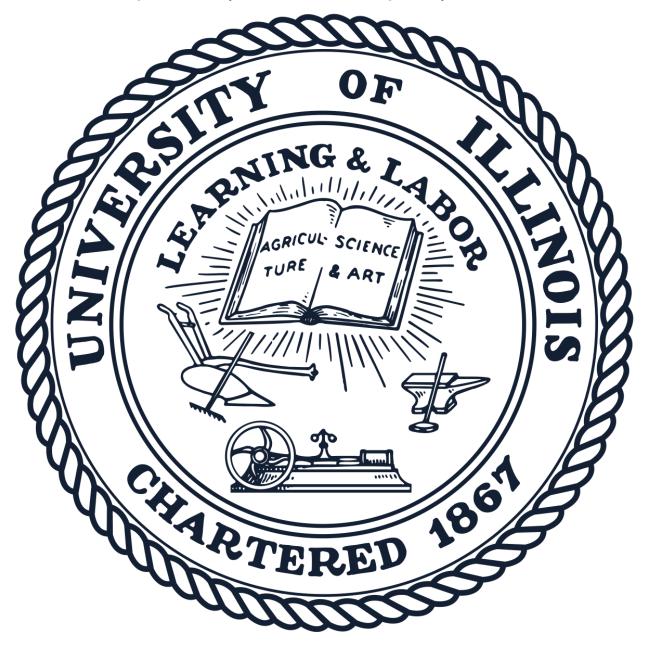
Final Project Document

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#Todo: shrink to height, add TOC. {#id .class width=30%, height=30%}



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 evalution 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)
```

7

```
##
## 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/cleaned_brc
# 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_MUCL1
                                                                        rs_GSTM1
                                                    rs_TFF1
## 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
     0.0000000 18.2355185
                           18.535480
                                       14.533584 14.0789925
                                                             8.913760 10.5574647
## 4
## 5
     0.0000000
                4.5837237
                            15.711865
                                       12.804521
                                                  8.8816692
                                                             8.430028 12.9646066
     0.6028369
                             9.248794
                                                  0.0000000
                                                             6.085525
## 6
                1.0266584
                                        5.095713
                                                                       7.7737478
## 7
     5.6543124
                2.8420737
                             8.231955
                                        7.062477
                                                  7.2857055
                                                             8.490481
                                                                       0.0000000
                                                             2.788999
## 8
     2.3709454 0.4304994
                             0.000000
                                        2.635987
                                                  0.7617108
                                                                       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
     13.304434 8.205059 9.211476 0.0000000 4.3479916
## 4
                                                           7.836265
                                                                       9.732374
## 5
      6.806517
                4.294341
                           5.385714 0.8418926 6.1115697
                                                           7.701901
                                                                      10.759198
     11.080776 6.916635 7.935318 8.6711483 5.8463755
## 6
                                                           4.665484
                                                                       0.000000
```

2.390172

4.593306

6.823051 5.907011 6.793263 6.2878176 2.7623063

```
## 8
       2.552943 7.388579 6.464041 0.4304994 1.6259250
                                                            1.453491
                                                                        0.000000
## 9
                 1.027933
                           0.000000 0.0000000 1.8470749
       1.622087
                                                            1.847075
                                                                        0.000000
       0.000000
                                                           10.320869
##
                 9.300252
                           9.766249 0.0000000 0.8598106
                                                                        10.693062
##
                                          rs_AGR3 rs_TFAP2B rs_CYP4Z1
       rs PRAME
                   rs_TAT rs_SERPINA6
                                                                        rs DHRS2
##
  1
       9.363258
                 2.146395
                            1.4402081 12.8062722 11.675896
                                                             2.618427
                                                                        8.3757172
## 2
                2.415164
                            0.0000000 9.7985024 11.575206
                                                             3.039682 11.5046951
       1.818891
                            6.7910248 7.7283654 8.290137
       4.733674 16.173177
                                                             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
                                                   5.713278
                                                             0.000000
## 8
      11.821034
                 1.625925
                            0.0000000
                                        0.4304994
                                                                       0.4304994
## 9
       8.118521
                 2.366364
                            0.0000000 0.0000000
                                                   0.000000
                                                             5.545975
                                                                       5.6541233
       1.945570
                            1.6026944 11.8005372 9.364972
                                                             5.052494
                                                                       9.0145637
## 10
                1.394898
       rs_KCNJ3 rs_MYBPC1 rs_C4orf7
                                                   rs_MUC6 rs_UGT2B11
##
                                      rs_KRT14
                                                                       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
                                                 5.4382962
                 5.464894
                           2.442997
                                     9.6514597
## 4
      4.3762904
                                                             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
                 9.744704 16.707036 11.4526397
      2.1605653
                                                 8.1579148
                                                             0.470615 12.992628
## 8
      0.4304994
                 5.146729
                           7.101317 10.8453526
                                                 1.4534912
                                                             0.000000 14.301986
      0.0000000
                 6.293015
                                      9.3726564
## 9
                           2.366364
                                                 0.0000000
                                                             0.000000 13.610573
                           2.090616
## 10 5.9941701
                1.784295
                                     0.4930324
                                                8.5617034
                                                             0.000000 6.643882
       rs SOX10 rs SLC30A8 rs STAC2 rs VSTM2A rs COL2A1
                                                            rs KRT5 rs TUSC5
                 8.7901337 10.540809
                                      7.265341
                                                7.131664 12.639518 7.305826
##
  1
       8.279545
                            9.061837
                                      0.000000
##
  2
       8.374239
                 0.7843365
                                                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
                                       0.000000 10.509098 13.287832 4.997672
      12.670116
                 2.8598106 11.761590
      12.935384
                 0.0000000
                            8.669900
                                       0.000000 4.753679 11.600758 0.000000
##
  9
       1.394898
##
                            1.394898
                                      3.894575 12.455744 2.558023 7.357253
  10
                 6.0484629
##
      rs CEACAM5
                  rs CALML5
                                rs GP2
                                         rs GSTT1
                                                      rs LEP
                                                               rs FABP7 rs Clorf64
## 1
                  5.1750894 10.4901429
                                        0.5144000
                                                    4.514034
                                                              2.7157177 11.5537498
       2.8926047
## 2
       5.2139421
                  4.5026616
                             7.7075241
                                         9.3362381
                                                    0.000000
                                                              4.9863199 8.3328234
                  9.8595803
                             4.0324095
                                        3.9322596 10.124532
## 3
       8.5725039
                                                              3.7868995 7.3459170
      15.6571121
                  6.6061402
                             7.3068583 10.2633142
                                                    1.774249
                                                              2.0797706 10.8747911
       4.7837290
                  6.3474513
                             7.7317867
                                        9.0931968
                                                    1.130008
                                                              0.4815056 10.7710224
## 5
## 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
                  7.7345443
                             0.0000000
                                                    2.504849 10.1427418 0.0000000
       0.6035967
                                        0.0000000
##
  10
       5.2036906
                  0.4930324
                             4.2730459
                                        9.4912118
                                                    6.552909
                                                              0.8598106 10.6410080
##
       rs_CRABP1
                  rs FABP4
                             rs_KRT6B
                                      {\tt 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
                                                  3.1179942
       2.3287790 11.459524
                            9.4177359
                                        2.697551
                                                             9.113967
                                                                       6.022692
## 4
       3.1808798
                  7.364504
                            5.9045010
                                        1.144242
                                                  2.8981890
                                                             6.086809
                                                                       7.118659
## 5
                  6.144263
                            7.0631340
                                        2.620727
                                                  7.0372581
                                                             9.903603 7.213202
       4.3514587
## 6
      10.1724379 7.998128 8.8967029 6.731869
                                                 0.0000000 8.687575 10.289464
```

```
5.8598876 6.487041 8.0736864 4.746248 0.0000000 3.737784 10.634014
     14.7092297 7.475712 6.9143373 2.927328 0.0000000 7.455847 2.370945
     12.4853796 3.371824 11.9314477 0.000000 0.0000000 6.438383 2.504849
     0.8598106 11.247954 0.4930324 0.000000 10.6006968 11.295498 1.784295
      rs CIDEC rs SYT13
                          rs KLK5 rs OLFM4 rs HOXB13
                                                        rs LTF
                                                                rs TFF3
     7.8003376 4.146305 7.760989 6.189267 2.5140970 10.219641 13.849524
## 1
     0.4448791 3.949171
                         8.111446
                                  5.626279 0.0000000 11.232154 11.589648
     9.3096173 10.090086
                         8.306898 2.697551 0.4497462 7.810588 10.077443
     4.6087442 12.634136
                         4.909144 2.211293 0.0000000 12.975535 16.420502
                         5.257105 4.485079 3.9319761 8.387990 10.316920
     1.2811344 7.473329
     5.6957127
                6.745880 9.221477 10.150221 1.3538878 14.484815
                                                               5.461064
     3.4629684 2.160565
                         6.064943 5.770985 4.4980338 17.796624
## 7
                                                                8.282862
## 8
     4.8314263 5.934474 7.481338
                                  1.919111 9.1252063 7.193312
                                                               1.453491
    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_BMPR1B 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
      6.883319 8.187072 8.5430956 2.851719
                                             6.640468 2.8517191 4.5202902
     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
      7.319344 3.633524 8.9231486 6.427308 11.294559 8.4642533
                                                                 7.1293253
     10.824312 6.731774
                         6.2222617 3.651867 11.895029 5.0106859
                                                                 4.6161753
                9.294545
                         0.4304994 0.000000
                                             8.567333 0.4304994
## 8
     12.815764
                                                                 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
                         0.8928184 11.670787
## 1
     14.534077 11.120876
                                             9.155700
                                                         7.8440309 8.3663834
                                             5.971707
     11.003313 13.253582 2.5983890 11.270201
                                                         9.4627247 9.1405693
     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
                         1.1090262 10.909795 5.189038
## 7
      8.422379
               5.503037
                                                         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
##
     3.4959126
               2.806881 5.1049866 4.592983 9.228598
                                                     6.860970 3.920036
## 1
     0.4448791 3.101684 4.7742125 4.735620 12.110205
                                                     8.371095
                                                              5.493795
     1.3005338 1.300534 5.8504669 8.669012 9.729484
                                                     7.662167
     5.2420804 1.575796 5.3299667 8.349955 11.951210 10.342679
## 5
                                                              3.393512
     5.9708997 3.856538 0.6028369 0.000000 7.436288 12.797616
## 6
                                                              1.353888
     5.5393791 2.279917 0.4706150 7.033041 10.933886 10.678147
     1.7799321 10.670165 0.0000000 5.604062 11.848774 11.863524
                                                               0.000000
     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_ELF5 rs_GFRA1 rs_CYP2A6
                                              {\tt rs\_PGR}
                                                        rs_CGA
                                                                {\tt rs\_GPD1}
## 1
     0.5144000 9.116151 14.487078 2.5140970 12.787348 0.0000000
                                                               8.897714
     6.2501980 5.921013 8.041977 0.0000000 12.176893 0.0000000
                                                               1.488412
    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
```

```
9.5734429 12.356237 7.328684 0.6028369 4.509962 1.0266584 6.181437
     1.5500634 10.944653 9.465836 0.4706150 6.972303 0.0000000
                                                                  5.027844
     1.7799321 12.492772 10.372347 0.4304994
                                             4.116331 0.4304994
                                                                  6.189453
     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
      1.6516832 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
      10.9127900 6.591495 10.599596 0.0000000
                                               2.952837 7.018264
## 6
                                                                  4.8058599
##
  7
      6.8666125
                5.234084 10.771184 3.1856604
                                               7.973205 6.192139
                                                                  9.3707101
                 6.382206 6.286606 0.7617108 10.950750 4.116331
## 8
      11.6096657
                                                                  0.7617108
     13.2890179
                1.622087 0.000000 0.0000000
                                              5.937052 4.512290
## 9
                                                                  2.3663642
      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
       2.973519 4.992999
                         7.007468
                                   7.3966544
                                              1.999567
                                                        9.058201 6.1375322
## 1
       2.907025 4.407659
                         6.243338
                                   7.5130153
                                              6.865038 8.748358 0.4448791
## 2
## 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
       1.130008 1.130008
                         3.446905
                                   4.2348692 10.063846
                                                        7.710113 0.4815056
                         9.284030
                                   4.9580538
                                             0.000000 5.095713 3.0463863
## 6
     11.472573 4.832363
                                              2.030407
## 7
      5.878924 7.534050
                         5.277765
                                   4.8268739
                                                        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
     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
                             3.803930 3.6335242
                                                  0.0000000 10.054956 6.659692
## 6
      2.364404
                   1.026658
## 7
       4.396022
                   4.939946 11.111356 10.5291064
                                                  2.9894660 10.532867 5.801231
## 8
                   1.779932 3.756863 9.3245874
                                                  0.0000000 11.115600 1.257554
      2.714531
## 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 MSLN
                            rs A2ML1 rs NLRP2 rs COL17A1 rs SLC6A14 rs PROL1
##
       rs KLK10
## 1
                           2.1463945 10.448731
                                               11.082059
                                                            3.835975 7.2378438
      9.488997
               2.7157177
                6.6379971
                           1.2895984 10.780614
      5.516737
                                                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
       5.297404 0.0000000 6.991786 0.0000000 10.623148 2.8179097 9.272980
## 4
```

```
## 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
      10.303765 0.4930324 12.598863 1.4367482 5.592759 0.0000000 6.577735
##
  10
      rs CALML3 rs PPP2R2C rs CNTNAP2
                                           rs C7 rs SLITRK6 rs PLIN4
                                                                        rs BEX1
                            9.885785 10.9445654 10.158225 9.073195 4.8503094
## 1
     9.5918927
                 9.873319
##
  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
                                                             7.146185 4.1080309
## 5
      6.8762935
                 9.646942
                            10.732571
                                      8.7310824
                                                   5.565445
## 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
     2.7889989
                10.006407
                            7.895760
                                                   3.756863
                                                             7.560540 2.8598106
## 8
                                       4.6027835
## 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
                            10.508928 6.3719961
                                                  1.9995671 5.6759062
       8.347532
                7.0122636
                                                                          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
                 0.8535167
                             2.442997 0.4889263
                                                  0.8535167
       10.336261
                                                             2.4429966
                                                                          5.236956
                           10.504485 7.6170994
                                                  0.8418926 3.6426669
## 5
       9.334523
                 9.3031981
                                                                          8.276279
                             2.364404 3.2170446
## 6
       6.983207
                 6.5914954
                                                 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
                              8.571007 7.9700794 0.4930324
##
  10
        2.222403
                 7.3464579
                                                            2.3431520
                                                                         10.181547
##
                           rs_PCK1 rs_RPS28 rs_ESR1 rs_CDC20B rs_PDZK1
      rs_LRRC31
                  {\tt rs\_HBA1}
     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
     6.5388764 5.1246590 0.8535167 8.696683 13.647783 0.4889263 7.843885
     1.3700527 1.0794976 0.0000000 2.620727 13.870330 6.8368356 9.786161
     3.1342374 5.0170177 3.5075917
                                    4.407910 9.926284 0.6028369 4.694674
     1.7285301 1.4333334 1.3463045 9.859952 7.024519 0.4706150 3.057866
     0.0000000 3.0389629 2.4648251 9.696365 4.883342 0.7617108 3.277003
     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_DLK1 rs_IGSF1 rs_MAGEA6
##
        rs SYT9
                                                 rs_GRPR
                                                          rs_FOLR1 rs_S100P
## 1
     7.9046093 0.8928184 1.9995671 0.0000000 10.2564863
                                                         6.2874834 8.018631
     7.8833178 0.0000000 6.3621069 0.0000000
                                               2.9070252
                                                         4.6132311 6.917703
     4.5876830 0.4497462 9.5629535 0.0000000
                                              4.6094654
                                                          5.2597018 9.918025
     0.4889263 5.6030210 2.3317912 0.8535167
                                               3.1152330
                                                          3.3616140 13.008752
     8.0361170 0.0000000 4.9031492 0.0000000
                                               9.9954984
                                                         4.5103797 6.103279
     1.0266584 1.0266584 1.0266584 0.0000000
                                               1.6204457 10.6151030
                                                                     9.399329
## 6
  7
      0.4706150 4.6608488 3.1856604 0.0000000
                                               2.2799170
                                                         6.3019900
                                                                     2.588205
      2.5529426 0.4304994 9.6933383 0.4304994
                                               1.7799321
                                                          5.6547334
                                                                     8.913685
                                                         2.2131295
     0.0000000 0.0000000 3.5098225 0.0000000
                                               0.6035967
                                                                     8.838204
##
  10 9.0337556 0.0000000 0.4930324 0.0000000
                                               6.4287739
                                                         0.4930324
                                                                    4.979847
##
      rs_CXCL13
                  rs_DCD rs_FOXI1
                                    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
```

```
13.888390 0.000000 6.500823 6.380236 3.755561
                                                       9.008341 3.530283
      8.070544 5.399322 3.687721 6.655946 9.528880 13.222142 4.089007
      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
     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
                 11.791504
                             1.622087 10.039694 0.0000000
                                                            0.000000 8.232561
## 9
      1.622087
## 10
     6.307860
                  7.081584
                             6.329947 0.000000 0.0000000
                                                             3.768703 1.945570
##
                 rs_DIO1 rs_NBPF4 rs_AQP7 rs_ABCA12 rs_GLRA3 rs_SAA2
     rs PLA2G2A
## 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
       1.575796 10.535625 2.421748 0.8418926
                                              6.678442
                                                       5.358108 2.951457
## 5
       7.281367 2.852818 3.369620 4.0941347 5.280329
## 6
                                                       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
      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
     11.670077 7.7113084 6.5941409 3.5719923
                                             1.144242
                                                        2.331791 8.292155
## 4
## 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
      6.031748 1.3553546 1.8470749 7.7485538
                                               2.854913
                                                        3.509822 4.976689
## 9
## 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
     2.806881 8.435851 11.526563 9.8600791 7.546333
                                                          5.722769 7.6576493
## 1
     0.000000 11.121915 7.061161 0.0000000 8.069391
                                                           4.761594 3.1016837
     1.300534 10.506124 10.287521 2.9230351 4.693448
## 3
                                                           4.663982 6.2125616
     7.299487 7.058801 5.411196 4.1326262 8.017892
                                                           5.128491 8.0922878
     0.000000 14.331636 12.483022 7.0197453 8.426710
                                                           7.044983 6.0610979
## 5
     0.000000 11.433066 8.041375 1.3538878 1.026658
                                                           0.000000 2.3644043
     0.000000 8.501270 5.869437 0.4706150 4.807139
                                                           7.745986 2.8420737
     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_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
      5.626279 6.028684 10.680037 2.509696
## 2
                                             0.0000000 8.128303 4.3059632
```

```
11.042407 11.296836 11.501083 8.856016
                                               4.1559678
                                                           9.506027 3.2347159
                                               0.0000000
      7.686094 6.769759
                          12.661615 3.522206
                                                           9.507754 1.3860936
      8.917573
## 5
                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
                           3.470446 5.892865
                                               3.6002103
## 8
      5.174778
               7.675429
                                                           3.277003 5.7510298
      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
                                     0.000000
## 1
     9.380979 9.0535556 1.9995671
                                               9.793387 11.9018640
                                                                   5.9503121
     5.516737 6.6379971 1.0590091
                                     0.000000
                                               9.646874
                                                         7.5744429
                                                                    7.7685330
     8.097427 5.4407064 1.0686020
                                     1.832120
                                               8.320169
                                                         3.7481499
                                                                    4.8295858
## 3
## 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
     7.440602 3.2953410 8.3519379
                                     2.952837 12.505127
                                                         1.0266584 9.1769231
## 6
## 7
     7.612906
              5.3613473 5.2920344
                                     2.030407 12.733787
                                                         5.8694372 10.1879031
     5.044031
               2.7889989 4.0268355
                                     0.000000 13.778411
## 8
                                                         1.4534912 10.6349478
     7.702516 3.9585922 0.0000000
                                     0.000000 12.434968
                                                         0.6035967
                                                                   3.7515923
## 10 5.104672 0.4930324 0.4930324
                                              8.663782 8.6256004
                                     0.000000
                                                                   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
     6.098780 7.4156716
                         7.5907517
                                    2.9070252
                                              4.2246963 0.4448791 4.9361432
     5.675655 8.7740052 5.7657071
                                    7.2381859
                                               2.2197106 2.4301782 6.1320791
## 3
     4.099060 7.1680593
                                    1.7742494
                                               1.5931625 0.0000000 1.1442422
                         3.7555606
     3.548104 8.4100027
                         3.1576743
                                    2.5246655
                                               2.1908677 4.0401648 4.5596876
     9.361152 6.1606661 7.7000943
                                    4.4767446
                                               4.8583938 0.0000000 8.2548425
     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
     3.635766 0.0000000 9.7347428
                                    7.9529468 2.0416986 0.0000000 9.4919621
## 10 0.000000 6.4954377 0.8598106
                                    ##
     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
## 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
       6.239492 0.4930324 4.078029
## 10
                                       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
     0.0000000 0.0000000 1.0590091 12.411103
                                               2.598389 4.7673423
                                                                   4.774213
     6.5644437 0.0000000 8.4912426 11.634049
                                               7.831590 4.3752550
                                                                   9.257973
     0.0000000 0.0000000 7.1841573 7.426718
                                               3.711814 1.5931625
                                                                   5.782920
## 4
     0.0000000 0.0000000 2.3109217 13.674621
                                               3.687721 0.4815056
                                                                   8.732427
     0.6028369 0.0000000 6.8916452
                                   6.717719
                                               6.118208 3.6925946
                                                                   3.692595
     0.0000000 0.4706150 4.2574406
                                    8.993440
                                               4.704180 2.3901724
                                                                   4.167422
     0.0000000 0.4304994 1.4534912
                                    6.339478
                                               4.702486 3.8853108
                                                                   6.216692
     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
     1.5002922 5.300446 4.3752550 6.282025 2.430178 1.6757256
                                                                4.987639
                                                     2.4429966
     2.3317912 5.326703 1.1442422 3.243669 2.442997
     1.1300083 5.358108 4.9221265 6.993071 1.370053
                                                     1.9158650
                                                                3.280407
     9.7047790 7.787361 2.8528179 2.364404 4.219935
                                                     9.5596270
                                                                9.378119
     4.8463479 1.346305 1.8873693 3.123186 7.521991
## 7
                                                     3.3583541 10.514727
     9.7410178 3.327845 0.7617108 2.552943 7.815635
                                                     0.4304994
     9.9845317 2.747387 0.0000000 2.954959 4.096431
## 9
                                                     5.9492338
                                                                6.283424
  10 0.4930324 5.580528 6.2854281 3.316595 0.000000 0.4930324
                                                                5.187653
                            rs_ORM2 rs_PON3 rs_FAM3B
##
      rs_TRIM29
                 rs_SYT8
                                                          rs_FGB rs_S100A9
## 1
     10.534572 6.8768337
                          0.5144000 8.529096 8.108708 0.0000000
                                                                 4.401562
                          0.0000000 2.681966 3.564939 0.7843365
     10.014380 5.5504821
                                                                  5.963379
## 2
      9.457312 6.4116550
                          0.4497462 7.114159 4.609465 1.8321204
                                                                  6.288790
      8.008882 2.4429966
                          0.0000000 1.935083 11.452869 0.0000000
## 4
                                                                 5.369568
      7.542413 3.7314114
## 5
                          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
      9.207137 7.2274937 10.5192834 5.840599 5.869437 1.1090262 11.261910
     11.338094 7.7518968
                         0.5484366 0.000000 4.403861 0.0000000
                                                                 8.393248
     11.090446 0.6035967
                          3.0485326 6.748291 5.357735 0.0000000 7.570732
     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
     8.9310179 9.2368164
                             9.864727 9.365133 7.766676 7.1360642 10.618738
     4.5254613
                8.2984824
                             7.999852 7.017591 4.138569 3.7310963 6.374720
## 2
     9.5168736
                8.2263693
                            12.931184
                                       9.276813 9.818674 0.0000000 3.055890
                            13.455387 9.170651 8.144643 0.0000000 12.984683
     2.8179097
                0.8535167
## 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
                                                 7.331332 0.0000000
## 7
     1.1090262 0.8248086
                             6.918127 10.659349
                                                                     3.358354
## 8
    0.4304994 7.7726926
                             3.112733 6.655353 8.014980 8.1196939
                                                                    2.552943
     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
                     6.394211 11.029807
                                          7.755279 9.895552
## 1
       5.381917
                                                                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
                                          4.584692 8.158968
## 4
                     0.000000 10.860462
                                                                6.519976
       3.115233
## 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
                     1.919111 6.987323
                                          7.056794 6.497740
       8.849879
                                                                2.370945
## 9
                     1.027933 1.355355
                                          6.131340 2.854913
       6.836196
                                                                4.051929
## 10
       6.783813
                     3.193504 10.090678
                                          2.343152 7.761085
                                                               10.579343
                 rs_TMC5 rs_ABCA8 rs_SLC9A2 rs_COL10A1 rs_FOXJ1 rs_ANXA8
      rs ACTL8
     1.6516832 10.750501 6.295374 6.9734437
                                            10.775751 8.8381898 7.3595018
     0.0000000 10.232753 6.342980 1.4884122
                                             14.358588 5.6156900 7.1844886
     0.0000000 8.285070 8.772799 4.6520677
                                             10.669270 1.8321204 9.1101523
## 3
     0.4889263 3.918386 6.882576 0.8535167
                                              9.106635 1.1442422 5.0737260
     1.9158650 11.333068 5.242080 7.8455001
                                             12.853613 8.4283702 5.9896749
     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
    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
     6.546201 0.0000000 2.087599
                                    6.926296 6.052429 1.0590091
                                                                 4.279382
     7.015639 1.5002922 1.500292
                                    7.949430 5.956247 2.3287790
                                                                 8.833056
     8.351237 0.0000000 3.993394
                                    3.115233 5.706959 8.4969025
                                                                 4.928385
     8.972085 6.0438738 2.059909
                                    6.347451 7.599524 0.0000000
                                                                 4.653519
     7.872844 0.6028369 5.494643
                                   10.986559 6.766646 0.6028369
## 6
                                                                 8.751475
     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
                              9.395735 0.8961556 4.850309
## 1
     0.8928184
                   6.507236
                                                           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
                              4.376290 1.1599520 10.756301
                   1.935083
                                                            1.9350825
                                                                       3.5222064
## 5
     7.6141849
                   4.140803
                              7.906328 3.7014049 11.801363
                                                            3.1576743
                                                                       2.9514572
                              2.745323 0.6223682 4.335633
## 6
     4.5099618
                   8.791896
                                                            0.6028369
                                                                       4.2980864
     0.8248086
                   5.027844
                              6.936413 4.6386821 3.185660
                                                            1.8873693
## 7
                                                                       1.5500634
                              4.623282 3.8981503 5.268861
## 8
     0.0000000
                   5.417117
                                                            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_HGD rs_CHST8 rs_VTCN1
      rs SMYD1
                  rs TRH
                          rs SYTL5 rs KNDC1 rs CHIT1
     1.440208 1.1923204
                          6.4588725 5.0869154 5.675906 8.858305 7.588688 10.866273
## 1
      2.681966 1.6630713
                          8.2009275 1.8188915 3.949171 8.612522 2.415164 12.648143
     1.500292 3.7083307 7.2658822 6.9909583 6.448377 7.606390 6.062718 10.775752
     3.711814 7.6633062 10.4121182 0.4889263 5.706959 7.392487 6.940585 4.928385
     2.620727 3.9319761 6.8956250 3.5481037 6.260656 6.743901 7.920554 13.418577
                         4.8839629 0.6028369 2.952837 6.745880 2.502840 11.849934
## 6
     3.134237 3.1342374
     5.440351 0.8248086 2.6778916 1.5500634 8.983582 5.361347 1.728530 11.705961
     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_ROBO2 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
##
       5.8323508 0.000000 0.000000
                                    0.7843365
                                                 0.0000000 7.406488 0.7843365
##
      3.2897017 4.966020 1.675726
                                    3.5370599
                                                 5.4885054 8.443533 3.9664212
  3
      10.6294076 0.000000 8.434344
                                    0.0000000
                                                 1.3860936
                                                            6.169995 1.5931625
      4.3514587 0.000000 3.968948
                                    7.0631340
                                                            6.706079 7.6881090
## 5
                                                 0.0000000
       3.2170446 1.101852 3.633524
                                                            5.710076 8.8840881
## 6
                                    7.7668933
                                                 2.9528367
      0.8248086 0.000000 2.492571
## 7
                                    5.6543124
                                                 1.3463045 6.967866 7.6631802
       5.0741243 1.242816 2.788999
## 8
                                    6.2826159
                                                 1.4534912 12.114823 4.2802140
## 9
       0.0000000 0.000000 3.219215
                                                 0.6035967 12.073168 4.7256267
                                    8.4214867
      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
                                                               9.5687551
                                                     0.000000
                                                                           3.769803
## 3
      1.6757256
                 5.939149 7.603679
                                     6.883319
                                                     4.334246
                                                               7.2206018
                                                                           4.473547
     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
     2.0460020 3.756863 4.450492
                                     2.464825
                                                     0.000000
                                                               2.7889989
                                                                           7.112236
     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
                     1.999567 7.743791
                                           5.031303 5.7466782 2.279650 5.575796
         5.140464
## 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
                     0.000000 5.385714
                                          6.035184 5.1158947 8.663617
         2.795538
                                                                        4.294341
                                          1.353888 5.3735229 6.328348
## 6
         4.909082
                     8.524424 13.824329
                                                                         3.818871
## 7
         1.550063
                    7.135521 13.608576
                                          1.728530 5.3061674 1.887369
## 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
                                                                       {\tt 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
                                     2.5246655 13.444034 10.464187 0.0000000
## 5
       6.043874
                  4.108031 8.507462
## 6
       1.620446
                  8.591914 2.211230
                                      0.6028369
                                                7.879214 6.281021 0.0000000
       1.728530
                 5.189038 3.358354
                                     2.2799170
                                                8.492028
                                                          5.361347 1.1090262
## 7
## 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_CCL19 rs_PPP4R4
                                     rs_TTYH1
                                                  rs_EPYC rs_SLC28A3 rs_TIMP4
##
      rs_KRT13
## 1
     0.8928184
                9.5187910 1.6516832
                                     4.074754 1.4402081 1.6516832 6.709755
                1.9594734 1.2895984
                                     5.877361 10.1870021
                                                          4.5026616 3.377124
     2.5983890
     4.9539822
                8.7931660 1.9732072
                                     3.708331
                                               3.7481499
                                                          2.2197106 7.643814
     0.4889263
                6.4215616 1.7742494
                                     2.211293
                                               0.8535167
                                                          0.4889263 4.584692
## 4
                7.1977111 7.5362674
## 5
     5.2866927
                                     3.855063
                                               7.2208861
                                                          2.1908677 1.575796
     1.6204457 9.8967595 2.9528367
                                      3.046386
                                               0.6028369
                                                          7.4057244 3.295341
## 6
     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
       6.128009 6.7385584 2.9514572
                                     3.8550628 10.412281 8.3464468
                                                                      7.247461
## 5
      2.502840 1.3538878 3.7493305
                                    7.7144166
                                              6.418588 1.0266584
## 6
                                                                      4.049648
       4.660849 1.1090262 4.2862454
                                               8.392889 4.3421778
## 7
                                     6.1691293
                                                                      2.842074
                                     2.5529426
## 8
       2.370945 0.4304994 4.0572856
                                              7.622951 0.4304994
                                                                      1.779932
       2.747387 2.8549133 6.1525688
## 9
                                    5.2436653 6.925229 0.0000000
                                                                      0.000000
  10 12.013970 9.4615060 0.0000000 0.4930324 11.968640 1.6026944
                                                                      9.948015
      rs_KIAAO408 rs_FAM5B
                             rs_GLDC rs_FAM196A rs_PNMT rs_CYP4X1 rs_NCCRP1
                                       9.226536 6.018636 5.104987
## 1
         3.648109 5.0686149 1.8360857
                                                                     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
        3.852338 1.4534912 9.2589582
## 8
                                       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
##
                                                          4.784556 1.192320
##
       4.567144 9.843357 5.663766
                                    5.758143 8.5408096
##
       5.018826 8.623132 1.059009
                                    2.760945 0.4448791
                                                          6.091158 3.101684
  2
##
  3
       9.199034
                 9.580981 6.373974
                                    5.633754 0.7921057
                                                          5.511825 7.537047
       6.421562 6.052144 3.046439
                                    3.711814 0.0000000
## 4
                                                          5.221436 1.774249
       5.257105 11.677877 7.530096
## 5
                                    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
##
       5.250765 4.242320 4.714779 3.679762 0.0000000
  10
                                                          3.892595 3.256362
                                                         rs_ART3 rs_NPY5R
##
      rs GRB14
                  rs_FGG rs_C2CD4A rs_TFPI2 rs_ZBTB16
      2.5140970 0.0000000 2.5140970 6.128726 8.996616 0.5144000 0.8928184
##
     0.4448791 0.0000000 8.4190720 3.691311
                                             6.653606 0.4448791 0.4448791
     7.8816781 4.0643052 3.1179942 4.296876
                                              8.534582 0.4497462 4.9709089
     2.8179097 0.0000000 1.1442422 3.361614
                                             5.326703 0.4889263 4.3762904
     2.9514572 0.0000000 3.3380678 5.503794
                                             5.099316 1.3700527 3.4983913
     9.5336124 0.6028369 3.8039296 6.222099
                                             2.745323 8.7091910 5.5435949
     9.3245971 0.4706150 6.6784508 6.081470
                                             4.725365 6.2949221 0.4706150
     7.8178605 0.4304994 0.7617108 4.495670
## 8
                                             2.927328 7.3552648 2.0460020
     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
     2.401630
               3.7920328 1.1923204
                                        4.180792 3.0501360
## 1
                                                            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
     7.528889
               2.7955384
                           1.1300083
                                        4.535244 2.5246655
## 5
                                                             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
     3.371824 11.0000135
                           0.0000000
                                        7.943843 5.7822251
                                                            1.0279325 0.0000000
## 10 0.000000
                           0.0000000
                                        1.151989 0.4930324 1.6026944 7.8554721
               1.1519887
      rs GJB1 rs C1orf173 rs RBM24 rs TRPV6 rs ATP13A4 rs AKR7A3 rs C19orf33
##
## 1
                5.2419431 10.468932 4.691947
                                               2.279650 10.493148
     5.920010
                                                                     10.794691
     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
      2.442997
                 3.6201172
                           7.335969 2.442997
                                                1.593163 10.497130
## 4
                                                                     10.101288
                           8.454676 5.601209
## 5
     5.767827
                 8.2445917
                                                3.687721 10.607727
                                                                      7.988388
## 6
     3.134237
                 1.8453495
                           4.298086 9.901462
                                                8.721652
                                                         4.665484
                                                                      8.079496
                 2.7623063
                           4.257441 8.241179
                                                2.842074
## 7
     3.651867
                                                          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_OGN rs_C3orf57 rs_CACNG4
##
       rs_KRT4
                  rs_DES rs_TMPRSS3
                                       rs_ZIC2
## 1
     0.8928184
                2.146395
                            9.315556 8.0138564
                                               8.918299
                                                           8.124297 11.854748
     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
         8.060904 3.258232 1.1923204 3.381962 4.486727 10.249395 10.205054
## 1
## 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
         4.808890 1.935083 0.4889263 1.144242 6.916698 9.598388
## 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
         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
        10.059621 3.724912 4.8635222 8.047656 3.852468 7.809050 8.352847
                                      {\tt rs\_IGJ}
##
     rs_GRIK3 rs_TPRG1 rs_AKR1B10
                                              rs_PSCA
                                                         rs_DKK1 rs_GRIA4
     7.865391 7.241933 1.8360857 13.790641 8.1309262
                                                      3.2582325 6.8395439
## 1
## 2
     7.451834 7.049409
                         3.3771237 11.101667 5.5053130
                                                       4.5254613 4.8664085
     9.988292 6.062718 7.1065200 12.968732 7.2521005
                                                      5.3269831 3.7868995
## 3
     8.062117 10.098440 1.3860936 11.859761 0.4889263
                                                      1.3860936 3.5222064
     9.482490 6.253182 2.4217484 11.029934 9.5693170
                                                       5.7252422 2.5246655
     5.299453 4.407910
                        1.3538878 11.458017 7.4362885
                                                       6.9350978 3.7493305
     5.770985 5.061556 0.4706150 14.317628 7.7458565
                                                       2.7623063 5.2777654
     3.224287 3.793501 0.7617108 11.392664 3.4704458
                                                       5.0741243 0.4304994
     4.006020 3.635766
                         2.2131295 8.959098 4.2618467 11.0000135 0.0000000
## 9
## 10 8.772616 11.293158 1.7842946 6.373133 4.2423205 0.8598106 0.0000000
                          rs TSIX rs GRM4 rs FIGF rs HRASLS5 rs FAT2
##
     rs CYP2A7
                 rs COMP
## 1
     4.6678354 11.396651 4.665887 4.372019 1.999567
                                                      8.011463 8.396041
     2.2052361 13.642377 3.573278 1.663071 1.663071
                                                      3.880078 9.128518
     0.0000000 11.555223 5.382055 5.534774 6.205428
                                                      6.169220 7.117963
     1.9350825 10.018770 3.939029 8.755775 4.678590
                                                      7.556055 5.684499
     0.0000000 12.289828 5.852471 5.226898 1.130008 11.320160 6.455607
     0.0000000 12.514237 10.807005 3.507592 3.956317
                                                      6.470140 8.121480
     0.8248086 11.810035
                         6.947545 3.651867 4.746248
                                                      4.228057 7.282135
     0.0000000 9.408185
                         7.821524 4.116331 2.927328
                                                      4.026835 8.793334
     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 TPSG1
                                                         rs C6 rs KRT6C
    9.6705975 8.823258 0.5144000 9.100474 8.2330564 5.8785905 4.784556
     7.3533118 6.236443 1.2895984 6.460051 2.0875986 0.7843365 2.760945
     3.3937868 7.938715 2.1017173 2.697551 1.8321204 5.3269831 2.851719
     0.4889263 6.950031 0.8535167 1.935083
                                           1.1442422 3.9183862 1.144242
     7.9806240 6.326237 2.3109217 6.885992
                                          8.0026766 3.0921567 1.575796
     5.5595469 3.803930 1.3538878 1.353888 0.0000000 2.8528179 6.346854
     4.7871242 4.593306 9.9543854 2.588205
                                           1.3463045 4.8071385 4.104127
     3.4704458 5.118123 0.7617108 2.162661 0.0000000 2.1626612 3.112733
     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
                8.888614 6.326514 5.336751 5.086915 0.514400 5.086915
                                                                       2.806881
## 1
      9.306799
      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
      7.482947 7.158240
                         3.773817 3.338068 3.731411
                                                     0.000000 7.280925
## 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
```

