797	1.30530546	0.0714883550	0.566503017	-0.084278434
##	pp_Bim	pp_C.Raf	pp_C.Raf.pS338	pp_CD20	pp_CD26
## 1	0.400727499	-0.1104808230	0.084132130	-0.2467133325	-0.102900107
## 2	-0.516197117	0.0100579005	0.002412613	-0.2000314240	-0.088393388
## 3	0.749386916	0.0168176895	-0.055886303	-0.0099375380	-0.084586588
## 4	1.443654399	0.0641296887	0.111585501	0.0738131713	-0.001563837
## 5	-0.195101586	0.0446839170	0.241797941	-0.2184306115	0.044818709
## 6	-0.499151864	-0.2179819140	-0.303761688	-0.0381430345	-0.122703791
## 7	0.000828026	0.1833142575	0.363328523	0.1717443650	-0.374180464
## 8	0.069284391	0.3502169890	0.008595455	0.0778742585	-0.259702475
## 9	-0.349317649	-0.1128667100	0.046247701	0.2894587025	-0.174160877
## 10	1.080512363	0.0897167253	0.014397070	-0.0370399923	-0.117686313
## 11	0.036572666	0.0004456495	-0.118314329	-0.0707195330	-0.140010689

## 12	-0.139188256	0.0007088125	-0.176039755	0.2490665580	-0.069521822
## 13	0.182797272	0.1346976920	-0.167272182	-0.1529466665	-0.185330016
## 14	-0.098344366	-0.3640394730	0.095299376	-0.1064565205	0.018307503
## 15	0.774554935	0.0843156220	-0.267045395	-0.0610965795	0.010919554
## 16	0.017033461	0.1354182910	0.001029643	-0.2232638955	-0.180005085
## 17	1.221607114	0.5326094465	0.034946519	-0.1882520200	-0.175187447
## 18	-0.182525705	0.0142744555	-0.229357777	-0.0643584050	-0.165006828
## 19	0.675487738	0.1141724735	-0.007983529	-0.2195250260	-0.057848442
## 20	0.694261006	-0.1534831380	-0.210967095	-0.0807096215	-0.200718149
## 21	-0.277977253	-0.2328377785	-0.168372098	-0.1442601830	-0.254010584
## 22	0.661901866	-0.6119554075	0.180818320	0.0600657850	-0.300530138
## 23	-0.315850915	0.3640391050	-0.067787038	-0.1311835985	0.008883047
## 24	-0.737396123	-0.0020577305	0.048215451	-0.1836357790	0.019331219
## 25	0.097755364	0.0936724305	-0.049013471	-0.2192680490	-0.133775660
## 26	0.473499069	-0.2916365080	-0.256432245	0.0303457955	0.029131280
## 27	-0.282803892	-0.1476339550	0.000000000	0.0366776505	-0.191512907
## 28	0.338485278	0.1939710250	-0.186569662	0.1659240895	-0.134460824
## 29	-0.260538153	-0.4894346920	0.490646099	0.6360872415	-0.206394515
## 30	0.031644283	-0.2849333785	0.250581155	0.4697143930	-0.253516435
## 31	0.053829029	-0.7062579960	0.025231241	0.6394825915	0.221161721
## 32	-0.152637080	0.1131094560	-0.324953068	-0.0002098455	-0.170932327
## 33	0.271279154	0.0079175675	0.171934374	0.7422548820	-0.145804168
## 34	-0.007930175	-0.1786284475	0.127058865	0.4167949360	-0.049484416
## 35	-0.397134482	0.0892012695	-0.053640972	0.1065315290	-0.044255841
## 36	0.186353448	-0.3971131515	0.062779201	0.2457149280	-0.102492557
## 37	-0.050496424	0.2817089600	-0.262928357	-0.0721895255	-0.042960975
## 38	0.200066586	0.2895543205	-0.297522776	-0.0133177540	-0.021246118
## 39	0.207494626	0.3340171665	-0.190821909	-0.1207263690	-0.023186605
## 40	0.133479178	0.0081200990	-0.159505661	-0.0311795885	0.044839247
## 41	-0.726577548	-0.0061103585	0.088881375	-0.2485397180	-0.226430641
## 42	-0.845289974	-0.0024906330	-0.026481625	-0.1133426235	-0.156600074
## 43	-0.513636943	0.0854345535	-0.047869831	-0.1156881300	-0.252911831

## 44	0.096136886	-0.2022749680	0.446898287	0.6101563385	-0.592028172
## 45	-0.119705536	-0.2607704495	0.359394359	1.2606721230	0.146359012
## 46	0.953417903	0.2400749630	-0.067371724	-0.0594639925	-0.294722231
## 47	0.106889390	0.0880494275	-0.390014853	0.1298382400	-0.312132129
## 48	0.434390572	0.4513099235	-0.208432017	0.1172057480	0.099251051
## 49	-0.157523692	-0.5397676975	0.579454469	0.5252401010	-0.427642116
## 50	-0.263555981	0.1098980090	-0.099464634	-0.3057861845	0.035722578
## 51	-0.483116579	0.0025401290	0.043424128	-0.2406775335	-0.164886222
## 52	0.068448620	-0.8991116445	0.667551732	0.7585750690	-0.425407691
## 53	0.065779669	-0.0925677335	-0.191970034	0.0337775820	0.100088162
## 54	-0.380519083	0.1093784935	0.089751147	-0.0753871500	-0.007840818
## 55	0.642728730	0.1862060595	-0.337741324	0.1768958650	-0.231406240
## 56	-0.564380403	-0.1741736710	0.022658604	0.0903985895	-0.120810548
## 57	-0.119063428	-0.5180754650	0.347799763	0.7292617935	-0.201052115
## 58	0.077746742	0.1033177980	-0.302339411	0.3648935225	0.007181615
## 59	0.321107729	0.2495171215	-0.296324513	0.1088233630	0.166698520
## 60	0.032998218	0.3499710830	-0.148135231	0.3710638585	0.075858094
## 61	1.640376669	-0.1360963660	0.015547009	0.1636459215	0.186411734
## 62	0.473636169	0.1883531760	-0.049229372	0.0831393655	0.278365904
## 63	1.444947089	0.0164076925	-0.087355075	0.0600406880	-0.175166186
## 64	-0.263195125	0.1678020935	0.426384785	0.6960883310	0.273564971
## 65	-0.317803035	0.1913314728	0.077269146	0.6933892087	0.107002882
## 66	-0.103105252	0.1358288472	0.009080881	-0.1884199582	0.341411551
## 67	-0.274541597	-0.0240302685	0.117386455	0.2438737730	0.385348058
## 68	-0.673737163	0.0591419912	0.317389658	0.4087542033	0.813310084
## 69	0.309480180	0.1225088755	0.335535871	-0.0299679205	0.165412856
## 70	0.266140887	0.3641310473	-0.252650885	-0.2189610047	-0.302887580
## 71	-0.325166243	-0.0659652657	-0.055336991	0.3599973612	-0.091277228
## 72	-0.148204192	0.0378937840	-0.014659378	-0.0016247850	-0.098705703
## 73	-0.456115523	0.2806598042	-0.016803312	-0.1886620697	-0.184838139
## 74	0.572819355	-0.0693758065	-0.068175234	0.0839073690	-0.075739629
## 75	-0.251966374	-0.2443618240	-0.165611066	-0.0865304605	-0.237956913

## 76	1.448632350	0.6046226275	0.185633527	-0.2876641120	-0.028400326
## 77	0.555502337	-0.0042718980	0.164761641	0.5849863805	-0.545839817
## 78	-0.388237868	0.1668155975	0.102989695	-0.2243717180	-0.389696525
## 79	-0.120576271	0.1885661280	0.041272229	-0.0515332675	-0.011017465
## 80	-0.367085086	-0.1164428940	0.232932502	0.1623621045	0.432921083
## 81	-0.875412698	-1.0538325785	-0.703936941	-0.5148203780	-0.603295155
## 82	-0.463421311	-0.2310166375	-0.269150268	0.0217777470	0.507927379
## 83	-0.092408533	-0.1402540260	0.212858908	0.3697784070	0.263205851
## 84	-0.202612175	-0.1262554958	-0.062402909	0.3086487473	0.111887428
## 85	-0.401205321	0.1319681028	0.106624287	-0.2120876772	0.079932338
## 86	0.524227507	-0.4324680060	0.326187123	0.2241034875	-0.077973544
## 87	0.663402540	-0.2224905658	0.043443615	0.2380935557	0.533226768
## 88	-0.405164975	0.4582715995	0.230977457	-0.1719223730	-0.133492803
## 89	-0.164844133	0.2214607125	0.103644053	-0.0596602910	-0.109349583
## 90	0.781825253	-0.1438998057	0.125633876	0.0135978568	-0.162129986
## 91	-0.466494054	0.1908691790	0.108648953	-0.0436256145	-0.294664368
## 92	-0.797768669	-0.1452066450	0.210312220	0.1064208095	-0.163091669
## 93	-0.003235943	-0.0854537950	0.240483779	-0.1341061075	-0.190371472
## 94	-0.293748746	-0.2510205382	0.208733694	0.7820356162	0.226203642
## 95	-0.156279231	-0.0374212105	-0.136389038	0.1926385180	0.112498106
## 96	-0.253972778	0.0747215035	-0.054590046	0.0073986150	-0.185760389
## 97	0.931133045	-0.3398819623	0.604367244	-0.3168016377	-0.156106430
## 98	0.922105182	0.0709881590	-0.051382921	-0.0301112985	0.172115771
## 99	-0.316458960	0.2055869105	-0.183300955	-0.2498703450	-0.210207584
## 100	-0.104785703	-0.0084730485	-0.009077925	-0.5699060200	-0.047023910
## 101	0.035982766	-0.0913168873	-0.155779969	-0.1556999417	-0.327521286
## 102	-0.429623216	0.0874650417	0.087747825	-0.1693717427	-0.371288039
## 103	0.936115663	0.0839863900	0.000000000	-0.1643618135	-0.150154214
## 104	-0.634797865	-0.2078212365	0.237666568	-0.0035400820	-0.021486673
## 105	0.953512416	0.2058115350	-0.089458219	0.0526321555	0.055516977
## 106	0.903429655	-0.0704124772	0.006874944	-0.1330762728	-0.225105838
## 107	-0.827596581	0.1503043845	0.092568211	-0.2924341570	-0.083507212

## 108	0.282807091	0.0807626640	-0.219821278	0.1005456925	0.132020112
## 109	0.106091827	0.0082847895	0.107855539	0.2657439230	0.046518600
## 110	-0.474150519	-0.0008663495	0.167158229	-0.4605117890	-0.120437303
## 111	-0.361115423	0.3770507510	0.129004671	-0.3229467655	-0.269118221
## 112	0.121462516	-0.1324394580	0.102932265	0.0928299425	0.079244071
## 113	0.112411399	-0.2926175100	0.151170511	0.0327831965	-0.100318899
## 114	0.276742553	0.0382019190	-0.128283229	0.1988053505	-0.091609568
## 115	-0.098261224	0.0407310085	0.320264587	-0.0835927210	-0.247456118
## 116	0.176367422	-0.0571891608	0.083001261	-0.2443843863	-0.080508238
## 117	0.563308925	0.0738570218	0.050957270	-0.1371008918	-0.351178436
## 118	-0.498463879	0.3708534145	-0.050245812	-0.1164007510	0.000000000
## 119	0.128410846	-0.8908173325	0.646998677	1.0586230370	-0.506933953
## 120	0.452860934	0.1332624685	-0.051712794	-0.1072863380	-0.091040523
## 121	0.134823073	0.2995989808	0.240736660	-0.2045389458	-0.055098358
## 122	-0.494663062	0.0143962710	-0.142094674	0.8490087495	0.013156822
## 123	0.456831019	0.2258431980	-0.035973103	-0.2804186195	0.266771745
## 124	-0.152615399	-0.0293921285	0.115870456	-0.1885825270	-0.034610147
## 125	-0.305996420	0.3109556665	-0.155572648	-0.2798520210	-0.132164632
## 126	0.251818767	-0.0006839200	0.346190843	0.0545430275	-0.096517747
## 127	0.089004981	0.4760324195	-0.120742730	-0.2401448150	-0.140558529
## 128	-1.170633554	0.2256326050	0.028301111	-0.2430039065	-0.223707713
## 129	-0.040101002	0.2246706300	-0.305286460	0.0891294275	-0.014727093
## 130	-0.622243432	0.2691164600	-0.102770381	0.1586487575	0.063928458
## 131	-0.169127945	0.2562276410	-0.026107297	-0.2772848335	-0.033422460
## 132	0.067961284	-0.0841483145	0.096687588	0.2314509890	0.034306486
## 133	-0.361795088	-0.0454192860	0.089663397	0.0253705605	-0.268656289
## 134	0.278668713	-0.0933309093	0.006500928	-0.2348704262	0.530546635
## 135	-0.075876272	-0.0030505257	0.057491752	0.0026148753	-0.066754704
## 136	0.637178697	0.2642157677	-0.225951082	0.0833406202	0.305972299
## 137	1.207072142	0.1966241582	-0.093255348	-0.1755310362	-0.052295412
## 138	0.069829455	-0.0452587115	-0.132246838	0.0835562490	-0.265575966
## 139	0.870947517	0.0799417695	-0.000884582	-0.0201260280	-0.071171475

## 140	-0.068383170	0.0999503123	0.003661686	0.0545541278	-0.143315676
## 141	0.275452286	-0.0242401980	-0.047602553	-0.0781147995	-0.157135833
## 142	-0.181685884	0.1166959522	-0.024252324	-0.1004751702	-0.226449343
## 143	-0.104110490	0.0233753337	0.177398813	-0.0413650708	-0.217449624
## 144	0.402826321	0.0301734630	0.041543993	-0.0119131495	-0.172097308
## 145	-0.543587823	-0.1331520325	0.024909813	-0.1576965050	-0.080245762
## 146	1.097248558	0.1649893645	-0.104494051	0.1197951250	-0.099781495
## 147	0.165127511	0.0033393540	-0.109225562	-0.1480717225	-0.273412033
## 148	0.729170868	0.0054342960	-0.100405165	0.0127512585	-0.160238244
## 149	0.004468900	-0.0214392765	-0.007717739	-0.1234902510	-0.124445837
## 150	-0.487174117	-0.0396595003	-0.106983882	-0.0079382687	0.523650005
## 151	-0.310275115	-0.1166267765	0.001533455	0.1595689380	0.127170814
## 152	-0.124340537	-0.0900120095	-0.142201121	-0.0212143510	-0.165384766
## 153	-1.016428043	-0.2039208860	0.008176506	-0.2470995845	-0.064009542
## 154	-0.709107931	-0.0080984262	0.297782705	0.0652337893	-0.091896445
## 155	0.860343530	-0.1360693383	0.089730274	0.0258181412	-0.282934329
## 156	0.378993859	-0.1257259290	-0.247490474	0.3093888505	0.192217944
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## 1	-0.0002175045	-0.070356752	0.104321491	-0.0994929530	
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## 3	0.4777961260	-0.283907967	-0.097603485	-0.4266904715	
## 4	-0.3696545087	-0.392437622	0.163207507	-0.1963267512	
## 5	-0.2010816635	-0.266107779	-0.099378715	0.0558613420	
## 6	0.3636887130	-0.309278438	-0.271787950	-0.0025346125	
## 7	0.2213695330	0.346929915	-0.763838395	0.1612640125	
## 8	-0.0892078885	0.354033997	-0.225949605	0.2364645830	
## 9	-0.2022098575	0.399338539	0.196886970	0.3735585720	
## 10	-0.3016762383	-0.346694435	0.006425423	0.0933322703	
## 11	0.3361904290	-0.207716578	-0.046782706	0.1223852765	
## 12	-0.0994270155	0.431185193	-0.027401420	0.0508103990	
## 13	-0.4565945950	0.251376624	-0.437633229	0.2073051365	
## 14	0.0083958910	-0.293757180	-0.434575871	-0.0848143805	

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78 -0.2338194435 0.103866547 -0.230824600 -0.3457152350

## 79	0.2598516210	-0.351861070	0.192407844	-0.1144367245
## 80	1.0383460285	0.345867386	-0.432679042	0.4021990740
## 81	0.0040408375	1.814857659	-0.346707286	0.0384160605
## 82	-0.5220621405	0.966621134	-0.825079200	-0.6178666375
## 83	0.0306610665	0.089866363	-0.211189121	-0.1608454885
## 84	-0.4363856783	0.134252490	0.422331415	-0.1122011702
## 85	-0.0429549208	0.262043094	-0.464549710	0.0394397553
## 86	0.2279924460	-0.314126585	-0.175146108	0.1345777055
## 87	0.2815043757	-0.157235991	-0.963343274	-1.1613120828
## 88	0.0545761475	0.202794454	-0.006153310	-0.0385975010
## 89	0.7110713405	-0.126212219	0.655499902	-0.1921519350
## 90	-0.2380450273	0.009306456	0.445328414	0.1107302043
## 91	-0.2645933030	-0.171169634	0.107448941	-0.1082009545
## 92	-0.0977736300	-0.180173572	-0.247141300	-0.2701087165
## 93	0.3251157350	0.455828650	-0.638384001	-0.0980501215
## 94	-0.1232535017	0.069411740	-1.646950095	-0.2227479632
## 95	0.0491192150	-0.262842970	-0.229556715	-0.2674788155
## 96	-0.0248862795	0.105255894	-0.047014791	-0.2817759390
## 97	0.0969687252	0.486714326	-0.943437502	0.3877758017
## 98	-0.2974000600	-0.400884313	-0.485393186	-0.2859327285
## 99	-0.5497296645	0.103463495	-0.024330371	-0.0519315530
## 100	-0.0170112775	-0.080622304	0.152209132	-0.1023616870
## 101	-0.0076572398	-0.202786407	0.081083509	0.1171845508
## 102	-0.0510218697	-0.105274155	-0.139213039	-0.0649478542
## 103	-0.6011406650	-0.290171574	0.036417615	-0.2552067115
## 104	0.1523505255	-0.020028926	-0.218238992	-0.2479220150
## 105	-0.2798981190	-0.126517727	-0.165906317	-0.2160595125
## 106	0.1671709112	0.003395020	-0.220154749	0.0319089227
## 107	-0.0682792465	-0.233276968	0.158671028	-0.0974651390
## 108	-0.1715117650	-0.113731488	0.283491719	-0.0331890635
## 109	-0.0937474995	-0.590868587	-0.177973558	-0.7888559020
## 110	-0.2519088565	0.178056640	0.372348982	0.1235951630

111 -0.1268494050 0.072974000 -0.138614475 -0.2199801575
112 0.2050492670 0.235118082 -0.256260591 -0.0305977425
113 -0.0638456130 0.083745960 -0.318960084 0.0856275715
114 -0.0792098190 -0.582127553 0.096004810 -0.0177464995
115 -0.3722901180 0.435568636 -0.118904710 0.0072901865
116 -0.0640522653 0.132951083 -0.134911399 -0.1433046297
117 0.0729280783 -0.127753770 -0.008264946 -0.1779497443
118 -0.1290570155 0.114680801 -0.004748101 0.2171493120
119 0.5508169165 0.107935559 -1.517116760 0.0815005800
120 0.2522134310 -0.274430336 0.937464804 0.1163646205
121 0.1782042692 -0.088231903 0.155264318 0.0435612798
122 0.1634549930 0.404388547 -0.449088373 -1.5608055275
123 -0.2971518280 -0.166298425 0.544183378 0.3633614835
124 -0.2534650395 0.280803442 0.014064695 -0.0536566410
125 0.2755935635 0.075719103 0.040701512 -0.0217475360
126 0.1898046790 -0.077774008 -0.292723474 -0.0692737875
127 0.0267305965 0.044559489 -0.138658089 -0.0266488390
128 -0.1327670720 -0.224145357 0.259673125 -0.3172338965
129 -0.2525944840 0.063848421 -0.111655745 -0.3033982195
130 -0.2599987720 0.064111519 0.135263976 0.0003725475
131 0.1519801770 -0.029785670 0.428803534 -0.1524635075
132 -0.0057029065 0.381237958 -0.003537941 0.2746883930
133 -0.2950783930 -0.010981283 0.289865297 -0.2159744175
134 -0.8757548407 -0.104307853 0.726710615 -0.0652196887
135 0.1587103958 0.024714057 -0.138382141 -0.0932046642
136 -0.1551363508 -0.200413643 0.082415695 -0.2797350933
137 0.4426125687 -0.130202259 0.023864286 0.1223353562
138 0.0009436310 0.096473785 -0.380510054 0.2509906775
139 -0.3193816400 0.091107214 -0.046050557 0.1217156795
140 -0.0423717022 -0.061676354 0.349517487 0.1753689502
141 0.4988276185 -0.081336817 -0.265230320 0.1676555390
142 -0.1196387913 -0.064254614 0.168061197 0.0959496612

## 143	0.6383707162	0.119945780	-0.158344146	0.1544032177
## 144	-0.3793651505	-0.085644334	0.016934359	0.0927784130
## 145	-0.0912229300	0.203375313	-0.547536294	0.2009343215
## 146	0.1596397625	-0.109631882	0.039400652	0.0219305260
## 147	0.1467731500	-0.268196337	0.153560532	-0.2006554875
## 148	-0.0348149855	0.107043078	-0.185103076	0.2658592640
## 149	0.1512371550	-0.099113542	0.227613653	0.1298223385
## 150	0.4411926032	0.103864027	0.255316346	0.0137920347
## 151	0.1704478990	-0.069593289	-0.638311333	-0.3061008525
## 152	0.0262854450	-0.216466207	0.647142587	0.1825832805
## 153	0.0014491685	0.017478364	0.566606825	0.1052678080
## 154	-0.1635940187	0.391825800	-0.392207011	0.0014146388
## 155	-0.2840028808	0.177210401	-0.384556182	0.0046956007
## 156	0.0211332750	-0.414292791	-0.729078522	-0.3987176625
##	pp_Caspase.7.cleavedD198	pp_Caspase.8	pp_Chk1	pp_Chk1.pS296
## 1	-0.198391286	-0.0468808410	-0.1332622815	-0.151880202
## 2	-0.429186822	-0.0352752830	0.0570498095	-0.238308639
## 3	-0.157181717	-0.2174411795	-0.1842867500	-0.352920969
## 4	-0.346562340	0.2737548887	0.1313050433	-0.005763171
## 5	-0.089501556	0.0421104610	0.0713190855	-0.024216761
## 6	-0.012743689	-0.2882700645	-0.1389805210	0.291673806
## 7	0.788234155	0.2354902995	0.5785332940	0.366988872
## 8	1.415228203	-0.2561861160	-0.1024161335	-0.073147307
## 9	-0.152611141	0.1425970220	0.0283476895	0.156145676
## 10	-0.124265442	-0.1287225378	-0.2303104173	0.007136731
## 11	-0.154859805	0.0937069455	-0.2368135410	-0.149622167
## 12	0.848052668	0.1023036280	0.0977518605	0.151581771
## 13	1.122425549	-0.1742424535	-0.0441653680	0.115435435
## 14	-0.202555785	-0.0794644525	0.0565745020	-0.196858197
## 15	-0.469842826	0.0528262975	-0.2410964620	-0.154885936
## 16	-0.794076861	0.0233440435	-0.2452121480	-0.378417160
## 17	-0.684339105	-0.2982184510	0.0334740175	-0.072197936

## 18	-1.103394916	-0.2503021500	-0.1098550685	-0.428471373
## 19	-0.353531707	-0.0975843820	-0.1178803755	-0.046557829
## 20	-0.078440446	0.0806280415	-0.0681876350	-0.070993797
## 21	-0.412046784	0.0675480020	-0.1545923785	-0.266533656
## 22	2.881180566	0.1749120090	0.8299998325	0.103718325
## 23	-0.060908018	0.1471071855	0.1907043840	0.072611201
## 24	1.259251757	0.1248617265	0.2083916100	0.195462829
## 25	-0.132658182	-0.1192841610	0.0256838045	-0.098091229
## 26	-0.736714169	-0.1721822975	-0.0507286720	0.067302463
## 27	-0.439598508	-0.0591509315	-0.1539828720	-0.383926673
## 28	1.203894165	-0.0381634925	0.0989415480	-0.026954224
## 29	0.097012866	0.5424171445	0.4050939420	-0.323262038
## 30	-0.307164420	0.5054147730	0.1201056425	-0.423183606
## 31	-0.225501438	0.7290452875	0.2795271600	-0.367599215
## 32	-0.211093481	0.2260449085	-0.1058335120	-1.167878123
## 33	-0.097390980	0.6107070990	0.0029089725	-1.486334272
## 34	-0.235239691	0.2500307240	0.0943517045	-0.362876076
## 35	-0.599880379	0.2600309370	-0.1415258125	-0.154540854
## 36	1.768902302	0.4929638130	0.1966020425	0.103007694
## 37	-0.654120235	-0.0051404705	-0.2099579480	-0.874881103
## 38	-0.192005852	0.0093135680	0.0314732705	-0.159418100
## 39	-0.140567231	0.0238556960	-0.0007753595	-0.138029138
## 40	0.589953963	0.1574828625	-0.0250499140	0.208632149
## 41	0.290757291	-0.1697890080	0.1357861445	-0.014206059
## 42	0.246849244	-0.0561294905	-0.0646276600	-0.069522004
## 43	0.014725248	-0.1843329910	-0.1068432505	-0.168176506
## 44	0.212518138	0.4258218965	0.3722656730	-0.672604543
## 45	0.264152416	0.8090786700	0.1676043615	-1.047273741
## 46	-0.364860434	-0.1023339055	-0.1768252050	-0.284229175
## 47	-0.615288557	0.1874207550	-0.1971756415	-1.503944659
## 48	-0.138683754	-0.0442500080	0.0628925485	-1.017267289
## 49	0.343858542	0.4078714160	0.5689305745	-0.048712974

## 50	-0.612188263	0.1296875435	-0.1085582110	0.097541864
## 51	-0.242611551	0.3326658215	0.0980388020	0.292060792
## 52	0.348693791	0.4129720580	0.8278592315	-0.440735108
## 53	-0.322949882	0.0873954910	0.0406607815	-0.014629217
## 54	1.224075032	-0.2003124500	-0.1455909465	-0.094177991
## 55	-0.440796788	0.4146954210	-0.3490860235	-1.639553691
## 56	-0.207197294	-0.1551933995	0.1059732710	-0.000567137
## 57	0.106621311	0.5135735995	0.3411198600	-0.572232247
## 58	-0.369595289	0.2563453475	-0.0655252540	-1.169116630
## 59	0.002716759	-0.1978671600	0.0136804765	-0.147311956
## 60	0.351945840	0.2062051035	-0.0271211050	-0.790206385
## 61	-0.320079698	0.0255622790	-0.0040410175	-0.289042242
## 62	0.267128874	-0.1436020000	-0.0269324045	-0.098704140
## 63	0.017825423	-0.2699102245	-0.2501109260	-0.101338820
## 64	0.492165297	0.7836803135	0.6117003310	0.474982739
## 65	0.382040526	0.4257591163	0.2584351168	0.109062332
## 66	0.091140717	-0.0901968747	-0.0947628943	-0.225064706
## 67	0.159478011	0.4246168015	0.2301709600	0.423111720
## 68	0.619198383	0.2776701348	0.3456539303	0.567116527
## 69	0.209851506	0.2143620290	0.0687005335	0.128777632
## 70	0.354503605	-0.3228415893	-0.0926112418	-0.027483245
## 71	-0.189592149	0.5801882708	0.0965848023	0.029063802
## 72	1.893122951	0.1454781275	0.0587209000	0.137594088
## 73	0.780415900	-0.0907116073	0.1271385172	0.004429393
## 74	-0.606331234	0.0965960450	-0.0458007565	-0.412016359
## 75	-0.308812117	-0.2159772565	0.0313898550	0.260572296
## 76	-0.261691784	0.0000000000	-0.0036730155	0.088836220
## 77	-0.603158523	0.1519465935	0.2217884190	-1.336698201
## 78	-0.487320314	-0.2159062850	-0.0231974845	-0.193593683
## 79	-0.927669233	0.1050859755	-0.0126620710	-0.094504676
## 80	0.317482979	0.1615905860	0.3465704555	0.348333334
## 81	-0.735383012	-0.0845795835	1.7213779310	-2.047098475

## 82	-0.113598420	-0.3541491365	1.0650952330	-0.388761792
## 83	-0.821430869	0.3765221755	0.2066027090	0.198991253
## 84	-0.552462967	0.1888832907	0.1300330712	0.107356958
## 85	-0.732828161	-0.0999009707	-0.0166506093	0.028852658
## 86	-0.144546212	-0.2655408245	0.1932110580	0.199111759
## 87	0.278479821	-0.0014311797	0.0654204128	-0.402571205
## 88	0.596354416	0.1233842520	0.1955109525	0.039054627
## 89	-0.404874402	0.1358641980	-0.0951601985	-0.308119680
## 90	-0.573694315	-0.3139762588	-0.2015352693	-0.133664260
## 91	-0.014773741	0.0377139415	-0.1170426680	-0.254259919
## 92	-0.542416721	0.3086236785	-0.0100665870	-0.314172686
## 93	-0.323116687	0.1283112465	0.3036813560	0.288732335
## 94	0.144636195	0.1793111187	0.3724024783	-0.113213384
## 95	-0.013871850	0.0231562695	-0.0946631980	-0.106310838
## 96	-0.015115278	-0.1092455030	-0.2481786055	-0.115431554
## 97	1.160470657	-0.0965856582	0.6900965823	0.146404890
## 98	0.342705109	0.1395425385	-0.0971990340	-0.585645118
## 99	-0.599089884	-0.3837766860	-0.0248198575	0.229398905
## 100	-0.250774853	-0.2211636290	-0.0743781725	0.095457251
## 101	1.119821317	-0.0751845242	-0.2293514027	-0.207411148
## 102	-0.599336725	-0.2731334472	-0.1177746948	-0.258218796
## 103	-1.072067757	-0.0387527965	-0.2198772140	-0.370855073
## 104	-0.285359660	0.3006708130	0.1060886705	-0.108608347
## 105	-0.589233273	0.1151841735	-0.1211619120	-0.086053973
## 106	-0.289937017	-0.1935805912	-0.0278808967	-0.091422942
## 107	-1.001399208	0.0090057750	-0.1781701875	-0.197533205
## 108	0.129635919	-0.1136604805	-0.2967228970	0.109354721
## 109	-0.029424456	0.2043308400	0.1980217235	-0.769359980
## 110	-0.118037285	-0.3142881970	0.1279090495	0.355391693
## 111	0.317959687	-0.1593725875	0.0150208110	0.077267836
## 112	-0.691326266	0.0394901705	-0.0086985000	0.157422199
## 113	0.498127427	0.2229226135	0.3502965800	0.022238102

## 114	-0.540574937	-0.2566338385	-0.1665076950	-0.822748944
## 115	0.515455351	0.0032439345	0.1173258280	0.081171717
## 116	-0.571190196	-0.1766516978	-0.1602440833	0.048827522
## 117	-0.323674479	-0.1955518982	0.0385872843	-0.023883875
## 118	1.488371487	-0.1169481180	0.0544652055	0.085918314
## 119	0.242476458	0.3935426870	0.5776900275	-0.236047527
## 120	-0.564721086	-0.1127745125	-0.0872027830	-0.111823317
## 121	-0.029590014	-0.1880699792	-0.1183446988	-0.034815014
## 122	0.041219261	0.3496851105	-0.0301727440	-0.816362118
## 123	-0.804568114	-0.2436170975	-0.1338171950	-0.047158910
## 124	0.185480981	0.1400276260	0.1692196865	0.191340329
## 125	-0.327474457	-0.1405649560	-0.0817132805	-0.052185371
## 126	0.415419998	0.0015693125	0.2848479790	0.013983614
## 127	0.305926699	-0.2422664390	-0.0546914625	0.055716946
## 128	-0.566970900	-0.0119967185	-0.1919017170	-0.210621023
## 129	-0.297686744	0.1371952595	-0.1511629450	0.008878858
## 130	-0.113481724	-0.0318364775	-0.1260853740	0.156241983
## 131	1.053911411	0.5119163505	-0.0519089330	0.036949515
## 132	-0.447360279	0.4239448620	-0.0037792725	0.024730575
## 133	0.395623304	0.2180590555	-0.1376557160	-0.243139060
## 134	-0.114875351	-0.0004923317	-0.2316317462	0.267807892
## 135	-0.856055437	0.3673221888	0.0801442232	0.187571394
## 136	0.302300585	0.1046710477	-0.1936959747	-0.079613052
## 137	-0.374382446	-0.2008649168	-0.1155925232	0.020395771
## 138	-0.068454509	-0.1716963125	-0.0503402480	-0.120094902
## 139	0.832383617	-0.0826842355	-0.1853167370	-0.029227352
## 140	0.533636030	0.0946545353	-0.2399107263	-0.010781843
## 141	0.830124969	0.1604030450	-0.0815208115	0.029158323
## 142	0.623496258	-0.1682541107	-0.1038799783	-0.042941899
## 143	-0.645438859	-0.3109554212	-0.0280534838	-0.014642345
## 144	1.236496957	-0.1514226630	-0.1780965255	-0.048726604
## 145	1.002363097	0.0421526215	0.1124927650	0.055909895

## 146	0.153276667	-0.1060343280	-0.0780872735	-0.240632995
## 147	-0.178297047	-0.0945695895	-0.0148827650	-0.209565937
## 148	-0.156151392	-0.0685427720	-0.0236251035	0.069536018
## 149	-0.251103864	-0.0095982015	0.0755094570	0.054757681
## 150	-0.271523065	-0.0847536682	-0.0966041117	-0.239805872
## 151	-0.213688070	0.2376370895	0.1434612590	-0.128297542
## 152	-0.299630138	-0.0253474325	-0.1242344760	-0.061596051
## 153	-0.351516833	0.1245711880	-0.0922959505	-0.078251956
## 154	0.065163538	0.1987726117	0.3019123093	0.228896190
## 155	-0.275648398	-0.2587745902	-0.1278596748	-0.128666396
## 156	-0.004891453	-0.0026847525	0.1246168740	-0.434682727

##	pp_Chk1.pS345	pp_Chk2	pp_Claudin.7	pp_Cyclin.B1	pp_Cyclin.D1
## 1	-0.091457253	0.209273644	0.051992851	-0.77449022	-0.325200972
## 2	-0.088462104	0.002242690	-0.388512573	-1.59308810	-0.336132692
## 3	-0.078618232	-0.226142019	-0.019056993	0.57558773	0.150512180
## 4	-0.012208115	0.485344883	0.417098932	-0.41268474	0.258777409
## 5	-0.218551183	-0.205670586	-0.253554126	-1.22986630	0.011939553
## 6	-0.212797239	0.639857488	1.531718914	0.19195035	-1.120358689
## 7	0.067588532	-0.352205984	-0.407416051	-0.78024565	0.180734668
## 8	0.351357939	0.668822961	-0.672216616	1.33872861	-0.231923909
## 9	0.051320052	0.515685119	-0.592373494	1.53795458	-0.036989500
## 10	-0.193609714	-0.302765395	-0.154781221	-0.27689447	-0.074018784
## 11	0.043775564	-0.186386011	0.279637939	0.39920959	-0.054665516
## 12	-0.097083281	0.396240760	-0.649281013	-0.30158442	-0.276854141
## 13	-0.084281625	-0.035235395	1.727871654	1.35016791	-0.331963396
## 14	0.143565411	-0.750356270	0.166156670	-1.64653011	0.258445910
## 15	-0.166040783	0.255274552	0.936473963	-0.25088296	-0.114883676
## 16	0.001756154	0.087104920	-0.098624223	-0.40023268	-0.196849841
## 17	0.235985948	0.694396344	0.615553612	-0.42004751	0.741411895
## 18	-0.163820242	0.170236085	-0.619660638	-0.62394213	0.406356175
## 19	0.017963756	0.254337927	1.004408986	-2.23710460	0.049516008
## 20	0.080789030	0.054843959	-0.469475441	0.73777415	-0.414202485

## 21	-0.015578984	0.345097599	-1.003318346	0.44567882	-0.468586004
## 22	0.246749647	0.437737634	0.134177624	1.67415235	-0.317996844
## 23	0.090679044	0.206010157	-0.501347814	0.44056752	-0.138855160
## 24	-0.008156444	0.513662684	-0.045504747	1.37793266	0.126565110
## 25	-0.099753394	0.163184230	0.976220868	-0.46507474	-0.360068226
## 26	-0.104875012	0.063535705	0.949251385	0.35733989	0.336714160
## 27	-0.109255650	0.017788257	-0.799196155	-0.68104444	-0.150424517
## 28	-0.066718456	0.417391338	-0.320529717	0.30722071	-0.295250828
## 29	0.270845258	-0.874967373	-0.344825971	-1.32510719	0.849149170
## 30	0.037065956	-0.621789560	-0.255290306	-1.39503452	0.424170259
## 31	-0.323621517	-0.339160368	-0.394626186	-0.39207766	0.871057575
## 32	-0.642971384	-0.383001355	-0.425515319	-0.80642365	-0.008583142
## 33	-0.222813319	-0.542585612	-0.426382891	-1.15365685	1.028844563
## 34	-0.037041295	-0.236515910	-1.000315990	-1.79498804	0.098749576
## 35	-0.112361943	-0.050809000	-0.290628830	-0.95065004	-0.103931224
## 36	-0.033693633	0.087876078	-0.196851166	0.87745822	-0.370051034
## 37	-0.397157793	-0.644949394	0.055337604	-1.34012959	0.085192209
## 38	-0.158269310	-0.001519011	0.106194007	0.85183286	-0.434877770
## 39	-0.122675882	0.040707305	0.144450741	0.76748969	-0.307223407
## 40	-0.219513597	0.193257753	0.198486723	0.53970949	-0.542411972
## 41	-0.046364148	0.245773869	0.197967615	0.13668339	-0.566316956
## 42	-0.089987180	-0.077681624	0.493814197	-0.19458232	-0.579612118
## 43	0.018822516	0.717939605	0.310221677	1.16860265	-0.591289048
## 44	0.135589168	-0.515226951	-0.272474854	-0.75676063	0.902325980
## 45	-0.220490900	-0.650385957	-0.472323273	-0.72847748	1.063465368
## 46	-0.026859432	0.541790995	1.418290545	0.78321172	-0.141844547
## 47	-0.445135304	-0.541018301	1.211882282	-1.41956533	0.191097346
## 48	-0.316311823	-0.263784799	-0.034334336	0.05263363	0.308000014
## 49	0.487557071	-0.709778582	-0.988728667	-0.84364266	0.956975890
## 50	0.024184803	-0.227961513	-0.573787866	-1.25262040	-0.170649168
## 51	0.039479188	0.368055230	0.365461461	1.80108569	-0.379925929
## 52	0.532914116	-0.894564759	-0.672812549	-1.17941690	1.143305828

## 53	-0.344481149	-0.031106023	-0.320141427	0.87871838	-0.485227762
## 54	-0.104879520	0.369500073	0.365820085	0.91207373	0.025614155
## 55	-0.609039347	0.039302831	0.134679753	-1.28714774	0.147972768
## 56	-0.038494203	0.031696917	0.459567899	0.18011960	-0.278318261
## 57	0.313620266	-0.535838246	-0.876285268	-0.77589749	1.251456325
## 58	-0.449863483	0.338056056	-1.210506422	-0.29260715	-0.115631331
## 59	-0.456356441	0.337468607	0.211036667	1.88163669	-0.841244233
## 60	-0.206500373	-0.144933861	0.547915627	0.73608095	0.917742803
## 61	-0.381489521	0.392364649	0.296176027	-0.81586360	0.152664430
## 62	0.128055141	-0.201146968	-0.205527026	0.79590507	0.492930962
## 63	0.056843463	0.651301594	0.370037464	0.19148917	0.201802187
## 64	-0.156610146	-0.580549696	-0.593961681	-0.85013981	0.557620930
## 65	0.078356473	-0.479973690	-1.811618274	-0.51890446	0.247511856
## 66	0.121280702	0.265282956	1.179153758	-0.07234625	0.380771939
## 67	-0.173954330	-0.526775882	-0.285263315	-1.11414609	-0.071401719
## 68	0.017161105	-0.605741825	-1.781654968	-0.94351592	0.448440891
## 69	0.143634501	0.139875608	-0.348400070	0.87224237	-0.102845330
## 70	0.103843184	-0.130153497	0.443581238	1.74297689	-0.210083732
## 71	-0.174859757	0.476119511	1.318588626	0.10053132	-0.106020305
## 72	-0.007010976	0.272967428	-0.092772583	0.97115336	-0.142353881
## 73	0.221831177	0.054124359	-0.419872480	2.32504971	0.099511695
## 74	-0.132773840	0.324862452	-0.251470906	-0.75298197	-0.147582487
## 75	-0.143077905	0.380834927	0.926611624	1.69693357	-0.811172350
## 76	-0.103172599	0.694358064	0.143257104	0.87251325	0.052482148
## 77	-0.100112251	-0.651668981	-0.758468096	-1.54624798	1.000393494
## 78	0.061390973	-0.212941269	0.086082061	0.11772118	0.145732337
## 79	-0.113050342	-0.402388305	0.859027924	-1.12670848	0.165775921
## 80	0.001321182	0.761372215	1.820602333	0.18339463	0.806594163
## 81	0.834157084	1.281381851	-0.565272696	1.31132751	-0.690579093
## 82	0.177874386	0.625099153	-0.836960455	0.65504481	-0.355736196
## 83	-0.052400891	-0.696001669	-0.124032868	-1.09143862	0.155365951
## 84	-0.202416129	-0.360720755	-0.186675631	-0.46832830	0.246078709

## 85	-0.018129508	0.793584639	-1.990365153	2.23866002	0.100523285
## 86	0.139377894	-0.621200810	1.249872467	-1.34981658	0.068593839
## 87	-0.545086469	-0.163349255	1.180441576	-0.75896128	0.282921491
## 88	-0.114366777	0.113663973	0.105422047	-0.05474231	0.229299402
## 89	0.043512307	0.206758477	0.774624991	-0.50497432	0.108719583
## 90	0.307300981	0.367821243	1.856277712	0.36861770	0.031962150
## 91	-0.189654308	-0.244081520	-0.457974840	0.56254185	-0.186620916
## 92	0.024438545	-0.912668639	-1.067241400	-1.46589136	0.257266939
## 93	0.188048905	0.681395149	0.442577239	0.92558043	1.073785999
## 94	-0.347757728	-0.601482928	-0.798693146	-0.67902993	0.461633966
## 95	-0.210665114	0.152570830	-0.487881928	-0.27340996	-0.017469952
## 96	-0.182902518	-0.534207094	-0.533745850	0.30667371	0.075235884
## 97	0.165686836	0.290483525	1.869407286	2.03095689	-0.199111784
## 98	-0.504955175	0.366047332	0.331699038	0.09002317	0.563265041
## 99	-0.139585581	-0.351140582	0.046600880	0.95679305	1.170020486
## 100	0.007701777	0.190566485	1.190097056	0.46790836	-0.280352657
## 101	0.089119898	0.520174470	0.716562297	0.22880241	-0.054676786
## 102	-0.017564921	-0.017350308	2.128599931	0.55804769	0.946067739
## 103	0.110301210	0.144181318	2.211332268	-1.65236351	-0.214261843
## 104	0.077319338	-0.574509932	-0.427825337	0.37820615	0.547920338
## 105	-0.381226164	-0.111503456	0.412283466	-0.23399885	0.362196972
## 106	0.100918355	0.111968761	0.165379402	0.06091649	0.346610137
## 107	-0.181628050	-0.073764840	1.074693848	-1.16868210	-0.399674649
## 108	-0.181728630	-0.081796400	-0.606615544	0.16793973	0.471486001
## 109	-0.429486945	-0.152626900	-0.822565118	-1.36372868	0.211559371
## 110	-0.047774215	-0.540862106	0.710786248	0.22047835	0.312913695
## 111	0.036337762	-0.215515742	-0.496794246	0.49204925	-0.397063617
## 112	-0.145430326	-1.280363807	0.034472922	0.05496119	0.451653355
## 113	-0.011330045	-0.196562001	-0.295015719	0.61773570	0.224186633
## 114	-0.373750070	-0.461643472	0.755587480	-1.28120951	-0.122385866
## 115	-0.008127844	0.313055605	0.458460540	0.44181274	-0.052289198
## 116	-0.118584466	-0.239670263	-0.309730570	-0.07772867	0.132454520

## 117	-0.144455434	0.110807452	1.619198725	-0.19891462	0.324446902
## 118	-0.112872104	0.701701965	0.894688789	1.01318327	-0.507647129
## 119	0.671020832	-0.651632860	-0.321724749	-0.89627120	1.429412002
## 120	-0.030071654	0.156292682	0.929644574	-0.70050026	-0.256289219
## 121	-0.118626822	-0.166019183	-0.311301031	-1.11021053	0.060629159
## 122	-0.634059828	-0.279283502	-0.366159222	-0.23715846	0.014211528
## 123	-0.411677740	0.430829224	0.088086980	-0.47084991	-0.011327536
## 124	-0.033796027	-0.199458549	-0.229596068	0.27321393	0.225149891
## 125	-0.221434967	0.121684170	0.703293760	1.42816122	0.156635697
## 126	0.074930075	-0.455381496	0.366381179	-1.16909883	0.751750190
## 127	-0.153276795	0.548968481	0.908650876	0.85889025	0.194466494
## 128	-0.247945544	-0.377185053	-0.065616331	0.38820663	0.176236748
## 129	-0.351869882	-0.021838541	0.451919660	0.89914959	-0.627423555
## 130	-0.025091464	0.185570444	0.410751955	0.69627065	-0.336820021
## 131	-0.132944282	0.355677674	0.709098221	-0.16821595	-0.710909148
## 132	0.028695856	-0.195654236	0.115809193	0.25601903	0.209842673
## 133	-0.067037395	-0.443299230	-0.590719799	0.10785242	-0.299016955
## 134	-0.310354066	-0.161455579	-1.311170247	-0.30171858	-0.438134747
## 135	-0.060936624	-0.438699694	-1.056905313	-0.30787028	0.294596500
## 136	-0.278302373	-0.069352373	-0.408265544	-0.12453033	-0.023652781
## 137	-0.147595259	0.028802747	1.051962552	0.41973158	-0.101808073
## 138	0.001755589	0.268508581	-0.358246914	0.90434340	-0.196797717
## 139	-0.294616327	0.409367629	0.009049941	2.30567305	0.081499472
## 140	-0.172766208	0.479278837	0.348825071	1.07657188	0.103981706
## 141	-0.073722122	0.360704910	1.501505698	0.48641838	-0.094036487
## 142	0.008841347	-0.054103725	-0.144288964	0.65929059	-0.139813559
## 143	0.224872180	0.866777505	0.473399714	1.64788794	-0.299872885
## 144	-0.031329913	0.445466551	0.548967841	0.21245967	-0.221250962
## 145	0.105648906	0.310375668	-0.024942674	1.77471659	0.008061577
## 146	-0.189798859	0.079495827	0.165989786	0.61563675	-0.234152444
## 147	-0.105842525	0.127092742	0.814394727	0.14767873	-0.305328473
## 148	-0.096434898	0.984519156	-0.622621068	1.56107832	-0.208308466

## 149	-0.032318338	-0.027600383	-0.389050527	-1.00336458	0.212658670
## 150	0.019933090	0.305436090	0.482133269	-0.12362380	-0.052285192
## 151	-0.266107321	-0.258054010	0.175756380	-0.36109218	0.050060371
## 152	-0.003930558	0.823035747	0.584979187	-0.58577005	-0.227915188
## 153	-0.013717690	0.293456871	0.271292117	0.02353242	-0.008037327
## 154	-0.004363358	-0.264657778	-0.501127759	-0.24834836	0.491096811
## 155	-0.071944309	0.215920628	0.785652181	0.59899238	-0.207077142
## 156	-0.201040858	0.324993912	-0.370330730	-0.83920649	0.290590074
##	pp_Cyclin.E1	pp_Cyclin.E2	pp_DJ.1	pp_DUSP4	pp_Dvl3
## 1	-0.099972441	-0.3137521145	0.074835968	-0.274594240	-0.2082918265
## 2	-0.097777615	-0.2255617045	0.112622606	0.531081733	0.5539318365
## 3	0.340738005	-0.1888916860	0.455983934	-0.099097289	-0.2285395040
## 4	-0.354344736	-0.1191727928	0.613174769	0.737802227	-0.0536833887
## 5	-0.207756549	-0.3734365005	0.299679931	0.044554192	0.0029002595
## 6	1.152240079	-0.0688107170	-0.527750083	0.276557702	0.1063408000
## 7	-0.072292264	-0.2039749700	-0.123440059	-0.216312142	-0.2874860070
## 8	1.127923941	0.3431618595	-0.196607428	-0.116720063	0.1980790395
## 9	1.099472559	0.4529018475	-0.273126784	0.047443689	0.3662751445
## 10	-0.145915018	0.2671406567	-0.020813500	-0.043311256	0.3968199218
## 11	0.555767170	0.2305507550	0.314359613	0.348307336	-0.2221916750
## 12	0.399670191	0.0225001095	-0.091616840	-0.001374249	-0.3297625795
## 13	1.510123194	-0.0434237810	-0.075141517	-0.254728581	0.1312239920
## 14	-0.159640738	-0.0993743770	0.807181349	-0.388029086	0.1186987860
## 15	-0.376785719	0.0271615840	0.823888259	0.519653727	0.0104888630
## 16	-0.092818289	-0.1301160810	0.242121968	-0.415963020	0.3941467130
## 17	0.447669480	0.0249348915	0.409739939	0.129556764	-0.0551340055
## 18	0.148471016	0.0092485415	0.559245771	-0.724035429	0.1588516665
## 19	-0.185775373	-0.3065800065	0.681613658	1.096203012	0.1464086355
## 20	1.099288357	0.0956824000	-0.432627256	-0.300296291	0.0000000000
## 21	0.605858451	-0.0017001655	-0.404454270	0.209511839	-0.0199088855
## 22	2.380635805	0.2818507805	0.409729774	0.348492478	0.1310048335
## 23	-0.265353069	0.0897929480	0.425806971	1.088322848	-0.0706810880

## 24	0.254896473	0.0160545270	-0.392196513	-0.397135910	-0.0442121350
## 25	-0.284838761	-0.1241940665	-0.003522286	-0.030097359	-0.0267129635
## 26	-0.169115637	0.1242275570	0.346506066	-0.395063468	-0.0350941950
## 27	-0.377251796	-0.1260837660	0.036589738	-0.277680675	0.0417744930
## 28	-0.277815509	0.2019187040	-0.264700504	0.535900356	-0.0370897270
## 29	-0.378336126	0.3474741190	0.094854157	1.073424765	-0.6851832100
## 30	-0.351984460	0.0820152225	0.187145816	1.051851432	-0.3397698865
## 31	0.014760942	0.2855831190	0.523814803	-1.810031131	-1.1848843980
## 32	-0.117737995	0.1266563860	-0.039452663	-2.496489291	0.2581876120
## 33	-0.035205584	0.1830657005	0.959207577	-1.042483648	-0.5882719945
## 34	-0.454587866	-0.0251882065	0.276488988	-0.329105076	-0.1202803295
## 35	-0.307592747	0.1520519885	-0.367540290	-0.107583896	0.0147742635
## 36	1.374423107	0.0740908125	-0.073482591	-0.299798238	-0.3617207475
## 37	-0.034819086	0.0394089160	0.036670092	0.157967004	0.4345544740
## 38	0.198569806	0.3153024405	0.101763503	-0.086119327	0.1458103175
## 39	0.202971672	0.2405526605	0.187773441	-0.077983185	0.1385169575
## 40	1.395943064	0.2605332040	-0.287100105	-0.391606860	0.1625448330
## 41	0.509416994	-0.0802119495	-0.542723590	-0.502673839	-0.1983126875
## 42	-0.471022160	0.2040714310	-0.144227579	0.548065790	0.0772019340
## 43	1.139526349	0.1443226345	0.204567265	-0.142468825	0.3066508275
## 44	-0.156180220	0.2707668660	0.414658416	-1.182351053	-0.3629770500
## 45	0.001696330	0.7882252885	0.275140487	-1.172828991	-0.4756721065
## 46	-0.242561723	-0.0343198600	0.029062790	0.333822149	0.0580134500
## 47	-0.035801062	0.2486182275	0.687590792	0.381170628	0.0007055285
## 48	-0.167069462	0.3255968655	0.022684327	-2.264570336	0.3435975845
## 49	-0.294630179	0.2909979555	-0.415780571	-0.619010510	-0.8079919775
## 50	-0.342850180	-0.2399728350	0.448336008	0.784290460	0.1377642370
## 51	0.980915175	-0.1819141150	-0.220663165	-0.526454646	0.4961205670
## 52	-0.170218118	0.1920829805	-0.098729192	-0.964954613	-0.8195915655
## 53	0.282503860	0.3455810625	-0.431926135	0.027307575	0.2880738625
## 54	-0.077821036	0.1650471145	-0.406318183	-0.347017372	0.1504762775
## 55	-0.517814222	0.1980601585	0.116692523	-1.731499249	0.0361011105

## 56	-0.128164414	-0.0635093800	-0.555687426	-0.497643267	0.0227736230
## 57	-0.079440601	0.2701297440	-0.028597203	-0.226381523	-0.5431854620
## 58	-0.208805822	0.0268325560	0.425849798	-1.199320444	0.3154987910
## 59	2.201579691	0.6585009575	-0.392685779	-1.496175967	0.5403042145
## 60	0.269799595	0.4755388010	0.395255964	-1.807080943	-0.4958307220
## 61	-0.030162688	-0.5848264435	0.703068537	-0.215935983	-0.3821562865
## 62	-0.438004371	0.6030622615	-0.089069957	-0.769355541	-0.1915038315
## 63	0.155779747	0.2376602960	-0.048863326	-0.683894433	0.0491575450
## 64	-0.121663141	-0.2348127120	-0.093197424	-0.748796540	-0.3984509510
## 65	0.359733026	-0.0476447807	0.132677411	-1.114343214	-0.4549419997
## 66	-0.359243992	-0.0901067332	0.059662537	0.838014360	0.0957904397
## 67	-0.136790865	-0.3647506720	-0.194426083	-0.887385189	-0.5119145540
## 68	0.443635063	0.1211017577	0.534248552	-0.491854927	-0.6789996493
## 69	0.149323632	-0.1032120340	0.805883396	0.437182018	-0.2266811350
## 70	-0.046279987	0.2445612317	-0.115184478	-0.597634938	0.6363511567
## 71	0.273144549	0.3218948178	-0.107931897	-0.168208190	-0.0014129112
## 72	-0.063205113	0.0669906235	0.494551588	-0.233318812	-0.4988757775
## 73	1.445806565	-0.1260925313	-0.494124503	-0.797833886	0.2437398477
## 74	-0.186648666	0.0547507745	0.422032646	-0.596415673	-0.0601793175
## 75	1.291059476	0.2023008880	-0.363028114	1.346388510	0.0152182170
## 76	-0.481655911	0.0887593905	-0.047162459	0.146022992	-0.1102187885
## 77	0.095559485	0.2347306700	0.530344462	-2.117001473	-0.4620646480
## 78	0.003880179	-0.3628869265	-0.321708355	-0.516559387	0.4926745445
## 79	-0.153608120	-0.2389672590	0.512969381	0.477204723	0.0855301540
## 80	0.613924495	-0.1660781005	-0.557158522	-1.273730049	0.0072461845
## 81	1.069996778	-0.2038673165	0.067255869	0.354880187	0.5892324315
## 82	0.413714079	-0.5053161395	0.293895433	0.094938985	-0.0670502665
## 83	-0.380801821	-0.0274838295	0.471192760	0.427454716	-0.5630747825
## 84	-0.169071691	0.1860630688	-0.198838828	-0.419660504	0.1269988918
## 85	1.491326169	-0.2956452868	-0.310635425	-0.704839542	0.9145491892
## 86	0.005877598	0.1627195720	0.403920035	-0.233122311	-0.6601524410
## 87	-0.107106152	-0.5223918893	0.983048591	-1.158099521	-0.4049205013