```
15.539413 10.361711 9.457540 0.000000 6.097204 0.000000 2.162661 2.046002
      10.434667 8.810091 11.006586 0.000000 5.861715 0.000000 1.355355 0.000000
     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_SYNPO2L 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
       6.635168 2.697551 2.851719 6.656250 2.6138145 5.3400708 5.9043275
      8.754428 2.211293 1.593163 5.312128 7.3251210 0.0000000 11.0093477
## 4
## 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
       3.327845 8.224046 9.366992 8.755528 0.4304994 2.1626612 1.7799321
## 8
## 9
       2.504849 7.706111 1.027933 8.794982 1.8470749 1.3553546 2.7473874
      6.866732 1.394898 1.602694 3.374414 8.7234033 3.2563616 5.8690200
## 10
       rs_PRODH rs_SHISA9 rs_DEFB1 rs_VIPR2
                                                         rs_AR rs_TP63
##
                                              rs_SOX2
                                                                           rs IYD
## 1
      10.459306 3.192147 7.7581366 5.674455 6.0562735 9.782902 9.756706 0.8928184
                3.520221 5.6050231 2.718833 0.7843365 9.716652 9.342673 0.0000000
##
       9.400867
## 3
       3.537060
                4.733674 5.3912659 4.562664 0.0000000 8.866230 9.073400 3.2347159
      11.879359
               1.144242 0.8535167 2.516040 2.6426092 7.883860 7.000904 0.4889263
##
  4
## 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
      7.368843 4.616175 8.7189181 3.260146 0.0000000 4.342178 8.481170 2.1605653
      8.394740 9.973852 4.2276256 3.889717 1.6259250 1.779932 4.280214 1.2575538
## 8
                1.027933 3.4424658 2.034392 2.3663642 0.000000 3.509822 2.6312207
## 9
       6.748291
## 10
                8.071886 2.8300930 1.239276 0.0000000 7.403118 5.425046 0.4930324
     1.945570
      rs PLCH1 rs SLC27A6
                             rs HPX rs PP14571
                                                 rs DLX2 rs SPAG17 rs PRG4
                 6.472857 11.558061 6.2795493 9.2979895 6.8067945 7.377752
## 1
      3.1228880
## 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
                 8.848792 2.162661
                                     1.0308304 3.9957197 1.6259250 5.011581
     9.0276506
     8.0967821
                 1.355355
                           3.219215
                                     0.0000000 5.1411957 4.4790688 1.631803
## 9
## 10 0.8598106
                           6.684450 6.9113632 7.6366514 0.0000000 9.762606
                 4.523587
##
       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
      9.132237
                6.500894
                          5.708289 12.023256 0.7843365 10.943454
                                                                   0.4448791
                4.126056
                         7.476108 12.488857
                                              2.9230351 14.961188
## 3
      9.003144
                                                                   1.0686020
                2.211293 10.165350 13.848029
                                              3.4171504 10.200399
      8.015645
                                                                   1.9350825
      8.849813
                3.092157
                          6.506789 11.614757
                                              4.6760530 10.821485
                                                                   0.0000000
## 5
## 6
     12.713106
                7.968559
                          2.039840
                                    5.651738
                                              0.0000000 7.910652
                                                                   8.3297591
      15.139454 3.560507
                          3.057866
                                    7.331332 0.0000000 11.007622
                                                                   4.2862454
     10.001522 11.747069
                          8.887441
                                    7.144506
                                              0.0000000 8.308755
                                                                   4.5177355
     10.876276 9.831700
                          5.053633
                                    4.936129
                                              0.0000000 13.258518
                                                                   6.5704356
## 9
## 10
     8.032021
                2.090616
                          8.844703 12.334662
                                              6.6787241 10.198654
                                                                   3.3165947
##
        rs_TLX1
               {\tt 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
     0.0000000 4.7159318
                          7.080538
                                    5.1998333 2.5983890 0.000000
                                                                  1.2895984
     0.4497462 0.7921057 9.590596
                                    5.4161980 1.5002922 3.393787
## 3
                                                                  1.5002922
     2.3317912 0.0000000 12.053903 11.7168205 1.3860936 2.732920
                                                                 2.0797706
     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
     8.5189191 4.9976718 6.382206 0.0000000 0.4304994 4.495670 3.6410026
     9.7382575 0.0000000 7.189369
                                    0.6035967 0.6035967 0.000000 10.0790311
                                    5.6406730 0.4930324 4.273046
## 10 0.0000000 1.6026944 8.246547
                                                                 1.1519887
     rs RERGL rs CXADRP3 rs CHST9
                                    rs CD36 rs CYP4F11 rs CD177 rs TBC1D3G
     4.110973 4.5929832 5.5627797
                                    9.675896
                                              8.311023 2.806881 4.2795753
## 1
     1.663071 3.3771237 6.0757915
                                   5.757274
                                               4.196552 2.314029
                                                                 0.0000000
     4.375255 0.4497462 3.5818212 11.117011
                                               8.325114 3.490865
                                                                 0.4497462
## 3
     2.331791
               2.8179097 3.3616140
                                    9.712393
                                               6.769759 1.144242
                                                                  0.000000
     3.968948 4.7628272 2.5246655
                                    7.566735
                                              7.450636 3.220345
                                                                 3.6426669
     5.117433 0.0000000 8.7392692
                                   9.662007
                                               4.933776 2.502840
                                                                 0.0000000
     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
    0.000000 1.0279325 2.0416986
                                               2.366364 1.355355
                                                                 0.0000000
## 9
                                   5.861715
## 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
     0.0000000
               6.824240 12.194769
                                   4.7356197 5.823176 3.880078
                                                                1.9594734
     1.0686020 7.824623 11.151756
                                   2.7766936 7.202802 7.641172
                                                                7.6305591
     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
     1.0266584 7.968559 10.099970
                                    6.1501677 1.353888 5.201179 11.5584406
     0.0000000 10.008322 8.518062
                                    3.3583541 4.422206 4.570074 9.1843656
     0.4304994 7.060558 7.498085
                                    4.1163315 3.112733 2.788999 10.8867451
     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
       6.867548 5.878590 11.166764
                                     9.403969 5.970166 6.8012634 7.935233
## 1
## 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
     3.549681 6.394211 0.8994850 1.440208 7.0453938
                                                      1.4402081 0.5144000
## 1
     2.415164 8.232453 0.4448791 2.509696 2.3140294
## 2
                                                      2.6819664 1.6630713
     5.726376 6.116951 4.7390164 1.500292 5.4407064
                                                      1.6757256 0.7921057
     4.404052 5.369568 0.0000000 0.000000 4.4312820
                                                      0.4889263 0.8535167
     3.220345 6.531715
## 5
                        1.5967444 1.575796 2.9514572
                                                      0.8418926 1.5757964
     6.400985 12.112058 2.3379965 2.745323 4.6356906
## 6
                                                      4.5741984 3.8039296
     9.501582 11.409929
                        0.4786095 2.762306 3.9325526
                                                      0.0000000 5.1737071
                         2.2829735 3.898150 0.4304994
                                                       7.6631062 1.0308304
     9.685439 12.490507
## 8
     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
       6.711543 6.655946 2.875603 13.040313 1.370053 0.4815056 5.013440
## 5
```

```
## 6
        4.219935 9.049973 5.336965 5.681202 2.852818 6.9653537 9.218968
       5.490715 6.523786 4.593306 7.355315 5.374817 4.5933060 5.204211
## 7
## 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
##
        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
     4.8715776 5.989750 8.139719
                                  6.4867063 1.4402081 7.192084 7.0453938
     5.2139421 6.753567 7.457774
                                  2.0875986 1.9594734 8.681404 3.3771237
     1.0686020 7.282926 4.652068
                                  0.7921057 4.4971077 5.654857 6.4423215
     2.2112926 4.947376 5.844991 10.4467262 1.5931625 4.064685 3.4171504
     2.6207272 7.228529 5.819349
                                  0.8418926 1.1300083 6.684012 7.5817316
     0.6028369 4.407910 8.685759
                                  5.8201253 4.7232800 3.507592 0.0000000
     0.8248086 5.173707 7.944130
                                  2.8420737 7.1315586 6.436547 0.8248086
     0.0000000 2.991808 8.554047
                                  4.4038608 9.4221462 3.680662 0.0000000
     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_CA3 rs_SCNN1G rs_TPSD1 rs_PCDHA12 rs_TSPAN1
##
       rs_TOX3 rs_IRX4
       9.330033 4.973460 5.236382
                                  5.960273
                                            0.000000
                                                       4.469534 12.384874
## 1
      8.843301 5.002662 4.735620
                                  4.382902 6.622216
                                                       4.326890 11.031216
## 2
## 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
      9.317603 2.951457 2.421748
                                  3.092157
                                            6.086555
                                                       7.047794 9.950571
      8.503958 1.353888 6.640320
                                  5.606377
                                            2.952837
                                                       5.326933 4.219935
## 6
       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
       5.393838 8.397237 2.631221 2.366364 1.355355
                                                        0.000000 1.847075
##
     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
         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
         0.000000 \ 9.1987355 \ 2.5028398 \ 10.313772 \ 6.0744626
## 6
                                                           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 MKX rs CLDN19 rs FGF10 rs MMP11
                                                         rs NTS rs KCNG1
##
      rs CXCL14
     12.824365 4.037602 6.1977121 2.1463945 10.745470 0.0000000 3.2582325
## 1
     11.758863 3.807509 5.0662485 5.4937946 13.784815 0.0000000 3.2182387
     10.117423 3.999793 4.1260560 3.7868995 12.276160 1.6757256 2.7766936
      9.383420 3.115233 3.1152330 1.1442422 9.209511 0.8535167 0.4889263
     12.115824 9.830780 2.1908677 3.7314114 13.938613 0.0000000 1.7558276
      9.480132 2.852818 0.0000000 0.0000000 12.337420 6.8337819 6.6222041
      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
     10.811269 7.040707 7.6879376 2.8926047 1.440208 3.3214231
## 1
                                                                 1.4402081
      8.982684 5.539320 6.7341216 1.4884122 0.000000 0.7843365 7.3437205
## 3
      7.181146 8.022284 4.1852719 3.7868995 4.126056 2.8517191 0.0000000
      8.046792 9.195682 5.9238029 0.8535167 2.442997 1.1442422 10.7163845
## 4
```

```
## 5
       9.455063 6.449079 3.3380678 3.2804070 0.000000 0.4815056 0.8418926
## 6
      7.622477 2.211230 5.4779525 7.6450827
                                              0.000000 6.4869219
                                                                 0.0000000
      7.456979 2.492571 0.4706150 7.2459386
## 7
                                              0.000000 7.5219914
                                                                  1.3463045
## 8
       8.540637 3.864107 0.4304994 7.6431679
                                              0.000000 4.1163315
                                                                  1.0308304
##
  9
       8.934797 8.015113 0.6035967 9.5895586
                                              0.000000 6.8621997
                                                                  0.0000000
      2.558023 7.005859 1.3948982 1.7842946 0.000000 3.1935037
##
                                                                  1.9455702
       rs OSR1 rs S100A1 rs CITED1 rs ADAMDEC1 rs PLP1 rs ANO3
                                                                  rs NELL2
                                       5.086915 6.547437 5.909766
                                                                   7.179348
## 1
       8.847612 9.299952 6.8341360
##
  2
       6.512356 10.572261 0.4448791
                                       4.357707 4.547912 2.415164
                                                                   4.811800
##
      6.896668 7.464203 9.0526800
                                       5.784978 5.145066 3.786900
                                                                  7.159161
       5.603021 8.945981 2.8981890
                                       1.774249 3.839274 1.144242
                                                                  9.609607
       5.099316 8.804510 4.1080309
                                       3.931976 2.524666 1.575796 10.008875
## 5
## 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
      10.061435 13.008714 3.3278454
                                       7.842112 5.229288 2.788999
## 8
                                                                   6.863543
## 9
      10.309723 8.145242 2.0416986
                                       4.261847 3.751592 0.000000
               7.542055 2.9866112
## 10
     3.633152
                                       6.373133 2.558023 2.222403 11.047327
      rs CAPN13 rs HAPLN1
                             rs NMU rs EMX1 rs GPRIN2 rs C19orf21
                                             4.992999
## 1
     9.7285707
                3.050136 0.5144000 7.699877
                                                         11.588886
                                                                   1.4402081
     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
     7.9299348 2.732920 0.0000000 4.319127
                                              3.303839
                                                          9.529968
                                                                    1.9350825
     9.6304502 7.557663 0.4815056 4.804332
## 5
                                              6.811615
                                                          9.889209
                                                                    0.0000000
                2.629170 5.2011790 0.000000
      4.4767446
                                              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
     0.6035967
                6.862200 6.4122192 0.000000 9.151945
                                                          5.924765
## 9
                                                                    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
##
## 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
                 0.0000000 3.4469046 7.539343 0.0000000 2.3109217 1.3700527
## 5
       0.8418926
## 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
      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
##
                             3.2537019 1.4402081 9.870020 3.3214231 4.037602
  1
        3.050136 3.381962
                             1.2485348 1.8188915 9.315944 2.4151637 4.332071
## 2
       0.000000 2.760945
##
  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
       3.633524 2.952837
                             1.9898656 4.2980864 8.797608 7.6636542 1.353888
## 6
## 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_MUC2 rs_CALB2 rs_CHRM1 rs_CCL14 rs_PCDH10
##
      rs_SLC15A1 rs_DEGS2
## 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
      0.7921057 8.776414 0.4497462 7.452198 2.9909912 9.847590 1.8321204
## 3
```

```
## 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
##
      8.005946 1.2895984
                          4.046980
                                   3.949171 8.314152 2.509696
                                                                 6.748730
      8.879737 5.7559745
                          0.000000
                                    6.944583 12.233405 3.932260
                                                                 6.536291
## 4
      8.827992 1.3860936
                          0.000000
                                   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
                          0.000000 10.229742 5.952373 4.725365
                                                                 7.886516
## 8
       7.758862 4.0572856
                          0.000000 9.450387 13.164389 2.046002
                                                                 6.552213
                          0.000000
                                   4.607608 10.304955 3.858797
## 9
       1.027933 2.3663642
                                                                 8.083027
##
      9.702071 0.8598106 1.151989 4.497804 7.855320 4.444813
                                                                2.090616
      rs_MMRN1 rs_SERHL2 rs_SEZ6L rs_TNNI3
                                                                   {\tt rs\_PAX2}
##
                                             rs EREG rs ADAMTS15
## 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
     10.228042 8.867722 1.675726 4.7533746 0.7921057
                                                         6.154478 5.0841408
      7.823475 8.904353 4.319127 1.1442422 0.8535167
                                                         8.107140 0.4889263
## 4
                8.541931 2.190868 5.7989603 2.5246655
## 5
       6.598121
                                                         7.166220 4.6073658
      7.266864 6.170049 1.353888 0.0000000 3.4402612
## 6
                                                         2.852818 1.3538878
## 7
      4.522451 4.987375 1.109026 0.0000000 3.5125556
                                                         3.411603 0.0000000
## 8
       3.719260 4.332443 0.000000 0.0000000 3.5150185
                                                         2.714531 1.9191112
       2.041699 4.587173 0.000000 0.0000000 0.0000000
## 9
                                                         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 0.000000 1.0590091 0.0000000
## 3
     6.2752269
                4.753375
                             3.748150 2.7766936 4.733674 2.9230351 0.7921057
     2.4429966 5.970962
                             7.101809 1.1442422 2.331791 1.1442422 0.4889263
## 4
## 5
      1.1300083
                3.931976
                             3.023522 4.5352443 0.000000 1.1300083 7.5082844
     3.4402612 11.393281
                             5.590937 7.1505475 1.353888 5.9099795 3.0463863
## 6
## 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 0.000000 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
       0.4448791 6.143689 3.8800782 10.573971 0.7843365 2.598389 3.949171
## 2
## 3
       5.1745902 5.590599 2.6138145
                                    8.894229 5.4885054 2.613815 5.036697
       5.9802104 4.319127 0.8535167
                                     9.351701 1.5931625 1.935083 4.984617
                                     2.710790 1.1300083 1.575796 3.498391
## 5
       3.5961599 3.498391 3.6426669
## 6
       2.0398403 5.970900 3.0463863
                                    4.179208 1.0266584 6.085525 5.028525
       0.4706150 7.238589 2.1605653 6.259048 1.1090262 3.737784 4.546456
## 7
## 8
       0.4304994 9.917385 1.0308304 4.759166 7.8766759 9.367751 3.829231
       0.0000000 8.113117 3.5741621 2.747387 3.1363883 3.442466 4.479069
## 9
## 10
        1.3948982 9.204869 2.5580227 9.128164 4.6693046 0.000000 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
      3.620117 11.659140 1.9350825 6.069582 3.689433
                                                       0.000000
                                                                   3.215119
      4.433106 9.503904 4.1080309 7.882304 6.107181
## 5
                                                       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
      1.257554 5.344892 3.8641069 6.901806 5.288248
## 8
                                                       2.464825
                                                                   2.717583
      3.509822 5.030883 1.0279325 2.213130 1.622087
                                                        3.048533
                                                                   0.000000
                                                        2.454597
## 10 1.602694 10.967973 0.4930324 5.947311 5.127720
                                                                   0.000000
##
      rs HIF3A
                rs GPM6A rs CXCR2P1 rs DACH1 rs C1orf95 rs HEPACAM rs TMEM45B
     4.913196 5.1228342 4.6183679 8.527472
## 1
                                               3.878617 2.8400402
                                                                     6.465881
     1.663071 1.8188915
                          0.7843365 8.870273
                                               3.218239
                                                         0.4448791
                                                                      8.195606
     6.176534 3.9997926
                          1.9732072 7.430948
                                               8.984512
                                                         4.8199032
## 3
                                                                      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
     6.916635 2.9528367
                           6.1182081 4.476745
                                               2.629170
## 6
                                                         1.1765781
                                                                      3.440261
## 7
     2.279917
               3.9325526
                          7.5159245 4.865558
                                               2.989466
                                                         2.3901724
                                                                      2.160565
                          7.3491237 3.719260
## 8
     9.257320 0.7617108
                                               8.248996
                                                         1.6013637
                                                                      1.257554
     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 FMO2
                                    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
     2.760945 3.101684 7.387943 5.097021 7.568965 2.205236 6.028684
                                                                         6.257028
     5.300446 2.430178 5.036697 10.921911 6.478281 8.144812 7.209948
                                                                         6.288790
     5.923803 3.798019 7.350307
                                 7.595710 4.484248 4.723340 6.563701
                                                                         6.366195
     3.280407 3.731411 6.487808
                                 4.433106 7.383759 4.459327 6.621529
                                                                         8.344690
     7.568311 8.326523 10.047197
                                  4.958054 3.633524 5.621656 9.305475
                                                                         6.107397
     4.167422 6.678451 12.749305
                                  4.766834 4.104127 5.110693 6.894939
                                                                         9.083367
     8.079458 3.376971 6.327035
                                  5.307378 4.683090 5.307378 5.229288
                                                                        13.510640
     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
     10.288787
                  1.974529
                              5.273411 8.235153 4.2968758 0.4497462 2.3287790
## 3
      6.687447
                  2.445144
                              3.361614 7.204031 1.9350825 0.0000000 0.8535167
## 4
## 5
                  2.314378
                              8.330555 7.166220 0.0000000 0.0000000 0.4815056
      7.608338
## 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
     10.826690
                  8.507895
                              5.451920 5.884398 2.4648251 0.0000000 3.2242873
## 8
                  4.480743
                              9.481515 4.374539 0.6035967 1.0279325 3.1363883
## 9
      9.767791
                              7.893047 7.028547 3.4300176 0.0000000 1.1519887
## 10
     8.604614
                  1.151989
      rs MYH11 rs LOC100124692 rs HS3ST4 rs SELP rs PADI3 rs ACVR1C rs AMY1A
##
## 1
                     0.0000000 1.6516832 7.769511 4.6183679 5.012278 0.514400
     11.838799
                     3.5649390 2.8358432 4.735620 1.2895984
## 2
     11.078597
                                                            2.314029 0.000000
                     2.1017173 0.0000000 7.635876 1.5002922
## 3
     11.843764
                                                            6.805251 1.500292
                     2.0797706 0.8535167 6.822135 0.4889263
                                                             4.484248 1.774249
## 4
     10.230389
## 5
      9.599368
                     0.0000000 2.3109217 6.468574 1.3700527
                                                             2.710790 1.575796
                                                             3.907285 7.453467
## 6
     11.815484
                     3.9563169 0.0000000 7.466218 3.8565376
                                                             4.939946 7.151262
## 7
      11.255411
                     0.8248086 4.3421778 8.150102 0.0000000
## 8
      8.558937
                     7.0717884 6.2890469 5.074124 0.0000000
                                                             3.376971 6.979393
## 9
                     3.8587966 0.0000000 2.041699 1.0279325
      7.952735
                                                            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
```

```
## 2 5.505313
                  2.509696 0.4448791 3.7698035 0.000000 0.000000
## 3
      6.335281
                  4.296876 3.7083307 0.0000000 0.000000 4.554828
                                                                              0
     7.223634
                                                   0.000000 0.000000
                  0.000000 1.5931625 0.8535167
      6.382129
                  3.092157 0.0000000 0.8418926
                                                   0.000000 1.755828
## 5
      8.217621
                  0.000000 0.6028369 3.1342374
                                                   3.692595 0.859413
## 7
      7.289266
                  0.000000 0.8248086 1.5500634 2.677892 0.000000
                                                                              0
      7.376553
                  0.000000 1.2575538 1.9191112 8.543329 2.565719
      5.973294
                  0.000000 0.0000000 2.3663642 4.808205 1.027933
## 9
## 10 7.955946
                  2.986611 1.3948982 0.8598106 0.000000 2.139469
                                                                              0
      cn_SAMD11 cn_TNFRSF18 cn_BAI2 cn_TEKT2 cn_DNALI1 cn_RSP01 cn_KIAA0754
##
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                                                         1
                                                                   1
                                     0
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## 2
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## 3
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## 4
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## 5
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## 6
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## 7
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                                               2
## 8
               0
                            0
## 9
               2
                            2
                                              2
                                                         2
                                                                    2
                                    -1
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                                                         0
## 10
               0
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##
      cn_KCNQ4 cn_CITED4 cn_EDN2 cn_CLDN19 cn_CDC20 cn_ARTN cn_HPDL cn_TSPAN1
              1
                         1
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## 2
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## 3
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## 4
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## 6
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## 7
## 8
              0
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## 9
              1
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                                           -1
                                                     -1
                                                                                  -1
## 10
              0
                         0
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##
      cn_CYP4B1 cn_CYP4Z2P cn_CYP4X1 cn_CYP4Z1 cn_PDZK1IP1 cn_RAB3B cn_DIO1
## 1
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                                                              1
## 2
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## 3
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## 4
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## 5
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## 7
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## 8
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## 9
              -1
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## 10
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      cn_TTC22 cn_PCSK9 cn_PRKAA2 cn_C1orf168 cn_KANK4 cn_FOXD3 cn_IL12RB2
##
## 1
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              1
## 2
              0
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## 3
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## 4
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## 5
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## 6
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## 7
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## 8
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## 9
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## 10
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      cn DIRAS3 cn C1orf173 cn SLC44A5 cn ST6GALNAC5 cn AK5 cn PTGFR cn DNASE2B
##
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## 1
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## 2
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## 6
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## 8
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## 9
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## 10
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      cn_LPAR3 cn_CLCA2 cn_CLCA4 cn_GBP5 cn_TGFBR3 cn_BRDT cn_EPHX4 cn_ABCA4
## 1
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                 -1 -1 -1
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## 2
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## 3
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## 4
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## 5
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## 7
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## 8
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## 9
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## 10
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      cn_COL11A1 cn_AMY1A cn_NTNG1 cn_NBPF4 cn_NBPF6 cn_GSTM1 cn_GSTM2 cn_GSTM5
## 1
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## 2
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## 3
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## 4
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## 5
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## 6
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## 7
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## 8
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## 9
               1
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## 10
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      cn_GSTM3 cn_SLC6A17 cn_CHI3L2 cn_KCND3 cn_FAM19A3 cn_AMPD1 cn_CASQ2 cn_VTCN1
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## 1
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                                 -1
                                     -1
                                              -1
                                                                        -1
            -1
                                  0
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## 2
             0
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                                                       0
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## 3
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## 4
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## 5
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## 6
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## 7
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                                 -1
## 8
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                       -1
                                           -1
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             2
                        2
                                  0
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## 9
                                            0
                                                       1
                                                                0
                                                                         1
## 10
             0
                        0
                                  0
                                            0
                                                       0
                                                                0
##
      cn_SPAG17 cn_HSD3B2 cn_HMGCS2 cn_FMO5 cn_PDZK1P1 cn_PDZK1 cn_ZNF695
## 1
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                       -1
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                                                      1
                                                               1
## 2
                                                               0
              0
                        0
                                  0
                                           0
                                                      0
                                                                          1
## 3
              0
                        0
                                  0
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                                                                         1
## 4
              0
                        0
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                                           0
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              0
                        0
                                  0
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## 5
## 6
              1
                                  1
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                        1
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              0
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## 7
                        0
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                                           2
                                                                         2
## 8
              1
                        1
                                  1
              2
                        2
                                  2
                                           2
                                                      2
                                                               2
## 9
                                                                         1
## 10
              0
                        0
                                  0
                                           0
                                                      0
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cn_TRIM58 cn_CHL1 cn_CNTN4 cn_LRRN1 cn_EGOT cn_ROBO2 cn_CADM2 cn_NPFFR2
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## 3
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## 8
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## 9
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## 10
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       cn_ALB cn_AFP cn_RASSF6 cn_IL8 cn_CXCL1 cn_CXCL5 cn_CXCL2 cn_EREG cn_AREG
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## 1
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       cn_CDKL2 cn_CXCL9 cn_ART3 cn_CXCL10 cn_CXCL11 cn_CCDC158 cn_CXCL13
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## 10
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       cn_LRRC14B cn_PLEKHG4B cn_IRX4 cn_C5orf38 cn_IRX2 cn_IRX1 cn_ADAMTS16
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       cn_ADCY2 cn_ROPN1L cn_CTNND2 cn_DNAH5 cn_MARCH11 cn_NPR3 cn_IL7R cn_CAPSL
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## 9
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0 0 0 0 0 0 0 0
    cn_UGT3A2 cn_RANBP3L cn_FGF10 cn_GZMK cn_CDC20B cn_CCNO cn_IL6ST cn_PART1
      0 0 0 0 0 0 0 0
## 2
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## 4
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## 6
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## 8
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## 9
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## 10
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    cn_GTF2H2B cn_CARTPT cn_F0XD1 cn_F2RL2 cn_PDE8B cn_THBS4 cn_CKMT2 cn_HAPLN1
## 1
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## 3
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## 6
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## 7
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## 8
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## 10
    cn EDIL3 cn GPR98 cn FAM81B cn C5orf27 cn PCSK1 cn ERAP2 cn EFNA5 cn TSLP
## 1
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## 2
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## 3
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## 4
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## 7
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## 8
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## 10
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    cn TRIM36 cn CD01 cn AQPEP cn MEGF10 cn FBN2 cn SLC27A6 cn ADAMTS19
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## 8
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## 9
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    cn_SHROOM1 cn_FSTL4 cn_PITX1 cn_C5orf20 cn_CXCL14 cn_PCDHA1 cn_PCDHA3
## 1
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## 8
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## 9
## 10
    cn PCDHA4 cn PCDHA10 cn PCDHA11 cn PCDHA5 cn PCDHA6 cn PCDHA12 cn PCDHA13
## 1
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## 2
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## 3
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## 10
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    cn_IL17B cn_GPX3 cn_FAT2 cn_GRIA1 cn_ITK cn_FABP6 cn_ATP10B cn_FBLL1
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## 2
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## 3
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## 8
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## 9
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## 10
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    cn_FAM196B cn_FOXI1 cn_GABRP cn_STC2 cn_MSX2 cn_CPLX2 cn_UNC5A cn_FGFR4
     0 0 0 0 0 0 0
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## 2
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## 3
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## 4
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## 6
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## 8
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## 9
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## 10
    cn_RASGEF1C cn_SCGB3A1 cn_BTNL9 cn_IRF4 cn_F0XC1 cn_TUBB2B cn_ELOVL2
    0 0 0 0 0
## 1
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## 3
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## 4
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## 5
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## 6
## 7
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## 8
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## 10
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    cn_RNF182 cn_RBM24 cn_ID4 cn_DCDC2 cn_KIAA0319 cn_LRFN2 cn_PGC cn_GNMT
## 1
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## 6
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## 7
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      cn_DLK2 cn_C6orf223 cn_GSTA1 cn_HMGCLL1 cn_BMP5 cn_C0L9A1 cn_RIMS1 cn_KCNQ5
## 1
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## 6
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## 10
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      cn_DDX43 cn_MRAP2 cn_CGA cn_CNR1 cn_EPHA7 cn_FUT9 cn_SIM1 cn_POPDC3 cn_WISP3
## 1
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## 8
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## 9
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      cn_COL10A1 cn_RFX6 cn_PKIB cn_FABP7 cn_TRDN cn_KIAAO408 cn_ENPP3 cn_EYA4
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## 5
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## 7
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## 8
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## 9
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## 10
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      cn_MYB cn_IL20RA cn_IL22RA2 cn_GPR126 cn_SAMD5 cn_ULBP1 cn_PPP1R14C cn_IYD
## 1
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## 6
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## 7
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## 8
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## 9
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                                                               0
      cn_ESR1 cn_PNLDC1 cn_SLC22A3 cn_DACT2 cn_FRMD1 cn_AMZ1 cn_ITGB8 cn_ABCB5
                                 0
## 1
            0
                    0
                                           0
                                                     0
                                                              1
                                                                       1
## 2
            0
                      -1
                                 -1
                                           -1
                                                    -1
                                                             0
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                                                                                0
## 3
            1
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## 4
            0
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## 5
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            2
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## 6
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## 7
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## 8
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## 9
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## 10
          0
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##
     cn_DNAH11 cn_MGAM cn_PRSS1 cn_PIP cn_CNTNAP2 cn_KCNH2 cn_WDR86 cn_DPP6
## 1
         1
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## 2
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## 3
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## 4
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## 5
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## 6
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## 7
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## 8
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## 9
                                            2
           -1
                   1
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                                  1
                                                   -1
                                                            -1
## 10
            0
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                                                   0
                                                            0
     cn_EN2 cn_MNX1 cn_PTPRN2 cn_VIPR2 cn_CSMD1 cn_DEFB1 cn_BLK cn_GATA4
##
## 1
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## 2
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## 3
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## 4
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## 5
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## 6
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## 7
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## 8
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## 9
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## 10
          0
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                                  0
                                         2
                                                  -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
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                   0
                           0
                                 0
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                                                             0
## 3
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            1
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## 4
            0
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## 5
           -2
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## 6
           -1
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## 7
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## 8
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                   2
                                 2
## 9
            2
                           2
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                                                                        1
## 10
           -1
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                          -1
                                -1
                                        -1
                                             -1
                                                    -1
                                                             -1
##
     cn_NEFL cn_SCARA5 cn_NRG1 cn_ADAM32 cn_IDO1 cn_C8orf4 cn_ZMAT4 cn_SFRP1
                          -2
                                1 -2
## 1
          -2
                  -2
                                                 -2
                                                           -2
## 2
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## 3
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          0
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## 4
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## 5
          -2
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                                    1
                                           1
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                                                            1
## 6
          -1
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          -1
## 8
                   -1
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## 9
          0
                   -1
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                                                    -1
                                                            -1
                                                                    -1
                                    2
                                           2
## 10
          -1
                   -1
                          -1
                                                    2
                                                             2
     cn_ANK1 cn_EFCAB1 cn_PXDNL cn_OPRK1 cn_RP1 cn_SDR16C5 cn_PENK cn_CA8
## 1
          -2
             1
                        1 1
                                          1
                                               1
                                                           1
## 2
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          1
## 3
                   1
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                                    1
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## 4
          0
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                                    0
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## 5
          1
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## 6

      -1
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      -1
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      2
      2

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                                          2
             1
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## 8
      1
                   0
                             0
                                     0
## 9
       -1
             -1
                   -1
                         0
                             0
                                      2
       -1 -1 0
                   ## 10
                                     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
        0
               0
                     0
                           0
                                  0
                                        0
## 2
## 3
         1
                1
                     1
                           1
                                   1
                                        1
## 4
        0
               0
                     0
                           0
                                  0
                                        0
## 5
        1
               1
                     1
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                                  1
                                        1
                              2
-1
0
## 6
        2
               1
                    1
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                     2
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        2
                2
                                        2
## 8
        -1
               -1
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                                            -1
                    -1
                                       -1
                   0
                       0 0
0 0
## 9
        0
               0
                                       0
        0 0
                                       0
## 10
                                             0
##
    cn_PI15 cn_CRISPLD1 cn_HNF4G cn_PKIA cn_FABP4 cn_CA3 cn_CA2 cn_ATP6V0D2
        1 1 1 1 1 1 1 1
## 1
                     0
## 2
       0
               0
                           1
                                 1
                                     1
                                          1
## 3
       1
               1
                     1
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                                 1
                                     1
                                          1
                                                  1
                      0
## 4
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## 5
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                                1
## 6
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                                          0
       2
                                2
               2
                     2
                           2
## 7
                                     2
                                          2
       1
               1
## 8
                     1
                           1
                                1
                                    1
                                         1
             2
## 9
                      2
                                     1
      0
## 10
                     0
                          0
                                 2
                                    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
                          0
## 4
        0
               0
                     0
                                   0
## 5
        1
               1
                    1
                          1
                                  1
                       1
0
2
2
              0 0 2 2 1 2
                                  0
## 6
        0
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                                         2
## 7
        2
                                  2
                                         2
## 8
        1
              2
                     2
                          2
## 9
        2
                     2
## 10
        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
## 2
                 1
                         1
## 3
           1
                  1
                         1
                               1
                                      1
                                             1
## 4
           0
                  0
                         0
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                                      0
                                              0
## 5
           1
                  1
                         1
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                                              1
           2
                  2
                         2
           2
                  2
                        2
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                                             2
## 7
                              2
## 8
           2
                 2
                        2
                                      2
                 ## 9
           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
## 3
       1
            1
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                       1
                             1
                                    1
                                                1
                 0
                                 0
## 4
       0
            0
                        0
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## 5
            1
                     1
                             1
                                   1
## 6
                      2
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                                    2
         2
               2
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              2
                      2
                             2
                                    2
                                             2
## 7
         2
## 8
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               2
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                                             2
                                                     2
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                              1
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## 9
         1
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                      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
           0
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                                                    -1
## 1
## 2
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                 0
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## 3
          -1
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                                      0
## 4
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## 5
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## 6
           2
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                                                              -1
           2
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## 7
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## 8
           1
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                               2
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                                                     1
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                                      2
                                                     2
## 9
           1
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                        1
                              1
                                                              2
                                        0
              0
                                  0
## 10
           0
                        0
                              0
                                                     0
                                                              0
     cn_CDKN2A cn_DMRTA1 cn_ELAVL2 cn_TMEM215 cn_AQP7 cn_AQP3 cn_PRSS3 cn_DNAI1
## 1
          -1 -1 0 0 0 0
## 2
           0
                   0
                           0
                                                                0
                                    0
                                          0
                                                 0
                                                         0
## 3
          -1
                  -1
                          -1
                                   -1
                                          -1
                                                 -1
                                                        -1
                                                               -1
## 4
           0
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## 5
## 6
          -1
                  -1
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                                    1
                                          1
                                                 1
                                                         1
                                                                1
                  -1
                          -1
## 7
          2
                                    2
                                          2
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                                                         2
                                                                2
## 8
          -1
                  -1
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                                                               -1
                 2
0
                          1
## 9
           2
                                   1
                                       1
0
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              0
## 10
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                                                         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
## 2
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                               0
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## 3
         -1
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## 4
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## 5
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## 6
         1
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         2
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                               2
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## 7
                 2
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## 8
         -1
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                                              -1
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                                                            -1
## 9
         -1
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                               -1
                                        -1
                                              1
                                                      1
                                                             1
         0
               0
                       0
                               0
                                         0
                                                      0
## 10
                                               0
##
     cn_PAX5 cn_CNTNAP3 cn_PGM5 cn_GPR144 cn_LCN2 cn_ENTPD8 cn_CACNA1B cn_TUBBP5
         0 0 0 0 0 0
## 2
         0
                  0
                         0
                                0
                                       0
                                               0
                                                        0
                                                                 0
## 3
         -1
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## 4
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## 6
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## 7
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## 8
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## 9
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                                                        -1
                                                                -1
## 10
                  0
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                                                         0
         0
                                                                 0
     cn_AKR1E2 cn_AKR1C1 cn_AKR1C2 cn_CALML5 cn_CALML3 cn_ITIH5 cn_ITIH2 cn_GATA3
## 1
        1 1 1 1 1 1 1 1
           0
                           0
## 2
                   0
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## 3
           1
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## 4
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## 6
          1
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                                        1
## 7
          1
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                                 1
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## 8
                          1
                                 1
                                         1
## 9
          2
                  2
                          2
                                 2
                                         2
                                                       2
                          0
                                 0
                  0
                                         0
    cn_MCM10 cn_BEND7 cn_ITGA8 cn_ST8SIA6 cn_MRC1 cn_ARMC3 cn_C10orf107
##
## 1
          1
             1 1 1
                                    1
## 2
          0
                0
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                                             0
## 3
         1
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## 4
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                                      0
## 6
         1
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## 7
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                                1
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                                                      1
## 8
          1
                1
                       1
                                1
                                      1
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                                                      -1
## 9
          2
                2
                       1
                                1
                                      1
## 10
          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
           0
                  0
                         0
                                        0
                                               0
## 2
                                 0
                                                        0
## 3
          -1
                  1
                         -1
                                -1
                                       -1
                                              -1
                                                       -1
## 4
          0
                  0
                         0
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                                        0
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                                                        0
## 5
           0
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                         0
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                                        0
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                        0
## 6
           0
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                                                        -1
## 7
          1
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                                1
                                       1
                                                        1
             1 0
## 8
          -1
                         -1
                                -1
                                       -1
                                              -1
                                                        -1
## 9
           1
                         -1
                                -1
                                        1
                                               1
                                                        2
           0
                        0
## 10
                                0
                                        0
                                               0
    cn_FAM196A cn_KNDC1 cn_SYCE1 cn_WT1 cn_ELF5 cn_EHF cn_SLC1A2 cn_LRRC4C
         1 1 1 0 0 0
## 1
## 2
           0
                  0
                         0
                              0
                                    0
                                         0
                                                 0
## 3
          1
                 1
                        1
                              0
                                   0
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                                                 0
           0
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                                                 0
## 4
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## 5
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                        0
                              0
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                                                 0
                                        1
                             1
                                                 1
## 6
          -1
                 -1
                        -1
                                   1
                                                         1
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                                                 0
## 7
          1
                 1
                        1
                                   0
                                         0
                                                         0
## 8
          -1
                 -2
                        -2
                             -1
                                    -1
                                         -1
                                                 -1
                                                        -1
                 1
## 9
           2
                                    2
                                          2
                         1
                              1
          0
## 10
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                              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
## 2
         0
                0
                       0
                              0
                                    0
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## 3
         1
               1
                       1
                             -1
                                   -1
                                            -1
                                                 -1
                                                        -1
                       0
                                   2
                                            2
## 4
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                0
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## 5
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## 6
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## 7
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## 8
         1
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    cn_FOLR1 cn_PLEKHB1 cn_CHRDL2 cn_MOGAT2 cn_DGAT2 cn_WNT11 cn_KCTD14 cn_THRSP
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      cn_FAM181B cn_PGR cn_MMP7 cn_MMP10 cn_MMP1 cn_MMP3 cn_MMP12 cn_MMP13
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      cn GRIA4 cn C11orf92 cn POU2AF1 cn CRYAB cn NCAM1 cn DRD2 cn ZBTB16
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## 10
      cn_DSCAML1 cn_TMPRSS4 cn_SCN2B cn_CD3E cn_CD3D cn_CD3G cn_TTC36 cn_CXCR5
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      cn_TRIM29 cn_GRIK4 cn_VSIG2 cn_HEPACAM cn_HEPN1 cn_PKNOX2 cn_BARX2
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      cn_TMEM45B cn_ADAMTS8 cn_ADAMTS15 cn_IGSF9B cn_B3GAT1 cn_GLB1L2 cn_B4GALNT3
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##
       cn_LRTM2 cn_KCNA1 cn_NTF3 cn_SCNN1A cn_CLEC4E cn_A2ML1 cn_KLRB1 cn_BCL2L14
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       cn_MGP cn_ERP27 cn_LMO3 cn_RERGL cn_SLC01A2 cn_C12orf39 cn_TUBA3C cn_GJB2
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##
       cn_GJB6 cn_FGF9 cn_SGCG cn_ATP8A2 cn_SHISA2 cn_GPR12 cn_FLT3 cn_DCLK1
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##
       cn_FREM2 cn_PCDH20 cn_PCDH9 cn_KLHL1 cn_DACH1 cn_SCEL cn_SLAIN1 cn_POU4F1
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       cn_SLITRK1 cn_SLITRK6 cn_SLITRK5 cn_CLDN10 cn_HS6ST3 cn_OXGR1 cn_SLC15A1
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      cn_ZIC5 cn_ZIC2 cn_FAM155A cn_F7 cn_DHRS2 cn_NOVA1 cn_COCH cn_PAX9 cn_FOXA1
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      cn_SSTR1 cn_ABHD12B cn_PRIMA1 cn_IFI27 cn_PPP4R4 cn_SERPINA6 cn_SERPINA1
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##
      cn_SERPINA11 cn_SERPINA5 cn_SERPINA3 cn_TCL1B cn_TCL1A cn_DEGS2 cn_DLK1
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##
      cn_DIO3 cn_TDRD9 cn_C14orf180 cn_PLD4 cn_CRIP1 cn_ADAM6 cn_KIAAO125 cn_THSD4
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cn_GRAMD2 cn_C15orf59 cn_CRABP1 cn_RASGRF1 cn_KIAA1199 cn_TMC3 cn_AP3B2
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       cn_BNC1 cn_NTRK3 cn_ACAN cn_RHCG cn_PLIN1 cn_MESP1 cn_ANPEP cn_ST8SIA2
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## 7
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       cn_RGMA cn_SYNM cn_ARHGDIG cn_HBA1 cn_HBA2 cn_RGS11 cn_FBXL16 cn_METRN
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##
       cn_CCDC78 cn_HAGHL cn_GNG13 cn_MSLN cn_SOX8 cn_CACNA1H cn_TPSAB1 cn_TPSB2
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       cn_TPSD1 cn_TPSG1 cn_BAIAP3 cn_IGFALS cn_NPW cn_RAB26 cn_PRSS33 cn_PRSS21
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## 9
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   cn_ZG16B cn_KREMEN2 cn_PKMYT1 cn_CLDN6 cn_C16orf89 cn_ABAT cn_GRIN2A
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## 10
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    cn_TNFRSF17 cn_SHISA9 cn_ABCC6 cn_MPV17L cn_MYH11 cn_PLA2G10 cn_SYT17
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## 10
    cn TMC5 cn GP2 cn ACSM5 cn ACSM1 cn DNAH3 cn CRYM cn SCNN1G cn SCNN1B
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    cn HS3ST4 cn CD19 cn ASPHD1 cn DOC2A cn FAM57B cn SEZ6L2 cn PYDC1 cn ABCC12
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    cn_ABCC11 cn_CBLN1 cn_TOX3 cn_IRX6 cn_SLC6A2 cn_CES1 cn_MT1M cn_MT1A cn_MT1G
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## 8
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## 10
    cn_CCL17 cn_RRAD cn_CES3 cn_RLTPR cn_CDH3 cn_CDH1 cn_HAS3 cn_IL34 cn_CALB2
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## 2
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    cn_CHST4 cn_TAT cn_HP cn_SYCE1L cn_ADAMTS18 cn_CLEC3A cn_PKD1L2 cn_SDR42E1
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## 10
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    cn_HSD17B2 cn_CPNE7 cn_DPEP1 cn_TUBB3 cn_CCDC144B cn_MFAP4 cn_ALDH3A1
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    cn_SLC13A2 cn_CORO6 cn_SLC6A4 cn_RHBDL3 cn_CCL11 cn_CCL13 cn_CCL7 cn_CCL8
## 1
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## 8
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## 10
    cn_GAS2L2 cn_CCL14 cn_CCL18 cn_TBC1D3C cn_TBC1D3G cn_STAC2 cn_PPP1R1B
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## 9
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## 10
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      cn_PNMT cn_IKZF3 cn_TOP2A cn_TNS4 cn_CCR7 cn_KRT23 cn_KRT31 cn_KRT13
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## 9
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## 10
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      cn_KRT15 cn_KRT14 cn_KRT16 cn_KRT17 cn_HAP1 cn_WNK4 cn_RND2 cn_ETV4 cn_MEOX1
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## 3
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## 9
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## 10
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      cn_CD300LG cn_PYY cn_RUNDC3A cn_GFAP cn_KIF18B cn_CRHR1 cn_MAPT cn_HOXB2
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## 7
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## 8
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## 9
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## 10
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      cn HOXB5 cn HOXB6 cn HOXB13 cn B4GALNT2 cn NGFR cn DLX3 cn CHAD cn HLF
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      cn_TMEM100 cn_TEX14 cn_PPM1E cn_PRR11 cn_CA4 cn_TCAM1P cn_SCN4A cn_RGS9
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## 1
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## 9
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## 10
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     cn_CACNG4 cn_CACNG1 cn_SLC16A6 cn_ABCA8 cn_ABCA9 cn_ABCA6 cn_ABCA10
## 1
           0
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                                    0
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## 2
                   1
                            1
## 3
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                   0
                            2
                                    1
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           0
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## 5
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           2
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## 7
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          -1
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                  -1
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## 9
          -1
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                                           -1
                  -1
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## 10
          0
                  0
                           0
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     cn_KCNJ16 cn_SSTR2 cn_SDK2 cn_KIF19 cn_FOXJ1 cn_ST6GALNAC1 cn_MGAT5B
## 1
       0 0 0 0 0 0
## 2
           1
                  1
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                                        1
## 3
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## 4
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## 5
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                  2
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## 7
## 8
          -1
                  -1
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## 9
           2
                   2
                         2
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                        0
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                                                  0
     cn_BIRC5 cn_CBX2 cn_NPTX1 cn_NOTUM cn_CLUL1 cn_ADCYAP1 cn_MYOM1 cn_DLGAP1
## 1
          0 0 0 0 0 0 0 0
## 2
                        1
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                                      0
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          1
                 1
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## 4
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## 5
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## 6
          2
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          0
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## 7
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## 8
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## 9
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##
     cn_LAMA1 cn_CIDEA cn_CXADRP3 cn_ANKRD30B cn_GREB1L cn_LAMA3 cn_AQP4 cn_CHST9
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## 1
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## 2
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## 3
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## 4
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          0
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## 8
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          1
                  1
                           1
                                     1
## 9
          1
                  2
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## 10
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     cn_CDH2 cn_DSC3 cn_DSC1 cn_DSG1 cn_DSG3 cn_NOL4 cn_SLC39A6 cn_SLC14A2
## 1
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## 2
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## 3
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## 4
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## 5
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## 6
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## 8
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## 9
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## 10
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     cn_SIGLEC15 cn_MAPK4 cn_CCDC68 cn_ONECUT2 cn_GRP cn_SERPINB5 cn_SERPINB3
         0 0 0 0
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## 2
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## 3
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## 4
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## 5
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## 6
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## 8
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## 9
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                                     0 0
## 10
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##
     cn_SERPINB7 cn_SERPINB2 cn_CDH7 cn_CDH19 cn_CBLN2 cn_NETO1 cn_GZMM cn_HCN2
                                  0 0
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## 1
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## 2
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## 3
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## 4
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## 6
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## 7
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## 8
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## 9
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## 10
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     cn_AZU1 cn_LPPR3 cn_CFD cn_KISS1R cn_CELF5 cn_ZFR2 cn_LRG1 cn_PLIN4 cn_PLIN5
## 1
        1 1 1 1 1 1 1 1 1
## 2
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## 3
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## 4
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## 5
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## 6
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## 7
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## 8
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                              -1
## 9
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## 10
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                                                          0
     cn_FUT3 cn_FUT6 cn_CAPS cn_PCP2 cn_FCER2 cn_FBN3 cn_MUC16 cn_P2RY11 cn_ICAM5
## 1
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                1 1 1 1
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## 2
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## 3
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## 5
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## 7
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## 8
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## 9
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     cn_MAST1 cn_PALM3 cn_SLC1A6 cn_CASP14 cn_PGLYRP2 cn_CYP4F22 cn_CYP4F8
##
## 1
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                               1 1 1
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## 2
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## 3
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## 4
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## 5
         0
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## 7
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## 8
          -1
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## 9
          -1
                  1
## 10
          0
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                                                    0
     cn_CYP4F3 cn_CYP4F12 cn_UCA1 cn_CYP4F11 cn_NWD1 cn_CPAMD8 cn_B3GNT3
## 1
           1
                 1
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                                                1
## 2
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## 3
          -1
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                                   -1
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## 5
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## 6
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## 7
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## 8
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## 9
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## 10
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     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
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## 3
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## 4
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                                        -1
## 5
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## 6
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## 7
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## 8
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## 9
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                                                      0
     cn_SBSN cn_UPK1A cn_HSPB6 cn_APLP1 cn_PPP1R14A cn_C19orf33 cn_RYR1 cn_LGALS7
## 1
         1 1 1
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## 2
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## 3
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## 4
         -1
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## 5
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## 6
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## 7
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## 8
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## 9
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         0
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                        0
                                0
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                                                   0
                                                          0
## 10
     cn_LGALS7B cn_NCCRP1 cn_DLL3 cn_FCGBP cn_CNTD2 cn_MIA cn_CYP2A6 cn_CYP2A7
##
            1 1 1 1
                                       1 1 1 1
## 2
            0
                    0
                           0
                                  0
                                         0
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                                                                0
## 3
            1
                    1
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## 4
            2
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## 6
## 7
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## 8
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## 9
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                    1
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## 10
            0
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                                                       0
     cn_CYP2B7P1 cn_CEACAM7 cn_CEACAM5 cn_CEACAM6 cn_CD79A cn_ATP1A3 cn_KCNN4
## 1
           1 1 1
                                   1 1 1
                      0
## 2
             0
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## 3
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2 2
0 0
## 4
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## 5
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## 6
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## 7
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## 8
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                                    -1
                                          -1
## 9
         1
                1
                       1
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                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
           0
## 2
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## 3
       1
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## 4
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## 5
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## 6
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## 7
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       1
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## 8
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## 9
            2
                 -1
                       -1
                            -1
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                                  1
                                            1
## 10
            0
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                       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
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## 2
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## 3
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## 4
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## 5
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## 6
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## 7
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## 8
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## 9
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## 10
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   cn_TNNI3 cn_SYT5 cn_COX6B2 cn_NLRP5 cn_PEG3 cn_ZSCAN1 cn_DEFB132 cn_RSP04
      1 1 1 1 1 1
## 1
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## 2
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## 3
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                  2
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## 4
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## 5
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## 6
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## 7
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## 8
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## 9
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## 10
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   cn SIRPG cn TGM3 cn ADAM33 cn SPEF1 cn PRND cn CHGB cn FERMT1 cn PAK7
     1 1 1 1 1 1
## 1
## 2
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## 3
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## 5
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## 7
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## 8
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## 9
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   cn_SNAP25 cn_FLRT3 cn_PCSK2 cn_PTPRT cn_BCAS1 cn_CYP24A1 cn_BMP7 cn_PCK1
                        1 1 1 1
     1 1
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## 2
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## 3
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## 5
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## 6
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## 7
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## 8
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## 9
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## 10
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   cn_ZBP1 cn_C2Oorf85 cn_APCDD1L cn_ZNF831 cn_EDN3 cn_GATA5 cn_COL9A3
## 1
    1 1 1 1 1 1
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## 2
       0
## 3
       2
               2
                     2
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                                 2
                                       2
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   cn EEF1A2 cn SRMS cn MYT1 cn ABCC13 cn CXADR cn CHODL cn NCAM2 cn B3GALT5
## 1
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    cn_C21orf88 cn_FAM3B cn_TMPRSS2 cn_UMODL1 cn_S100B cn_CECR7 cn_CECR2
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   cn_CDC45 cn_PRODH cn_SLC7A4 cn_TBX1 cn_PRAME cn_VPREB3 cn_MMP11 cn_GSTT1
     0 0 0 0 0 0
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## 10
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## cn_MY018B cn_SEZ6L cn_NEFH cn_SEC14L2 cn_INPP5J cn_PLA2G3 cn_SLC5A1
     0 0 0 0 0 0 0
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       cn_TMPRSS6 cn_ELFN2 cn_LGALS2 cn_SOX10 cn_APOBEC3B cn_CACNA1I cn_SEPT3
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##
       cn_SERHL2 cn_SCUBE1 cn_MPPED1 cn_SULT4A1 cn_PNPLA3 cn_PHF21B cn_UPK3A
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##
       cn_SMC1B cn_WNT7B cn_KLHDC7B cn_MAPK8IP2 cn_MLC1 mu_ANK3 mu_GATA3 mu_HECTD4
## 1
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##
       mu_LRBA mu_LRP2 mu_SYNE1 mu_CDH1 mu_MGA mu_MUC16 mu_ZFHX4 mu_LAMA2 mu_MLL3
## 1
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## 10
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       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
##		0		0	0	0		0	0	0		0
##		0		0	0	0		0	0	0		0
##										_CSMD1 mu	CHRN	
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##			0	0		0		0	0	0	0	0
##			0	0		0		0	0	0	0	0
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##			0	0		0		0	0	0	0	0
##	10		0	0		0		0	0	0	0	0
##			mu_GOLGA			mu_MUC				mu_USH2A	mu_AH	
##		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
##	9	0		0	0		0	(0 0	0		0
##	10	0		0	0		0	(0 0	0		0
##		mu_CDH23	mu_CEP35	0 mu_Dl	VAH1 mi	u_DNAH7	mu_H	ERC2 1	mu_IGSF10	mu_KAT6B	mu_PI	K3CA
##	1	_ 0		0 -	0	_ 0		0	- 0	_ 0	_	0
##		0		0	0	0		0	0	0		0
##		0		0	0	0		0	0	0		0
##		0		0	0	0		0	0	0		0
##		0		0	0	0		0	0	0		1
##		0		0	0	0		0	0			1
##		0		0	0	0		0	0	0		0
##		0		0	0	0		0	0	0		1
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##	10									HX3 mu_SP	EN mii	
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##		0	0)	0	0		1	0	0	0
##	10	0	0	()	0	0		0	0	0	0