## 88	0.449311888	-0.1327109855	-0.205862337	-0.322621435	0.0977228705
## 89	0.378500375	0.0792036365	-0.430778057	-0.620592074	-0.0509901145
## 90	-0.207328608	0.3265632447	0.983449842	-0.546814379	0.0326484358
## 91	-0.184282830	0.0000000000	-0.426247792	-0.400309818	0.2513114640
## 92	-0.279442927	-0.0758147940	-0.356471282	-0.228082501	0.1719792290
## 93	-0.577639461	0.0769369940	0.041873968	0.763258594	-0.1763795580
## 94	-0.120528445	0.6372140093	0.065312447	-0.423510690	-0.5272176917
## 95	-0.062287147	-0.2147967610	0.061931670	0.343328719	-0.0798180440
## 96	-0.204199568	0.1356381305	-0.190099395	0.278408373	0.0433354065
## 97	1.645594615	-0.1223850357	0.256624204	0.197424614	-0.4040258788
## 98	0.113908531	0.3215043180	0.539060004	-0.968406839	-0.6661866820
## 99	-0.339303362	0.4848696935	-0.176242196	0.040423223	0.1424313955
## 100	-0.100769000	-0.3862116035	0.285871478	-0.428792564	-0.0483343535
## 101	0.081942494	-0.0441563948	-0.251161663	1.198986394	-0.2503544577
## 102	-0.042767326	0.2034647183	0.149291872	2.203027661	0.0582028933
## 103	-0.378494746	-0.2228499810	0.832229126	0.075289978	-0.1394041700
## 104	-0.336781777	-0.0550146025	-0.073734901	-0.112505621	0.3946287365
## 105	0.008705578	0.0224070140	0.234081031	0.561408933	0.1082928020
## 106	-0.094562683	0.0908567932	-0.044749587	-0.365393553	0.2726592313
## 107	-0.263990879	-0.1911207035	0.234408117	1.102031898	0.3638361555
## 108	-0.096808893	0.0395622650	0.060410527	0.135877827	-0.0111988200
## 109	-0.158423776	0.2283403405	0.015420331	-2.143023777	-0.2567491105
## 110	-0.186852514	0.1064332115	-0.355789807	-0.293595844	-0.1625775275
## 111	1.341671751	0.4468584230	-0.317129128	0.133347706	0.4169315000
## 112	-0.156374914	-0.0302010090	-0.014584786	-0.220011660	-0.1381587830
## 113	0.044934937	0.2438016170	-0.251113492	-0.251210858	-0.1328253610
## 114	-0.264662896	0.1017726950	-0.123631712	-0.521854738	-0.2066742880
## 115	0.114987716	0.0156581400	-0.148302451	-0.054525966	0.1158983600
## 116	-0.342940201	-0.4408793743	0.173259108	0.211635543	0.2710092237
## 117	-0.386461946	-0.2045275098	0.177268124	0.688536518	-0.1029390837
## 118	0.453100777	-0.0684860305	-0.002711649	0.558736043	-0.2751186085
## 119	-0.051404499	1.1131600385	-0.146543484	-0.703197465	-0.6489554985

## 120	-0.223322595	-0.0410738380	0.318175451	2.364139000	0.3466271780
## 121	-0.054616412	-0.1066285787	-0.538665966	1.471822130	0.0843367623
## 122	-0.192881709	0.0325350960	0.053916531	0.089303513	-0.2429816680
## 123	-0.175322599	0.0496644150	-0.471619442	0.053928648	0.0959663300
## 124	0.017616620	-0.1628083705	0.109782674	0.297965724	-0.0729020425
## 125	0.117510967	0.1926970555	-0.382225435	1.468474779	0.2395101795
## 126	-0.098267895	-0.1606998490	0.074305542	-0.491662964	-0.3855882690
## 127	0.391494974	0.1806528965	-0.395978324	-0.352634915	0.0907212795
## 128	-0.108245312	-0.0938616770	-0.191021368	1.506005043	0.3417744890
## 129	0.250034353	0.5885577080	-0.425569123	-0.389078885	-0.0697089620
## 130	0.223984672	-0.0127067710	0.202103776	0.206032835	-0.3185085900
## 131	-0.301670893	-0.0547723450	0.609322456	-0.355278924	-0.0534063430
## 132	-0.528853241	0.2333041855	0.507196033	-0.075355312	-0.1228827265
## 133	-0.060076386	0.1083853210	0.259265557	0.000000000	0.0015195930
## 134	-0.378822965	-0.4346760678	0.715735104	-0.824959212	0.0049463292
## 135	-0.181141802	-0.1617990492	-0.117692666	0.565943264	0.2486238128
## 136	-0.023549144	-0.0004484447	0.365118133	0.381213967	0.1267818773
## 137	-0.021580856	0.2198801727	-0.102610057	0.959598987	0.2486211298
## 138	1.013080452	0.6199929000	-0.667114197	0.193643779	0.2890242980
## 139	-0.033666548	0.3368771800	-0.343087197	-0.610989033	0.0713796610
## 140	0.400129805	0.3456633928	-0.220571930	0.393147489	-0.1072436503
## 141	0.083515690	0.1087037075	-0.390649548	-0.472671159	0.0319734505
## 142	0.120506612	0.1055972207	-0.195221852	0.349966291	0.2927691208
## 143	0.452753627	0.2031437312	-0.294776615	-0.523168745	0.8834118533
## 144	-0.236319559	0.4387893175	-0.153894000	0.052311538	0.1338579055
## 145	1.320427383	0.0577622520	-0.310004992	-0.222934104	0.1093948550
## 146	-0.117943395	0.2089834745	0.033382018	-0.334612256	0.1373745405
## 147	-0.080219705	-0.0873328870	0.318016870	1.422516613	-0.1439621030
## 148	0.849793349	0.1481521015	0.029020368	-0.632329245	0.3599776235
## 149	-0.199070660	-0.2523318370	-0.077017766	1.146827555	0.3274852100
## 150	0.087905837	0.1177106263	1.043541855	0.428968285	0.1845684253
## 151	-0.294786872	-0.3353470820	0.566356792	0.682640025	-0.3088164500

## 152	-0.203463101	0.1931126940	-0.341282227	0.725214130	-0.0384312060
## 153	0.055996678	-0.2191071435	-0.015583860	1.053728739	-0.1475396535
## 154	0.704282931	-0.1675898377	-0.533547791	-0.432279078	0.2713233872
## 155	0.476897607	0.5156330932	-0.179561368	0.658783300	0.3311624062
## 156	-0.001527233	0.1151542930	-0.056813533	-1.420115654	-0.4544364920
##	pp_E.Cadherin	pp_EGFR	pp_EGFR.pY1068	pp_EGFR.pY1173	pp_ENY2
## 1	0.876640842	-0.085786143	0.329729918	-0.135189011	0.073839232
## 2	0.016042680	0.180898420	0.482519474	-0.080713464	0.074404721
## 3	0.267871280	0.032070346	-0.367908750	-0.057835994	0.105535339
## 4	0.615576660	-0.167163239	-0.350691099	0.174299985	-0.154929902
## 5	-0.127904277	-0.033477049	-0.022660595	-0.051685906	-0.071565154
## 6	0.153213152	0.810242431	0.456201780	-0.386087489	0.262547158
## 7	-0.029406947	0.642963241	0.397769908	0.407450990	-0.672765514
## 8	0.244630217	-0.051840728	0.019377104	-0.060858971	0.153065349
## 9	-0.560525635	0.029083403	-0.007226871	0.061347062	0.063823791
## 10	0.232857508	-0.243015422	-0.334130173	-0.037998138	-0.037524227
## 11	0.896989313	-0.327178331	-0.032917866	-0.136439665	0.476444019
## 12	-0.975455919	0.076829314	0.044215650	-0.109430688	-0.034573887
## 13	0.000000000	-0.026876666	-0.501175361	-0.170802097	-0.103727681
## 14	-0.345162415	-0.036391190	-0.039297473	0.161283732	0.010731786
## 15	1.129466080	-0.111085720	-0.488565215	-0.188928372	0.074703676
## 16	0.310023179	-0.293153907	-0.332979446	-0.065857809	-0.247497913
## 17	1.463831564	-0.161011385	0.185169720	0.129930988	0.619705176
## 18	1.125031011	-0.166816909	0.008842008	-0.051421144	-0.343106030
## 19	0.752343471	-0.115257969	-0.065770964	0.239494416	0.214387258
## 20	0.594345229	-0.264990147	-0.271760875	-0.188542896	0.125398272
## 21	-0.483299623	-0.140783167	1.210045371	-0.188350759	0.266762377
## 22	-0.329517840	0.266166988	-0.275858892	0.060589685	0.760805006
## 23	-0.120269204	2.837596774	2.709002313	0.530282055	0.125329780
## 24	-0.412198168	0.338815425	-0.018536024	0.081407027	-0.120724834
## 25	0.479585033	-0.064038385	0.248207018	-0.117482585	-0.279000442
## 26	1.398786901	-0.247671050	-0.050567426	-0.162009715	0.738838788

## 27	0.055986478	-0.222892613	0.089691254	-0.103088952	0.259399693
## 28	-0.277954894	1.943765979	1.774123513	0.030613212	0.521056633
## 29	-0.254799036	0.698383125	0.757454863	0.695940070	-0.749132509
## 30	-0.408741747	0.058522531	0.253536415	0.328988140	-0.478946612
## 31	-0.333466036	0.257338819	0.131700544	0.127477441	0.314304835
## 32	-0.565572356	0.000000000	0.297604590	-0.196118920	-0.976907930
## 33	-1.206011587	0.423003678	0.101699191	0.723512359	-0.719259211
## 34	-2.282226705	0.291528004	0.185862357	0.213820983	-0.151051012
## 35	0.529155608	-0.094703352	1.629784571	0.031361890	0.316893637
## 36	-0.464013269	0.234913258	0.242923044	-0.085051086	0.259417419
## 37	-0.067070396	-0.173746612	-0.537832204	-0.121878423	-0.890330024
## 38	0.402148556	-0.056839709	-0.374730282	-0.148611393	0.101997623
## 39	0.361986468	-0.103422018	-0.305583552	-0.089454905	0.169455357
## 40	-0.694128873	0.323196495	-0.266131699	-0.163888817	-0.467840747
## 41	0.110729713	-0.119748243	-0.153826502	-0.202281254	0.187264741
## 42	0.221989171	-0.274892372	3.562739227	-0.152875301	0.407289087
## 43	0.029043837	0.340960092	-0.329574799	-0.137437252	0.373873172
## 44	-0.277163073	0.242867911	0.212598697	0.785203119	-0.413006622
## 45	-2.116952426	0.553666792	0.065622162	0.560920516	-0.686787204
## 46	0.676432022	-0.134455951	0.240479388	-0.075380890	-0.045747717
## 47	-3.159136484	0.053359760	0.101318918	0.311191357	-1.031913602
## 48	0.158925066	0.455331480	-0.019113941	0.427577192	-0.172700992
## 49	-1.179779644	0.607586747	0.020470374	0.784678954	-1.227914790
## 50	-3.005924859	-0.198903736	-0.310037367	-0.036529337	-0.619777003
## 51	0.110370493	0.833088603	0.104981315	-0.016003515	0.207149164
## 52	-0.635878758	0.894471309	0.062865809	1.145276058	-1.264945375
## 53	0.210086621	0.175176921	2.576394338	-0.279686539	0.068639923
## 54	0.227728910	-0.387240372	-0.169651762	-0.198622077	0.607942074
## 55	0.841823299	0.017174385	-0.268354817	0.201931871	-0.817367314
## 56	0.065918897	0.114693886	0.558521243	0.031762179	-0.244406652
## 57	-1.842376036	0.364076295	1.074302612	0.828470372	-1.285939410
## 58	-2.776085294	0.040617965	0.069911881	0.109346833	-1.488679293

## 59	-0.096562884	0.409767006	-0.469514860	-0.208284769	0.125941867
## 60	0.938556198	0.123929043	-0.298472635	0.498876918	0.137068158
## 61	-2.121374419	0.133439941	-0.096581509	0.153691333	0.188071342
## 62	0.447777928	0.098276731	-0.403101761	-0.005027102	0.438281438
## 63	-0.605066683	-0.152674301	-0.199595407	-0.117377448	0.150453119
## 64	-0.597683672	0.515534662	0.202276401	0.885725700	-0.787951534
## 65	-1.638831973	0.482158623	0.830268507	0.355742538	-0.744253396
## 66	1.446100074	0.107611425	-0.670167393	-0.125093557	-0.229239584
## 67	-0.162579384	0.537224058	0.279859807	2.023959378	-0.914585020
## 68	-4.192838867	0.514564752	0.551785087	0.789207600	-0.875294643
## 69	-2.165727713	0.038395784	-0.291402925	0.088272730	0.115565145
## 70	0.536023333	-0.002052548	-0.426389046	-0.087232443	0.655973581
## 71	0.968564164	-0.002193960	-0.439795031	0.213011181	0.486588091
## 72	-2.964878871	-0.261199633	-0.293659446	0.063592299	0.793038402
## 73	-0.522370018	0.689883558	0.671052799	0.004393483	0.184964931
## 74	0.114652685	0.058538688	0.348313763	0.022499066	-0.371354194
## 75	0.000000000	0.706673998	0.354345666	-0.174444564	0.142215657
## 76	0.246603628	-0.305644994	-0.167805367	-0.306816425	0.108205569
## 77	0.252768870	0.255598801	0.145909767	0.587898622	-0.514987138
## 78	-0.220973309	0.096137651	0.826624304	0.001852579	0.046632028
## 79	0.356171066	-0.055190506	0.275440171	-0.061117226	-0.348046113
## 80	0.072493766	0.584127512	0.302681025	0.125787785	-0.834160342
## 81	0.564935692	0.190536379	0.180931396	-1.035128036	-0.050897944
## 82	0.122290459	0.340489492	0.150903875	-0.598457265	-0.076547298
## 83	-0.499220122	0.095534815	0.810155052	0.704038561	-0.253944520
## 84	-0.449961457	-0.165267761	0.150725593	0.093676366	-0.338418384
## 85	0.104549743	0.274009480	-0.097258551	-0.223175228	0.012760627
## 86	0.650734037	-0.037201472	0.381186678	0.185640956	-0.148941062
## 87	0.525507855	0.268529681	0.712857530	0.222197882	0.418119350
## 88	-0.020719420	0.013779588	-0.043423888	-0.115080217	0.151688215
## 89	0.940703448	-0.046063768	-0.127515958	-0.091359875	0.085491305
## 90	0.672575312	-0.459080127	-0.192214087	-0.138059361	0.226477147

## 91	-0.436010839	-0.020996084	-0.080621471	-0.154669104	0.386811652
## 92	-0.835727529	0.083342345	0.958310859	0.161884215	-0.159123191
## 93	-0.549481906	-0.085129214	0.159660115	0.276650385	0.096572092
## 94	-1.482898254	0.367852519	0.547550706	0.448087492	-0.706194624
## 95	-2.431018533	0.047212811	0.197981701	0.068914677	0.024658941
## 96	-0.002182366	-0.215590190	4.944464781	-0.327881714	-0.212832029
## 97	-0.533041385	-0.241680915	0.257371239	-0.238003626	1.138298992
## 98	0.400082805	-0.250276900	0.917327599	-0.340725497	-0.195566068
## 99	2.009857064	-0.353272141	-0.195669488	-0.210229206	0.256526787
## 100	0.875112905	-0.333774617	-0.512511062	-0.149691748	-0.077977951
## 101	0.667511635	-0.480161875	0.069390319	-0.222240172	0.217854945
## 102	0.892536986	-0.331225679	-0.200243818	-0.106386007	-0.005620757
## 103	1.222592953	-0.284327119	0.280938650	-0.300545418	-0.069863045
## 104	-0.711121614	0.140265981	0.356339543	0.261337978	-0.544974897
## 105	0.855662222	-0.210279996	0.287745537	-0.218687127	-0.090023386
## 106	0.134616804	-0.168175571	-0.122749853	0.037609470	0.250613719
## 107	0.335328627	-0.268379313	0.183415747	-0.112312840	-0.213031805
## 108	-0.321908455	-0.200675071	0.183045467	-0.239898570	-0.434531762
## 109	-0.962957431	0.446951579	-0.216627420	0.295611621	-0.657869791
## 110	0.724744105	0.107932337	4.272989152	-0.071165108	0.516901264
## 111	-0.327310837	-0.044785484	-0.085849033	-0.016262221	0.074326431
## 112	0.145193673	0.272981450	0.549563178	0.074390709	-0.102865232
## 113	0.021699201	0.030864383	-0.098742793	-0.076057068	0.603086818
## 114	0.216321035	-0.007877975	0.363809806	-0.165104244	-0.095030564
## 115	-0.226394734	0.328791438	2.055110868	0.077446970	-0.206845630
## 116	-2.024946847	-0.336860183	0.355425602	-0.253083678	-0.333192523
## 117	1.003603303	-0.250711026	0.004807044	0.007569953	0.107337868
## 118	0.443200859	-0.108111925	-0.403291497	-0.141971908	0.030775182
## 119	-1.344813702	0.497231665	0.183074554	0.915840967	-1.010370631
## 120	1.147016297	-0.265421558	-0.033720360	0.007301913	-0.064161566
## 121	1.014049618	-0.188172726	0.247440239	-0.099805652	0.089669752
## 122	-0.339495506	0.162369528	0.653257581	-0.257022225	-0.519967942

## 123	0.586467508	-0.187828278	-0.208118117	-0.196013645	-0.473031449
## 124	-2.118617541	0.146801743	2.501468679	0.243938074	-0.012296977
## 125	-0.419228877	0.113280699	1.624664905	-0.174889501	0.404631341
## 126	-0.181252447	0.209041716	0.211721140	0.297554329	-0.316683958
## 127	0.392508586	-0.279375096	-0.260594398	-0.212532151	0.663715467
## 128	-0.259365787	-0.225586052	0.894258119	-0.207932649	-0.142828132
## 129	-3.741649655	0.051108546	0.341297560	-0.197825598	-0.048671739
## 130	-3.028302415	-0.009724769	0.184312522	-0.220609683	0.009542700
## 131	-3.458903898	-0.169697753	0.338592051	-0.128501409	0.026372730
## 132	-2.451570289	0.219923352	0.519047828	0.144777793	-0.407937719
## 133	-0.691330986	0.121027603	1.648768022	-0.084221818	-0.096587139
## 134	-0.183091754	0.083498928	1.145202044	-0.073371397	-0.724133691
## 135	-0.104350170	0.087253779	0.068253373	0.321663942	-0.370548544
## 136	-0.307481029	-0.063344621	-0.024857726	-0.168311739	0.075531679
## 137	0.439622749	-0.123337223	-0.103691237	-0.075342094	0.555447105
## 138	0.107663632	0.087270588	-0.082178262	-0.014690211	0.972489530
## 139	0.283711301	-0.162117602	-0.286065780	-0.010142666	0.538450618
## 140	0.346098396	-0.059503054	-0.315263713	0.088886546	0.412715948
## 141	1.065879541	0.844862073	0.210807088	-0.040858436	0.286176193
## 142	-0.343827227	-0.232581810	-0.171832950	-0.069762014	-0.291715490
## 143	0.564329340	0.028985395	0.071978617	0.106621978	0.346754429
## 144	-0.122846485	-0.287544088	-0.206262122	0.184698280	0.280617823
## 145	-0.098893734	-0.083409526	-0.140072658	0.042152966	0.285931488
## 146	-0.066972660	-0.201371542	-0.524142274	-0.132490873	0.403328650
## 147	0.699405257	-0.331216183	-0.421434148	-0.149555416	0.148893782
## 148	-0.251679726	0.430722483	-0.053874907	0.084796686	-0.052978252
## 149	0.299521231	-0.063090297	-0.004468900	0.076857819	-0.071825196
## 150	0.892498963	0.470443334	0.183531791	0.028886669	0.041791275
## 151	-1.224570194	0.055452978	0.193284870	0.170589602	-0.122928313
## 152	0.519366817	-0.145772794	1.015865468	-0.052042303	0.622335825
## 153	0.464022524	-0.281923868	2.507253236	-0.200470528	0.379196898
## 154	-0.796338493	0.107628376	-0.009535185	0.259995239	-0.225248839

## 155	0.377911103	-0.210854248	-0.123598215	0.054070199	0.375433068
## 156	-0.687073621	0.218205091	-0.326312267	0.384723943	-0.487943366
##	pp_EPPK1	pp_ER.alpha.pS118	pp_ERCC1	pp_ERCC5	pp_ERK2
## 1	6.278663e-01	-0.069964306	-0.2234606040	-0.008217473	-0.053461296
## 2	1.088254e+00	-0.415933842	-0.0391844505	-0.096913166	0.177452482
## 3	1.312675e+00	0.591029315	-0.1256849835	-0.298836747	0.344380598
## 4	7.611068e-02	1.198189975	0.3156214458	-0.224407203	0.459020659
## 5	2.297116e+00	-0.511966240	-0.0683817260	0.103777539	0.003335467
## 6	1.046179e+00	-0.253405286	0.0321984400	-0.290146625	0.168519600
## 7	-1.208263e+00	-0.384777591	0.0824790775	-0.791139171	-0.313369551
## 8	4.431523e-01	-0.165616279	-0.0531877230	0.250749430	-0.032335328
## 9	-2.970970e+00	-0.009769749	0.1373393470	-0.213346681	-0.082900319
## 10	1.409293e+00	-0.061656454	-0.1367620117	0.148456910	-0.064253875
## 11	5.619162e-01	0.802754390	-0.1115746575	0.208734030	-0.152344088
## 12	-1.539333e+00	-0.485138998	-0.0820433195	0.076788641	0.212991628
## 13	-2.188868e+00	-0.293458011	0.1310078450	-0.283917841	0.165198705
## 14	1.197101e+00	-0.291303159	0.1065337730	-0.195690335	0.322540253
## 15	-5.801327e-01	0.430265084	0.0956994100	0.041721628	-0.031556445
## 16	2.882476e+00	1.228594866	-0.0494849010	-0.425503974	0.549772925
## 17	-5.350136e-01	-0.195991102	0.1788279885	-0.260792150	0.954703444
## 18	-2.450157e-01	0.383311008	0.0299850655	0.051995832	0.388344411
## 19	2.286709e+00	0.138088674	0.0159112825	-0.075312675	0.529629046
## 20	2.400945e+00	1.936906371	-0.1773684060	-0.103995255	-0.300954098
## 21	8.696692e-01	-0.303396084	0.0654906435	-0.286198208	0.551054208
## 22	-9.237024e-01	-0.258369097	0.0300671255	-0.091346224	-1.209877759
## 23	1.471015e-01	-0.409726014	0.0349716750	-0.343015165	-0.489186887
## 24	8.868758e-02	-0.596842488	0.0540420315	-0.275040261	0.031040749
## 25	6.311201e-01	0.256333674	-0.0529434895	-0.265088442	0.085600493
## 26	-8.635771e-01	0.868699574	-0.0178741580	0.066058016	-0.111562428
## 27	5.515438e-01	0.468964358	0.1048080350	-0.069899977	1.080621501
## 28	-7.291724e-01	-0.387140071	-0.0100026360	0.009989041	0.244447659
## 29	-6.985944e-01	-0.139110143	0.1627615330	-0.131195417	-0.407341595

## 30	-1.510878e-01	-0.336879845	0.2940098625	0.133280568	0.223799098
## 31	-1.135641e+00	-0.514891396	-0.1936547660	0.364052190	-0.605139816
## 32	4.238500e-01	-0.008781783	-0.5899108590	0.090957731	0.464336781
## 33	-1.281879e+00	-0.334034699	-0.5072756025	-0.607121029	0.058671398
## 34	-1.278645e+00	-0.329974168	-0.0190709855	0.007225675	0.423927336
## 35	2.592738e+00	0.257556660	-0.1214042895	-0.014543438	0.561221679
## 36	-2.881281e+00	-0.720962990	-0.3446516055	0.293508974	-1.091622892
## 37	1.530257e+00	0.289429895	0.0307944650	0.291035068	0.393562779
## 38	1.699296e-01	-0.107561005	-0.1580873765	-0.318464666	-0.116366421
## 39	1.798478e+00	-0.076136240	-0.1811119635	-0.303416563	0.299784226
## 40	-2.650713e+00	-0.715190124	0.2598453710	0.074284584	0.272496985
## 41	2.074444e+00	-0.315211678	0.2043065045	-0.229855738	0.573001183
## 42	-7.174137e-01	-0.226683097	0.1424711780	-0.277535144	0.561442868
## 43	8.819225e-01	-0.046229361	0.0948880995	-0.167862615	-0.076993960
## 44	-1.277798e+00	-0.090252210	-0.0857514550	-0.324590820	-0.474494640
## 45	-1.370414e+00	-0.168547499	-0.1129606965	-0.567873254	-0.059839791
## 46	3.216105e+00	0.656403961	0.0101434400	-0.262873046	0.207102647
## 47	1.349251e+00	-0.531512425	-0.3725773885	0.079466524	0.315525228
## 48	1.265577e+00	-0.443209242	-0.5021780705	-0.615261940	-0.371981984
## 49	-1.493004e+00	0.122658934	0.1007273045	-0.366077469	-0.919594208
## 50	8.203637e-02	2.080550614	-0.0419687550	0.116615618	-0.119064123
## 51	-1.433171e+00	-0.061677328	0.2093367670	-0.273230433	0.000000000
## 52	-2.156818e+00	0.080745020	0.1717235695	-0.688797915	-0.472635311
## 53	1.046877e+00	0.045861456	-0.2800325725	0.030162986	-0.247797604
## 54	2.010970e+00	0.671140303	0.1119157905	-0.185206115	0.326777794
## 55	-1.454176e+00	0.694486356	-0.4327948915	0.819879581	0.872709538
## 56	-5.436040e-01	-0.229798840	-0.0320999360	-0.174125075	0.185917697
## 57	-2.002178e+00	-0.100048890	-0.0748486840	-0.202365298	-0.501224219
## 58	1.187338e+00	-0.234897991	-0.6332197440	-0.592563141	0.302600920
## 59	1.268643e-01	-0.493446449	-0.3301219805	0.192940122	0.265994252
## 60	1.989102e+00	-0.287802259	-0.2858634500	-1.363159704	-0.470660121
## 61	-6.458006e-01	-0.279678474	0.1726129070	-0.361954286	-0.075194389

## 62	-1.911524e+00	1.044770471	0.3138092740	-0.348529273	0.115829342
## 63	4.479557e-01	0.228128555	0.1698906625	-0.085643879	0.384606889
## 64	-1.275637e+00	-0.328011716	0.8328632255	-0.902476719	-0.535938227
## 65	-2.051013e+00	-0.721847245	0.1319558248	0.068347853	-0.108682611
## 66	3.860749e-01	0.590835545	0.2179993413	0.126159931	0.460289215
## 67	-8.245716e-01	-0.815698014	0.3778381275	-0.548461189	0.752391489
## 68	-3.183803e+00	-0.767654738	-0.0888566577	-0.374498558	-0.404235246
## 69	9.553184e-02	-0.335580602	-0.2361937795	0.196363164	0.001255258
## 70	-4.818625e-05	0.291210107	-0.0878839418	-0.232997686	-0.031537253
## 71	3.913834e-01	0.003711898	0.3486502062	0.048417110	-0.037680113
## 72	4.463677e-01	-0.320627866	-0.0454013960	0.013331507	-0.412335177
## 73	1.421079e-01	-0.793232100	-0.1560630608	-0.322198491	0.111749014
## 74	-7.191171e-01	1.032915680	-0.0903015985	0.111085325	0.470686163
## 75	4.034219e-01	-0.679487750	0.0052573270	-0.028683263	-0.444732897
## 76	-5.669777e-01	1.462937566	-0.0971442055	-0.165688168	-0.243706530
## 77	-1.607709e+00	-0.263037999	-0.0456585480	-0.296369700	-0.289977708
## 78	-9.502001e-01	-0.305297736	0.0015251425	-0.127452233	-0.207184586
## 79	-3.557819e-01	0.142414722	0.1078975630	0.047147279	-0.480891683
## 80	-8.919344e-01	-0.547586207	0.1028923070	-0.391532465	-0.436982869
## 81	9.815058e-01	-0.480242750	0.3251022490	0.702557172	-0.404361537
## 82	4.740712e-01	-0.343101901	-0.1706195690	0.046274474	-0.185845446
## 83	-1.771793e-01	-0.308651593	0.1278866190	0.229663344	-0.148049452
## 84	1.245430e+00	0.753576218	0.1542879443	0.094422208	-0.053848587
## 85	1.466587e+00	-0.784371867	-0.3212054422	-0.258324297	0.184147375
## 86	-2.085214e+00	-0.278481478	0.1697759600	0.146514478	-0.321463538
## 87	-1.068344e+00	-0.352918779	-0.0446406878	0.479366860	-0.401825363
## 88	1.384981e+00	0.797189172	-0.1308279235	0.182680790	-0.563225828
## 89	-1.046293e+00	1.268172153	-0.0594546815	0.099628517	-0.454760365
## 90	-1.197728e+00	0.696367345	0.0178348413	0.156653028	-0.171298129
## 91	1.363489e+00	-0.340337615	0.0979953220	-0.069207264	-0.056280395
## 92	-7.874710e-01	-0.505953645	0.1679959070	-0.070433599	0.156976970
## 93	-6.323446e-01	-0.045855948	0.0867262140	-0.192045714	0.371825909

## 94	-2.332747e+00	-0.075165434	0.2142399658	-0.344454875	-1.248098709
## 95	6.799393e-01	-0.496550975	0.0724743115	0.060912068	-0.180945043
## 96	1.195959e+00	-0.252676018	-0.0376100905	0.057498552	0.561590047
## 97	-1.089738e+00	-0.586592753	-0.1960332972	0.346514023	-1.041355689
## 98	-8.765972e-01	-0.243560964	-0.2938545110	0.353907121	-0.158489237
## 99	2.791639e-01	0.132924088	-0.0034812435	-0.213213297	0.178847669
## 100	-1.244025e-01	0.891333957	-0.0691904525	-0.144813003	0.450435633
## 101	-1.195017e+00	-0.294125783	-0.1002320893	0.219546650	-0.162727635
## 102	3.348631e-01	1.262661802	-0.1521214043	0.217279983	-0.125725369
## 103	-5.161505e-01	2.243143890	0.1702478530	0.091057474	0.470395958
## 104	-2.682369e-01	-0.434602416	0.2440079935	-0.040192245	0.153952200
## 105	4.442544e-03	0.305662106	-0.3542135270	-0.135032665	-0.499759438
## 106	2.076303e+00	1.160359718	-0.1559646192	-0.074457937	-0.217232854
## 107	1.579613e+00	0.610439720	0.0005737345	0.010899881	0.198395832
## 108	-6.353303e-01	0.032958795	-0.3777550290	-0.052644504	-0.520849324
## 109	-4.998683e-01	0.157595679	-0.5061625655	0.047430057	-0.279183103
## 110	-1.272399e+00	-0.616559510	-0.0423889215	0.090987569	-0.162571688
## 111	-1.751069e+00	-0.319658472	-0.0077924230	-0.130462091	0.574800564
## 112	-1.037238e+00	-0.392093937	0.1340367560	0.009227593	-0.709421342
## 113	-5.579417e-01	-0.683498006	0.0009553770	0.069622931	-0.591876846
## 114	1.003188e+00	0.530218860	-0.0608502760	0.321345225	0.511730100
## 115	8.945212e-01	-0.482021198	-0.2601013915	0.218527016	-0.411853220
## 116	1.090006e+00	-0.095709242	-0.2018091318	0.130363004	-0.125966952
## 117	-2.824320e-01	0.109781786	-0.2625741632	0.219354686	-0.001836080
## 118	-3.290952e-01	-0.582015196	0.0876939045	-0.039805261	0.829552511
## 119	-2.008048e+00	0.198570225	0.1223687145	-0.301212660	-1.251786266
## 120	-4.862853e-01	0.866857460	-0.0328531505	-0.039476038	0.271317553
## 121	-4.255977e-01	-0.163490054	-0.1023164822	0.362700929	-0.013737138
## 122	2.381507e+00	0.743943956	0.0382937540	-0.154805634	-0.126286647
## 123	1.154172e+00	0.973465586	-0.1124476980	0.419936957	-0.376238381
## 124	-2.655329e+00	-0.413296899	-0.0478177805	-0.183317041	0.398428883
## 125	-1.552338e+00	-0.048169946	0.1609709075	-0.224446412	0.494644929

## 126	-1.062381e+00	0.064133972	0.3609773950	-0.274645237	-0.092246478
## 127	-2.000617e-01	1.128721143	0.0874344975	-0.076019530	0.053292654
## 128	1.569916e+00	-0.021681430	-0.0741752760	-0.074728893	-0.328959481
## 129	8.930807e-02	0.138117149	-0.3164420520	0.217972571	0.103948728
## 130	7.756769e-01	-0.387901703	-0.0427885760	-0.060135634	0.373686102
## 131	1.079761e+00	-0.131905824	0.0380198110	0.331921639	0.530376727
## 132	-2.094205e+00	0.544302041	0.1786215615	-0.010885080	-1.519911256
## 133	2.657357e-01	-0.514984008	-0.0635141290	-0.055042538	0.247054389
## 134	1.185046e+00	-0.299772345	-0.3048790263	0.716498676	0.432656382
## 135	4.195543e-01	-0.230362420	-0.0352337277	-0.092491394	0.035195141
## 136	-1.707828e+00	-0.158335081	-0.0275584822	-0.607139069	-0.195617452
## 137	3.274767e-01	0.031813117	-0.0991655688	-0.299566337	-0.263979610
## 138	-2.611457e-01	-0.067552892	-0.0433800905	0.412140481	-0.244955011
## 139	1.860726e+00	-0.050090117	-0.0532204685	-0.577625003	-0.148183506
## 140	-6.110782e-01	0.129298967	-0.0736629547	-0.201397904	-0.022060506
## 141	1.044564e+00	-0.360005833	-0.0913841280	-0.533452163	0.303345523
## 142	1.918296e+00	0.941042838	-0.1806047457	0.057334322	-0.024816597
## 143	1.128056e+00	-0.232009524	-0.0966144562	0.036466341	-0.047075776
## 144	2.457385e+00	0.449482439	-0.1710704590	0.074062861	-0.163807084
## 145	-3.921762e-01	-0.451986421	-0.0999653835	0.153877845	-0.129063373
## 146	4.838882e-01	0.255321346	0.0755076425	-0.009099424	-0.250486993
## 147	1.428274e+00	1.103106849	-0.0484563570	-0.106406775	-0.123736151
## 148	-1.260335e+00	-0.288803947	-0.0614678420	0.026818196	-0.194736905
## 149	1.013496e-02	0.421081084	-0.0197100395	-0.311391502	0.420408014
## 150	3.169926e+00	-0.049634658	-0.0776371982	-0.617412846	-0.106718673
## 151	-8.404580e-01	-0.127748362	0.0401320525	0.132381210	-0.093742666
## 152	5.357445e-01	0.257820603	0.0141514835	0.347756950	-0.060970852
## 153	1.356472e+00	-0.453959349	-0.1087629670	0.122719823	0.021311173
## 154	-9.883083e-01	-0.557235622	0.0229570628	0.340722728	-0.395831500
## 155	3.173254e-01	0.631907189	-0.1492583333	0.188129084	-0.321617733
## 156	-8.797825e-02	-0.346119577	-0.1651459010	-0.093041118	-0.367513537
##	pp_ETS.1	pp_FASN	pp_FOX03a	pp_FOX03a.pS318.S321	

## 1	-0.1018343075	-0.179540412	0.0890420675	0.035052137
## 2	0.0000000000	3.154880810	0.1387315235	0.190608728
## 3	-0.1294244570	0.563108541	0.1319674670	0.011983835
## 4	0.3434239263	0.665402864	-0.0506539727	0.141994057
## 5	-0.2171221645	-0.840050141	0.1148775435	0.124483022
## 6	-0.0611405365	-0.041260926	-0.1529314950	0.200132897
## 7	0.0707256460	-1.074664709	0.2272504240	0.231114853
## 8	-0.0051830905	-1.150178576	0.1381218695	0.233532321
## 9	-0.1440872475	-1.043001403	-0.1721167945	0.025307089
## 10	-0.4423743163	-0.175641668	0.4772486898	0.016817542
## 11	-0.2536195160	2.669421659	-0.0298832900	0.054564603
## 12	0.4203651060	-0.506210290	0.0389248105	-0.008395840
## 13	0.0190224585	-1.756615554	-0.1849120710	0.231299744
## 14	-0.0686116555	0.055953452	0.1233155990	0.307105213
## 15	-0.0333431985	-0.253756428	0.2620606940	-0.054029042
## 16	-0.2028898455	0.708114394	0.1136584270	0.061632790
## 17	-0.1555812120	-0.427513076	0.1754723445	-0.129137434
## 18	0.0561503920	0.007490382	-0.2746004335	-0.149073680
## 19	-0.2705200100	-0.173652751	0.1611640235	0.068549949
## 20	0.0376969265	1.412011590	0.2179879910	-0.069289110
## 21	-0.0116183580	2.135351754	0.1360308285	0.147966894
## 22	0.1221935360	-0.427700079	0.2396636125	0.027875556
## 23	-0.2596321295	-0.671270404	0.1926031770	-0.194039092
## 24	0.0794823300	-0.722974713	0.0683434770	-0.220542081
## 25	0.0000000000	1.536398697	-0.0852639945	0.094000463
## 26	0.0220335935	0.127796929	-0.1115264920	0.000000000
## 27	0.0463475095	2.632352183	-0.1775915180	0.187689930
## 28	0.1848885065	0.090071758	0.3028035300	-0.247917523
## 29	0.5396284565	-1.023171739	0.3645747850	-0.074909448
## 30	0.3864034020	-0.584317889	0.0569125855	-0.140140141
## 31	0.5716284795	-0.679480730	0.2185635280	-0.115896881
## 32	0.2739902905	-0.492692905	-0.2952238100	0.099909483

## 33	0.4998319630	-0.254629388	0.4040699245	-0.038842120
## 34	0.3998889330	0.929615998	0.1599323825	-0.021586499
## 35	0.0673332760	1.803522497	0.3517382685	0.059346104
## 36	0.4022734240	-1.868000448	0.2207520165	-0.183366935
## 37	0.0084116775	0.552225572	-0.1296821230	-0.204104618
## 38	-0.0034678180	1.234146058	0.0106042795	0.051826811
## 39	0.0219501130	1.551968417	0.0823612685	0.096422077
## 40	0.4947688015	-1.680879785	-0.1731134490	0.084949050
## 41	-0.1495090140	0.883539150	-0.0785583935	0.443897653
## 42	0.0130545105	3.095940391	-0.2786787750	0.067647800
## 43	0.0452098120	-0.130690812	0.0314148435	0.082063461
## 44	0.4403092465	1.093600166	0.4227426620	0.149572604
## 45	0.6874913430	-0.174101010	0.5014322785	0.125859520
## 46	-0.1253859315	2.320207428	0.1364673390	0.015693395
## 47	0.0897093200	-0.425389884	0.1050429295	0.178017879
## 48	0.1253362300	-0.254895987	0.0941018955	0.112055615
## 49	0.4528903100	-0.476331805	0.4798476125	0.010034550
## 50	-0.2597428345	-1.008604104	0.0019509280	0.131513594
## 51	-0.2989301615	-0.729018941	0.2096474820	0.209552663
## 52	0.4244493570	-2.095600509	0.8836209945	0.445675767
## 53	0.0885027390	0.731269146	0.0521521855	-0.132020879
## 54	-0.1239185740	1.623884537	0.0318619985	0.060497256
## 55	-0.0879970650	-0.428277845	-0.0780469385	0.007120711
## 56	0.1691952755	-1.366620998	-0.0240431130	0.406578004
## 57	0.5190810405	-0.796237524	0.4964903070	-0.073211800
## 58	0.3885965485	-0.765622851	0.1546939200	0.161608364
## 59	0.2700820760	-1.058921136	-0.2226236965	0.119084147
## 60	0.1835350105	2.288816148	0.2340692520	-0.247276242
## 61	0.1253697235	-0.562716679	-0.2275416175	0.067236315
## 62	0.8415090435	2.266871993	0.0887098795	-0.063910448
## 63	0.8813959960	-0.024050162	-0.2498992120	-0.075195638
## 64	1.1862950010	-2.288213248	0.1648732800	0.305096384

## 65	0.7573210287	-2.715878300	0.1152859407	0.207059314
## 66	0.9250084217	0.471728928	-0.5561719843	0.835011290
## 67	0.7128976730	-0.589700351	-0.1253463030	-0.072325118
## 68	0.4814434862	-1.147097281	0.0533111863	0.467147142
## 69	-0.1011558245	-0.624224863	-0.0879339615	0.168889885
## 70	-0.2824223658	0.319004350	-0.1012380778	0.047883351
## 71	0.6028234083	-0.472780302	-0.0092372047	-0.002716084
## 72	-0.0812440160	1.784696629	0.1155324070	-0.209044012
## 73	-0.4070240247	-2.002560171	-0.1990957728	0.098339604
## 74	0.2422972100	0.411073195	-0.1753993955	-0.061000463
## 75	0.0007853065	-0.073799049	-0.3450464010	-0.143396071
## 76	-0.1046292220	-0.109001372	-0.1308381325	0.057900494
## 77	0.1229606035	-1.145285914	0.2695155390	-0.063650102
## 78	-0.1326002430	-0.972622386	-0.0227343735	-0.086051105
## 79	-0.0906508955	-0.211374119	-0.0062769270	-0.000562295
## 80	0.6492534185	-0.321761373	-0.0686610555	-0.083658047
## 81	-0.5036496160	0.162271077	1.2421368920	0.030166678
## 82	0.5816482830	0.983593526	0.5858541940	-0.412555277
## 83	0.2254393920	-1.372304988	0.0675424310	-0.082960526
## 84	0.4320692912	0.123999910	-0.1640131067	0.150831840
## 85	-0.2885131752	-1.945953156	-0.2132763112	0.179553314
## 86	0.3451401855	-0.959961494	0.1085503020	-0.179404047
## 87	-0.3448398313	0.858971543	0.1274564777	-0.147958662
## 88	0.0855377950	-0.431419004	-0.0046899695	-0.180589841
## 89	-0.0285208540	-0.740352188	-0.2609777215	-0.364852330
## 90	-0.2248031602	2.282277877	-0.1343076873	0.119923776
## 91	0.0155068105	0.681502681	-0.2006068080	0.161024404
## 92	0.2048783875	0.018754754	0.0452593370	0.120182816
## 93	-0.0166008265	0.249558640	0.1054641720	0.077598301
## 94	0.8094814133	0.062538309	0.1024353453	0.020517341
## 95	0.0604893920	-0.487996351	0.0923559740	-0.012261764
## 96	0.0977754130	0.327197326	-0.0018973595	-0.105465022

## 97	0.1491890173	-0.076498005	0.2491631952	0.065928576
## 98	-0.2971939475	3.017950501	-0.8796643700	-0.094692007
## 99	-0.1843421730	0.446929863	-0.6148952205	0.095358670
## 100	-0.2991469780	0.703740384	-0.4263791495	-0.075564730
## 101	-0.2456185448	0.193430789	0.0073128592	-0.146344053
## 102	-0.5209916758	-0.836721583	-0.2433664788	-0.164307020
## 103	-0.2077797945	0.007727884	-0.0740024160	-0.068960454
## 104	0.0913654750	-0.700246388	0.1044616565	0.217765362
## 105	0.1183156705	1.097740900	-0.5029549500	-0.301309613
## 106	-0.4542923287	-0.419026635	0.0297862832	-0.106042219
## 107	-0.0417109290	1.385634787	-0.1563944245	0.045158012
## 108	0.1247344765	0.133298922	-0.1585270190	-0.265187247
## 109	0.3882246140	-0.396689725	-0.0323394885	-0.057848138
## 110	-0.2538007800	1.098741731	-0.2775948145	-0.138135873
## 111	-0.1353441185	-0.347729723	0.3636945890	0.181411209
## 112	0.0861456635	1.100666706	-0.2129859100	-0.268736960
## 113	0.2706927545	1.587279252	-0.1433186820	-0.129593387
## 114	0.1427744465	-0.891231622	-0.4250889480	-0.085956133
## 115	-0.0090378340	0.433314368	0.1457451200	-0.049202796
## 116	-0.3357739993	0.252933041	0.0379211188	0.087703820
## 117	-0.4391260958	-0.510663527	0.0777029483	-0.251566566
## 118	0.0639708990	0.345684659	-0.1262158745	0.362746998
## 119	1.0929470890	-0.911849687	0.7341577955	-0.134589061
## 120	-0.3221648880	-0.298515564	0.2810230690	0.050359165
## 121	-0.1664875897	2.680130159	-0.1668611477	-0.146844318
## 122	0.3269331455	0.843675557	-0.2816716050	-0.077067894
## 123	-0.0883196665	1.799571037	-0.2488393920	-0.330680814
## 124	0.0219471240	1.789172822	0.2003483345	-0.006755180
## 125	-0.0046358860	1.271354057	0.0848288935	-0.034881167
## 126	0.1510594595	-0.295052392	0.0124687000	-0.163959290
## 127	-0.0315287720	1.846302674	-0.3255382255	-0.087025338
## 128	-0.0388752315	1.301856652	-0.3788828210	-0.123691534

## 129	0.1966617845	2.301918339	-0.5892546760		-0.280023294
## 130	0.2312215605	2.472059389	-0.4070196410		-0.259325781
## 131	0.1032126805	-1.033427291	-0.0734924530		-0.375904289
## 132	0.1976692420	-0.817106894	-0.1095031225		-0.164893519
## 133	0.2467244325	2.214206527	-0.0827140090		0.039130490
## 134	0.4263569207	-0.674021150	-0.1035409123		-0.122887161
## 135	-0.1426400398	0.058148312	0.0057645843		0.091566190
## 136	0.0146147723	-1.439900792	0.0409302402		0.021140694
## 137	-0.4506854682	-0.220813231	0.0834593137		-0.168692979
## 138	-0.2045634490	-0.246112098	0.3067616580		-0.063660462
## 139	-0.3159424380	-0.222464246	0.3143739060		-0.341501047
## 140	-0.0371493332	0.565211489	0.2406447948		-0.288539147
## 141	-0.3140999075	0.926459800	-0.0047132165		0.091755150
## 142	-0.2653023293	1.764518925	-0.1610145132		0.114446538
## 143	-0.4485065918	-1.463168623	0.5208681072		-0.074496152
## 144	-0.2162681605	1.261451959	-0.1162900165		-0.162679102
## 145	0.1111168310	-0.061540082	0.1391469200		-0.087195349
## 146	0.0730988920	-0.407306475	-0.0482602205		-0.125323353
## 147	-0.1105276255	0.707784225	-0.2528451230		-0.088362233
## 148	-0.3485921085	-1.492753433	0.0009534085		-0.140998546
## 149	-0.4035816740	-1.361990361	0.1673510890		-0.098507206
## 150	-0.5370372008	0.604875291	0.0809121133		-0.080909073
## 151	-0.0362957040	-0.600001788	0.0769019690		0.122164286
## 152	-0.2345211730	1.654624059	0.1712166090		0.157740951
## 153	-0.5043408105	2.445513004	-0.0053072345		-0.030970241
## 154	0.0065613862	-1.975563294	-0.0021019867		-0.093079262
## 155	-0.1736333388	-0.754675667	0.2514003942		-0.095176797
## 156	0.4104187295	-0.778213370	0.0193915020		0.035891938
##	pp_Fibronectin	pp_G6PD	pp_GAB2	pp_GAPDH	pp_GATA3
## 1	-0.478830174	-0.2584838485	0.199596415	-0.26267390	0.59167036
## 2	-0.049203693	0.4718726890	-0.260102064	-0.34515082	-0.36517982
## 3	0.034416321	0.6407918400	2.275934360	0.24299811	0.32297094

## 4	-0.266141148	-0.2590427997	2.248916733	-0.35876799	1.48067725
## 5	1.505340947	-0.1183213165	-0.259795414	0.06920744	-0.24540392
## 6	0.128559827	0.5185524585	-0.159649809	2.43379044	-1.20984414
## 7	-0.221364853	-0.0481159020	-0.369528848	-1.45091542	-1.47221038
## 8	-0.321513840	-0.0964920555	0.124939800	1.47095775	-1.97894466
## 9	0.663718431	-0.1082372685	0.257689671	0.64746192	-2.03266172
## 10	0.754776443	-0.2190215052	0.761223209	0.13491180	1.82609758
## 11	-0.915595151	-0.0035498410	-0.550295248	0.19118829	0.52798292
## 12	-0.438626660	-0.1063765520	0.805308997	-0.36464764	-0.04911975
## 13	-0.411642927	-0.3831445545	0.312380483	-0.02603605	-1.79718735
## 14	1.559723185	0.0224025275	-0.723368910	0.60557557	-0.09561179
## 15	-1.293058041	0.0841259845	-0.429412947	0.11865299	1.82292056
## 16	1.178092630	0.2422048325	-0.277314328	0.58328828	0.52503130
## 17	0.734483863	-0.1328446640	-0.193641830	-0.45375673	1.75300877
## 18	-0.258033491	-0.1032048250	1.185625259	-0.02719960	0.68086532
## 19	-1.710951063	-0.3595443940	0.333521532	-0.24086168	1.88802086
## 20	0.355636516	0.1676067205	0.547966067	-0.19808824	0.26172762
## 21	-0.295363298	0.1844467710	-0.125644912	0.06761439	-0.38701486
## 22	0.166099791	0.4628585500	-0.803206606	2.09091507	-1.63951845
## 23	0.434538113	0.2876776535	0.233824839	-0.21614835	0.53075385
## 24	1.727764871	0.1146340490	0.208590714	0.83820320	-1.69212677
## 25	-1.014639985	-0.2110591950	0.298690753	-0.48620390	1.99842713
## 26	-2.897794580	0.1152111135	0.432981043	-0.44867718	0.74318618
## 27	-0.762436062	0.3470118755	-0.012965221	0.22187904	0.23296198
## 28	-0.261795508	0.1623315905	3.863266453	-0.48590498	1.22704425
## 29	-0.408077448	0.4581198615	-0.167919057	-1.07527051	-0.50539396
## 30	0.216063402	0.1339346020	0.143729394	-0.54221316	-0.14169667
## 31	0.268160232	0.2579541355	0.010035317	-0.88087589	-0.32916495
## 32	1.090462317	0.3416677875	-0.169658086	0.33734155	0.32741729
## 33	-0.599061818	0.4321415440	0.147708407	-0.07646428	0.18373031
## 34	-0.176036289	0.2307009490	0.056146696	-0.82764677	-0.21446516
## 35	1.142989389	0.4146749670	0.433029825	-0.05678146	-0.10322461

## 36	-0.945230116	0.1924006680	-0.071194069	0.20284249	-0.80331451
## 37	1.587150422	-0.1762337335	-0.377714653	0.32567654	1.38393585
## 38	0.019753052	0.9122595190	0.169105304	0.72707550	0.58787480
## 39	0.061106052	0.8562600480	0.176263627	0.74939439	0.71924733
## 40	0.041678140	-0.3163566755	0.262899934	-0.31692796	-1.60219860
## 41	-1.119319793	-0.3213718440	0.509386012	1.24158238	-0.48528488
## 42	-0.272840404	0.1830567525	-0.069006137	0.59628479	-0.58356562
## 43	1.064887445	0.1258955280	0.202971556	0.19921534	-0.44582309
## 44	0.171157181	0.2773998635	-0.082041187	-1.12192718	-0.27495623
## 45	1.618581179	-0.0509044440	0.420718535	-0.21816424	-0.04208742
## 46	-0.791108192	0.0873242965	0.905711982	-0.20765395	1.88666022
## 47	1.495247252	-0.8756161850	-0.479817242	0.97350601	0.63579605
## 48	1.373977705	-0.2677979130	-0.315524135	0.22546504	0.58333596
## 49	0.349195943	0.2944893870	-0.412301485	-1.50925998	-0.51365386
## 50	0.245283050	-0.3518776595	0.634021113	0.53522763	1.12147037
## 51	0.882724636	-0.3708694695	0.257515655	1.85856835	-1.90172485
## 52	-0.753183917	-0.2416126050	-0.427303418	-0.69461317	-0.97285500
## 53	-0.448310087	-0.1211290970	-0.511567638	-0.21176510	0.27245891
## 54	-0.233332502	0.0492701560	0.370064099	1.56841976	0.75476406
## 55	-0.266374041	-0.8563991930	0.248319296	0.04014997	1.15889460
## 56	-0.464341928	-0.0863624485	0.578087842	0.27190780	-1.86696671
## 57	-0.234906987	0.7675141785	-0.030435803	-0.89238766	0.02357907
## 58	0.053477849	0.0661283615	0.332176890	-0.05807745	0.47867042
## 59	-0.165713564	-0.2685978960	-0.033460021	-0.08545580	-1.97708576
## 60	0.797514328	0.6183680205	-0.511787355	0.21063279	0.65082366
## 61	-0.094472159	-0.0807258415	0.198330548	-0.77870169	1.29871548
## 62	-0.281012347	0.0767704635	-0.446011204	1.75288727	1.08100622
## 63	-0.502108934	0.4240876910	0.857033386	1.40376229	0.78726124
## 64	0.725013335	0.0112874790	0.053392236	-1.39734080	-0.74920406
## 65	0.713807019	-0.1802959182	-0.162330081	-1.51832702	-1.94338806
## 66	-0.783457294	0.3808976218	-0.002559053	1.45507535	0.43872313
## 67	0.304539013	0.3195200620	0.181744937	-0.94547168	-1.29547653

## 68	0.546500523	0.7219272073	-0.176848003	-1.23910820	-2.80056831
## 69	-0.566467219	-0.1849005865	-0.258189287	0.44690412	0.43637309
## 70	-0.166883165	-0.3470023628	-0.301160716	0.14042228	0.80511655
## 71	1.860906648	0.0264872753	-0.151091484	-0.25421674	0.17905371
## 72	-0.070573257	0.0973638370	0.201317353	0.86776440	0.54567340
## 73	0.831656935	-0.5016817007	0.703854226	1.10830322	-2.57235035
## 74	-0.642094912	0.0786293120	0.721227056	-0.73689130	1.11041263
## 75	1.139557888	-0.0002646025	-0.281013263	3.40350810	-1.39840515
## 76	0.316503051	0.1471277160	0.603310874	0.49799272	0.63013214
## 77	-0.585879156	-0.5866816115	-0.404459481	-0.65028487	0.47763128
## 78	1.357390183	-0.5553882980	0.213378193	-0.78081051	-1.58894041
## 79	-0.222267385	-0.3516681805	-0.014147651	0.43835375	0.38644865
## 80	1.703266032	-0.3195892305	0.484741396	1.03523913	-1.98325261
## 81	-1.494083857	0.6703136720	0.300611822	2.08654659	-0.31950158
## 82	0.008641099	0.0140309740	-0.020833777	1.43026389	0.07141867
## 83	0.479567344	0.0798311510	1.006734063	-0.68576384	-0.26570925
## 84	1.818550783	0.1072846453	1.822093924	-0.03079885	-0.25223693
## 85	0.815212179	-0.4213537132	0.333261721	0.43419910	-1.02860478
## 86	0.365489770	0.3902819305	0.242767711	-0.52578134	1.14543767
## 87	1.060081785	0.0011099877	0.258607683	0.19927073	-0.79565458
## 88	-0.254911320	0.0645693180	-0.104692037	-0.71259538	2.03960854
## 89	0.280633441	0.0806905650	1.261588763	-0.02493521	2.27831082
## 90	-0.865175355	0.1674857348	0.160111550	0.71008270	0.32562369
## 91	0.087893641	0.1543662805	0.342446380	0.26708677	0.44110276
## 92	-0.587976382	0.2293540825	0.102913528	-0.54051965	-0.56663328
## 93	1.104183933	-0.4598776525	2.970657068	-0.59478653	1.53913557
## 94	3.778012304	1.2209502243	-0.703897739	-1.48109538	-1.07656984
## 95	0.681334759	-0.1678156770	-0.158139014	-0.51377920	-0.01828438
## 96	-0.013942217	0.2497783450	0.058448611	0.12975289	0.72798972
## 97	-0.131863986	-0.1102654258	-0.772699371	0.52669311	-2.09119603
## 98	0.914972805	-0.0770231005	-0.734232085	0.01628406	-0.13447171
## 99	-1.035428009	-0.0348049080	0.030535759	0.26086632	0.35153833

## 100	0.001595748	-0.0375676050	1.197847390	0.38552286	1.53843963
## 101	-1.255163439	0.2460991613	-0.697800583	0.50667798	-0.21377995
## 102	-0.373767255	-0.0528776968	0.132516796	0.81437710	1.21319598
## 103	-1.724221900	0.3004079145	0.821937910	-0.04434936	2.39026436
## 104	1.131305824	0.0483856340	-0.128430528	-0.04039357	-0.20729887
## 105	0.615982823	0.1102789465	-0.174760387	-0.93078787	0.82560258
## 106	0.639072533	-0.2934306608	1.617883571	-0.23950632	0.80039465
## 107	0.078974512	-0.0675096620	-0.024267541	0.14428283	0.74216044
## 108	-1.016453460	0.3706566425	-0.291497893	0.47117884	1.48256511
## 109	0.783352263	0.2569080510	-0.019832456	0.09287825	-0.11928262
## 110	-0.336482800	1.1191912890	-0.567493914	0.44359410	1.99190564
## 111	-0.902996344	0.0638569225	0.075933575	-0.67647911	-0.73900470
## 112	0.501953950	-0.2585613075	-0.393828336	-0.01984413	0.84156512
## 113	1.040782883	0.6525941025	-0.122843253	0.72975428	-0.59264876
## 114	0.356980645	0.1607100195	-0.165197182	-0.10628025	0.81775845
## 115	-0.406234868	-0.0571112020	0.062502261	-0.90058967	-1.87216287
## 116	0.380558307	-0.3256484882	-0.031339838	-0.47901131	0.69841981
## 117	0.402249307	-0.4930612038	-0.213129562	-1.21192261	1.74798374
## 118	0.136292110	2.0040849610	-0.153532439	0.84666837	-0.96031930
## 119	2.343347439	0.5067363450	-0.305630897	-1.00820981	-0.36717490
## 120	-0.978391228	-0.1731567730	0.069699891	0.33275982	0.78391852
## 121	0.794433880	-0.0886354787	-0.036372343	0.78019962	0.09766432
## 122	-0.996453143	0.2323095745	0.230435536	-0.51942608	0.35773878
## 123	0.766326996	-0.3270625995	1.521288820	1.99409741	1.54234916
## 124	-0.963621164	0.2585414600	-0.082297089	-0.77488394	-0.66908194
## 125	0.500369381	0.3251778650	1.137735002	0.55441764	1.48106749
## 126	-1.140293155	-0.0847883335	-0.449479244	-1.14851541	1.44950638
## 127	-0.725805232	-0.1588074830	0.188139802	0.46116714	1.11063303
## 128	-0.161984985	0.1558982795	0.135886586	0.76690771	1.25053533
## 129	-0.042822956	0.2022231915	-0.386818029	1.31748001	0.68598784
## 130	-0.699294857	1.0849254865	-0.337074830	0.28546465	-0.68749020
## 131	-2.167632057	0.5069596975	-0.114731405	-0.18909624	1.60368827