##		mu MUC4	mu OBSCN	mu MUC20	mu ODZ4	mu ZAN	mu AKAP9	mu_DNAH12	2 mu DN	IAH5
##	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	1	()	0
##	7	0	0	0	0	0	0	()	0
##		0	0	0	0	0	0	()	0
##		1	0	0	0	0	0	()	0
##	10	0	0	0	1	0	0	(0
##	4	mu_KIF26	_	_	_		_	DNAH17 mu_	_	_
##			0	0	0	0	0	0	0	0
##	2		0	0	0	0	0	0	0	0
##			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
##			0	0	0	0	0	0	0	0
##			0	0	0	0	0	0	0	0
##			0	0	0	0	0	0	0	0
##	10		0	0	0	0	0	0	0	0
##		mu_SVEP1	mu_ANK1	mu_CROCCI	2 mu_MTO	OR mu_L	AMA1 mu_M	ST1P9 mu_F	CNT mu	_SCN2A
##	1	C	0		0	0	0	0	0	0
##	2	C	0		0	0	0	0	0	0
##	3	C	0		0	0	0	0	0	0
##	4	C) 1		1	1	0	0	0	0
##	5	C	0		0	0	1	1	1	1
##	_	C			0	0	0	0	0	0
##		1			0	0	0	0	0	0
##		C			0	0	0	0	0	0
##		C			0	1	0	0	0	0
## ##	10	mıı TTN m		יי טאאכטח.	0 1 mm OTO	0 ~: m:: Ti	0 MDC6D mil 1	0 NF1 mu_PCI	0	0 DAMTCI 1
##	1	0	14_DNA110 11	iu_DiNC2ii.)	_	3L mu_11	0	0	.0 mu_H	0
##	2	0	0	()	0	0	0	0	0
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##		0	0	()	0	0	0	0	0
##		1	0)	0	0	0	0	0
##	6	0	1	-	1	1	1	0	0	0
##	7	0	0	()	0	0	1	1	0
##		0	0	()	0	0	0	0	0
##		0	0)	0	1	0	0	0
##	10	0	0)	0	0	0	0	0
##		mu_CACNA						1 mu_TP53E		
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## 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1
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## 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1
## 10 0	
## mu_FLG mu_FMN2 mu_UBR4 mu_GPR98 mu_PKHD1 mu_PTEN mu_VPS13D mu_ANK2 mu_H ## 1 0	
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## 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0
## 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0
## 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0
## 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0
## 7 0 0 0 0 0 0 0 0 0	0
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## 8 0 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
## mu_FAM157B mu_SRCAP mu_CMYA5 mu_BRWD1 mu_HSPG2 mu_RP1 mu_RUNX1 mu_TBP	
## 1 0 0 0 0 0 0 0 0	
## 2	
## 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
## 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
## 6 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	