## 132	-3.170168183	0.5464421220	-0.093298606	0.20245072	0.46428490
## 133	-1.178750412	0.6580806105	-0.045591245	-0.38573485	-1.23687241
## 134	-0.447271620	0.3694432098	-0.248551099	0.06038851	-0.36706214
## 135	0.785135827	-0.2644760327	0.096670731	0.82286205	0.11224601
## 136	0.753491589	0.0662788942	0.097398468	-0.38551407	0.56579261
## 137	-0.023632484	0.4142577267	-0.293053440	-0.34178040	0.98534323
## 138	-0.744991264	0.0687414530	0.948998650	-0.38552231	-2.35860110
## 139	0.344303921	0.0071121280	0.092372780	0.06995774	0.81917275
## 140	0.137957752	0.2061901057	-0.030296998	-0.23213473	0.41905467
## 141	0.273723477	0.2055563635	-0.472674115	0.51192105	-1.80590177
## 142	0.598571883	0.3203000417	-0.082021504	0.13668092	0.76135949
## 143	0.003408527	-0.1614200798	2.000311245	1.18425635	-0.51008058
## 144	0.599958550	0.9085665575	0.922743185	1.33489481	0.67668760
## 145	0.279007311	-0.1608188830	-0.057128854	1.56115208	-2.07735789
## 146	0.669206860	-0.0343251820	-0.058855498	-0.43795148	2.93839559
## 147	1.024556192	-0.0982029385	-0.076510634	0.56726510	2.00398620
## 148	-0.102810363	0.0857048615	0.287502704	-0.22677532	-2.09394525
## 149	1.059335036	-0.1187628240	-0.093037717	-0.11442897	1.12260480
## 150	-0.033582296	0.0133010993	0.377722614	0.38160363	-0.89607522
## 151	-0.084564948	-0.2311852240	-0.331522314	-0.74657993	0.76807875
## 152	-0.237850892	0.0922306260	-0.423769017	0.32128825	0.37776890
## 153	0.532746254	0.5232002265	0.109720842	-0.14644945	0.10191222
## 154	1.912367942	-0.3681969828	0.169914565	-0.29823935	-2.02099388
## 155	0.584678506	-0.2975471367	0.180409577	-0.46464435	1.27108742
## 156	2.283599110	-0.6166770055	-0.161266199	-0.30838193	0.46858845
##	pp_GATA6	pp_GCN5L2	pp_GSK3.alpha.beta	pp_GSK3.pS9	pp_HER3
## 1	0.006048605	0.321710530	0.006442482	0.424136337	0.317018417
## 2	-0.114966779	-0.276549241	0.061233152	0.827643750	-0.152397743
## 3	-0.080606272	-0.331814128	0.023683938	0.063500522	0.268828271
## 4	-0.217306142	0.025408511	-0.053730361	0.587356083	0.523995809
## 5	0.098802411	-0.337730867	0.069661444	0.311334999	-0.357739004
## 6	0.188483821	0.645173175	0.936712458	-0.102843675	0.037543662

## 7	0.289768572	-0.482245306	-0.461734700	-0.524039791	-0.380234748
## 8	0.292118148	0.102858305	-0.060355949	0.185490714	0.036059559
## 9	0.123122473	0.757312446	-0.039868048	-0.500395649	-0.628000316
## 10	-0.116228128	0.306286675	0.208497453	-0.274712429	0.822625348
## 11	0.083477710	0.450598265	0.005090361	0.233196711	0.417441848
## 12	0.076874272	0.118179189	-0.069935504	0.161569714	-0.367533395
## 13	0.356503897	0.290216655	0.838953942	0.179485053	0.332796039
## 14	0.003006438	-1.081073144	0.197089882	0.293055681	-0.156546155
## 15	-0.109552997	0.723683697	0.167102007	-0.010631577	0.242347659
## 16	-0.365064489	-0.470489749	0.407433920	0.926285713	-0.197207330
## 17	-0.122093636	-0.066114875	0.560967265	0.302833657	-0.344550625
## 18	-0.380373810	0.389429463	0.026588994	1.041200074	0.428257032
## 19	0.049937703	0.106555120	0.120232170	-0.631041054	-0.510284449
## 20	-0.135916478	0.393802384	0.295057784	1.250183632	0.061588522
## 21	-0.082780566	0.122909366	0.337785709	0.391706472	0.295382039
## 22	-0.244704838	0.196061570	-0.084229663	-0.509840026	-0.342244531
## 23	0.083396469	0.160308437	-0.227379926	-0.117450650	-0.230700979
## 24	0.045144427	-0.285894452	-0.076633736	-0.445604661	-0.803527336
## 25	-0.046007497	0.217122371	0.026415008	1.022663347	-0.423563884
## 26	0.009463353	0.129251256	0.417742879	1.973630791	0.120695984
## 27	-0.257275380	-0.194040394	-0.006034747	0.500886628	0.729063789
## 28	0.121815363	0.236402239	0.206858166	0.823700457	-0.087126471
## 29	-0.130803564	-0.908445416	-1.196884647	-0.277372511	1.043297588
## 30	-0.155717089	-0.171490548	-0.634419564	-0.207547451	0.794244306
## 31	-0.126245109	-0.555379706	-0.481391774	-0.343010514	0.717054743
## 32	-1.219906665	-0.070635613	0.116469349	0.639793138	0.089325646
## 33	-1.952385773	-0.924596990	-0.394885415	0.393746854	0.765573751
## 34	-0.243443310	-0.076108541	-0.366739852	-0.185119542	0.347571239
## 35	-0.109423450	-0.063016279	0.312341456	0.890979735	-0.010744471
## 36	-0.121501047	-0.209321608	-0.322274373	-0.442749449	-0.476833502
## 37	-1.578711149	0.028751835	0.309795669	-0.970866936	0.357501733
## 38	0.058662484	0.152955203	0.177577343	-0.116833663	-0.138202253

## 39	-0.017210017	0.118768589	0.421366667	-0.301094182	-0.089038350
## 40	0.029246054	0.240698099	0.698600532	-0.585183301	-0.003459188
## 41	-0.333706869	0.222659948	0.738864001	1.343253792	0.172503721
## 42	-0.102660726	-0.158953921	0.506930809	0.516479285	0.002900474
## 43	-0.139755208	0.397942811	0.439902647	1.479650808	-0.247285959
## 44	-0.298228463	-0.552416333	-0.693731566	-0.332345326	0.200064338
## 45	-0.605932021	-0.793201754	-0.249049970	0.373094282	1.494966609
## 46	-0.202447715	0.589528750	-0.094336434	0.404160305	-0.226755483
## 47	-2.279243238	-0.456612207	-0.137897786	0.346656980	-0.049356756
## 48	-1.368525667	-0.020919774	0.002325683	-0.125306306	-0.147537395
## 49	0.128239816	-0.995509902	-1.331164421	-0.313261244	0.317655227
## 50	0.092571390	0.084404706	0.003491997	0.805462351	-0.374381701
## 51	-0.182533879	0.165141085	0.652266430	0.446915538	-0.186881714
## 52	0.166627782	-1.181342866	-1.258688940	-1.133660062	0.842414048
## 53	-0.173191279	-0.205685738	0.280339862	0.848456277	-0.116386257
## 54	-0.245293993	0.308304406	0.517101209	-0.101398482	0.155579022
## 55	-2.411627285	-0.303771894	0.063189089	0.784618153	-0.201550680
## 56	0.129793116	-0.229978609	-0.335088948	0.335590259	0.349994240
## 57	-0.199079626	-1.125829860	-0.867186859	-0.139098214	0.573877390
## 58	-1.266237664	-0.645313835	-0.170154857	0.286523517	0.105501214
## 59	-0.609532677	0.690187784	0.311379286	-0.051052050	-0.132267545
## 60	-0.753077999	-0.186720610	-0.098859222	-1.586817199	0.075167055
## 61	0.289671959	0.383858160	-0.016066146	0.045255988	-0.202807897
## 62	-0.091478266	0.374981634	0.521389308	-0.007117318	0.144618344
## 63	-0.289729381	-0.075904871	0.441588802	-0.668540105	0.865159384
## 64	0.115310880	-1.470008204	-0.821458839	-0.483013912	-0.675406947
## 65	0.216056984	-0.802721384	-0.541765817	-0.448785778	-0.965343552
## 66	-0.108016645	-0.133838433	0.144857619	0.606307103	0.841706695
## 67	0.133176094	-0.639111517	-0.374604214	0.062769466	-0.729335384
## 68	0.850789950	-1.176117085	-0.645764775	-0.852296854	-0.825536023
## 69	-0.038730560	0.041813177	0.213635901	-0.095473064	-0.346252805
## 70	-0.295805845	0.644641818	0.460020797	0.058921508	1.470621283

## 71	0.014652628	-0.281369683	0.262939771	-0.928384832	-0.677056296
## 72	0.047756354	0.577105854	-0.092102736	-1.405852948	-0.037432829
## 73	0.251194743	0.042613498	0.113715647	-0.004754104	-0.524018593
## 74	-0.834307183	-0.000259624	-0.258775480	0.728047961	0.228628235
## 75	-0.240334968	0.380738813	0.041514384	0.436406423	0.061732994
## 76	-0.102079815	0.086919714	0.755676375	1.701981500	-0.166914837
## 77	-0.448871048	-0.460500890	-0.460982567	0.244098881	0.396174191
## 78	-0.137043112	0.285617624	0.127067714	0.429127944	-0.285424393
## 79	-0.001038186	-0.013492597	0.340684859	0.994811859	-0.014393734
## 80	0.030630545	-0.420861924	-0.142389794	0.135046854	-0.086653470
## 81	-0.306337752	0.045305193	-0.248945254	0.965676814	0.758922543
## 82	0.319085672	-0.128109707	-0.779264404	0.309394116	0.870615450
## 83	0.151313291	-0.430585541	-0.193941014	-0.025842450	0.033388003
## 84	-0.013582298	-0.432393909	-0.218578119	0.557880750	0.149816600
## 85	0.074684258	-0.058931369	0.538321982	0.687710794	-0.067395764
## 86	0.119011482	0.084593047	-0.724719759	0.207085873	0.324195893
## 87	1.244921571	-1.341780444	-0.172170699	0.062563905	0.333662924
## 88	-0.075576717	0.066472115	0.126612897	0.487716026	-0.103890398
## 89	-0.222878367	-0.199021878	0.218250054	1.226433194	-0.025300578
## 90	-0.220279859	0.358664054	0.250286498	1.380018087	1.169225244
## 91	-0.348338066	-0.239951897	0.107161286	0.756860457	0.378397800
## 92	-0.282033882	-0.722307957	-0.128592517	0.522285128	0.528331163
## 93	0.103814933	-0.692903023	-0.457559712	0.207353621	0.059653580
## 94	1.230645077	-1.473438415	-0.619704480	-0.758694352	0.794810032
## 95	-0.022266108	0.029493007	0.055884293	-0.232662414	-0.342240516
## 96	-0.129189976	-0.401363174	0.140179349	0.870973289	0.184256673
## 97	0.147740261	0.634662824	-0.481603183	-0.188234106	-0.736232578
## 98	-1.910191047	0.051456425	0.039700832	0.710464106	-0.222716124
## 99	-0.292046416	0.229471796	0.487373214	1.243647371	0.110094356
## 100	-0.206138593	0.000000000	0.329245621	0.766145128	-0.455270667
## 101	0.319116513	0.576387054	0.217545673	0.739947403	0.186208521
## 102	-0.204210838	0.346373612	0.006953444	0.945945530	0.776742980

## 103	-0.431155344	-0.379037566	0.409938741	1.521947936	0.449788207
## 104	-0.207227117	-0.886562782	-0.367091634	0.093472227	0.228250092
## 105	0.070905411	0.341672700	0.016613463	0.775999057	0.372454179
## 106	-0.039540424	0.283053433	-0.026410798	0.799921922	0.848918594
## 107	-0.180501008	0.143292952	-0.007718981	1.126279227	-0.267355037
## 108	0.173027093	0.172544124	-0.357239580	0.293165613	-0.045184959
## 109	-0.233174332	-0.587957551	-0.712012480	0.537243790	0.003866614
## 110	0.119017931	-0.448110640	0.348368185	0.925209730	-0.317587823
## 111	-0.286164376	0.024461955	0.113353180	1.129527287	-0.279123499
## 112	-0.034468604	-0.046883933	-0.192683332	-0.010196092	0.510910257
## 113	-0.070819985	-0.089186684	0.159176491	0.171613469	-0.157197988
## 114	-1.096496262	0.185384812	-0.018409496	0.749202545	0.610980747
## 115	0.191959004	-0.379889278	-0.133093038	0.460905962	-0.281801607
## 116	-0.069318776	0.117539658	0.055592368	0.653132006	-0.025538486
## 117	-0.052740071	0.216919936	-0.060482868	0.885689912	0.821470967
## 118	-0.067429289	-0.539303762	0.172454752	0.672532053	-0.379935070
## 119	-0.144056047	-1.063209727	-1.178734161	-0.575060451	0.591097034
## 120	0.302179186	-0.205045379	0.420803176	0.969027350	0.697987237
## 121	-0.023089378	-0.022722736	0.328192541	0.448409185	-0.197889974
## 122	-0.171063872	-0.387439932	-0.242913246	1.116323866	1.166137163
## 123	-0.060760001	0.129623481	0.244504456	1.028041444	0.017244631
## 124	0.058276930	-0.061333755	-0.077858533	0.738263021	0.028298242
## 125	-0.141419951	-0.330226239	0.554664989	-0.225679587	-0.079592465
## 126	0.005538703	-0.123810038	-0.166638323	0.263647915	1.578628788
## 127	-0.249730982	0.397028269	0.404064406	-0.119599523	-0.097823780
## 128	-0.190800041	0.224161729	0.260240920	1.155203745	-0.181671359
## 129	-1.167331979	0.304038566	0.158185823	1.173474010	0.115326513
## 130	0.114335780	-0.300123812	0.177736496	1.127235267	-0.037623284
## 131	-0.147970175	-0.289321744	0.135558436	-0.252883643	0.010384796
## 132	0.028696245	-0.253785691	-0.977131936	0.390592379	0.292593901
## 133	-0.242855979	-0.573860683	0.586939845	0.154465808	0.228121339
## 134	0.480963320	-0.534817092	-0.127013703	1.416242417	0.011751116

## 135	0.005579777	-0.617957175	-0.347105337	0.185961752	0.248714571
## 136	0.705595506	-0.135825190	0.236655915	-0.166413107	-0.371717389
## 137	-0.132343822	0.467143466	0.245525418	-0.807821090	0.431364899
## 138	0.530542853	0.536461949	0.593579845	1.255610194	0.660886452
## 139	0.033419905	0.315833105	0.418409551	-1.024549981	0.846981662
## 140	-0.100409254	0.354110272	0.749138924	-0.790866819	0.133476637
## 141	0.336527718	-0.313790342	0.439601969	0.314099085	-0.310411970
## 142	-0.052309810	-0.516231473	0.177327337	0.365416008	-0.617072157
## 143	-0.111120299	0.575071544	0.185213953	0.977791786	-0.562913471
## 144	0.012988927	-0.278795623	-0.041927169	0.378854419	0.246367942
## 145	-0.041650895	0.276762172	0.050835721	0.563114021	-0.812268621
## 146	-0.090922680	0.440711421	0.222473780	-1.049717502	0.602837848
## 147	-0.311965914	0.534224618	0.143871727	0.080436198	0.100818990
## 148	0.133790885	0.533831923	0.257657099	-0.481469685	-0.066155595
## 149	0.303732722	-0.020254318	-0.086839721	-0.254425028	0.899699250
## 150	0.436694565	-1.108176338	0.819646110	1.654987031	0.867900051
## 151	0.038940217	-0.172298705	-0.111587112	0.102180588	-0.241431973
## 152	0.332264461	0.671484346	0.096567357	-0.067254851	0.520900822
## 153	0.197425375	-0.482725660	0.384058369	1.635959043	-0.100627381
## 154	0.145984330	-0.329039762	-0.214982241	0.479091217	-0.915377729
## 155	-0.211244757	-0.022842702	0.007002887	1.009827994	0.622284647
## 156	0.169205926	-0.347155826	-0.606114404	-0.911879452	0.313802656
##	pp_HER3.pY1289	pp_HSP70	pp_Heregulin	pp_IGF1R.pY1135.Y1136	pp_IGFBP2
## 1	0.145925916	0.80619241	-0.149171381	-0.073898690	-0.164287581
## 2	0.301291824	-0.33229304	0.006104715	-0.184683977	0.261354994
## 3	-0.230391946	0.63149407	-0.071118046	0.033526462	-0.327197536
## 4	-0.151235632	-0.12905185	-0.158664287	-0.134258623	1.827944410
## 5	-0.039213616	-0.14757811	-0.146547897	0.238107059	-0.701328915
## 6	-0.073100825	-1.50911143	0.261899516	-0.137680584	-0.800952927
## 7	0.563742158	2.16009356	0.179103944	0.490711915	-0.537540580
## 8	0.005707929	-0.53122812	0.155514155	-0.116804873	-0.610510232
## 9	0.323940005	-0.64350612	0.220545231	0.096193562	-0.090558142

## 10	0.009921002	-0.65441843	-0.022890021	-0.067039197	1.127685450
## 11	0.013313700	-1.30561471	-0.006649565	-0.083546605	0.226139471
## 12	-0.049842014	1.16811541	-0.128678941	0.000000000	1.133954537
## 13	-0.379263504	0.62490856	-0.328191825	-0.102257867	-1.917861146
## 14	-0.036026783	0.48078119	0.007393880	-0.057713828	0.568898667
## 15	-0.231218248	-0.76894001	0.077067758	-0.237093461	2.081295020
## 16	-0.345357301	-1.18141284	-0.198999272	-0.273025964	0.379271509
## 17	-0.047682949	-0.95988792	-0.073975985	-0.087635668	1.074794249
## 18	-0.391818084	-0.10279695	-0.037472310	-0.085039508	1.123361775
## 19	-0.078760857	0.39229653	-0.070215658	0.070314436	0.370097289
## 20	-0.113171101	-0.49215927	0.026231201	-0.205656511	0.539913923
## 21	0.083193909	-1.02824487	-0.088825924	-0.298666588	1.070130946
## 22	-0.003370653	0.09628637	0.270692775	-0.046145369	-1.362459024
## 23	0.237047818	1.73041932	-0.053003657	0.004557246	3.867210615
## 24	0.064787058	0.71175311	0.156841427	0.147111556	-0.702049820
## 25	0.291647401	0.59000688	-0.105013717	-0.059184031	-0.054535743
## 26	-0.010216035	-0.62531029	0.054550787	-0.070034899	2.515054591
## 27	-0.039501110	0.35033995	-0.019206046	-0.290132921	-0.091262331
## 28	-0.024720385	0.64951729	-0.050941256	-0.200202581	-0.409522339
## 29	0.638258709	3.03612916	0.325354666	0.336719865	-0.063238828
## 30	-0.300793685	1.51654325	0.232961250	-0.017632618	0.393907743
## 31	0.595308829	2.69649061	0.584584620	0.209310976	0.544833602
## 32	0.260037207	0.06843926	0.107159998	-0.311179508	-0.700785665
## 33	0.070789989	0.00000000	0.311137665	-0.514715345	0.370046385
## 34	0.405193337	1.28208252	-0.044923760	0.019259517	-0.554299493
## 35	0.416339846	0.54175910	0.003858611	-0.077370989	0.359777924
## 36	0.140095326	0.63892895	0.097739212	0.072612680	-1.553648875
## 37	-0.084005578	-0.22574138	-0.012508934	-0.021058505	-0.929262933
## 38	-0.223387535	-1.05381079	0.096425893	-0.184047030	1.661053938
## 39	-0.184496014	-0.90749627	0.111208539	-0.163723579	1.677834523
## 40	-0.250137576	-0.70058216	-0.015889914	0.078082175	-1.467394065
## 41	-0.285403248	-0.95865719	-0.138198861	-0.310982610	-0.646929312

## 42	0.489495626	-0.41795936	-0.011221933	-0.225491343	1.217751610
## 43	-0.314800958	0.95165469	-0.084533696	-0.240811494	-0.652185853
## 44	0.476968380	2.20070566	0.192176047	0.202555740	0.763907698
## 45	0.693664470	1.27762349	0.312224361	-0.115746715	0.234875402
## 46	-0.181271021	-0.73430506	0.000000000	-0.130655806	0.347769237
## 47	0.851738555	0.44362858	-0.049997732	-0.164861252	-0.435178727
## 48	0.031532545	-0.64434011	0.135194262	0.011633460	0.802159295
## 49	0.533188414	2.20346841	0.244385344	0.301742158	0.224075016
## 50	-0.154155805	-0.43524588	-0.243259144	0.091542112	0.341691068
## 51	-0.266555317	0.08281117	-0.162378080	0.026918220	0.822175433
## 52	0.819574094	2.35786152	0.363083661	0.744018600	-0.362400705
## 53	0.731099472	-0.62654110	0.076378982	0.089697034	0.666754015
## 54	-0.008755704	-0.31425234	-0.016098038	-0.109466002	1.728143220
## 55	0.560639777	0.34512736	0.398983637	-0.137789462	0.815139816
## 56	-0.019873384	0.63147611	-0.037825327	-0.072588626	1.303089263
## 57	0.566964815	1.75296289	0.517395291	0.424498681	0.864262013
## 58	0.075414611	0.59002783	-0.007625691	-0.234013985	1.156987613
## 59	-0.213040036	-0.77698558	0.287800006	0.092022109	0.844336564
## 60	0.183132402	-0.11558695	0.186397281	-0.041856955	0.790915110
## 61	-0.192102465	0.56560428	-0.137556247	0.027982059	0.325660582
## 62	0.039675125	0.61852437	-0.238189622	-0.250942528	-0.293393478
## 63	-0.114897005	-0.22301659	0.032099705	-0.125867733	-0.908910822
## 64	0.251441768	2.92741820	0.140771085	0.741490924	0.589062927
## 65	0.366479556	1.73255966	0.070261235	0.200698137	-0.631375617
## 66	-0.168300176	0.16304941	-0.389865641	-0.378957470	0.548049153
## 67	-0.153886256	0.35767305	-0.146845926	0.112414383	-1.003253321
## 68	0.460307477	2.11166481	0.662332242	0.939742006	-0.582775802
## 69	0.140038678	0.14011419	-0.106924314	0.054186065	0.522487602
## 70	-0.254402648	-0.63553590	-0.057195919	-0.304610609	1.184809439
## 71	-0.078310127	0.93104995	0.081310659	-0.031643273	1.376280014
## 72	0.018741580	-0.31065916	-0.050705054	-0.042518437	1.030863435
## 73	-0.061669193	-0.21808010	0.119970406	-0.154028252	0.474358908

## 74	-0.037836163	-0.07319760	0.077562466	-0.028318248	-0.182459438
## 75	-0.091113241	-0.32251903	0.046498055	-0.181233013	-0.863470995
## 76	-0.283677739	-0.61318232	-0.094785729	-0.151738549	1.537094102
## 77	0.431143979	1.99447113	0.121725743	0.789742331	0.753370731
## 78	-0.191526398	0.37854100	-0.222210807	-0.217560766	-0.783740575
## 79	0.058368574	-1.02460471	-0.174078210	-0.011579326	0.522236478
## 80	0.010972962	0.62814551	-0.003711411	0.258135391	1.149032695
## 81	-0.657429934	-1.34989793	0.671204776	-0.865862644	0.272934487
## 82	-0.600433167	0.32751761	0.195033872	-0.856216656	-0.383348211
## 83	0.266764330	0.50522674	0.119546210	0.245436825	0.252140162
## 84	0.018829127	-0.79777856	-0.121765967	0.107421018	0.007647831
## 85	0.075122687	-0.68779937	-0.135413825	-0.123808001	-0.718341493
## 86	0.430269905	0.40883320	0.518633134	0.299421471	0.287684875
## 87	-0.088120029	-0.02347219	-0.030115563	0.171153385	1.689010930
## 88	0.066302660	0.29600175	-0.021918818	0.062993046	-0.779341799
## 89	-0.087322813	-0.01168050	0.120922983	-0.179818039	-0.624657951
## 90	-0.026093221	-1.38335991	-0.113671770	-0.019104009	2.571000142
## 91	-0.032630326	0.83015715	0.198401319	-0.205223670	1.222756348
## 92	0.349881345	0.79482829	0.000000000	-0.138240093	0.530655441
## 93	0.331592000	0.58280319	-0.264160063	0.259424991	1.242314523
## 94	0.226654822	1.67040150	0.554153963	0.689047232	-0.389475483
## 95	0.085651988	0.76514721	-0.161982035	0.085324269	-0.285929335
## 96	1.306586299	-0.85623991	-0.013733515	-0.240659905	-0.371309013
## 97	0.076818553	-0.66253270	-0.033346982	0.152947849	0.351381139
## 98	0.133333983	-0.63677491	-0.018224098	0.275334128	0.771638357
## 99	-0.200877545	-1.66988953	-0.277517056	-0.178970912	0.110947332
## 100	-0.217052307	-0.83328855	-0.354766704	-0.211139481	0.314406665
## 101	-0.079241068	-0.75654897	-0.065399854	-0.064940365	2.117031393
## 102	0.038016138	-0.46764990	-0.196531412	-0.207021406	1.943744018
## 103	-0.148107224	-1.82683837	-0.076725512	-0.304018171	0.994432678
## 104	0.268223369	1.05736778	0.168850528	-0.051168286	0.855430826
## 105	0.017916282	-0.12285250	0.091452438	0.219631030	0.539124986

## 106	-0.044571957	-0.17593659	-0.088992297	-0.052248052	0.363171160
## 107	0.071258747	-1.92464963	0.018034334	-0.132569319	0.462184063
## 108	-0.011497624	-1.48459042	0.171979801	0.921819404	0.183463100
## 109	0.346307289	1.29954447	0.384077997	0.198237025	-0.037361696
## 110	0.849272681	0.21469972	-0.259514488	-0.049678005	1.533409648
## 111	-0.153744647	-0.56385847	0.094934837	-0.322920891	0.810246360
## 112	0.165121777	0.06424190	-0.027865028	0.100317347	0.245129734
## 113	0.041766908	0.75618982	-0.004081735	0.211084600	0.986246028
## 114	0.127441967	-0.97765685	0.177136421	-0.087142585	1.476488482
## 115	0.386896476	0.84291184	-0.129442968	0.115112303	-0.979944282
## 116	-0.190127021	-0.52839465	-0.116829868	0.162880702	-0.049537852
## 117	-0.006291774	0.91246993	-0.193708703	0.077514919	0.241270790
## 118	-0.129558832	-0.09984313	-0.207041130	-0.076432468	0.885656281
## 119	0.669916510	2.67593595	0.257913744	0.174230485	0.301596547
## 120	-0.041878604	-0.76973932	-0.068102536	0.000465865	0.830781395
## 121	-0.042388975	-0.24393889	-0.098303952	0.041160519	-0.523768889
## 122	-0.136496148	0.82942546	0.142515209	-0.413173765	-0.218734034
## 123	-0.181081266	-1.15135147	-0.076000039	0.119379879	-0.996383301
## 124	1.329251236	2.72400161	-0.154718559	0.107043937	-0.100167959
## 125	0.213850299	-1.20633275	-0.016423226	-0.268313589	2.394948250
## 126	0.228466335	1.90133498	-0.016881997	0.087466686	-0.555632163
## 127	-0.207420449	-0.74925434	-0.134618189	-0.169484428	-0.686702252
## 128	1.105564126	-0.01038686	2.610556676	-0.193356395	2.404526447
## 129	0.037281126	-1.12158906	0.076440077	-0.031872680	0.774883654
## 130	0.006930177	-0.76818185	0.249025244	-0.058231464	-1.253864437
## 131	0.064761127	-0.29866422	-0.026168346	-0.140411239	-1.115657081
## 132	0.494927529	0.24666602	0.432210245	-0.108857653	0.603608808
## 133	0.724977646	0.42784927	-0.018676505	-0.218361717	-1.665278318
## 134	-0.039766055	-0.45872298	0.046034354	0.328353104	0.600006252
## 135	0.109823241	1.40956601	0.085221913	0.089880425	0.344373971
## 136	-0.254044751	-0.01831315	-0.090008653	0.170402726	-0.151540614
## 137	0.121288208	-0.42717600	-0.041641202	-0.008949781	0.670294605

## 138	-0.007500519	-0.78473868	0.017532709	-0.161068053	-0.988795055
## 139	-0.086669976	0.07480407	0.111025015	0.000203578	0.546749191
## 140	0.013005051	-0.47218364	-0.103564823	-0.033406816	0.816829884
## 141	0.062610130	0.70214801	-0.009775305	0.061732932	-0.954740451
## 142	0.188046704	-0.85674369	-0.157260659	-0.049354993	-1.022083939
## 143	0.040891396	-0.74773882	-0.167365188	-0.132450072	0.851383253
## 144	0.036269238	-0.55508899	-0.103640591	-0.097827026	2.078556222
## 145	-0.034178772	0.31758575	-0.008696584	0.043592170	0.845247182
## 146	-0.259062206	-0.32731596	0.124402099	-0.158813289	0.435288019
## 147	-0.372357579	-0.14842655	-0.025840321	-0.327529686	-0.317461068
## 148	0.132867888	0.16843992	0.224095827	0.046134014	-0.457862954
## 149	0.087341975	0.31062541	0.135933741	0.240810225	0.988567523
## 150	0.085029523	0.28523614	0.625251253	-0.068267545	-0.968512070
## 151	-0.155149792	0.99209093	-0.089489612	0.176948881	0.211561057
## 152	0.037326634	-0.69165608	0.086619640	-0.007264501	0.683203835
## 153	0.105013578	-0.53480819	0.071785244	0.050520109	0.928547757
## 154	0.116316249	1.94577494	0.112520317	0.280811118	-0.212360108
## 155	-0.072628312	-0.07762471	0.049231905	-0.137965474	0.049886827
## 156	0.396957228	1.93173363	0.034156502	0.370313799	0.584367661

##	pp_INPP4B	pp_IRF.1	pp_IRS1	pp_JAB1	pp_JNK2
## 1	7.040547e-01	-0.26192974	0.311026949	-0.127944300	0.085391049
## 2	8.241566e-01	-0.02283736	0.247076996	0.019367781	0.211994964
## 3	1.289282e+00	-0.22080521	0.630498800	-0.111733339	0.118496150
## 4	5.606222e-01	-0.06811162	0.082628859	-0.171915577	0.221314795
## 5	7.549021e-01	-0.13564827	-0.227727001	0.102018778	-0.108874111
## 6	-7.430863e-01	-0.41038129	-0.362712614	0.263104125	0.027153111
## 7	-8.575171e-01	0.06829855	0.257881150	0.201714742	-0.362824594
## 8	-1.619963e+00	-0.03188128	-0.266653845	0.056173584	-0.019572848
## 9	-1.483196e+00	-0.11833429	-0.081950105	-0.080930791	-0.504284021
## 10	7.834664e-01	-0.25240362	0.336622270	-0.105403123	0.050955664
## 11	2.765969e-01	-0.06128240	-0.293447682	0.066406587	-0.449039089
## 12	1.674694e-01	0.06562384	-0.032639703	-0.007426466	-0.068786146

## 13	2.157443e-01	0.56506022	0.148738214	-0.205048769	-0.526409475
## 14	9.199271e-01	-0.30495470	0.022942957	0.085335142	0.364467040
## 15	1.341779e+00	-0.30364616	-0.085863581	0.185903181	0.638478934
## 16	3.070108e-01	-0.13708601	0.191904703	-0.126258909	0.386884697
## 17	1.274662e+00	-0.38842486	0.168149616	0.073766178	-0.252600430
## 18	2.324407e+00	-0.04192519	0.414855539	-0.067016991	0.004143122
## 19	6.664606e-02	-0.13296404	0.113196185	0.068794847	0.437231790
## 20	4.993304e-01	-0.21313134	-0.317552636	0.043618370	0.136769051
## 21	-3.028745e-01	-0.30117700	-0.367133930	-0.048792254	-0.282838965
## 22	-1.021360e+00	-0.35442695	-0.273811682	-0.007907225	-0.628704977
## 23	-5.534243e-01	-0.26817923	-0.215304450	0.108835591	-0.143591350
## 24	-1.586408e+00	-0.32086828	-0.164439790	-0.000951774	-0.358047467
## 25	-2.929871e-01	-0.07160127	0.043367388	0.076339329	0.221015742
## 26	8.698080e-02	-0.07039104	0.387550325	0.164668770	0.376561087
## 27	1.344713e+00	-0.21481117	0.053748939	-0.151237846	0.237632209
## 28	-6.032095e-01	0.15485859	-0.117914157	-0.091597812	0.136800447
## 29	3.085392e-01	-0.38005638	0.224614524	0.362397011	-0.139860159
## 30	8.568857e-01	-0.04197643	0.139515520	0.154034291	-0.110500112
## 31	1.898407e-01	-0.06757927	0.000000000	0.219584139	-0.217950512
## 32	-3.758263e-01	0.06655355	-0.271346921	-0.311120292	0.250619451
## 33	1.370780e-01	-0.24409905	-0.023531982	0.045767828	0.397657384
## 34	6.598684e-01	-0.26989644	-0.034703152	0.211317278	-0.111009896
## 35	-1.281107e-01	-0.10811644	-0.240000785	0.157698982	-0.095072101
## 36	-1.259050e+00	0.20936104	-0.236088904	0.191889626	-0.223960015
## 37	1.183626e+00	0.43204979	-0.026397632	-0.357019064	0.723773218
## 38	-9.120897e-02	-0.15188322	-0.218484369	0.232622788	0.322305642
## 39	-4.049629e-02	-0.19632223	-0.149129611	0.192564723	0.313757748
## 40	4.344786e-01	0.61957769	-0.139182831	-0.087866172	-0.203303780
## 41	-3.659084e-01	-0.12036749	-0.138759900	-0.238940079	-0.455187473
## 42	-4.682961e-01	-0.24166690	-0.140903499	-0.131547654	-0.004032415
## 43	-8.492595e-01	-0.27421439	-0.455250840	-0.169674531	-0.524750514
## 44	-9.445421e-03	-0.51620644	0.318405432	0.172947849	-0.015425571

## 45	-4.570520e-02	-0.36766995	0.178431648	0.257346972	0.337702098
## 46	-3.425697e-01	-0.36728895	0.314684145	-0.012687132	0.273586320
## 47	-3.005024e-02	0.21390738	-0.080831705	-0.460942968	0.694300902
## 48	2.537523e-01	0.07272702	0.154149466	-0.138928221	0.452096406
## 49	1.367757e-01	0.02553266	0.800611067	0.028134609	-0.443007139
## 50	1.649271e+00	0.19818749	0.495950053	0.002507588	0.380334733
## 51	-7.261161e-01	-0.26004129	-0.275022824	-0.079571123	-0.021386570
## 52	2.774260e-01	-0.17147928	0.809634445	0.203344358	-0.303346777
## 53	-3.518476e-02	0.12528037	-0.201659347	-0.074826719	0.664141217
## 54	1.200208e+00	-0.31952591	0.258205101	0.047790181	-0.305348057
## 55	-3.063667e-01	0.47278797	-0.252313440	-0.305603693	0.708438505
## 56	-3.076341e-01	0.01901415	-0.099125767	-0.127064092	-0.508337225
## 57	-2.906227e-01	-0.18263679	0.286760915	0.438036266	-0.234956946
## 58	1.289573e-01	-0.13922413	-0.040781794	-0.294415850	0.495511624
## 59	-8.488360e-01	0.44075461	-0.117370400	-0.118566712	-0.412845562
## 60	-5.496610e-01	-0.50459555	-0.059065509	0.194321088	0.167866351
## 61	-6.131322e-01	-0.27000477	0.578188851	0.349756173	-0.089001282
## 62	1.308547e+00	-0.10924451	-0.421007417	0.001302869	0.574346362
## 63	1.110503e+00	-0.03864710	0.452588687	0.372952732	0.631538330
## 64	-4.036072e-01	0.13644397	0.242419481	0.328946310	-0.512385307
## 65	-1.209842e+00	0.02163785	-0.111378082	-0.209417833	-0.397197402
## 66	2.183145e+00	0.05267813	0.264234556	-0.142958716	0.705293979
## 67	-6.383293e-01	-0.38647673	-0.011611082	-0.021736614	-0.285323967
## 68	-2.371037e+00	-0.22649560	0.066338572	0.497782788	-0.577779830
## 69	7.119921e-01	-0.09988997	-0.273355837	-0.089236169	0.326390947
## 70	1.999968e+00	0.16015523	0.263513477	-0.180499839	0.039309320
## 71	-3.021121e-01	0.06644655	0.052859874	-0.099381948	0.570349023
## 72	9.827258e-01	-0.17341196	-0.074950138	0.061116087	-0.187037960
## 73	-1.781352e+00	0.07473293	0.565277167	-0.250365161	-0.025749928
## 74	1.309950e+00	-0.00916601	0.057450146	-0.058398311	0.456762799
## 75	-2.854229e-02	-0.28170315	-0.503612398	0.043396636	-0.590574263
## 76	3.411408e-01	-0.13980438	0.590785662	0.024049368	0.187206001

## 77	6.703922e-01	-0.43665301	0.484212136	-0.297177738	0.167191131
## 78	-7.210607e-01	-0.29088349	-0.149216987	-0.451341025	-0.147872368
## 79	1.105353e-01	-0.05167912	0.299582438	0.103646876	0.611748243
## 80	-9.196160e-01	0.18208157	-0.156216850	-0.156372033	-0.522523741
## 81	-2.221856e-01	1.45019889	-0.309984078	1.627354785	0.030778734
## 82	-1.271414e-01	0.14816320	0.006303248	0.971072087	-0.037355672
## 83	1.078551e+00	-0.01537218	-0.010525520	-0.056970166	-0.376497404
## 84	1.429146e+00	0.24941656	0.232895508	-0.141425952	-0.299246386
## 85	-2.010334e+00	-0.08270880	-0.083855697	-0.451475058	-0.607794732
## 86	3.009173e-01	-0.45755441	-0.063176034	0.522629312	-0.405638208
## 87	1.854703e-01	-0.08612598	0.007481828	0.302776501	0.077522359
## 88	-2.314138e-01	-0.15984558	-0.060578329	0.097500459	-0.358970061
## 89	7.792604e-01	-0.07124093	-0.178755923	0.143519239	0.147052589
## 90	-9.843677e-01	0.04598224	0.020219952	-0.225041595	-0.010274628
## 91	3.130852e-01	0.06737050	0.009063601	-0.311968203	-0.211249170
## 92	-2.283297e-02	-0.08008939	-0.119545822	-0.088676913	-0.004502701
## 93	5.439385e-01	0.00000000	0.234937787	-0.200122938	-0.057516242
## 94	-8.787522e-01	0.03697823	0.108761314	0.154499091	-0.084303155
## 95	6.373150e-01	-0.07844426	-0.172502811	-0.045449481	0.389324485
## 96	5.292854e-01	-0.04995969	-0.048121765	-0.155451439	0.312079010
## 97	-1.873695e+00	-0.26419501	-0.143434241	0.205595703	-1.033965198
## 98	-2.427598e-01	0.30109066	-0.235944561	-0.223212640	0.067274369
## 99	1.690728e+00	-0.31536375	-0.168550657	-0.215923679	0.027716521
## 100	9.911018e-01	-0.16662797	0.942305904	-0.159328886	0.914075065
## 101	-7.895421e-02	-0.04954480	0.222292619	0.237895158	-0.178683129
## 102	1.640676e+00	-0.33386742	0.310207753	-0.057721407	0.351116249
## 103	1.957106e+00	-0.20709119	0.095268242	0.004124561	0.632550904
## 104	3.631578e-01	-0.09696113	0.144246035	-0.059231639	-0.110203319
## 105	9.916091e-01	-0.30535287	-0.092915094	0.052210641	0.034649396
## 106	1.376659e+00	0.05771287	1.069373045	-0.251728928	0.225990939
## 107	1.294531e+00	-0.16693144	0.248797174	0.076517146	0.348787935
## 108	-7.161652e-02	0.03972242	0.264054310	0.304366298	0.075584625

109 -2.090206e-01 0.04452911 0.047826458 0.217833125 -0.136590048
110 2.987922e-01 -0.02197920 0.034736809 -0.106888458 -0.014540414
111 -6.546958e-01 -0.12317645 0.088068876 -0.192453366 -0.078879555
112 8.234501e-01 -0.02375820 -0.275500451 -0.008803172 -0.036334318
113 -6.669570e-01 0.03502452 -0.281649544 0.198792650 -0.310277055
114 4.560005e-01 0.14011284 -0.374636564 0.021383802 0.163980465
115 -1.659845e+00 0.24257633 -0.129306585 -0.116700808 -0.111337554
116 3.804429e-01 0.08814255 0.233173691 -0.146173207 0.099047225
117 1.096849e+00 -0.23207484 0.407817160 -0.021245732 0.111119345
118 -4.638902e-01 0.09239865 -0.050606877 -0.151518219 -0.311966274
119 4.152983e-02 -0.41559361 0.543365803 -0.024617076 -0.356449860
120 5.854760e-01 -0.11155948 -0.253061293 0.240139109 0.532193831
121 8.795807e-01 -0.04324340 -0.177271910 0.012372797 -0.268196111
122 1.070070e+00 0.16709860 0.020874297 -0.033179390 0.181168660
123 5.679539e-01 0.06072235 0.033704384 -0.157778125 0.118346135
124 -3.786871e-01 0.07109291 0.117549167 -0.054141878 0.178020442
125 7.433789e-01 -0.15049635 -0.027822999 -0.119973352 0.277333251
126 7.138328e-01 -0.15743038 0.075702098 -0.019192536 -0.428436869
127 7.255731e-01 -0.01212178 -0.207198874 0.040877304 0.149356923
128 3.429360e-01 -0.22107334 0.316297721 -0.007517272 0.477935562
129 -6.798964e-01 0.20147105 -0.625453697 -0.048970708 -0.222173195
130 -1.326840e-01 -0.03174736 -0.425551524 0.435852160 0.092132008
131 -4.027595e-01 0.43015316 1.244649223 0.168111296 0.109663589
132 4.221106e-01 0.34872597 -0.009595934 0.065500472 0.259581306
133 -7.212689e-01 0.05101909 -0.044185435 -0.080204702 -0.053592737
134 4.201415e-01 0.63960691 -0.233339417 0.169436360 -0.074041276
135 2.447125e-05 0.19145993 0.358223831 -0.242329871 -0.373445608
136 6.256794e-01 -0.14389544 0.196895539 0.064371862 0.266484683
137 1.488655e-01 -0.38362952 0.976660456 -0.084644993 -0.292806813
138 -1.703067e+00 -0.22988655 -0.231951134 0.047477497 -0.539662018
139 1.423456e+00 -0.03319530 -0.105202911 0.004610269 0.252339176
140 -7.526550e-03 -0.12705464 -0.421817424 0.043795697 -0.282599676

## 141	-2.715376e-01	-0.25821276	-0.207590377	-0.189638636	-0.783178038
## 142	-6.536867e-02	-0.00769344	0.953784898	-0.061930454	0.175730534
## 143	-1.896392e+00	-0.27036546	-0.331303704	-0.276968739	-0.331030089
## 144	8.321997e-02	0.26498888	0.511385267	-0.299150927	0.204057624
## 145	-1.817571e+00	0.09534605	-0.412353940	-0.043471604	-0.410888981
## 146	1.232349e+00	0.08861297	0.070625811	-0.138375498	0.361589899
## 147	1.613225e-01	-0.36643366	-0.005270273	-0.094181459	0.563575162
## 148	-1.537102e+00	0.07525710	-0.080281958	-0.040520511	-0.664455743
## 149	3.759052e-01	-0.08607920	0.169477999	0.160067606	0.186219652
## 150	-1.526897e+00	-0.39905778	0.092515392	0.090234704	-0.606737138
## 151	1.801344e+00	-0.18406847	0.194892274	0.161570172	0.239405381
## 152	8.301248e-01	-0.10464135	0.052874398	0.334084635	-0.233094787
## 153	4.548734e-02	-0.20721818	-0.168880167	0.196019119	-0.232319762
## 154	-1.577097e+00	0.05678093	0.143937816	-0.024743621	-0.553862724
## 155	1.268906e-02	-0.21612366	0.411146494	-0.279650433	-0.394299246
## 156	3.474983e-01	0.15688727	0.212114840	0.237986602	-0.121019230
##	pp_JNK.pT183.pY185	pp_Jak2	pp_Ku80	pp_LKB1	pp_Lck
## 1	0.548009750	-0.194927903	0.051690530	0.046822101	0.374366586
## 2	1.139814446	-0.203246792	0.166933971	0.096056980	0.122563381
## 3	-0.226154396	-0.491614997	-0.410859547	0.007246645	0.489625201
## 4	0.279224790	-0.240451187	-0.095967300	0.059274377	-0.259001654
## 5	0.648012891	-0.472430512	-0.544869378	0.065317632	0.301121844
## 6	-0.421245476	0.171790758	0.423272561	0.038885940	0.242629951
## 7	0.165344656	-0.262750518	-0.758841649	0.346640181	0.894477354
## 8	-0.083015121	0.130534454	-0.146546855	-0.126555123	0.172639278
## 9	-0.323066864	0.144983783	-0.077208520	-0.046632246	-0.291280722
## 10	-0.057127234	0.069790844	-0.402619485	-0.139728794	-0.204196536
## 11	-0.112660609	0.098377892	-0.008556379	-0.075489944	0.286320197
## 12	-0.142818510	0.637014830	0.394422979	0.046404358	1.712487993
## 13	0.066128516	0.291289564	0.464090481	-0.020695967	0.077563825
## 14	0.419698361	-0.598083805	-0.872252266	0.235286265	-0.132656214
## 15	0.725746155	-0.016134956	0.431044921	0.370087493	-0.137941005

## 16	0.226225603	-0.402117947	0.201793225	0.060198942	-0.157813775
## 17	-0.277771553	-0.278121923	0.283240066	0.248600102	-0.302734689
## 18	-0.269718656	-0.171434881	-0.153740789	0.086107985	-0.594153785
## 19	-0.203730000	0.059649354	0.364518308	0.055871534	0.065980433
## 20	0.269095155	0.064763211	0.031151823	-0.282671738	0.367916051
## 21	-0.354448673	-0.111584373	0.731168093	0.000000000	0.020088955
## 22	-0.350365359	0.199450120	-0.567600477	-0.228852491	0.421002270
## 23	-0.019202657	-0.303702751	0.922202279	0.053975493	-0.342177750
## 24	-0.218449478	-0.330155254	-0.539673599	0.035286176	0.260776952
## 25	-0.064175216	0.182783940	0.534723032	0.057615776	0.430604608
## 26	0.063872157	0.778748161	0.132103896	-0.255160406	-0.878389568
## 27	0.625265456	-0.123060421	0.246147590	-0.160054998	-0.169569425
## 28	-0.033131792	0.292687244	0.063025950	0.059482982	0.893691105
## 29	0.676285916	-0.486888728	-0.469461783	0.108548826	0.442936143
## 30	0.289944035	-0.080375839	-0.163473263	-0.024781715	-0.109802714
## 31	0.670542636	-0.645517242	-0.805561935	-0.344287526	0.473095789
## 32	0.309468443	-0.345148277	-0.557512874	-0.280705378	0.321090859
## 33	0.368059543	-1.134731494	-0.147395455	-0.197233339	0.835361180
## 34	0.734658604	0.042045654	-0.122878679	-0.029667869	0.734339846
## 35	0.541110680	-0.280734606	0.218738732	-0.046424783	-0.018321155
## 36	0.423382837	0.503344360	-0.738744058	-0.325593040	1.349011694
## 37	-0.440327875	0.098987365	0.258727701	0.012598168	0.137462826
## 38	-0.154087271	0.004550988	0.090135321	-0.096129113	-0.132840485
## 39	-0.259042002	-0.008521982	0.121173820	-0.095368826	-0.107989612
## 40	-0.485258433	0.639422604	-0.310095664	-0.173193851	1.162372734
## 41	-0.027914669	-0.099426784	0.788767614	0.091400442	-0.014723578
## 42	0.366702305	-0.090578276	0.510418678	-0.081705128	0.119313365
## 43	-0.259268785	0.200350155	0.412829648	-0.012345998	0.377106000
## 44	0.418777610	-0.694708726	-0.247023213	0.177244166	0.752591909
## 45	0.832928669	-1.243205510	-0.638816723	-0.500147315	0.844534104
## 46	0.107526733	-0.156528025	0.594573608	-0.050378881	0.558504552
## 47	0.612911634	-0.757424866	-0.246918541	-0.291714859	0.709702997

## 48	-0.340589672	-0.563233132	-0.129693359	-0.115076738	0.010078409
## 49	0.431583245	-0.748500059	-0.577421202	-0.075056132	0.329168587
## 50	-0.091104985	-0.084356694	-0.146766068	0.144701496	-0.321006719
## 51	-0.298923571	-0.062148014	0.144823264	-0.298617972	-0.445245518
## 52	0.473421139	-0.848971325	-0.820469139	0.157864613	0.511415531
## 53	-0.064162635	0.133329336	0.268673453	-0.291369718	0.073153881
## 54	-0.225457970	0.119666695	0.160389806	-0.138213356	0.268934691
## 55	-0.636857714	-0.456666945	0.501061249	-0.226979532	0.535728268
## 56	-0.489628646	-0.012659205	0.240259993	-0.180596212	0.386151973
## 57	0.328711700	-0.462682127	-0.485273561	0.017257692	0.922446546
## 58	0.399215640	-0.325146187	0.139938181	-0.086951776	0.408842730
## 59	-0.637231378	0.285362004	0.159071784	-0.090777246	0.566753833
## 60	-0.403488333	-0.547603404	-0.094474611	-0.247133860	-0.002258990
## 61	-0.137245130	-0.500678481	-0.025686851	0.035238769	-0.321557992
## 62	0.061550350	-0.106916788	0.368575632	-0.131502630	-0.074298988
## 63	0.213618518	-0.043052744	-0.077034422	-0.312144834	0.090855138
## 64	0.125753954	-0.697369539	-1.345034575	0.548154547	0.432647870
## 65	0.210997642	-0.198452715	-0.610017128	0.155473126	1.099927675
## 66	-0.081163458	-0.270776842	0.493850720	-0.158328483	-0.093609647
## 67	-0.064468461	-0.509911313	-0.624829342	0.628811521	0.842045138
## 68	-0.027835335	-0.078643952	-0.963874087	0.431291400	0.564009545
## 69	0.960420640	0.050709166	-0.130613979	0.127934290	0.533140878
## 70	-0.278259080	0.226470693	0.273421135	-0.080866385	-0.042198622
## 71	0.125623374	0.235354389	0.039050905	0.194489135	0.323547087
## 72	0.002958559	0.089930493	0.200189272	-0.077232327	0.570944960
## 73	-0.141565911	0.168127905	-0.003981533	-0.118060334	0.170452506
## 74	0.966192896	-0.297816863	0.244387699	-0.075971058	-0.339509638
## 75	0.183043155	-0.088143541	-0.336703413	-0.531667143	-0.259865744
## 76	0.605736992	0.107722316	-0.005935419	0.139055850	-0.072569866
## 77	-0.105925250	-0.961547908	0.000000000	-0.026493798	-0.102557657
## 78	0.490990887	-0.141542322	0.097061301	-0.146709043	0.052106452
## 79	-0.000774125	-0.008132969	-0.213798739	0.194910939	-0.183226779

## 80	-0.133601349	-0.578621989	-0.625142171	0.071473560	-0.009688624
## 81	-0.290246175	-0.013267316	-0.899226602	-1.046891190	-0.128488294
## 82	-0.808401202	-0.595431856	-1.021252747	-0.197461961	-0.863156540
## 83	0.564787666	-0.165857980	-0.261147686	0.314270877	-0.162095494
## 84	0.033973930	0.113796664	-0.204107512	0.081104140	-0.058186435
## 85	0.500594048	-0.101406584	0.151239925	-0.144722773	-0.581382497
## 86	0.049685732	-0.428042876	-0.836894804	-0.060187322	-0.048794574
## 87	-0.293796232	-1.055498073	-1.806400824	0.132259894	0.219553899
## 88	0.074731391	0.132768405	-0.151926466	-0.190545898	-0.023901034
## 89	1.023521587	-0.080825009	-0.400899485	-0.133403757	-0.355624736
## 90	-0.278823419	-0.035853014	-0.650377730	-0.105837761	-0.870176931
## 91	-0.179102417	-0.016156336	0.086942661	-0.096595680	-0.010682447
## 92	-0.228711645	-0.329007361	-0.268111849	0.001821851	0.390160843
## 93	0.001603920	-0.548685626	-0.188356095	-0.138813161	0.177451658
## 94	0.161422633	0.090528152	-1.843933374	0.048038184	0.098682705
## 95	-0.147780894	-0.199429899	-0.346953210	0.047400598	0.571617282
## 96	1.172832470	-0.006544294	-0.387574093	-0.125315449	0.194285759
## 97	-0.221780519	-0.192947472	-0.542224176	-0.176490408	0.117350715
## 98	0.193608488	0.022024566	-0.222102505	-0.345411028	0.277263586
## 99	-0.288741741	0.020668294	-0.187658047	-0.100800810	-0.435549463
## 100	0.411628396	0.139699318	0.202429600	0.066328591	-0.344478652
## 101	-0.256903420	-0.010006908	-0.285785614	-0.338779297	0.021630002
## 102	-0.456214044	0.081777725	-0.007461119	-0.111563454	-0.398369453
## 103	1.434043729	-0.228545947	0.248809761	0.144419921	-0.749883659
## 104	-0.058514452	-0.929741719	-0.221104859	0.232400433	-0.297852418
## 105	0.444490892	-0.199394980	-0.375397406	-0.269203303	-0.882076190
## 106	-0.019002178	-0.052836111	-0.135543792	-0.185471667	-0.517732183
## 107	-0.111051074	0.187683729	0.353811875	0.085494844	-0.404637762
## 108	0.111096762	0.350443097	-0.332442999	-0.177697148	0.286617367
## 109	0.056345485	0.114008630	-0.491455977	-0.311902584	0.366114752
## 110	-0.048979986	-0.051772352	-0.010714447	-0.062351974	-0.665671819
## 111	-0.020810995	-0.105307296	0.752097347	0.016138286	0.357414621

## 112	0.189720436	0.182732581	-0.452571852	-0.140474089	-0.012597398
## 113	-0.128164722	-0.001376764	-0.633719421	-0.173446063	0.714605676
## 114	-0.226300430	0.101744641	-0.147792462	-0.245198548	-0.347482528
## 115	0.042997605	-0.029478133	-0.036719489	0.005366352	0.638082776
## 116	0.310173069	-0.195223775	-0.481367325	-0.241497210	-0.152820338
## 117	0.205699400	-0.376507763	-0.112337713	-0.075315820	-0.281410052
## 118	-0.327260807	0.442468627	0.313404364	-0.046672442	0.773234834
## 119	0.746009346	-0.058229745	-1.061346670	-0.080897684	0.569191591
## 120	0.006950032	-0.024511950	-0.052419102	-0.084913192	-0.570743712
## 121	-0.237484800	-0.166271899	-0.153695377	-0.088078783	-0.199486509
## 122	0.705936567	-0.862995991	-0.452108510	-0.092884899	-0.565596015
## 123	0.017624104	0.264272117	0.497135936	-0.221212940	-0.864861753
## 124	0.105676407	0.136580621	0.103101082	-0.121510098	0.088631009
## 125	-0.093648137	-0.085011994	0.307093143	-0.049754298	-0.422602207
## 126	0.030613877	-0.110150086	-0.155898925	0.198989960	0.488417988
## 127	-0.240107771	0.049953883	0.363462167	-0.213192383	-0.018703798
## 128	0.283929649	-0.077459512	0.246639119	0.020519405	-0.270456437
## 129	-0.440634110	-0.058171545	-0.095931409	-0.373757454	-0.093015073
## 130	0.408312453	0.239316007	0.271409002	-0.228987261	0.389386355
## 131	0.142287633	0.204180960	0.125449909	-0.144107877	0.302439519
## 132	0.066023613	-0.038018298	-0.084779136	0.095857300	-0.102118051
## 133	0.119141824	0.165019868	-0.107635308	-0.099529190	1.041048997
## 134	-0.019326783	0.342107846	-0.045615002	0.098214400	0.220881097
## 135	-0.248443201	-0.192647166	-0.218525272	0.154167143	-0.368695372
## 136	-0.322740584	-0.151847852	-0.505281996	0.001852537	0.550646776
## 137	-0.209885920	0.084601459	0.252763194	0.087889838	-0.194020177
## 138	-0.188792383	-0.060978703	-0.041150554	-0.174853365	-0.239508013
## 139	-0.242074304	-0.019937502	-0.269625485	-0.107597760	-0.146984480
## 140	-0.417879783	0.109126695	-0.078740055	-0.049672168	0.255340320
## 141	-0.299875647	-0.070907950	0.674857655	-0.074364314	0.804183770
## 142	-0.160830234	0.004601174	-0.173689628	-0.269959591	-0.072776188
## 143	-0.292088503	0.065360960	-0.283578658	-0.178933648	-0.486597364

## 144	-0.158200887	-0.045767789	-0.166800098	-0.014566395	-0.025478125
## 145	-0.109617285	-0.007791104	0.003591257	-0.080083860	0.288116539
## 146	-0.621655732	0.143115954	0.405670123	-0.040958191	0.026877871
## 147	-0.190592531	0.000000000	0.226801790	0.037189681	0.150349593
## 148	-0.206120573	0.078408056	-0.076684041	-0.010991795	-0.297592506
## 149	0.378406067	-0.176030144	-0.361307201	0.136459734	-0.373299223
## 150	-0.129242279	-0.214173639	0.369345788	-0.036633590	-0.069249770
## 151	0.051102436	-0.624395779	-0.408309201	0.048485418	-0.089295115
## 152	-0.266081405	-0.131384143	0.130376155	-0.123339586	-0.253997231
## 153	0.194830617	-0.265903733	0.130787031	-0.010519202	-0.475093767
## 154	0.092547265	-0.456488777	-0.205855434	0.144138273	-0.419094996
## 155	0.215410805	-0.071181014	-0.141008351	-0.334243296	-0.343215628
## 156	-0.503756128	-0.058352214	-0.193046877	-0.196063526	0.350147771
##	pp_MAPK.pT202.Y204	pp_MEK1	pp_MEK1.pS217.S221	pp_MIG.6	
## 1	0.253328405	-0.167328738	-0.0620358540	-0.0924846350	
## 2	1.096263663	0.335460806	0.2237888330	-0.0612733040	
## 3	-0.465990211	0.408592356	-0.0439939385	0.1071789585	
## 4	0.503550284	0.372550141	0.0003669698	-0.1022445333	
## 5	1.663434967	0.301977359	1.0556545880	0.0464075450	
## 6	-1.494315258	0.049634658	-0.1316010245	-0.2544778105	
## 7	-0.211954162	-0.008557181	0.1075475865	-0.0613571565	
## 8	-0.148635373	-0.320948604	-0.0303082700	-0.0585876320	
## 9	-0.383037311	0.003223693	-0.1565389580	0.4879672310	
## 10	0.234948167	-0.187395605	0.1765036262	-0.2134548628	
## 11	-0.480699849	-0.444858243	-0.0842282985	-0.1121201925	
## 12	-0.939119198	0.423819035	0.0547183430	-0.0417799240	
## 13	1.191859627	-0.145711020	0.3065636355	0.0531686135	
## 14	1.821543695	0.743433034	-0.1046062085	0.0125126145	
## 15	-0.616566712	-0.104797071	-0.2213519335	-0.0698644935	
## 16	1.861604969	0.166948451	0.6940131555	-0.1209532765	
## 17	-0.266517911	-0.514957917	0.2252471990	0.4428290650	
## 18	-0.556505312	0.247579722	-0.0444985440	0.2702600710	

## 19	-0.529790306	0.274631790	-0.1981991450	0.0776736740
## 20	-0.702084820	-0.017025473	-0.1229509355	-0.0475501305
## 21	0.104863014	-0.474364991	0.1743758320	0.0020248640
## 22	-1.836834616	-1.071568430	-0.5577443070	0.3601693660
## 23	-0.996262382	0.332593515	-0.0066122725	0.2892757055
## 24	-0.340318044	0.546250972	0.2067435785	0.4249977125
## 25	0.018557217	0.145199413	0.1755109410	-0.1632660560
## 26	-1.123736961	-0.595192138	-0.0830334285	-0.0377536445
## 27	2.138058960	0.047552834	0.3699233195	-0.1002763225
## 28	-1.822635962	-0.054593629	-0.1229337925	0.0019809565
## 29	0.679758684	0.019330873	-0.4816806845	-0.0430853105
## 30	-0.316109597	-0.180375592	-0.2916485250	0.0546353580
## 31	1.305930328	0.516432262	-0.0213380215	0.1778169205
## 32	1.464777911	0.446640275	0.0578204115	0.0987417095
## 33	0.554798972	0.593922248	-0.1126549660	0.1247716090
## 34	0.437081199	0.217615929	-0.2764862110	0.3583288970
## 35	0.267190478	-0.309827272	-0.0228389370	-0.1158113410
## 36	0.275429867	0.434712793	-0.1129626570	0.0143006850
## 37	-0.946218243	1.111469436	0.0262620995	0.1773140465
## 38	-0.564845082	0.320011916	-0.2474230750	-0.0755404540
## 39	-0.710363034	0.267568426	-0.1517479020	-0.0999175100
## 40	-0.587784233	0.447425815	0.1095922165	0.1169241045
## 41	1.109303647	-0.234803632	0.6496794390	-0.1785899000
## 42	0.915384590	0.130802970	0.2934818555	0.0707398515
## 43	-0.005464094	-0.076186771	0.1673367630	0.1530287520
## 44	-1.141908544	0.309684827	-0.4203098615	0.0886445035
## 45	1.047314870	0.631221948	0.2215897440	0.4036902760
## 46	-0.776354056	-0.069967191	-0.1397784015	-0.0097093335
## 47	0.652176058	0.548917802	0.2818221650	0.2292225320
## 48	-0.267041836	0.312277346	-0.2650292410	0.0935620120
## 49	0.551516591	-0.253318121	-0.2746652920	0.0411784630
## 50	1.765875851	0.031769926	0.5217389425	0.0171817095

## 51	0.926094433	0.312540776	0.4517147135	0.0634893505
## 52	0.265322800	0.077101530	-0.2498056110	0.1259929250
## 53	-1.168844638	0.001228067	-0.0357198150	0.0271935940
## 54	-0.875814899	0.248257677	0.2348600520	-0.0284265800
## 55	-0.185846474	0.603056232	-0.0129007060	0.3042615250
## 56	0.121267865	0.242962399	0.2057843785	0.2209176365
## 57	-0.701301589	0.110168929	-0.1786522765	0.2338916865
## 58	-0.436809783	0.331800831	-0.0911759425	0.3654624375
## 59	-0.185095157	-0.016631018	-0.0972618240	0.2389522550
## 60	-2.049945082	0.751785332	-0.3494474155	0.1007050465
## 61	-0.023827016	0.178412673	0.1263798530	-0.1084695300
## 62	-0.277567310	0.099374757	-0.1579477990	-0.0391583010
## 63	-0.170177848	0.458180197	-0.4736607575	0.1639733075
## 64	0.017743506	0.240316920	0.5419967605	-0.1420615915
## 65	0.338384745	0.369219465	0.1827334912	-0.0595942828
## 66	-0.658350901	0.141089595	-0.3112875648	-0.1189442147
## 67	0.084045720	0.072857704	-0.0166364695	-0.2360954565
## 68	0.838370992	0.084970983	1.1918065527	0.0028514148
## 69	-0.442000505	-0.184227886	0.0865384450	0.0188737010
## 70	-0.063335535	-0.322447353	0.0300067138	-0.2168488132
## 71	0.258632732	0.215282517	-0.6174713683	0.0298051068
## 72	-0.650266030	0.078475978	-0.3369564505	0.0673114285
## 73	-0.443781311	0.320354041	-0.2621131043	0.0578820657
## 74	1.231059321	0.209351355	0.0061260370	0.3676573840
## 75	1.262625459	0.445672268	0.4431464675	0.2599541895
## 76	-0.280282700	0.234276007	0.1704368660	0.0295827880
## 77	0.408570675	1.055501870	-0.0201623805	0.1297163705
## 78	1.372439397	0.400128629	0.1260747200	0.1684347460
## 79	0.893417317	0.130968970	0.1069000615	-0.0349004995
## 80	-0.371906344	0.145605227	-0.2269186310	0.7659364710
## 81	0.476116002	0.031007704	-0.7663786260	0.0000000000
## 82	0.064019333	1.102074055	-0.0783396470	-0.2539721540

## 83	0.199511792	-0.221588908	-0.1527118195	0.4492786505
## 84	-0.462044887	0.001339073	-0.0379185082	-0.0601883913
## 85	0.423597512	0.066470201	0.1076400043	-0.2055888888
## 86	0.028007484	0.244690446	-0.4931748315	0.5501442255
## 87	1.476555338	0.593811177	0.5174674633	-0.3413020628
## 88	0.271013017	-0.021343154	0.0760461080	0.0726157680
## 89	1.135182216	-0.390846755	0.4127425390	0.1370349230
## 90	-0.241690091	-0.141550651	-0.1983188458	0.0308335113
## 91	0.817110199	0.730900966	0.4181424925	-0.1880310285
## 92	1.906032297	0.318203598	0.5481595255	-0.0640015825
## 93	0.862326204	0.731972985	-0.0959607225	-0.1909812045
## 94	1.450204379	0.130746183	0.9974344228	0.0288240437
## 95	0.785279000	0.195196938	0.1938151085	-0.1554867095
## 96	1.493039313	0.223807816	0.2929561040	-0.1626959730
## 97	0.456844634	0.149992645	0.4009185838	-0.1792163432
## 98	1.457109351	0.579761352	0.0106807645	0.0030026975
## 99	0.963765509	0.242602260	0.3806791410	-0.2325233390
## 100	1.023498689	0.420491726	0.6330998330	0.0069739880
## 101	-0.449125311	-0.296339041	-0.3138524073	-0.2144119312
## 102	0.349373347	0.120922515	0.1856292677	-0.0594127782
## 103	1.119690827	-0.201981793	0.4316865855	0.1746545955
## 104	1.604231236	0.466839611	0.4860983290	0.1598493110
## 105	0.646722827	0.345963121	-0.0708897235	0.1552932505
## 106	0.807802659	0.088109507	0.2327115587	-0.0148304003
## 107	1.811503966	0.031249661	0.4367824200	-0.1276802510
## 108	0.543994418	-0.028284328	-0.1541908605	-0.0659933785
## 109	1.157444062	0.446479909	0.0611381270	0.2573983390
## 110	0.733367382	0.396880740	0.4183613680	-0.2399394270
## 111	1.378167411	0.107685678	0.4706977835	0.0131787075
## 112	1.639760124	-0.086404000	0.1681536555	-0.0956212265
## 113	1.103141043	0.356120743	0.0731306085	-0.0850533295
## 114	1.819628157	0.074263494	0.1594373115	-0.1289459765

## 115	0.795841131	0.089018418	0.4549593435	0.0044867365
## 116	1.491377617	0.286017519	0.5675931472	-0.2558359788
## 117	1.133281112	0.093647821	0.1540755457	0.1180778778
## 118	0.027055710	1.322150306	0.4371431660	-0.1550529370
## 119	1.549175661	-0.006272130	-0.1874678570	0.0867327350
## 120	0.473384439	0.063763039	0.2043043245	-0.0088948305
## 121	1.188699664	0.198654873	0.5183408238	-0.0163008932
## 122	1.530634921	0.182487469	0.3116460575	-0.2884307385
## 123	0.467168372	-0.361609808	0.1360206015	-0.1500023535
## 124	0.322424978	0.406312505	-0.0774201180	0.0797996180
## 125	0.624061705	0.189053552	0.3918174430	-0.1215594220
## 126	0.540562617	0.064237113	-0.1048691105	-0.0569715325
## 127	-0.711022353	0.552529428	-0.1299261100	-0.1193483960
## 128	0.939399056	0.457730302	0.5144033625	0.0333087975
## 129	1.472816255	-0.280061737	0.1367339025	-0.0586526835
## 130	0.801791690	0.265282705	0.2284405895	-0.1846692405
## 131	-0.344373060	0.770002012	0.1280442675	0.1218688505
## 132	-0.973909720	0.213049381	0.1054533720	-0.0650181820
## 133	1.101698628	0.674832268	0.4237195145	-0.1497606775
## 134	0.582156116	0.481557182	0.2876083173	-0.3047356728
## 135	0.437392403	-0.011686387	0.2426063087	0.1525604407
## 136	0.185833237	0.266132356	0.4756255477	-0.1079874462
## 137	-1.248104245	-0.411115268	-0.5067989038	0.0776875443
## 138	-0.482694831	-0.821231325	-0.1432296045	-0.0008990645
## 139	-0.155314012	-0.137859315	-0.1025664555	-0.1168187235
## 140	-1.367344117	-0.242104193	-0.4562799028	0.0743845092
## 141	-1.232953872	0.001247581	-0.4723313090	-0.0410942610
## 142	0.746019905	0.006018272	0.2783116602	-0.0899939837
## 143	0.825142457	-0.288879353	0.4244823798	-0.1452444872
## 144	0.721221014	0.223836643	0.3793499210	-0.1170323310
## 145	0.727939819	0.069714382	0.3508648515	0.1622205555
## 146	-2.128417743	-0.321972315	-0.2548759460	0.2073146070

## 147	0.520698825	-0.101644255	0.1313164415	-0.1461739915	
## 148	-1.141691960	-0.142269984	-0.3492031960	0.6164890450	
## 149	0.018723113	-0.098228133	0.0641481295	0.0341141425	
## 150	-1.012009467	-0.488663358	-0.4295303792	0.3426812428	
## 151	0.596846469	0.008116064	0.2972192515	-0.2229584575	
## 152	-0.400027629	-0.877015833	-0.1864476615	-0.1874520755	
## 153	0.707964327	-0.354581522	0.2154778190	-0.0870753870	
## 154	0.935021922	0.120359039	0.1836873428	0.1611922018	
## 155	1.025781270	-0.082355844	0.3050248608	-0.0588177633	
## 156	0.626024145	0.340979309	-0.2428648445	0.1319735585	
##	pp_MSH2	pp_MYH11	pp_Myosin.IIa.pS1943	pp_N.Cadherin	pp_N.Ras
## 1	0.14814202	0.90676409	0.066699246	-0.150459562	-0.104715055
## 2	-0.38021388	0.19732799	-0.333478932	0.097271214	-0.015812458
## 3	0.10331223	2.39676028	-0.101550794	-0.171183429	0.063927350
## 4	0.16248021	0.51812130	0.112627360	0.383543653	-0.015334011
## 5	-0.35684869	-0.12112145	0.213559959	-0.050781723	0.030089005
## 6	1.21326500	0.52191042	-0.691492018	-0.250821181	0.259363054
## 7	-0.15259215	2.00432043	-0.194076452	0.911308681	0.455045407
## 8	1.20741594	-0.67090123	0.246286001	-0.237702771	0.184460641
## 9	1.23103540	-0.08588978	0.194538568	0.034600777	0.268059111
## 10	0.13323483	-1.21922987	0.376328067	-0.387714442	0.195792596
## 11	0.29673169	-0.84030418	-0.158558529	-0.474266588	0.120441434
## 12	0.04976858	0.82082289	-0.042830986	0.092746652	-0.094074459
## 13	0.44666843	-1.60622230	-0.021704193	-0.175282718	-0.247288836
## 14	-0.53036382	-0.82294091	0.135133955	0.075122667	0.077071042
## 15	0.05975767	1.30473719	0.224799566	-0.207051866	-0.027979309
## 16	-0.26931376	-2.58671510	-0.089848901	-0.428405101	-0.244650989
## 17	0.18588161	-2.08639433	-1.533838771	0.047902691	0.107163529
## 18	-0.33344905	3.24492714	-0.702690572	-0.187555746	-0.082331849
## 19	0.16290313	1.65715488	-0.593150015	-0.045245746	-0.044002426
## 20	0.07794073	-1.45694608	0.123682265	-0.219693069	0.109749175
## 21	0.29722391	0.77884473	0.478471090	-0.170738829	-0.170031503

## 22	-0.02814267	-1.77139561	0.289255135	0.127235572	0.136320954
## 23	0.32383984	-0.31118795	-0.286271140	0.122121196	-0.035950211
## 24	0.14841560	-0.68047600	0.286648996	0.145957360	0.252328522
## 25	0.06835247	-0.13340722	-0.169113891	0.051036225	-0.125776280
## 26	0.11425658	-0.55944019	-0.798635769	-0.184890431	-0.002812322
## 27	-0.15370950	3.37349851	0.564342187	-0.095628347	-0.156995763
## 28	-0.19092881	-2.40732820	-0.030997563	0.023406014	-0.057814208
## 29	-0.70651677	3.95324461	-0.198714002	0.624258284	0.559129790
## 30	-0.55451963	1.68458921	0.286113338	0.223925115	0.185447203
## 31	-0.53950017	2.06242457	-0.275137617	0.460795348	0.128174271
## 32	-0.61495230	1.27471962	-0.226209441	0.071593618	-0.192070029
## 33	-0.59734691	2.69055556	-1.039145748	0.357314620	-0.112088866
## 34	-0.56970267	2.29340179	-0.407721206	0.202216726	0.121757321
## 35	-0.60509302	3.33996747	0.150477068	-0.050654701	0.076645678
## 36	-0.06411106	-0.56075654	0.018925859	0.153572603	0.177683433
## 37	-0.01301941	-1.53944982	-0.340870809	-0.132303224	-0.017741449
## 38	-0.05673120	-0.57735275	0.502705951	-0.094453697	-0.006429313
## 39	-0.04172027	-0.71331252	0.422535955	-0.113862794	0.074532872
## 40	0.37215868	-0.61880367	-0.287702023	0.044983531	0.025627929
## 41	0.63164650	-0.31737100	0.414259618	-0.335531510	-0.263134203
## 42	-0.02334664	-1.54762757	1.021309438	-0.165894924	-0.041842802
## 43	0.69149368	-0.19294697	0.120310528	-0.259058405	-0.023275966
## 44	-0.69364041	4.51554318	-0.800706303	0.620603398	0.619256865
## 45	-0.61499157	1.18805074	-0.170019391	0.598878992	0.391518780
## 46	0.06364623	2.38144887	0.276452976	-0.128293981	0.029779830
## 47	-0.16684373	0.74569435	-0.659722082	0.081267959	-0.032234190
## 48	-0.11500662	2.48275583	-0.356092947	0.018251820	0.039995243
## 49	-0.85912126	1.04761788	-0.647555240	1.052102111	0.440577489
## 50	0.12433165	-1.41471777	-0.468973799	-0.295223638	-0.226923973
## 51	0.74061291	0.28814808	0.428429949	-0.103404183	-0.203785026
## 52	-0.54237064	4.67011982	-0.898683221	1.121234784	0.682872855
## 53	-0.20353309	-1.77715290	0.269989093	-0.007530196	0.030029598

## 54	-0.09668195	-1.15933530	-0.270708815	-0.176333941	-0.019734624
## 55	-0.33414324	2.16696676	-0.811266737	0.042883521	-0.218264465
## 56	0.40472066	0.44650246	0.453592393	-0.059917950	0.045506693
## 57	-0.60237886	3.57281236	-1.012595897	0.700956305	0.678304878
## 58	-0.56188720	4.16858788	-0.269537920	0.049509221	-0.004407734
## 59	0.35880643	-0.67444203	-0.239938700	0.117752197	0.178910210
## 60	-0.14047575	0.49211456	-0.800082246	0.188398123	0.248400425
## 61	0.21935804	0.98654593	-0.101791114	-0.205856538	0.059517623
## 62	0.20418382	1.07385133	-0.045625728	0.472045269	-0.259350133
## 63	0.30656755	0.21537178	0.149737827	0.015080258	-0.159252026
## 64	-0.53296621	1.92476721	-0.618911057	0.792072956	0.686066040
## 65	-0.19121690	5.31855450	-0.103524086	0.535822761	0.243691001
## 66	-0.24798150	0.54632973	-0.118048919	0.308036947	-0.621760975
## 67	-0.46624045	2.38557086	-0.233984544	0.107056405	0.127136871
## 68	-0.44455068	2.21643081	-0.932213175	0.531363044	1.114250651
## 69	0.31091449	0.32716765	-0.321329701	0.066157101	-0.156953131
## 70	0.47674847	0.14517596	-0.240567689	-0.023028961	-0.282671937
## 71	0.01913346	-0.78569509	-0.694008626	0.356769917	-0.037459167
## 72	0.21399292	2.53398141	-0.081743624	-0.057646235	0.062483036
## 73	0.47762091	0.55938005	0.471967895	-0.190417128	-0.312676803
## 74	-0.52728630	-0.70238504	0.004459698	-0.052976468	0.051835336
## 75	0.67467839	1.13615029	0.070067721	-0.287538507	0.012809485
## 76	0.52100570	-1.12983849	-0.127356600	-0.343009888	-0.092512755
## 77	-0.40214691	2.28308464	-0.893970824	0.421544368	0.405952588
## 78	-0.18032840	-0.17079428	0.385546860	-0.143959153	-0.186461041
## 79	-0.09404397	1.85888948	-0.452203193	-0.177433347	-0.110415006
## 80	-0.02385862	1.27900122	0.130858701	0.390056227	-0.018058770
## 81	1.80038469	-0.79587496	0.298126174	-0.860395614	-0.208526811
## 82	1.14410199	0.30598066	-0.358156524	0.151588130	0.604527871
## 83	0.03866563	2.82993735	-0.089602304	-0.003673077	0.043835808
## 84	-0.27155840	1.76989944	-0.038086406	0.102141185	-0.121357456
## 85	0.32677955	3.82043750	0.887207877	-0.109203698	-0.256854595

## 86	-0.50786428	3.04245661	-0.058717816	0.322619734	0.404337249
## 87	-0.57576659	1.23748899	-0.518477146	0.040180564	0.289232738
## 88	0.15124757	-0.37699998	-0.221428737	0.165476934	-0.038745893
## 89	-0.33297533	1.74459855	-0.423593758	-0.090343103	0.022364024
## 90	0.19031258	-1.34138258	-0.047060739	-0.469921311	-0.001602845
## 91	-0.09587826	-2.06225054	0.741741746	-0.056804124	-0.035005192
## 92	-0.64801444	1.29265083	0.470350784	0.016385702	0.027002329
## 93	-0.30056823	1.76190317	-0.304733274	0.235247840	-0.001185824
## 94	-0.60623533	0.67489826	-0.400206426	0.586908802	0.514005002
## 95	-0.21187506	1.79719026	0.080827174	-0.238073148	0.031745552
## 96	-0.45905746	3.17681536	0.544038690	0.004004190	-0.289323771
## 97	-0.12095067	-0.99695818	0.206603249	-0.440342129	-0.064802800
## 98	-0.08346852	2.87853439	0.005664304	-0.196969352	0.220261780
## 99	0.22070027	1.96106054	0.334405392	-0.378450709	-0.249442559
## 100	0.24990154	-1.78548707	-0.249794658	-0.376009328	-0.290871793
## 101	0.62255803	0.26631035	-0.106128640	-0.455118605	0.136621151
## 102	0.34547153	-1.32986224	0.127672211	-0.392327011	-0.061382568
## 103	-0.20275519	-0.85204863	0.096281890	-0.466134840	-0.262751438
## 104	-0.67090314	0.19006186	0.194640580	0.134815660	0.105910180
## 105	-0.15057227	0.75082810	-0.403431675	-0.196154772	-0.072255617
## 106	0.27428349	0.19400513	0.268843788	-0.347068207	-0.043673648
## 107	-0.27710205	-2.08300246	0.406697564	-0.330086981	-0.235023990
## 108	-0.17605681	-1.34231979	0.175666959	-0.243487019	0.174717696
## 109	-0.56995478	3.42917234	-0.327440102	0.394600109	0.045947352
## 110	0.16911498	-2.52809789	0.376353090	-0.003934738	-0.104580189
## 111	0.53720253	-1.80590645	0.243788794	-0.111750741	-0.133681890
## 112	-0.08664784	3.49055165	0.186613344	0.023775350	0.033860643
## 113	0.15994656	-1.37637783	0.827686738	0.090071348	0.020523084
## 114	-0.47228775	0.67716637	0.365368261	-0.240797965	0.047146597
## 115	-0.11506743	0.08512738	0.013880424	0.503798492	0.028962933
## 116	-0.10487506	1.77596131	0.060630371	-0.448925802	-0.057754664
## 117	0.06608946	-0.53378374	0.027876209	-0.098575292	0.031116806

## 118	0.15139401	-1.65185789	0.205547618	0.030372558	-0.222808692
## 119	-0.54635452	1.75040886	-0.266493559	1.018067139	0.213012690
## 120	0.17187368	-1.36079390	0.060630824	-0.284857635	0.080377107
## 121	-0.19720450	0.07285856	0.352771527	-0.286349335	0.074373162
## 122	-0.70585323	3.71341481	-0.375743204	-0.036051055	-0.057227411
## 123	0.12274454	-1.81466289	-0.415853827	-0.288649543	-0.150262822
## 124	-0.13319684	-0.02746484	-0.450365790	0.279244951	0.060456531
## 125	-0.14460580	-2.03291410	0.354366426	-0.209794475	-0.171498243
## 126	-0.47297692	2.02605239	-0.253750349	0.317969161	0.014579722
## 127	0.03430201	-0.74104251	-0.122536105	-0.106277275	-0.115287543
## 128	-0.16868320	-2.06676703	0.511661686	-0.256430416	-0.203515051
## 129	0.18672231	-1.91367184	-0.519872292	-0.255349200	-0.074317521
## 130	-0.20205043	-0.68620905	0.404914976	-0.132880771	0.202814950
## 131	0.08173391	-2.55017158	0.400768680	-0.243153210	-0.054341348
## 132	-0.09526429	3.34079507	-1.763433698	0.068859432	-0.028966814
## 133	-0.38363181	-2.02857946	0.137692002	0.112826090	-0.105401792
## 134	-0.21422584	1.65779803	0.623198263	-0.048850428	0.326120586
## 135	-0.21833377	2.97745043	0.357984993	0.250171270	-0.178359078
## 136	-0.04824827	2.61351008	-0.026959556	-0.269050841	0.099949256
## 137	0.24628009	0.23113172	-0.013721615	-0.293227518	0.155729357
## 138	0.85853162	0.26523562	0.113348282	-0.414844995	0.102974120
## 139	0.35940214	-1.45809723	0.118112838	0.469188114	0.093231682
## 140	0.37849308	0.58998304	0.309227213	-0.237537084	0.097178895
## 141	0.14885131	-1.36166298	0.661919213	-0.057102774	0.089300209
## 142	0.16213572	-1.32023648	0.455925536	-0.277677354	0.038114014
## 143	0.58035533	-0.97105354	0.306753610	-0.250423172	0.062141350
## 144	0.20725980	-0.94182074	0.302843245	-0.297526095	-0.065013397
## 145	0.49878191	-1.12861892	0.262980163	-0.269792178	0.010182719
## 146	0.40092349	-1.07500488	0.357742273	-0.181059922	0.127015574
## 147	0.57941961	-1.44336505	-0.083519492	0.275884735	-0.070189643
## 148	0.69214050	-1.38665672	0.172310790	0.199276178	0.206279676
## 149	0.05110306	-0.47285375	-0.090108246	0.122170505	0.279496136

## 150	-0.23082725	-0.35874666	0.122662195	-0.116081663	0.253906722
## 151	-0.16674817	2.62424372	-0.340292541	0.016917990	0.204660779
## 152	0.12300717	-0.39378256	0.149627972	-0.218878046	0.176786599
## 153	-0.26017299	-0.68686090	0.437645017	-0.313729017	0.041076705
## 154	0.17950880	0.01906826	0.355982526	0.455450244	0.224773814
## 155	0.75021530	0.84443409	0.105272393	-0.203297644	0.004903288
## 156	-0.27896861	1.65758969	0.213506190	0.292762929	0.197540156
##	pp_NDRG1.pT346	pp_NF.kB.p65.pS536	pp_NF2	pp_Notch1	pp_P.Cadherin
## 1	0.065492119	0.344083343	-0.151701398	-0.2019376580	-0.156142042
## 2	0.093086234	0.371319004	0.118286065	-0.0542531685	-0.021193046
## 3	-0.134895621	0.412485237	-0.514781820	0.1116407705	0.068744239
## 4	-0.182324601	0.128321773	0.138725423	-0.3006760223	-0.167802915
## 5	1.040896471	0.742852986	-0.266841605	-0.0080470960	-0.053983832
## 6	1.843754646	0.448980594	0.747301007	0.1706158400	0.170209379
## 7	0.437337360	-0.594626518	-0.413193003	0.4577277665	0.318825258
## 8	0.862651775	0.945579432	-0.386379056	0.4029832240	0.003278686
## 9	-0.010048473	-0.310188060	0.077420638	0.1437371870	-0.007610825
## 10	-0.508928760	0.614719842	-0.267095421	-0.1679242938	-0.086113798
## 11	0.241164444	0.332901980	-0.140816940	0.0117906665	-0.098569170
## 12	0.023319776	0.163109525	-0.010702084	-0.0628501795	-0.184092556
## 13	-0.589721140	0.003931612	0.037778979	0.5435200250	-0.250479722
## 14	0.470787106	-0.779900870	-0.147001878	0.0290426840	0.093191907
## 15	-0.158456846	0.011604299	0.458595627	-0.0192952120	-0.101645842
## 16	-0.579623697	0.956108536	-0.164957433	-0.1340132040	0.038762887
## 17	1.209130065	-0.705407095	0.784145495	-0.0452106325	-0.552429738
## 18	0.913969223	-0.217188034	-0.037050922	-0.1352714875	-0.482420146
## 19	-0.060645007	-0.161149715	0.109486114	0.0584228725	-0.118570430
## 20	-0.361344084	0.621006685	-0.271040946	-0.0745767950	0.031821614
## 21	-0.083816315	0.345620610	0.087084988	0.0065212665	0.041910447
## 22	0.422487931	-1.103575799	0.145753720	0.1151245405	1.501118090
## 23	0.012387743	0.063281314	0.116412693	-0.2325749490	0.186356385
## 24	-0.145585667	0.492501281	-0.146377606	0.2586475715	0.192786705

## 25	-0.261908874	-0.419073058	0.196846072	0.0933374875	-0.131274407
## 26	4.576286446	-0.027777821	0.028293293	-0.3671960420	-0.563464485
## 27	0.198010362	0.247532777	0.135845919	-0.4127935200	-0.302172098
## 28	-0.815564943	0.377227690	0.058555807	0.0000000000	-0.017027043
## 29	1.323782723	-0.390481596	-0.388617414	0.3299534590	-0.322659983
## 30	0.558722247	-0.535438173	-0.139883679	-0.0219044625	-0.285281049
## 31	1.978311541	-0.189520075	-0.211088655	0.0271919970	-0.106955088
## 32	0.119145965	0.570859072	-0.187010748	0.0768202370	0.003215565
## 33	1.225205149	0.106203227	-0.222196808	0.0170658185	0.268551671
## 34	1.119465675	-0.594336183	-0.135983348	0.0868560015	-0.409472049
## 35	0.005399144	-0.174255753	-0.115323672	-0.0866634385	0.233028049
## 36	0.169842779	-0.255804451	-0.210871838	0.1427062305	0.358572793
## 37	-1.213212243	0.005513157	0.015479954	-0.0005090010	-0.348147599
## 38	-0.460877097	0.186669981	-0.446318202	-0.0217265305	-0.077742831
## 39	-0.481864151	0.247339722	-0.395649253	-0.0085878475	0.039412807
## 40	-0.379353465	0.277726738	-0.178288214	0.5578611900	0.049363277
## 41	2.149144964	0.321612063	0.275086155	0.3358978215	0.546371651
## 42	0.786979436	1.015320510	0.440265821	-0.0580178350	-0.041984716
## 43	1.610426337	0.253112041	0.034950641	0.0053443725	0.478617699
## 44	0.443853023	-0.561128220	-0.151526812	0.3395411650	0.172785714
## 45	1.144502067	-0.429457006	-0.117867607	0.1058012315	0.263373904
## 46	-0.478030789	0.431174590	0.344732471	0.0857710350	-0.157780619
## 47	0.870166652	0.059503113	-0.047528883	-0.2207541315	0.126138333
## 48	0.744603060	0.144277790	-0.234657767	0.4557995545	0.089311934
## 49	0.268619103	-0.504605696	-0.488360699	0.6000249925	-0.406575046
## 50	-0.944177722	0.129434853	-0.200844951	-0.1164231820	-0.233862317
## 51	0.365382871	-0.545908303	-0.153486214	-0.1868106480	1.003653016
## 52	0.761780605	-0.619460517	-0.650626639	0.5496531115	-0.176226987
## 53	-0.539116941	0.236303367	-0.240187295	0.0281186975	-0.136434101
## 54	0.613024911	0.152637095	0.034054586	-0.0803322035	-0.459199024
## 55	0.539298383	0.188867387	0.489097709	-0.4825597635	0.101455458
## 56	3.282248238	0.489932006	-0.020029354	0.4689941510	0.591440594

## 57	0.604567389	-0.067446568	-0.153530267	0.5492936170	-0.016189741
## 58	0.442470327	0.273693734	0.375653132	-0.1715303350	-0.047145689
## 59	0.067587074	0.095909224	-0.158086312	0.5603975425	0.142122445
## 60	-0.856940957	-0.681027717	0.060908983	0.1132169420	-0.013144065
## 61	0.580460420	-0.500564469	-0.189797479	-0.0968843540	-0.017740297
## 62	-0.233318675	-0.312461051	0.536907672	-0.3240833100	-0.415481141
## 63	-0.685528988	-1.502475416	0.991410238	-0.2474925675	-0.225093355
## 64	0.760816192	-0.235379576	-0.239015334	0.3791375945	0.617539055
## 65	0.142526989	0.035838133	-0.321047632	0.4383207727	0.718422025
## 66	0.155965641	0.490023479	0.814012502	-0.3779555638	-0.597234658
## 67	1.277019800	-0.091839479	-0.221961243	0.0051985705	-0.033576557
## 68	0.877786236	-0.504331346	-0.465980618	0.6406441493	1.473261723
## 69	-0.456137249	-0.245279086	-0.257153623	0.0003446885	-0.005998144
## 70	-0.796187894	0.439264141	0.112112504	0.1047895662	-0.156148479
## 71	-0.961092256	-1.983655846	0.276958468	0.0364571233	-0.190584416
## 72	-0.557700119	-1.318307713	-0.040303360	-0.0965014440	-0.308502486
## 73	0.053931072	1.289316956	-0.197773936	0.6340168363	-0.117817733
## 74	-0.104986066	-0.161408869	0.604107997	0.1085664665	-0.806113192
## 75	3.752681857	0.566822906	-0.108227414	0.0592795640	0.301355914
## 76	1.338340363	0.789808023	-0.105310745	-0.0607260815	-0.021837323
## 77	0.945904410	-0.095106166	-0.144490779	0.2901108810	-0.069479980
## 78	0.638185872	0.309051650	0.076783303	0.2398429835	0.538216961
## 79	0.468631252	0.364695388	-0.074541243	-0.1169533880	0.000000000
## 80	2.406469432	0.020021120	0.006498690	0.4729332500	0.148568742
## 81	1.395124049	-0.104859217	0.142867226	0.4517002845	-0.860794192
## 82	0.738841350	0.089029463	-0.391161231	0.1746780545	-0.489226050
## 83	0.599912662	-0.598037564	-0.428165796	-0.0325560900	-0.329075693
## 84	-0.092061896	-0.237388639	-0.410584235	0.0330385102	-0.190886994
## 85	2.607996347	1.105335619	0.090030114	-0.0264485913	0.092228669
## 86	1.087816669	-0.640014870	-0.144563768	-0.0042777150	-0.839372235
## 87	0.196139681	-0.517598638	-0.639846748	0.4104325002	0.245283314
## 88	-0.321202224	0.211738044	-0.039709098	0.0433016755	0.112067390

## 89	-0.196126205	0.692693191	-0.108404240	-0.1871266965	-0.331783477
## 90	1.555732375	0.972673727	0.226300188	-0.0973537617	-0.247018720
## 91	1.630146258	-0.043995930	-0.075782211	0.0394194490	-0.189082612
## 92	0.545244750	-0.115180680	-0.023690280	0.0492863450	-0.080363658
## 93	0.483762849	0.165779576	-0.174231594	0.2027635100	-0.351162952
## 94	0.740309299	-0.212932123	-0.806740632	0.3191536757	0.273879907
## 95	0.423468960	-0.131331464	-0.169254356	0.0044231935	0.111248816
## 96	0.549880971	1.343047574	-0.159862100	0.1029939655	-0.015200243
## 97	3.385307634	1.282467077	-0.280832340	0.1291974197	0.112415400
## 98	0.697278302	-0.242445870	0.161494007	-0.0672438520	-0.187146691
## 99	1.397608266	0.345822632	-0.268675377	-0.2602290705	-0.208282202
## 100	-0.980198124	0.233435458	0.194586301	0.0692430875	-0.441090003
## 101	0.165645031	0.485134338	-0.061864977	-0.3572620973	-0.069374995
## 102	0.091100062	0.406788289	-0.032337325	0.1051479777	-0.252592127
## 103	-0.673205107	0.507094571	0.796020181	-0.2584026110	-0.152800018
## 104	0.706768202	0.199494646	-0.087552987	0.1064270655	-0.190215597
## 105	0.313294425	0.472976622	-0.185658915	-0.1564519170	-0.779766787
## 106	0.905150142	0.911509009	-0.182933344	-0.0087617122	-0.263831126
## 107	-0.129612666	0.138289678	0.326806478	-0.1311007165	-0.455972537
## 108	0.122346353	0.132276049	-0.212971315	0.0890067620	-0.047337302
## 109	0.617359085	-0.060690563	-0.231522970	0.1707056225	-0.241522748
## 110	-0.373829396	0.156562305	-0.229925392	0.0051567815	-0.183377568
## 111	0.640435905	0.895950579	0.119332294	0.1035787350	0.105303603
## 112	0.437858338	-0.188151681	-0.229272940	-0.0308243200	0.007244394
## 113	1.090765476	-0.465811882	-0.029399272	-0.1660879300	-0.131609248
## 114	-0.089270225	0.253020787	0.342343274	0.0289235730	-0.231843608
## 115	0.618978498	0.457988154	-0.237497516	0.4557181345	-0.064589790
## 116	0.453927071	0.529537208	-0.593312919	-0.2754152667	-0.187492046
## 117	0.333730210	0.789162343	0.080325517	0.0299176418	-0.210748733
## 118	0.491826254	0.146936625	0.064376499	-0.0528719395	0.342873482
## 119	0.381711445	-0.144767203	-0.465802681	0.5628480485	-0.245269767
## 120	-0.500833550	0.911824711	0.233786526	-0.2056986995	-0.141608587

## 121	0.876710361	0.091322989	-0.211370806	-0.2772094972	0.005024992
## 122	1.109670584	-0.017753118	-0.402615173	-0.3752460930	-0.157741207
## 123	-0.369835594	-0.009052348	-0.260119795	-0.1120858100	-0.342067891
## 124	0.262974901	0.429739588	0.053431812	0.2804107435	0.535932365
## 125	-0.879778871	0.502607440	0.528562865	-0.0225691875	-0.062585491
## 126	0.282707949	-0.112381478	0.073743380	0.1859110380	-0.413683159
## 127	-0.426304295	-0.045502231	0.210484800	-0.2287677835	-0.270416129
## 128	-0.110230027	-0.016612126	-0.179047745	-0.3928200370	-0.483248717
## 129	0.904875411	0.478913496	-0.099912466	-0.1109763100	-0.434999792
## 130	0.934498373	0.054164628	0.029727781	-0.0693437930	0.156757281
## 131	-0.262339011	0.435808791	0.255475748	0.1173832850	0.353534504
## 132	0.208738382	-0.332125430	-0.011520515	-0.0718389215	0.177818004
## 133	0.201285649	0.326501003	0.036771076	0.2885965520	0.143971093
## 134	0.995265532	0.231580752	-0.084616328	0.1287157127	0.831872105
## 135	1.387373073	0.106122297	-0.163021237	0.3619446873	-0.429616344
## 136	-0.263920515	0.800470939	-0.312907269	0.1049605308	-0.014050670
## 137	-0.210839711	0.025412656	-0.124699744	0.0683058603	-0.086716695
## 138	0.625321594	0.548299416	0.134897808	0.0605974975	0.103384601
## 139	-0.181203575	-0.572322417	0.223442148	-0.0138978845	-0.104989038
## 140	-0.842699230	-1.063777610	-0.239419223	0.1689170332	0.144660385
## 141	-0.264643087	-0.406078685	0.433430158	0.2928889660	-0.046045936
## 142	-0.255339645	0.864017833	0.001200822	-0.1477497067	0.034860369
## 143	1.415670374	0.369737339	-0.065498978	-0.0422297602	-0.042666256
## 144	0.555511896	1.461729626	0.093952213	-0.0837382480	-0.223576302
## 145	1.134415692	0.413724608	0.059918772	0.3245770905	-0.003500178
## 146	-1.075145606	-0.166643812	0.192587323	-0.0769237005	-0.028645878
## 147	-0.121477942	0.407384161	-0.004896541	-0.0462126180	-0.140290756
## 148	-0.174299280	-0.628272786	-0.268531975	0.2468213900	0.081779656
## 149	-0.576873383	-0.082569344	-0.404638434	0.1848461165	-0.046850940
## 150	1.543307741	0.128665351	0.297237204	0.7210421348	-0.031686778
## 151	0.105893487	0.236546665	-0.256564605	0.0300297795	0.195659187
## 152	-0.173788443	0.145628869	-0.154557734	0.1965845585	0.142846455

## 153	0.223612450	0.520234892	-0.324642236	-0.1310880340	-0.001449168
## 154	2.153732585	-0.348987323	-0.464101664	0.1667163098	0.124779079
## 155	0.642746288	0.554339722	-0.188537446	-0.2185001213	-0.273745403
## 156	0.373546545	-0.578173285	-0.351816530	0.0858922700	0.149110782
##	pp_PAI.1	pp_PARP1	pp_PARP.cleaved	pp_PCNA	pp_PDCD4
## 1	-0.3784502550	0.05193760	-0.073556520	-0.1763160220	0.545427032
## 2	-0.4280574920	-1.17510577	-0.252850085	-0.1001415460	0.081291564
## 3	1.0890950735	-0.07870963	-0.452546128	0.1834398395	-0.351412271
## 4	0.4379381057	-0.01174822	-0.046733044	-0.2083068553	-0.621905752
## 5	1.0825357930	-0.34477200	0.094212567	-0.1742236180	0.702707722
## 6	0.4092204065	1.13234942	0.253649436	-0.1022555275	1.011081252
## 7	-0.1064052185	-0.78669137	0.209376705	-0.0551004365	0.107422853
## 8	-0.1836811860	0.67357964	0.383514607	0.1760851850	-0.086956946
## 9	0.4267296970	0.66055500	0.782682162	0.3404863500	-0.240434382
## 10	-0.1596047818	0.15719222	0.078401563	-0.0365133797	0.235333366
## 11	-0.5461254035	0.30736934	0.066852593	0.0994754325	1.552395139
## 12	0.6458845400	0.50316708	0.050288895	0.5465376160	0.679501211
## 13	-0.0490812195	0.23379666	0.051057229	-0.2735012645	0.893260628
## 14	2.0642845515	-1.47506212	-0.018255388	-0.0664669865	-0.620943604
## 15	-0.2741960585	1.58882527	0.360368529	-0.0700853265	0.840392720
## 16	-0.0398310035	-1.39019455	-0.290703548	0.0684408805	1.080181690
## 17	-0.4627231830	-0.85685563	-0.163750386	0.3875025620	0.000000000
## 18	-0.4597378710	0.41701528	-0.092493080	-0.0415300380	-0.670155026
## 19	-0.3524914990	0.43579270	0.134742994	-0.1281410840	-0.269098688
## 20	-0.3983281275	-0.41744146	-0.035009910	-0.1689227945	-0.128045603
## 21	-0.7027101460	0.22098118	-0.045502715	-0.0288740880	-0.273072291
## 22	0.0584284240	0.92725053	-0.007033065	0.8022045710	-0.032430819
## 23	-0.2250532865	-0.01586613	0.022435132	0.1233235975	3.150131541
## 24	1.5528966225	0.58334718	0.405769084	0.2432591775	-0.788182257
## 25	-0.8124387390	0.82324009	0.129780068	-0.2553981030	2.153206968
## 26	-0.6535417625	-0.10841565	-0.217070043	0.0578864045	-0.364715305
## 27	0.9134315165	-0.36509427	-0.041005520	-0.0784321865	1.293409004

## 28	-0.5080952945	0.28271367	0.046727370	0.0595016865	0.302402357
## 29	-0.1847531065	-1.61144649	0.645562683	0.2957559275	0.749764444
## 30	-0.0420438270	-0.76447390	0.772848746	0.0051409720	0.007164296
## 31	1.0498785545	-1.52834291	0.559109797	0.3860373675	-1.464713018
## 32	0.3703449145	-1.54759320	-0.658132656	0.2845392175	-0.757178474
## 33	0.0166073480	-1.57103211	-0.356282106	0.2011892820	-1.464750079
## 34	-0.4382840630	-0.99678052	0.180948465	-0.0350161910	0.782989087
## 35	0.1126429920	-0.95844312	-0.042910841	-0.0805309140	-0.289127552
## 36	-0.3701915840	0.65753531	0.126423087	0.0285199990	1.441597403
## 37	-0.3931632055	-1.79443469	-0.105007337	-0.0472126375	-1.704983491
## 38	0.2404348310	0.49409781	-0.026585692	0.3953986820	-0.110400581
## 39	0.2736909300	0.50584706	0.000000000	0.3897317200	-0.085504146
## 40	-0.3291770065	1.18222521	0.315219896	-0.1484440075	0.341268811
## 41	-0.3981141950	0.77044940	0.022029123	0.1406912250	0.645213550
## 42	0.2815072685	-0.41195801	-0.198648788	-0.3696352995	0.051157038
## 43	0.8029892490	-0.13832131	-0.015113722	0.1675861990	0.652481957
## 44	0.2662697425	-0.51614444	0.514360680	0.2848703035	0.223384334
## 45	-0.0973139300	-1.83651588	-0.248130165	0.6906495740	-2.256929729
## 46	-0.6476990505	0.81619172	0.113859726	-0.1755146495	1.754841212
## 47	1.4434649820	-1.39428208	-0.553870844	0.0000000000	-2.948017574
## 48	-0.2065621910	-0.63235590	-0.429879790	0.3367922770	-2.518018813
## 49	0.3216027290	-1.73405697	0.348509022	0.2311734400	0.386938450
## 50	-0.0009800285	1.37523302	0.229770156	-0.1542189515	3.519544209
## 51	-0.1208692975	-0.02472374	-0.139060830	-0.0572650855	-0.314517257
## 52	-0.3846456400	-1.79607366	0.588113149	0.3982128280	-1.336441548
## 53	-0.4027974260	-1.05778285	-0.243348055	0.4844900840	-1.308138063
## 54	-0.1882241550	0.26431500	-0.051197325	0.2430818040	0.944904411
## 55	-0.8682788130	-1.19467912	-0.509838591	0.2680946710	-2.815599987
## 56	1.2851154485	-0.21033109	-0.128176978	-0.2608979295	0.600343369
## 57	0.0059994435	-1.06098231	0.402004598	0.2600645025	-2.108073398
## 58	0.1137631385	-1.09083861	-0.040261940	0.0302021115	-0.810039914
## 59	-0.8262139210	-0.21943489	0.000000000	0.4186395830	-1.236713292

## 60	0.7007792755	-0.29831703	-0.240015177	0.4569151975	-3.372735785
## 61	0.3286697020	-0.13093501	-0.517254608	-0.0711748790	-0.037237658
## 62	-0.3526580700	0.10666771	-0.249589342	0.8862859150	-0.776064645
## 63	-0.3411821315	0.29299134	-0.009913310	0.6185559415	-0.194909021
## 64	0.6594899405	-1.10202900	0.468292569	-0.1575328665	-0.442689146
## 65	0.1616534132	-0.93987091	-0.127894936	-0.4701475307	0.142532513
## 66	-0.7380926817	-0.06247048	-0.780818577	-0.1871116677	-0.578209778
## 67	0.2290607595	-0.78923178	0.252834970	-0.4894014495	-0.442434155
## 68	0.5138384277	-0.94814487	0.028933313	-0.2470844622	-0.089649173
## 69	0.0521763670	0.09184561	-0.178319093	0.3707046340	0.947515935
## 70	-0.4238565042	0.27011877	-0.088588912	0.2154815737	-0.308421622
## 71	0.1527090848	0.21750250	0.001412911	0.1812441328	0.229917778
## 72	0.0145811465	0.40232973	0.146477552	0.2971648525	1.025787014
## 73	0.3410884878	0.30506471	0.060076989	0.0091126407	-0.632928384
## 74	-0.3792412430	-1.10686087	-0.215288407	0.0000000000	0.601826301
## 75	0.1248624845	0.48698730	-0.063664364	0.3385117205	1.011235228
## 76	0.5584819280	0.31927807	-0.067081987	-0.0514828080	1.177904963
## 77	0.6246118255	-0.90220939	-0.084388610	-0.0487916835	-2.870133372
## 78	0.1300908650	-0.46105229	-0.135810440	-0.3361708280	1.162276303
## 79	-0.2910113175	0.04881987	-0.011740680	0.0547084765	0.945235824
## 80	2.8043001160	-0.07336778	0.032690781	-0.1447685470	-1.133760295
## 81	0.9144683355	1.30689152	0.309988645	0.8933579915	-0.877526206
## 82	0.2581856375	0.65060883	-0.340499874	0.2370752935	-0.206315488
## 83	-0.1840004885	-0.49214080	0.023981658	-0.3236907945	0.678574926
## 84	1.9854867497	-0.40735075	-0.079033890	-0.2602408813	0.087650554
## 85	1.2096001602	0.26152351	-0.233030478	0.0549680763	-0.525836042
## 86	0.8186554895	-0.43597645	0.193825759	0.2382123545	-1.149492048
## 87	0.2792898832	-0.85603329	-0.485123964	0.0333102952	0.206751854
## 88	-0.5099522910	0.04648891	-0.023971655	-0.0783867750	0.042587690
## 89	0.0398493100	-0.09834927	-0.134727745	-0.1313746000	3.236453171
## 90	-0.6786851038	0.33821437	0.088375088	0.2175602523	-0.393983919
## 91	0.7391589555	-0.37697649	-0.057331400	-0.2752458705	0.704652687

## 92	1.2681685905	-0.97052874	0.055154810	0.0198424495	-0.900592048
## 93	0.1348783295	-0.39328348	0.263039527	0.1296544595	-0.739377494
## 94	0.1298331058	-0.94237860	0.656539942	-0.1520359112	-0.649950118
## 95	0.0592983885	-0.04667506	-0.060980017	-0.1259383665	0.276349369
## 96	0.4654307630	-0.49631120	-0.350769592	-0.2254161930	-0.195231919
## 97	0.1299456468	0.48244682	0.100180426	0.4496380307	0.579613558
## 98	-0.0887237665	-0.82562286	-0.208119722	0.2146838855	0.117713340
## 99	0.7203698700	0.20752085	-0.136515043	0.0843115250	-0.167869251
## 100	-0.4868370360	0.33204803	-0.107188075	-0.0757209030	0.896943336
## 101	-0.4847141652	0.50544962	0.426092433	0.3964931087	-0.345881093
## 102	0.0221024208	0.12409465	-0.081638265	-0.1842675353	0.995705048
## 103	-0.3698793115	-0.08541263	-0.108354354	-0.3042945605	1.588450537
## 104	1.5876738510	-1.66209598	0.250178035	0.0171356690	-1.165551518
## 105	0.3583145285	-0.46229405	-0.156343867	0.2996602125	-1.462621973
## 106	-0.0039831982	0.06474668	0.061542716	0.1738919418	0.430713462
## 107	-0.8524453290	0.40156909	-0.074132508	-0.3658447530	0.510643894
## 108	-0.5929374185	-0.20163363	-0.189709392	0.0875208855	-1.019943615
## 109	0.2452509410	-1.58596267	-0.368226597	0.2392490290	0.002453206
## 110	0.1655659350	-0.07262070	-0.027850191	-0.1398700320	-0.562066299
## 111	-0.0197189435	0.97736981	0.163952258	0.0416491755	0.606510953
## 112	0.1212273745	-0.23729705	0.202258117	-0.0992760775	0.270354728
## 113	2.5100734265	0.66641286	0.046791501	0.2295077155	0.069420187
## 114	0.0603098545	0.13047642	-0.183912582	-0.0579857905	2.065609998
## 115	-0.1654949665	0.01680303	-0.037450534	-0.1223019915	0.355458437
## 116	0.6188119912	-0.17424113	-0.011833234	-0.0413731317	1.297427506
## 117	-0.2906864612	-0.19117886	-0.104939786	-0.0112549142	0.703998428
## 118	0.0172948380	-0.11544314	-0.253840023	-0.1981561590	0.370232279
## 119	0.5487402870	-0.74242907	0.442866550	0.4624605330	-0.642473518
## 120	-0.5864957985	0.03378612	0.226231961	-0.0278564335	0.339097052
## 121	0.4267582697	0.02140825	0.073458113	-0.2598716803	-0.195604600
## 122	-0.3343681715	-0.61056716	-0.099626265	-0.1465278905	1.242494174
## 123	-0.7653555715	0.28902703	-0.037079804	0.3091458735	1.041612712

## 124	-0.8541451730	-0.28182688	-0.047385667	0.0000000000	-1.169564492
## 125	-0.2557833260	0.48845168	0.091341057	0.2525549710	-0.540716548
## 126	0.0801095255	-0.84996908	0.133350056	-0.0695273725	0.273903713
## 127	0.6295925130	0.03350787	-0.199128232	0.0957505520	-0.234497057
## 128	0.6300526755	-0.33229222	-0.279108325	-0.2367447895	-0.164029298
## 129	-0.4152975535	-0.78696176	-0.489674259	0.7838615355	0.141567415
## 130	-0.6104830115	-0.25880358	-0.063486838	0.0786692535	-0.024577884
## 131	-0.2920533615	0.63165671	0.267883822	0.2721227835	-0.344423137
## 132	-0.6176106930	-0.16590071	0.328279414	0.1344922160	0.758199911
## 133	-0.4487226395	0.05739250	0.038155234	-0.0221728145	-0.110537669
## 134	-0.2465640048	-0.24104534	-0.406355827	-0.4097609648	-0.027081085
## 135	0.4956564988	-0.61926320	0.113116747	-0.2488458783	-0.259907950
## 136	0.2336286697	-0.06094008	-0.200219534	0.0978138968	-0.571676445
## 137	0.3992188453	0.29083285	0.150366738	0.4216911493	-0.307941969
## 138	-0.4988910025	0.54099361	0.351886688	0.5377849505	0.801280274
## 139	0.1103495735	0.42070997	0.379053759	0.4291756065	-1.348842778
## 140	0.3509721993	0.33100239	0.209620261	0.1979984392	-1.326856635
## 141	-0.4439045640	0.41534918	0.054998074	0.1181208130	-0.251184166
## 142	-0.2734340117	-0.01841834	0.087879958	0.0105909643	-0.582021120
## 143	-0.4908437063	0.41311531	0.152554945	0.3088975087	0.674450261
## 144	-0.3902906310	0.12508526	-0.033460892	0.2608280040	0.354484376
## 145	1.0254356385	0.47589100	0.001442802	0.2504002305	1.048244031
## 146	-0.4831974990	-0.14032069	-0.015468617	-0.0583842700	-0.576928568
## 147	-0.6988229365	0.91753973	0.098053179	-0.0390326595	1.338552144
## 148	0.3710665240	0.44629453	0.377008470	0.1622026100	0.032638638
## 149	0.6737342615	0.10500695	0.153463062	-0.0850416635	-0.677666281
## 150	0.3001517297	-0.03031761	0.073316331	0.0379628348	0.407358105
## 151	-0.2619293045	-0.33321681	0.100019844	-0.2461953245	0.204113848
## 152	-0.5363510565	0.17316312	0.169601898	-0.0279570905	0.946313803
## 153	0.2279887360	-0.02458501	0.161626323	-0.0048627150	-1.110316634
## 154	1.5086788888	-0.26044608	0.238449037	-0.2997524963	0.461161246
## 155	-0.1554610292	0.16869349	0.061188262	0.0002140207	1.290539464