## ##			0	0	0	0		0	0	0	0
##	10	mu WDR52			-		RAS1				2 mu_DNHD1
##	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
##		0	0	0	0		0	0	0		0
##	_	0	0	0	0		0	0	0		0
##	7	0	0	0	0		0	0	0		0 0
##		0	0	0	0		0	0	0		0
##		0	0	0	0		0	0	0		0
##	10	0	0	0	0)	0	0	0	(0
##		mu_XIRP2	mu_ANKRD	30BL mu_	CBFB mu	_PDE3A	A mu_	CACNA1A	mu_THSD	7B mu_ABCA	A13 mu_EYS
##		0		0	0	C)	0		0	0 0
	2	0		0	0	(0		0	0 0
	3	0		0	0	(0		0	0 0
## ##		0		0	0	(0		0	0 0
##		0		0	0	(0		0	0 0
##		0		0	0	(0		0	0 0
##	8	0		0	0	C)	0		0	0 0
##	9	0		0	0	C)	0		0	0 0
##	10	0		0	0	C		0		0	0 0
##							ı_FOX	_		CACNA1E mu	
## ##			0 0))	0		0	0	0	0
##			0 0		0	0		0	0	0	0
##			0		0	0		0	0	0	0
##	5	(0 0	(0	0		0	0	0	0
##	6	(0 C	(0	0		0	0	0	0
##	7	(0 0	(0	0		0	0	0	0
##			0		0	0		0	0	0	0
##			0 0		0	0		0	0	0	0
## ##	10		O		O mii MT.T.	0 . mii P0	NXI.2	O mii PRKI	0 OC mii ST	0 mii PTPRR	0
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##		0	0	0	0)	0)	0 0	0	
##	3	0	0	0	0)	0)	0 0	0	
##		0	0	0	0)	0		0 0	0	
##		0	0	0	0		0		0 0	0	
##		0	0	0	0		0		0 0	0	
## ##		0	0	0	0		0		0 0	0	
##		0	0	0	0		0		0 0	0	
##		0	0	0	0		0		0 0	0	
##		mu_CACNA:	1C mu_CSP	P1 mu_PR	EX2 mu_	SMG1 n	nu_UB	R5 mu_K	IAA1210 1	mu_COL6A3	mu_ODZ1
##			0	0	0	0		0	0	0	0
##			0	0	0	0		0	0	0	0
##			0	0	0	0		0	0	0	0
## ##			0	0	0 0	0 0		0	0	0	0 0
##			0	0	0	0		0	0	0	0
##			0	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
##				3 mu_ASTN1	mu_CACI						
##		(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 7	(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 0		0		0	0	0	0
##	10			mu_GRIN2A	mıı KTA						
##	1	mu_DINOII	0 0		ma_KIA	0		0	na_Lna (0
	2		0 0			0		0	(0
##	3		0 0			0		0	(0
	4		0 0			0		0	(0
	5		0 0			0		0	(0
##	6		0 0	0		0)	0	()	0
##	7		0 0	0		0)	0	()	0
##	8		0 0	0		0)	0	()	0
##	9		0 0	0		0)	0	()	0
##	10		0 0	0		0)	0	()	0
##		mu_MYO18E	3 mu_RYR1	mu_SDK1 mu	_STARD9	mu_E	RBB2 mi	u_SETD2	mu_VCA	AN mu_WI	DFY3
##	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
	6	(0	0		0	0		0	0
	7	(0	0		0	0		0	0
	8	(0	0		0	0		0	0
##		(0	0		0	0		0	0
## ##	10	(m., ATM m.		0 VPS13B mu_	0 	DMAH	0	O CVNEO m	, MADOL	0 74 mii Ti	0
##	1	0	1_01KN mu_ 0	0 0	0	_DIVAL	0	0	u_riar zr	0	0
##		0	0	0	0		0	0		0	0
##		0	0	0	0		0	0		0	0
##		0	0	0	0		0	0		0	0
##		0	0	0	0		0	0		0	0
##		0	0	0	0		0	0		0	0
##		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 m	u_ALMS1	mu_I	TPR2 mu	u_TBX3 1	nu_F8 n	nu_AKD1	mu_ERBB3
##	1	0	0	0	0		0	0	0	0	0
##		0	0	0	0		0	0	0	0	0
##		0	0	0	0		0	0	0	0	0
##		0	0	0	0		0	0	0	0	0
##		0	0	0	0		0	0	0	0	0
##	6	0	0	0	0		0	0	0	0	0

```
## 7
                                    0
                                                                   0
## 8
               0
                          0
                                    0
                                               0
                                                          0
                                                                   0
                                                                                    0
                                                                                              0
                          0
## 9
                                    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
## 2
               0
                           0
                                         0
                                                0
                                                            0
                                                                       0
                                                                                            0
## 3
                           0
                                                            0
                                                                                 0
                                                                                            0
               0
                                         0
                                                0
                                                                       0
## 4
               0
                           0
                                         0
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                                                            0
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## 5
               0
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                                                                       0
                           0
                                                            0
                           0
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## 7
               0
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## 8
               0
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## 9
               0
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                                                                       0
## 10
               0
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                                         0
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                                                            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
                                                                     0
## 3
               0
                          0
                                    0
                                              0
                                                          0
                                                                                 0
                                                                                            0
                          0
                                    0
                                              0
                                                                     0
## 4
               0
                                                          0
                                                                                            0
## 5
               0
                          0
                                    0
                                              0
                                                          0
                                                                     0
                                                                                            0
## 6
                          0
                                              0
                          0
                                                                     0
## 7
               0
                                    0
                                              0
                                                          0
                                                                                            0
## 8
                          0
                                    0
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                          0
                                    0
## 9
               0
                                              0
                                                          0
                                                                     0
               0
                          0
                                    0
                                              0
                                                          0
                                                                     0
                                                                                 0
##
       mu_BCORL1 mu_APC mu_PRUNE2 mu_GON4L mu_SPHKAP mu_SACS mu_MYCBP2 mu_DOCK11
## 1
                0
                        0
                                    0
                                               0
                                                           0
                                                                    0
                                                                                0
                0
                                    0
                                               0
                                                           0
                                                                    0
                                                                                0
## 2
                         0
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## 3
                0
                         0
                                    0
                                               0
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## 4
                0
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## 5
                0
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                                                           0
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## 6
                0
                         0
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## 7
                0
                         0
                                    0
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                                                                                0
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                                    0
                                               0
                                                           0
                                                                                0
## 8
                0
                                                                    0
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## 9
                0
                         0
                                    0
                                               0
                                                           0
                                                                    0
                                                                                0
                                                                                            0
## 10
                         0
                                    0
                                               0
                                                           0
                                                                    0
                                                                                0
##
       mu_FBN1 mu_DNAH11 mu_PIWIL1 mu_SCN1OA mu_ATRX mu_PKHD1L1 mu_MAP1A mu_DNAH9
## 1
              0
                          0
                                     0
                                                 0
                                                           0
                                                                        0
                                                                                   0
                                                                                             0
## 2
              0
                          0
                                     0
                                                 0
                                                           0
                                                                        0
                                                                                   0
                                                                                             0
## 3
              0
                          0
                                     0
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                                                                        0
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                          0
                                                                        0
## 4
              0
                                     0
                                                 0
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                                                                                             0
## 5
              0
                          0
                                     0
                                                 0
                                                           0
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                                                                                   0
                                                                                             0
## 6
              0
                          0
                                     0
                                                 0
                                                           0
                                                                        0
                                                                                   0
                                                                                             0
## 7
                                     0
                                                 0
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              0
                          0
                                     0
                                                 0
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                                                                        0
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                                                                                             0
## 8
## 9
              0
                          0
                                     0
                                                 0
                                                           0
                                                                        0
                                                                                             0
## 10
              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
                       0
                             -0.065364828
## 1
              0
                                                     -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
                                                             -0.471547732
## 7
            0
                    0
                                               0.28594084
                          0.366998485
## 8
            0
                    0
                         -0.085165132
                                               0.09716346
                                                              0.076269356
## 9
            0
                    Λ
                          0.058627119
                                                              0.007516144
                                               0.15964071
##
            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
                                                            0.08157867 -0.03445841
##
  6
     -0.19308752
                       0.19592457
                                            0.62670045
##
  7
      -0.55751355
                      -0.04136079
                                           -0.52789428
                                                           -0.06324707 -0.68919758
       0.65210682
                                                            0.15046063 -0.20175370
## 8
                      -0.13010318
                                           -0.24684004
## 9
       0.58061649
                       0.07903776
                                                            0.17971889
                                                                        0.64091927
                                           -0.18644151
##
  10 -0.06389331
                      -0.34825317
                                           -1.02434015
                                                           -0.08844626
                                                                         0.37365024
##
                                    pp_ACC1 pp_ACC.pS79
         pp_A.Raf pp_A.Raf.pS299
                                                            pp_ACVRL1
                                                                          pp_ADAR1
       0.02394264
##
                     -0.22095946
                                  0.2002684
                                             0.64356026 -0.195641959 -0.06495332
  1
     -0.15813260
                      0.27348271
                                  1.4183413
                                             1.56964667
                                                          0.023644325 -0.54058572
##
  2
##
  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
      -0.07959337
                      0.32048653 -0.8139026 -1.17342335
                                                          0.246159139 -0.33431135
## 5
      -0.37273542
                      0.22712512 -0.2077252
                                             0.02123607
                                                          0.413238451 -0.02050406
## 6
                     -0.03049959 -1.3061969 -0.94213727
##
  7
      -0.19960129
                                                          0.569494409 -0.56495866
                      0.17244976 -0.5964836 -0.35998145
## 8
     -0.06574055
                                                          0.025485821 0.20350491
  9
       0.15963930
                      0.08411845 -0.2506286 -0.31762833
                                                          0.060604905 0.14634571
##
      0.10841015
                      0.09599420 -0.1413607 -0.33002883 -0.129556683 -0.12865614
  10
                                                  pp_ARID1A
                                                                 pp_ASNS
##
      pp_AMPK.alpha pp_AMPK.pT172
                                         pp_AR
##
                                   1.49818596 -0.182144786 -0.422909192
  1
         0.20898164
                      -0.16880116
## 2
         0.37189418
                       0.17547671
                                   0.18558628 -0.383595091 -0.033450831
##
  .3
        -0.14762329
                      -0.30299801
                                   ##
         0.73456681
                       0.95740979
                                   0.01493394 -0.095048166 -0.004865362
## 5
         0.07282012
                      -0.53410994 -0.05198875 -0.017210186 -0.258941206
        -0.13516549
                       0.73216799 -1.44430485 -0.200231345
##
  6
                                                             0.400733899
##
        -0.30988347
                      -0.45127993 -0.37851463
                                                0.069454404
                                                             0.279215129
## 8
                      -0.21621336 -1.43203563
                                               0.002789937
        -0.34089418
                                                             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
       0.72481274
## 1
                                   0.4559400
                                             0.12486607
                                                            0.2599979
                                                                         0.20566702
       0.05717866
                                             0.33335477
##
  2
                                  -0.4435080
                                                            0.5647363
                                                                         0.54081705
##
       0.17395074
                                   0.6205105 -0.02309007
                                                           -0.3911676
                                                                         0.07028882
  .3
##
  4
      -0.12613384
                                   1.2084262
                                             0.20706285
                                                           -0.4860200
                                                                        -0.39668867
                                  0.2798857 -0.01190758
##
  5
     -0.47947592
                                                            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_B.Raf pp_B.Raf.pS445
                                        pp_Axl
## 1
                                   0.07075709
       0.22295913
                     -0.108861304
                                                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
                   0.203457013
## 6
       0.57537532
                   -0.297583664 0.03452057 -0.07228122
                                                      -0.301628684
                                                      -0.367780169
##
       0.69527148
                  -0.003933779 0.28696625 -0.67896247
                  -0.227316381 -0.16214446 -0.06197721
##
       0.13309384
                                                      -0.054035935
  8
##
  9
      -0.07220973
                   0.100943503 -0.01358423 -0.56064315
                                                      -0.138008001
##
  10
                   0.072602472 0.17329795 0.78652532
       0.34531487
                                                       0.442780167
                                             pp_Bak pp_Bap1.c.4
         pp_BRCA2
##
                     pp_BRD4 pp_Bad.pS112
                                                                   pp_Bax
                  0.02092266
## 1
      0.0858726615
                              0.17567338 -0.09245424 -0.03686402 -0.04807660
##
  2
     -0.3926060960 -0.72990137
                              0.44160130 0.04515320 -0.39747125 -0.09233984
                              0.18743310 -0.37545082 0.13341209 -0.03987291
##
      0.0681328220 -0.22358998
     -0.0003669697 -0.43536662
                              -0.0604999775 -0.19552622
                              0.22727945 -0.13793637 -0.31633607 0.13891871
##
  5
##
  6
     -0.0368781645
                  0.30081193
                              0.25565421 - 0.05247232 \ 0.33822573 - 0.17479737
##
      0.0565784670 -0.24444520
                             -0.04877635 0.05127210 -0.21390158 0.10960736
## 8
      0.1854597395 0.22005821
                              0.26784719
                                         ##
  9
      0.3748124745 0.92995571
                              ##
  10
     0.1307028188 0.57005840
                              0.14406690 0.36428286
                                                    0.25293439 -0.03505655
                            pp_Bcl2A1
##
                                                       pp_Bid
                                                                   pp_Bim
       pp Bcl.2
                 pp Bcl.xL
                                        pp_Beclin
      0.6067643 - 0.010951454 - 0.13126527 - 0.080541592 - 0.093600797
##
                                                              0.400727499
  1
##
      0.3938599 - 0.267080712 \quad 0.32044265 - 0.145822801 - 0.110421247 - 0.516197117
##
  3
      1.3312956 0.036586739 -0.05474367
                                      0.066244538 -0.089545460 0.749386916
      1.3155230 0.175159524 -0.09773933
                                      0.605909400 0.253021914 1.443654399
      0.1909340 -0.226223210 0.26921952
                                      0.005157979 -0.081418288 -0.195101586
## 5
                                      0.013469582 -0.308193627 -0.499151864
     -0.8911345 -0.332052537 -0.33115201
## 7
      0.1950642 0.009396503 0.64503254
                                      -0.4406522 -0.180598591 -0.14380853
                                      0.083838143 -0.310150955 0.069284391
                                      0.146217247 -0.003529167 -0.349317649
##
     -0.1930884 -0.053755367 -0.06555674
  9
     1.2949097 -0.280216815 -0.22685875
                                      0.012568627 -0.263752953 1.080512363
        pp_C.Raf pp_C.Raf.pS338
                                              pp_CD26
##
                                  pp_CD20
##
     -0.11048082
                   0.084132130 -0.246713332 -0.102900107 -0.07468662
  1
##
  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
      0.04468392
                   ## 5
  6
     -0.21798191
                  -0.303761688 -0.038143034 -0.122703791 -0.01667075
##
                   ##
  7
      0.18331426
## 8
      0.35021699
                   0.008595455 0.077874259 -0.259702475 -0.01119753
## 9
     -0.11286671
                   0.08971673
                   0.014397070 -0.037039992 -0.117686313 0.09780045
##
                     pp_CDK1 pp_CDK1.pY15
                                             pp_COG3 pp_Caspase.3
         pp_CD49b
     -0.0002175045 -0.07035675 0.178316318 0.104321491 -0.099492953
  1
      0.1384957545  0.20267968  -0.176800397  0.031154087  -0.227858992
##
  2
      0.4777961260 - 0.28390797 - 0.477835487 - 0.097603485 - 0.426690472
  3
     -0.3696545087 -0.39243762 -0.115604073 0.163207507 -0.196326751
     -0.2010816635 -0.26610778 -0.020884992 -0.099378715
                                                    0.055861342
      0.3636887130 - 0.30927844 \ 0.323904893 - 0.271787950 - 0.002534612
## 6
##
      0.2213695330
                  0.34692991 -0.129219962 -0.763838395
                                                     0.161264012
## 8
     -0.0892078885
                  0.35403400 0.794832835 -0.225949605
                                                     0.236464583
     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
                                                -0.1004651 0.07131909
                                  0.04211046
## 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
                                                -1.0073203 0.02834769
                   -0.15261114
                                  0.14259702
## 10
                   -0.12426544
                                -0.12872254
                                                 0.3657138 -0.23031042
                                       pp_Chk2 pp_Chk2.pT68 pp_Claudin.7
##
      pp_Chk1.pS296 pp_Chk1.pS345
##
       -0.151880202
                      -0.09145725
                                    0.20927364
                                                -0.13724175
                                                              0.05199285
  1
##
  2
       -0.238308639
                      -0.08846210
                                   0.00224269
                                                 0.01681267
                                                             -0.38851257
##
  3
       -0.352920969
                      -0.07861823 -0.22614202
                                                -0.35906199
                                                             -0.01905699
                      -0.01220812
## 4
       -0.005763171
                                   0.48534488
                                                -0.10059388
                                                              0.41709893
## 5
       -0.024216761
                      -0.21855118 -0.20567059
                                                -0.02703191
                                                             -0.25355413
                                                              1.53171891
## 6
        0.291673806
                      -0.21279724 0.63985749
                                                 0.09564483
## 7
                       0.06758853 -0.35220598
        0.366988872
                                                 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
##
           0.3963137
                       -0.7744902
                                    -0.32520097
                                                 -0.09997244
                                                              -0.31375211
##
  2
          -0.9190238
                       -1.5930881
                                   -0.33613269
                                                 -0.09777761
                                                              -0.22556170
## 3
                        0.5755877
                                                  0.34073801
           0.7492401
                                     0.15051218
                                                              -0.18889169
## 4
          -0.3019552
                       -0.4126847
                                     0.25877741
                                                 -0.35434474
                                                              -0.11917279
## 5
           0.7819548
                       -1.2298663
                                     0.01193955
                                                 -0.20775655
                                                               -0.37343650
                                                  1.15224008
## 6
          -1.1544152
                        0.1919503
                                   -1.12035869
                                                              -0.06881072
  7
           1.6846418
                       -0.7802457
                                     0.18073467
                                                 -0.07229226
                                                              -0.20397497
                        1.3387286
                                   -0.23192391
## 8
          -0.2211391
                                                  1.12792394
                                                                0.34316186
## 9
          -0.1280647
                        1.5379546
                                   -0.03698950
                                                  1.09947256
                                                                0.45290185
                                                                0.26714066
## 10
                                   -0.07401878
                                                -0.14591502
          -0.2418167
                       -0.2768945
                      pp_DJ.1
                                  pp_DUSP4
                                               pp_Dvl3 pp_E.Cadherin
##
        pp_DIRAS3
                                                                          pp_EGFR
## 1
       0.05655131
                   0.07483597 -0.27459424 -0.20829183
                                                          0.87664084 -0.08578614
##
      -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
                                                          0.61557666 -0.16716324
## 4
       0.22228219
                   0.61317477
                               0.73780223 -0.05368339
## 5
       0.08762926
                  0.29967993
                               0.04455419
                                            0.00290026
                                                         -0.12790428 -0.03347705
       0.16988048 -0.52775008 0.27655770
                                                          0.15321315 0.81024243
## 6
                                            0.10634080
       0.57162695 -0.12344006 -0.21631214 -0.28748601
                                                         -0.02940695 0.64296324
     -0.02552791 -0.19660743 -0.11672006
                                            0.19807904
                                                          0.24463022 -0.05184073
## 8
       0.33668108 -0.27312678 0.04744369
                                                          -0.56052563 0.02908340
##
  9
                                            0.36627514
  10 -0.04896224 -0.02081350 -0.04331126 0.39681992
##
                                                          0.23285751 -0.24301542
                                         pp_ENY2
                                                    pp_EPPK1 pp_ER.alpha
      pp_EGFR.pY1068 pp_EGFR.pY1173
## 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
                        -0.05168591 -0.07156515
                                                  2.29711562
## 5
        -0.022660595
                                                               -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_ERCC1
                                         pp_ERCC5
##
      pp_ER.alpha.pS118
                                                       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
                                               0.003335467 -0.217122164
## 5
          -0.511966240 -0.06838173 0.103777539
          -0.253405286 0.03219844 -0.290146625 0.168519600 -0.061140536
## 6
## 7
          -0.384777591 0.08247908 -0.791139171 -0.313369551 0.070725646
## 8
          -0.165616279 -0.05318772 0.250749430 -0.032335328 -0.005183091
          -0.009769749 0.13733935 -0.213346681 -0.082900319 -0.144087247
          -0.061656454 -0.13676201 0.148456910 -0.064253875 -0.442374316
## 10
##
         pp_FASN
                  pp_F0X03a pp_F0X03a.pS318.S321 pp_Fibronectin
                                                                 pp FoxM1
     -0.17954041
## 1
                 0.08904207
                                      0.03505214
                                                   -0.47883017 -0.3166855
  2
      3.15488081
                 0.13873152
                                      0.19060873
                                                   -0.04920369 -0.7127218
      0.56310854 0.13196747
                                                    0.03441632 0.1232605
##
  3
                                      0.01198384
##
      0.66540286 -0.05065397
                                      0.14199406
                                                   -0.26614115 -0.2695481
     -0.84005014 0.11487754
## 5
                                      0.12448302
                                                    1.50534095 -0.3359246
     -0.04126093 -0.15293150
                                      0.20013290
                                                    0.12855983
                                                               0.7729597
## 6
## 7
     -1.07466471 0.22725042
                                      0.23111485
                                                   -0.22136485
                                                               0.1503556
                                                               1.7647437
## 8
     -1.15017858 0.13812187
                                      0.23353232
                                                   -0.32151384
     -1.04300140 -0.17211679
                                      0.02530709
                                                    0.66371843
                                                               0.6372415
  10 -0.17564167 0.47724869
                                                    0.75477644 -0.1208934
##
                                      0.01681754
         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
      0.47187269 - 0.2601021 - 0.34515082 - 0.3651798 - 0.114966779 - 0.27654924
      0.64079184 2.2759344 0.24299811 0.3229709 -0.080606272 -0.33181413
## 3
     -0.25904280 2.2489167 -0.35876799
                                       1.4806773 -0.217306142 0.02540851
     -0.11832132 -0.2597954 0.06920744 -0.2454039
                                                 0.098802411 -0.33773087
      0.51855246 -0.1596498 2.43379044 -1.2098441
                                                  0.188483821 0.64517318
     -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
     0.75731245
## 9
## 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
            0.023683938
                                        0.7554720 0.06350052 0.092221197
## 3
           -0.053730361
                                        0.3771813 0.58735608
                                                             0.076133236
## 4
                                        0.1972166 0.31133500 -0.699090459
## 5
            0.069661444
## 6
            0.936712458
                                        0.3079980 -0.10284368 -0.269395396
## 7
           -0.461734700
                                       -0.7834693 -0.52403979 -0.994262119
                                        ## 8
           -0.060355949
                                       -0.5335123 -0.50039565 -0.946664497
## 9
           -0.039868048
                                       -0.1407685 -0.27471243 0.168442918
            0.208497453
                       pp_HER3 pp_HER3.pY1289
                                               pp_HSP70 pp_Heregulin
##
     pp HER2.pY1248
## 1
        0.092700716 0.31701842
                                 0.464954088 -0.15239774
##
  2
                                  0.301291824 -0.3322930 0.006104715
## 3
       -0.002081353 0.26882827
                                 -0.097325397 0.52399581
                                 -0.151235632 -0.1290518 -0.158664287
## 4
## 5
       -0.184336187 -0.35773900
                                 -0.039213616 -0.1475781 -0.146547897
## 6
       -0.287434361 0.03754366
                                 -0.073100825 -1.5091114 0.261899516
        0.143154512 -0.38023475
## 7
                                  0.563742158 2.1600936
                                                         0.179103944
## 8
       -0.218922510 0.03605956
                                  0.005707929 -0.5312281
                                                        0.155514155
       -0.429778720 -0.62800032
                                  0.323940005 -0.6435061 0.220545231
## 9
## 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
## 3
                0.03352646 -0.32719754 1.2892818 -0.22080521 0.63049880
## 4
               -0.13425862 1.82794441 0.5606222 -0.06811162 0.08262886
                0.23810706 -0.70132892 0.7549021 -0.13564827 -0.22772700
## 5
## 6
               -0.13768058 -0.80095293 -0.7430863 -0.41038129 -0.36271261
                0.49071191 -0.53754058 -0.8575171 0.06829855 0.25788115
## 7
               -0.11680487 -0.61051023 -1.6199629 -0.03188128 -0.26665384
## 8
                0.09619356 -0.09055814 -1.4831958 -0.11833429 -0.08195011
## 9
## 10
               -0.06703920 1.12768545 0.7834664 -0.25240362 0.33662227
##
         pp_JAB1
                     pp_JNK2 pp_JNK.pT183.pY185
                                                  pp_Jak2
##
     -0.12794430
                  0.08539105
                                    0.54800975 -0.19492790
                                                           0.05169053
  1
      0.01936778
                  0.21199496
                                    1.13981445 -0.20324679 0.16693397
##
  2
##
  3
     -0.11173334
                  0.11849615
                                   -0.22615440 -0.49161500 -0.41085955
                                    0.27922479 -0.24045119 -0.09596730
     -0.17191558 0.22131479
      0.10201878 -0.10887411
                                    0.64801289 -0.47243051 -0.54486938
## 5
## 6
      0.26310413 0.02715311
                                   -0.42124548 0.17179076 0.42327256
      0.20171474 -0.36282459
                                    0.16534466 -0.26275052 -0.75884165
## 7
## 8
      0.05617358 -0.01957285
                                   -0.08093079 -0.50428402
                                   -0.32306686 0.14498378 -0.07720852
##
  9
##
  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
                                     0.2533284 -0.167328738
                   0.3743666
                                                                -0.0620358540
      0.096056980
                   0.1225634
                                     1.0962637 0.335460806
## 2
                                                                 0.2237888330
      0.007246645
                  0.4896252
                                    -0.4659902 0.408592356
## 3
                                                                 -0.0439939385
                                     0.5035503 0.372550141
## 4
      0.059274377 -0.2590017
                                                                 0.0003669698
## 5
      0.065317632
                  0.3011218
                                     1.6634350
                                               0.301977359
                                                                 1.0556545880
## 6
      0.038885940
                   0.2426300
                                    -1.4943153 0.049634658
                                                                 -0.1316010245
##
      0.346640181
                   0.8944774
                                    -0.2119542 -0.008557181
                                                                 0.1075475865
     -0.126555123
                  0.1726393
                                    -0.1486354 -0.320948604
                                                                -0.0303082700
## 8
     -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
     -0.09248463 0.1481420
                            0.0002175045
                                          0.90676409 -0.067025458
                                                                   -0.25940914
     -0.06127330 -0.3802139 -0.2517743420
                                          0.19732799 -0.064646414
                                                                   -0.12606463
      0.10717896 0.1033122
                            0.0746300970
                                          2.39676028 0.024091306
                                                                   -0.24012453
     -0.10224453 0.1624802
                            0.1243553502
                                         0.51812130 -0.050688032
## 4
                                                                   -0.31284061
      0.04640755 -0.3568487 -0.5794144665 -0.12112145 0.140240342
                                                                    0.13900038
     -0.25447781 1.2132650 1.6295601255 0.52191042 -0.280857435
                                                                   -0.09219563
## 6
     -0.06135716 -0.1525921 -0.4321867540 2.00432043 0.553647401
                                                                   -0.27120263
     -0.05858763 1.2074159
                            1.5032784235 -0.67090123 -0.144699903
## 8
                                                                    0.08138467
                            1.5441579035 -0.08588978 -0.000773182
      0.48796723 1.2310354
                                                                    0.19089850
  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
                            -0.17118343 0.06392735
## 3
              -0.10155079
                                                     -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
                           -0.23770277
                                        0.18446064
## 8
               0.24628600
                                                       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
              -0.021193046 -0.4280575
                                                 0.068744239 1.0890951
## 3
              0.4124852 -0.51478182 0.111640771
              ## 4
                                                -0.167802915
                                                             0.4379381
## 5
              0.7428530 -0.26684160 -0.008047096
                                                -0.053983832
                                                              1.0825358
              0.4489806 0.74730101 0.170615840