## 156	0.9328594995	0.74805182	0.217436696	0.1548740755	-2.213978969
##	pp_PDK1	pp_PDK1.pS241	pp_PEA15	pp_PEA15.pS116	pp_PI3K.p110.alpha
## 1	-0.073717985	0.043974623	-0.106972959	-0.138167463	0.1474327870
## 2	-0.026898502	-0.111387103	0.284931659	0.013886576	0.1869805220
## 3	0.334506826	0.395030620	0.357500510	-0.025773093	0.2529036775
## 4	0.171502080	0.164453999	0.933673120	0.082815584	-0.1597834083
## 5	0.197561096	0.259287971	0.375866822	-0.093266344	-0.0350432310
## 6	-0.295321923	-0.521944112	-0.462555763	0.089166342	3.1274801175
## 7	0.012165616	-0.421037791	-0.297897270	0.515486251	-0.0243185195
## 8	0.004830304	-0.021978115	-0.236123811	-0.202027385	0.1179072200
## 9	-0.285044067	-0.557662469	-0.269286416	0.014540104	0.0183505490
## 10	0.261849790	0.503262178	-0.002083921	-0.381420485	0.2498180752
## 11	0.188393540	0.308971834	-0.119928279	-0.190400897	-0.0069707955
## 12	-0.071276108	-0.149009251	-0.248569178	-0.015008847	0.0239922430
## 13	-0.552159000	-0.297723113	0.047179412	-0.321299907	-0.02473331785
## 14	0.262307613	0.457675659	0.417739309	-0.073830365	-0.2408451745
## 15	0.282260134	0.355285907	0.212275322	0.032469399	-0.0554970105
## 16	0.010822712	0.279307258	0.747819664	-0.021393164	0.1347291065
## 17	0.483896038	0.817414349	1.116968289	0.159800026	0.2733812130
## 18	0.287272043	0.300318572	0.312811206	-0.059685695	0.1754817850
## 19	-0.028328545	0.084512010	0.293468683	-0.208093454	0.1237653410
## 20	-0.342661157	0.091206032	-0.168049625	0.043686695	0.0917044345
## 21	0.018468638	0.214539626	0.242795856	0.080107515	-0.2650403660
## 22	0.077766613	-0.202717619	0.306655291	0.138370761	0.1246684460
## 23	-0.131645453	-0.142473346	-0.744467070	-0.071459396	-0.5666546975
## 24	-0.239301587	-0.573297240	-0.083185781	-0.039451966	-0.0050770875
## 25	0.082120381	0.335625579	0.148475915	-0.042280953	-0.2607034930
## 26	0.144973952	0.195252075	-0.153782727	0.101124671	0.3624192745
## 27	-0.332473105	-0.064112632	0.221318586	-0.078747282	-0.0503769525
## 28	0.106683833	0.109271311	-0.355905116	0.021255184	-0.0576590615
## 29	0.013485923	-0.491674318	-0.168203863	0.633246425	-0.3308856145
## 30	-0.155021185	-0.184066032	-0.125171121	0.377891703	-0.1984057630

## 31	0.609774548	0.308732083	0.284379428	0.567904590	-0.1691420805
## 32	0.265561200	0.216040628	0.109054513	0.124325644	0.1296907505
## 33	0.054550843	0.123105429	0.665396437	0.273495003	0.1322280990
## 34	-0.169705081	-0.160185893	0.155093216	0.258637585	-0.1668012300
## 35	0.121633994	0.344702577	0.467866324	0.231774677	-0.1967713880
## 36	0.251946191	-0.238637993	0.075140378	0.243680625	-0.3699030470
## 37	0.396011477	0.899222129	0.176664819	-0.308743585	0.3064143565
## 38	-0.019307557	-0.002778138	0.037519538	0.037559502	0.1526802780
## 39	-0.155013439	-0.080162103	-0.028767905	0.000191844	0.0851171060
## 40	-0.296058987	-0.258352001	-0.256435265	-0.120894251	0.4537609025
## 41	-0.271967296	-0.058332380	-0.058215006	-0.187529568	0.0262930660
## 42	-0.162676316	0.048606828	0.353666393	-0.003014363	-0.1670907205
## 43	-0.087993500	0.179403518	-0.156230115	0.038988465	0.0271197090
## 44	0.077208146	-0.441097515	0.243986246	0.595974787	-0.1997997755
## 45	0.418519244	-0.142983950	0.592569454	0.681089813	-0.5632896030
## 46	0.001797558	0.190965197	0.036399020	-0.153570567	-0.1332647055
## 47	0.160911464	0.094827520	0.548145952	-0.514353663	0.0267160040
## 48	0.507235064	0.170838270	0.494957347	0.089710667	-0.0266786330
## 49	-0.129297258	-0.705937350	-0.231535279	0.648753029	-0.3913309340
## 50	0.002494133	0.280730220	0.263583299	-0.301696756	0.0537163195
## 51	-0.215046477	0.321168471	-0.123665014	-0.385559129	-0.0684467105
## 52	-0.200343426	-0.756092001	-0.205653780	0.335733339	-0.3301184520
## 53	-0.071375713	0.073075279	-0.299594148	0.263661877	-0.0281585830
## 54	0.266223314	0.625164900	-0.252526225	-0.043608365	-0.2837734880
## 55	0.320798819	0.123666143	0.506485880	-0.113311473	0.3285291830
## 56	-0.440526635	-0.306900224	-0.018177359	0.028154050	-0.2125139995
## 57	0.293789105	-0.518719817	0.164596775	0.594881642	-0.2982637445
## 58	0.087668878	0.074369373	0.377877527	0.076950153	0.0802284315
## 59	-0.165616975	-0.533682402	-0.232942078	0.161614529	0.0624201280
## 60	0.567049878	0.488746849	-0.098319217	0.242826102	0.1335059225
## 61	0.175273615	-0.064638363	0.218177262	0.174986705	0.3792158660
## 62	0.169721132	0.275143967	0.066399404	0.409812153	0.2962028480

## 63	0.153099839	0.084392963	0.228214309	0.094414525	0.3302440695
## 64	-0.025618181	-0.752358998	0.187262420	1.226359850	-0.3243169475
## 65	-0.355220793	-0.538160936	0.234679417	-0.053219320	-0.0998905902
## 66	0.128029686	0.135796562	0.015144644	0.393511878	-0.0199242888
## 67	-0.104330461	-0.243773420	0.029390130	0.012579969	-0.3362521535
## 68	0.084079706	-0.283725561	0.598050031	0.252010713	0.1023061142
## 69	0.009504792	0.140378300	0.559494397	-0.184064853	-0.0003446885
## 70	-0.070874744	0.214190481	0.324295228	0.135218531	0.2680970202
## 71	-0.143560565	-0.070731820	0.158897991	0.567688952	-0.1823798758
## 72	0.032670095	0.322580873	0.169861103	-0.113433406	0.1645565940
## 73	-0.477179750	-0.294610221	0.095806094	-0.161404548	-0.1948680288
## 74	-0.131590004	-0.125290301	0.206275054	0.127695186	0.4148714840
## 75	-0.506505201	-0.504745042	-0.445912655	-0.066513049	-0.1031949695
## 76	-0.217602168	-0.323738639	-0.521693420	-0.140553817	0.1253980710
## 77	0.307295616	0.217855908	0.158241155	-0.002610754	-0.0061678525
## 78	-0.578433176	-0.493578572	0.127578879	0.003703222	-0.0773240600
## 79	0.056327146	0.370608647	-0.003948321	-0.188202991	-0.0121754065
## 80	-0.374760788	-0.879310427	-0.383027405	0.058113160	-0.3553419600
## 81	-0.357064454	-0.166136413	-0.672128369	-1.033146529	-0.1978179870
## 82	-0.246090947	-0.297120135	0.145158381	-0.443744513	-0.1475398870
## 83	-0.358399615	-0.296945423	0.180249700	-0.225136322	-0.1345805980
## 84	0.090687790	0.220817151	0.051765062	-0.063572202	-0.2551593268
## 85	-0.276224311	0.055913687	0.172285804	0.182225242	-0.2697006813
## 86	0.221417303	-0.210015514	-0.101001703	0.271927572	-0.2108979205
## 87	0.155010638	-0.172853868	0.330731898	0.029951119	0.2189733282
## 88	0.000892932	0.143019998	-0.596602176	0.207785885	0.1250651700
## 89	-0.040881491	0.156131174	-0.474108876	0.045825322	0.2129339060
## 90	0.322808542	0.376542360	-0.129142080	-0.207856054	0.3810172453
## 91	-0.080441203	0.133813308	-0.257673876	0.210459449	-0.0203740195
## 92	0.013479880	-0.199695472	-0.146252503	0.180939474	-0.0110309575
## 93	-0.281266430	-0.352854314	0.243573667	-0.003228921	0.0045001585
## 94	0.438345510	-0.904809608	-0.059711185	0.345868863	-0.0424626213

## 95	-0.002308906	-0.004414414	0.213464834	0.008368850	-0.0252721595
## 96	-0.115732031	-0.019772266	0.119917560	0.036701794	0.0394055380
## 97	-0.042920492	-0.513267174	0.400812759	-0.154195162	-0.0770548533
## 98	0.328858378	0.431637474	0.124931692	-0.534303139	0.0194807915
## 99	-0.108195853	0.167773618	-0.229316262	-0.121787328	0.0668539580
## 100	-0.078248713	0.500514624	0.179275731	-0.449693106	-0.1301815460
## 101	0.061500995	0.073729303	-0.349068071	-0.270033055	0.4198623268
## 102	0.198278345	0.306217639	-0.267512442	-0.302292960	0.2316488627
## 103	0.164080519	0.258925992	-0.256292022	-0.002575814	-0.1086899265
## 104	-0.336138505	-0.269457116	0.216070866	0.191574770	-0.2446342740
## 105	0.322727100	0.241510334	-0.242041340	0.014463649	0.3104144665
## 106	0.197709798	0.307228646	-0.029063495	-0.208251692	0.2579127058
## 107	0.012103256	0.143014866	0.295366558	-0.088582928	-0.1027030780
## 108	0.044774918	-0.007447988	0.020676855	0.063499818	-0.1098850265
## 109	0.395631093	0.107186747	0.033859184	0.369620431	-0.1251456480
## 110	-0.186576463	0.086610042	-0.363589942	-0.158913685	-0.2741925830
## 111	-0.226123995	-0.073181851	-0.103447598	-0.163841772	0.0314085875
## 112	0.087025634	-0.140511397	-0.223899981	-0.114136013	0.0177511075
## 113	0.008328633	-0.304917380	-0.146109477	0.130055519	-0.0670354075
## 114	0.126379207	0.309898751	-0.055125931	0.113163237	-0.1262014695
## 115	-0.232331548	-0.420172288	-0.109217945	0.113620512	0.0041650815
## 116	0.141318972	0.130936500	0.493091990	-0.284414517	0.0263824402
## 117	0.489736341	0.763747710	0.372787539	-0.008863258	-0.0370535042
## 118	-0.116890441	0.219871279	-0.246930870	-0.177510748	-0.2657368080
## 119	-0.005133824	-0.686457217	-0.132886147	0.867436803	-0.4246447930
## 120	0.705363106	0.883984459	0.475504176	-0.209709584	-0.1357251945
## 121	0.121848852	0.330960395	0.054657169	-0.137614479	0.1606894437
## 122	0.219189540	0.125922365	-0.404628673	0.219847315	0.1093907325
## 123	-0.108965921	-0.097993574	-0.426694687	-0.296601010	0.5563762525
## 124	-0.091112866	-0.087214278	0.005706635	-0.170780258	-0.3368575660
## 125	0.068908389	0.240557885	-0.060458684	0.090180682	-0.0890419840
## 126	-0.174274524	-0.158507614	-0.360698986	0.147308280	0.1353466075

## 127	-0.182388821	-0.156167837	-0.234104956	0.050441184	0.1640193820
## 128	-0.328385461	-0.107079034	-0.194163853	-0.066955349	-0.1221642665
## 129	0.218762676	-0.108388260	0.092146855	0.063853953	-0.0676496795
## 130	-0.091046071	-0.132805664	-0.207371149	0.034868644	0.0382947645
## 131	-0.230323238	-0.380716536	-0.292502058	-0.058697442	0.2792496855
## 132	-0.058430489	-0.269270681	-0.026942792	0.126992213	0.0000000000
## 133	0.125525041	0.310046562	-0.047912368	0.139631944	-0.0965154895
## 134	0.247599003	0.150603724	0.240517094	0.135903006	-0.1784594352
## 135	-0.315812649	-0.258599795	0.161506917	-0.371148122	-0.2055970927
## 136	0.324198044	0.305814168	0.023389909	-0.003859681	0.4478708137
## 137	-0.003321510	-0.095104963	-0.149613645	-0.236340400	0.1562635703
## 138	-0.129048441	-0.200478104	-0.101463960	-0.249248971	0.3713010855
## 139	0.112465045	0.214759633	0.120932403	-0.303843813	0.2765988845
## 140	-0.001387266	0.223841226	0.183633249	-0.193664583	0.0927834413
## 141	-0.144937280	-0.367923944	-0.118653306	-0.100820591	0.0966956530
## 142	-0.046727559	-0.009034351	-0.112475635	-0.155452275	0.2084956652
## 143	-0.117698690	-0.039968849	-0.198018803	-0.239931389	0.0217414388
## 144	-0.056494009	-0.008310173	-0.148929885	-0.158011093	0.0912496140
## 145	-0.167445501	-0.249855630	0.091081378	-0.105412903	0.0197097805
## 146	0.073625438	0.205561517	-0.184512562	0.021093441	0.3411290510
## 147	0.061760179	0.219097695	0.059716972	-0.031704188	0.0757807365
## 148	-0.114513485	-0.314432037	-0.324037636	-0.226229738	0.2127448490
## 149	0.284905734	0.222722113	0.158646777	0.007619255	0.0359321505
## 150	0.078076617	0.061830745	-0.416983174	-0.065674628	0.0271792897
## 151	0.026312761	-0.128075890	0.422876244	0.136377632	0.1242780815
## 152	0.229801019	0.437948084	-0.128436810	-0.144075413	-0.0125821635
## 153	0.039123142	0.154258407	0.261451231	-0.318421615	-0.1238488880
## 154	-0.306461443	-0.875714310	-0.315492846	0.068602418	-0.1269966852
## 155	-0.126262383	-0.091836617	-0.149043700	0.129623592	0.1874483838
## 156	0.143380388	-0.123263488	0.163900118	0.039183339	0.1297321015
##	pp_PI3K.p85	pp_PKC.alpha	pp_PKC.delta.pS664	pp_PKC.pan.BetaII.pS660	
## 1	0.177184668	0.178935539	0.2063637985		0.22640719

## 2	-0.101884873	0.117645553	0.1061929660	0.28535544
## 3	-0.060435538	-0.046022415	-0.1545435840	-0.22794268
## 4	0.086420081	-0.361559806	0.1285447762	0.11669040
## 5	0.162585209	0.492212276	0.0311767005	0.11723726
## 6	1.404303577	-0.082718705	-0.1768673325	-0.28303039
## 7	0.052326640	0.403588476	0.1597447640	-0.37741094
## 8	-0.123712445	0.405597977	0.0342998645	0.35247706
## 9	-0.387533531	-0.105993034	-0.1030509685	-0.62701626
## 10	0.050941666	0.162004308	-0.1925302513	0.02766363
## 11	0.189496399	-0.081863308	-0.0515320680	0.06003786
## 12	0.903506862	0.189109774	0.2241826490	0.94704331
## 13	0.283637184	0.348718346	-0.2383516135	0.13843117
## 14	-0.359992464	0.130803473	-0.1620365435	-0.22475683
## 15	0.490355610	-0.112117129	-0.1301109375	-0.02967500
## 16	0.112111342	0.139601081	0.1154776525	0.74921908
## 17	-0.471260466	-0.226358525	0.0223679880	-0.30818747
## 18	0.093907829	0.191576581	-0.1259112710	1.34881153
## 19	-0.098461128	-0.012274307	0.0575140010	-0.06815914
## 20	0.151057343	-0.269063157	0.0366039855	0.24132158
## 21	-0.297365694	0.033468304	0.0395877200	0.22099022
## 22	-0.146319172	-0.257124158	-0.2135272010	-0.85719242
## 23	-0.589718511	-0.166928749	-0.0733581335	0.27506457
## 24	-0.121429714	0.298429040	-0.0962238400	-0.44134821
## 25	0.046650301	-0.132535307	0.0700304320	0.58035960
## 26	0.099248752	-0.102348614	0.0667029045	0.30852382
## 27	-0.218029321	0.252051029	0.0427607935	0.41964779
## 28	0.018121519	-0.000013844	0.2013510685	0.09613837
## 29	-0.260905263	0.278259466	0.1673752265	-0.05835895
## 30	-0.072020896	-0.004741937	0.1246800440	-0.20613144
## 31	0.065750819	0.075590530	-0.2281209255	-0.37890297
## 32	0.656838827	-0.009086955	-0.3588611545	0.27819433
## 33	0.225932135	0.240265034	-0.4826800700	-0.12581312

## 34	0.013820011	0.073688091	0.1752518060	0.21297700
## 35	-0.029053404	-0.063940490	0.2126617430	0.30284364
## 36	0.144539026	-0.284317920	-0.0797306490	0.07162890
## 37	0.066782210	0.348194293	0.1919856575	0.59900980
## 38	-0.049327156	-0.147960271	0.0069519080	-0.34582022
## 39	-0.023924946	-0.230039000	-0.0100422070	-0.37006789
## 40	0.698373414	-0.002784136	0.3172026105	0.50173081
## 41	0.040225745	0.403765877	-0.1677793050	0.68817654
## 42	-0.144173976	0.297716640	-0.0752429115	0.44194069
## 43	0.071423590	-0.227773206	-0.0454734840	0.51734764
## 44	0.036946476	0.142370075	-0.1714136815	-0.09237721
## 45	0.316876128	0.561406451	-0.3356325670	0.21558151
## 46	-0.114102458	-0.139014927	-0.0207042825	-0.07790049
## 47	0.371732694	0.195696627	-0.2909109700	0.39455843
## 48	0.185006771	0.060612327	0.1343798660	0.14648478
## 49	-0.448170056	0.075890637	0.2050788970	-0.24261459
## 50	0.271651076	0.003527823	0.0569332515	0.74619230
## 51	-0.452862528	0.278272350	0.0721102385	0.62486390
## 52	-0.514834079	0.678784412	0.1107671050	-0.63948903
## 53	-0.207752052	-0.291877710	0.0748976300	0.43008874
## 54	-0.133700940	-0.126651418	0.0669712340	0.19875443
## 55	0.532081977	0.375676307	-0.0650651310	0.20086629
## 56	-0.144103187	0.377037699	-0.0251087365	0.67148815
## 57	-0.090089477	0.104380371	-0.1101899005	-0.12133911
## 58	0.217081901	0.172172516	-0.1694838405	-0.02590377
## 59	-0.141678395	0.195221205	-0.0893132150	0.05131268
## 60	-0.062819793	0.008247647	-0.2440307145	-0.65114029
## 61	-0.391291402	0.056081387	0.1106417045	-0.01671941
## 62	-0.191773272	-0.001302870	-0.0063782125	0.27496710
## 63	0.791703274	0.334810413	-0.0381158280	-0.07389098
## 64	-0.105562667	0.059571542	0.1212342650	-0.87821185
## 65	0.094331184	0.403964928	-0.0820582127	-0.10549126

## 66	0.133861523	-0.295272525	-0.1625617283	0.41221595
## 67	0.455434881	0.627684865	0.1403359490	0.43401822
## 68	-0.002770379	-0.153483374	-0.5874010542	-0.04287698
## 69	0.580466753	0.177141008	-0.0757677510	-0.37383435
## 70	-0.008085289	0.149398106	-0.0107453252	0.20603008
## 71	0.085694158	0.008545701	0.0456626068	-0.48758277
## 72	0.281625936	-0.212149655	-0.0483041365	-0.57715697
## 73	-0.418836242	0.452631289	-0.0118076423	0.05150390
## 74	0.187190459	-0.133323518	-0.0019315010	0.18758976
## 75	-0.080133074	-0.012361931	-0.1360639365	0.47660145
## 76	0.298878458	-0.243576463	-0.2574517990	0.22664041
## 77	-0.179857072	0.384395441	-0.4041999865	-0.24144125
## 78	-0.275551896	0.297648974	-0.1781689190	0.06970355
## 79	0.496877892	0.024780577	-0.1353690465	-0.14450255
## 80	-0.347627805	0.807875254	0.1253628995	0.06981129
## 81	-0.901124366	1.102658686	0.2208355345	0.73519456
## 82	-0.368232962	0.446375988	-0.4354471635	0.07891186
## 83	0.099812030	0.362899464	0.0110528025	-0.31058396
## 84	-0.078320987	0.247335343	0.1708498978	-0.22486245
## 85	-0.207484370	-0.090272216	-0.2274083917	0.49936767
## 86	-0.666825681	-0.068894001	0.0597876515	-0.73288750
## 87	-0.175963837	-0.362543591	-0.3186391953	-0.50189688
## 88	-0.361494755	-0.070137346	0.0175435670	-0.05285859
## 89	0.456161277	-0.167149922	-0.0637781890	-0.04808535
## 90	-0.255594247	-0.170869417	0.6044921307	1.31068477
## 91	-0.081232244	0.128880470	0.0564393555	0.17808299
## 92	0.070521526	0.088506207	-0.0204811465	0.26452842
## 93	-0.288216535	-0.004595118	0.0588069035	-0.28423022
## 94	-0.771849657	-0.229274672	0.3238438893	-1.01715330
## 95	-0.016971430	0.132407764	-0.1331945090	-0.45170560
## 96	0.144501897	-0.059212347	0.0000000000	0.64690322
## 97	-0.121468142	-0.761651024	-0.3001337427	-0.74949890

## 98	0.245609327	0.029024208	-0.4283362335	0.46914469
## 99	-0.130933774	-0.047708751	-0.0163281490	0.23318233
## 100	0.404372612	-0.364355243	-0.1156280550	1.70248082
## 101	-0.226712878	-0.420049804	-0.0847273938	0.05836727
## 102	-0.013817778	-0.193750625	-0.1540725958	0.65161973
## 103	0.389004737	-0.222369381	0.0226424185	0.76565729
## 104	-0.348590526	0.033547092	0.0147289220	-0.21544537
## 105	-0.350098311	-0.230969102	-0.1545642935	-0.03144812
## 106	0.133317707	-0.095899809	-0.1823833747	-0.19616241
## 107	0.000000000	-0.034540930	-0.0252040790	0.59625853
## 108	-0.002042637	-0.254867416	-0.1616727285	0.35087210
## 109	0.264098418	0.084275211	-0.3989705120	0.04681617
## 110	-0.461980350	-0.117591069	0.6045388900	1.37859714
## 111	0.089328842	-0.004009423	0.0866264045	0.61040551
## 112	0.041091575	0.124685585	-0.1351642915	-0.02046804
## 113	0.026251122	-0.265868307	-0.0317908645	-0.35220636
## 114	-0.154305315	-0.061118698	-0.2192364455	-0.21343853
## 115	-0.035050147	-0.047773267	0.0232370770	0.33605174
## 116	-0.061428085	0.415088901	0.0475748528	0.01963209
## 117	-0.397797014	-0.365611101	-0.0501424087	0.26325798
## 118	0.129948329	-0.141001303	0.0063280970	0.49117666
## 119	-0.113970796	0.385501221	0.4825172000	-0.45648469
## 120	0.217685495	-0.290728601	0.1497739360	0.23565143
## 121	-0.251582970	0.089849109	-0.1185582438	0.08581818
## 122	0.773842006	0.231938413	0.0003333625	0.22748603
## 123	0.094869841	-0.181071001	0.1700654455	0.57672276
## 124	-0.153456845	-0.003204551	-0.0865980490	-0.22442344
## 125	-0.179837546	-0.052820780	0.0441678890	0.31957480
## 126	-0.372961716	0.524009220	-0.0126790335	-0.23754988
## 127	0.192201394	-0.044195716	0.0000000000	0.03919656
## 128	-0.154430738	-0.201610198	0.3164225435	1.01458320
## 129	0.062168119	-0.175302030	-0.1190559405	0.38498147

## 130	0.154026969	-0.121343646	-0.0515804295		0.06813880
## 131	0.087446688	-0.270356129	-0.0551512485		-0.02463529
## 132	-0.177282441	-0.445654322	0.2475504280		-0.24669215
## 133	0.062287748	0.010254934	0.1110162285		0.43278835
## 134	-0.123344039	-0.129718067	-0.3496357608		0.61241447
## 135	-0.136300607	0.374811471	0.0698093428		-0.23694102
## 136	0.378360945	0.020740075	-0.1033840938		-0.13475492
## 137	-0.141789845	-0.022612728	0.0873541658		-0.11782216
## 138	-0.064786312	-0.128989573	-0.0988728680		-0.16487052
## 139	-0.017725009	-0.040797997	-0.0989431210		-0.36613780
## 140	0.072730064	-0.195966850	-0.1480770142		-0.36811459
## 141	0.126705300	-0.306514591	-0.0299817105		-0.18619951
## 142	0.020220525	0.488705361	-0.0773310552		0.24676182
## 143	-0.194037673	0.015317939	-0.0893092688		0.11336810
## 144	-0.350266850	-0.233896650	-0.0049413835		0.66286579
## 145	-0.185985440	-0.108671289	-0.1386361400		-0.34141079
## 146	0.078247733	0.080113490	-0.0556276830		0.11795458
## 147	0.524217805	-0.036289715	-0.2204265565		0.25542303
## 148	-0.335092591	-0.007596986	-0.0969497395		-0.54348769
## 149	-0.353996761	-0.071746568	0.1158601320		-0.31762832
## 150	0.224521195	-0.463724626	-0.1927660207		-0.34261050
## 151	-0.212767572	0.152384756	-0.1074048750		-0.34450931
## 152	-0.462376299	-0.211059689	0.1655680300		0.40160784
## 153	-0.692542168	-0.296810935	0.0387234675		0.17885030
## 154	-0.542376374	0.140282453	0.0015161973		-0.41305982
## 155	-0.385351305	-0.112931604	-0.0667623618		0.22117556
## 156	-0.191618238	0.287446624	-0.3955206645		-0.42547758
##	pp_PR	pp_PRAS40.pT246	pp_PRDX1	pp_PREX1	pp_PTEN
## 1	0.104916180	0.024662789	-0.187698797	0.809358198	0.112429782
## 2	3.849083919	0.102569143	-0.153136361	-0.384720340	0.636044502
## 3	0.086957528	0.014400609	0.545213734	1.781130177	-0.213253690
## 4	0.447187269	0.068360038	0.219991255	2.327026746	0.591263559

## 5	0.154232042	0.020323164	0.019834189	0.140413549	-0.061045538
## 6	0.025386408	0.313502157	0.105111159	-0.675360271	1.135312367
## 7	0.199732586	0.006402324	0.061544385	-0.456145872	-0.154205023
## 8	-0.045477667	0.119583544	0.172209476	-0.305836889	-0.254948793
## 9	0.057530483	0.152725271	-0.173733486	-1.023491501	0.563826109
## 10	-0.095145062	-0.145454204	-0.078249690	0.862195403	0.150408356
## 11	0.051418829	0.250257682	0.243788469	1.243981372	-0.078699574
## 12	-0.263080407	0.068463448	-0.311964438	0.260812014	-0.124171215
## 13	-0.987307675	-0.038606051	-0.171569102	-0.003173035	0.277949194
## 14	2.708687470	-0.070895885	0.026959225	-0.597696897	0.000000000
## 15	4.850192601	-0.310019422	-0.018401469	-0.066916019	0.096879125
## 16	4.765937826	0.309035763	-0.268186896	0.104269055	0.067884377
## 17	-0.791592764	-0.229914669	-0.240691443	1.103762917	-0.366001030
## 18	1.105315845	-0.108024777	0.338743843	2.033990750	0.007718615
## 19	4.978249465	-0.259514113	0.060933192	0.848637918	0.201700421
## 20	2.045416032	0.125526309	0.053847716	1.451138666	0.174682111
## 21	-0.879295162	-0.057679161	-0.260686140	-0.371237896	0.144034823
## 22	-1.034955836	-0.316459176	0.879988386	-0.628195124	0.040239909
## 23	-0.963291952	-0.079217946	-0.410802767	-0.576973903	0.627840940
## 24	-0.083344110	-0.183379442	0.089344856	-0.587885635	-0.191439030
## 25	5.411550594	0.250926936	-0.101863464	1.362998317	0.111349855
## 26	0.695128351	0.387300423	0.069016590	0.413548713	0.069451432
## 27	3.655512364	0.170466449	-0.137243593	1.159544265	0.251028700
## 28	-1.006369040	0.199531914	0.094080194	-0.344740906	0.547889910
## 29	0.113665114	0.116669973	-0.105541199	-0.725221099	-0.617983861
## 30	2.151081900	-0.465727351	-0.199017342	1.013681192	-0.433364719
## 31	2.782556174	-0.190141824	0.399449591	0.565839885	-1.019018127
## 32	3.317021754	0.295735871	0.276330409	-0.759662231	0.057679726
## 33	1.294632517	-0.142908876	0.015461724	-0.251576483	0.280219883
## 34	3.322589728	-0.278845375	-0.221544804	0.356821239	0.043752350
## 35	-0.861039380	-0.032858906	-0.083630777	-0.026260396	-0.126739021
## 36	-0.753289291	0.009936806	0.489730407	0.000000000	0.281093194

## 37	2.056699753	-0.378336580	0.249185908	-0.244384450	0.414173496
## 38	1.226214842	-0.248146564	0.475976599	0.618268803	-0.223873312
## 39	1.336506736	-0.247350596	0.437190262	0.676255398	-0.125781563
## 40	-0.288717658	-0.119322907	0.012726647	-0.314787003	0.298860053
## 41	-1.346078857	0.407557524	-0.111657029	-0.571576135	-0.287915331
## 42	-1.044014659	0.071159672	-0.227949915	-0.171587620	0.342893310
## 43	-1.181221373	0.372000712	0.285629916	-0.257918792	-0.565169855
## 44	2.778158464	-0.258544791	-0.393472592	-0.225467309	0.219857115
## 45	1.623433004	-0.363503160	-0.200744196	-0.566452139	-0.450925641
## 46	5.219721104	0.060200972	-0.177223703	0.690756211	0.277228363
## 47	3.229556381	-0.183828802	-0.219634663	-0.740842219	-0.189653659
## 48	0.129034139	-0.575586273	0.000692888	0.020188017	0.499489095
## 49	2.201522601	0.319612114	-0.250995827	0.138848699	-0.189037984
## 50	4.858737450	0.185410391	-0.706838688	1.188898272	0.492802966
## 51	-1.268197986	0.295104360	-0.455313601	-0.337078781	-0.515422526
## 52	0.497649664	0.199092731	-0.411405666	-0.693627560	-1.158147561
## 53	-0.662756566	0.121191283	-0.296077112	0.290972807	0.076781892
## 54	1.627265107	0.005923203	0.049738501	0.262984872	0.188275068
## 55	3.529609073	-0.406937859	0.057649868	0.094885459	0.582930084
## 56	-1.140558080	0.123617036	-0.105986397	-0.434630929	-0.110103305
## 57	-0.191934823	-0.065755757	-0.140797293	-0.553128381	-0.404240276
## 58	3.972579137	-0.519279810	0.106403552	0.304092123	0.808194381
## 59	-1.193825094	-0.066580186	-0.152945122	-0.799359368	-0.293697606
## 60	-0.489905698	-0.751753009	0.058989286	0.002576650	0.186096799
## 61	0.051919690	-0.146120622	-0.434547569	0.050882419	-0.197475660
## 62	-0.064399659	-0.192217371	-0.042124154	-0.959975626	0.774767905
## 63	0.739572756	-0.340808303	0.375788560	0.333373735	0.351385589
## 64	0.428967368	0.002008240	0.122766658	-0.981020507	-0.563435675
## 65	-1.370070218	0.184660576	-0.213624713	-0.670541166	0.102663775
## 66	0.054190010	-0.077372442	-0.228296851	1.594644612	0.858225154
## 67	0.140239835	-0.093990935	0.406107049	0.260590566	-0.619460320
## 68	-1.553055942	0.244747668	0.699725213	-0.771354866	-0.216353848

## 69	2.831642949	-0.101304622	0.156687731	0.194509020	0.363047524
## 70	1.545418777	-0.126825669	-0.128289886	-0.203916095	-0.019331614
## 71	0.255531158	-0.274734637	-0.369468243	0.050131452	0.370178824
## 72	-1.839210112	-0.314732277	0.092711594	0.106539018	0.105601704
## 73	-1.781788412	-0.107161933	-0.261144113	-0.855718484	-0.226594955
## 74	4.958739904	0.101027753	0.220916346	0.726176999	0.182566136
## 75	-0.439008265	0.320298096	0.003899886	-1.059548386	-0.121185113
## 76	4.848716387	0.320132217	0.028324878	1.161624410	-0.296438044
## 77	0.053077559	-0.066792631	-0.543103395	0.126708484	-0.028614060
## 78	-1.094997788	0.164681160	-0.345067111	-0.577161285	0.541831691
## 79	4.458424641	0.459377500	-0.082936268	0.044293537	-0.362445330
## 80	-0.008943078	0.116353392	0.659717618	-1.762539432	-1.009047236
## 81	-0.304649582	-0.421216219	1.355397153	0.737014370	1.147826280
## 82	0.071420710	-0.155093359	0.699114455	0.080731672	0.491543583
## 83	0.309438129	0.014135993	0.091020694	-0.378649493	-0.060019511
## 84	3.281783602	0.295423210	0.326036647	0.098942729	0.071556170
## 85	-2.119101878	0.341751065	-0.236262136	-1.138814770	-0.028268237
## 86	-0.486753257	-0.238702436	0.209171480	0.287106745	-1.512916973
## 87	0.299634721	0.170379507	0.427538232	0.202232331	-0.297960940
## 88	-0.896222801	0.251367452	0.671945616	2.225559781	0.512541630
## 89	-0.734659559	0.339559239	0.136351394	1.828503575	0.295768765
## 90	0.039285528	0.194274471	1.158076908	0.807506536	0.604127252
## 91	-0.410658656	0.405786400	-0.182266663	0.012257814	0.219538877
## 92	-0.746942210	0.041576155	-0.004601811	-0.445327649	0.263352070
## 93	2.369987835	-0.173390310	0.023156262	0.467493002	-0.017538052
## 94	0.533910329	0.079034019	0.003188820	-0.870428915	-0.608618116
## 95	0.589918631	-0.119349044	-0.272416695	1.101179758	-0.023826620
## 96	-1.014007918	0.224791267	-0.194241057	0.113939070	0.455974708
## 97	-0.160071668	0.260118116	1.090870038	-0.581947322	0.055325920
## 98	0.362977080	-0.355523302	0.270967030	0.926697963	-0.435508220
## 99	0.330465386	0.064330729	-0.006200948	1.119485618	0.560440379
## 100	5.079082219	0.282071658	-0.122025156	1.731782719	0.396955363

## 101	-0.159056591	0.199094580	-0.311498197	0.484929569	-0.273238025
## 102	0.083183841	0.169111441	-0.027452615	0.954666629	0.309721605
## 103	3.098254960	0.548021676	-0.153369921	1.217479028	0.563648530
## 104	-0.811172542	-0.202461763	-0.343053631	-0.543465927	0.449403461
## 105	-0.748907072	-0.019630772	0.079177374	2.904370190	0.581310880
## 106	1.033947105	0.050780680	-0.086035129	0.867989005	0.467814678
## 107	4.421557067	0.409269598	-0.164240610	1.404081326	-0.066853425
## 108	1.752287877	-0.111867669	0.095739008	1.663267336	0.078232908
## 109	2.146657815	-0.057490048	0.000000000	0.230908079	0.102182511
## 110	-1.032514391	0.220634182	-0.514523346	-0.601895950	0.139129971
## 111	-0.964450371	0.397419218	-0.099621331	-0.211200753	0.684684268
## 112	3.076008959	0.041317664	0.296854212	1.676673934	-0.096072249
## 113	-0.037153755	0.061912754	0.362509128	0.427661018	0.355101256
## 114	1.925736639	-0.019575338	0.294318631	-0.600473812	-0.029485098
## 115	-0.127076468	0.430850504	-0.108644106	-0.361960644	0.057697016
## 116	-0.028199332	0.167197330	-0.388958844	0.125923509	0.502352132
## 117	-0.147048665	0.336009663	-0.442862732	-0.225171368	0.078863300
## 118	-0.643147523	0.461000287	0.168318155	0.614894537	-0.021032023
## 119	1.461117108	0.152591388	-0.460873077	-0.295368889	-0.919120034
## 120	0.505519912	0.233428209	-0.111762312	0.726434240	0.941360456
## 121	-0.228096723	-0.019813359	0.488779030	0.212935526	0.432457008
## 122	5.670228961	0.070521564	-0.596397690	0.979526462	0.121500829
## 123	5.793065388	0.391940323	0.119471246	0.271098075	0.352908303
## 124	-0.843164067	0.437862739	0.178209468	-0.480237260	0.533005822
## 125	-1.089420030	-0.259564587	-0.090597177	-0.680534690	0.584040925
## 126	-0.096660357	0.042223973	-0.317249828	0.445307538	-0.442778590
## 127	1.757911456	-0.045018847	0.384534672	0.120622486	0.084621258
## 128	0.470899640	0.169286324	-0.051662486	0.644005211	0.550861338
## 129	-1.088584654	0.159562172	0.522467517	-0.614785585	0.143125023
## 130	0.154747817	0.488786723	0.179760821	-0.093616293	-0.072000782
## 131	-0.876206680	0.133357674	0.393323682	0.626977022	-0.559553512
## 132	3.515247143	-0.010793233	0.203632886	-0.308553793	0.436125076

## 133	-0.888421434	0.379165080	0.260122858	0.399629754	0.119127959
## 134	-1.891310199	0.734600888	0.590095281	-0.260710735	-0.129590302
## 135	2.899309641	-0.027194570	-0.317351802	-0.119616181	-0.107826569
## 136	0.163729034	-0.060871334	0.087627881	0.447256041	0.484179949
## 137	0.022787808	-0.162897822	-0.221682831	0.442683558	0.277842842
## 138	-0.005032369	0.150277321	0.195841864	-0.684143983	-0.746014569
## 139	0.656958024	-0.306562903	-0.063004715	1.590499914	0.175683535
## 140	0.028542151	-0.343218097	0.222491009	0.162553575	-0.233546021
## 141	0.013767423	0.114936713	0.195272682	-1.115342699	-0.951497829
## 142	-0.218114423	0.141896511	-0.103000631	1.133401315	0.080027387
## 143	-0.211745891	0.762963604	-0.499274746	-0.795483016	-0.823688435
## 144	-0.182887111	0.001829024	0.155440973	0.592505440	0.092711535
## 145	-0.168723835	0.408755996	0.339835149	-0.601216997	-0.307913903
## 146	2.563451774	-0.386696260	0.095784935	1.908197562	0.636111391
## 147	4.107513464	-0.012015678	-0.048949978	-0.056846775	0.573398332
## 148	0.009617099	-0.108562975	0.165361526	-0.777904000	0.689421716
## 149	0.642937616	0.019360636	-0.099749746	-0.146618821	0.338777400
## 150	0.017600560	0.179105493	-0.229335072	-1.439252539	-0.291277347
## 151	-0.028624697	-0.071023954	-0.218680203	0.450189130	-0.195789197
## 152	0.034859215	-0.051422040	-0.059394192	0.210287240	-0.012235348
## 153	-0.175472469	0.298551774	-0.496064491	-0.740833817	0.055629067
## 154	0.055784364	0.099441152	-0.411191503	-1.226166052	-0.255723847
## 155	0.164485033	0.486433574	-0.340003277	1.728689220	0.340231734
## 156	3.605931969	-0.606515386	-0.411565984	0.007277155	-0.394023109
##	pp_Paxillin	pp_RBM15	pp_Rab25	pp_Rad50	pp_Rad51
## 1	-0.085389194	-0.41676467	0.118606637	0.1320710255	-0.297700378
## 2	0.387892525	-0.30922656	-0.114978780	-0.0819352475	-0.064930661
## 3	-0.081101518	-0.42236282	-0.498535120	0.0470971740	0.047691994
## 4	-0.227980257	0.09261598	0.494328239	-0.3052089307	-0.264379591
## 5	-0.362513875	-0.75224728	-0.533809955	0.0516878295	-0.267241138
## 6	-0.334677809	2.23718744	1.111266648	-0.4496536730	0.014822929
## 7	-0.140634951	-0.97096934	-0.379678434	-0.0356091890	0.225398785

## 8	-0.282216151	0.51266101	0.326956836	-0.1532302975	0.336106675
## 9	0.165095252	1.03688919	-0.026708631	-0.3692848655	0.233275242
## 10	0.029383685	0.20140120	0.192438339	-0.0177632992	-0.159691532
## 11	-0.457744557	0.58779518	-0.235500051	0.4821845540	-0.038456623
## 12	0.183397775	-0.06114515	-0.615907044	0.1008447735	0.022100557
## 13	-0.134415526	0.41647485	0.679145974	-0.1918093340	0.097533748
## 14	-0.010583469	-1.59881449	-0.323606218	0.0001094570	0.000978352
## 15	-0.107178609	0.19190550	1.098078787	0.4611668500	-0.172254447
## 16	0.412610663	0.12379597	-0.016364082	0.2330664710	-0.129185973
## 17	-0.078363768	0.28909102	0.204486244	0.2035607835	0.028701815
## 18	0.102439572	-0.41196761	-0.137061738	-0.0885286005	0.022390317
## 19	0.177397540	-0.05457573	0.661431752	0.4094807435	-0.109270855
## 20	0.313916684	0.62083720	0.218538989	0.3187541740	0.205346260
## 21	0.184483141	0.10005789	-0.342036357	-0.1139247235	-0.052171782
## 22	-0.551237905	0.05196228	0.036499954	-0.4301160845	0.265724415
## 23	0.039650893	0.01297759	0.220143545	0.1478103180	0.137841765
## 24	0.042582402	-0.24117086	-0.468800031	-0.1233750540	0.045651603
## 25	0.033559608	0.10490823	0.760936365	0.1280670725	-0.210697442
## 26	0.346869382	-0.47748443	0.171330613	-0.2760280100	-0.017426964
## 27	0.230774026	0.20085295	-0.183860201	0.1136899550	-0.137761776
## 28	-0.028135757	0.38653284	-0.498275613	-0.1834466720	0.080009228
## 29	-0.339967473	-1.73000543	-0.552865686	0.2124161690	0.380594886
## 30	-0.200389429	-1.25252486	-0.087603166	0.1327148145	0.214724477
## 31	-0.735355504	-1.65797766	-0.829709114	0.4677222290	0.395876025
## 32	0.220477911	-0.63988269	-0.241231770	0.0435287070	-0.300508456
## 33	-0.053486368	-1.60595805	-0.267085458	0.0319941205	-0.110573555
## 34	-0.075638600	-1.01542818	-0.285757217	0.1027272615	0.037401645
## 35	0.042992087	0.04115132	0.008833869	0.2243980005	-0.022736755
## 36	-1.110605722	0.03029313	-0.290171976	-0.1567474695	-0.056106202
## 37	0.601826014	0.39986778	-0.149929501	0.0065956870	-0.043396292
## 38	0.129131878	0.19951569	0.508639115	0.2981051135	-0.031037338
## 39	0.186850247	0.24467902	0.493817773	0.2621032285	0.054267009

## 40	-0.082761574	0.47632382	0.318499677	0.2638328910	0.021459946
## 41	-0.243271768	0.99607940	0.795431556	-0.0687158055	-0.222423092
## 42	0.404428215	0.09999943	-0.492654669	-0.2327692700	0.000000000
## 43	-0.127897357	1.08598958	0.091096311	0.0637223965	0.129243010
## 44	-0.232916560	-0.65151969	-0.436659147	0.0021950020	0.437925104
## 45	0.017794641	-1.02171280	-0.178989311	0.0815220035	0.410724082
## 46	0.321189706	0.54840130	1.129907470	0.2035413240	-0.007280597
## 47	0.235671384	-0.64438737	-0.046396979	0.3227321255	-0.126406060
## 48	0.883614300	-1.65885733	0.766079503	-0.0258844945	0.016484982
## 49	-0.198610575	-1.34047233	-0.589407602	0.2374914345	0.686954558
## 50	0.110470913	0.00000000	0.891934723	0.1346201790	-0.166548764
## 51	0.163730361	0.63008336	-0.054714255	-0.0765985080	-0.027012166
## 52	-0.214689118	-1.78746849	-0.897138065	0.5618158095	0.767165411
## 53	0.647376047	0.29378495	-0.183122630	0.0548270935	0.101038165
## 54	0.024277394	0.38681824	-0.331866914	-0.1088434085	0.014285940
## 55	0.131374988	0.23858772	-0.041420848	0.2979382305	0.024463671
## 56	0.162718328	0.38957445	-0.023594049	-0.1535199620	0.030442685
## 57	0.113878680	-1.22520914	-0.146161295	0.0245356010	0.570487575
## 58	0.560046284	-0.55323811	0.085021865	0.0000000000	-0.098615474
## 59	-0.025553076	0.39795715	0.214959610	-0.0934976665	0.290376531
## 60	0.589442872	-0.27998477	0.419179334	-0.1486451360	0.237279019
## 61	0.077384648	-0.96335116	0.102451957	-0.1233849625	-0.290511550
## 62	0.180331855	0.12126738	0.070200636	0.1485727045	0.206589037
## 63	0.062688498	0.01877011	0.575425193	0.1482361040	0.398431598
## 64	0.497186122	-1.94255282	-0.811835222	-0.0015739470	0.571554113
## 65	0.044904480	-1.26637744	-0.982186421	-0.0101810777	0.133284636
## 66	-0.068583827	-0.10135805	-0.949148125	0.3650134468	-0.034773298
## 67	0.131177811	-1.77457788	-0.362653377	-0.2955689860	-0.049655965
## 68	0.257713285	-1.74538502	-0.151789293	-0.3741063003	0.186265347
## 69	-0.295284119	-1.21929553	0.311808012	0.2500585940	0.019195171
## 70	-0.079882817	0.73662271	-0.033105001	-0.0540824023	0.233185590
## 71	-0.425504601	-0.27743125	0.686559412	-0.3144686092	0.369835572

## 72	-0.601411087	-0.62700917	0.104877525	0.2475938865	0.052128543
## 73	0.342717038	0.55470637	-0.906859819	-0.1464499842	-0.031568452
## 74	0.311887066	-0.16081110	-0.404844996	0.4171356725	0.078184158
## 75	0.250104911	0.92202396	0.293635648	0.0132846850	-0.101589518
## 76	0.379951710	0.41161931	0.137744535	-0.2005214675	-0.295215548
## 77	-0.066728532	-1.67138422	-0.333826150	0.3313361360	0.178327357
## 78	0.329295881	0.38698889	0.409648866	-0.2014239525	-0.069498378
## 79	0.112351751	-0.51982711	0.519298835	-0.0099833960	-0.228820925
## 80	0.222922554	0.01801380	0.940271051	-0.4837265815	0.004114025
## 81	0.509382756	0.88848951	0.261149621	0.6388523430	0.240080926
## 82	-0.146899941	0.23220681	-0.395133077	-0.0174303550	0.551444587
## 83	-0.150004886	-0.91684310	-0.008519220	-0.0204187715	0.021453085
## 84	0.203429305	0.33982434	-0.358617514	-0.1791743772	0.043881059
## 85	0.571302213	0.67815034	0.748204920	-0.0997767167	-0.108342575
## 86	-0.888621518	-1.33755868	-0.364698427	0.0264140530	0.384451932
## 87	0.395793977	-1.84772169	-0.606561445	-0.3132440822	-0.416504730
## 88	-0.190051134	0.68298694	0.184081268	0.0008705695	0.027713939
## 89	0.356706152	0.07335595	0.688473867	0.3788853445	-0.151610046
## 90	0.118888579	0.25592685	-0.035965101	-0.3007771292	-0.035144688
## 91	0.521230344	1.08053992	-0.433098227	0.0403353570	-0.027797274
## 92	0.413815478	0.57641231	-0.887864482	-0.1740289650	0.050367401
## 93	0.002991777	-0.02247905	-0.481189208	-0.1788564280	0.119633402
## 94	-0.452485148	-2.38974828	-0.621178154	-0.4482191107	0.192154124
## 95	0.215791152	-0.81614807	0.008249092	0.5131442430	-0.081710360
## 96	0.677202086	0.34830689	-0.499077673	-0.2693059975	-0.235985631
## 97	-1.130382090	0.38860108	-0.662673247	-0.6237017277	0.265857653
## 98	-0.608740929	-1.27337334	-0.131764318	0.2918450210	0.000000000
## 99	0.474183449	0.51963293	-0.462312272	-0.1921685505	0.024343678
## 100	0.370179953	0.12675128	0.115236574	0.0154758245	-0.084439765
## 101	-0.380010890	-0.28169483	0.365558324	0.1814168862	0.049771116
## 102	-0.014984042	0.20315076	-0.036155624	-0.0409233038	0.020335123
## 103	-0.006260567	0.16160462	0.662547535	0.0823158480	-0.319810044

## 104	0.511316257	0.08475632	-0.317086553	-0.0722322015	0.234873654
## 105	-0.069973636	-0.01036117	-0.375810316	-0.0931370490	-0.006535084
## 106	0.103667942	0.22137949	-0.767656238	0.7607619633	-0.007964431
## 107	0.212162901	0.54585223	0.951701768	-0.2049097175	-0.259714636
## 108	0.028123453	-0.50558618	-0.257321174	-0.2037294970	-0.197780350
## 109	0.004194163	-0.86311545	-0.400505681	0.2151041265	0.148263051
## 110	0.416120359	0.22670985	0.057177117	-0.1712552535	0.098888677
## 111	0.235663085	0.56345502	-0.247924954	-0.1163954630	-0.132276480
## 112	0.094042048	-1.11292042	-0.326720655	0.0788259920	0.015816173
## 113	-0.191836378	-0.12625972	0.136258418	-0.3623468820	0.017899731
## 114	0.104091508	0.62825399	-0.257704942	0.2262142440	-0.249003467
## 115	-0.370878386	-0.03983783	-0.392585949	-0.2338273950	-0.011924789
## 116	0.160832718	-0.01346438	0.411876650	0.0551147478	-0.385261308
## 117	-0.441929406	-0.29518457	-0.508535158	-0.0352339787	-0.169830595
## 118	-0.034843673	0.05376221	-0.323768534	-0.1172132315	0.117783383
## 119	-0.747687044	-1.98077622	-0.632781923	0.2470559385	0.568840323
## 120	0.504500334	0.04258119	1.018156207	0.4028125670	-0.159864857
## 121	0.089803262	-0.16540016	0.452559098	0.1798128213	-0.205165883
## 122	0.237287936	-1.08286670	-0.258855325	0.2498947240	-0.295904903
## 123	0.462308221	0.59144084	0.842070263	0.8187489920	-0.105294607
## 124	-0.089180451	-0.28573220	-0.170089678	-0.0423962505	0.066781600
## 125	1.015993732	1.13118452	0.493122911	0.0573594255	0.073119379
## 126	-0.158391652	-1.04734592	-0.093104874	0.0203011480	0.217631120
## 127	1.141509706	0.42625168	0.050708802	-0.1404369815	-0.145791291
## 128	0.213711139	0.51990224	0.300320522	-0.0883603450	-0.062906843
## 129	0.096427055	0.15669892	0.153340846	0.1714054610	0.037629396
## 130	0.285618868	-0.27580893	0.467195961	-0.1781688830	-0.014423931
## 131	0.271503764	1.40441777	0.030178885	-0.0235978520	-0.039643729
## 132	0.086022227	-0.52767575	0.489753121	-0.1632148375	0.164414643
## 133	0.066106540	0.60655533	-0.778955283	0.0748489460	-0.143589754
## 134	0.529798208	0.22266762	0.187828330	-0.3521921097	-0.301255481
## 135	0.081642437	-0.36451942	-0.487229172	-0.0401579193	0.046867533

```

## 136  0.317544220 -0.23645958  0.153144917 -0.0897230788 -0.103046327
## 137  0.177237094  0.10963750  0.597385598 -0.1701569422  0.107754420
## 138  0.052024438  0.79644855  0.421338887  0.1989001710  0.019999841
## 139  0.496183003  0.26279070 -0.038390705  0.1261534310  0.101540363
## 140 -0.053152947 -0.16032734  0.933596744  0.1911770957  0.120321451
## 141 -0.032010057  0.28693862  0.696733646 -0.3166504255  0.073574249
## 142  0.255890402  0.08744424  0.197672566 -0.0964668312 -0.034648104
## 143 -0.005062408  0.76697253  0.068656565  0.1440491443  0.129041212
## 144 -0.176664198  0.20884592 -0.194169266 -0.0632621265  0.118146486
## 145 -0.207061387  0.27641543 -0.102212040  0.0479738180  0.332834187
## 146  0.154542943  0.98147121  0.174271413  0.6139589645 -0.049905270
## 147  0.130864588  0.43344372  1.012617684  0.0870106960 -0.171358239
## 148  0.065318937  0.19252791 -0.603283473 -0.2500622805  0.206243335
## 149 -0.137146379  0.09029968  0.349524241  0.6248871790 -0.080697072
## 150 -0.418339308  0.61601078  0.659940772 -0.2885606387 -0.001890077
## 151 -0.239471673 -1.39939711  0.618904339 -0.0745389460 -0.137996336
## 152 -0.063853327 -0.03457459  0.273129670  0.0807476150  0.099342406
## 153 -0.074300586 -0.26110202  0.316144770 -0.3921427305 -0.031091660
## 154  0.219857950  0.12903439 -0.891954528 -0.0729973337  0.033316812
## 155  0.234346553  0.76282807 -0.463736673  0.2155305332 -0.196772063
## 156 -0.319328469 -0.67494552  0.089738940  0.0816396260  0.001150837

```

```

##          pp_Raptor          pp_Rb pp_Rb.pS807.S811      pp_Rictor pp_Rictor.pT1135
## 1  0.283316230  0.0023495765      0.335146631  0.195325267      0.185633726
## 2  0.061041294 -0.0396013090      0.386021212 -0.213307026     -0.073387754
## 3  0.268390253 -0.1383311520     -0.313389172  0.609247557      0.050473828
## 4  0.634199553  0.3807892092      0.245451996  0.434065091      0.493546510
## 5  0.056193773 -0.0813559765     -0.103411269 -0.316077110     -0.031402715
## 6  0.510163317 -0.5866389805     -0.706196685  0.018772402     -0.421715124
## 7 -0.224414658  0.5145481750     -0.521933049  0.432280152      0.418429528
## 8 -0.064475186 -0.2632749865     -0.460245778 -0.049304882     -0.149828163
## 9  0.287838099  0.0414665605     -0.648135941  0.060932757     -0.116439086
## 10 0.221974550 -0.1781468273     -0.451683908  0.026338145     -0.171045896

```

## 11	0.342872195	-0.1722522510	0.134743979	-0.303101487	0.440401698
## 12	-0.232801795	0.0669377560	-0.071302411	-0.216524488	0.038450087
## 13	0.024257725	-0.2131186365	-0.079972799	-0.081168033	-0.093282196
## 14	0.397609298	0.1404331115	-0.805600384	-0.899187358	0.052993292
## 15	0.416962094	-0.1702996785	0.329320939	-0.057609530	-0.278415480
## 16	0.394521770	-0.1364258615	0.736754432	0.065849401	0.135812810
## 17	0.946638426	0.0387270680	-0.348759633	-0.251166862	0.080103078
## 18	0.554560930	0.0967975360	0.338708310	0.111155822	0.200306735
## 19	-0.312345298	-0.0094777670	-0.487748067	-0.151876932	-0.086256914
## 20	0.432821470	-0.0928974625	0.457514427	0.059669499	-0.020834801
## 21	0.497880844	-0.2108201420	0.380195911	-0.033523385	-0.193069109
## 22	-0.447333187	-0.0057136720	-0.002521382	-0.638083427	-0.100830669
## 23	-0.398392062	0.1215491975	0.247068384	-0.224622631	0.111587732
## 24	-0.439405232	0.1551209550	-0.956548625	-0.529735794	-0.012704677
## 25	0.256067636	-0.1993996700	0.157310699	0.036679312	0.120237584
## 26	0.396205329	-0.2567840625	-0.452789891	-0.535298244	0.384181469
## 27	0.548178864	0.0184367995	0.023218321	0.526996898	0.076493711
## 28	0.035661173	-0.0306291815	0.886207845	0.215823568	0.119083919
## 29	-0.462464384	0.8737007505	-0.309934088	0.814087402	0.604170755
## 30	-0.032343198	0.6736951600	0.411453548	-0.128522769	0.259516424
## 31	-0.153311236	0.7453861195	0.021810863	-0.234334557	0.046737256
## 32	0.233590540	-0.0322577135	0.145063362	-0.093847211	-0.549572109
## 33	-0.343380279	0.8111880400	-0.068203275	-0.451726996	0.014772313
## 34	-0.037303027	0.3957394690	-0.513925153	-0.001074102	0.242222184
## 35	-0.100700814	0.1766274690	0.589737262	0.184528814	-0.055377857
## 36	-0.427651115	-0.1212440070	-0.518813170	-0.588238055	-0.113803501
## 37	0.466564959	0.1259704865	-0.223960604	0.371835168	-0.471811553
## 38	0.038887426	-0.2140081010	-0.346161567	0.081490466	-0.176838818
## 39	0.243145169	-0.1563615310	-0.327913672	0.059118932	-0.231666761
## 40	-0.288284357	0.1353156905	-0.191376956	-0.185288486	-0.372630729
## 41	0.627034416	-0.1921898080	0.739442125	0.000365500	0.343562789
## 42	-0.176479830	-0.1940109405	0.367239257	0.521331974	0.363641055

## 43	-0.318545889	-0.0687116360	-0.180848196	-0.177645711	0.124050771
## 44	-0.397167700	0.9443529805	0.049721405	1.398840561	0.298843521
## 45	0.254577586	1.2258066700	-0.355279348	0.057761361	0.204576402
## 46	0.360989995	-0.0932646995	0.112097354	0.471076275	0.071986862
## 47	-0.048165870	0.3897207710	0.211573983	-0.130302632	-0.253594728
## 48	-0.659004677	0.5155719670	-0.557799207	0.396719680	-0.167410503
## 49	-0.291922392	0.9028574850	-0.155329499	-0.347874504	0.611594920
## 50	0.283261571	-0.0248117665	1.544647020	0.214744560	-0.013928797
## 51	-0.005065752	-0.2148003235	-0.155647296	0.063986624	-0.127509889
## 52	-0.375946288	1.2991124160	-1.183117012	1.604299517	0.901434953
## 53	-0.133127294	-0.0479270370	0.688080902	0.276377527	-0.017218275
## 54	0.175042949	-0.1952974710	0.234853461	-0.344738397	-0.259359072
## 55	0.000000000	0.5085677000	-0.395445575	0.262593634	-0.432593492
## 56	-0.194633363	0.2023655595	1.069518788	0.235314041	0.282774982
## 57	-0.140741242	1.0827511315	-0.532298813	0.647710027	0.483423000
## 58	0.017332329	0.3599212765	0.154410051	0.511723169	-0.445886760
## 59	0.015077926	-0.1832878920	0.561706681	-0.234336543	-0.389928045
## 60	-0.209879734	0.5536916285	-0.591887182	-0.014537052	-0.291690775
## 61	0.227383512	0.1991862015	0.297365447	0.006659338	0.227875667
## 62	0.488478978	0.2158404615	0.176936032	-0.045779825	-0.055589106
## 63	0.301409735	0.0308821010	0.185580215	0.109723993	-0.299981856
## 64	-0.156808440	1.2295686480	-0.457540805	-0.514448508	0.753077469
## 65	-0.410488339	0.2513965978	-0.775968692	2.690417939	0.322867090
## 66	0.689774754	0.1336102208	1.333990683	-0.288467846	0.060946610
## 67	0.022974600	0.5155473720	-0.775576719	0.258905486	0.334463530
## 68	-0.174239374	0.2826284782	-1.041476364	-0.094476260	0.625172211
## 69	-0.172163330	-0.0655947615	0.375879203	-0.496406054	0.006612040
## 70	0.120511959	0.2146731042	-0.115366931	0.249851606	-0.254198354
## 71	0.042945232	0.2079204062	-0.237909929	-0.785815550	-0.184166452
## 72	0.158957816	-0.0479785880	-0.794439395	0.462327594	-0.232540513
## 73	-0.495013462	0.0062338722	0.200478208	0.271679387	-0.093802533
## 74	0.445135762	0.2366701440	0.497230102	0.317200994	0.153623672

## 75	0.364519415	-0.3367727685	1.202251812	-0.008994810	-0.048798309
## 76	0.488788864	-0.2499385520	0.733961154	0.142920085	0.382344541
## 77	-0.419341077	0.7409909285	-0.310821085	0.206592655	0.189415776
## 78	0.061015073	0.0884175540	1.002600888	0.190055737	0.392480589
## 79	-0.003839957	-0.0285096765	0.695662268	-0.302020283	0.089355465
## 80	-0.120845070	0.2920357985	-0.354465664	0.066605686	0.285468611
## 81	-0.760906236	-0.2472433535	1.270364668	-0.086060662	-1.533863387
## 82	-0.467713840	-0.1291253125	0.614081970	-0.705452232	0.124607648
## 83	0.179022629	0.1573606820	0.479694557	0.790777413	0.261823586
## 84	-0.171323572	-0.0433109618	-0.116390218	0.274958332	0.281040686
## 85	-0.372092104	-0.2628222472	0.714133461	1.172915807	0.199672390
## 86	0.504422745	0.3908473025	-0.527638231	0.114746755	0.283820935
## 87	-0.242609577	-0.0594072463	-0.636326737	-0.335182886	0.060660490
## 88	0.000000000	0.0171117460	0.673426244	-0.118125453	-0.115862547
## 89	0.124664807	0.0187199530	0.460157818	0.178183297	0.091130931
## 90	0.353706386	-0.1640573332	0.664541285	0.632583009	0.677611043
## 91	-0.149940937	-0.0004570665	0.225266149	0.257854971	0.023315709
## 92	-0.088900054	0.2017771365	-0.541016244	-0.189357144	0.113507711
## 93	-0.208371957	0.3566779905	0.556166198	-0.254463494	0.112215307
## 94	-0.294689838	0.7005873323	-0.745274037	-0.720092530	0.221543340
## 95	-0.069394788	0.1219410440	-0.553795093	0.104738222	0.035847248
## 96	0.373599934	-0.3530157970	0.909005368	0.628085899	0.183675338
## 97	-0.534478202	-0.1853883797	0.757932706	-0.778407966	-0.107310693
## 98	0.091317967	-0.0800447905	-0.072975657	-0.095279489	0.211135765
## 99	0.080771197	-0.1973607710	0.923235698	0.331833876	0.375575605
## 100	0.306340566	-0.1393055250	0.789345629	0.210634173	-0.019197919
## 101	0.314275040	-0.2079026707	1.069972447	-0.302834126	-0.169726790
## 102	0.053453794	-0.0596335708	2.254022647	0.370238784	0.382295599
## 103	0.509490245	-0.1133407615	1.073814186	0.558696621	0.086540962
## 104	-0.379078052	0.4179632640	0.115330344	-0.016064732	0.030539045
## 105	0.685591698	-0.0568711485	0.755770051	0.199381006	-0.289304989
## 106	0.117422466	-0.1242783647	0.510687114	0.337524837	0.306209490

## 107	0.342170107	-0.1389060690	0.831595791	0.668091629	0.030756409
## 108	0.583282645	-0.2262040025	0.802920065	0.083380134	-0.101989602
## 109	-0.619217591	0.4518827380	-0.293691739	0.183586714	-0.097364501
## 110	0.034723770	-0.0588549110	1.015775547	0.080985791	0.077969397
## 111	0.413536797	-0.0777325155	1.114018354	0.135266818	0.159459046
## 112	-0.222082610	0.3129540115	-0.280228263	0.510447084	-0.022663483
## 113	-0.205832377	-0.0451100145	0.246580934	-0.697878664	-0.063398072
## 114	0.561630268	0.0048596515	0.599150658	0.050696940	0.040206705
## 115	-0.285974222	0.0771912820	0.940688044	-0.235849655	0.107029228
## 116	-0.086605372	-0.1751006723	0.397722987	0.313641521	-0.012175231
## 117	0.086819123	0.0841288523	0.642191117	-0.525784421	0.230461351
## 118	-0.306737452	-0.1552824900	0.674131008	-0.024198870	0.074726857
## 119	-0.192350993	1.0636750130	-0.622123009	-0.524551810	0.772292698
## 120	0.078845361	-0.1173278070	0.458389665	0.107709071	-0.092260474
## 121	0.248225454	-0.0931544847	0.074608733	0.060645266	0.121485488
## 122	0.055579883	0.0937823075	1.413608551	0.794723639	0.328694706
## 123	-0.104553026	0.0454953195	0.777141508	0.599230034	0.056821054
## 124	-0.327460645	0.2175697730	-0.041676194	-0.282003364	-0.103568906
## 125	0.113649507	-0.1396611090	0.790999607	0.700803922	-0.134625248
## 126	-0.112792803	0.6552383635	0.095620138	-0.234593930	0.035514412
## 127	-0.145817652	-0.2014867440	0.327676976	0.229341321	-0.233044013
## 128	0.787808299	-0.1455778245	1.309412696	1.040953589	0.089553537
## 129	0.542620539	-0.1768286615	-0.196486010	-0.318225620	-0.077466025
## 130	0.113307062	-0.0971439275	0.398335965	-0.254688380	-0.068672317
## 131	-0.140342414	-0.0454377195	0.290286020	0.385930430	-0.173574606
## 132	-0.359118023	0.1772742770	0.037087706	1.350067736	0.053468105
## 133	-0.081120060	-0.1117292095	-0.416783195	-0.107447457	-0.174112765
## 134	0.133531586	-0.3813716133	0.226829442	-0.030539906	0.124325176
## 135	-0.388719554	-0.0342494647	0.119176588	0.286648737	0.041663952
## 136	0.321923779	-0.2219873157	-0.336481700	0.882313319	-0.185677352
## 137	-0.178585320	-0.0707526902	-0.479824134	0.112971926	-0.292048449
## 138	0.239640986	-0.2234883610	0.749965453	-0.161245763	-0.116694301

## 139	0.177867396	-0.0834219470	-1.155533617	0.317114962	-0.161204991
## 140	0.121571032	-0.0151445323	-1.243938482	0.244616680	-0.147290472
## 141	-0.232949270	0.0626524735	-0.670072471	0.021091011	-0.056237395
## 142	0.390130846	-0.2115406713	0.568537396	0.204534096	-0.038153978
## 143	-0.208001951	-0.1314602667	1.082274177	0.118082696	0.212355444
## 144	-0.234335811	-0.1210299085	0.446104191	0.094649353	-0.041819257
## 145	-0.390967796	-0.0778539510	1.331821808	-0.620638628	-0.066656547
## 146	0.541790020	0.1176039850	-0.636893682	0.674147905	-0.171807669
## 147	0.264906370	-0.0975983615	0.517866339	0.047773867	0.062716225
## 148	-0.168074978	-0.0047213545	-0.577587428	0.503303891	-0.103273292
## 149	-0.247882461	0.1524054400	-0.272067628	0.461125623	0.017837552
## 150	0.346535653	0.0317076342	0.125122227	0.036857982	0.034523333
## 151	-0.125452056	0.2369813620	-0.089987766	0.541571746	0.166839577
## 152	0.145572437	0.0065174080	0.550821033	-0.170477519	-0.084814027
## 153	-0.087845722	-0.1021732015	0.681136411	-0.328324371	-0.001733081
## 154	0.154114283	0.3518837452	-0.575419417	0.013843090	0.386017529
## 155	0.106034969	-0.3455841398	0.240808879	-0.020710668	0.104111583
## 156	-0.178784853	0.5140958825	-0.327993593	-0.022479513	-0.018540799

##	pp_S6	pp_S6.pS235.S236	pp_SCD	pp_SETD2	pp_SF2
## 1	-0.341249183	-0.5866931440	-0.2646233725	-0.1182618720	-0.060414833
## 2	-0.483816692	-0.1652933955	-0.2476711040	-0.0592630245	-0.093825209
## 3	-0.394180234	-0.3894903205	-0.1912805700	0.2367413845	0.002676048
## 4	-0.025119984	-0.4982784403	-0.0754372028	0.0407104977	-0.090468838
## 5	-0.590388500	0.5601167780	-0.1680255905	-0.0178806250	-0.117905861
## 6	0.751292061	0.3523461640	0.0393159675	0.0032509290	-0.184008005
## 7	-0.346051935	-0.3494104635	0.0317788010	0.3065440915	-0.064444961
## 8	0.362820019	-0.1412511120	0.0264975915	0.0384362410	0.109711766
## 9	0.543481257	-0.0056525160	0.1830268495	0.1597345570	0.369172729
## 10	0.400371491	0.2491974252	0.0895566067	0.0385780673	0.110218676
## 11	0.300630352	-0.1269371995	0.1933736280	-0.0004456495	0.367237873
## 12	0.086311065	1.4637120715	0.3172977770	-0.0559150285	-0.199648124
## 13	0.157415675	0.8882963290	-0.1181381005	-0.1488197690	-0.401706241

## 14	-0.523182212	-0.4965021170	0.2656455965	0.2043851380	0.028239766
## 15	-0.004391380	0.2569525350	0.2755275815	0.0000000000	0.081537672
## 16	-0.389519633	-0.0194234160	0.1708068805	-0.1774372210	-0.089938690
## 17	-0.782860099	-0.8951697665	0.1454013380	0.0857004735	0.287294842
## 18	-0.254126945	0.0660941735	-2.0471327210	-0.1907127775	-0.092340466
## 19	-0.740577691	-0.8811633465	0.0362265500	0.1736191575	-0.124101042
## 20	-0.146048115	-0.2363426710	0.9522959755	-0.0815510490	0.053707699
## 21	-0.242903340	-0.2490718495	0.9670400620	-0.1357407915	-0.178704906
## 22	0.748115389	0.4622202825	0.5961549320	0.0911077305	0.116565151
## 23	-0.144542807	0.5392930150	-1.6745635295	0.0667155620	-0.070234969
## 24	0.182524987	-1.1478563315	0.0026616110	0.0689492345	0.084157797
## 25	0.037699500	-0.5994635205	-0.2633269220	0.0646202835	-0.173391937
## 26	0.263213748	0.7866964940	-0.4050572725	-0.1648406660	0.032203178
## 27	-0.411325440	-0.0828365140	0.3586971745	-0.1334106490	-0.165239974
## 28	0.251305126	-0.0006059280	0.4066556765	-0.0839447430	0.062023690
## 29	-0.328181049	1.9309956920	-0.8772094735	0.5552562400	0.149610615
## 30	-0.711965629	-1.0415694975	-0.3371571470	0.2775653115	0.133915420
## 31	-1.076914302	1.0250893880	-4.6852755075	0.2057908150	-0.017838000
## 32	0.082117471	0.9061840190	-5.9152833635	-0.6347795820	-0.104730504
## 33	-1.247909216	0.4078561735	-3.8069814540	-0.3864968635	-0.232732031
## 34	-1.335252067	-0.6460673695	-0.3986397410	0.0526405905	-0.052672796
## 35	-0.571834241	-0.2087204915	0.2512996900	-0.1943384995	0.042885432
## 36	0.464842606	1.4893342045	-1.5854544940	0.1759846605	0.031741099
## 37	0.254339474	-0.1138354500	-5.1745853285	-0.3558957650	-0.100182732
## 38	0.158317040	0.5627468625	0.4107819460	-0.0823786495	0.164524835
## 39	0.198481138	0.5216065335	0.4597764470	-0.0723771125	0.139892708
## 40	0.272830761	0.4727653420	-0.1142263995	0.0519254580	-0.014918817
## 41	0.555625144	1.0349132835	0.0256885500	-0.1604650565	0.043151529
## 42	0.152298199	0.6155201710	1.1963346045	-0.1223131090	0.112030549
## 43	0.302334237	0.7499049335	-0.0186479370	-0.0378300305	-0.052451106
## 44	-0.744303247	0.0509524300	-2.9557152255	0.2755912760	-0.142343421
## 45	-0.719776491	-0.3545427215	-4.0202638170	-0.2265645865	0.288449852

## 46	-0.025142702	-0.8868623050	0.3104148305	-0.0164219600	-0.138125568
## 47	-0.378399488	0.4371223765	-5.0936070620	-0.4514567565	-0.254242908
## 48	-0.415783181	-0.0658450065	-3.3585533610	0.1027363015	-0.399888984
## 49	-1.328323780	-0.0803750015	-0.5174161980	0.6413845725	0.084406527
## 50	-0.606328835	0.5719456470	-0.4807924545	-0.1379351820	-0.103912515
## 51	0.368114152	0.6432565730	-0.4532504605	-0.1848521800	-0.337615482
## 52	-1.295510955	-0.8054821385	-1.5763904080	0.9481079605	-0.038386993
## 53	0.111025772	0.2405105165	-1.6845246880	-0.2242253575	-0.083308715
## 54	0.145355303	1.1192265825	1.2536101000	-0.1800140455	-0.110022060
## 55	-0.403928583	-0.9132129795	-4.9611894750	-1.3347108935	-0.116882603
## 56	0.000000000	1.1446675630	-0.2428784525	-0.0524228550	-0.088978637
## 57	-0.629416927	0.3535822440	-1.5263770015	0.5367661160	0.049754998
## 58	-0.134476786	0.1003447690	-1.8985992645	-0.3242938560	-0.371792157
## 59	0.455807423	0.8204903515	-5.7790333870	-0.3298405325	-0.357899352
## 60	0.028537582	0.1705863640	-1.0037199005	0.0678133160	-0.267985248
## 61	-0.881979056	0.3791121970	-0.2638921115	0.1724109910	-0.027221846
## 62	-0.442794334	-0.9969860570	0.5697049335	-0.1879314440	-0.048639374
## 63	-0.036135037	-0.4014200025	0.1590916410	-0.0212878925	0.062972199
## 64	-1.891931141	-0.9876739405	0.0015739470	0.6156530745	-0.212660145
## 65	-0.171423902	1.1198695927	-0.0589669568	0.2686875763	-0.080474739
## 66	-1.021819504	-0.8034494427	-0.1922116973	-0.2878096598	-0.271411381
## 67	0.004216214	0.2681396235	-0.1954708650	0.6353703745	-0.346056372
## 68	-1.705639870	0.3865186642	0.5083399967	0.6447859978	0.385723037
## 69	-0.636858221	-1.6027690995	-0.2115475690	0.0760356580	-0.110109573
## 70	0.439887559	-0.3619987857	-0.2525285562	-0.0934876673	-0.132649538
## 71	0.643949429	-0.3971519937	-0.0966925232	0.2895515598	-0.049723977
## 72	0.760270144	0.8189668050	0.0179156255	0.1654225975	0.156842900
## 73	0.257167213	-1.1694180977	-0.3002505433	-0.0894381273	-0.194027027
## 74	-0.234541749	0.3418839115	-2.8999952460	-0.1408370265	0.058982201
## 75	-0.172696234	0.8797894830	-0.3116926275	-0.2038915620	-0.025183728
## 76	0.094306282	1.7094132555	-0.0084389020	-0.2534565585	-0.010023179
## 77	-1.070883432	-0.9523882570	-3.4314057895	0.2318551330	-0.027593971

## 78	-0.378597927	0.0737573335	-0.0832613190	-0.0025636375	-0.171116413
## 79	-0.767074179	-0.8028038750	0.1249822485	-0.0983253270	-0.095640982
## 80	-0.650712180	-1.0322198380	-0.2715865145	0.1231611130	-0.306859138
## 81	0.869573967	1.4770048675	0.7366484855	0.8652164510	1.342168940
## 82	0.213291269	0.8207221695	0.5203439445	0.3083800430	0.685886242
## 83	-0.107965891	0.0025900530	-0.0491283815	0.1168650955	0.127549892
## 84	-0.270586698	-0.0672135808	-0.0462016612	0.1418636987	-0.027460296
## 85	0.704535750	0.6014428567	-0.3261577817	-0.1126710917	-0.257916507
## 86	-0.718976001	-0.5988626030	-1.7783492675	1.4143213330	0.177865124
## 87	-1.062879833	-0.6455108717	0.4921489627	0.1669798433	-0.060428577
## 88	0.101781794	0.7379735505	0.1128653270	-0.0855026375	-0.029772037
## 89	0.188481990	1.1453462915	0.2252800740	0.0687184695	0.114855992
## 90	0.616304472	0.2909012603	1.5957036957	-0.0477425877	0.191699868
## 91	0.167151468	1.3057073880	-0.0656801535	-0.0789102670	0.016085630
## 92	-0.166202459	0.9236274960	-0.3732761465	0.0416996570	0.153144974
## 93	-1.359227074	-1.3195432940	-0.2868563375	0.1681469940	0.078328707
## 94	-1.367526443	0.0998490587	0.3574500333	0.4773952658	-0.150335048
## 95	-0.231591819	0.2029762695	-0.2534631390	-0.0393213825	-0.092038779
## 96	-0.041228520	1.2584253715	0.2466884840	-0.2699952365	-0.039884933
## 97	0.535453750	0.2868435058	0.0470439352	-0.0509709903	0.192642507
## 98	-0.833078970	0.3182272260	-5.5328137835	-0.3581811750	0.238886458
## 99	0.262843234	0.0640764155	0.0000000000	-0.3117815085	-0.086941853
## 100	-0.083026131	0.3668151125	1.2454289930	-0.1635759105	-0.246298332
## 101	0.319210318	0.2515112347	0.3504474053	-0.1022412463	0.340629297
## 102	0.523354584	1.0144948477	0.0006083182	-0.3015131912	0.332099023
## 103	-0.108570164	-0.1695050890	0.3093359385	-0.1813218790	0.127725280
## 104	-1.113437608	-0.9840878345	-0.2647724370	0.1182198795	0.325915952
## 105	0.042048955	-0.1582866470	1.2538785325	-0.0139512820	0.003694622
## 106	0.116732531	-0.3796074712	0.0527468362	-0.1184827662	0.169402771
## 107	-0.137445837	-0.4197970075	0.1677925320	-0.2477567305	-0.047766688
## 108	-0.264676601	-0.0774596330	-0.2130189585	-0.2644217520	-0.147952410
## 109	-0.364123912	0.4070801365	-5.7717982090	0.1914431935	-0.074668308

## 110	0.053687071	0.5891616565	0.9743499880	-0.0553279155	-0.135324116
## 111	-0.104869161	0.5372215530	-0.0158010425	-0.0913880470	-0.072829082
## 112	-0.073556994	0.6711145770	-0.4755704375	0.1029452450	-0.077873487
## 113	-0.070124668	0.8089950290	0.6751736035	-0.0755712310	0.066178952
## 114	0.158732548	0.3945804910	-3.8813499225	-0.3741121600	0.045166110
## 115	0.109452158	0.7986553375	0.0032903220	0.0061704135	-0.003243935
## 116	-0.186514994	0.3578026543	-0.1853502862	-0.0983293437	-0.116199807
## 117	-0.620635778	0.3980813628	-0.1546061817	-0.0796029712	0.049861557
## 118	0.423076483	1.4098901845	0.1694392110	-0.0351249045	-0.104664013
## 119	-1.443177853	-0.2721786955	1.0276326210	0.5775208805	0.289991131
## 120	0.235714937	-0.6726977155	0.0640695510	-0.0685403455	0.352158729
## 121	-0.055760142	0.3132767317	0.3484601232	-0.0981333642	0.172128528
## 122	-0.374357795	1.0991942340	-1.3785913895	-0.0494028700	0.162359259
## 123	0.268623149	-0.2223661880	-1.8403088225	-0.2767950030	-0.076777627
## 124	-0.101775530	0.1773055945	0.1989874620	0.1017688335	-0.095665491
## 125	0.472571222	0.3973957165	0.5421053910	-0.2349014415	0.025444778
## 126	-0.635434938	-0.3446170560	-0.3063646065	0.1908654510	-0.119183297
## 127	0.054790881	0.8627557535	0.7348472040	-0.1827423045	-0.097766787
## 128	-0.033412798	0.7876101270	0.0476504595	-0.1816543190	0.096363434
## 129	0.052184952	0.3240692360	-3.9818266065	-0.4638358220	0.108533353
## 130	0.289437475	1.0750769600	0.4764745315	-0.0449827490	0.174850979
## 131	0.121503538	-0.4804401140	0.6908261205	-0.0862142800	0.125171737
## 132	-0.207124153	-0.5504423615	-0.1948330230	0.0068290355	0.200011685
## 133	0.242241832	1.6047525610	0.1764897705	0.1416068550	0.004240476
## 134	-1.092678377	-0.2173459313	0.2835376372	-0.0637704127	0.329718489
## 135	-0.473860362	-1.5001620738	-0.1421653452	0.0888022768	0.043672066
## 136	-0.443933679	-0.5941587493	-0.1653246607	0.1183304817	-0.056485012
## 137	0.794010409	-0.3879299637	0.1218745518	0.2123994983	0.181309367
## 138	0.546081796	0.0008990645	0.0401452400	0.0318500215	0.268821042
## 139	0.463722908	-0.1054772515	0.2395537350	-0.0041215845	0.353688467
## 140	0.850021802	-0.0663805298	0.5097948918	0.1161461363	0.189941239
## 141	0.347433363	0.3706542720	-0.0309957085	-0.0105226400	0.125131954

## 142	0.613337780	0.8008439483	0.2656595138	-0.1445191658	0.148155263
## 143	1.176275900	0.3236505598	-0.1339671608	-0.1109203273	0.152552731
## 144	0.819451416	0.7948025630	0.9961046905	-0.1377001090	0.105584845
## 145	0.367101507	0.6789154525	0.0345085570	-0.1048386495	0.070250423
## 146	0.300539577	-0.4529478685	-0.0083870320	-0.0907244055	0.161584305
## 147	0.151972043	1.1489092180	-0.1436507795	-0.0906396810	0.063562932
## 148	0.685220321	-0.2460725610	0.0998028835	0.1288020620	0.116963309
## 149	-0.228334816	-0.3724127295	0.0865267540	0.1643245945	0.262313305
## 150	0.225099332	-0.5502357703	0.1084896973	0.0100753487	0.132359991
## 151	-0.800367941	-0.4926716845	-0.3491986000	0.0787907885	-0.087062533
## 152	0.210473565	0.2330289655	0.6083373510	0.0283774365	0.420987532
## 153	0.339649816	1.0663241890	0.6884449405	0.1969187530	0.151093944
## 154	-0.739232769	-0.3929304693	-0.0014146388	0.1543947978	-0.058062503
## 155	0.190940916	0.2101436577	0.0403883212	-0.0542612502	0.239602067
## 156	-0.255141394	-0.1483775900	-3.1839602185	0.0740292900	-0.272004496
##	pp_SHP.2.pY542	pp_SLC1A5	pp_STAT3.pY705	pp_STAT5.alpha	pp_Shc.pY317
## 1	0.344446558	-0.2184633225	0.493888088	0.442167619	0.103690182
## 2	0.210220930	-0.4542298860	0.102849677	1.426873610	0.389932524
## 3	-0.399697733	0.0157218510	-0.330343904	-0.423654062	-0.108136405
## 4	-0.389739232	-0.5847258307	-0.205186850	0.053010327	-0.261496561
## 5	0.281263243	-0.4846572495	0.219283879	-0.197657424	0.051997170
## 6	-0.067088756	1.0362602595	0.058915168	0.113394993	0.146630654
## 7	-0.011713024	-1.0816256720	0.181667781	0.049955898	0.245238693
## 8	0.071543638	-0.0478547555	-0.264210893	-0.052351677	0.084007710
## 9	-0.191833921	-0.0389430005	-0.009781143	0.110293651	-0.150026165
## 10	-0.157489537	-0.2273715213	-0.105475144	0.074235676	-0.207702807
## 11	-0.209535726	0.0562460020	-0.251292959	0.071314263	0.032236084
## 12	-0.004940779	-0.1982115170	0.384035572	1.142294917	-0.104652364
## 13	-0.216010226	0.3286963045	0.236006981	0.587540826	-0.122131699
## 14	0.047076467	-0.2829002425	-0.491073898	-0.973152461	0.035596506
## 15	-0.369328590	0.3692417795	0.077234289	0.580720772	0.081331466
## 16	-0.450219322	-0.5896380005	-0.149159539	0.742856773	-0.078348883

## 17	-0.195023994	0.2548998880	-0.100075178	0.672067369	-0.061227555
## 18	-0.296654213	0.2448172250	0.114631635	1.383920899	-0.354504887
## 19	0.001892905	-0.5441956600	0.887833773	0.090592373	0.040384972
## 20	-0.225355828	0.1508462195	-0.433494459	0.531651469	-0.249384259
## 21	-0.021992554	-0.0782159480	0.175452607	0.575599982	0.134096750
## 22	-0.547294790	0.4406567300	0.119467210	-1.465524363	-0.440106080
## 23	0.550683238	-0.8934092045	-0.380235553	-0.782040570	0.632055537
## 24	-0.120344916	0.8265054810	-0.648920461	-0.187216104	-0.104656646
## 25	0.120259942	-0.5756124090	0.101437676	1.506103722	0.272212522
## 26	0.028672391	0.7214814355	-0.279704114	-0.180608824	-0.030981322
## 27	-0.040044427	-0.4584853335	-0.019072521	0.788128710	0.008109001
## 28	-0.162156956	-0.3289388815	-0.019139357	1.039689511	0.166986021
## 29	0.581955805	-0.7337217965	0.784597917	-0.278671801	0.504654085
## 30	-0.085218853	-0.1323579220	0.238909361	-0.284767868	0.065973458
## 31	0.390539407	-0.7260115965	0.191072781	-0.981445427	-0.471830605
## 32	-0.485361000	-0.1543105175	0.264496012	0.349248196	-1.094211342
## 33	-0.219891178	-0.7016940660	1.083795275	0.192590965	0.416719693
## 34	0.078374736	-0.5274432710	0.017273578	0.243685788	-0.034111542
## 35	0.095450418	-0.1116616110	0.078261582	0.294627556	0.202437676
## 36	0.161462862	0.3584433730	-0.107970330	-0.510717087	-0.002559986
## 37	-0.786104114	0.1366800545	-0.126294823	0.795876514	-0.570394472
## 38	-0.318152757	0.6711689500	-0.159043868	-0.062431650	-0.181875532
## 39	-0.313419432	0.6349073590	-0.093277500	-0.005584665	-0.107935592
## 40	-0.143753626	0.0004924935	0.023532729	1.201206020	-0.083557593
## 41	-0.169649352	0.3364923020	0.133661908	1.782835992	0.314130906
## 42	0.143144751	0.3588282225	-0.247791238	0.683293541	0.475165171
## 43	-0.360021665	0.7493931030	0.000000000	1.693964043	-0.035676119
## 44	-0.306081362	-0.8775550755	-0.334940742	0.116822561	-0.116341721
## 45	-0.537942377	-1.0252660010	0.554163974	-0.315321763	0.484246469
## 46	0.030081692	0.0861339235	0.674106992	2.113860352	0.258599292
## 47	-0.830996202	-0.9882465150	-0.115559925	0.852001393	-1.632020757
## 48	-0.239852939	-0.2505067360	0.423717870	0.138676595	0.482469892

## 49	-0.475638416	-1.4318320960	0.011946606	-0.240649988	0.605516675
## 50	-0.068256384	-0.1862760395	0.256226342	0.455609070	-0.031941600
## 51	-0.187373639	0.1240170655	0.099259889	-0.346928817	-0.323097746
## 52	0.041485621	-1.7370755020	0.763989396	-0.698559451	0.555000274
## 53	0.879299090	0.8275727910	-0.107903531	0.060854797	1.396145979
## 54	-0.305635889	0.9986757620	-0.269057399	0.869122150	-0.182553108
## 55	-1.058181492	0.4080742400	-0.050472289	0.772001882	-1.499603170
## 56	-0.031579727	0.1014266585	0.405420367	0.394546986	-0.064787569
## 57	0.064032722	-1.3539025835	0.008764066	0.029958110	0.149069475
## 58	-0.665665127	-1.8793505335	0.723029003	0.628966034	-1.573369645
## 59	-0.239758888	0.1533877860	-0.058396215	1.149585537	-0.177133503
## 60	-1.043442794	0.5757417715	0.020433983	-0.042622013	-2.056738967
## 61	-0.312245261	-1.1698035485	1.119286624	-0.250360906	0.143782421
## 62	-0.579342230	0.5549335145	-0.542116114	0.344705211	-0.304605996
## 63	-0.066010923	-0.0088959060	0.133716999	0.183881853	-0.068043781
## 64	-0.555073978	-1.0743797580	-0.176337104	-0.378084189	0.105703357
## 65	0.260895091	-1.1826273158	0.586238739	-0.605960903	0.284229892
## 66	-0.741033577	0.3052975278	0.310306713	0.536856441	-0.616310753
## 67	0.095348774	-0.6845305900	0.715867940	0.692615523	-0.055188948
## 68	0.469208057	-1.0031283152	0.557433777	-1.147376570	0.043410187
## 69	-0.474280210	-0.2470727460	-0.089570447	-0.756902837	-0.189661634
## 70	-0.437253673	0.9716691137	-0.450408609	0.430433822	-0.093948203
## 71	-0.281335986	0.9246921397	-0.300519799	-0.512962480	-0.112028764
## 72	-0.155270463	-0.7925761515	0.765844527	-0.393596515	-0.136872599
## 73	0.134544156	0.3430882168	-0.060366089	0.803792248	-0.071104682
## 74	0.087753714	0.4760088530	-0.248277063	0.311858945	-0.095700071
## 75	0.232174415	0.2557358205	0.233287524	0.913218649	0.187156085
## 76	0.041908551	0.4653671570	-0.424540940	-0.115144412	-0.282865780
## 77	-0.135487088	-1.3787859785	0.392256893	0.003198737	-0.535248791
## 78	0.238365143	-0.0745003930	-0.083052892	1.105302464	0.269708457
## 79	0.404709467	-0.2881006015	0.102125820	0.275901619	0.100330527
## 80	-0.083366736	0.4772748555	0.202271954	0.908646531	-0.087097365

## 81	0.019861383	0.1662299286	-0.512389796	-0.571810913	0.471129299
## 82	-0.379607388	-0.0043231694	0.212549267	0.689317812	0.207550454
## 83	0.210344824	-0.6619562575	0.085104343	-0.185150712	0.059807625
## 84	-0.004417101	-0.3835291163	-0.012781215	0.303490323	0.082397615
## 85	-0.211630770	0.7431728352	-0.370592589	1.069895705	0.002273631
## 86	0.143895984	-0.1979639765	-0.242398052	-0.145518447	0.241366188
## 87	0.783165630	0.2201897748	0.390575988	-0.001010094	0.394216181
## 88	0.015119325	-0.0860603860	-0.152976191	-0.001504831	0.165798902
## 89	-0.131997347	-0.3442156950	-0.070201671	0.050059424	0.181121461
## 90	-0.366286214	0.7502312528	-0.296983738	0.001602845	-0.063702135
## 91	0.172891866	0.4169975505	0.104543686	0.217253588	-0.459124601
## 92	0.362299359	-0.1067087415	0.453723090	0.016488884	0.114637334
## 93	0.685409652	0.3621476895	-0.045189343	-0.224801502	0.003827247
## 94	1.120525812	-0.7511685858	0.845121175	-1.176425635	0.350925613
## 95	0.324918998	-0.3662800610	0.764865439	-0.004780322	0.064065530
## 96	0.650841646	-0.5059271270	0.148197897	0.328208933	1.071867789
## 97	0.558110128	0.4849211912	0.352781339	-2.026769620	0.447764686
## 98	0.197840412	0.3274938445	0.067287720	-0.697940419	-0.241988993
## 99	0.048530098	0.7209350800	0.505999993	0.920996337	-0.143821881
## 100	-0.181910626	-0.1289784510	-0.560114094	0.894725102	0.022311309
## 101	-0.002243682	0.7878665742	-0.075196605	-0.166931185	0.089068043
## 102	-0.058337026	0.3480803862	-0.447224438	0.919118371	-0.284713147
## 103	0.170539478	0.2892770595	-0.211938606	0.782831833	0.367709975
## 104	0.545609956	-0.1214917200	0.019632266	-0.350796257	0.260749942
## 105	0.318285982	0.6465955305	0.127320579	-0.337214426	0.191757367
## 106	0.224688255	-0.1855214098	-0.379132014	-0.445008983	-0.213514949
## 107	0.439507890	-0.1361245480	-0.165532824	1.426485733	0.236262900
## 108	0.338092248	0.0905511835	-0.286115607	0.900505770	-0.166730426
## 109	-0.016360771	-0.2521173670	0.008115928	0.705476729	-0.015024001
## 110	0.975318980	0.3642826100	-0.164829237	-0.471429216	0.758263581
## 111	0.000000000	-0.4419967065	-0.053912328	0.604335160	0.090676232
## 112	0.940349824	0.1377020375	0.872818587	-0.370216416	0.357954271

## 113	-0.187153549	0.1755001095	0.078700600	-0.971321284	-0.303692302
## 114	0.327533440	0.2457483655	-0.187600736	0.727295541	0.170303628
## 115	0.438871617	0.1672947500	-0.119492348	-0.076224175	0.216993852
## 116	0.620064294	-0.5730354202	0.257733245	-0.123941410	0.091937206
## 117	0.194403739	0.1457158963	-0.273292576	-0.106033880	-0.124349457
## 118	-0.123936679	0.7666657650	-0.079269983	0.796418683	-0.394502463
## 119	-0.129006099	-1.0790439170	-0.054674560	-1.546710813	0.515563539
## 120	-0.046427053	-0.1664860830	-0.321615539	0.287740658	0.045394515
## 121	0.443486429	0.3790837652	0.057944826	-0.538990619	0.039365530
## 122	0.632962453	-0.1797030995	0.714789370	0.224801876	0.000000000
## 123	0.251344094	0.5175138395	0.028265835	-0.356957011	-0.034885854
## 124	0.445562067	-0.2891776650	-0.080031531	0.510408210	0.443915192
## 125	0.087838390	0.4689120840	-0.256512654	-0.076887254	0.246749423
## 126	0.507624076	-0.7976334855	0.052782033	-0.169004397	0.170634739
## 127	-0.151150737	0.1797378500	-0.399398764	0.605017702	-0.207013810
## 128	0.314556361	0.5223420545	0.027116524	1.838575365	0.604412873
## 129	0.339163405	0.8320396075	-0.054779740	0.494123345	0.193150807
## 130	0.124157746	0.8212078655	-0.173741595	0.289973983	-0.247516378
## 131	0.016732031	-0.2363537105	0.353753806	1.220805523	0.194686646
## 132	0.522242649	0.0300373530	0.656128857	0.153346946	0.272431324
## 133	-0.006767712	0.6417973105	-0.084838759	0.713661020	-0.165822597
## 134	0.309641985	-0.5422207357	-0.250049756	0.366257901	-0.032941382
## 135	0.033918727	-0.3440957582	0.025238036	-0.199541383	-0.099762360
## 136	0.146178639	-0.1424808677	-0.008730717	0.560331169	0.112550064
## 137	-0.322740746	0.5548459138	0.199560398	-0.495613698	-0.114929715
## 138	-0.189183787	-0.1347849570	-0.650830071	0.864370051	0.054653745
## 139	-0.443548787	0.3797223660	-0.288575484	0.021544927	-0.047102389
## 140	-0.268299108	1.4114025528	-0.944657082	0.077724816	-0.124992151
## 141	0.366205656	-0.1548334635	0.146886995	-0.808058361	-0.124271363
## 142	0.018307781	0.6490768437	-0.048740110	0.111944658	-0.107925168
## 143	0.155189001	0.2966012873	-0.774537756	0.031987616	-0.034111602
## 144	-0.050873068	0.4799730215	0.339981409	-0.306734931	-0.123780335

## 145	0.019961313	-0.0659471920	-0.218525029	-0.679330887	-0.155533611
## 146	-0.424013812	0.4561455000	-0.206332830	0.759897794	-0.419474907
## 147	-0.502097720	0.4173453645	-0.290399876	0.760334955	0.025690980
## 148	-0.228889792	-0.0152651485	-0.250247909	0.022864632	-0.022058230
## 149	-0.005290367	0.3528084350	0.425082437	-0.547197569	0.107861444
## 150	0.008365801	1.0849084893	-1.029010475	-0.636445123	0.038789208
## 151	0.432383078	-0.4938035530	0.893565142	-0.585050338	0.233123845
## 152	0.086348546	0.8069809090	0.257615519	-0.495971023	0.190120715
## 153	0.792083642	-0.2671194585	-0.368092584	-0.886981312	0.832997264
## 154	0.038597575	0.1264579913	0.122003222	-0.963429146	-0.041284562
## 155	0.058036292	0.0344469202	-0.236507372	-0.489054409	-0.153890035
## 156	0.193807749	0.0882289405	0.124246488	-0.288095901	-2.103101118
##	pp_Smac	pp_Smad1	pp_Smad3	pp_Smad4	pp_Snail
## 1	-0.112601177	-0.0982216240	-0.118470537	-8.358560e-02	-0.242821359
## 2	-0.073883098	0.2120206850	-0.043888374	-9.805324e-02	-0.120880097
## 3	-0.237433829	0.0047138275	-0.014652558	6.907104e-02	-0.290072566
## 4	-0.349016802	0.0351512258	0.237369064	-9.829108e-04	0.221373466
## 5	0.317193095	-0.1380649020	-0.329230695	-2.900260e-03	-0.040498038
## 6	-0.077257872	0.3681804815	-0.398338798	-1.957356e-01	-0.038276717
## 7	-0.341248946	-0.1985590735	-0.177018985	2.183534e-01	0.048926676
## 8	0.173939504	-0.0925439850	0.089098654	2.322619e-01	-0.092689551
## 9	0.228386726	-0.0141211930	0.479673029	1.547309e-01	0.241847050
## 10	0.597378942	0.2121943923	0.251547327	1.303850e-01	-0.060584415
## 11	0.328223153	0.0896633775	0.051339584	-2.387907e-02	0.066409813
## 12	-0.345012834	-0.1403684500	0.035843500	-7.071063e-02	-0.110390248
## 13	-0.143401688	-0.1096257285	-0.220995841	-1.900060e-02	1.002502890
## 14	0.762036304	0.0617685415	-0.204876481	-7.087142e-02	0.121720136
## 15	0.297155249	0.2507352435	0.325668990	2.060125e-01	-0.129830283
## 16	0.137857992	-0.0238819785	-0.182208166	-1.404214e-01	-0.110645630
## 17	0.361856880	-0.0397440200	0.101043756	-5.506652e-02	-0.142558154
## 18	0.805360610	0.1329003260	0.256183074	-6.137570e-02	-0.247754069
## 19	0.401370088	0.0862127480	-0.121153962	1.328583e-01	0.019048374

## 20	0.371896733	-0.1381172045	0.238496906	-2.202991e-01	0.205126879
## 21	0.385061058	0.1994916980	-0.175395267	-2.029270e-01	0.135351625
## 22	0.231903517	-0.2422422250	-0.156475617	2.261513e-01	0.607050276
## 23	0.224512158	0.1290191155	-0.331372626	-1.038883e-01	-0.159574776
## 24	-0.297941167	0.0856327355	-0.186213571	1.770834e-01	0.291148586
## 25	-0.067386394	-0.0126660310	-0.145650646	-8.783618e-02	-0.224231918
## 26	0.622685558	-0.4333059645	0.165107117	5.509448e-03	-0.325827142
## 27	0.103139104	0.0143930715	-0.089941513	-9.666593e-02	-0.035124527
## 28	-0.447774059	0.2037667015	-0.011044981	-9.804639e-02	-0.169147137
## 29	-0.495477305	0.1719848935	0.136994404	5.183517e-01	0.496556867
## 30	-0.076042814	0.0880071840	0.048885838	2.082913e-01	0.776804157
## 31	0.670249862	0.0897303925	0.048870605	4.196865e-01	0.448007854
## 32	0.016828483	-0.1617350335	0.272634604	-1.138239e-01	-0.835108290
## 33	0.217306172	-0.0439648850	0.164437059	5.995777e-01	-0.172226860
## 34	-0.323671997	0.2252237480	-0.010197115	1.356822e-01	0.161596758
## 35	-0.550374528	-0.1273137140	-0.301850872	3.854564e-02	-0.026508282
## 36	-0.071402285	-0.1872839130	-0.044437703	-5.066451e-02	0.094935766
## 37	0.267516136	0.0870098765	0.247390971	-5.113006e-02	-0.081672808
## 38	-0.020552602	0.4944672970	0.027117389	-1.594938e-01	-0.204189537
## 39	-0.047962420	0.4761034490	0.088756753	-1.134804e-01	-0.129583056
## 40	-0.119950090	-0.3967708655	-0.126808490	-5.300830e-03	0.342939846
## 41	-0.575318980	-0.0964583960	-0.459391442	-1.572699e-01	0.198740345
## 42	-0.011459458	-0.4068369175	-0.373063427	-1.669395e-01	-0.053978007
## 43	-0.256560540	-0.0703322740	-0.304555154	8.211647e-02	0.470494864
## 44	-0.189687135	0.2862336015	0.069517095	6.260389e-01	0.254843307
## 45	0.076401750	0.4078743890	0.183199680	6.569896e-01	-0.340991134
## 46	-0.100672899	0.1684029875	-0.212884804	-1.518979e-02	-0.420183471
## 47	0.033747443	-0.1608569640	0.265240395	2.513612e-01	-0.509137122
## 48	-0.002752992	0.1881688890	0.050539378	2.408630e-01	-0.219616588
## 49	-1.281775735	0.1664764120	0.038242174	3.593330e-01	0.401472222
## 50	-0.368818960	-0.1079644475	0.068474161	-1.061494e-01	-0.149231149
## 51	-0.426831450	-0.0949316665	-0.164061989	-1.421688e-01	-0.045561048

## 52	-1.221159370	0.2934467830	0.127487191	8.387732e-01	0.519030299
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## 54	0.336482200	-0.2141867840	-0.060799890	-2.181061e-01	-0.132839466
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## 56	-0.192405324	-0.1768813735	-0.260222395	-5.565505e-02	0.035824917
## 57	-0.095185854	-0.0276082625	0.167171355	5.445756e-01	0.342153678
## 58	-0.161036004	0.2637005505	0.070929885	1.898106e-01	-0.287179533
## 59	-0.407724647	0.0974919530	-0.082963475	-2.306407e-02	0.134657374
## 60	0.000000000	0.3327612775	0.079055709	2.679985e-01	-0.498287285
## 61	-0.080403108	0.0499829800	-0.016456007	4.661059e-02	-0.019302883
## 62	1.381813062	0.0261329020	0.737937982	-1.410492e-01	-0.375186470
## 63	0.687572531	0.3082267715	0.411885212	-9.242500e-02	-0.188495165
## 64	-0.512569282	-0.3022039415	0.067212569	3.855248e-01	0.636071202
## 65	-0.414455402	-0.1041570217	0.052504503	8.252864e-02	0.177263519
## 66	0.604124307	-0.1146888258	0.340694016	-4.316326e-01	-0.491734996
## 67	0.155318132	-0.1510244825	-0.035301950	3.455657e-01	0.497343235
## 68	-0.492858740	-0.8141640602	0.206791796	2.369427e-01	0.826599774
## 69	0.130002818	0.0825116920	-0.265691482	-2.873335e-03	-0.205180093
## 70	0.793377415	0.2620247897	0.068747016	-1.477204e-01	-0.101045028
## 71	0.375757327	0.2996599927	0.689848990	1.556013e-01	0.266279431
## 72	0.857542956	0.3431461485	0.178651965	-7.730750e-02	-0.135381705
## 73	-0.212848501	-0.1000935413	-0.285862150	-1.367349e-01	0.317574935
## 74	-0.322190667	0.3817370320	0.343849901	4.269635e-02	-0.166417674
## 75	-0.233208641	0.1115156115	-0.189709910	-1.067378e-01	0.059150495
## 76	0.020437846	-0.1990827700	0.264857242	-1.339794e-01	-0.186096463
## 77	0.113124550	0.1698652695	0.658925594	4.295646e-01	0.101421873
## 78	0.018696428	-0.1908557460	0.080584800	-1.623474e-01	0.092461306
## 79	0.332766359	-0.0162697035	-0.070173260	-7.440593e-02	-0.075963967
## 80	-0.698571523	-0.1248316850	0.035029839	-1.206720e-01	0.343558578
## 81	-0.171867330	-0.6478991085	-1.200366467	5.313968e-01	0.566000770
## 82	-0.580233266	-0.6697965275	-0.343946127	2.250721e-01	-0.090281928
## 83	-0.217937659	-0.0883629435	-0.075484201	2.473302e-01	0.151856807

## 84	-0.176662121	0.1135713008	0.824343283	2.869009e-01	0.310791389
## 85	-0.554312001	0.3813488362	-0.273919491	-1.305605e-01	0.101444393
## 86	-0.169874765	-0.1215911455	0.106540949	5.895272e-01	0.203561565
## 87	0.643968123	-0.3263441898	-0.144997181	-1.362684e-01	-0.040531445
## 88	-0.009474015	0.0592424440	0.017464129	-2.044023e-01	-0.009277012
## 89	0.215106579	-0.0266703430	-0.129078855	-1.032137e-01	-0.089789273
## 90	0.569292092	0.0325974913	0.168902724	-6.278854e-03	-0.049123898
## 91	-0.151867287	-0.0727151475	-0.320665912	-1.062624e-01	-0.065207277
## 92	-0.180522439	0.1761475755	-0.160529015	-1.689127e-02	0.303662167
## 93	-0.118128549	-0.0014188135	-0.039456895	1.732619e-01	0.286706202
## 94	-0.519890479	-0.1274683092	1.795668100	7.556274e-01	1.349486247
## 95	0.273962213	0.3570004985	-0.139134827	3.175846e-02	0.129276718
## 96	0.093384611	0.1569469740	-0.101691959	-2.683763e-01	-0.178471528
## 97	0.882608154	0.1164068728	-0.563988890	1.107339e-01	0.406719252
## 98	0.975044408	0.1170747495	0.374871589	-2.539675e-01	-0.350106520
## 99	0.201712174	-0.5503787050	0.297442566	-2.850160e-01	-0.200182912
## 100	0.479694287	-0.0425869240	-0.077850110	-3.112870e-01	-0.257365316
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## 104	-0.389728717	0.1414394640	-0.258084596	1.603081e-01	0.419639808
## 105	0.056058370	0.1571349285	0.334923348	-7.361664e-02	-0.004493584
## 106	0.156043849	0.2143416838	0.277091390	7.557180e-02	-0.038490182
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## 152	0.615955257	0.0039305585	-0.051537545	1.433544e-01	-0.028035577
## 153	0.796879891	0.1314386390	-0.318011301	1.950621e-02	0.066748902
## 154	-0.466038691	-0.1475254933	-0.059376614	4.679194e-02	0.224217017
## 155	0.274768861	0.1707404378	0.184543406	7.942004e-02	-0.122248184
## 156	-0.433130937	0.0585917315	0.027468702	2.701943e-01	-0.019868900
##	pp_Src	pp_Src.pY416	pp_Src.pY527	pp_Syk	pp_TAZ
## 1	0.189605754	0.457513991	0.526353830	-0.308786817	0.0060723185
## 2	-0.072627443	0.106521460	0.693547898	-0.151781456	-0.0487640330
## 3	0.707021371	0.128196993	-0.457486226	-0.410492460	-0.0553432950
## 4	-0.385280306	-0.277376720	-0.120921126	-0.474652775	-0.1108681308
## 5	0.136017138	0.080657646	0.633551017	-0.214652529	0.2132603025
## 6	-0.557020929	-0.249414891	-0.401705591	1.945283805	-0.1325950975
## 7	0.069651213	0.074560084	0.449034795	-0.174339560	0.3289456730
## 8	0.355592589	0.045590572	0.487798461	1.309883965	-0.0592524485
## 9	0.270833465	-0.151864831	-0.358810537	-0.211818046	0.6944602665
## 10	-0.063906363	-0.293912485	-0.538278861	0.142302582	0.1905095107
## 11	-0.153985479	0.060269258	-0.534530220	0.231122998	-0.1293337020
## 12	0.360042358	0.312387028	0.368483326	1.432303333	-0.1439625690
## 13	0.201484534	-0.192330679	0.008038521	0.170695822	0.0829969615
## 14	0.094562038	0.079643873	0.471194222	-0.626921632	0.1233287815
## 15	-0.269279935	-0.481806740	-0.519226065	-0.285289699	0.0041723225
## 16	-0.027667680	-0.204146503	-0.137220342	0.342916431	-0.1462175605
## 17	-0.011079511	-0.311506620	-0.025116820	-0.658210165	-0.0228000540
## 18	0.647901114	-0.900738870	0.264356170	0.250469555	-0.0610258730
## 19	-0.169055933	0.034949121	0.177341186	0.170824777	-0.1180867410
## 20	0.199754554	-0.160224755	0.084898127	0.515920132	-0.1322169385
## 21	0.102899646	-0.033127481	0.127221327	0.058175615	0.0995854980
## 22	0.800372059	-0.029977867	-0.488114406	0.591072239	0.6018393680

## 23	0.237973484	0.109722430	-0.191511855	1.076504445	-0.1847451065
## 24	0.784081491	-0.098325696	0.072313558	0.305010575	0.1470854060
## 25	-0.253533049	0.123818568	0.341088848	0.565837596	-0.1898135080
## 26	0.296888176	-0.300730769	-0.010966177	-0.487823451	-0.2334926185
## 27	-0.593204710	-0.059708725	-0.139383088	-0.075849263	0.1094999105
## 28	0.097884517	-0.211318949	-0.835246713	0.954920870	-0.1659921415
## 29	0.097720729	0.180795776	0.633626703	-0.480350955	0.4865572665
## 30	0.027486760	-0.161275702	0.243578434	-0.567958189	0.3543414080
## 31	0.463380541	-0.220589409	0.863991967	-1.222574482	0.5800685765
## 32	0.111982759	-0.939781975	0.368764967	0.217846408	-0.1395491725
## 33	0.090118506	-0.548304713	1.162221189	-0.197229496	0.3387236870
## 34	-0.020632706	-0.157571990	0.302479591	0.313505315	0.2756800450
## 35	0.330552067	0.277614144	0.438529316	0.648425559	0.0453034220
## 36	0.146779353	0.680596665	0.251832114	1.495975398	0.0900429780
## 37	-0.223215672	-0.537659312	-1.064267718	0.595868388	-0.0316745915
## 38	-0.109880591	-0.257753769	-0.530437216	0.142457058	0.0966740150
## 39	-0.095284835	-0.153926336	-0.493004100	0.066335363	0.0614822120
## 40	-0.154342023	0.295601874	-0.096636318	1.389454002	0.1094271795
## 41	-0.105103560	-0.202093716	-0.042917865	1.307200096	0.0560492120
## 42	-0.121735892	0.077342540	0.323884759	0.993336347	-0.0529642845
## 43	-0.006269202	-0.121709937	0.104263681	0.638000335	0.0700842620
## 44	0.152026920	-0.120629792	0.583044856	-0.140638408	0.5953172455
## 45	0.326337714	-1.693432396	1.073857441	-0.896085644	0.6095115760
## 46	-0.404186706	0.158058861	-0.370572472	0.631868795	0.1764039945
## 47	0.243269196	-0.966181697	0.888777477	-0.021118304	0.2273396570
## 48	0.416426660	-0.335834708	0.163900646	-0.306494757	0.2499868710
## 49	0.021167310	0.239677374	0.049381849	-1.007157121	0.6078083280
## 50	0.029672833	-0.094066630	-0.138600498	-0.330027093	-0.1251407045
## 51	0.314192964	-0.214188429	-0.342561023	-0.672111343	0.1548184925
## 52	0.433907278	0.341540123	0.748807536	-2.094202871	0.3840048110
## 53	0.193827418	0.031806708	0.229449469	0.473870307	-0.2136717580
## 54	0.282466771	-0.052245982	-0.590555710	0.275158837	-0.3453269130

## 55	0.108100509	-1.129759914	0.340447473	0.002665701	-0.0298193650
## 56	0.100212263	-0.003349875	0.145926757	0.810491538	0.0164358735
## 57	0.023280647	0.217772215	0.641293228	-0.606665937	0.5655757855
## 58	0.118463572	-0.551025688	0.470167863	0.274670735	0.4144838675
## 59	0.251040129	-0.341212438	0.181879852	0.739563259	0.1789842700
## 60	0.711249494	-0.633663896	-0.512435752	-0.105393391	0.4054237745
## 61	-0.352441874	-0.458389290	0.521233888	0.368686435	0.0012605765
## 62	-0.622631501	-0.195553221	-0.039374165	0.255901585	-0.1231656925
## 63	-0.488272037	-0.190871207	-0.820283013	0.266580078	-0.3040207150
## 64	-0.613459115	0.285647102	-0.178226195	-0.602730350	0.5112032750
## 65	0.010181078	0.874145470	0.711627689	0.203593331	0.3198536558
## 66	-0.684682198	-0.045840010	-0.351940930	1.224049994	-0.1026859152
## 67	0.270284172	0.600310850	0.630964083	1.400138504	1.0541935030
## 68	0.387487246	0.096569717	1.076391313	0.005457202	0.5610306622
## 69	-0.034651815	-0.190058641	0.460424220	-0.731985218	-0.0416596985
## 70	0.535051064	0.061375166	-0.039250677	0.382765790	-0.0852124977
## 71	0.108945208	-0.266859739	0.475647869	0.098791442	0.0161151783
## 72	0.071037142	-0.319406544	-0.406776067	0.006056028	0.0611071210
## 73	0.200389072	1.337341192	0.540841815	0.608684863	-0.0343154367
## 74	-0.336870304	-0.219176464	-0.022327113	-0.062767047	0.0338499470
## 75	-0.740855591	0.335243030	1.244984940	0.347704244	0.1733278875
## 76	-0.035964289	0.036728130	0.030502234	0.351618671	-0.2206880890
## 77	0.480663583	-0.654265739	0.924835688	-0.645131403	0.4466230435
## 78	0.122261071	0.174209675	1.015608129	0.201184341	0.1379598890
## 79	-0.270107409	-0.095206263	0.104944536	-0.389192906	-0.1552054775
## 80	0.542109981	0.146855048	0.482421227	-0.835696020	0.0515172285
## 81	-0.621488876	1.434136443	0.076611340	-0.247112726	-0.4354997230
## 82	-0.071712111	0.777853745	0.712708666	-0.668225906	0.0379517180
## 83	-0.076393773	0.000329875	0.227892714	-0.720661582	0.1724872150
## 84	-0.047935534	-0.123961835	0.050070322	-0.142315522	0.2379471053
## 85	-0.135635222	-0.166735798	0.007214022	2.074115742	-0.2289450602
## 86	0.020337668	0.005814175	0.424439521	-0.523860813	0.4728781615