## 6
                                                 0.170209379 0.4092204
             -0.5946265 -0.41319300 0.457727767
                                                 0.318825258 -0.1064052
              0.9455794 -0.38637906 0.402983224
## 8
                                                 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
                                            0.54542703 -0.073717985
##
  1
      0.05193760
                    -0.07355652 -0.17631602
##
  2
     -1.17510577
                     -0.25285009 -0.10014155 0.08129156 -0.026898502
                                                       0.334506826
## 3
     -0.07870963
                    -0.45254613  0.18343984  -0.35141227
                     -0.04673304 -0.20830686 -0.62190575
## 4
     -0.01174822
                                                        0.171502080
## 5
     -0.34477200
                      0.09421257 -0.17422362 0.70270772
                                                        0.197561096
## 6
      1.13234942
                      0.25364944 -0.10225553
                                            1.01108125 -0.295321923
     -0.78669137
                      0.20937670 -0.05510044 0.10742285
                                                       0.012165616
## 7
                      0.38351461 0.17608519 -0.08695695
## 8
      0.67357964
                                                       0.004830304
## 9
      0.66055500
                      0.78268216
                                 0.34048635 -0.24043438 -0.285044067
##
  10 0.15719222
                      ##
     pp_PDK1.pS241
                      pp_PEA15 pp_PEA15.pS116 pp_PI3K.p110.alpha pp_PI3K.p85
                                                     0.14743279 0.17718467
## 1
        0.04397462 -0.106972959
                                  -0.13816746
                                                     0.18698052 -0.10188487
##
  2
       -0.11138710
                    0.284931659
                                   0.01388658
## 3
        0.39503062 0.357500510
                                  -0.02577309
                                                     0.25290368 -0.06043554
        0.16445400 0.933673120
                                   0.08281558
                                                    -0.15978341 0.08642008
        0.25928797 0.375866822
                                                    -0.03504323
## 5
                                  -0.09326634
                                                                0.16258521
##
  6
       -0.52194411 -0.462555763
                                   0.08916634
                                                     3.12748012
                                                                1.40430358
       -0.42103779 -0.297897270
## 7
                                   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
                                            0.20636380
                          0.3188121
## 1
       0.17893554
                                                                   0.22640719
##
  2
       0.11764555
                          0.6858480
                                            0.10619297
                                                                   0.28535544
                                                                  -0.22794268
##
      -0.04602241
                          0.1008621
  3
                                           -0.15454358
## 4
      -0.36155981
                         -0.2926910
                                            0.12854478
                                                                   0.11669040
## 5
       0.49221228
                                                                   0.11723726
                          0.5070151
                                            0.03117670
## 6
      -0.08271871
                         -0.1698073
                                           -0.17686733
                                                                  -0.28303039
## 7
       0.40358848
                                            0.15974476
                                                                  -0.37741094
                          0.6132889
## 8
       0.40559798
                          0.4530719
                                            0.03429986
                                                                  0.35247706
## 9
      -0.10599303
                                                                  -0.62701626
                         -0.1308951
                                           -0.10305097
##
  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
      3.84908392
## 2
                     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
      0.15423204
## 5
                     0.020323164
                                 ## 6
      0.02538641
                     0.313502157
                                 0.10511116 -0.6753603 1.13531237 -0.33467781
                                 0.06154439 -0.4561459 -0.15420502 -0.14063495
##
  7
      0.19973259
                    0.006402324
## 8
     -0.04547767
                    ## 9
      0.05753048
                    0.152725271 -0.17373349 -1.0234915 0.56382611 0.16509525
                    -0.145454204 -0.07824969 0.8621954 0.15040836 0.02938369
## 10 -0.09514506
```

```
pp_Rab25
##
        pp RBM15
                    pp_Rab11
                                           pp_Rad50
                                                       pp_Rad51
                                                                  pp_Raptor
     -0.41676467 -0.10293244 0.11860664 0.13207103 -0.29770038
## 1
                                                                 0.28331623
     -0.30922656 -0.32033864 -0.11497878 -0.08193525 -0.06493066
                                                                 0.06104129
     -0.42236282 0.07931263 -0.49853512 0.04709717 0.04769199
                                                                 0.26839025
      0.63419955
     ## 5
                                                                 0.05619377
  6
      2.23718744 0.00000000 1.11126665 -0.44965367 0.01482293
                                                                 0.51016332
##
     -0.97096934   0.78411416   -0.37967843   -0.03560919
                                                    0.22539878 -0.22441466
      0.51266101 -0.39532156  0.32695684 -0.15323030
  8
                                                    0.33610668 -0.06447519
      1.03688919 -0.23245706 -0.02670863 -0.36928487
##
                                                    0.23327524
                                                                0.28783810
      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
##
      0.002349577
                         0.3351466
                                   0.19532527
                                                   0.18563373 -0.34124918
  1
##
  2
     -0.039601309
                         0.3860212 -0.21330703
                                                   -0.07338775 -0.48381669
     -0.138331152
                        -0.3133892
                                   0.60924756
                                                    0.05047383 -0.39418023
## 3
## 4
      0.380789209
                         0.2454520
                                   0.43406509
                                                    0.49354651 -0.02511998
                        -0.1034113 -0.31607711
                                                   -0.03140272 -0.59038850
## 5
     -0.081355976
     -0.586638980
                        -0.7061967
                                   0.01877240
                                                   -0.42171512 0.75129206
                                                    0.41842953 -0.34605193
                        -0.5219330
                                   0.43228015
##
  7
      0.514548175
## 8
     -0.263274986
                        -0.4602458 -0.04930488
                                                   -0.14982816 0.36282002
                                                               0.54348126
## 9
      0.041466560
                        -0.6481359 0.06093276
                                                   -0.11643909
  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
                            -0.7265941 -0.26462337 -0.118261872 -0.060414833
## 1
         -0.586693144
                            -0.1960326 -0.24767110 -0.059263025 -0.093825209
## 2
         -0.165293395
## 3
         -0.389490320
                            -0.6777059 -0.19128057
                                                   0.236741385 0.002676048
         -0.498278440
                            -0.4173393 -0.07543720
                                                   0.040710498 -0.090468838
## 4
## 5
          0.560116778
                             0.1656743 -0.16802559 -0.017880625 -0.117905861
                             0.3950913 0.03931597
                                                   0.003250929 -0.184008005
## 6
          0.352346164
         -0.349410463
## 7
                            -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
##
          0.249197425
                            pp_SLC1A5 pp_STAT3.pY705 pp_STAT5.alpha pp_Shc.pY317
##
     pp_SHP.2.pY542
##
         0.34444656 -0.21846332
                                   0.493888088
                                                  0.44216762
                                                               0.10369018
  1
## 2
         0.21022093 -0.45422989
                                                  1.42687361
                                                               0.38993252
                                   0.102849677
## 3
        -0.39969773 0.01572185
                                 -0.330343904
                                                 -0.42365406
                                                              -0.10813641
## 4
        -0.38973923 -0.58472583
                                  -0.205186850
                                                  0.05301033
                                                              -0.26149656
         0.28126324 -0.48465725
## 5
                                   0.219283879
                                                  -0.19765742
                                                               0.05199717
        -0.06708876 1.03626026
## 6
                                  0.058915168
                                                  0.11339499
                                                               0.14663065
        -0.01171302 -1.08162567
  7
                                  0.181667781
                                                  0.04995590
                                                               0.24523869
         0.07154364 -0.04785476
                                 -0.264210893
                                                  -0.05235168
## 8
                                                               0.08400771
## 9
        -0.19183392 -0.03894300
                                  -0.009781143
                                                  0.11029365
                                                              -0.15002616
        -0.15748954 -0.22737152
##
                                 -0.105475144
                                                  0.07423568
                                                              -0.20770281
  10
                                              pp\_Smad4
                                                          pp_Snail
                     pp_Smad1
         pp_Smac
                                 pp_Smad3
     -0.11260118 -0.098221624 -0.11847054 -0.0835856035 -0.24282136
## 1
                                                                   0.18960575
##
  2
     -0.07388310 \quad 0.212020685 \quad -0.04388837 \quad -0.0980532365 \quad -0.12088010 \quad -0.07262744
                 0.004713827 -0.01465256 0.0690710380 -0.29007257
     -0.23743383
                                                                    0.70702137
     -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
     -0.07725787 0.368180481 -0.39833880 -0.1957355730 -0.03827672 -0.55702093
##
  6
     -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_TFRC
##
     pp_Src.pY416 pp_Src.pY527 pp_Stathmin
                                                           pp_TAZ
                                               pp_Syk
       0.45751399
##
                     0.5263538
                              0.007085407 -0.3087868 0.006072318 -0.43074262
                     ##
       0.10652146
  2
##
  3
       0.12819699
                    -0.4574862 -0.067220978 -0.4104925 -0.055343295 -0.72189846
                    -0.27737672
## 4
                     0.6335510 0.018398148 -0.2146525 0.213260302 -0.26931767
## 5
       0.08065765
      -0.24941489
                    -0.4017056 -0.292363411 1.9452838 -0.132595098 0.03694840
## 6
##
  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
      -0.29391249
                    -0.5382789 -0.115455678 0.1423026 0.190509511 -0.75775861
##
  10
                      pp_TSC1 pp_Transglutaminase
                                                  pp_Tuberin pp_Tuberin.pT1462
##
        pp_TIGAR
##
      0.30951045
                  0.131346041
                                     -0.16806595
                                                 0.100690071
                                                                    0.30485719
     -0.05372203
                  0.117277324
                                     -0.23262784 0.004978734
##
  2
                                                                    0.21213734
##
  3
     -0.20866145
                  0.178693930
                                      0.31778869 -0.397809893
                                                                    0.27597925
                  0.235663221
##
      0.01619597
                                     -0.30014307 0.389756258
                                                                    0.15841322
  4
      0.10609700
                  0.166391774
                                     -0.05843642 -0.374503670
                                                                    0.08685452
## 5
     -0.17034378 0.554249448
                                      0.62469208 0.175252021
##
                                                                    0.09375666
  6
##
      0.09403831 -0.000828026
                                     -0.17590534 -0.549800089
                                                                    0.16192960
## 8
      0.11506156 -0.002789937
                                      0.12414576 -0.055955660
                                                                    0.19413482
     -0.10135703 0.224979134
                                     -0.04357619 0.007099135
## 9
                                                                   -0.10413695
     0.02834319
                 0.322128073
                                     -0.14757459 0.199166294
                                                                   -0.16774409
## 10
                                pp_XRCC1
##
       pp VEGFR2
                     pp XBP1
                                              pp_YAP pp_YAP.pS127
                                                                     pp YB.1
## 1
     -0.11658356 -0.16525252 0.186194169
                                         2
     -0.69937254 -0.07550642 -0.003801221
                                          ##
  3
      0.86565796 -0.13861868 -0.304095257
                                          0.37128376
                                                     1.255105834 -0.01648718
##
      0.48690898 - 0.07655232 \ 0.633322345 - 0.24704544 - 0.346866892 \ 0.06131228
      0.56891744 \ -0.10526209 \ -0.222083154 \ \ 0.31248053 \ \ 0.778481107 \ -0.20266572
## 5
     -0.74956809 -0.02958025 -0.138236792 -0.31888842 0.461961970 -0.08530998
  6
##
     -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
##
      0.06704853 -0.02804208 0.247824852 0.14662457 0.001922457 0.39231353
      0.63554768 -0.04379087 0.119580586 0.08841584 -0.025249284 0.05241940
##
  10
     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
                        -0.3176251 -0.337285027
                                                 -0.25897343
                                                             0.22354800
       -0.21715686
                                                 -0.03799842 -0.20925760
##
       -0.02425172
                        0.9693034 -0.249833227
## 5
        0.32659578
                        -0.3126808 0.079468180
                                                  0.29100677
                                                             1.06307612
## 6
        0.09432485
                        0.4667863 -0.209441600
                                                  0.10489299
                                                             1.24645372
                        -0.3442146 0.084942729
                                                  0.13935623
## 7
        0.26653859
                                                             2.11722049
## 8
       -0.01555901
                        0.1734768 -0.101529900
                                                  0.13294985
                                                             1.23488287
       -0.09938321
## 9
                        -0.5153367 -0.088220513
                                                 -0.02118508 0.04092878
## 10
        0.01097895
                        0.2167042 0.002083921
                                                 -0.10416382 -0.14051631
                                                              pp_eEF2
##
         pp_c.Met pp_c.Met.pY1235
                                     pp_c.Myc
                                                   pp_cIAP
## 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
                       0.06117913 -0.092861363 0.167918869 -0.07159947
## 8
     -0.072218793
```

```
0.32553013 -0.005866656 -0.141608416 0.18558948
## 9
      0.138641301
## 10 -0.136205527
                       0.22194796 -0.583131968 0.154074697 -0.02106024
                                pp_eIF4G
##
        pp eEF2K
                    pp_eIF4E
                                             pp_mTOR pp_mTOR.pS2448 pp_p16.INK4a
                                                        0.00370666
## 1
      0.64460107
                  0.05762170 -0.20180137
                                          0.28005110
                                                                     0.19042821
##
  2
      0.07517035
                  0.25832975
                                                                     0.89019386
## 3
                  0.22683585 0.05126257
                                          0.03232197
                                                                    -0.01236628
      0.05580048
                                                       -0.12881523
                  0.01805400 -0.02508498
      0.61713043
                                          0.53345134
                                                        0.06939529
                                                                    -0.31174931
## 5
     -0.01979739
                                                                     0.45060184
     -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
                  0.11974950 0.001280385
                                            0.01061515 -0.133214000
## 3
     -0.05012127
     -0.08299546
                  0.78077572 -0.024495538
                                            0.06407043 -0.384007691
      0.45285984
                 0.10046993 -0.081189464
                                           -0.06548803 0.209858160
## 5
## 6
     -0.50304189 -0.30585357 -0.111133556
                                            0.13402988 -0.338480293
## 7
     -0.02032589 0.23033413 0.396876128
                                            0.27692401 -0.190843879
     -0.29300152 0.27534406
                             0.023802086
                                            0.04656611 0.021015780
      0.13985042 0.37866478 0.069808962
                                            0.22391546 -0.207887101
## 9
      pp_p53 pp_p62.LCK.ligand
##
      pp p38.pT180.Y182
                                                      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
##
             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
                                       Positive
                                                Positive
                          -0.04690228
                                                                  Negative
     -0.09648247
                           0.03747280
## 5
                                       Positive
                                                 Positive
                                                                  Negative
## 6
      0.28419472
                          -0.04847390
                                       Negative
                                                 Negative
                                                                  Negative
##
      0.01578516
                           0.67703987
                                       Negative
                                                 Negative
                                                                  Negative
## 8
      0.23604626
                          -0.10163975
                                       Negative
                                                                   Negative
                                                 Negative
     -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", "histological.type")
# remove the categorical var temporarily
brca_data = brca_data %>% select(-c("PR.Status", "ER.Status", "HER2.Final.Status", "histological.type")
# 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_RSF ## 1 0 0 0 0 0 1 1 1 1 1 ## 2 -1 -1 -1 -1 -1 0 0 0 0 ## 3 0 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 0 ## 6 1 1 1 1 1 1 0 0 0 0 ## 7 0 0 0 0 0 0 0 0 0 0 ## 8 0 0 0 0 0 0 1 2 2 ## 9 2 2 2 2 2 -1 2 2 ## 10 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 2 2
## 2	0 0 0 0 0 0 2 2
## 3	0 0 0 0 0 2 2
## 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2 2
## 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 2 2 0
## 7 0 0 0 0 0 0 0 0 0 0 ## 8 0 0 0 0 1 2 2 2 ## 9 2 2 2 2 2 2 2 2	0 2 2 0
## 8 0 0 0 0 1 2 2 ## 9 2 2 2 2 1 2 2	2 2 0
## 9 2 2 2 2 -1 2 2	2
	0
## 10 0 0 0 0 0 0	
	0
## 11 1 1 1 0 0 0	
## 12 0 0 0 0 0 0	0
## 13 1 1 1 1 1 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
## 17 -1 -1 -1 -1 -1	-1
## 18 0 0 0 0 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
## 22	1
## 23 0 0 0 0 0 0 0	0
## 24	1
## 25 0 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
## 29	0
## 30 0 0 0 0 0 0 0 0 0 0 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
## 36 0 0 0 0 0 0	
## 37 0 0 0 0 0 0	()
## 38 -1 -1 -1 -1 -1 -1	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
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
## ##		0 -1	0 -1	0	0	0	0	0 -1	0 -1
##		-1 -1	-1 -1	−1 −1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1
##		0	0	0	0	0	-1 -1	-1 -1	-1 -1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	0
##		-1	-1	-1	-1	-1	-1	1	1
##		1	1	1	1	1	1	1	1
##		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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
## ##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0 0	0	0 0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	1	1	1
##		0	0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		-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
	101	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
##	110	cn_KIAA0754							
##	1	1	1	1	1	_CLDN13 \	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
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##									
		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##					1			1	
		1	1	1		1 _1	1		1 _1
##	03	-1	-1	-1	-1	-1	-1	-1	-1

##	84	C) 0	0	0	0	0	0	0
	85	C		0	0	0	0	0	0
##	86	1	1	1	1	1	1	1	1
##	87	C		0	0	0	0	0	0
##	88	C		0	0	0	0	0	0
##	89	-1		-1	-1	-1	-1	-1	-1
##	90	1		1	1	1	1	1	1
##	91 92	-1 C		-1 0	-1 0	-1 0	-1 0	-1 0	-1 0
##	93	C		0	0	0	0	0	0
##	94	C		0	0	0	0	0	0
##	95	-1	-1	-1	-1	-1	-1	-1	-1
##	96	C	0	0	0	0	0	0	0
##	97	1	1	1	1	1	1	1	1
##	98	C	0	0	0	0	0	0	0
##	99	C		0	0	0	0	0	0
##	100	C		0	0	0	0	0	0
##	101	-1		-1	-1	-1	-1	-1	-1
## ##	102103	C		0	0	0	0	0	0
##	103	-1		0 -1	0 -1	0 -1	-1	0 -1	0 -1
##	105	C		0	0	0	0	0	0
##	106	C		0	0	0	0	0	0
##	107	C	0	0	0	0	0	0	0
##	108	C	0	0	0	0	0	0	0
##	109	C	0	0	0	0	0	0	0
	110	-1	-1	-1	-1	-1	-1	-1	-1
	111	C		0	0	0	0	0	0
	112	C		0	0	0	0	0	0
	113	-1		-1	-1	-1	-1	-1	-1
	114115	-1		0 -1	0 -1	0 -1	0 -1	0 -1	0 -1
##	116	_1 C		0	0	0	0	0	0
##	110						cn_PDZK1IP1		
##	1	1	1	1	1	1	1		1
##	2	0	0	0	0	0	0		0
##	3	0	0	0	0	0	0		0
##		0	0	0	0	0	0		0
##		1	0	0	0	0	0		0
##		0	0	0	0	0	0		0
## ##		0	0	0	0	0	0		0
##		1 -1	1 -1	1 -1	1 -1	1 -1	1 -1		1 -1
##		0	0	0	0	0	0		0
##		0	0	0	0	0	0		-1
##		0	0	0	0	0	0		0
##	13	1	1	1	1	1	1		1
##		0	0	0	0	0	0		0
##		0	0	0	0	0	0		0
##		-1	-1	-1	-1	-1	-1		-1
##		-1	-1	-1	-1	-1	-1		-1
##		1	1	1	1	1	1		1
## ##		0 -1	0 -1	0	0	0	0		0 -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	-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 ## 70	-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_DIO1 cn	TTC22 cn_	PCSK9	cn_PRK	AA2	cn_C1c	rf168	cn_	KANK4	cn_	FOXD	3
##	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
##		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
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		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
##		1	1	-1	-1	-1	1	1
##		-1	-1	-1	-1	-1	1	1
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		2	2	2	2	2	1	1
##		1	1	1	1	1	1	1
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		-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
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
	-		-	-	-	-	-	-

##	66	0	0	0	0	C	0	0	
##		0	0	0	0	C		0	
##		0	0	0	0	C		0	
##		0	0	0	0	C		0	
##		1	1	1	1	1		1	
##		-1	-1	-1	-1	-1		-1	
##		0	0	0	0	0		0	
##		0	0	0	0	C		0	
##		0	0	0	0	C		0	
##	75	0	0	0	0	C	0	0	
##	76	-1	-1	-1	-1	-1	1	-1	
##	77	0	0	0	0	C	0	0	
##	78	1	1	1	1	1	. 1	1	
##	79	0	0	0	0	C	0	0	
##	80	1	1	1	1	1	. 1	1	
##	81	0	0	0	0	C	0	0	
##	82	1	1	1	1	1	. 1	1	
##	83	-1	-1	-1	-1	-1	1	-1	
##	84	0	0	0	0	C	0	0	
##	85	0	0	0	0	C	0	0	
##	86	1	1	1	1	1	. 1	1	
##	87	0	0	0	0	C	0	0	
##	88	0	0	0	0	C	0	0	
##		-1	-1	-1	-1	-1	. –1	-1	
##		1	1	1	1	1	. 1	1	
##		-1	-1	-1	-1	-1		-1	
##		0	0	0	0	C		-1	
##		0	-1	-1	1	1		-1	
##		0	0	0	0	C		0	
##		-1	-1	-1	-1	-1		-1	
##		0	0	0	0	C		-1	
##		2	2	2	1	1		1	
	98	0	0 0	0	0	C		0	
## ##	100	0	0	0	0	C		0	
	101	-1	-1	-1	-1	-1		-1	
	102	0	0	0	0	0		0	
	103	0	0	0	0	C		0	
	104	-1	-1	-1	-1	-1		-1	
	105	0	0	0	0	C		0	
	106	0	0	0	0	C		0	
	107	0	0	0	0	C		0	
	108	0	0	0	0	C		0	
	109	0	0	0	0	C		0	
	110	-1	-1	-1	-1	-1	1	-1	
	111	0	0	0	0	C	0	0	
##	112	0	0	0	0	C	0	0	
##	113	-1	-1	-1	-1	-1	-1	-1	
##	114	0	0	0	0	C	0	0	
##	115	-1	-1	-1	-1	-1		-1	
##	116	0	0	0	0	C		0	
##		${\tt cn_IL12RB2}$	${\tt cn_DIRAS3}$	cn_C1orf					_PTGFR
##		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
##		-1	-1	-1	-1	-1	-1	-1
##	18	1	1	1	1	1	1	1
##	19	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	-1	-1	-1
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
## ##		-1	-1	-1	-1	-1	-1	-1
		0	0	0	0	0	0	0
## ##		0	0 0	0	0 0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
	34	0	0	Ö	0	Ō	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
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	1
##		-1 -1						
##		-1 1						
## ##		1 1	1 1	1 -1	1 -1	1 -1	1 -1	1 -1
##	50	T	1	-1	-1	-1	-1	-1

##		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	
##	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
##		${\tt cn_DNASE2B}$	cn_LPAR3	cn_CLCA2	${\tt cn_CLCA4}$				cn_EPHX4
##		-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 0	1 0	1 0	1	1
##	10	-1	-1	-1	-1	-1	-1	-1	0 -1
##		0	0	0	0	0	-1	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		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
##		0	0	0	0	0	0	0	0
	24	1	1	1	1	1	1	1	1
##		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
##		0	0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		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
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##	47	0	0	0	0	0	0	0	0

##	10	0	0	0	0	0	-1	-1	-1
##		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
##		1	1	1	1	0	0	0	0
##	71	-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		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
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
	82	1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	0	0	0	0
##		0	0	0	0	0	0	0	0
		-1	-1	-1	-1				
## ##		-1	-1	-1	-1	0	1	1	1 0
##		-1 -1							
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		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

	400	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	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_ABCA4 cn_					cn_NBPF6		cn_GSTM2
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	-1	-1	-1	-1	-1
##		2	1	0	2	2	2	2	2
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		0	0	0 -1	0	0	0	0	0
##		-1 1	-1	-1 -1	0	0	0	0	0
##		-1	-1		-1 1	-1	-1	-1	-1
## ##		1 0	1	1 0	-1	1	1 0	1 0	1
##		2	1	1	1	1	1	1	0 1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	1	1	1	1
##		-1 -1	-1 -1	-1 -1	-1 -1	-1	-1	-1	-1
##		-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##	50	-1	-1	-1	-1	-1	-1	-1	-1

## 39	9 1	1	1	1	1	1	1	1
## 40	0 0	0	0	-2	0	0	0	0
## 41	1 -1	-1	-1	0	0	0	0	0
## 42	2 0	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	3 -1	-1	-1	-1	-1	-1	-1	-1
## 54	4 -1	-1	-1	-1	-1	-1	1	1
## 55	5 1	1	1	1	1	1	1	1
## 56	6 -1	-1	-1	-1	-1	-1	-1	-1
## 57	7 1	1	1	1	1	1	1	1
## 58		0	0	0	0	0	0	0
## 59		0	0	0	0	0	0	0
## 60		0	0	-1	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	8 0	0	0	0	0	0	0	0
## 69	9 0	0	0	0	0	0	0	0
## 70	0 0	0	0	0	0	0	0	0
## 71	1 -1	-1	-1	-1	-1	-1	-1	-1
## 72		0	0	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		-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	1	1
## 85	5 0	0	0	0	0	0	0	0
## 86	6 1	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
## 92	2 0	U	U	U	U	U	U	U

	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	
##		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	
##		-1	-1	-1	-1	-1	-1	1	
##		2	2	2	0	0	1	0	
	10	0		0		0	0		
	11	1	0		0 1	1	1	0	
			1	1	0			1	
	12	0	0	0		0	0	0	
	13	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		
	17	-1	-1	-1	-1	-1	1		
	18	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		
##	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		

				•	•	•	
## 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
## 60	1	1	1	1	1	1	1
## 62	-1	-1			-1	-1	
## 62	2	2	-1 2	-1 2	2	2	-1 2
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
## 66	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	C	0	
##	86	1	1	1	1	1	1	. 0	
##		0	0	0	0	0	C	0	
##		0	0	0	0	1	1	. 1	
##		-1	-1	-1	-1	-1	-1		
##		1	1	1	1	1	1		
##		-1	-1	-1	-1	-1	-1		
##		0	0	0	0	0	C		
##		1	1	1	1	1	1		
## ##		0	0	0	0	0	C		
##		-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1		
##		1	1	1	1	1	1		
##	98	0	0	0	0	0	C		
##		0	0	0	0	0	C		
	100	0	0	0	0	0	C		
	101	-1	-1	-1	-1	-1	-1		
	102	0	0	0	0	0	C	0	
##	103	-1	-1	-1	-1	-1	-1	-1	
##	104	-1	-1	-1	-1	-1	-1	-1	
	105	0	0	0	0	0	C	0	
	106	0	0	0	0	0	C	0	
	107	0	0	0	0	0	C		
	108	1	1	1	1	1	1		
	109	0	0	0	0	0	C		
	110111	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1		
	112	0	0	-1 0	-1 0	-1 0	C		
	113	-1	-1	-1	-1	-1	-1		
	114	0	0	0	0	0	C		
	115	-1	-1	-1	-1	-1	-1		
	116	0	0	0	0	0	C	0	
##		cn_CASQ2	cn_VTCN1	cn_SPAG17 c	n_HSD3B2	n_HMGCS2	cn_FMO5 cn	_PDZK1P1 c	n_PDZK1
##		-1	1	-1	-1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	1	1	1
##		0	0	0	0	0	0	0	0
## ##		0	0	0 1	0 1	0	0 1	0 1	0 1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	2	2	2
##		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
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	2	2	2
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	1	1	1
##		-1	-1	-1	-1	-1	1	1	1
##		1	1	1	1	1	1	1	1
## ##		1 0	1 0	1	1 0	1	1 1	1 1	1 1
##		-1	-1	-1	-1	-1	0	0	0
π#	20	.1	1	1	1	1	U	U	U

##	21	-1	-1	-1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	1	1	0	1	1	1
##		0	0	0	0	0	1	1	1
##		1	1	1	1	1	1	1	1
##		-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
##		-1	-1	-1	-1	-1	1	1	1
##		0	2	2	2	2	1	1	1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	1	1	1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	1	1	1
##		0	0	0	0	0	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	2	2	2
##		0	0	0	0	0	1	1	1
##		-1	-1	-1	-1	-1	1	1	1
## ##		0	0	0	0	0	1	1 1	1 1
##		0 1	0 1	0 1	1	1	1 1	1	1
##		0	0	0	0	0	1	1	1
##		0	0	0	0	0	1	1	1
##		-1	-1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	1	1	1	1	1
##		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
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	2	2	2
##		2	1	1	1	1	1	1	1
##		0	0	0	0	0	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	0	0	1	1	1
##		0	0	0	0	0	0	0	0
##		2	2	2	2	2	2	2	2
##	14	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
##		-1	-1	-1	-1	-1	1	1	1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	2	2	2
##		0	0	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	1	1	1
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	0	0	0	0
##		0	0	0	0	0	1	1	1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	1	1	1
##		-1	-1	-1	-1	-1	2	2	2
##		-1	-1	-1	-1	-1	2	2	2
##		1	1	1	1	1	2	2	2
##	98	0	0	0	0	0	0	0	0
##		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 0	1 0	1	1 0	1	1 0	1	1
##	109 110	-1	-1	-1	-1	0 -1	-1	-1	0 -1
	111	-1 -1	-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_CNTN4 cn				
##	1	2	2	0	0	0	0	0	0
##		1	1	0	0	0	0	0	0
##		1	1	0	0	0	0	0	0
##		1	1	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	-1	1
##		1	1	0	0	0	0	0	0
##		2	2	2	2	2	2	-1	-1
##		1	2	-1	-1	1	1	-1	-1
	10	0	0	0	0	0	0	0	0
##		2	2	0	0	0	0	0	0

##		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
##		1	1	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	0	0	0	0	0	0
##									
		1	1	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		1	1	0	0	0	0	0	0
##		1	1	-1	-1	-1	-1	1	-1
##		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
##		1	1	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		1	1	0	0	0	0	0	0
##		1	1	0	0	0	0	0	0
##		1	1	-1	-1	-1	-1	-1	-1
##		-1	-1	0	0	0	0	0	0
##		0	0	0	0	0	1	0	0
##		1	1	0	0	0	0	0	0
##		1	1	0	0	0	0	0	0
##		1	1	0	0	0	0	0	0
##		1	1	0	0	0	0	0	0
##		1	1	0	0	0	0	0	0
##		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
##		-1	-1	1	1	1	1	0	0
##		-1	-1	0	0	0	0	0	0
##		1	1	1	1	1	1	-2	1
##		1	1	-1	-1	-1	-1	-1	-1
##	00	1	1	1	T	1	T	.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
##		1		1	0		0	0	0	0	0
##		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
##		2		2	-2		-2	-1	-1	-1	-1
##		1		1	-1		-1	1	1	-1	1
##		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
##		1		1	0		0	0	0	-2	-2
##		1		1	-1		-1	-1	-1	1	1
##		1		1	0		0	0	0	0	0
##		0		0	0		0	0			
									0	0	0
##		0		0	1		1	1	1	1	1
##		1		1	0		0	0	0	0	0
##		1		1	-1		-1	-1	-1	1	1
##		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
##		0		0	0		0	0	0	0	0
##		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
	101	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
	110		on AID			:E6					
##	1				CII_UADS					.5 cn_CXCL2	
##		0	0	0		0	0			0 0	
##	2	0	0	0		0	0		0	0 0	0

шш	0	4	4	4	4	4	4	4	4	4
## ##		1	1	1 0	1	1	1	1	1	1 0
##		0		0	0	0	0	0		0
##		0 2	0	2	2	0 2	2	2	0 2	2
##		0	0	0	0	0	0	0	0	0
##		2	2	2	2	2	2	2	2	2
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		2	1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1	1
	18	1	1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##	24	0	0	0	0	0	0	0	0	0
##	25	0	0	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	0	0
##	28	2	2	2	2	2	2	2	2	2
##	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	0
	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	0	0	0
	35	-1	-1	-1	-1	-1	-1	-1	-1	-1
	36	0	0	0	0	0	0	0	0	0
	37	0	0	0	0	0	0	0	0	0
##	38	-1	-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0	0
## ##		-1 0	-1 0	-1	-1 0	-1	-1	-1	-1 0	-1
##		2	1	0 2	2	0 2	0 2	0 2	2	0 1
##		0	0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##	55	0	0	0	0	0	0	0	0	0
##	56	-1	-1	-1	-1	-1	-1	-1	-1	-1

шш	- 7	^	^	^	^	0	0	0	0	^
## ##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0			0	0
##		0		1		0 1	0 1	0 1	0	
		1	1		1				1	1
##		0	0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0	0
##		2	2	2	2	2	2	2	2	2
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		1	2	2	2	2	2	2	2	1
##		1	1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1	1
##		2	2	2	2	2	2	2	2	2
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		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	-1	-1	-1	-1	-1	-1	-1	-1	-1
	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	1	1	1	1	1	1	1	1	1
	109	0	0	0	0	0	0	0	0	0
##	110	0	0	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		1 1	1	1	1	1	1	1 1
##	115		0 0	0	0	0	0	0	0 0
##	116		0 0	0	0	0	0	0	0 0
##		${\tt cn_AREG}$	cn_CDKL2	cn_CXCL9	cn_ART3	cn_CXCL10	cn_CXCL11	cn_CCDC158	cn_CXCL13
##		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	-1	-1
	7	0	0 2	0 2	0 2	0 2	0	0	0
## ##	8	2	2	1	1	1	2	2	2 2
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-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
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	1	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
## ##		0	0	0	0	0	0	0	0
##		0 2	0 2	0 2	0 2	0 2	0 2	0	0
##	29	0	0	0	0	0	0	2	2
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-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
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		1	2	2	2	2	2	2	2
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##	4/	0	0	0	0	0	0	0	0

##	48	-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
	50	Ö	0	0	0	0	0	0	0
##		-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
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##	58	0	0	0	0	0	0	0	0
##		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
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		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
##		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 88	0 2	0 1						
	89	-1	-1	-1	-1	-1	-1	-1	-1
	90	1	2	2	2	2	2	2	-1 -1
##		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

и.и.	100	0	^	0	0		0	0	0
	102103	0	0 0	0	0 0		0	0	0
	103	-1	-1	-1	-1	_	-1	-1	-1
	104	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	0	0		0	0	0
	112	0	0	0	0		0	0	0
##	113	0	2	2	2		2	2	2
##	114	1	1	1	1		1	1	1
##	115	0	0	0	0		0	0	0
##	116	0	0	0	0		0	0	0
##		${\tt cn_LRRC14B}$	$cn_PLEKHG4B$	cn_{IRX4}	cn_C5c	rf38	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 9	2	2	1 0		1 -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
##		-1	-1	-1		-1	-1	-1	-1
##		0	0	0		0	0	0	0
##		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
##		1	1	1		1	1	1	1
##		2	2	2		2	2	2	2
##		0	0	0		0	0	0	0
##		1	1	1		1	1	1	1
##		0	0	0		0	0	0	0
## ##		0	0	0		0	0	0	0
##		1	1 1	1 1		1 1	1 1	1 1	1 1
##		0	0	0		0	0	0	0
##		0	0	0		0	0	0	0
##		1	1	1		1	1	1	1
##		1	1	1		1	1	1	1
##		0	0	0		0	0	0	0
##		2	2	2		2	2	2	2
##		-1	-1	-1		-1	-1	-1	-1
##		0	0	0		0	0	0	0
##		0	0	0		0	0	0	0
##	38	1	1	1		1	1	1	-1

-1 -1

1 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	-2	-2	-2	-2	-2	-2	-2
##	44	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		2	2	2	2	2	2	2
##		0	0	0	0	0	0	0
##		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
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		1	1	1	1	1	1	1
##		0		0		0		
		· · · · · · · · · · · · · · · · · · ·	0		0		0	0
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		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
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1		-1	-1
##		1	1	1	1	1	1	1
##		2	2	2	2	2	2	2
##		1	1	1	1	1	1	1
##		1	1	1	1	1	1	
								1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		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

	00										4
##			1	1		1	1	1	1		1
##			0	0		0	0	0	0		0
##			0	0		0	0	0	0		0
##			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
	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 CT	NND2	cn DNAH	cn N		n NPR3 c	n IL7R	cn CAPSL
##	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
					2						
	6	2	2			2		2	-1	-1	-1
	7	0	0		0	(0	0	0	0
	8	1	1		2	4		2	1	1	1
	9	-1	-1		-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	0	0	0
##	13	-1	-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
##		0	0		0	()	0	0	0	0
##		0	0		0	()	0	0	0	0
##		1	1		1		L	1	1	1	1
##		2	2		2	-		2	2	2	2
##		0	0		0	(0	0	0	0
##		1	1		1		, <u>L</u>	1	0	0	0
##		0	0		0	. (0	0	0	0
##		0	0		0	(0	0	0	0
##		1	1		1		_	1	1	1	1
##		1	1		1		_	1	1	1	1
##	29	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
## 41 ## 42	-1	-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
## 7 <i>9</i> ## 80	2	2	2	2	2	2	2	2
## 80 ## 81	1	1	1	1	1	1	1	1
## 81 ## 82	1	1	1	1	1	1	1	1
## 82 ## 83		0	0	0	0	0	0	0
## 03	0	U	U	U	U	U	U	U

##	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
##		1	1	1	1	1	1	1	1
##		-2	-2	-2	-2	-2	-1	-2	-2
##		0	0	0	0	0	-1	-1	-1
##		1	1	1	1	1	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
	100 101	1 -1	1 -1	1 -1	1	1	1 -1	1 -1	1 -1
	101	0	0	0	-1 0	-1 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	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_CDC20B cr			
	1	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
## ##		0	0	0	0	0	0 0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	-1 -1
##		1	1	1	-1	-1	-1	-1	-1
##		0	0	0	-1	-1	-1	0	2
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0	0
##		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	Ö	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
## 50 ## 51			2	-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	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	Ö	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	0	0
## 73 ## 74	1	1	1	1	1	1	1	1
ππ / ' ±	1	1	1	1	1	1	1	1

##	75	0	0	0	0	0	0	^	0
##		1	1	1	1	1	0 1	0 1	0 1
##		0	0	0	0	0	0	0	0
##		1	1	1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		2	2	2	-1	-1	-1	-1	-1
##		1	1	1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1
##				1	1		1		
##		1	1		0	1	0	1 0	1
##		0	0	0	0	0	0	0	0 0
##					-1		-1	-1	-1
		1	1	1		-1			
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		-2	-2	-1	1	1	1	-2	0
##		-1	-1	-1	-1	-1	-1	-1	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		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							
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	0	-1	-1	0	-1	0	-1
##		0	0	0	0	0	0	0	0
##	11	0	0	0	0	0	0	0	0

шш	10	^	0	0	^	0	0	0	^
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##	32	1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##	34	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	1	1	0	0	1
##		1	0	1	0	0	0	0	0
##		-2	-2	-2	-2	-2	-2	-2	-2
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	-1	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	
##		-1 1							
##		0	0	0	0	0	0	0	0
##	05	-1	-1	-1	-1	-1	-1	-1	-1

##	66	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		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
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
## ##		0 -1	0 -1	0 -1	0 -1	0 -1	0 -1	0 -1	0 -1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		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 0	-1 0	-1 0	-1	-1	-1	-1	-1
##	116	cn_EDIL3 cn_GPR			0 C5orf27	0 cm PCSK1	0 cn FPAP2	O FENAS	O TSI D
##	1	0	.98 Cn	0 O	0	cn_PCSk1	CII_ERAP2	CII_EFNA5	0 Cn_15LP
##		0	0	0	0	0	0	0	0
ir m	_	U	•	v	U	U	U	U	•

## 3	1	1	1	1	1	1	1	1
## 4		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
## 8		-1	-1	-1	-1	-1	-1	-1
## 9		-1	0	0	-1	-1	-1	-1
## 10 ## 10		0	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	5 0	0	0	0	0	0	0	0
## 16	6 0	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 ## 21		0 -1						
## 22		-2	-2	-2	-2	-2	-2	-2
## 23		-1	-1	-1	-1	-1	-1	-1
## 24		0	0	0	0	1	0	0
## 25	5 0	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 ## 30		0	0	0	0	0	0	0
## 3:		1	1	1	1	1	1	1
## 32		1	1	1	1	1	1	1
## 33		0	0	0	0	0	0	0
## 34	4 0	0	0	0	0	0	0	0
## 3	5 -1	-1	-1	-1	-1	-1	-2	-2
## 36		0	0	0	0	0	0	0
## 37		0	0	0	0	0	0	0
## 38 ## 39		1	1	1	1	0	0	0
## 40		-2	-2	-2	-2	-2	-1	-1
## 4:		-1	-1	-1	-1	-1	-1	-1
## 42		-1	0	0	0	0	0	0
## 43	3 0	0	0	0	0	0	-2	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 ## 48		1 1	1 1	1	1	1	1	1
## 49		0	0	1	1 0	1 0	1 0	1 0
## 50		0	0	0	0	0	0	0
## 5:		-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	6 -1	-1	-1	-1	-1	-1	-1	-1

##	57	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
	62	-1	-1	-1	-1	-1	-1	1	1
##		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
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0						0	
			0	0	0	0	0		0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-2	-1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
	88	-1	-1	-1	-1	-1	-1	-1	-1
##		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
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-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
	106				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
	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
##	116	0	0	0	0		0 0	0
##		cn_TRIM36	cn_CDO1	cn_AQPEP cr	n_MEGF10 cn	_FBN2 c	n_SLC27A6 c	n_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
##		0	0	0	0	0	0	0
##		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
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
## ##		0	0	0	0	0	0	0
##		-1 0	-1 0	-1 0	-1 0	-1 0	-1 0	-1 0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		-2	-2	-2	-2	-1	-1	-1
##		-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
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##	30	0	0	0	0	0	0	0
	31	1	1	1	1	1	1	1
##		1	1	1	2	1	1	1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		-2	-2	-2	-1	-1	-1	-1
## ##		0	0	0	0	0	0	0
##		0	0	0	0	0 0	0	0
##		0	0	0	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1
##		-1 -1	-1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##	47	1	1	1	1	1	1	1

-1

##		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
##		1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1
	55	0	0	0	0	0	0	0
	56 57	-1	-1	-1	-1	-1	-1	-1
	57	0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		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
##		1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1
	81	-1	-1	-1	-1	-1	-1	-1
	82		1			1		
	83	1	0	1	1 0	0	1 0	1
		0		0				0
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1
##		0	0	0	-1	-1	-1	-1
##		-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
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		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	${\tt cn_C5orf20}$	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
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	1	1	1	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	
								0
##		0	0	0	0	0	0	0
##	3 8	0	0	0	0	0	0	0

##	39	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		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 65	0 -1	0	0 -1	0	0 -1	0	0 -1
##	66	0	-1 0	0	-1 0	0	-1 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
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	1	1
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##	92	-1	-1	-1	-1	-1	-1	-1

	00	0	•	•	•	^	•	^
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		-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
	114	0	0	0	0	0	0	0
		-			-			
	115	-1	-1	-1	-1	-1	-1	-1
	116	0	0	0	0	0	0	0
##	4	cn_PCDHA4 cn						
##	2	0	0	0	0	0	0	0
##		-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
##		-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
##		-1	-1	-1	-1	-1	-1	-1
	14	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##	21	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##	24	0	0	0	0	0	0	0
##	25	0	0	0	0	0	0	0
##		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
## 30	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 ## 51	0 -1	0 -1	0 -1	0 -1	0 -1	0 -1	0
## 51 ## 52	0	0	0	0	0	0	-1 0
## 52 ## 53	1	1	1	1	1	1	1
## 55 ## 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 ## 71	0	0	0	0	0	0	0
## 71 ## 72	0 0	0 0	0 0	0 0	0 0	0 0	0
## 72 ## 73	0	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

##		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
##		-1	-1		-1	-1	-1	-1		-1
##		0	0		0	0	0	0		0
##										
		1	1		1	1	1	1		1
##		0	0		0	0	0	0		0
##		-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
##		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_G			cn_GRIA1			ATP10B cn_F	BLL1	
##	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	
##		-1	-1	-1	-1	-1	-1	-1	-1	
##		-1	-1	-1	-1	-1	2	2	0	
##		0	0	0	0	0	0	0	0	
##		0	0	-2	0	0	0	0	0	
##		0	0	0	0	0	0	0	0	
		-1	-1	-1	-1	-1		-1		
	13						-1		-1	
	14	0	0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	0	
	18	0	0	0	0	0	0	0	0	
##		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
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##			0	0	0				
		0				0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##									
		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##									
		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##	56	-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-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
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##			0		0				
		0		0		0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		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
##		-1	-1	-1		-1	-1		1		1	-1
##		-1	-1	-1		-1	-1		-1		-1	-1
##		1	1	1		1	1		1		1	1
##												
		0	0	0		0	0		0		0	0
##		0	0	0		0	0		0		0	0
##		-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
##		0	0	0		0	0		0		0	0
##		-1	-1	-1		-1	-1		-1		-1	-1
##		0	0	0		0	0		0		0	0
##			0	0		0	0		0		0	0
		0										
##		0	0	0		0	0		0		0	0
##		0	0	0		0	0		0		0	0
##		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			RP			SX2		CX.1		
##	1	0	0	cn_unb	0	0	011_11	0	011_01	0	0	0
##		-1	-1		-1	-1		-1		-1	0	0
##												
		1	1		1	1		1		1	1	1
##		0	0		0	0		0		0	0	0
##		0	0		0	0		0		0	0	0
##		0	0		0	0		0		0	0	0
##		-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
##		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
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1		1
##								1	
##		1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		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
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	1	1
##	OO	-1	-1	-1	-1	-1	-1	1	Τ.

##	66	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
	72	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		-2	-2	-2	-2	-2	-2	-2	-2
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
	82	1	1	1	1	1	1	1	1
##		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 -1	0	0 -1	0	0	0	0	0
	115116	-1 0	-1 0	-1 0	-1 0	-1 0	0 0	0 0	0
##	110	cn_RASGEF1C							
##	1	CII_RASGEFIC	OIL_SCGDSAI	0	0	0	0	CII_FFOAT	0
##		0	0	0	0	0	0		0
II TT	_	O	O	U	U	U	U		9

## 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
00	_	_	_	_	_	_	_

##	57	0	0	0	0	0	0	0
##	58	0	0	0	0	0	0	0
##		-1	-1	-1	1	1	1	1
##		0	0	0	1	1	1	1
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		1	1	1	1	1	1	1
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##	65	-1	-1	-1	0	0	0	0
##	66	0	0	0	0	0	0	0
##	67	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	Ö	0	0
##				-1	-1	-1		
		-1	-1				1	1
##		0	0	0	1	1	1	1
##		0	0	0	1	1	1	1
##		0	0	0	0	0	0	0
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##	77	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	1	2
##		1	1	1	0	0	0	0
##		-1	-1	-1	1	1	1	1
##		-1	-1	-1	0	0	0	0
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		-1	-1	-1	1	1	1	1
##		1	1	1	0	0	0	0
##	87	1	1	1	0	0	0	0
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##	89	0	0	0	-1	-1	-1	-1
##	90	1	1	1	-1	-1	-1	-1
##	91	0	0	0	1	1	1	1
##		-1	-1	-1	1	1	1	1
##		0	0	0	-2	-2	-2	-2
##		0	0	0	0	0	0	0
##		0	0	0	1	1	1	1
##		-1	0	0		1	1	
					1			1
##		-1	-1	-1	0	0	0	0
##		0	0	0	0	0	0	0
##		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
	106	1	1	1	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
				1	0	0	0	0
##	110	1	1	T	U	U	U	U

## 112	##	111	-	-1	-1	-1	0		0	0	0
## 114											
## 115	##	113		0	0	0	0		0	0	0
## 116	##	114		0	0	0	0		0	0	0
## 1				0	0	-1	-1	-	-1	2	2
## 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		116									
## 2							cn_KIA				
## 3											
## 4 0 0 0 0 0 0 0 0 0 0 0 0											
## 5											
## 6											
## 7											
## 8											
## 9											
## 10											
## 11											
## 12											
## 14	##	12	0		0	0		0	0	0	0
## 15	##	13	1	1	1	1		1	1	2	1
## 16	##	14	0	0	0	0		0	0	0	0
## 17	##	15	-1	-1	-1	-1		-1	-1	-1	-1
## 18 -1	##	16	-1	-1	-1	-1		-1	-1	-1	-1
## 19 -1					1						
## 20											
## 21											
## 22 1 1 1 1 1 0 0 0 ## 23 0 0 0 0 0 0 0 0 ## 24 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											
## 24 1 <th></th>											
## 25 0 0 0 0 0 0 0 0 ## 26 -1											
## 26 -1											
## 27 -1					-						
## 28 1 <th></th> <th></th> <th></th> <th></th> <th>_</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>					_						
## 29 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 0 ## 37 0 0 0 0 0 0 0 0 0 0 ## 38 -1											
## 31 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 0 ## 37 0 </th <th>##</th> <th></th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th></th> <th>0</th> <th>0</th> <th>0</th> <th>0</th>	##		0	0	0	0		0	0	0	0
## 32 1 <th>##</th> <th>30</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th></th> <th>0</th> <th>0</th> <th>0</th> <th>0</th>	##	30	0	0	0	0		0	0	0	0
## 33 0 <th></th> <th></th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th></th> <th>0</th> <th>0</th> <th>0</th> <th>0</th>			0	0	0	0		0	0	0	0
## 34 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 -1 -1 ## 39 0 <td< th=""><th></th><th></th><th>1</th><th></th><th>1</th><th>1</th><th></th><th>1</th><th>1</th><th>1</th><th></th></td<>			1		1	1		1	1	1	
## 35 1 <th></th>											
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## 37 0 0 0 0 0 0 0 0 ## 38 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 ## 39 0											
## 38 -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 0 ## 43 1 1 1 1 1 1 1 1 1 ## 44 -1 <											
## 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0											
## 41											
## 42 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 43 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
## 43											
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## 45											
## 47 0 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	шш	40	0	^	0	0	0	0	0	1
## 50			0	0	0	0	0	0	0	-1
## 51										
## 52										
## 53										
## 54										
## 55			1		1	1	1	1	1	1
## 56	##	54	0	0	0	0	0	0	0	0
## 57	##	55	0	0	0	0	0	0	0	0
## 58	##	56	1	1	1	1	1	2	2	2
## 59	##	57	0	0	0	0	0	0	0	0
## 60	##	58	0	0	0	0	0	0	0	0
## 61	##	59	1	1	1	1	1	1	1	1
## 62	##	60	1	1	1	1	1	2	1	1
## 63	##	61	0	0	0	0	0	0	0	0
## 64	##	62	1	1	1	1	1	1	1	1
## 64	##	63	1	1	1	1	1	1	1	1
## 65	##	64	0	0	0		0	0	0	0
## 66										
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## 68 0 0 0 0 0 0 0 0 0 0 0 0 0										
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## 70										
## 71										
## 72 1 1 0 <th></th>										
## 73 0 0 0 0 0 0 0 0 ## 74 1 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>										
## 74 1 1 1 2 1 1 1 1 ## 75 1 0 0 0 0 0 0 0 ## 76 1 <										
## 75 1 0 0 0 0 0 0 0 ## 76 1										
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## 77 0 0 0 0 0 0 0 0 ## 78 1 1 -1 2 2 1 1 1 ## 80 1 1 -1 <th></th>										
## 78 1 1 -1 2 2 1 1 1 ## 80 1 1 -										
## 79 0 0 0 0 0 0 0 0 ## 80 1 1 -1										
## 80 1 1 -1 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>										
## 81 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 82 1 <th></th>										
## 83 0 0 0 0 0 0 0 0 ## 85 1 1 1 1 1 1 1 2 2 ## 86 0 0 0 0 0 0 0 0 0 0 ## 87 0 <th></th>										
## 84 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 0 ## 87 0 0 0 0 0 0 0 0 0 ## 88 1 1 1 0 0 0 0 0 0 ## 90 -1										
## 85 1 1 1 1 1 1 2 2 ## 86 0 0 0 0 0 0 0 0 0 ## 87 0 0 0 0 0 0 0 0 0 ## 88 1 1 1 0 0 0 0 0 0 ## 89 -1 <										
## 86 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0<										
## 87 0 <th></th>										
## 88 1 1 1 0 0 0 0 0 ## 89 -1										
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## 91 1 <th></th>										
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## 94 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 95 1 1 1 1 1 1 1 1 1 1 1 1 1 1 ## 96 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0										
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## 97 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 98 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 99 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										
## 99 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										
## 100 0 0 0 0 0 0 0 0										
## 101 -1 -1 -1 -1 -1 -1										
	##	101	-1	-1	-1	-1	-1	-1	-1	-1

	400					4		4	^	•	•
	102	-		·1	-1	-1		-1	0	0	0
	103			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
	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 2	0	0
	115		_	.1	-1	-1		-1		2	2
	116	DI 1/O	0	0	0	0	4	0 DMDE	0	0 DTMG4	0
##			cn_Coori2						cn_COL9A1		
##		0		0	0		0	0	0	0	0
## ##	2	0		0	0		0	0	0	0	0
##		0		0	0			0	0		0
##		0		0	0		0	0	0	0	0
	6	-1		0 -1	0 -1		0	-1	0	0	0
##								0	0	0	2
##		0		0 1	0		0	1	1	1	1
##		1 2		2	0		1	0	-1	-1	-1
##		0		0	0		0	0	-1	0	0
##		0		0	0		0	0	0	0	0
##		0		0	0		0	0	0	0	0
##		1		1	1		1	1	-1	-1	-1
##		0		0	0		0	0	0	0	0
##		-1		-1	-1		·1	-1	-1	-1	-1
##		-1		-1	-1		·1	-1	-1	-1	-1
##		1		1	-1		·1	-1	1	1	1
##		-1		-1	-1		·1	-1	-1	-1	-1
##		-1		-1	-1		·1	-1	-1	-1	-1
	20	0		0	0		0	0	0	0	0
##		0		0	0		0	0	0	0	0
##		0		0	0		0	0	0	0	0
##		0		0	0		0	0	0	0	0
##		1		1	0		0	0	1	1	1
##		0		0	0		0	0	0	0	0
##		-1		-1	-1		1	-1	-1	-1	-1
##		-1		-1	-1		·1	-1	-1	-1	-1
##		1		1	1		1	1	1	1	1
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##		0		0	2		0	0	0	0	0
##		0		0	0		0	0	0	0	0
##		1		1	1		1	1	1	1	1
##		0		0	0		0	0	0	0	0
##		0		0	0		0	0	0	0	0
##		-1		-1	-1		1	-1	-1	-1	-1

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##	41	-1	-1	-1	-1	-1	-1	-1	-1
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##	43	1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
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##		0	0	0	0	0	0	0	0
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##		-1	-1	-1	-1	-1	-1	-1	-1
##		0					0	0	
			0	0	0	0			0
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##	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
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##		1	1	1	1	1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	1	1	1
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##		0	0	0	0	Ö	0	0	0
##		0	0	0	0	0	-1	-1	-1
##		-1	-1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
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##		1	1	1	1	1	1	1	2
##		0	0	0	0	0	0	0	0
##		-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
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##	84	0	0	0	0	0	0	0	0
##	85	2	2	2	2	2	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	-1	-1	-1
##	02	1	1	1	1	1	1	1	1

шш	00	4	4		4	4	4	0	0
##		-1	-1		-1	-1	-1	-2	-2
##		0	0		0	0	0	0	0
##		1	1		1	1	1	1	1
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##		0	0		0	0	0	0	0
##		0	0		0	0	0	0	0
##		1	1		1	1	1	-1	-1
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	101	-1	-1		-1	-1	-1	1	1
	102	0	0		0	-1	-1	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	-1	-1		-1	-1	-1	-1	-1
##	111	1	1		1	2	2	1	1
##	112	0	0		-1	-1	-1	-1	-1
##	113	1	1		1	0	0	0	0
##	114	0	0		0	0	0	0	0
	115	2	2		0	0	0	0	0
	116	0	0		0	0	0	0	0
##			cn_MRAP2 cn	CGA					
##	1	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0
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##		0	0	0	0	0	0	0	0
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	6	0	-1	-1	0	0	0	-1	1
##	7	0	0	0	0	0	0	0	0
	8	1	-1	-1	1	-1	-1	-1	
									-1
##		-1	2	0	-1	-1	-1	1	-1
	10	0	0	0	0	0	0	2	2
##	11	0	0	0	0	0	0	0	0
	12	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	-1	-1	-1	-1	-1	-1	-1
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##		-1	-1	-1	-1	-1	-1	-1	-1
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## 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
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## 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
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## 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
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## 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
## 78 ## 79	0	0	0	0	0	0	0	0
## 79 ## 80	-1	-1	1	-1	-1	-1	-1	-1
## 80 ## 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
ππ UU	U	U	U	U	U	U	U	U

	•	•	•		•		•	•		
##		0	0	0	0	0	0	0	0	
##		-1	0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	0	
##		1	1	1	1	1	1	1	1	
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##	90	-1	-1	-1	-1	-1	-1	-1	-1	
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##	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	
##		0	0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	0	
	98	0	-1	-1	-1	-1	-1	-1	-1	
##		-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	
	101	0	0	-1	-1	-1	-1	-1	-1	
	103	0	0	0	0	0	0	0	0	
	103	0	0	0	0	0	0	0	1	
	104	0	0	0	0	0	0	-1	-1	
	105		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_COL10A1					cn_KIA		_ENPP3
##	1	0	0	0	0	(0	0
##	2	0	0	0	0	(0		0	0
##		1	1	1	1		1 1		1	1
##		0	0	0	0	(0	0
##		0	0	0	0		0		0	0
##		-1	-1	-1	-1	-:			-1	2
##		0	0	0	0		0		0	0
##		-1	-1	-1	-1	-:			1	1
##		-1	-1	-1	0) -1		-1	-1
##		2	2	2	2		2 2		-1	-1
##	11	0	0	0	0	(0		0	0
##	12	0	0	0	0	(0		0	0
##	13	1	1	1	1	:	1 1		1	1
##	14	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

## 21	0	0	0	0	0	0	0	0
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## 23	0	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	2	1
					0			
## 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
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## 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					
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## 42	0	0	0	0	0	0	0	0
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## 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
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## 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
	-	_	_	_	_	_	-	_

##		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
##		0		0	0	0	0	0	0	0
##		0		0	0	0	0	0	0	0
##		0		0	0	0	0	0	0	-1
##		0		0	0	0	0	0	0	0
##		1		1	1	1	1	1	1	1
##		-1		-1	-1	-1	-1	-1	-1	-1
##		-1		-1	-1	-1	-1	-1	-1	-1
##		1		1	1	1	1	1	1	1
##		-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
	100	0		0	0		0	0		
	110					0 -1	-1		0	0
		-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
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	116	0		0	0	0	0	0	0	0
##				cn_IL20						cn_PPP1R14C
##		0	0		0	0	0	0	0	0
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##	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
##		-1	-1		0	0	0	0	0	0
##		0	0		0	0	0	0	0	0
		-	-			•	•	•	-	•

##	12	0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	-1	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	- <u>1</u>	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		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
##		-1	-1	-1	-1	-1	-1	-1	-1
##	28	1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		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
##		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
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	0	0	0	0
##		0	0	0	0	0	0	0	0
## ##		0 -1	0 -1	0 -1	0 -1	0 -1	0 -1	0 -1	0 -1
##		-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
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##		1	1	1	1	1	1	1	1
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	53	1	1	1	1	0	0	1	1
	54	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
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##	57	0	0	0	0	0	0	0	0
##		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

		_		_	_		_		_
##		0	0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##									
		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
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##	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
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	2	2
##		-1	-1	-1	-1	-1	-1	-1	-1
##						0	0		
		0	0	0	0			0	0
##		1	2	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
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##	93	-1	-1	-1	-1	-1	-1	-1	-1
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##	95	1	1	1	1	1	1	0	0
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##	97	0	0	0	0	0	0	0	0
##	98	0	0	0	0	0	0	0	0
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	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
				0	0		0		
	106	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_DACT2 cn			
##		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		2
		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	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
##		0	0	0	0	0	0	-1	2
##		1	1	0	0	0	0	0	1
##		0	0	0	0	0	0	0	0
##				-	•		-1		-1
		-1	-1	-1	-1	-1		-1	
##		-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
##		0	0	0	0	0	0	1	1
##		0	0	0	0	0	0	-1	-1
##		0	0	-1	-1	-1	-1	0	0
##		0	0	0	0	0	0	1	1
##		0	0	0	0	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	2
##		0	0	-1	-1	-1	-1	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	0	0	0	0
##		-1	-1	-1	-1	-1	-1	0	0
##		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
##		0	0	0	0	0	0	0	0
##		1	1	1	1	0	0	1	1
##		0	0	0	0	0	0	1	1
##		0	0	0	0	0	0	0	0
##		1	1	-1	-1	1	1	1	1
##	50	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
##		-1	-1	-1	-1	-1	-1	1	1
##		-1	-1	-1	-1	-1	-1	0	0
##		0	0	0	0	0	0	0	0
##		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	Ö	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		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
##		0	0	0	0	0	0	1	1
##		2	0	0	0	1	1	-1	-1
##		-1	-1	-1	-1	-1	-1	1	1
##		0	0	0	0	0	0	0	0
		1	2	1	1	1			
##							1	1	1
##		-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
##		0	0	0	0	0	0	0	0
##		1	1	1	1	-1	-1	0	0
	100	0	0	0	0	0	0	Ö	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_CNTNAP2		
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
	3	1	1	0	0	0	0	0	0
##		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
##		2	2	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		-1	-1	1	1	1	1	1	1
##		1	2	0	0	0	0	0	0
##		1	1	2	2	1	1	1	1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	0	0	0	0	0	0
##		0	0	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	1
##		0	0	0	0	0	0	0	0
##		1	1	0	0	1	1	1	1
##		1	1	1	1	1	1	1	1
##		2	2	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##	4/	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
## 70		0	0				-1	
	0			0	0	0		-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
## 90 ## 91	1	1	-1	-1	-1	-1	-1	-1
			-1 -1	-1 -1	-1 -1			
## 92	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
## 100	0	0	0		0	0	0	0
## 101	U	U	U	0	U	U	U	U

шш	100			0	0	0	^		0	0	0
	102 103	0		0 0	0 -1	0 -1	0 -1		0 -1	0 -1	0 -1
	103	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_PTPRN2	cn_V					cn_GATA4
##		1	1	1	1		1	0	0	0	0
##		0	0	0	0		0	0	0	0	0
##	3	0	0	0	0		0	1	1	1	1
##		0	0	0	0		0	0	0	0	0
## ##		0	0	0 -1	0 -1		0 -1	-2 -1	-2 -1	-2 -1	-2 -1
	7	0	0	0	0		0	-1	-1 -1	-1 -1	-1 -1
##		1	1	1	1		1	-1	-1	-1	-1
##		1	0	0	0		0	-1	-1	-1	-1
##		0	0	0	0		0	2	-1	-1	-1
##		0	0	0	0		0	2	1	-1	-1
##		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
##		-1	-1	-1	-1		-1	1	1	1	1
##		0	0	0	0		0	-1	-1	2	2
##		1	1	1	1		1	1	1	1	1
##	20	1	1	1	1		1	-1	-1	-1	-1
##		0	0	0	0		0	0	0	0	0
## ##		1	1	1	2		2 0	-2 -1	-1 -1	-1 -1	-1 -1
##		2	1	0 2	2		1	-1	0	0	-1 0
##		0	0	0	0		0	1	1	1	1
##		-1	-1	-1	-1		-1	-1	-1	-1	-1
##		0	0	0	0		0	1	1	1	1
##		1	1	1	1		1	-1	-1	-1	-1
##		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
##		1	1	1	1		1	-2	-2	-2	-2
##		0	0	0	0		0	-1	-1	-1	-1
##		0	0	0	0		0	-1	-1	-1	-1
##		0	0	0	0		0	0	0	0	0
##		1	1	1	1		1	0	0	0	0
##		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
##		1	1	1	1	1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	1	1	1	1
##		0	0	0	0	0	1	1	1	1
##		-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
##		0	0	0	0	0	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0	0
##		1	1	1	1	1	-1	-1	-1	-1
##		0	0	0	0	0	-1 -1	-1 -1	-1 -1	
										-1
##		0	0	0	0	0	0	0	0	0
##		-1	-1	-1	-2	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	0	0	0	0
##		-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
##		-1	0	0	0	0	0	0	0	0
	72	0	0	0	0	0	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0	0
	74	-1	-1	-1	-1	-1	1	1	0	1
##		1	1	1	1	1	-2	-2	-2	-2
##		2	2	2	2	2	-1	-1	-1	-1
##		1	1	1	1	1	-1	-1	-1	-1
##		1	1	1	1	1	-1	-1	-1	-1
##		1	1	1	1	1	0	0	0	0
##		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
##		0	0	0	0	0	-1	-1	-1	-1
##		0	0	0	0	0	-1	-1	-1	-1
##		0	0	0	0	0	-2	-2	-2	-2
##		1	1	1	1	1	1	1	1	1
##		0	0	0	0	0	-1	-1	-1	-1
##		-1								
			1	1	1	1	- <u>1</u>	-1 -1	-1 -1	-1 -1
##	92	-1	-1	-1	-1	-1	-1	-1	-1	-1

##	03	-1	-1	-1	-1	-1		-1	-1	-1	-1
	94	0	0	0	0	0		-1	-1	-1	-1
##		1	1	1	1	1		1	1	1	1
##		-1	0	-1	-1	-1		-1	-1	-1	-1
##		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
	114 115	0 -1	0 -1	0 -1	0 -1	0 -1		-2 -1	-2 -1	-2 -1	-2 -1
	116	0	0	0	0	0		-1 -1	-1 -1	-1 -1	-1 -1
##	110	cn_SLC7A2					n HR				
##	1	0	0	0	0	0	0	0	CII_I LD	0	ADAMDLCI 0
##		0	0	0	0	0	0	0		0	0
##		1	1	1	1	1	1	1		1	1
##		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	-1	-1	-1	-1	-1	-1	-1		-1	-1
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##		-1	-1	-1	-1	-1	-1	-1		-1	-1
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	14	-1	-1	-1	-1	-1	-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 19	-1 1	-1 1	-1 1	-1 1	-1 1	-1 1	-1 1		-1 1	-1 1
##		-1	-1	-1	-1	-1	-1	-1		-1	-1
##		0	0	0	0	0	0	0		0	0
	22	-1	-1	-1	-1	-1	-1	-1		-1	-1
	23	-1	-1	-1	-1	-1	-1	-1		-1	-1
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	25	1	1	1	1	1	1	1		1	1
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##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
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##		-1	-1	-1	-1	-1	-1	-1	-1	-1
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##		-1	0	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1	1
##		1	1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0	0
		•	•	•		-	-	-	•	-

##	2/1	1	1	1	1	1	1	1	1		1
##		1	1	1	1	1	1	1	1		1
##		-1	-1	-1	-1	-1	-1	-1	-1		-1
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##		-2	-2	-2	-2	-2	-2	-2	-2		-2
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##	91 98	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1		-1 -1		
##		-1 -2	-1 -2	-1 -2	-1 -2	-1 -2	-1 -2	-1 -2	-1 -2		-1 -2
	100	-2	-2	-2	0	0	0	-2 0	-2 0		0
	100	-1	-1		-1	-1	-1	-1	-1		-1
	101	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1		-1 -1
	102	0	0	0	0	0	0	0	0		0
	103	-1	-1	-1	-1	-1	-1	-1	-1		-1
	104	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1		-1 -1
	106	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1		-1 -1
	107	0	0	0	0	0	0	0	0		0
	107	-2	-2	-2	-2	-2	-2	-2	-2		-2
	109	0	-2	0	0	-2 0	0	0	0		0
	110	-1	-1	-1	-2	-1	-1	-2	-2		-2
	111	-1 -1	-1 -1	-1 -1	-2 -1	-1 -1	-1 -1	-2 -1	-2 -1		-2 -1
	112	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1		-1 -1
	113	0	0	0	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1		-1 -1
	114	-2	-2	-2	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1		-1 -1
	115	-1	-1	-1	-1	-1	-1	-1	-1		-1
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##	1	-2	_SCAILAS	-2	1	-:		-2	_ZMAT4_CH_ -2	-2	
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##		-1	-1	-1	-1	_		-1	-1	-1	
##		-1	-1	-1	1		1	1	1	1	
##		0	-1	-1	-1	_		-1	-1	-1	
##		-1	-1	-1	2		2	2	2	0	
##		-1	-1	-1	-1	_		-1	-1	-1	
##		-1	-1	-1	-1	_		-1	-1	-1	
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##		-1	-1	-1	2		2	2	2	2	
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##		1	1	1	1		1	1	1	1	
##		-1	-1	-1	2		2	2	2	2	
	19	1	1	1	1		1	1	1	1	
##		-1	-1	2	0		0	0	0	0	
	_ •	-	_	2	· ·		-	•	•	•	

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##	22	-1	1	1	1	1	1	1	1
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##		-1	2	-1	2	1	1	2	2
##			0		0	0			
		0		0			0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	2	2	2	2	2
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			1		1		1	1	
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##		-1	-1	-1	-1	-1	-1	-1	-1
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##		-1	-1	-1	2	0	0	0	0
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##		-1	-1	1	2	2	2	2	2
##		-1	-1	-1	-1	-1	-1	-1	-1
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##	66	-1	-1	1	1	1	1	1	1
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##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
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##		-1	-1	-1	1	1	1	1	1
##		0	0		0	0		0	0
				0			0		
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##	75	-1	0	0	0	0	0	0	0
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##	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
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##	85	1	1	1	1	1	1	1	1
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##	88	-2	-2	-1	-1	-1	-1	-1	0
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									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
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##	94	-1	-1	-1	-1	0	0	0	0
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##	96	-1	-1	-1	2	2	2	2	2
##	97	-1	-1	-1	2	2	2	1	1
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##		-2	-2	-2	1	1	1	1	1
	100	0	0	0	0	0	0	0	0
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##	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	
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	115	-1	-1	-1	-1	-1	-1	-1	-1
	116	-1	-1	-1	1	1	1	1	1
##							cn_SDR16C5		
##		-2	1	1	1	1	1	1	1
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##		-1	2	2	2	2	2	2	2
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##		2	0	0	0	0	0	0	0
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##	тт	-1	1	2	1	1	1	T	1

##	12	-1	1	1	1	1	1	1	1
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##		2	2	2	2	2	2	2	2
##			0	0	0	0	0	0	0
		1							
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##		-1	1	1	1	1	1	1	1
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##		-1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##	44	1	1	1	1	1	1	1	1
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##		0	0	0	0	0			0
							0	0	
##		1	-1	-1	0	0	0	0	0
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		_	_	=	-	-	=	_	=

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	72	1	1	1	1	1	1	1	1
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	74						1		1
		1	1	1	1	1		1	
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##		0 2	0 2	0	0	0	0	0 2	0 2
##	90	2	2	2	1	1	2	2	2

шш	Г7	^	0	0	0	^	^	0	`
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##		0	0	0	0	0	0		С
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			0)
##		0		0	0	0	0		
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π#	101	-	*	_	_	-	-	-	_

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	23	2	2	2	2	2		2
	24	1	1	1	1	1	1	1
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	27	1	1	1	1	1	1	1
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	29	0	0	0	0	0		0

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##		2	2	2	2	0	0 0
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	84		1	1	1	1	1	1	1
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	90		1	1	1	1	1	1	1
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	92				1	1	1	1	
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	105		1	1	1	0	0	-1	0
	106		1	1	1	1	1	1	1
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##	111		2	2	2	2	2	2	2
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##	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_LY6K cn_					
	1	1	1	1	1	1	1	1	1
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	15	0	0	0	0	0	0		0
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	18	2	2	2	2	2	2		2
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	1			1				1
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## 49	0	0	0	0	0	0	0	0
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## 62	2	2	2	2	2	2	2	1
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## 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
. =	•	-		_		_	_	_

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	105	0	0	0	0	0	0	0	0
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	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_SLC24A2
##	1	0	0	0	0	0	0	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-2	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		2	2	2	2	2	2	-1	-1
##		2	2	2	2	2	2	2	2
##		1	2	2	2	2	2	1	-1
##		1	1	1	1	2	2	2	2
##		0	0	0	0	0	0	0	0
##		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
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	2	2	2	2
##				0	0	0			0
		0	0				0	0	
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-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
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##	35	-1	-1	-1	-1	-1	-1	-1	-1
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##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
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	47	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
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##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
	54	1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##	57	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
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##	60	-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
	62	-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1

##	66	0	0	0	0	0		0		0	0
##		0	0	0	0	0		0		0	0
##		0	0	0	0	0		0		0	0
##		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
##		0	0	0	0	0		0		0	0
##		0	0	0	0	0		0		0	0
##		2	2	0	0	0		0		0	0
##		-1	-1	-1	-1	-1		-1		-1	-1
##		-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
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##	83	0	0	0	0	0		0		0	0
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##	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
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##	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	-2	-1	-1	-1	-1		-1		-1	-1
	102	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
	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		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 0	1 0	1 0	1		1		1	1
##	116	on CDKNOV		cn_ELAVL2		0 EM215 cn	ለበኮፖ	0 cn	۲ΟΣ	O DPGG3	0 cn_DNAT1
##	1	cn_CDKNZA	cn_DMRTA1	Cn_ELAVL2	C11-11	.EM215 Cn_	AQP7	CII-	_AUPS 0	0	CH_DNAII
##		0	0	0		0	0		0	0	0
II TT	_	U	O	O		9	J		J	U	J

ππ О	4	4	4	4	4	4	4	4
## 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
## 11	0	0	0	0	0	0	0	0
## 12	0	0	0	0	-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	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
## 31 ## 32	0	0	0	0	0	0	0	0
## 32 ## 33	0	0	0	0	0	0	0	0
## 33 ## 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
##		-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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		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
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		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
		-1	-1	-1	0	0	0	0	
	101								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				^	•	^	•		•	^	•	•
## 113												
## 114												
## 115												
## 116												
## 1			_									
## 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												
## 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1					<u>-</u>					
## 3												
## 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	3	-1		-1	-1		-1		-1	-1	
## 6	##	4	0	0	0	0		0	0	0	0	
## 7	##	5	0	0	0	0		0	0	0	0	
## 8	##	6	1	1	1	1		1	1	1	1	
## 9	##	7	2	2	2	2		2	2	2	2	
## 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 11 0 0 0 0	##	8	-1	-1	-1	-1		-1	-1	-1	-1	
## 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 ## 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			-1	-1	-1	-1			1	1	1	
## 12	##	10	0	0	0	0		0	0	0	0	
## 13											0	
## 14												
## 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 15 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												
## 16												
## 17												
## 18												
## 19												
## 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 21 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												
## 21 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												
## 22												
## 23 0 0 0 0 0 0 0 0 0 0 0 0 0												
## 24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												
## 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0									
## 27 -1	##	25	0	0	0	0		0	0	0	0	
## 28	##	26	0	0	0	0		0	0	0	0	
## 29 0 0 0 0 0 0 0 0 0 0 0 0 0	##	27	-1	-1	-1	-1		-1	-1	-1	-1	
## 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	28	1	1	1	1		1	1	1	1	
## 31 -1	##	29	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 0 ## 37 0 0 0 0 0 0 0 0 0 0 ## 38 -1 <th></th> <th></th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th></th> <th></th> <th>0</th> <th>0</th> <th></th> <th></th>			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 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>												
## 34 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												
## 35 1 <th></th>												
## 36 0 <th></th>												
## 37 0 0 0 0 0 0 0 0 ## 38 -1												
## 38 -1												
## 39												
## 40												
## 41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												
## 42												
## 43												
## 44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 ## 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												
## 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												
## 46 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
## 72 ## 73	0	0		0		0		0
## 73 ## 74			0		0		0	
	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
## 90 ## 91	-1 -1							
## 91 ## 92	0	0	0	0	0	0	0	0
## 92 ## 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

шш	100	^	0	0	0		0 0	0	0
	102103	0	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
	106	0	0	0	0		0 0	0	0
	107	0	0	0	0		0 0	0	0
	107	-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 LCN2		cn_CACNA1B	
##	1	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	-1	-1	1	0	0	0	0
##		1	1	1	1	1	1	1	1
	20	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	1	1	1	1	1
##		0	0	0	0	0	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
## ##		0 -1	0 -1	0 -1	1 -1	1 -1	1 -1	1 -1	1 -1
##		-1 1	1	-1 1	1	1	-1 1	1	-1 1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	-1	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	-1	-1	-1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	0	0	0	0	0
			_		U	9	J	U	v

		_		_		_	_		
##		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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##				0	0		_		
		0	0			0	0	0	0
##		-1	-1	-1	-1	0	0	0	0
##		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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##									
		1	1	1	1	1	1	1	1
##		-1	-1	-1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##	66	0	0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0	0
	74	0	0	0	0	0	0	0	0
##		0	-1	-1	-1	-1	-1	-1	-1
		-1	-1	-1	0	0	-1	-1	-1
##			0		-1				
##		0		-1		-1	-1	-1	-1
##		1	1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	-1	-1	2	2	2
##		-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
##		0	0	0	0	0	0	0	0
##		0	-1	-1	-1	-1	-1	-1	-1
##		0	-1	-1	0	0	0	0	0
##		-1	1	-1	1	1	-1	-1	-1
##		-1	-1	-1	0	0	0	0	0
		0	0		0		0	0	
##	92	U	U	0	U	0	U	U	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
	100	0	0	0	0	0	0	0	0
	110	-1	-1	-1	0	0		0	
		_	_		0		0		0
	111	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_AKR1C1						
##		1	1	1	1	1		1	
##		0	0	0	0	(0	
##		1	1	1	1	1		1	
##		0	0	0	0	C	0	0	
##		0	0	0	0	C	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	2	
##	10	0	0	0	0	(0	0	
##	11	0	0	0	0	(0	0	
##	12	0	0	0	0	C	0	0	
##	13	2	2	2	2	2	2 2	2	
##	14	0	0	0	0	C	0	0	
##	15	0	0	0	0	C	0	0	
##	16	-1	-1	-1	-1	-1	-1	-1	
	17	-1	-1	-1	-1	-1		-1	
	18	-1	-1	-1	-1	-1		-1	
	19	0	0	0	0	(0	
	20	-1	-1	-1	-1	-1		-1	
	21	0	0	0	0	(0	
	22	1	1	1	1	1		1	
	23	0	0	0	0	(0	
	23 24	1	1	1	1	1		1	
	2 4 25	0	0	0	0	(0	
			-1	-1		-1		-1	
	26	-1 0	-1	-1	-1 0	-]		-1	
	27								
	28 29	1	1 0	1 0	1 0	1		1	
##		()	()	()	()	(, ()	()	

					_		
## 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
ıπ 00	1	1	1	1	1	т.	1

## 84	##	Ω/Ι	0	0		0	0		0	0		0
## 86												1
## 87					_							_1
## 88												0
## 89												
## 90												_
## 91												0
## 92					-							-1
## 93												-1
## 94												0
## 95 0 0 0 0 0 0 0 0 0 0 0 0 0												
## 96												
## 97					-							-1
## 98												0
## 100												_
## 100												0
## 101												1
## 102					-							-1
## 103												0
## 104												0
## 105					_							-1
## 106												0
## 107												0
## 108												0
## 109												1
## 110												0
## 111							1			1		1
## 113	##	111	1	1		1	1		1	1		1
## 114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0	0		0	0		0	0		0
## 115	##	113	1	1		1	1		1	1		1
## 116 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	114	0	0		0	0		0	0		0
##	##	115	1	1		1	1		1	1		1
## 1 1	##	116	0	0		0	0		0	0		0
## 1 1	##		cn_GATA3 c	n_MCM10 cn	_BEND7 o	cn_ITGA8	cn_ST88	SIA6	cn_MRC1	cn_A	RMC3	
## 3	##	1	1	1	1	1					1	
## 4 0 0 0 0 0 0 0 0 0 ## 6 1 0	##	2	0	0	0	0		0	0		0	
## 5 0 0 0 0 0 0 0 ## 6 1 1 1 1 1 1 1 1 ## 7 1 0	##	3	1	1	1	1		1	1		1	
## 6			0	0	0	0		0	0		0	
## 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0			0	0	0	0		0	0		0	
## 8 1 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 1 ## 14 0 0 0 0 0 0 0 0 0 ## 15 0 0 0 0 0 0 0 0 0 ## 16 -1	##	6	1	1	1	1		1	1		1	
## 9 2 2 2 1 1 1 0 ## 10 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 2 2 2 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 -1 -1 ## 17 -1 -			1	1	1	1		1	1		1	
## 10 0 <th></th> <th></th> <th></th> <th></th> <th></th> <th>1</th> <th></th> <th>1</th> <th>1</th> <th></th> <th></th> <th></th>						1		1	1			
## 11 0 0 0 0 0 0 0 0 ## 12 0 0 0 0 0 0 0 0 ## 13 2 2 2 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 -1 ## 17 -1												
## 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0		0					0	
## 13				0		0		0	0		0	
## 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												
## 15 0 0 0 0 0 0 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 +18 -1 -1 -1 -1 -1 -1 +19 0 0 0 0 0 0 0 0 0 0 0												
## 16												
## 17												
## 18												
## 19 0 0 0 0 0 0 0												
## 20 -1 -1 -1 -1 -1 -1												
	##	20	-1	-1	-1	-1		-1	-1		-1	