## 87	-0.107006193	0.565275222	1.014095676	-0.398819327	0.0811526347
## 88	-0.099318996	0.059162177	0.053230084	0.532051777	-0.4143985530
## 89	-0.213623183	-0.013255933	-0.258977073	-0.556841821	0.0630222740
## 90	-0.281103249	-0.312224537	-0.108178644	-0.574233873	-0.3655176453
## 91	-0.203357924	0.069604958	0.353160566	0.972435324	0.0086330265
## 92	0.065986381	0.269774073	0.710138299	0.609628780	0.2260368445
## 93	0.334793670	0.610261267	0.852540213	0.543913825	0.1668381015
## 94	-0.237926523	-0.059800021	0.839660056	-1.386478780	0.1500392162
## 95	-0.213738296	-0.035643148	0.703587546	0.453002905	-0.0884972760
## 96	-0.543646582	0.640996673	0.343961672	0.891268671	-0.0761563470
## 97	0.187672522	1.561261717	1.006147845	0.560342640	0.4190726663
## 98	0.325990517	-0.054560106	0.833211559	-0.584322700	0.0216094515
## 99	0.439579845	0.085354053	0.617925111	0.192741656	-0.2821514930
## 100	-0.015324278	-0.208348062	0.185185146	0.494671490	-0.5178658490
## 101	0.620815952	-0.062457980	0.035561510	-0.114434324	-0.3746088337
## 102	0.381245632	-0.140585778	0.255730142	0.568498839	-0.4126525007
## 103	0.146894262	0.546305583	0.116674780	-0.177116531	-0.3071079465
## 104	-0.258976149	0.221515154	0.522648120	-0.324779225	0.0699926150
## 105	0.000000000	-0.060294350	0.375986634	0.258824213	-0.1716184385
## 106	0.409203313	-0.042611817	0.660840802	-0.139552079	-0.0858177577
## 107	-0.242085093	0.027725933	0.360820831	0.337203235	-0.2253938470
## 108	0.135235747	-0.202729372	0.419431855	0.199981998	-0.0543171615
## 109	0.126812402	-0.167788671	0.667187806	0.569601055	0.1374566370
## 110	-0.165879510	0.548343725	0.804866504	0.067717086	-0.3579729680
## 111	0.162322050	0.094078034	0.617913965	0.827872660	-0.0525930375
## 112	-0.058434783	0.142955678	0.727871942	-0.383582333	-0.2138747045
## 113	0.003683369	0.268192769	0.620880414	1.011906254	0.0554757945
## 114	-0.203333891	-0.240152434	0.243512292	0.772619462	0.0039797255
## 115	0.047015789	0.866138954	0.628250617	0.953067512	0.0365531980
## 116	-0.447703794	0.308114774	0.829130352	0.310269372	0.1096954818
## 117	-0.413010271	0.013774224	0.133725786	-0.291664964	-0.2328069258
## 118	-0.516827227	0.265866283	0.170280172	1.031421638	-0.3614545980

## 119	0.034673928	0.376881357	0.493657530	-0.767042727	0.7875496070
## 120	-0.410745264	-0.185979507	-0.490751426	-0.302854495	-0.2406413870
## 121	0.441781715	0.214858109	0.693513033	-0.453968447	-0.1856341498
## 122	-0.476999224	-0.591802648	0.704932756	-0.224371798	-0.8556995885
## 123	-0.703626143	-0.067634046	0.139532604	-0.427493179	-0.3140575135
## 124	-0.066356638	0.396275706	0.707426504	0.238738690	-0.1873651970
## 125	0.231519554	0.000000000	0.179932062	0.678209582	-0.1572068980
## 126	0.185980261	0.267011371	0.653957180	-0.590868484	-0.1239776115
## 127	0.121918771	0.041770476	0.073825929	1.092835715	-0.3161248730
## 128	-0.123597078	0.202322762	0.448427539	0.833345500	-0.3333678785
## 129	-0.446425637	0.238404940	0.688890503	0.729314901	0.0047362725
## 130	-0.527286266	0.183516712	0.281829141	0.471664129	0.0248210995
## 131	-0.119773118	0.097551329	0.031944292	0.397337154	-0.2626620975
## 132	-0.405773889	0.327108415	0.434395790	0.007366590	0.0218860770
## 133	-0.052244315	0.388531138	0.426327706	0.970009032	-0.0942032005
## 134	-0.208319415	-0.141228535	0.257197169	0.634909748	-0.0830961163
## 135	-0.084061040	0.056913725	0.211257713	-0.768448935	0.1007211263
## 136	0.092805096	-0.050458328	0.443305464	0.628237942	0.0135161292
## 137	0.332436116	-0.372125431	-0.585965996	-0.787674549	-0.0962715912
## 138	0.419114567	-0.233459431	-0.189573556	0.919410525	-0.1686778260
## 139	0.599600851	-0.339065387	-1.082533114	0.367322635	-0.0956613100
## 140	0.186295859	-0.306576903	-1.091117401	0.739145956	-0.2074999922
## 141	0.798693692	0.281372254	-0.927038662	-0.285031679	0.0652869885
## 142	0.494347043	-0.014248704	0.648357151	0.372199379	-0.0889815402
## 143	-0.191523090	-0.201945814	0.453501368	0.767958813	0.0326473593
## 144	-0.186963602	0.151847654	0.308115424	0.595590342	-0.0002156725
## 145	0.569539207	0.260108619	1.163890492	0.994801425	-0.0103705150
## 146	-0.130391276	-0.376615334	-1.073427848	1.301480987	-0.0289513990
## 147	-0.285689752	-0.487289878	-1.025457716	0.303389272	-0.1592062655
## 148	0.204702220	-0.250056834	-0.723773509	-0.279161617	0.1835533595
## 149	-0.013515040	-0.037862860	-0.718027931	-0.114814939	0.0055724430
## 150	0.367303773	0.229133745	-0.202762216	-0.325197194	-0.1477615328

## 151	0.148131297	-0.270484652	0.570105350	-0.445553192	0.0312024060
## 152	-0.040948985	-0.031842054	-0.466748683	-0.349753989	-0.0721587370
## 153	-0.105561029	0.564615849	0.505911776	-1.088581336	-0.2239871435
## 154	-0.144062465	-0.021482720	0.404906527	-0.236488672	0.6642558832
## 155	-0.032971134	-0.220436379	0.173546718	-0.934857012	0.0163553713
## 156	0.483235298	-0.689980417	0.324617841	-0.104117310	0.3825860335
##	pp_TFRC	pp_TIGAR	pp_TSC1	pp_Transglutaminase	pp_Tuberin
## 1	-0.4307426175	0.309510447	0.131346041	-0.168065952	0.1006900705
## 2	0.0448824475	-0.053722030	0.117277324	-0.232627840	0.0049787340
## 3	-0.7218984620	-0.208661455	0.178693930	0.317788688	-0.3978098930
## 4	-0.6234892507	0.016195968	0.235663221	-0.300143070	0.3897562582
## 5	-0.2693176685	0.106097005	0.166391774	-0.058436425	-0.3745036695
## 6	0.0369483990	-0.170343782	0.554249448	0.624692077	0.1752520215
## 7	-1.1412791060	0.094038314	-0.000828026	-0.175905337	-0.5498000890
## 8	2.4453056585	0.115061556	-0.002789937	0.124145758	-0.0559556595
## 9	-0.1770104635	-0.101357034	0.224979134	-0.043576188	0.0070991355
## 10	-0.7577586122	0.028343188	0.322128073	-0.147574586	0.1991662938
## 11	-0.0970973740	-0.066710635	0.151019871	-0.106401582	0.1635060500
## 12	0.0495824505	0.084940812	-0.269953537	-0.086342059	-0.0979314580
## 13	0.1279811270	0.043323604	0.047073162	0.346370085	0.2348494545
## 14	0.1542551920	-0.022931110	0.480224404	-0.243918865	-0.4437866975
## 15	0.6253733780	0.038419843	-0.936245187	0.263910655	0.1144388055
## 16	0.3759320910	0.010097461	0.213129345	-0.211913964	0.0786097785
## 17	0.1956458815	-0.113635070	-0.299026574	0.013611508	0.2334691780
## 18	0.1599116615	-0.264105820	-0.463423185	-0.260095609	0.1319935680
## 19	0.0683366115	-0.172694920	-0.757716760	0.351921553	0.2338337960
## 20	0.2267992620	-0.143007260	-0.233853458	-0.012801297	0.4621023805
## 21	0.1493120055	0.032384280	0.887589580	0.285163394	0.0725725740
## 22	-0.3809274355	0.241311546	2.512826852	0.715062967	-1.0417983940
## 23	-0.8804368460	-0.199029963	-0.462939810	-0.087102688	-0.1576386745
## 24	0.4533785990	0.176157884	0.027179976	0.115444508	-0.5625766850
## 25	0.2270587595	-0.164663132	-0.517283485	0.477055585	0.5093881760

## 26	0.5568721260	-0.415548249	0.358229291	-0.337282317	0.6975813465
## 27	0.3395390660	0.017881825	0.158708645	0.175113315	-0.0000730355
## 28	0.2333019070	0.029228648	0.305314282	-0.136049828	0.1218291415
## 29	-0.0869736400	0.297151612	-1.050750529	-0.033789820	-0.7923765255
## 30	0.0600238615	0.251418975	0.072571759	0.059922683	-0.1998426930
## 31	-0.3025305860	0.328187181	-0.346085470	-0.404890890	-0.8116115415
## 32	0.2148559470	-0.123753893	0.672399812	-0.247209839	0.3647353655
## 33	-0.2696131175	-0.243173444	-1.662242256	-0.367269176	-0.0526716250
## 34	0.1011478325	0.049800640	0.514073760	0.143741247	-0.2135634190
## 35	-0.0263022805	-0.049411216	0.538162213	0.114349801	0.2210165500
## 36	-0.2948780185	0.281895579	0.096661356	-0.211468142	-1.0538087840
## 37	0.0099956370	-0.207762615	-1.050391213	0.144604622	0.6470240365
## 38	-0.0989335945	0.033364779	1.236735616	-0.102222429	0.0866571930
## 39	0.2088758105	-0.058993016	1.440505956	-0.008356363	0.1292858420
## 40	-0.1073969190	-0.111728332	-0.475810155	-0.034077545	-0.0986583825
## 41	0.3504950985	0.162560946	0.692775966	0.467160403	0.1091568390
## 42	-0.0169157130	0.269274570	0.499912776	0.202845161	0.5098369375
## 43	0.2204768905	-0.009198973	-0.236918177	0.113529065	0.0814467110
## 44	-0.0665084680	0.345957896	-0.799360459	-0.169968097	-0.5054610985
## 45	-0.0377930905	0.786046991	-0.732900139	-0.238416869	-0.2703293050
## 46	0.4721752300	-0.007820892	-0.025240420	-0.001651138	0.6193622485
## 47	-0.1920461345	-0.069917902	-0.014866597	-0.200281307	0.2297794740
## 48	0.2954156605	-0.271978016	-0.555938078	-0.463423519	0.4478870050
## 49	-0.5002462525	0.346160419	-1.377205352	0.397408551	-0.6665263220
## 50	0.2698409250	-0.097831141	-0.860462510	-0.112446688	0.4671980735
## 51	-0.0304938380	0.183432093	1.771464150	0.013543989	0.3081961855
## 52	-0.4753836765	0.617232890	-1.552616501	0.000270969	-0.6214791800
## 53	-0.0891634295	0.071400392	0.009215652	-0.080458762	0.2959031480
## 54	-0.0991180305	-0.035679212	0.882888282	-0.034575610	0.5500499550
## 55	0.1278660675	-0.051386804	-1.318500272	-0.222850584	0.7383984900
## 56	0.1180506130	0.156270381	0.287642905	0.200644619	0.0972561795
## 57	-0.3244002750	0.385389145	-0.930567023	-0.363774871	-0.3455945435

## 58	-0.1307426970	-0.073396347	-0.387475717	-0.064882673	0.3896698385
## 59	0.1963721085	0.041191058	1.147792643	-0.218647005	-0.0331075950
## 60	0.0201409820	-0.128958359	0.652274576	-0.561948587	0.2414144805
## 61	-0.6514790665	-0.225387738	-0.052522421	-0.147116848	0.1072724765
## 62	0.9671708295	0.079532195	-0.229223229	0.073819752	0.1297784815
## 63	1.3388071930	-0.080240188	-0.532660159	0.599455898	0.2833965460
## 64	-0.3407591090	0.324598022	-0.606011000	0.191800024	-0.7351677470
## 65	-0.3594012022	0.260309472	0.050793094	0.215432560	-0.9238428042
## 66	1.1848340598	-0.054497726	-0.135137658	-0.239204027	0.3628550087
## 67	1.2912056620	0.330427305	0.226800917	0.223776524	0.0577809170
## 68	0.5167659962	0.811186001	-0.189351068	0.025041920	-1.6340595788
## 69	0.3978829205	0.212331155	0.007950716	-0.109216934	-0.7576825375
## 70	0.6305396103	-0.107301210	0.069951930	0.254209809	0.6352601233
## 71	1.4495609792	0.303191927	-0.304702074	0.366245154	-0.6138308228
## 72	1.0907614710	0.002330588	-0.562644370	0.101498845	-0.6183030250
## 73	0.1665724503	0.084878469	0.329448237	0.164385112	0.5502781182
## 74	0.2029894215	-0.093789554	-1.603330826	-0.221655148	0.3683700050
## 75	0.1797797610	0.000936715	1.390900822	0.152110501	-0.2384992915
## 76	0.0001316065	-0.378824428	1.545513528	0.175986551	0.2765214380
## 77	-0.3703366510	0.115234967	-1.073148527	-0.273512900	0.1269579965
## 78	-0.3492507695	-0.009070382	-0.067950146	-0.021162640	0.1962070900
## 79	0.0737486100	-0.097691895	0.440505466	0.061055244	0.1729337055
## 80	1.3884227935	0.132947867	-0.281608859	-0.071103872	-0.5443044135
## 81	1.5196588415	-0.707568912	-1.087271288	0.397375263	-0.3535597305
## 82	0.8633761435	-0.372415255	-0.286316617	-0.134702143	-0.4732425055
## 83	-0.6031210510	0.211390082	-0.072854891	-0.048860268	-0.3644891290
## 84	1.2221455832	0.201536919	-0.011648007	0.400038682	0.6284352802
## 85	-0.2557314582	0.090872600	0.365160690	0.237092413	0.1740858888
## 86	-0.3058882080	0.033302747	-0.961494645	-0.011995070	-0.5786785735
## 87	-0.4011790043	-0.103724226	-0.165993269	-0.173396515	-0.7685878953
## 88	-0.2343337975	-0.156675659	-0.370502394	-0.119754376	0.1401789520
## 89	0.7479048455	-0.142070602	-0.528290542	-0.095994190	0.6461807010

## 90	-0.2308631942	-0.197796793	-0.266067714	-0.237646803	0.3110599688
## 91	0.1288222990	0.072507918	1.612727785	0.174888522	0.4038004535
## 92	0.1369781890	0.136003470	-0.243456014	0.227616178	-0.0585685355
## 93	-0.5232377080	-0.034347196	0.759766353	-0.374232891	-0.3724586595
## 94	-1.1275357768	0.017098667	-0.759109687	0.172352975	-1.5529676357
## 95	-0.1618829960	0.034163412	0.253858802	0.002469702	-0.2702255100
## 96	0.4974626495	0.034424158	-0.042131869	0.182710607	0.1643570190
## 97	1.9733721862	-0.300981413	-0.524314641	-0.147256106	-0.6948747248
## 98	0.0104898560	0.021940894	-0.316222962	-0.345104845	-0.3242111905
## 99	0.1918965655	-0.139917505	-0.001671570	0.562760247	0.6041502870
## 100	0.4941112405	-0.251105264	-0.957166458	0.265683234	0.3712251940
## 101	0.8348450032	-0.092376806	0.187554749	-0.211872202	0.2382488963
## 102	-0.9434357518	0.044064597	0.098290848	-0.242342512	0.3010708953
## 103	0.5718734080	-0.232763795	-1.039472391	-0.184241823	0.4238961775
## 104	-0.0958829535	0.024664384	-0.527284067	-0.140910508	0.0585030030
## 105	0.3305755450	-0.301262159	-0.067013003	-0.401677244	0.4919733635
## 106	-0.9139298568	-0.119042531	0.186884453	0.224509970	0.2132765032
## 107	0.3155749985	-0.201736323	0.159837795	-0.235442450	0.4550574790
## 108	0.0286603470	-0.099070121	-0.621626088	-0.369300118	0.1064187835
## 109	-0.3930421095	-0.026149958	-0.559909791	-0.039706626	-0.1983145850
## 110	-0.1281170355	-0.227870101	0.258921200	0.091234928	0.6633299550
## 111	-0.1710377100	-0.236458666	0.378712936	-0.008068048	0.5238756935
## 112	0.0814692970	-0.064705998	-0.744900184	-0.096779186	-0.4256103755
## 113	0.0000000000	0.094441688	0.902866382	0.148310852	-0.7263202735
## 114	0.3503834760	0.057570750	-0.015508766	-0.052438756	0.2570409055
## 115	-0.3306178230	-0.020676783	-0.167083390	-0.106013167	0.0624500620
## 116	-0.6279271033	-0.202114343	-0.001045280	-0.189195148	0.0714719288
## 117	-1.1775552827	-0.177776437	-0.075852556	-0.326377916	0.1053880763
## 118	0.0191862765	-0.025611192	0.426176072	0.626937690	0.1619083930
## 119	-0.4490597705	0.767847467	-0.988139099	0.417218875	-1.2610849860
## 120	-0.7865359700	-0.117272900	-0.016971620	-0.036306873	0.6926574160
## 121	0.4001834033	-0.104781313	0.306454641	0.450901372	0.3737922973

## 122	0.1625109230	0.096012830	-0.579446292	-0.205244126	-0.2128056205
## 123	-0.3722961150	-0.175777969	0.463259822	-0.270221037	0.1146366705
## 124	-0.3791800605	-0.088211354	-0.801697673	-0.495398225	0.1884466220
## 125	-0.0499569905	0.144997168	0.709164569	0.581312481	0.6057883670
## 126	-0.3881213170	0.035644381	-1.338168811	-0.250058768	-0.1589718605
## 127	0.3308925845	-0.052317629	0.533146741	0.298759342	0.5912187960
## 128	0.6462750730	0.060379518	0.821752821	0.011286433	0.8441823675
## 129	0.5507295850	-0.112086097	0.558828167	-0.016614572	0.4895679765
## 130	-0.0508077200	0.087507238	1.347692776	0.073349033	0.0016305065
## 131	0.3222466030	-0.016014574	-0.559933836	0.700708511	0.2777914255
## 132	-0.5645116695	-0.205186246	-0.677672891	0.103398880	-0.1080536250
## 133	0.2074387400	0.122872032	-0.055160778	0.051408810	0.1820392025
## 134	0.1368334567	0.273596863	0.062291712	-0.475287483	-0.0301779793
## 135	0.0650173853	-0.023076051	0.027252384	-0.015168163	-0.2457593848
## 136	-0.2374147048	0.025645540	0.352367778	0.033071787	0.0088040982
## 137	-0.3536576793	0.051100070	0.349733610	0.166492041	0.2490524447
## 138	-0.2825164740	-0.108410787	0.166964270	0.071577445	-0.0748904910
## 139	0.8841711430	-0.196719245	0.197588774	-0.036081616	0.4409929510
## 140	0.1074985337	0.162246874	0.262390412	0.336419626	0.1247573648
## 141	0.8703568255	0.747603406	0.161444920	0.183594676	-0.8576702085
## 142	-0.0725001822	0.070210697	0.067417615	0.317441680	0.1478682357
## 143	-0.5386474918	0.255350977	0.037452448	-0.097283783	-0.1014592177
## 144	2.2869242225	-0.023062999	-0.210036472	0.361980976	0.0963241215
## 145	0.3999329690	0.013237311	0.145529607	0.262175757	-0.5386186120
## 146	0.3350532715	0.064681104	-0.480969301	-0.118176506	0.5548605970
## 147	0.2174184530	0.250990326	-0.068667956	-0.085463164	0.4755010375
## 148	0.2865350485	-0.031225335	0.528697410	0.018663148	-0.6447051395
## 149	-0.1960526590	0.075789398	0.059389854	-0.101886285	-0.0578108960
## 150	1.0463868362	-0.112038814	-0.199589566	-0.046436181	-0.4587572078
## 151	-1.2863375790	-0.071444371	0.058728247	-0.114373450	-0.4485368440
## 152	0.0569091220	-0.102992491	0.423309389	0.128422021	0.4626324460
## 153	-0.1763901575	-0.188390522	-0.243995818	-0.044810455	0.3082805205

## 154	-0.4717623018	0.056667168	-0.014937191	-0.078390629	-0.3077259988
## 155	-0.9348269327	-0.353224085	0.199183126	-0.008277653	0.0105645603
## 156	-0.1543095070	-0.076438421	0.797395346	0.207502141	-0.5480384945
##	pp_Tuberin.pT1462	pp_VEGFR2	pp_XRCC1	pp_YAP	pp_YAP.pS127
## 1	0.304857188	-0.1165835560	0.1861941685	0.034034085	0.429606757
## 2	0.212137338	-0.6993725420	-0.0038012210	0.028424271	0.699927648
## 3	0.275979249	0.8656579605	-0.3040952570	0.371283757	1.255105834
## 4	0.158413221	0.4869089827	0.6333223452	-0.247045445	-0.346866892
## 5	0.086854521	0.5689174400	-0.2220831545	0.312480525	0.778481107
## 6	0.093756664	-0.7495680935	-0.1382367915	-0.31888424	0.461961970
## 7	0.161929601	-0.8709355525	-0.1730298920	0.274676048	0.105087684
## 8	0.194134816	-0.5567771360	-0.2198836505	-0.011968769	-0.301077677
## 9	-0.104136946	0.0670485270	0.2478248525	0.146624571	0.001922457
## 10	-0.167744091	0.6355476832	0.1195805857	0.088415841	-0.025249284
## 11	0.814041230	0.2682369305	0.3496274270	0.012493092	0.028568544
## 12	0.065588135	-1.1645923630	-0.0707694010	0.006384109	-0.166025921
## 13	-0.130334232	0.8823544705	-0.1738749965	0.019582474	0.112876878
## 14	-0.205491249	0.8188401305	-0.0454206065	0.637810545	0.642825799
## 15	-0.187993338	0.2267894095	0.2911409155	0.134050664	0.058288855
## 16	0.433605996	0.2161672715	0.1273565375	0.292359579	0.528503271
## 17	0.051797865	-0.7676130160	0.3939315120	-0.070832360	-0.006799063
## 18	0.367742113	0.8134318550	0.1756043180	-0.228960194	-0.141928234
## 19	-0.433434985	0.6777113490	0.0926839650	0.249953844	0.067962710
## 20	0.602027303	-0.1887813955	-0.1074878395	0.038536290	0.332093470
## 21	0.012318193	-0.6723516180	-0.0435431250	-0.058813593	0.230441734
## 22	-0.135406501	-0.6312494870	0.2061281430	0.928110409	1.872101962
## 23	-0.031399979	-1.2667135385	-0.2365103815	-0.166756462	-0.569739060
## 24	-0.269848187	-0.0428949585	-0.0679934060	0.363124319	0.028545694
## 25	0.570067868	0.4548442120	0.0193648570	-0.385941690	0.229897506
## 26	1.377329836	0.2268530685	0.3566526695	-0.204987401	-0.096760488
## 27	0.188933919	0.3915402395	0.1123147085	0.038237356	1.063479659
## 28	0.373009890	-1.1483832605	0.0706986225	-0.204496922	-1.091270739

## 29	0.435888410	0.1148764125	-0.0389555335	0.389591457	0.427158807
## 30	0.285713028	0.4566999220	-0.2289519380	0.251028105	0.458355470
## 31	0.347070210	0.5789288315	-0.1531610615	0.341013411	0.617648813
## 32	0.231147765	0.3160572965	-0.0169666365	-0.303763666	0.099725011
## 33	0.298015385	-0.4225211340	-0.0215251980	0.126933835	0.242993376
## 34	0.000000000	-0.6380901050	-0.1076339740	0.357272890	0.511529941
## 35	0.362334936	-0.3685906560	-0.1270619100	0.035681902	0.276900280
## 36	-0.102600432	-0.9963199400	0.1917472750	-0.145786866	-0.410089188
## 37	-0.414178004	0.8778069985	0.1442809105	0.093136368	-0.406822282
## 38	0.045143228	-0.0008043800	0.1364111650	0.075099221	0.589957903
## 39	-0.051756796	0.5527964790	0.1866645840	0.072053826	0.777389086
## 40	-0.300397815	0.1198994445	0.5325284745	0.346274210	-0.873312262
## 41	0.242924406	0.8353018820	-0.1620338990	0.023409220	0.580266577
## 42	0.185114230	0.2995559955	-0.1024905015	-0.067561108	-0.222826590
## 43	0.445152726	-0.7030523050	0.2819203960	-0.169997917	0.018220758
## 44	0.032049424	-0.6543574805	0.1703652745	0.443285307	0.317246224
## 45	0.560000611	-0.2847626570	0.0346001140	0.340018851	1.003357084
## 46	0.455049771	0.0063979235	0.2183735605	-0.082352553	-0.147409063
## 47	0.236029411	-0.1115691550	0.1006242060	0.313190283	0.802314844
## 48	-0.030254397	-0.3900865130	0.1400637590	-0.015494575	-0.035797412
## 49	0.000000000	-0.4167970120	0.1395407830	0.549899003	-0.218247181
## 50	0.320098689	-0.4567179705	-0.0294946045	0.380853259	0.769063708
## 51	0.036166638	0.6083591035	-0.0354453385	0.204720008	0.859284916
## 52	0.087239224	-0.6588718540	0.1514228330	0.955148745	0.399040756
## 53	0.395608118	-0.5817980180	0.0504256020	-0.070936956	0.021155624
## 54	0.234442075	0.3644236460	0.0590717620	-0.172040355	-0.364547950
## 55	0.349720291	0.8203218140	0.1465695750	-0.287116127	0.007383673
## 56	0.064351186	0.3320732685	-0.3212708775	0.269510323	0.837454503
## 57	0.484332257	-0.6303734545	0.0001545225	0.366560023	-0.006286360
## 58	0.180658967	-0.7285554165	0.0167606185	-0.287323155	0.306395640
## 59	-0.315284829	-0.0671553310	0.2274797110	-0.039737508	-0.698706042
## 60	-0.335534530	-0.7433288725	0.1079807855	-0.157944793	-0.636788537

## 61	0.360500302	0.2806262550	-0.0142328195	-0.093684627	-0.281873506
## 62	0.108586471	-0.2197377260	-0.1246012755	-0.374363022	-0.501771037
## 63	-0.175273964	0.2301668445	-0.0336846820	-0.412680858	-1.045644209
## 64	0.451973437	-0.7386011405	-0.4473446300	0.568964129	0.598850046
## 65	-0.149419935	-0.4495056197	-0.1487908343	0.577074682	0.437702806
## 66	0.314315904	1.0161229243	-0.0992237372	0.015330287	0.603161155
## 67	0.398410997	-0.2498968705	-0.6614539240	0.588914191	0.272970677
## 68	0.697533717	-0.5837863933	-0.2678362117	1.071987243	0.338126077
## 69	-0.087976642	-0.2067947650	0.0674236995	0.236880531	0.410080933
## 70	-0.343608591	-0.1275110282	0.1392682533	-0.276036212	0.232945007
## 71	-0.481822268	-0.7661543503	0.1165367612	-0.103968550	-0.150839325
## 72	-0.449642627	0.7010712655	0.1307679970	-0.060314448	0.242831412
## 73	-0.605409451	0.4259891857	0.0504308282	-0.040394145	-0.043099281
## 74	0.615037945	1.4624720270	0.2303094550	0.154819900	0.100613269
## 75	0.472327428	0.5118959015	-0.1384857665	-0.214360982	0.011345526
## 76	0.702043630	1.9206811440	-0.0733350820	-0.534724818	-0.269045341
## 77	0.366106312	0.0435387755	0.1705812745	0.313740261	0.224597451
## 78	-0.003533214	-0.2702892040	0.1257380870	0.328603523	0.941060419
## 79	0.516876111	0.5950290415	-0.0014409005	0.298889003	0.687531025
## 80	0.201734269	0.4171607390	-0.0931250195	0.015894884	0.013922435
## 81	1.008974700	-1.1976091530	0.1638222500	-1.001382366	-0.964880526
## 82	0.352692002	-0.7844359130	0.2045620920	0.084841961	0.082125119
## 83	-0.000329875	-0.0717424825	-0.1111879570	0.328204351	-0.003502613
## 84	0.797609179	-0.2389974883	-0.1213736498	0.275535279	0.539690646
## 85	-0.152151281	0.0789175313	-0.1919463413	-0.098434335	0.964516520
## 86	0.466460184	0.6439649355	0.2035720325	0.146735651	-0.873161421
## 87	0.052598753	0.2649447752	-0.6405071452	0.501933465	0.816016839
## 88	0.157746148	0.4514229250	-0.0070232900	-0.453104622	-0.627588909
## 89	1.092714653	0.9691809980	0.0324542600	-0.065292933	0.516427951
## 90	0.748820893	1.0000210973	0.0607810528	-0.606326644	-1.034978588
## 91	0.704008853	0.5241272755	-0.0334527155	-0.015525342	0.614113379
## 92	0.154436141	0.4287297225	-0.0897937925	-0.133152331	0.341564226

## 93	0.236113617	0.3090092625	-0.1146376775	-0.042325299	-0.443582542
## 94	0.056854555	-1.0714424682	-0.3947274738	0.281859154	0.362408507
## 95	-0.003460347	0.0681280185	-0.0190347450	0.187404291	0.748064933
## 96	0.477701195	-0.4963419480	-0.3501968690	0.156267941	0.789971342
## 97	0.213550437	0.1818711658	-0.1741849767	0.387177638	0.418565599
## 98	0.562210579	2.0462367245	0.0610226585	-0.020095408	-0.447726012
## 99	0.762601756	0.3159269130	0.0675793750	-0.376165185	-0.041848613
## 100	0.448330494	0.7184986830	0.0026001520	-0.374503498	0.605079996
## 101	0.332096941	0.4649205718	0.5452624993	-0.233939579	-0.156229294
## 102	0.583850531	0.5007370267	0.3168003643	-0.304523354	-0.826573619
## 103	0.991872574	0.9056650505	-0.0542128055	-0.059470571	0.897203409
## 104	0.117675511	-0.0091775060	-0.2523601700	0.071978408	0.345268356
## 105	0.565939430	1.3467764795	0.0360711385	-0.224134073	-0.593005483
## 106	0.703643025	0.7555491347	0.0625118882	0.048328429	-0.002242576
## 107	0.653332841	0.1228860740	0.0923157180	-0.475013919	-0.001052436
## 108	0.284169269	-0.0843049865	0.0047872995	-0.330892362	-0.601040802
## 109	0.336650454	0.4304768130	0.1537985580	-0.349643094	-0.091567022
## 110	0.366337854	0.4290260040	0.1113207190	-0.430906352	-0.844531702
## 111	0.733877986	-0.0195447225	-0.0667343765	-0.486905825	-0.061220271
## 112	0.162894678	0.1072600245	0.0976995825	-0.137077823	0.172942605
## 113	0.188759250	-0.0068612115	0.1400640945	-0.018562824	0.048914325
## 114	0.315423838	1.1843335615	-0.0505959925	-0.080007474	0.187878803
## 115	0.351408870	-0.2247552435	-0.1078812140	0.069035998	-0.153445984
## 116	0.347886726	0.2289280613	-0.3019167963	0.055452985	0.068584792
## 117	0.571857577	0.5443625027	0.2103531262	-0.448573514	-1.049427852
## 118	0.557242784	-0.6689407440	-0.0947424610	-0.421178365	0.380711246
## 119	0.392795613	-1.1027997160	0.1271894940	0.675454183	0.219836187
## 120	0.559619975	0.5058507275	0.1033541290	0.043991958	0.196256581
## 121	0.283682073	-0.0447929042	0.1699797533	0.104341337	0.263493073
## 122	0.945974362	0.6670318655	-0.1109980615	0.681813055	0.327836919
## 123	0.534292477	1.0945885285	0.5749480055	-0.306531210	0.140463642
## 124	0.369832370	-0.4588447370	-0.1030821790	-0.350004392	-0.247900333

## 125	-0.184111268	-0.2101501610	0.0265033600	-0.612382858	-0.180246977
## 126	0.071286628	1.1011656605	0.0194902395	-0.255925629	-0.676943557
## 127	-0.068193143	0.2617971430	0.1438971190	-0.395114332	-0.979860694
## 128	0.732184535	0.1744508245	0.1403741335	-0.331538455	-0.517272765
## 129	1.071697257	-0.3114796645	0.2042584665	-0.495522369	-0.159596759
## 130	0.514333607	-0.1431270755	-0.0423404445	-0.339390853	0.000000000
## 131	0.138616663	0.6666576255	0.2403420625	0.055624143	0.307671598
## 132	0.416676418	-1.9203694210	0.3870713940	-0.211949624	-0.347133711
## 133	0.342649741	-0.6864917195	0.0391357685	-0.066849597	-0.364991937
## 134	1.137997263	-1.0913956168	-0.3280598982	0.112238513	0.261937893
## 135	0.027138616	0.4281303277	-0.2709316138	0.284611168	0.326263269
## 136	-0.034962010	-0.0771867992	0.4801351242	0.120453906	-0.004250071
## 137	-0.122518774	-0.0405932257	0.1276713597	-0.179288217	-0.587121976
## 138	0.283851621	-0.4784166505	0.2712629360	-0.161184465	-0.192525522
## 139	-0.359000689	0.5141475635	0.0740429550	0.017925508	-0.502880814
## 140	-0.304087853	-0.5315439328	0.3789450038	-0.220212790	-0.054782388
## 141	-0.201649883	0.0411576860	-0.2778554805	0.545681469	1.032685628
## 142	0.224255692	0.0717775353	-0.3142999332	0.047188018	0.389131471
## 143	0.619823166	-0.2871655632	-0.3269969517	0.150809307	0.738227378
## 144	0.334483798	0.2140508890	-0.3906301655	-0.033213761	0.196637994
## 145	0.133092759	0.4069905465	-0.0885458900	0.087359966	0.195849061
## 146	-0.244268663	0.4613261960	0.2439974220	0.020268427	-0.573970837
## 147	0.051808150	-0.0000592455	0.1799894795	0.070940726	-0.001822077
## 148	-0.221197821	0.4045613500	0.0199835765	0.037379989	-0.611605512
## 149	-0.123793922	0.1516006775	0.0988698410	0.247230053	0.226888178
## 150	0.193412780	-0.2882224163	-0.0729730647	0.217011572	0.609473631
## 151	-0.035673604	-0.0945537005	0.0109123260	0.252556660	0.376195583
## 152	0.066387928	0.4048036095	-0.1235105610	-0.112141598	-0.105718556
## 153	0.668400370	0.0734633440	-0.2517116635	-0.302097389	-0.564498357
## 154	0.162674461	0.1876560077	-0.0647559027	0.381509843	0.232857786
## 155	0.381966321	0.3395882937	-0.0142956638	0.087160058	0.405734652
## 156	-0.036563665	-0.5227697705	0.0517823795	0.398458571	0.363679831

##	pp_YB.1	pp_YB.1.pS102	pp_c.Abl	pp_c.Jun.pS73	pp_c.Kit
## 1	-0.3118676030	-0.026892803	-0.157971429	0.089281242	0.797100265
## 2	-0.0624877100	0.123237384	0.018522040	0.403642730	0.706402702
## 3	-0.0164871805	-0.217156864	-0.337285027	-0.258973429	0.223547999
## 4	0.0613122848	-0.024251721	-0.249833227	-0.037998422	-0.209257604
## 5	-0.2026657200	0.326595782	0.079468180	0.291006775	1.063076117
## 6	-0.0853099825	0.094324854	-0.209441600	0.104892990	1.246453715
## 7	-0.3341954915	0.266538586	0.084942729	0.139356231	2.117220493
## 8	-0.1671307070	-0.015559006	-0.101529900	0.132949850	1.234882873
## 9	0.3923135270	-0.099383209	-0.088220513	-0.021185077	0.040928784
## 10	0.0524193982	0.010978953	0.002083921	-0.104163818	-0.140516309
## 11	-0.2833948445	-0.225629670	-0.034839880	-0.151599404	-0.157211761
## 12	-0.1911076630	-0.148616698	-0.028110830	-0.031184669	0.008200576
## 13	0.6116658755	0.140300599	0.204585152	0.289074300	1.761822984
## 14	0.1170631745	0.543215753	0.055529850	0.067960661	-0.435548889
## 15	-0.0134061015	-0.347180477	-0.126434471	0.172335642	-0.369682399
## 16	-0.0403394995	0.765036590	-0.123189559	0.104607994	-0.152981948
## 17	-0.3580174630	-0.596954539	-0.055229092	-0.033862126	-0.232583917
## 18	0.1698240780	-0.175947326	-0.044863648	0.155323625	-0.366327976
## 19	-0.2224589700	-0.227126254	0.150639117	0.233386963	0.024230018
## 20	0.0283933445	0.010348942	-0.184969523	0.134238667	-0.559961752
## 21	0.0874560200	-0.046727380	-0.235285456	-0.224325593	-0.051438081
## 22	-0.3622336950	0.506762277	-0.273747750	-0.359007069	1.493104394
## 23	-0.0547983195	-0.131295842	0.038125983	0.063361133	0.621118719
## 24	-0.1572150545	-0.043299824	0.000951774	-0.083467407	0.350988224
## 25	-0.3431925020	-0.182535516	-0.084016375	0.361510054	-0.481463846
## 26	0.3490669635	-0.427299393	0.073663679	-0.170691044	-0.209905852
## 27	0.3425019985	0.548060769	-0.397840631	0.401960121	-0.018720552
## 28	0.2633338635	-0.079463007	-0.051919740	0.058257712	-0.033958833
## 29	0.3444159175	0.473783943	0.017033927	0.529597615	1.652766506
## 30	-0.0191827720	-0.278316670	-0.104079709	0.292586911	0.645826410
## 31	-0.3233533795	0.279681119	-0.061044294	0.037345508	0.418777130

## 32	-0.1198097535	0.391834336	-0.181745421	0.018441094	-0.064599182
## 33	-0.4705062410	0.360448329	-0.102719383	0.113781893	1.335909393
## 34	-0.0392267180	0.170036344	-0.173062373	0.074541486	0.894982500
## 35	0.0000000000	0.032255921	-0.071232738	0.046746412	0.054685151
## 36	-0.6271883770	0.384846013	-0.054362795	0.134098288	1.897872682
## 37	0.4520299545	-0.409808564	0.287245916	0.004393015	-0.431984753
## 38	0.0330720340	-0.194821819	-0.093307185	-0.247647653	-0.248862628
## 39	0.0347914920	-0.178067156	-0.132441890	-0.192175034	-0.220889732
## 40	0.1119975025	0.144939921	0.059058581	0.302906650	1.469386094
## 41	0.5310091450	0.131887364	-0.172955192	0.240901066	1.735619173
## 42	-0.0663240715	0.154895673	0.063996176	0.565474167	0.368895851
## 43	-0.1804923220	0.227840270	-0.319042932	-0.006656705	0.183550207
## 44	-0.5108911655	-0.049547746	0.009036055	0.341252575	1.010907098
## 45	0.9343609230	0.124551792	-0.388447752	-0.369895056	1.058406493
## 46	-0.3172046725	-0.350080543	-0.302751326	0.138828146	0.515563963
## 47	-0.4647422610	0.085020886	0.364318743	0.181030022	0.763980102
## 48	-0.5640743080	-0.151628415	0.282273018	0.029789081	1.117096654
## 49	-0.2783881220	-0.046353729	-0.120440185	0.488507850	0.725153359
## 50	-0.0784535415	0.622082361	0.270186512	0.342372432	-0.335549053
## 51	-0.0982188595	0.009561980	0.017993934	-0.128315316	0.284862214
## 52	0.1026667070	-0.403690706	0.059026265	0.628875374	1.844250782
## 53	-0.0637603360	-0.367332086	0.165409134	-0.118465361	-0.578713052
## 54	0.1982884450	-0.413595539	-0.315863920	-0.163446657	-0.574374522
## 55	-0.5635486010	-0.245828769	0.710417540	-0.434484991	0.602759929
## 56	0.0938416405	0.164189132	-0.088615722	0.150149644	0.214896528
## 57	-0.4584831325	-0.042679173	0.014176539	0.231879769	1.000850077
## 58	-0.1958875485	-0.063635931	0.017063256	0.184736536	0.869973244
## 59	0.0697303360	0.414437552	0.432288676	0.650016343	0.816600685
## 60	-0.5431261555	-1.028468369	-0.174581542	-0.308050536	0.040530113
## 61	0.0966362130	-0.035900217	-0.173402324	-0.088130099	0.165508014
## 62	0.2250359020	0.007900242	0.086181380	-0.430784279	0.712639875
## 63	0.1566850155	-0.115349053	-0.003415576	-0.162823627	-0.214512498

## 64	0.8931530325	0.572334184	0.093741046	0.416934239	0.844920757
## 65	0.6538983188	0.183520938	-0.063938043	-0.041030750	0.557624143
## 66	0.2819277633	0.102223764	-0.087325765	-0.495796736	-0.067056591
## 67	0.2060243275	0.059835769	0.064989730	-0.006637086	1.480064005
## 68	-0.6251104948	0.333398293	0.385359825	-0.215397009	1.335144721
## 69	-0.6131385925	-0.322979297	0.173682679	-0.103460773	0.894352938
## 70	0.3996324243	-0.402754266	-0.162897828	-0.099072996	-0.909001610
## 71	0.8966910762	-0.343217948	-0.145165526	-0.229299277	-1.251120945
## 72	-0.3606013620	-0.435647150	-0.069452656	-0.011210275	-0.518231887
## 73	0.3413813283	-0.227892934	-0.218545943	0.088548974	-0.549040823
## 74	-0.0843665100	0.213497194	-0.023657972	0.276911201	-0.173088010
## 75	-0.0095243025	0.974576564	-0.280137042	0.199586146	3.075982320
## 76	-0.1324042990	0.132565768	-0.156661723	0.073313136	-0.528234351
## 77	-0.1137062095	-0.258902826	-0.021961776	-0.085269320	0.463108639
## 78	0.3408659740	0.488619115	-0.320374110	0.587464666	1.510716462
## 79	0.1079819765	0.644258623	0.049830155	-0.061702625	0.567812771
## 80	0.2968143560	0.113091867	-0.095066154	-0.021069785	-0.213198249
## 81	-0.1977512675	-0.546717260	-1.077717394	0.475198193	-0.713506626
## 82	-0.0563253465	-0.173282738	-1.117599388	0.644478014	-0.025101847
## 83	0.1122870090	-0.024681933	0.291982503	-0.011433234	2.683435370
## 84	0.1232778153	-0.209625562	0.086315983	-0.007268536	-0.460138928
## 85	0.2664908867	0.362494750	-0.222299740	0.475774064	-0.826745780
## 86	-0.3498727395	-0.149588020	0.043499936	-0.082751371	0.089610550
## 87	0.6193778802	-0.037001472	-0.789671173	-0.268830719	0.297999073
## 88	-0.2400230560	0.133255274	-0.415899529	0.240849507	-0.584500568
## 89	-0.0957461900	0.277484664	-0.315578180	0.290818767	-0.401858878
## 90	0.0285468183	-0.083482938	-0.135834551	-0.100017939	-0.525562458
## 91	0.3546603095	0.235166434	-0.023948073	-0.036578923	-0.580460825
## 92	0.0742363205	0.281751019	-0.124293755	-0.037267307	-0.079106038
## 93	-0.3193540805	-0.138006937	0.091092844	0.182958107	0.138289036
## 94	0.5021535338	0.043251724	-0.366774172	0.025897517	0.799246857
## 95	0.3957000205	-0.086449926	-0.092647069	-0.169129604	0.115266709

## 96	0.0947768740	0.468309507	-0.134645723	-0.003589933	-0.587851270
## 97	-0.2206726042	0.120536973	0.128880219	-0.097983077	0.031733457
## 98	-0.1576081255	0.291297648	0.505634136	-0.320189944	0.871289187
## 99	0.1762718500	0.103212843	-0.058534524	-0.064469229	-0.757292556
## 100	-0.1693047140	0.219101828	0.026781963	0.257045242	-0.536992052
## 101	-0.1374553713	-0.114811338	-0.137016791	-0.102672788	-0.588671013
## 102	-0.0574286902	0.217053914	-0.076111444	-0.110521273	-0.623937283
## 103	0.0493491685	0.275811373	-0.195206143	0.269150192	-0.674976649
## 104	0.0000000000	0.265868889	0.025133294	0.034665123	-0.310557299
## 105	-0.0143997995	0.156852827	-0.002401697	0.542977014	-0.509354216
## 106	-0.0399163842	-0.018907508	0.034278639	0.035030641	-0.124469928
## 107	0.0146542660	0.332567114	-0.077750933	0.361082136	-0.452669507
## 108	-0.3364618175	0.005138829	-0.083774250	0.123749183	0.110026815
## 109	-0.2475850900	0.093820957	0.091534643	-0.091236299	0.013640824
## 110	0.0293191410	-0.025013987	0.211016774	0.163521959	-0.534803990
## 111	-0.2266027165	0.722146536	0.035054759	0.289420776	-0.452975189
## 112	0.1736984625	0.296969263	0.153458815	0.039403005	1.110527017
## 113	-0.1927420575	0.047238153	-0.140882353	0.119871379	-0.408707991
## 114	0.2876096785	0.474055728	-0.053292724	-0.254593882	-0.247635146
## 115	-0.0279353315	0.119255655	-0.152508969	0.321849644	-0.024791083
## 116	-0.1366961918	0.086696147	0.087970139	0.450416654	0.107720809
## 117	-0.2838593672	0.171996614	-0.116611958	0.113213196	-0.302385150
## 118	0.1778067930	0.142108967	0.338096725	-0.102629618	-0.550485288
## 119	-0.3107058690	0.439919408	-0.074392518	0.194376296	1.225647907
## 120	-0.0993619105	-0.116105769	0.049276920	-0.020054505	-0.403389138
## 121	-0.0037841482	-0.104871666	0.017870726	-0.120346587	-0.256852411
## 122	0.2807252945	0.630295400	-0.826472339	0.575198742	0.533917233
## 123	-0.0755362805	0.200606461	0.194212692	0.040015534	-0.085597253
## 124	-0.2699140060	0.040302767	0.171517516	0.068950150	-0.417648113
## 125	0.1085794900	0.053407715	-0.111942589	0.017789587	-0.792524393
## 126	0.4562719385	-0.045842259	0.124883276	0.012608128	0.470879273
## 127	0.0737355890	-0.195182578	-0.054986282	-0.060982444	-0.829839003

## 128	0.1033800125	0.221419584	-0.129657425	0.312633120	-0.837774225
## 129	-0.1275324315	0.483031983	0.269464384	-0.426478230	-0.659311668
## 130	-0.4996775055	0.419949244	-0.094391528	0.086713046	-0.300343649
## 131	-0.2302961905	-0.157373270	-0.162321965	0.247175193	-0.698610796
## 132	-0.1764476810	0.145947783	-0.130198078	0.007190004	0.571526426
## 133	-0.1947016885	0.097355671	-0.264763755	-0.219156850	-0.458928915
## 134	0.0484572457	-0.061815737	0.239022643	-0.005290568	-0.253482332
## 135	0.0951574542	-0.192650485	0.129738628	-0.012141882	-0.100933600
## 136	0.0813815468	-0.149944615	-0.129705001	-0.202654793	-0.153904676
## 137	-0.0008208757	-0.166701148	0.364503074	-0.012604394	0.448295174
## 138	0.0863261005	-0.023697606	-0.129055990	-0.031686630	2.421305033
## 139	0.1079946225	-0.253567852	0.029609685	-0.264747062	-0.340957823
## 140	0.1710020762	-0.261474921	-0.005666830	-0.332852751	-0.341756114
## 141	0.1085742170	0.249390601	-0.077533271	-0.265337914	0.716759279
## 142	-0.0596679487	0.227731024	-0.192920201	0.233745245	-0.442947026
## 143	-0.2017021103	0.102244267	0.015846575	0.065941110	3.205064833
## 144	-0.0891196160	0.300394008	-0.183187941	-0.028988704	-0.380668838
## 145	-0.1276447595	0.283338245	-0.107245411	0.225960187	0.888408825
## 146	0.5523779220	-0.616899115	-0.178471989	-0.329716665	-0.631703436
## 147	-0.0239555725	0.358058794	-0.337266652	-0.094702026	-0.666131420
## 148	0.1735627710	-0.063515539	-0.029474805	-0.184514254	-0.092105441
## 149	0.1365579265	-0.032539697	0.132924840	-0.099474138	-0.213245117
## 150	-0.0881880153	-0.067666937	-0.246297920	-0.012148920	1.836929194
## 151	0.0911184435	0.049895313	-0.087046022	0.182759805	1.122340347
## 152	-0.0057532235	-0.085473233	-0.009458958	-0.084826007	-0.007752473
## 153	-0.2557858950	0.002124897	0.028911482	0.133731261	-0.204716752
## 154	0.0170623158	0.261344325	0.046858004	0.327001050	-0.205619752
## 155	0.0932110737	0.282740384	-0.132101986	0.421319044	1.190091387
## 156	0.1001150645	-0.240812428	0.264906372	0.049030293	0.369870769
##	pp_c.Met	pp_c.Myc	pp_c.IAP	pp_eEF2	pp_eEF2K
## 1	-0.159530834	0.383546188	0.236109634	-0.144989427	0.6446010655
## 2	-0.076541298	-0.213369950	0.006367988	0.089477264	0.0751703540

## 3	-0.001280385	-0.052187236	0.312086154	-0.243315461	0.0558004770
## 4	0.232405600	0.159074400	0.228234371	-0.547761985	0.6171304273
## 5	-0.092542402	0.241797774	0.128055461	-0.343212723	-0.2111990685
## 6	-0.199392302	0.430487286	0.222699492	-0.187830472	-0.7775273655
## 7	0.297226351	1.174591427	-0.239057207	-0.482517706	0.0402334510
## 8	-0.072218793	-0.092861363	0.167918869	-0.071599473	-0.1395921745
## 9	0.138641301	-0.005866656	-0.141608416	0.185589483	-0.3777133805
## 10	-0.136205527	-0.583131968	0.154074697	-0.021060238	0.3392340697
## 11	-0.152431353	-0.555435347	0.184993258	0.164301233	-0.1576186170
## 12	-0.007824425	-0.318532264	-0.165662873	-0.042195300	-0.1823945050
## 13	0.180848362	0.666514782	-0.175475136	-0.106921399	-0.4388102825
## 14	-0.019470220	-0.053088596	0.131805973	0.191214937	-0.6776027125
## 15	-0.016942492	-0.087288315	0.446295759	-0.107005756	0.6138318835
## 16	-0.167620499	-0.139496816	0.239452688	0.000000000	0.1582030295
## 17	-0.038265498	-0.106710555	0.145812902	0.041186706	0.5492307100
## 18	0.114447704	-0.083205799	-0.045508912	-0.222517247	0.3638448080
## 19	0.000000000	-0.057596923	0.087254351	0.054506088	0.4836844220
## 20	-0.043688719	-0.190480585	0.402095245	-0.136885737	0.0156475465
## 21	-0.050688565	0.112016380	0.097968045	0.097120360	0.0289012020
## 22	-0.132219625	-0.304362374	-0.047571150	0.053556040	-0.3665459090
## 23	0.114203912	-0.421860522	-0.180957600	0.307311211	-0.5061573645
## 24	0.233654708	0.236577546	-0.054964514	-0.048896254	-0.8865190520
## 25	-0.221816071	-0.012709890	-0.075743109	0.156925640	1.0286630820
## 26	-0.129443320	-0.341973338	0.003227856	-0.319695041	0.5146575315
## 27	-0.059527065	0.228924808	0.165224018	-0.104845037	0.2025100375
## 28	-0.039797467	-0.095737221	-0.202238962	0.327008056	0.1738136035
## 29	0.608673665	0.504351185	-0.320357334	-0.675573473	-0.6898348835
## 30	0.546761511	0.270760192	0.122707974	-0.753158668	-0.3818213500
## 31	0.423151911	0.064778667	-0.132502394	-0.588134251	-0.6904966895
## 32	-0.274483123	-0.478208226	-0.513926747	-0.324634873	0.1697858275
## 33	0.176188644	0.043274533	-0.485558550	-0.351830665	-0.2476343110
## 34	0.345389798	0.069095050	-0.137201230	-0.599969196	0.0594545500

## 35	-0.108312132	-0.077959206	0.118132051	0.102485465	0.0114024860
## 36	-0.336705902	-0.482741902	-0.442173782	-0.123802686	-0.5938552600
## 37	0.062717573	0.504487892	0.067999904	0.059038658	0.4358063995
## 38	-0.370624358	-0.335049645	0.154632838	0.327415787	0.1121203160
## 39	-0.272012965	-0.278222774	0.142999075	0.363387542	0.1654743350
## 40	0.224605764	0.348044708	-0.003048021	0.002157182	-0.1824877685
## 41	-0.049766495	0.551811286	0.174501130	0.389399755	-0.3770463660
## 42	0.028568052	-0.200089090	0.213425053	-0.078256402	0.0302843125
## 43	-0.051895749	-0.214897528	0.019823459	0.084149909	-0.3521331780
## 44	0.542156849	-0.043658988	-0.233561137	-0.342740854	-0.2747536815
## 45	0.558295306	0.364150380	-0.530698398	-0.891590222	-0.4502569400
## 46	-0.264240584	0.335574427	0.015051690	0.139148808	0.9593529655
## 47	0.038130699	-0.455171742	-0.510300050	-0.043803325	0.4816633960
## 48	0.028619516	-0.396326383	-0.586690139	0.114178048	0.1415016020
## 49	0.657157232	0.286285464	-0.380036488	-0.581966367	-0.6488245050
## 50	-0.081157519	-0.281647691	-0.183398125	-0.100722375	0.5473727335
## 51	0.021799836	-0.240298209	-0.385955441	-0.131322080	-0.1765825685
## 52	1.072530669	0.717659931	-0.413868929	-0.878311224	-0.4959477010
## 53	-0.211973355	-0.452701904	-0.183456090	-0.006860723	-0.2157906630
## 54	-0.036471663	0.197058895	0.102458999	-0.010487165	0.1518562160
## 55	-0.002392343	-1.124009489	-0.855565046	-0.289652937	0.3718279570
## 56	0.115521780	0.427524282	-0.090509210	0.089786381	-0.0246523115
## 57	0.644887908	0.105500320	-0.406003408	-0.422522011	-0.1866177405
## 58	0.135706497	-0.483282292	-0.593157322	0.037557069	0.0159501275
## 59	-0.119042071	-0.024150731	-0.235340421	0.138199036	0.4969966390
## 60	0.200394044	-0.423161939	-0.233416700	0.046510022	0.3666111995
## 61	0.312506884	0.529346776	0.131384645	-0.389731553	-0.2393515905
## 62	0.146334690	-0.485358395	-0.087207732	0.590991124	-0.4442528235
## 63	-0.103854476	-0.578955235	-0.228542117	0.745522603	0.0460220450
## 64	0.994812616	1.962346500	-0.222222713	-0.776056001	-0.8461379640
## 65	0.461241705	0.737091935	-0.196238416	-0.191765199	-0.4791020923
## 66	-0.049391521	-0.288837158	0.343040627	0.828056625	0.3989522107

## 67	0.821843657	0.716802831	-0.287755319	-0.428914430	-0.3868937110
## 68	0.479513432	-0.411294722	-0.176456627	-0.141773789	-0.8950174008
## 69	-0.123715270	-0.482590907	0.366528833	-0.100279217	-0.4102844305
## 70	-0.168479793	0.541715737	0.122137579	-0.041864007	-0.3710368057
## 71	0.644489947	0.914426905	-0.097775115	0.151121241	-0.2094098688
## 72	-0.040788607	-0.151149858	0.182835539	-0.156186054	-0.2380903610
## 73	0.024855926	0.252889927	0.604772096	0.176530593	-0.0472912438
## 74	0.099558138	-0.122895656	0.039147779	-0.608433776	-0.0480298940
## 75	0.014694238	-0.050953867	-0.022991207	-0.037517759	-0.0524875845
## 76	-0.086643439	0.107690706	-0.090982392	0.028375008	0.0366321120
## 77	0.477914881	0.260660442	-0.293021508	-0.122520598	0.0402620645
## 78	-0.047434868	0.432415206	0.058954500	0.037821427	0.0046020360
## 79	0.111213650	-0.100062391	0.057249471	-0.020507101	0.3807568225
## 80	0.207017055	0.663875902	-0.272466729	-0.230088360	-0.7403087605
## 81	0.962480193	2.259394037	0.732043416	0.616972870	0.5277571715
## 82	0.306197495	1.284397593	-0.169492885	-0.005870151	-0.0001061145
## 83	0.430377646	0.155404505	-0.044994699	-0.348092265	-0.2773262860
## 84	0.270105787	0.330608428	-0.049463866	-0.264148695	0.3001712672
## 85	-0.107148829	0.129409967	0.231880052	-0.105440316	-0.5174667213
## 86	0.149541627	0.080562452	-0.227564044	-0.794594326	-0.4654994255
## 87	0.282227237	0.467807976	-0.475566165	-0.432230445	0.2672702858
## 88	-0.014510637	0.139723070	-0.028019251	0.255107199	0.0001309330
## 89	0.015055989	-0.128390500	0.178596771	0.142173855	-0.1162619820
## 90	-0.029558344	-0.355580564	0.226107665	0.282157683	0.5953583587
## 91	0.054751397	0.193134787	0.207025107	-0.080286806	-0.1405124105
## 92	0.096394602	0.200910766	0.098964363	-0.245278930	-0.2415060875
## 93	0.089625304	0.376876053	-0.091048632	-0.158476431	0.0489422615
## 94	0.718053873	0.740175767	-0.465873286	-1.035210586	-0.4299433377
## 95	0.380852794	-0.085288654	0.285402463	-0.072471327	0.2043270260
## 96	-0.170245028	-0.110050108	0.228727100	-0.007686505	0.0984209580
## 97	-0.164969762	0.011482672	0.711752110	-0.559178978	-0.6828364717
## 98	0.045496556	-0.578549110	-0.052385471	-0.172684026	-1.0723418145

## 99	-0.230175799	-0.184407084	0.035709017	0.030730856	0.0963913700
## 100	-0.057008756	-0.396930198	0.360066558	-0.174607807	0.7770072190
## 101	-0.024030777	-1.139306893	0.204859291	0.002243682	0.8182596372
## 102	-0.110548503	-0.766900782	0.256359451	-0.197954524	0.7624569983
## 103	0.028756883	-0.132656772	0.130552371	-0.244152859	0.7427040925
## 104	0.343601445	0.196128423	0.049290857	-0.203060894	-1.2331008890
## 105	0.041252829	0.060882341	-0.400154365	-0.443877005	0.5124961265
## 106	-0.060241064	0.136130684	0.101355937	-0.256362115	0.8630914672
## 107	-0.168164995	-0.238841955	0.011066140	0.040909273	0.6196359780
## 108	-0.402729799	-0.291612020	-0.088720868	-0.146171811	0.2867580405
## 109	0.047340023	-0.091371460	-0.812670865	-0.064184860	0.1198538410
## 110	-0.010039363	-0.213359249	0.147124054	-0.008806364	-0.3337511840
## 111	-0.073748137	-0.221997009	0.051224356	-0.026060006	-0.3984515775
## 112	0.352122948	0.093406032	-0.198272032	-0.257669214	-0.0316387185
## 113	-0.135077406	-0.340915021	-0.096641696	0.015474630	-0.9194966395
## 114	-0.155677553	0.161830836	0.115321009	-0.121738694	0.6232806545
## 115	-0.015000737	0.475103190	-0.260251218	-0.092682148	-0.1258759590
## 116	-0.134625241	0.192118896	0.042903797	-0.412440017	0.1139974518
## 117	0.070818891	0.194138280	0.064088065	-0.500967113	0.8244463453
## 118	-0.034402010	-0.428126905	-0.100175950	0.581625664	0.2641861130
## 119	0.662754366	0.452004684	-0.032555487	-0.718335185	-0.5368650970
## 120	-0.097815488	-0.584809212	0.611677949	-0.091691974	0.5570298510
## 121	0.039773257	-0.447074758	0.393454029	0.104240073	-0.0762189017
## 122	0.114203876	0.217100708	-0.254195273	-0.491624576	0.0428879645
## 123	-0.074803826	0.284830200	-0.134768647	0.136138726	0.3633372615
## 124	0.110251507	0.084551547	-0.041723938	0.007785756	0.2523443050
## 125	-0.073752810	-0.042504325	0.275156572	0.095112238	-0.0293728800
## 126	0.530200284	0.710472162	0.029672678	-0.291658843	-0.1856966895
## 127	-0.129780551	0.063346891	0.186922112	0.013049310	-0.0977482550
## 128	-0.079583943	-0.406887365	0.356204727	-0.041468925	-0.1176665035
## 129	-0.257856937	-0.398640427	0.050933202	0.294668877	-0.0923005735
## 130	-0.213993980	-0.103044569	0.040565811	0.241709815	-0.1275900325

## 131	0.047895857	-0.372569002	0.369468949	0.189578762	0.0816705875
## 132	0.175476265	-0.041317126	-0.210728692	-0.144695959	0.3402565360
## 133	-0.117755436	-0.203367333	-0.014597892	0.017351641	-0.0838978605
## 134	-0.015547595	-0.387287914	0.046780092	0.049357440	0.2880271677
## 135	0.215328879	0.021345735	-0.147462789	-0.280098826	0.0242904313
## 136	-0.021301558	0.041842828	-0.158287384	-0.048638211	0.7815321902
## 137	-0.102498570	0.026652946	0.204794112	0.204036402	0.7689721447
## 138	0.069001914	-0.744886505	0.117628483	-0.034476899	-0.3718845730
## 139	-0.034525901	-0.411567300	-0.196394220	-0.004632873	0.3298325560
## 140	0.001387266	-0.333268031	0.042730771	0.211150312	0.0429664428
## 141	0.011027486	-0.394261203	-0.025808937	0.035497593	0.1188649515
## 142	-0.148176358	-0.543453377	0.001427029	0.145302056	-0.1065481002
## 143	-0.003408527	-0.288670779	0.297472541	0.132810721	-0.4096509588
## 144	-0.107848945	-0.362528913	0.184479439	0.141394458	0.3457968265
## 145	-0.064636603	-0.047322303	0.038037658	-0.203107797	-0.6549268790
## 146	-0.059105526	0.362881407	0.226994810	0.007680678	0.2076817050
## 147	-0.115731512	-0.135155860	0.229030866	-0.089972409	0.1000265515
## 148	0.040488727	0.074191221	-0.326087142	0.517069880	0.9584250145
## 149	-0.017811049	0.223742075	-0.025420530	-0.513877793	0.5416343740
## 150	-0.010852927	0.129063478	-0.190584838	-0.409833968	-0.0139387018
## 151	0.334940052	0.699263347	-0.170270194	-0.442930618	-0.0855128780
## 152	0.080588442	-0.337085740	0.137150048	-0.189825996	-0.1062034590
## 153	-0.009362139	-0.160217552	-0.016281471	-0.034220831	-0.2942746305
## 154	0.242857143	0.924947283	-0.358840376	-0.309605658	-0.2737049357
## 155	0.065070419	0.405996873	0.193262045	-0.292113311	0.0805952943
## 156	0.275788490	0.116818904	-0.650302264	0.077611334	-1.0272688695
##	pp_eIF4E	pp_eIF4G	pp_mTOR	pp_mTOR.pS2448	pp_p16.INK4a
## 1	0.0576216950	-0.201801367	0.2800510975	0.003706660	0.19042821
## 2	0.4033372120	0.344308456	-0.4349115625	0.258329747	0.89019386
## 3	0.2268358535	0.051262568	0.0323219740	-0.128815228	-0.01236628
## 4	0.0180540017	-0.025084983	0.5334513362	0.069395288	-0.31174931
## 5	0.1980177360	-0.402711605	-0.2610131525	-0.019797394	0.45060184

## 6	-0.0755110135	0.930025309	0.6521127430	0.310265742	1.47420144
## 7	-0.0877547865	-0.428336891	-0.3546296040	-0.100941827	-0.42577514
## 8	0.2838658030	0.475130325	-0.3271927305	-0.188794444	1.43353410
## 9	0.2324819600	0.369399077	-0.1071783095	-0.239197882	2.32635959
## 10	0.0479931813	0.161900901	0.1992041478	-0.087682939	0.15188886
## 11	0.1071090865	0.078639084	0.2688206100	0.191496022	-0.14695214
## 12	-0.0855923650	-0.380636516	0.0506103455	0.430898819	-0.53360579
## 13	-0.0743029875	0.456302514	0.2673370120	-0.028350539	1.90329693
## 14	0.2583908875	-0.386561270	-0.3511617730	-0.332096803	0.75074755
## 15	0.0407055915	0.528979060	0.3749115860	0.085439101	-0.69772924
## 16	-0.1566629925	0.044547864	0.5157047470	-0.020351765	0.66577167
## 17	0.2537142180	-0.459938226	0.3910298365	0.135401553	0.85863864
## 18	0.2938253390	0.702947048	0.4187732945	0.105635587	-0.43810850
## 19	-0.0405472150	-0.283911076	0.0837198895	-0.260552447	1.00140076
## 20	-0.1153866895	0.686428385	0.7566754170	0.225222723	-0.83524904
## 21	0.1872401400	0.865809513	0.1612742235	0.093070676	1.07291952
## 22	0.0631346990	-0.753961656	-0.3013229725	-0.511149761	2.84318419
## 23	0.4566191035	-0.195926922	0.2685692800	0.284954392	-1.16336467
## 24	-0.1972883045	0.274614757	-0.5832149780	-0.246563859	1.10857061
## 25	0.0044006910	0.054529671	0.6849919345	0.408339043	0.85331286
## 26	0.0156887645	-0.288199545	0.2366856280	0.822659783	-0.71742723
## 27	-0.2238193505	-0.216974512	0.6369619840	0.278787293	1.45630236
## 28	0.0088714805	0.172156285	0.6360990310	0.273201967	-0.44467578
## 29	-0.1789982155	-1.262260985	-0.9813730640	0.211002375	-0.87714802
## 30	0.0007582120	-0.643401279	-0.2137808195	-0.078094572	0.01453704
## 31	0.1091353225	-1.372782388	-0.7010463470	0.512413301	-0.21798678
## 32	0.2900911825	-0.301459046	0.3523340620	0.196555491	0.82459354
## 33	0.6086956420	-1.514866714	-0.5689053825	-0.210795211	0.49086633
## 34	0.1937674250	-0.561783124	-0.1538747625	0.123452778	1.37825594
## 35	-0.1797722230	0.261565532	-0.0944161595	0.022711935	0.83201608
## 36	0.1685026520	0.037563394	-0.7332464345	0.385941255	1.67510933
## 37	-0.2306116345	-0.077580143	0.9469208890	-0.737486968	0.47273086

## 38	0.0000000000	0.354564365	0.2707833185	0.235447984	0.41078982
## 39	-0.0106349360	0.681888686	0.6173326445	0.218051165	0.45034228
## 40	-0.2216797545	0.967491731	0.0349494560	-0.221667482	2.03662550
## 41	-0.2891070350	0.490650490	0.4312906145	0.360522244	0.24655684
## 42	-0.1517439565	0.563430182	0.5140622270	0.361615621	0.02071118
## 43	-0.0438005860	0.401625650	-0.1960240165	-0.061039302	1.79923295
## 44	0.0436405105	-0.830668736	-0.7947014110	-0.393738635	-0.92661855
## 45	0.1815400560	-1.024532866	-0.6613402925	-0.544044851	1.27854718
## 46	0.1128356265	0.395791552	0.6679917500	0.038404136	0.54197526
## 47	0.3796220750	-0.597887123	-0.0947615585	-0.095377700	-0.13737941
## 48	0.3534550050	0.327186862	-0.3906686845	-0.251359180	0.10464086
## 49	-0.2508941380	-1.315144015	-0.8418840095	-0.476157513	-1.48967852
## 50	0.1709055865	-0.159280299	0.1349934780	0.250591487	1.04323652
## 51	0.0223066765	0.419479981	0.4642992190	0.400877068	1.69236112
## 52	-0.2832876520	-1.920290407	-1.1718482495	-0.926953647	-1.49393998
## 53	0.0090218090	0.871090889	-0.1440882365	-0.019326293	-0.09650300
## 54	-0.0514289120	0.369959706	0.3633159455	0.121079221	0.04572607
## 55	0.2279413510	-0.238683079	-0.2494695155	-0.653533421	1.53724090
## 56	-0.0101482005	0.583428333	-0.2754849480	0.021540183	-0.09534371
## 57	-0.0556029515	-0.861371540	-0.9350679210	-0.423295182	-1.16873417
## 58	0.2465090965	-0.863903008	-0.3771208940	-0.321247823	0.46234206
## 59	0.2545281250	1.242166870	-0.1685259405	-0.599018567	2.89410728
## 60	0.5496573805	0.272047710	-0.1564113990	-0.763944346	0.43457944
## 61	0.4600832670	-0.068276005	0.2384909045	0.203987832	0.16642846
## 62	-0.0632532540	-0.374245659	0.1768064705	-0.040754648	0.05975710
## 63	0.0267174135	-0.008808148	0.2401771280	0.047815194	-0.10202703
## 64	-0.1040227475	-0.582811601	-1.2935887370	-0.192918189	-0.75299864
## 65	-0.0154147058	-0.460524372	-0.6941314687	-0.092688157	-0.48939240
## 66	0.0874898183	0.093565828	0.5062093227	0.025335249	-0.39633837
## 67	-0.3462746115	-0.645021154	0.0053474440	-0.095877248	0.02219835
## 68	0.0669621447	-0.809826477	-0.8435534802	-0.230928723	0.63179983
## 69	0.4167998040	-0.738861379	-0.3463631310	-0.365809986	0.46028721

## 70	0.2318681657	0.138560686	0.2160540067	-0.116592441	0.21535301
## 71	-0.1585929503	-1.237731981	-0.1987124832	-0.567558547	-0.35170962
## 72	0.5245261595	0.327060019	0.2069134495	-0.248076677	-0.47367695
## 73	-0.2189697742	0.569058610	-0.1217753582	-0.256460167	1.50099016
## 74	-0.1402073790	-0.270779275	0.6689936405	0.534272415	0.39164968
## 75	-0.0237570525	1.576333989	0.4995262890	0.527548221	1.82185983
## 76	0.1022983090	1.439283590	1.0866431685	0.969584488	0.02206006
## 77	0.4793414175	-0.530204320	-0.6798618880	-0.215354656	-0.86486710
## 78	-0.2341940740	0.690424765	0.0302384795	-0.010820029	0.69492143
## 79	0.0556871845	0.474325135	-0.1492499530	0.060459964	0.11152899
## 80	-0.5515732020	-0.090056158	-0.3966048675	-0.222850549	1.38479662
## 81	0.2938079940	1.059698185	-0.2758761905	0.793583963	0.16574003
## 82	-0.0839846070	0.403415487	-0.8782748135	0.137301264	-0.13547959
## 83	-0.1880029065	-0.449548812	-0.1668232735	-0.299857684	0.42021474
## 84	-0.2186417902	0.059260192	0.0725287078	0.263843658	-0.08730406
## 85	-0.1214291508	0.792786088	0.1606388873	0.167170879	1.72700145
## 86	0.1739435015	-0.716494115	-0.2605313440	0.318960309	0.08864155
## 87	-0.1535473327	-0.353681499	-0.4464661122	0.132140148	-1.01789763
## 88	-0.0659760380	0.258226019	0.4383026595	0.486912128	-0.31209795
## 89	-0.2821666510	0.981840629	0.1694251825	0.622195546	-0.42426179
## 90	0.0847034093	0.400206938	0.7782988697	0.663684889	-0.91995355
## 91	-0.3963304995	0.915618731	0.0171104450	0.232295742	0.20146609
## 92	-0.3070106585	0.050003060	-0.3139278790	0.324573051	-0.27418074
## 93	0.0004178105	-0.125875696	-0.6633531950	-0.393154399	-0.26903507
## 94	-0.2802736323	-0.612874041	-0.9540943797	0.072230955	-0.74388804
## 95	0.0405205895	-0.080405394	-0.1278984140	0.130455503	-0.08208625
## 96	-0.1295892470	0.992231780	0.2709141555	0.638039559	-0.48989225
## 97	0.6433417688	-0.446668129	-0.2188975037	0.206730792	2.15294664
## 98	0.2656629715	-0.471146428	-0.3900493740	0.082023445	-0.09107855
## 99	-0.0153954110	1.120482803	0.8423619275	0.287127750	0.21743014
## 100	-0.1361473530	0.520296523	0.9880707995	0.335691212	-0.02326570
## 101	-0.2074138242	0.106987948	0.4330329263	0.217927388	0.10433396

## 102	0.3431091387	0.218707488	0.5133268703	0.347598664	-0.24438738
## 103	-0.2310560335	0.405062655	1.2286735680	0.881568215	-0.90494147
## 104	-0.2658934060	-0.055911213	-0.3697677855	-0.446976447	0.23012817
## 105	-0.0209472555	0.275145431	0.8418932450	0.549276959	-0.77116024
## 106	0.0351883598	0.063678347	-0.0008840697	-0.099982057	-0.08497131
## 107	-0.0127773370	0.727018389	0.9915920685	0.633934906	0.45877015
## 108	0.0383955035	0.507410443	0.6188760750	0.321589283	-0.50958085
## 109	0.0730011810	-0.132729517	-0.6493151955	-0.158836557	0.44871328
## 110	-0.0944085750	0.555199206	0.4721602355	0.450611947	-0.28496795
## 111	-0.1256971365	1.005231571	0.6061455770	0.598007636	1.31621508
## 112	-0.0062763725	-0.061022397	-0.2303352540	0.322662092	-0.61270777
## 113	-0.2538697545	-0.075440313	-0.4874842900	0.459748080	-0.57922642
## 114	0.1237300485	0.603352022	0.2407371820	0.168635428	0.53645816
## 115	-0.0708509255	0.261729343	-0.2149635490	0.042985461	-0.31768806
## 116	0.0330027793	0.021605523	-0.1331634523	0.091428912	0.54442812
## 117	0.3039772757	-0.020960700	0.0234699703	0.260613130	-0.16921154
## 118	0.1431340780	0.286867943	0.8177633965	0.653287005	0.04741624
## 119	-0.2478401160	-1.339732144	-1.1487204215	-0.382594772	-0.63554344
## 120	0.0848639755	0.276780643	0.0479791100	-0.053044194	-0.54969007
## 121	-0.0195129742	-0.297942069	0.2563224853	0.217137520	0.26826462
## 122	-0.1165899065	-0.086738435	-0.1472370980	0.480826005	-0.43552026
## 123	-0.3674709335	0.977396957	0.5965766860	0.168112430	-0.60203834
## 124	-0.0269408450	0.306853055	-0.2549866765	0.044241331	0.10276148
## 125	-0.0527639070	1.057577273	0.3564218135	0.370191664	0.25497615
## 126	0.0434007435	-0.263714255	-0.0168260570	0.320029063	-0.77118506
## 127	-0.1290021720	0.951370375	0.4230405475	0.185909342	0.14044081
## 128	-0.1519038845	0.991014056	1.0662230630	1.041315273	0.44069320
## 129	-0.0070813025	0.212476639	-0.2127336100	0.098016922	0.73262261
## 130	-0.0475933635	0.185556441	-0.0656199030	0.393929792	0.86808103
## 131	-0.0679334245	0.587661505	0.3186998470	0.287123222	-0.04682016
## 132	-0.1069504470	-1.285558896	-0.7777832435	0.248382989	-1.47048507
## 133	0.0049771685	0.163623004	0.2180565650	0.590436685	0.76623330

## 134	-0.0381116748	0.618465955	-0.2931436218	0.130043480	0.90328382
## 135	-0.2124042093	-0.093336545	-0.1530039362	-0.238280763	0.38164013
## 136	-0.2239231182	0.238563698	0.0089528433	-0.147733493	-0.02922304
## 137	0.2981352792	0.484259239	0.1134363567	-0.107389014	-0.24831194
## 138	0.0638328445	0.483577545	-0.4887332640	-0.366376150	1.13672124
## 139	-0.1320887925	0.623995920	0.3068949770	-0.235800968	-0.41392471
## 140	0.3118080113	-0.012829967	0.0084649598	-0.418457677	0.19238921
## 141	0.3952437610	0.646640473	-0.3986365725	-0.385621265	-0.70320139
## 142	-0.1504314478	0.293619303	0.3303763367	0.120973080	1.52973701
## 143	-0.2087303863	0.144838863	-0.1150263788	-0.106030254	-0.06569520
## 144	0.2026391910	0.259541244	-0.0727098025	-0.189956606	-0.51518291
## 145	0.2911885615	0.481034052	-0.3316430740	-0.086928774	-1.10522663
## 146	-0.4283394260	0.687613363	0.5342487475	-0.425531419	-0.67842781
## 147	0.1023952035	-0.138337843	0.5504714810	0.004101452	-0.33104783
## 148	-0.2333620400	0.756594885	0.0258808705	-0.362290946	1.15479043
## 149	-0.2618024195	-0.072421494	-0.1778740230	-0.331060919	-0.18307458
## 150	0.5558327577	0.212058893	0.5313773523	-0.266448708	0.12050492
## 151	0.0962356275	-0.275533692	-0.2243197270	-0.050161056	-0.27644079
## 152	0.1062884345	0.175677289	0.1449522240	-0.122319489	-0.27871239
## 153	0.0414712390	0.018892776	0.0460013505	0.164716262	-0.08002891
## 154	-0.2019895922	-0.181619449	-0.3033316788	-0.111210471	0.84243804
## 155	-0.2842935603	-0.160707616	-0.1509217948	-0.053159450	1.01699128
## 156	0.1883851645	-0.110027948	-0.6855655930	-0.383467238	0.01852002
##	pp_p21	pp_p27	pp_p27.pT157	pp_p27.pT198	pp_p38.MAPK
## 1	-0.2035868945	-0.022273439	-0.0270422340	-0.0433299720	-0.002598394
## 2	0.3009361070	-0.101746317	-0.0714062610	-0.2207636935	0.220809271
## 3	-0.0501212700	0.119749498	0.0012803845	0.0106151525	-0.133214000
## 4	-0.0829954587	0.780775716	-0.0244955382	0.0640704278	-0.384007691
## 5	0.4528598375	0.100469931	-0.0811894640	-0.0654880260	0.209858160
## 6	-0.5030418925	-0.305853569	-0.1111335565	0.1340298850	-0.338480293
## 7	-0.0203258930	0.230334132	0.3968761285	0.2769240065	-0.190843879
## 8	-0.2930015245	0.275344062	0.0238020860	0.0465661100	0.021015780

## 9	0.1398504215	0.378664783	0.0698089620	0.2239154600	-0.207887101
## 10	0.2534886277	0.465793863	-0.1267331587	-0.0276281447	0.092449761
## 11	-0.1651349730	0.536211540	0.0178353465	0.1368480625	0.121170433
## 12	-0.3752241210	0.249034888	0.0623752680	-0.1032348115	0.112179023
## 13	0.0993267695	-0.409968383	-0.0262864765	-0.0260055960	-0.304109548
## 14	0.5188093665	0.577218023	-0.0283030315	0.0060647800	-0.343031741
## 15	-0.3686681675	0.815171319	-0.0568113895	-0.0095257470	0.034244037
## 16	0.2778008935	-0.190263164	-0.1201849075	0.0854109200	0.232420284
## 17	0.1002952350	0.776490980	-0.0388770520	0.2313827035	0.194086244
## 18	-0.2663687210	0.598134286	0.0000000000	-0.0058513685	-0.020855322
## 19	-0.1802747550	0.778999464	-0.0315152500	-0.1329644785	-0.036927442
## 20	-0.2130649655	-0.107119426	-0.0311473425	0.1277507240	-0.041726837
## 21	0.2206055620	-0.412178077	-0.1623089130	0.1301246985	0.133936357
## 22	-0.0569747330	-0.426413920	0.0745087830	0.0259661105	-0.244725258
## 23	-0.3749939685	-0.906653684	0.0619017125	0.0620819570	-0.526645038
## 24	0.0062482490	-0.333640857	0.0027264055	-0.0161303035	-0.031251209
## 25	-0.2853861610	0.133653581	0.0094871020	0.0409423465	0.103167808
## 26	-0.5307150945	0.061631087	-0.1553530815	0.0557265520	0.704695287
## 27	0.3834077635	0.016983562	-0.1112702775	-0.1286686920	-0.312092618
## 28	-0.1574913825	-0.257115598	0.0601484305	0.6427845520	-0.155540320
## 29	-0.0801607515	0.417548924	-0.0694704205	-0.3052399150	-0.617166700
## 30	-0.1327731500	0.241115358	-0.0866134610	-0.2411592185	-0.266320106
## 31	0.2337273635	0.095730198	-0.5873733215	-0.6040952420	-0.064583616
## 32	-0.1063636085	0.030042920	-0.2367786595	-0.1290137750	0.520453831
## 33	-0.0298286150	0.581766876	-0.4106477720	-0.2063135445	0.715293334
## 34	0.0657489970	0.105559871	-0.1893147780	-0.3253937865	-0.109177753
## 35	-0.3301305270	-0.587389229	-0.0642947540	-0.0380494565	-0.124720742
## 36	-0.4500265520	0.301252117	-0.0259050250	0.5975191525	0.292071824
## 37	0.0004118535	0.720913965	0.0493840385	-0.1147548950	0.013934452
## 38	0.0022593720	-0.550664616	-0.1143181100	0.0847974625	0.102598619
## 39	0.0767245270	-0.545233684	-0.0732117590	0.1446564315	-0.002982905
## 40	-0.0820681745	0.376055044	0.4348785735	0.5693761050	0.034414098

## 41	0.0850578900	-0.501780276	0.0000000000	0.2578585795	-0.198677038
## 42	0.1085193405	-0.498184986	0.0239782645	0.1368615990	-0.181331046
## 43	-0.0456667270	-0.593794214	0.0818538050	0.1162980915	-0.165722946
## 44	0.0209783075	0.119820424	-0.1975142885	-0.0875615000	-0.127944825
## 45	0.2071466920	0.050386403	-0.4505890880	-0.4066214155	-0.179706216
## 46	-0.1768414725	0.064479948	-0.0621558185	0.0241622180	-0.174764084
## 47	0.0747563370	0.446423171	-0.3618991940	0.1095316665	0.402411274
## 48	0.0502833610	0.015466323	-0.1510098940	-0.1567082345	0.596362333
## 49	0.2565301580	0.016189317	0.2850105630	-0.0266774415	-0.571407202
## 50	0.3417102365	0.064615986	-0.0312700655	-0.0461243910	0.615966714
## 51	0.0199897305	-0.779645529	0.1693773895	-0.1454164740	0.159013425
## 52	0.1671697240	0.441061722	0.2075266480	-0.3019019635	-0.602580169
## 53	-0.1610131390	-0.489324612	-0.0370562240	0.1711889405	-0.001301618
## 54	-0.2377246790	-0.345114704	-0.0480116500	0.2890970265	0.208465271
## 55	-0.1736388850	0.342692295	-0.4642370980	-0.4340524625	0.537925934
## 56	-0.0790969585	-0.402147798	0.0164311935	-0.0574485860	-0.139785313
## 57	0.1918403785	0.338913729	-0.4038086475	0.0496824660	-0.178684972
## 58	0.2566632555	-0.050013639	-0.4175858995	-0.3001769330	0.333078082
## 59	-0.0016006310	-0.211902582	0.0252413890	-0.1719222925	0.229071819
## 60	-0.1027612045	0.277196864	-0.4417303015	-0.3152183710	0.555662904
## 61	-0.2878721305	0.276818002	-0.0017841700	-0.0509111890	0.001951092
## 62	0.2428386655	0.512634949	0.0937016990	0.0810062490	-0.197448720
## 63	-0.1072522260	-0.529926356	-0.0737533455	-0.2514835715	-0.277873754
## 64	0.3725583200	0.237300626	0.4093150925	0.4431582505	-0.393578946
## 65	0.2631582463	0.471245429	0.1097762517	0.1839798448	-0.039131299
## 66	-0.1978979942	0.088498156	-0.1040909068	-0.0571267668	-0.390266411
## 67	-0.1637184880	0.060113911	-0.0962698535	-0.0455064705	-0.129461619
## 68	-0.0469943862	0.024945166	-0.3055431957	-0.1458807937	-0.120508841
## 69	-0.0331634310	0.564678718	0.0909398625	-0.1704089255	0.580519292
## 70	0.0609460837	-0.305670680	0.0662036542	0.1641684563	0.122085500
## 71	0.3771767408	0.178741508	0.1593072252	0.1121008083	0.838596578
## 72	-0.1431452675	0.376374836	0.1042228690	-0.0280508030	0.402457467

## 73	0.4355475308	-0.581208318	0.0805221172	-0.1078014198	0.120977463
## 74	-0.0199883670	-0.467649810	0.0905165420	-0.3565934005	0.249448628
## 75	-0.2499231715	-0.084526797	-0.0695791825	-0.0685706420	-0.406722535
## 76	-0.4059827460	-0.008911870	-0.1093544860	-0.0418949945	0.273119837
## 77	-0.0818960135	0.168028298	0.0199466255	-0.2146163900	0.303912301
## 78	0.3997856270	-0.454984207	0.0377942250	0.1722180105	-0.022295594
## 79	0.0228134695	0.755055643	0.0040303465	-0.1226764750	0.040720624
## 80	-0.0367283595	-0.624123115	-0.0013211820	-0.1155684410	-0.697435058
## 81	0.5476827555	-0.174224497	-0.4672508490	-0.0985768735	-0.131622940
## 82	-0.0266362915	0.021490710	0.5715092940	0.4705086425	-0.402273300
## 83	0.0451682365	0.291878837	0.0405085180	-0.1030692720	0.056574882
## 84	0.1723853908	-0.440412246	0.0538459513	0.2706201413	0.064749126
## 85	0.2734519672	-0.649239593	0.0628028417	-0.0302733212	-0.085196338
## 86	-0.2992161165	-0.745572901	-0.0221057775	-0.5468760700	-0.732672406
## 87	-0.2259291312	0.604158735	1.0550502432	0.2373039782	-0.305174307
## 88	-0.2415173090	0.026904566	-0.0294838620	-0.0490376035	-0.251856965
## 89	-0.2095008590	0.015970549	-0.1487981360	-0.3178917745	-0.026329241
## 90	0.0336952128	0.598469955	-0.0327481107	-0.0643820957	-0.219234084
## 91	0.1871155315	-0.474841428	-0.0260505315	0.5919006310	-0.039996547
## 92	0.2188728015	-0.227997663	-0.0368881035	-0.0814944790	0.001944926
## 93	-0.0990006465	0.002227530	0.1398236255	-0.0700772510	-0.141487268
## 94	0.0021969642	0.259114264	0.2127080128	0.0659018048	-0.550579648
## 95	0.1843937020	0.250748515	0.0002697915	-0.1619565085	0.204488321
## 96	0.1669369410	-0.042048827	-0.1587928100	0.1996692335	0.597456833
## 97	-0.3643312987	-0.202311707	-0.0228685093	-0.0568021183	0.082060808
## 98	-0.1350832835	0.696676260	-0.1978027915	-0.5664835370	0.071157665
## 99	-0.0753499020	0.001476031	-0.0331906090	-0.0896624565	-0.108812063
## 100	-0.0688234080	-0.823658616	-0.0264503180	-0.3907988845	0.215268956
## 101	-0.3896764477	0.152609633	-0.0288594313	-0.0390846203	-0.184508566
## 102	-0.1712993137	0.313197318	-0.0279526012	-0.0817923972	-0.270715178
## 103	-0.5501872825	0.326779439	-0.0462367665	-0.1864675150	-0.112432240
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105 -0.1704543155 -0.589827432 -0.1510325405 -0.5191554390 -0.159612423
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## 137	0.2592071647	0.127368171	0.0286193003	0.1145339582	0.448546742
## 138	-0.3633963760	0.536378267	-0.0781279665	0.1636880165	-0.261945850
## 139	0.0768365400	-0.291297845	-0.0916661225	0.0594408225	0.067785043
## 140	0.0120729178	-0.166238466	-0.0705385577	-0.0132404037	-0.096127654
## 141	-0.1971404025	-0.266755000	-0.0170332340	0.3771189910	-0.540742345
## 142	0.0749840618	-0.222722806	-0.0351683177	-0.0511244677	-0.043448367
## 143	0.3820972062	-0.245251772	-0.0253335953	-0.2028643313	-0.376327444
## 144	0.0002156725	0.007558803	0.0356402940	-0.1773192350	-0.250683212
## 145	0.0476859510	-0.272221223	-0.0332541145	0.0267943355	-0.039402785
## 146	-0.0423537940	0.330727568	0.0000000000	0.2007900485	0.101781802
## 147	-0.0257806515	-0.517595905	-0.0676164815	0.2439124450	0.270268383
## 148	0.1346076765	0.339958218	0.0076718320	-0.0701016540	-0.308901545
## 149	0.3540142270	0.624277668	0.0363452545	0.1229348655	0.139662096
## 150	-0.6151921458	-0.197861248	-0.0722134553	-0.0152165452	-0.205586430
## 151	-0.0329058190	0.361040454	0.0879855305	0.0214053395	0.046037418
## 152	-0.1956236180	-0.125648830	0.0663971735	0.0458259075	0.351851778
## 153	0.0211578145	-0.518711584	0.0541252370	0.0131647630	-0.165671355
## 154	0.3196864382	-0.008462572	0.1115244067	0.1376164797	-0.370251324
## 155	0.1790025642	0.623266938	-0.0781390222	0.0530409307	-0.159838830
## 156	0.0525088125	-0.196242125	-0.2552017875	-0.1679756330	0.326872312
##	pp_p38.pT180.Y182	pp_p62.LCK.ligand	pp_p70S6K	pp_p70S6K.pT389	
## 1	0.449227635	-0.691766355	-0.33786329	-0.178502932	
## 2	1.035114857	0.279066987	0.29292532	-0.155241958	
## 3	0.344968936	0.219909595	0.30810973	-0.190794317	
## 4	0.678041668	-0.266553609	-0.07987070	-0.463237239	
## 5	0.920407979	-0.441541641	-0.15231735	0.511386491	
## 6	-0.669933719	0.274994774	-0.07727569	-0.117310321	
## 7	-0.218775649	-0.711631017	-0.51696006	0.251031279	
## 8	0.353763829	0.573339793	-0.09337942	-0.048553510	
## 9	-0.544790256	-0.480589577	-0.21781018	-0.156723380	
## 10	0.108749862	0.021280778	0.15259129	-0.327824587	
## 11	0.471528320	0.520752936	0.01500806	-0.193345351	

## 12	0.416792497	-0.677066449	-0.06271774	0.186294701
## 13	0.477514932	-0.472941722	-0.55850504	-0.233468428
## 14	-0.084773772	-1.504806133	-0.07840515	-0.191461442
## 15	-0.350194401	0.364674406	0.09348820	-0.344940847
## 16	0.306251204	-0.545810505	0.03026205	-0.090262345
## 17	-0.445128937	1.058320767	0.60552671	-0.280063197
## 18	0.334846289	1.817001247	0.19807559	-0.204888314
## 19	-0.172124667	-0.893376403	-0.57070027	-0.141489509
## 20	0.263963008	0.995924524	-0.09212883	-0.239914479
## 21	0.676347224	0.568959564	0.81794291	-0.347467258
## 22	0.131512162	0.861811716	-0.69169243	-0.260327885
## 23	0.368790297	-0.292280302	-0.64496136	-0.103245804
## 24	0.212929070	0.228629446	-0.15821210	-0.204072811
## 25	0.627218252	-0.284402545	-0.19287649	-0.142689751
## 26	0.011002107	1.965303032	-0.00139724	-0.108310197
## 27	0.682405511	-0.209216704	-0.06260729	-0.260900460
## 28	0.067230424	0.071992266	0.24029427	-0.212991455
## 29	0.507027327	-1.349741664	-1.20561693	1.048413433
## 30	-0.247619360	-0.561917323	-0.73321795	-0.318029102
## 31	0.205991174	-0.261930417	-1.21938686	0.993459127
## 32	1.361028826	2.212031285	0.40459805	-0.058688136
## 33	0.526040902	-1.428990181	-0.26107727	0.129894806
## 34	0.776276323	-0.905400833	-0.45317381	-0.116608776
## 35	1.136707203	-0.048002162	-0.26104480	-0.236906197
## 36	0.958813959	-0.336535268	-0.22986892	0.226132136
## 37	-0.460204589	0.511307208	0.50638865	0.028647532
## 38	-0.154813863	1.091390596	-0.06752674	-0.308567024
## 39	-0.186186840	1.258780729	-0.08853658	-0.244025595
## 40	0.162424865	-0.247806977	-0.16693345	-0.196730921
## 41	0.842606042	0.326932122	0.47276833	-0.182218649
## 42	0.398844225	-0.296888254	0.20641071	-0.125202234
## 43	0.691922612	-0.181717702	-0.45529661	-0.268588903

## 44	0.732908535	-0.873534905	-0.62271923	0.170443921
## 45	0.328527112	0.036891276	-0.51876749	-0.476750241
## 46	0.454199289	-0.144822894	0.02253071	-0.312416480
## 47	0.734915538	-0.465780990	-0.21222056	-0.474839425
## 48	0.060799373	-0.428306676	0.12296724	-0.027715443
## 49	0.248216417	-0.872773253	-0.77023584	0.617074495
## 50	1.754936183	-0.442910153	-0.10887023	-0.040296888
## 51	1.445944904	1.854852900	-0.04303367	-0.084848583
## 52	-0.023539104	-2.012390868	-1.37059843	0.474251620
## 53	0.584671695	0.839143065	2.13533050	-0.005460944
## 54	0.012011621	1.389186184	0.33526087	-0.163267116
## 55	0.421233880	-1.243642313	-0.03946937	-0.398093824
## 56	0.402754891	-0.592737181	-0.32786908	-0.105986326
## 57	0.382983158	-1.114404372	-1.14764822	0.336186174
## 58	0.712725494	-0.360922046	0.32808924	-0.357202668
## 59	0.306643055	-0.514170469	0.11013366	0.400132389
## 60	-0.569563910	0.664888348	0.19314871	-0.297818193
## 61	-0.358238377	0.085891933	-0.07376677	0.188676110
## 62	-0.179880285	-0.005234441	1.77041250	-0.122077571
## 63	-0.708840966	0.509247419	0.15671484	-0.203219251
## 64	-0.047092334	-0.386988769	-0.55869223	0.105421778
## 65	0.354670455	-0.294768001	-0.50149664	1.024442322
## 66	0.837903345	-0.731286936	-0.04234342	-0.422001368
## 67	-0.005243889	-0.328412233	-0.54571931	-0.092291289
## 68	0.843136852	0.083196799	-0.59113275	0.509742830
## 69	0.713465548	-0.184257855	-0.73767747	-0.227804021
## 70	0.292895068	0.691398032	1.41756799	-0.250099584
## 71	-1.566497455	-0.613055276	-0.43658622	-0.304026549
## 72	-0.191382026	-0.099506932	-0.05879351	0.001624785
## 73	0.051098970	-0.305885428	0.28614869	-0.294618206
## 74	-0.001760081	1.755405378	0.29384391	0.098537047
## 75	0.211669688	-0.791932999	-0.32353994	-0.023005550

## 76	-0.028478604	0.960951291	0.31398206	0.200833098
## 77	-0.392261240	-0.522750893	-0.31719366	0.210786220
## 78	-0.008012393	-0.581509989	-0.02933903	0.055626233
## 79	0.096095229	-0.034026495	-0.19282509	-0.125748675
## 80	-1.102312336	-0.716278074	-0.63534317	-0.042722220
## 81	-0.009358160	1.784635498	0.50843288	0.362959596
## 82	-0.034314910	1.128352800	-0.14784982	-0.293323102
## 83	-0.665816657	-0.556773329	-0.55780977	0.648623367
## 84	0.123042958	1.723699855	0.25309570	-0.177376725
## 85	0.243088805	-0.087622342	0.02052525	-0.236445842
## 86	-1.073825149	0.488229078	-0.26525285	0.256434027
## 87	-0.406440077	-0.472139054	-0.55200811	0.712366055
## 88	0.152502933	0.899538840	0.87069083	0.418376750
## 89	0.264506673	0.504977472	0.10110013	0.530781213
## 90	-0.008498232	0.840391244	0.58973472	-0.079572671
## 91	-0.910479074	-0.266213011	0.10342642	0.091476952
## 92	-0.037507723	-0.356456929	0.49106244	0.611554251
## 93	-0.498350770	0.771162672	-0.01008978	0.105566433
## 94	-0.081958873	-0.513605080	-0.88804552	1.022993671
## 95	0.072581672	-0.178178937	-0.28762825	0.448691927
## 96	-0.209540859	0.146396801	0.76497268	0.007854508
## 97	0.650368498	0.280745988	0.05403746	0.096437806
## 98	0.203710916	2.620912197	1.14722395	0.099598088
## 99	-0.290352219	-0.589948768	0.14169141	-0.219509597
## 100	0.362831994	1.166141948	-0.28223472	0.109394106
## 101	0.014677485	0.765782118	0.37785040	0.041874424
## 102	-0.460733854	-0.795036536	-0.15992764	0.049489522
## 103	0.789293953	1.009416948	-0.08054578	-0.076457824
## 104	0.035528640	-1.242879529	-0.36885049	-0.092983992
## 105	-0.076670479	0.057923668	1.41231608	0.015535310
## 106	-0.207058813	0.696502928	0.28799128	-0.181932301
## 107	-0.390193653	-0.182598679	0.06083455	-0.132471375

## 108	-0.029593657	1.642213839	0.39347982	0.684033199
## 109	0.032996188	1.047354947	-0.15041927	0.385086455
## 110	-0.830819238	2.512639334	2.07530289	0.565803661
## 111	-0.098159861	-0.775893993	0.07790426	-0.116219515
## 112	0.435805705	-0.453860826	-0.43531375	0.531402822
## 113	0.531346908	0.916269084	-0.16617949	0.152428308
## 114	-0.255508611	-0.336505931	-0.23028474	-0.087018564
## 115	0.614256654	-0.365667260	-0.22359680	0.364465041
## 116	0.378658339	-0.492338814	0.21295102	0.423159366
## 117	0.172467488	-0.395364546	-0.18093034	0.792446920
## 118	1.072857304	-0.492557317	-0.53315426	0.104882045
## 119	0.479872858	-1.420610826	-1.42131999	0.575924929
## 120	-0.084532779	0.562407190	0.23863244	-0.041623454
## 121	0.015371105	-0.228876777	0.45726345	-0.107614434
## 122	0.077820580	-0.476747444	-0.21710605	0.947073138
## 123	-0.084250473	1.105245874	0.02781639	-0.113054481
## 124	-0.139544926	-0.531070278	1.41857373	0.265826174
## 125	-0.189026262	1.018707071	1.50332850	-0.207273370
## 126	-0.381142233	0.326722077	0.51308590	0.236202939
## 127	-0.821891783	1.561008499	0.80691946	-0.248591704
## 128	-0.178123849	1.735209224	1.08665980	0.138603189
## 129	0.217104087	-0.135473701	0.81983547	0.283015976
## 130	-0.011108951	0.543754987	0.03765224	0.329289624
## 131	-0.395588585	0.572781356	0.07692694	-0.144823394
## 132	0.039631504	-0.830487659	-0.01323646	0.159135773
## 133	0.133895949	1.591010686	0.28025307	0.225386929
## 134	-0.397355593	1.446853190	0.20805901	0.319799637
## 135	-0.301931787	-0.531642068	-0.18713552	-0.008051324
## 136	0.148656037	1.573602375	0.34088568	-0.060019894
## 137	-0.394471440	-0.277117831	0.66706553	-0.292209353
## 138	0.429531332	-0.080247288	0.39368672	-0.236719466
## 139	-0.847131511	0.924915133	0.63752808	-0.271233844

## 140	-1.189772254	0.265542484	-0.14167744	-0.264726861
## 141	-1.210451054	1.446622916	-0.25620753	-0.178104582
## 142	0.696512891	0.809617483	0.34150798	-0.187463779
## 143	0.029795660	-0.271261904	-0.41426059	-0.195451492
## 144	0.192599644	0.098445015	-0.39405921	-0.164610923
## 145	0.112263276	0.287365834	-0.18078089	-0.098855833
## 146	-1.057894979	-0.071505534	2.21253818	-0.211776495
## 147	0.427434888	0.078640984	0.03673634	-0.247593426
## 148	-0.546798676	0.067862437	-0.27427510	-0.114037584
## 149	-0.065712441	-0.117714068	-0.23148246	-0.066671652
## 150	-0.218381351	-0.475156066	-0.59713186	-0.071975147
## 151	0.719843658	-0.447849475	-0.25707826	-0.162807878
## 152	0.962193208	-0.762263506	0.36102366	-0.023555353
## 153	0.435765519	1.028401250	0.05568229	-0.011147624
## 154	-0.274256705	-0.638430842	-0.37425197	0.088076917
## 155	0.160072077	-0.998717085	-0.14207556	0.077615350
## 156	-0.561664561	-0.292721576	-0.80088211	0.032766367

pp_p90RSK pp_p90RSK.pT359.S363

## 1	0.0116379730	-0.207256814
## 2	-0.0893652800	0.267529559
## 3	-0.2221495655	-0.198518362
## 4	0.5229981437	-0.046902282
## 5	-0.0964824650	0.037472796
## 6	0.2841947205	-0.048473903
## 7	0.0157851605	0.677039869
## 8	0.2360462620	-0.101639752
## 9	-0.2322585540	-0.102919278
## 10	-0.1383301957	-0.408919050
## 11	0.1004060395	-0.342924312
## 12	0.0784902100	-0.099270723
## 13	0.0439860135	-0.095381039
## 14	-0.0564153275	-0.419000904

## 15	0.3948969325	-0.171594534
## 16	0.1652951775	0.241038135
## 17	-0.4872454980	-0.383343445
## 18	0.1086049510	0.024335570
## 19	0.2015112400	-0.383346376
## 20	-0.2096092055	-0.046568946
## 21	-0.0253699590	0.016025792
## 22	0.0095175220	-0.503475612
## 23	-0.0118123585	-0.084312474
## 24	-0.0198051105	0.019019576
## 25	0.3603607900	-0.116649522
## 26	0.0178296685	0.022336420
## 27	0.1261199625	0.001205244
## 28	-0.0290260725	-0.012362142
## 29	-0.1244083035	0.186107804
## 30	0.1867632890	-0.040532603
## 31	-0.4904454505	-0.382860011
## 32	-0.1778455505	-0.147140260
## 33	-0.0529499600	-0.319905909
## 34	0.0197588860	-0.273416346
## 35	0.1913334620	0.113676963
## 36	-0.1790143870	-0.167956254
## 37	-0.1017651985	-0.198683988
## 38	0.1935836670	-0.319663045
## 39	0.2182114610	-0.297074086
## 40	-0.2554833675	-0.176418659
## 41	-0.3101871400	0.065597786
## 42	0.0484315265	-0.114711658
## 43	0.3849636200	0.273273874
## 44	-0.3254708575	-0.119512267
## 45	-0.4743804870	-0.389226115
## 46	0.4209307775	-0.140709560

## 47	-0.4676939440	-0.313979236
## 48	0.0000000000	-0.337024752
## 49	-0.1431990880	0.095295483
## 50	0.2634490445	0.868294438
## 51	0.0359157045	-0.094522259
## 52	-0.2035578580	0.000000000
## 53	-0.1301094280	0.185892320
## 54	-0.0677886440	-0.189475827
## 55	-0.2542863490	0.019909171
## 56	0.5394502155	-0.074147547
## 57	0.1650309345	-0.188891973
## 58	-0.1385969165	-0.203596915
## 59	0.2076435640	0.233937691
## 60	0.0697194385	-0.687651179
## 61	0.0642172880	-0.012830825
## 62	-0.1401142730	-0.199403131
## 63	-0.3192497875	-0.384659009
## 64	-0.2814309845	0.596690393
## 65	-0.8037255623	-0.021200068
## 66	0.2563178193	-0.209581997
## 67	0.1790902765	0.044188433
## 68	-0.0693184888	-0.075796190
## 69	-0.1834191895	-0.017847293
## 70	-0.0737854558	-0.007863347
## 71	-0.0963615897	-0.388227547
## 72	-0.9072259210	-0.082992268
## 73	-0.4209938778	-0.105211369
## 74	0.1915334400	0.608871008
## 75	0.1033244495	0.828992471
## 76	0.1833930620	0.245429412
## 77	-0.2716287425	-0.013014678
## 78	-0.1852069990	0.103983087

## 79	-0.2477154015	0.094274560
## 80	0.3662937740	0.133268857
## 81	0.5067726940	-0.071593270
## 82	-0.1495100040	-0.033820383
## 83	-0.0679357470	0.181444958
## 84	0.0898581362	-0.033439172
## 85	0.5692855248	0.237910523
## 86	-0.0029945135	-0.127561425
## 87	-0.1859348758	0.196497376
## 88	-0.2740562390	0.254587392
## 89	-0.2549568780	0.340575162
## 90	0.7445018402	-0.045609598
## 91	-0.2532901715	-0.087872817
## 92	-0.3840437505	-0.057328386
## 93	-0.5349093765	0.025531987
## 94	-0.5299069662	0.272743594
## 95	-0.2303389955	-0.234988648
## 96	0.2211871220	0.202436636
## 97	0.0114214707	-0.246649024
## 98	-0.3685695715	0.149865216
## 99	-0.0832479430	0.094831547
## 100	0.3629589300	0.478365283
## 101	0.0409658507	-0.258460623
## 102	0.4279547638	0.510564622
## 103	0.5037599695	0.611915811
## 104	-0.3942404150	-0.090194117
## 105	-0.0058947715	0.127953934
## 106	0.0185342268	-0.145447816
## 107	0.2626923380	0.400822571
## 108	0.2610754365	-0.113562231
## 109	-0.0202230170	0.140788256
## 110	-0.1220207060	0.050913639

## 111	0.0493038665	0.424266084
## 112	-0.2889901265	0.241316854
## 113	-0.2381251045	-0.093736174
## 114	-0.1995625365	0.332511946
## 115	-0.1397797495	0.306749895
## 116	-0.0196637927	-0.022062685
## 117	0.0055302178	0.246166586
## 118	0.5934681680	0.084707507
## 119	-0.1927139220	0.016793897
## 120	-0.1769760475	-0.281999972
## 121	-0.2690491162	-0.284175057
## 122	0.2726098585	0.476691201
## 123	-0.1990453895	0.268126723
## 124	0.2539838780	-0.107734131
## 125	-0.5036650920	-0.252734685
## 126	-0.5913201155	0.059770683
## 127	-0.1031508360	0.122939798
## 128	0.1633746145	0.045126220
## 129	-0.4380307995	0.180518804
## 130	0.2720356195	-0.051585476
## 131	0.1977683005	-0.215431609
## 132	-0.1203779900	-0.035212254
## 133	-0.0680517085	-0.109402876
## 134	0.5592097778	-0.196076736
## 135	0.0306137633	0.005199930
## 136	0.0004484447	-0.127944221
## 137	-0.0255305138	-0.271648100
## 138	-0.3477282345	-0.205933774
## 139	-0.2304684645	-0.319288415
## 140	-0.0225800248	-0.390152059
## 141	0.7193195960	-0.028474969
## 142	0.0426634023	-0.158302835

```
## 143 -0.2747444622      -0.200035169
## 144  0.0091802080      -0.027827369
## 145 -0.2258909425      0.096487858
## 146 -0.1803571830      -0.615772071
## 147  0.5503879525      0.646075314
## 148  0.1550359260      -0.241696632
## 149 -0.0476187625      -0.072438049
## 150  0.4483232397      0.221834906
## 151 -0.1867825915      -0.041029279
## 152 -0.1114162115      -0.131205910
## 153  0.0428394930      0.016108462
## 154 -0.2891546453      0.320363137
## 155 -0.2428999873      0.029020596
## 156 -0.5148238305      -0.168450000
## [ reached 'max' / getOption("max.print") -- omitted 351 rows ]
```

Modeling with KNN (predict PR.Status)

Split the data:

```
## 75% of the sample size
smp_size <- floor(0.75 * nrow(non_categorical_brca))

## set the seed to make your partition reproducible
set.seed(123)

train_ind <- sample(seq_len(nrow(non_categorical_brca)), size = smp_size)

brca_train <- as.matrix(non_categorical_brca[train_ind, ])
brca_test  <- as.matrix(non_categorical_brca[-train_ind, ])

train_y = as.matrix(predictors$PR.Status[train_ind])
```

```
brca_train_1 = as.matrix(cbind(brca_train, train_y))
```

```
{r} # library(kknn) # # control <- trainControl(method =  
"cv", number = 10) # knn.cvfit <- train(y ~ ., method = "knn",  
# data = data.frame("x" = brca_train_1,  
"y" = as.factor(predictors$PR.Status[train_ind])), #  
= data.frame(k = seq(1, 40, 1)), # trControl  
= control) #
```

```
{r} # plot(knn.cvfit$results$k, 1-knn.cvfit$results$Accuracy,  
# xlab = "K", ylab = "Classification Error", type =  
"b", # pch = 19, col = "darkorange") #
```

```
{r} # which.min(1-knn.cvfit$results$Accuracy) #
```

The best k is 10

```
library(caret)  
library(class)  
train_y = as.matrix(predictors$PR.Status[train_ind])  
# brca_train = cbind(brca_train, train_y)  
  
y = as.matrix(predictors$PR.Status[train_ind])  
  
pred = knn.fit = knn(train = brca_train, test = brca_test, cl = y, k = 10)  
  
cmat = table(pred, as.factor(predictors$PR.Status[-train_ind]))
```

```
cmat
```

```
##
```

```
## pred      Negative Positive
```

```
##   Negative      23        3
```

```
##   Positive      20       81
```

Accuracy:

```
(81 + 23)/sum(cmat)
```

```
## [1] 0.8188976
```

Modeling with Lasso (predict PR.Status)

```
suppressMessages(library(glmnet))
```

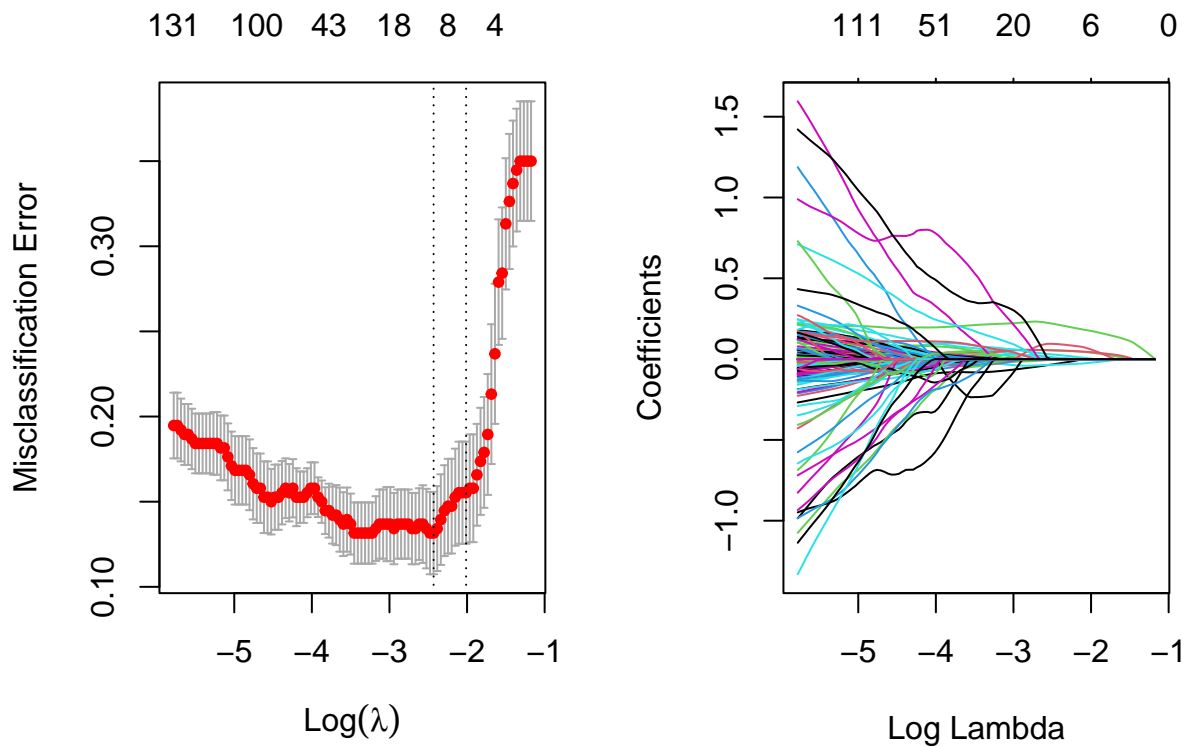
```
set.seed(1)
```

```
lasso.fit = cv.glmnet(brca_train, train_y, nfolds = 10, alpha = 1, type.measure = "class", fam
```

```
par(mfrow = c(1, 2))
```

```
  plot(lasso.fit)
```

```
  plot(lasso.fit$glmnet.fit, "lambda")
```



```
# {r} # coef(lasso.fit, s = "lambda.min") #
```

```
{r} # coef(lasso.fit, s = "lambda.1se") #
```

Predict on the test data:

```
best_lambda = lasso.fit$lambda.min
test_predict = predict(lasso.fit, brca_test, s = best_lambda, type = "class")
# test_predict
# length(test_predict)
# length(predictors$PR.Status[-train_ind])
cmat_1 = table(predictors$PR.Status[-train_ind], test_predict)
cmat_1
```

```
##          test_predict
##          Negative Positive
```



```
## Negative      25      18
## Positive       5      79
```

Accuracy:

```
(25 + 79)/sum(cmat_1)
```

```
## [1] 0.8188976
```