##	21	0	0	0	0	0	0	0
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##	30	0	0	0	0	0	0	0
##	31	0	0	0	0	0	0	0
##	32	1	1	1	1	1	1	1
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##	36	1	1	1	1	1	1	1
##	37	0	0	0	0	0	0	0
##	38	0	0	0	0	0	0	0
## ##		1	1	1	1	1	1	1 1
##		1 2	1 2	1 2	1 1	1	1	0
##		1	1	1	1	1	1	1
##		2	2	2	2	2	2	2
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
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	53	1	1	1	1	1	1	1
	54	0	0	0	0	0	0	0
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## ##		0	0	0 1	0	0	0	0
##		0	1 0	0	1 0	1 0	1	1 0
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
	66	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##	68	0	0	0	0	0	0	0
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##	70	1	1	1	1	1	1	1
	71	0	0	0	0	0	0	0
	72	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##	74	0	0	0	0	0	0	0

									_	
##		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	
##		2	2	2	2		2	2	2	
##		2	2	2	2		1	1	1	
##		-1	-1	-1	-1		-1	-1	-1	
##		-1	-1	-1	-1		-1	-1	-1	
##	84	0	0	0	0		0	0	0	
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##	86	-1	-1	-1	-1		-1	-1	-1	
##	87	0	0	0	0		0	0	0	
##		2	1	1	1		1	1	1	
##		0	0	0	0		0	0	0	
##		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	
##		0	0	0	0		0	0	0	
##		0	0	0	0		0	0	0	
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	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				PT.AC9				DADGS
##	1	1	1	011_1	1	1	011_01	1	1	1
##		0	0		0	0		0	0	0
##										
		-1	-1		1	-1		-1	-1	-1
##		0	0		0	0		0	0	0
##		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
##		0	0		0	0		0	0	0
##		0	0		0	0		0	0	0
ππ		U	U		V	U		U	J	U

		_						_
##		2	1	1	1	1	2	2
	13	1	1	1	1	1	1	1
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##	17	-1	-1	-1	-1	-1	-1	-1
##	18	-1	-1	-1	-1	-1	-1	-1
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	25	0	0	0	0	0	0	0
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	32	-1	-1	-1	-1	-1	-1	-1
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	34	0	0	0	0	0	0	0
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##	44	-1	-1	-1	-1	-1	-1	-1
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##	47	0	0	0	0	0	0	0
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##	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
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##	55	0	0	0	0	0	0	0
##	56	-1	-1	0	2	2	1	1
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##	59	0	0	0	0	0	0	0
##	60	0	0	0	0	0	0	0
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##		-1	2	2	1	1	1	1
##	63	-1	-1	-1	-1	-1	-1	-1
##	64	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1

##	cc	0	0	0	0		^	0	0
		0	0	0	0		0	0	0
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##		0	0	0	0		0	0	0
##		-1	-1	-1	-1		-1	-1	-1
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##		-1	-1	-1	0		0	0	0
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##		0	0	0	0		0	0	0
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##	78	-1	-1	-1	-1		-1	-1	-1
##	79	0	0	0	0		0	0	0
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##	81	1	-1	-1	-1		-1	-1	-1
##	82	-1	-1	-1	-1		-1	-1	-1
##	83	-1	-1	-1	-1		-1	-1	-1
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	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
	107	0	0	0	0		0	0	0
	100	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 EAM106A an	0 VNDC1 an	0 CVCE1 o	_∞ τ <i>τ</i> πι4	0 on ELEE	0	0 cm CI C1AO
##	1	cn_C10orf90 cn_							
##		1	1	1	1	0	0	0	0
##	2	0	0	0	0	0	0	0	0

## 3									
## 5	## 3	-1	1	1	1	0	0	0	0
## 6	## 4	0	0	0	0	0	0	0	0
## 6	## 5	0	0	0	0	0	0	0	0
## 7		-1	-1	-1	-1	1	1	1	1
## 8									
## 9									
## 10									
## 11									
## 12		0	0	0	0	0	0	0	0
## 13	## 11	0	0	0	0	0	0	0	0
## 14	## 12	1	1	1	1	0	0	0	0
## 14	## 13	1	1	1	1	1	1	1	1
## 15		0	0	0	0	0	0	0	0
## 16									
## 17									
## 18									
## 19									
## 20									
## 21 0 0 0 0 0 -1 -1 -1 -1 -1 -1 ## 22 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1		0	0	0	0	0	0	0	0
## 22	## 20	-1	-1	-1	-1	0	0	0	0
## 23	## 21	0	0	0	0	-1	-1	-1	-1
## 24	## 22	-1	-1	-1	-1	-1	-1	2	-1
## 24	## 23	0	0	0	0	-1	-1	-1	-1
## 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 26 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					-2	2	2		
## 26									
## 27 0 0 0 0 1 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>									
## 28 1 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>									
## 29 0 0 0 0 1 1 1 1 ## 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 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 0 0 0 0 ## 440 1									
## 30 0 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>									
## 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 0 1 1 1 -1 ## 36 0 0 0 0 0 0 0 0 0 0 ## 37 0<									
## 32 0 <th>## 30</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th>	## 30	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 0 0 0 0 0 0 ## 37 0 <	## 31	0	0	0	0	1	1	1	1
## 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 2 ## 37 0 0 0 0 0 0 0 0 0 ## 38 -1 -1 -1 -1 -1 0 0 0 0 ## 39 0 0 0 0 0 0 0 0 0 ## 40 1 1 1 1 -1 </th <th>## 32</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th>	## 32	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 2 ## 37 0 0 0 0 0 0 0 0 0 ## 38 -1 -1 -1 -1 -1 0 0 0 0 ## 39 0 0 0 0 0 0 0 0 0 ## 40 1 1 1 1 -1 </th <th>## 33</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th>	## 33	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 2 ## 37 0 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 <td< th=""><th>## 34</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th></td<>	## 34	0	0	0	0	0	0	0	0
## 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 -1 ## 41 -1 -1 -1 -1 1									
## 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 -1 ## 41 -1 -1 -1 -1 -1 1									
## 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 -1 ## 41 -1 -1 -1 -1 1									
## 39 0 0 0 0 0 0 0 ## 40 1 1 1 1 -1 -1 -1 -1 ## 41 -1 -1 -1 -1 1<									
## 40 1 1 1 1 -1 -1 -1 -1 ## 41 -1 -1 -1 -1 1 1 1 1 1 ## 42 1<									
## 41 -1 -1 -1 -1 1									
## 42 1 4 4 4 0 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>-1</th>									-1
## 43 1 4 4 4 0 <th></th> <th>-1</th> <th>-1</th> <th></th> <th></th> <th>1</th> <th>1</th> <th></th> <th>1</th>		-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 0 0 0 0 ## 47 0 0 0 0 0 0 0 0 0 ## 48 0 0 0 0 0 0 0 0 0 ## 49 0 <th></th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th>		1	1	1	1	1	1	1	1
## 45 0 <th>## 43</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th>	## 43	1	1	1	1	1	1	1	1
## 45 0 <th>## 44</th> <th>-1</th> <th>-1</th> <th>-1</th> <th>-1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th>	## 44	-1	-1	-1	-1	1	1	1	1
## 46 0 <th>## 45</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th></th> <th>0</th>	## 45	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 1 ## 52 0 0 0 0 0 0 0 0 0 ## 53 -1									
## 48 0 0 0 0 0 0 0 0 ## 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 1 ## 52 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 1 ## 52 0 0 0 0 0 0 0 0 0 ## 53 -1 -1 -1 -1 -1 -1 -1 -1 -1 ## 54 0 0 0 0 0 0 0 0 0 ## 55 0 0 0 0 2 0 0 1									
## 50 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 -1 ## 54 0 0 0 0 0 0 0 0 ## 55 0 0 0 0 2 0 0 1									
## 51 -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 -1 ## 54 0 0 0 0 0 0 0 0 ## 55 0 0 0 0 2 0 0 1									
## 52 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 53 -1 -1 -1 -1 -1 -1 -1 -1 -1 +# 54 0 0 0 0 0 0 0 0 0 0 0 0 1									
## 53									
## 54 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1									
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									0
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##		-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
		0							
##		-	0	0	0	0	0	0	0
##		-1	-1	-1	-1	0	0	0	0
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##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	1	1	1	1
##		0	0	0	0	-1	-1	-1	-1
##		-2	-2	-2	-2	1	1	1	1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		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
##		0	0	0	0	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	1	1	1	1
##		-1	-1	-1	-1	0	0	0	0
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	107	0	0	0	0	1	-1	-1	-1
	108								
		0	0	0	0 _1	0	0 -1	0	0
##	110	-1	-1	-1	-1	-1	-1	-1	-1

##	111	<u>-</u>	-1	-1	-1	-1 -	-1 -	-1 -1	-1
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	113	-	-1	-1	-1		-1	1 1	1
	114		0	0	0	0	0	0 0	0
##	115	-	-1	-1	-1	-1 -	-1 -	-1	-1
##	116		0	0	0	0	0	0 0	0
##		${\tt cn_LRRC4C}$	${\tt cn_CTSW}$	${\tt cn_SPDYC}$	${\tt cn_ZNHIT2}$	${\tt cn_SYT12}$	cn_ACY3	${\tt cn_ALDH3B2}$	${\tt cn_GAL}$
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	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
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	8 9	-1 2	1 1	1	1	1 0	1	1	1
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	11	0	0	0	0	0	0	0	0
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##		-1	-1	-1	-1	-1	-1	-1	-1
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	2 <i>1</i> 28	1	1 0	1	1	-1	-1	1 -1	1 -1
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## ##		1 0	2	2	2	2	1 0	1	2
##		0	0	0	0	0	0	0	0
##	±1	U	U	U	U	U	U	U	U

	40	0	^	0	0	^	•	•	•
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##	56	-1	1	1	1	1	1	1	1
##	57	0	0	0	0	2	2	2	0
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##		0	-1	-1	-1	1	1	1	1
##						0	0		0
		0	0	0	0			0	
##		0	0	0	0	0	0	0	0
##		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
##		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
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##	79	0	0	0	0	0	0	0	0
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##	81	-1	-1	-1	-1	-1	-1	-1	-1
##	82	-1	-1	-1	-1	-1	-1	-1	-1
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							2	2	2
##	101	0	1	1	1	2	2	2	2

## 103	##	102	1	-1	-1	-1	-1	-1	-1
## 104									
## 105									
## 106									
## 107									
## 108									
## 110	##	108	-1				2	2	
## 111	##	109	0	0	0	0	0	0	0
## 112	##	110	-1	-1	-1	-1	1	1	1
## 113	##	111	-1	0	0	0	0	0	0
## 114	##	112	0	0	0	0	0	0	0
## 115	##	113	1	1	1	1	1	1	1
## 116	##	114	0	0	0	0	0	0	0
## 1			-1	-1	-1	-1		-1	-1
## 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		116							
## 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 3									
## 4									
## 5									
## 6									
## 7 0 0 0 0 0 0 0 0 0 0 0 1 1									
## 8									
## 9									
## 10									
## 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 12 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 12									
## 13									
## 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 16 0 0 0 0 0 0 0 ## 17 2 -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									
## 17 2 -1 <									
## 19	##		2	-1	-1	-1	-1	-1	-1
## 20	##	18	0	0	0	0	0	0	0
## 21 -1	##	19	0	0	0	0	0	0	0
## 22 -1 1 <th>##</th> <th>20</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th>	##	20	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 -1 -1 -1 -1 -1 -1 -1 1	##	21	-1	-1	-1	-1	-1	-1	-1
## 24 1 <th>##</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	##								
## 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 1 ## 28 2 <					0	0		0	
## 26 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 1 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>									
## 27 1 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>									
## 28 2 2 2 2 2 2 2 ## 29 1 -1 -1 -1 1 1 1 1 ## 30 0 0 0 0 2 2 2 ## 31 1 1 1 1 1 1 1 1 ## 32 0 0 0 0 0 0 0 0 ## 33 0 2 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									
## 29 1 -1 -1 -1 1 1 1 1 ## 30 0 0 0 0 2 2 2 2 ## 31 1 1 1 1 1 1 1 1 ## 32 0 0 0 0 0 0 0 0 ## 33 0 2 2 2 2 2 2 2 2 ## 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									
## 30 0 0 0 0 2 2 2 ## 31 1 1 1 1 1 1 1 1 ## 32 0 0 0 0 0 0 0 0 ## 33 0 2 2 2 2 2 2 2 2 ## 34 0 0 0 0 0 0 0 0 0 ## 35 1									
## 31 1 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>									
## 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 33									
## 34 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 35 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
## 35									
## 36									
## 37									

##	39	1	1	1	1	1	1	1
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##		1	0	-1	-1	-1	-1	-1
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	55	1	1	0	0	0	0	0
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##	58	0	0	0	0	0	0	0
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##	60	2	-1	-1	-1	-1	-1	-1
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	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
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##	73	0	0	0	0	0	0	0
## ##		1 -1	1	1 -2	1 -2	1	1 -2	1 0
##		1	-2 1	1	-2 1	-2 1	1	1
##		0	1	0	0	0	0	0
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##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
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##		-1	1	0	0	0	0	0
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
	~ ~	•	v	•	J	•	•	•

##		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
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	99	1	-1	-1	-1		-1	-1	-1
	100	0	0	0	0		0	0	0
	101	2	-1	-1	-1		-1	-1	-1
##	101	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
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	116	0	0	0	0		0	0	0
##	110			cn_FAM181B		n MMD7			cn_MMP3
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##	2	0	0	0	0	0	0	0	
									0
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##	9	2	2	-1	-1	-1	-1	-1	-1
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##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	-2	-2	-2	-2	-2	-2
##		0	0	0	0	0	0	0	0
##		1	1	1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	-1	2	2	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		2	2	2	-1	-1	-1	-1	-1
##	29	-1	-1	-1	-1	-1	-1	-1	-1

##		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		-1 -1
				-1				-1	
	46	0	0	0	0	0	0	0	0
	47	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		2	2	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		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
##		2	2	2	-1	-1	-1	-1	-1
	82	-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
		-	_	_	-	-	_	-	-

## 86	##	84	0	0	0	0	0	0	0	0	
## 86											
## 87											
## 88											
## 90											
## 91	##	89	0		0			0	0		
## 92 0 0 0 0 0 0 0 0 0 0 0 0 ## 93 2 2 1 1 1 1 1 1 1 1 1 1 1	##	90	1	1	1	-1	-1	-1	-1	-1	
## 93	##	91	1	1	1	1	1	1	1	1	
## 94	##	92	0	0	0	0	0	0	0	0	
## 95	##	93	2	2	-1	-1	-1	-1	-1	-1	
## 96	##	94	0	0	0	-1	-1	-1	-1	-1	
## 97	##	95	1	1	1	1	1	1	1	1	
## 98	##		2	2			1	1	1	1	
## 100			1								
## 100											
## 101											
## 102											
## 104 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0											
## 104 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 115 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0											
## 105											
## 106											
## 107											
## 108											
## 109											
## 110											
## 111											
## 112											
## 113											
## 115	##			-1			-1		-1		
## 116	##	114	0	0	0	0	0	0	0	0	
## 1 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 -1 ## 3 2 2 2 -1 <th< th=""><th>##</th><th>115</th><th>-1</th><th>-1</th><th>-1</th><th>-1</th><th>-1</th><th>-1</th><th>-1</th><th>-1</th><th></th></th<>	##	115	-1	-1	-1	-1	-1	-1	-1	-1	
## 1 0 0 0 0 0 0 0 0 ## 2 0 0 -1 </th <th>##</th> <th>116</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th></th>	##	116	0	0	0	0	0	0	0	0	
## 2 0 0 -1 <td< th=""><th>##</th><th></th><th>cn_MMP12 cr</th><th>n_MMP13 cn_</th><th>GRIA4 cn_0</th><th>C11orf92</th><th>cn_POU2</th><th>AF1 cn_C</th><th>RYAB cn_</th><th>NCAM1 cn</th><th>_DRD2</th></td<>	##		cn_MMP12 cr	n_MMP13 cn_	GRIA4 cn_0	C11orf92	cn_POU2	AF1 cn_C	RYAB cn_	NCAM1 cn	_DRD2
## 3 2 2 2 -1	##		0		0	0					0
## 4 -1 <											
## 5 0 0 0 0 0 0 0 0 ## 6 -1											
## 6 -1 <											
## 7 0 0 0 0 0 0 0 0 ## 8 -1											
## 8 -1 <											
## 9 -1 <											
## 10 -1											
## 11 0 0 0 0 0 0 0 ## 12 -1 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>											
## 12 -1											
## 13 -1											
## 14 0 0 0 0 0 0 0 0 0 0 0 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 -1 -1 ## 18 -2 -2 -2 -2 -2 -2 0 0 ## 19 0 0 0 0 0 0 0											
## 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 17 -1 -1 -1 -1 -1 -1 -1 +18 -2 -2 -2 -2 -2 -2 -2 0 0 0 ## 19 0 0 0 0 0 0 0 0											
## 17											
## 18											
## 20	##	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
## 20 ## 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
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## 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
			-1		-1	-1	-1	
## 66 ## 67	0	0		-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
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##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		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
##		1	1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
		0	0	0					
	100				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_DSCAML1						
##	1	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
## ##		-1 -1	-1 -1	1 -1	1 -1	1 _1	1	1 _1	1 -1
			-1 -1			-1 -1	-1 -1	-1 -1	
##		-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	Ō	1	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	-1	-1	-1	-1	-1	-1	-1	-1
## 30	0	0	0	0	0	0	0	0
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## 32	0	0	0	0	0	0	0	0
## 33	-1	-1	-1	-1	-1	-1	-1	-1
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## 39	0	-2	0	0	0	0	0	0
## 40	-1	-1	-1	-1	-1	-1	-1	-1
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## 42	-1	-1	-1	-1	-1	-1	-1	-1
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## 50	0	0	0	0	0	0	0	0
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## 60	-1	1	2	2	2	-1	-1	-1
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## 64	0	0	0	0	0	0	0	0
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ππ UU	1	1	1	1	1	1	1	1

##	66	-1	-1		0		0	0	0	0	0
##		0	0		0		0	0	0	0	0
##		0	0		0		0	0	0	0	0
##		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
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##	75	-1	-1		-1	-	1	-1	-1	-1	-1
##	76	-1	-1		-1	-	·1	-1	-1	-1	-1
##		0	0		0		0	0	0	0	0
##	78	1	1		1		1	1	1	1	1
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##		-1	-1		-1	-	·1	-1	-1	-1	-1
##		-1	-1		-1	-	·1	-1	-1	-1	-1
##		-1	-1		-1		·1	-1	-1	-1	-1
##		-1	-1		-1	-	·1	-1	-1	-1	-1
##		0	0		0		0	0	0	0	0
##		0	0		0		0	0	0	0	0
##		-1	-1		-1		.1	-1	-1	-1	-1
##		0	0		0		0	0	0	0	0
## ##		-1 0	0		-1 0		·1 0	-1 0	-1 0	-1 0	-1 0
##		-1	-1		-1		·1	-1	-1	-1	-1
##		1	1		1		1	1	1	1	1
##		0	0		0		0	0	0	0	0
##		-1	-1		-1	_	·1	-1	-1	-1	-1
##		-1	-1		-1		·1	-1	-1	-1	-1
##		1	1		1		1	1	1	1	1
##		-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
	111112	-1 -1	-1 -1		-1 -1		·1 ·1	-1 -1	-1 -1	-1 -1	-1 -1
	113	-1 -1	-1 -1		-1 -1		·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
##	0	cn_CXCR5 cn_TR		GRIK4		G2 cm					
##	1	0	0	0		0		0	0	0	0
##		-1	-1	-1		-1		-1	-1	-1	-1

##	2	-1	-1	-1	-1	-1	-1	-1	0
##		-1 -1	-1						
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		1	-1	-1	-1	-1	-1	-1	-1
##		-1	0	0	-1	-1	-1	-1	1
##		-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
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
## ##		0	0	0 1	0	0	0 1	0	0
##		1 0	1 0	0	1 0	1 0	0	1 0	1 0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		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
##		0	0	0	0	0	0	0	0
##		-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
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##	56	1	1	1	1	1	1	1	1

		4		4	,	4			
##		-1	-1	-1	-1	-1	-1	-1	-1
##		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
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	-1	-1	-1	-1	-1	-1	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		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
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-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
##		-1	-1	-1	-1	-1	-1	-1	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-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
11		-	_	-	_	-	1	-	-

				4	4			
	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_ADAMTS15				
##		0	0	0	0	0	0	1
##		-1	-1	-1	-1	-1	-1	1
	3	0	-1	-1	-1	-1	-1	2
##		-1	-1	-1	-1	-1	-1	0
	5	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##	7	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	2
##		-1	-1	-1	-1	-1	-1	0
##		-1	-1	-1	-1	-1	-1	0
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	0
##		-1	-1	-1	-1	-1	-1	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	1
##		-1	-1	-1	-1	-1	-1	0
##		0	0	0	0	0	0	1
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	0
##		-1	-1	-1	-1	-1	-1	1
##		1	1	1	1	1	1	2
##		0	0	0	0	0	0	0
##		1	1	1	0	0	0	1
##		0	0	0	0	0	0	0
##		-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
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	-1
##		-1	-1	-1	-1	-1	-1	0
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	0
##		0	0	0	0	0	0	-1
##		-1	-1	-1	-1	-1	-1	0
##		0	0	0	0	0	0	-2
##		-1	-1	-1	-1	-1	-1	0
##		-1	-1	-1	-1	-1	-1	0
##		0	0	0	0	0	0	0
##	47	0	0	0	0	0	0	0

##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	0
##		0	0	0	0	0	0	0
##		-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
##		-1	-1	-1	-1	-1	-1	0
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	-1
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	1
##		-1	-1	-1	-1	1	1	-1
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		-1	1	1	-1	-1	-1	1
##		-1	-1	-1	-1	-1	-1	1
##		-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	
##		-1	-1	-1	-1	-1	-1	1 0
##		0	0	0	0	0	0	0
##		0	0	0	-2	-2	-2	-1
##		-1	-1	-1	-2 -1	-2 -1	-2 -1	1
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	0
##		0	0	0	0	0	0	
						1		1
## ##		1 1	1 1	1 1	1 -1	-1	1 -1	0 -1
##		0	0	0	0	0	0	
		0	0	0		0	0	1
## ##		-1	-1	-1	0 -1	-1	-1	1 0
##		-1 1	-1 1	-1 1	-1 1	-1 1		
		-1	-1			-1	1	0
##				-1 0	-1	-1 0	-1	0
##		0	0		0		0	0
##		-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	0
##		-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	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	0
	107	-		-2	-2	-2	-2	-2	0
	108	-		-1	-1	-1	-1	-1	1
	109		0	0	0	0	0	0	0
	110	_		-1	-1	-1	-1	-1	1
	111	-		-1	-1	-1	-1	-1	-1
	112	_		-1	-1	-1	-1	-1	0
	113	_		-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	${\tt cn_SCNN1A}$	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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	-2
##		0	0	0	0	0	0	0	0
##		1	0	0	1	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##	50	U	U	U	U	U	U	U	U

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

##	03	1	1	1	1		1 1	1	1
##		0	0	0			0	0	0
##		0	0	0			0	0	0
##		0	0	0	(0	0	0
##		0	0	0	(0	0	2
	98	0	0	0	C		0	0	0
##	99	0	0	0	C) (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	C) (0 0	0	0
##	103	0	0	0	C) (0 0	0	0
##	104	0	0	0	C) (0 0	0	0
	105	-1	-1	-1	-1	. –:	1 –1	-1	-1
	106	0	0	0	C) (0	0	0
	107	0	0	0	C		0	0	0
	108	1	1	1	1		1 1	1	1
	109	0	0	0	(0	0	0
	110	1	1	1	1		1 1	1	1
	111	-1	-1	-1	-1		0	0	0
	112113	0 1	0 1	0 1	1		0 1 1	0 1	0
	114	0	0	0	(0	0	0
	115	-1	-1	-1	-1			-1	-1
	116	-1	-1	-1	-1			-1	-1
##	110						cn_C12orf39		
##	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 13	0 0	0 0	0 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
##		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
##		0	0	0	0	0	0	0	0
##		-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
	0	0	0	0	0	0		
## 69							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
## 80 ## 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
##		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
		1	1	1							
	101				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_GPR12 c		cn_DCL	.K1	
##	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	
##		-1	-1	-1	-1	-1	-1	-1		-1	
##		0	0	0	0	0	0	0		0	
##		1	1	1	1	1	1	1		1	
##		-1	-1	-1	-1	-1	-1	-1		-1	
##		1		1			1				
			1		1	1		1		2	
##		0	0	-1	-1	-1	-1	0		-1	
	10	0	0	0	0	0	0	0		0	
##		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	
##		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
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	1	1	1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	0
##		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
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	1	0	1	-1
##		0	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	0	0	0	0	-1
##		1	1	1	2	1	1	1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	1
##		-1	-1	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	1	1	1	1	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
11 11		_	_	_	_	_	_	_	_

##	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	
##		0	0	0	0	0	0	0	0	
##		-1	-1	-1	-1	-1	-1	-1	-1	
								-1		
##		-1	-1	-1	-1	-1	-1		-1	
##		-1	-1	-1	-1	-1	-1	-1	-1	
##		-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	
##		-1	-1	-1	-1	-1	-1	-1	-1	
##		-1	-1	-1	-1	-1	-1	-1	-1	
##		1	1	1	1	1	1	1	1	
##		-1	-1	-1	-1	-1	-1	-1	-1	
##		-1	-1	-1	-1	-1	-1	-1	-1	
##		0	0	0	0	0	0	0	0	
##		-1	-1	-1	-1	-1	-1	-1	-1	
##		1	2	2	2	2	-1	1	-1	
##		-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	2	-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	
	100	0	0	0	0	0	0	0	0	
	110	1	2	2	2	2	2	2		
									0	
	111	-1	-1	-1	-1	-1	-1	-1	-1	
	112	0	0	0	0	0	0	0	-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_FREM2	cn_PCDH20	cn_PCDH9	cn_KLHL1	${\tt cn_DACH1}$	cn_SCEL	cn_SLAIN1	cn_POU41	F1
##	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	-1	-1	-1	-1	-1	-1	-1	-	-1
##	5	0	0	0	0	0	0	0		0
##		1	-1	-1	-1	-1	-1	-1	-	-1
##		-1	-1	-1	-1	-1	-1	-1		-1
##		-1	1	1	1	1	1	1		1
##		1	-1	-1	-1	-1	0	0		0
##		0	0	0	0	0	0	0		0
##		0	0	0	0	0	0	0		0
##	тт	U	U	U	U	U	U	U		U

## 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
		-1	-1			-1		
## 31	-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	- <u>1</u>	-1
## 60	-1	-1	-1	-1	-1	-1	-1	-1
## 60	-1	-1	-1	-1	-1	0	0	0
## 61 ## 62	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1	-1	
		-1 0	-1 0					-1 0
## 63	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
##		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
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
## ##		-1 0	-1 0	-1 0	-1 0	-1 0	-1 0	-1 0	-1
##		-1	-1	-1	-1	-1	-1	-1	0 -1
##		-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1
##		0	0	0	0	0	0	0	0
##		-1	-1	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	0	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-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
	105 106	-1 -1	-1	-1 -1	-1	-1 -1	-1	-1	-1
	106	0	-1 0	0	-1 0	0	-1 0	-1 0	-1 0
	107	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				HS6ST3 cn_0	KGR1 cn_SI	LC15A1
##	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
## 22 ## 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	Ö	0	0	0	0	0
## 49 ## 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
##		-1	-1	-1	0	-1	0	-1
##		0	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		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
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
	71	0	0	0	0	0	0	0
##		-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
##		0	0		0	0	0	0
				0				
##		-1	-1	-1	-1	-1	-1	2
##		0	0	0	0	0	0	0
##		-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
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		1	1	1	0	0	0	1
##			-1		-1			
		-1		-1		-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		-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
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		-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
##	110	1	1	Ţ	1	T	1	Т

шш	111		4	4	1	4		1	1	4
	111112		1 -1	1 -1	1 -1	1 -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_FAM155A						
##	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
##		0	0	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	0	0	0	0	0
##		-1	-1	-1	-1	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	0	0	0	0	0
## ##		-1 -1	-1 -1	-1 -1	-1 -1	0 -1	0 -1	0 -1	0 -1	0 -1
##		-1 -1	-1 -1	-1 -1	-1 -1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	0	-1	0	2	2
##		-1	-1	-1	-1	0	0	0	0	0
##		1	1	1	1	-1	1	-1	-1	-1
##		-1	-1	-1	-1	0	0	0	0	0
##		1	1	1	1	1	1	1	1	0
##		0	0	0	0	0	0	0	0	0
##		-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
##		0	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		1	1	1	1	0	-1	-1	-1	-1
##		0	0	1	1	0	0	0	0	0
##		0	0	-1 -1	-1	0	0	0	0	0
## ##		-1 -1	-1 -1	-1 -1	-1 -1	-1 1	-1 1	-1 1	-1 1	-1
##		1	1	1	1	-1	-1	-1	-1	1 -1
##		1	1	1	1	0	-1	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	1	1	1	2	2
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0

## 48	0	0	0	0	-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	0	0	0	0	0	0	0	0	0
## 54	0	0	0	0	1	1	1	1	1
## 55	-1	-1	-1	-1	0	0	0	0	0
## 56	1	1	1	1	-1	-1	-1	-1	-1
## 57	0	0	0	0	0	0	0	0	0
## 58	-1	-1	-1	-1	0	0	0	0	0
## 59	1	1	1	1	-1	-1	-1	-1	-1
## 59 ## 60	-1	-1	-1	-1	-1 -1	-1 -1	-1 -1	-1 -1	
									-1
## 61	-1	-1	-1	-1	0	0	0	0	0
## 62	-1	-1	-1	-1	1	1	1	1	1
## 63	0	0	0	0	0	0	0	0	0
## 64	0	0	0	0	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 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
				0					
	116	0 ggmp.1	0 ADUD 1 OD		0	0	0 0	0	0
##	,						cn_SERPINA6		
##		0	0	0	0	0		0	
	2	0	0	0	0	0		0	
	3	0	0	0	0	0		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	
##		0	0	0	0	0	0	0	
##		-1	-1	1	1	1	1	1	
##		0	0	0	0	0		0	
##		1	0	0	0	0		0	
##		0	0	0	0	0		0	
##		1	-1	-1	-1	-1		-1	
##		0	0	0	0	0		0	
##		-1	-1	-1	-1	-1		-1	
##		0	0	0	0	0		0	
##		0	0	0	0	0		0	
##		-1	-1	-1	-1	-1		-1	
##		0	0	0	0	0		0	
##		0	0	0	0	0		0	
##		0	0	0	0	0		0	
##		-1	2	-1	-1	-1		-1	
##		-1	0	-1	-1	-1		-1	
##			0	0	0	0		0	
##		0	-1	-1	-1	-1		-1	
##	30	-1	-1	-1	-1	-1	-1	-1	

		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
		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
		0 0	0	0	0	0	0
	73	0 0	0	0	0	0	0
	74	0 0	0	0	0	0	0
	7 4 75	-1 -1	1	1	1	1	1
	76	1 1	1	1	1	1	_
	77	0 0	0	0	0	1 0	1 0
	78		-1	-1	-1	-1	
		1 1	1				-1
	79	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

		_							
##		0	0	1	1		1	1	1
	94	0	0	0	0		0	0	0
##		-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
				0					
	109	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_SE					
##	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
##		0	0		0	0	0	0	0
	20	-1	-1		-1	-1	-1	-1	-1
##		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
##		0	0		0	0	0	0	0
	26 26	-1	-1		-1	-1	-1	-1	-1
##		-1	-1		0	-1	-1	-1	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	- <u>1</u>	-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
ππ OO	1	T	1	1	T	U	U

шш	0.4		^		^			^		^		0	0		^
## ##			0 -1		0 -1			0 -1		0 -1		0 -1	0 -1		0 -1
##			0		0			0		0		0	0		0
##			0		0			0		0		0	0		0
##			-1		-1			-1		1		1	1		1
##			0		0			0		0		0	0		0
##			-1		-1			-1		-1		-1	-1		-1
##			1		1			1		1		1	1		1
##			1		1			1		1		1	1		1
##			1		1			1		1		1	1		1
##			0		0			0		0		0	0		0
##			-1		-1			-1		-1		-1	-1		-1
##			0		0			0		0		0	0		0
	97		-1		-1			-1		-1		-1	-1		-1
##	98		0		0			0		0		0	1		0
##			-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 0		-1 0			-1 -1		0 -1		0 -1	0		0 -1
## ##	112113		-1		-1			-1 -1		-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 DIO3		RD9		f180	cn		cn		cn		cn_KIAA01	25	
##	1	0	_	0	<u>-</u>	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	
##		1		1		1		1		1		1		1	
##		0		0		0		0		0		0		0	
##		-1		-1		-1		-1		-1		-1		-1	
##		1		-1		-1		-1		-1		-1		-1	
##		0		0		0		0		0		0		0	
##		0		0		0		0		0		0		0	
##		-1		-1		-1		-1		-1		-1		-1	
## ##		0		0		0		0		0		0		0	
##		0		0		0		0		0		0		0	
##		0		0		0		0		0		0		0	
##		0		0		0		0		0		0		0	
##		-1		-1		-1		-1		-1		-1		-1	
##		0		0		0		0		0		0		0	
##		-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
## 50 ## 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
	0						
## 66		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
##		-1	-1	-1	-1	-1	-1		1
##		1	1	1	1	1	1		1
##		-1	-1	1	-1	-1	-1		1
##		-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
##		0	0	0	0	0	0		0
##		0	0	0	0	0	0		0
##		1	1	1	1	1	1		1
##		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
##		0	0	0	0	0	0		0
##		-1	-1	-1	-1	-1	-1		1
##		0	0	0	0	0	0		0
##		-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_C15orf59		cn_RASGF		A1199 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
##		0	0	0	0		0	0	0
##		0	0	0	0		0	0	Ö
##		-1	-1		-1		-1		
				-1				-1	-1
##		-1	-1	-1	-1		-1	-1	-1
##		1	1	1	1		1	1	1
##		-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
## 31							
	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
## 59 ## 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

##		0	0		0	0	0	-1	-1
##		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
##								_MESP1 cn_ANP	
##		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
##		0	0	0	0	0	0		
	14	0						0	0
##	15		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
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##	21	-1	-1	-1	-1	-1	-1	-1	-1
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##	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
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##	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
##		-1	-1	-1	-1	-1	-1	-1	-1
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##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
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##		0	0	0	0	0	0	0	0
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##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##	oc	-1	-1	-1	-1	-1	-1	-1	-1

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##	59	-1	-1	-1	-1	-1	-1	-1	-1
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	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
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##	75	1	1	1	1	1	1	1	1
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##	78	1	1	1	1	1	1	1	1
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##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##									
		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
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	90	-1	-1	-1	-1	-1	-1	-1	-1
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	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
	107	1	1	1	1	1	1		1
								1	
	109	0	0	0	0	0	0	0	0
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##					cn_ARHGDIG				
##		2	2	1	1	1	1	1	1
##		0	0	0	1	1	1	1	1
	3	0	0	0	1	1	1	1	1
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	7	-1	-1	-1	0	0	0	0	0
## ##		2 -1	2 -1	1 2	1	1	1	1	1
##		-1	-1	0	0 2	0 2	0 2	0 2	0 2
##		0	0	0	0	0	0	0	0
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##		-1	-1	-1	1	1	1	1	1
##		0	0	0	2	2	2	2	2
##		0	0	0	1	1	1	1	1
##		-1	-1	-1	1	1	1	1	1
##		-1	-1	-1	1	1	1	1	1
##		0	0	0	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	0	0	0	0	0
##		-1	-1	-1	1	1	1	1	1
##		1	1	1	-1	-1	-1	-1	-1
##	23	0	0	0	0	0	0	0	0
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	28	-1	-1	-1	1	1	1	1	1
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##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	2	2	2	2	2
##		0	0	0	0	0	0	0	0
##		0	2	2	1	1	1	1	1
## ##		-1 -1	-1 -1	-1 -1	1	1	1	1	1
##		-1 -1	-1 -1	-1 -1	1 -1	1 -1	1 -1	1	1
##		-1	-1	-1 -1	-1	-1	-1	-1 0	-1 0
##		0	0	0	1	1	1	1	1
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##		0	0	0	1	1	1	1	1
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##		0	0	0	1	1	1	1	1
##		0	0	0	0	0	0	0	0
		·	•	•	ŭ	ū	· ·	·	-

##		-1	-1	-1	1	1	1	1	1
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##		0	0						
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##		0	0	0	0	0	0	0	0
##		-1	-1	-1	0	0	0	0	0
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##	70	2	2	2	0	0	0	0	0
##	71	1	1	1	0	0	0	0	0
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##		0	0	0	0	0	0	0	0
##		0	0	0	1	1	1	1	1
##		2	1	1	-1	-1	-1	-1	-1
##		1	1	-1	0	0	0	0	0
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##		0	0	0	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	0	0	0	0	0
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	83	-1	-1	-1	1	1	1	1	1
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##		-1	-1	-1	0	0	0	0	0
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##	89	-1	-1	-1	1	1	1	1	1
##	90	-1	-1	-1	1	1	1	1	1
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##		-1	-1	-1	0	0	0	0	0
##		0	0	0	0	0	0	0	0
	94	0	0	0	0	0	0	0	0
##		-1	-1	-1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
	98		1					1	
	99	1 0	0	1 0	1	1	1		1
					1	1	1	1	1
	100	0	0	0	1	1	1	1	1
##	101	-1	-1	-1	1	1	1	1	1

	400			•				•	•
	102		0 0	0	0			0	0
	103		0 0	0	1			1	1
	104	-	-1 -1	-1	1				1
	105		0 0	1	1				1
	106		0 0	0	1				1
	107		0 0	0	1				1
	108		1 1	1	1				1
	109		0 0	0	C				0
	110		0 0	0	C			0	0
	111		-1 0	1	C			0	0
	112	-	-1 -1	-1	0			0	0
	113		1 1	1	1			1	1
	114		0 0	0	1			1	1
	115	-	-1 -1	-1	-1			-1	-1
	116	MEMBA	0 0	0	1			1	1
##								cn_CACNA1H	
	1	1	1	1	1	1	1	1	1
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	3	1	1	1	1	1	1	1	1
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	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 2	0	0 2
## ##		2	2	2	2	2		2	0
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##		2	2	2	2	2	2	2	2
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##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		2	2	2	2	2	2	2	2
##		0	0	0	0	0	0	0	0
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##	40	-1	-1	-1	-1	-1	-1	-1	-1
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	51	1	1	1	1	1	1	1	1
	52		1						
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##		0	0	0	0	0	0	0	0
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##	75	-1	-1	-1	-1	-1	-1	-1	-1
##	76	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##	78	1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
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##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##	32	U	U	U	U	U	U	U	U

##		0	0	0	0	0	0	0	0
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##	95	1	1	1	1	1	1	1	1
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	101	1	1	1	1	1	1	1	1
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	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
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##	115	-1	-1	-1	-1	-1	-1	-1	-1
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##		cn_TPSB2	cn_TPSD1	cn_TPSG1 cr	n_BAIAP3	cn_IGFALS	cn_NPW	cn_RAB26 c	n_PRSS33
##	1	1	1	1	1	1	1	1	1
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##		1	1	1	1	1	1	1	-1
##		0	0	0	1	1	1	1	1
##		2	2	2	2	2	2	2	2
	11	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		2	2	2	2	2	2	2	2
			1						
##		1		1	1	1	1	1	1
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##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
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##		0	0	0	0	0	0	0	0

##		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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##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##	40	-1	-1	-1	-1	-1	-1	-1	-1
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##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
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##		1	1	1	1	1	1	1	1
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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
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##		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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0	0
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##		-1	-1	-1	-1	-1	-1	-1	1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##	UJ	1	т	1	Т	т.	1	Τ.	1

	•									
##		1	1	1	1	1	1	1		1
##		0	0	0	0	0	0	0		0
##		1	1	1	1	1	1	1		1
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##	90	1	1	1	1	1	1	1		1
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	100	1	1	1	1	1	1	1		1
	101	1	1	1	1	1	1	1		1
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	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
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##	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
##	110	cn_PRSS21							ΔΡΔΤ	-
	1	1	1	1	1	1	CII_010	1	. ^{ADA 1}	
##	2	1	1	1	1	1		1	1	
##		1	1	1	1	1		1	1	
##		0	0	0	0	0		0	0	
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##		0	0	0	0	0		0	0	
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##		-1	-1	-1	-1	-1		-1	1	
##		1	1	1	1	1		-1	-1	
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	12	0	0	0	0	0		0	0	
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##	15	1	1	1	1	1		1	1	
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##		1	1	1	1	1		1	1	
	18	1	1	1	1	1		1	0	
	19	1	1	1	1	1		1	1	
##		0	0	0	0	0		0	0	
		Ŭ	•	Ŭ	· ·	Ŭ		-	•	

## 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
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## 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
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## 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 ## 56	0	0	0	0	0	0	0
## 56 ## 57	1 0						
## 58 ## 59	0 0	0	0 0	0 0	0 0	0 0	0
## 59 ## 60	1	1	1	1	1	1	1
## 61	0	0	0	0	0	0	0
## 62	1	1	1	1	1	1	1
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## 65	0	0	0	0	0	0	0
## 66	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0
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## 70	0	0	0	0	0	0	0
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## 72	0	0	0	0	0	0	0
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## 74	1	1	1	1	1	1	1

	7.	_					4	
##		-1	-1	-1	-1	-1	-1	1
##		0	0	0	0	0	0	2
##		0	0	0	0	0	0	0
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##	82	-1	-1	-1	-1	-1	-1	-1
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##		1	1	1			1	1
					1	1		
##		1	1	1	1	1	1	1
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##	97	0	0	0	0	0	0	0
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##		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
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	104	1	1	1	1	1	1	1
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##	110	0	0	0	0	0	0	0
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	112	0	0	0	0	0	0	0
	113	1	1	1	1	1	1	1
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	115	-1	-1	-1	-1	-1	-1	
	116	1	1	1	1	1	1	1
	110							
##	4		cn_TNFRSF17					
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##	8	-1	-1	1	1	1	1	1
##		-1	-1	0	-1	-1	-1	-1
##		2	2	2	2	2	2	2
##		0	0	0	0	0	0	0
11 TT		O	U	O	5	O	J	J

	40	^	^	^	^	•	^	•
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		2	2	2	2	2	2	2
##		1	1	1	1	1	1	1
##		1	1	1	1	1	1	1
##		1	1	1	1	1	1	1
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##	19	1	1	1	1	1	1	1
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##	21	1	1	1	1	1	1	1
##	22	-1	1	-1	-1	-1	-1	-1
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##	24	0	0	0	0	0	0	0
##	25	1	1	1	1	1	1	1
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##	40	-1	-1	-1	-1	-1	-1	-1
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##		0	0	0	0	0	0	0
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##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
	65	0	0	0	0	0	0	0
	\sim	•	9	•	9	•	9	J

шш	cc	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
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##	72	0	0	0	0	0	0	0
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	77	0	0	0	0	0	0	0
	78	-1	-1	-1	-1	-1	-1	-1
	79	1	1	1	1	1	1	1
##		-1	-1	-1	1	1	1	1
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##		-1	-1	-1	-1	-1	-1	-1
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##	90	1	1	1	1	1	1	1
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##	94	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		0	0	2	0	0	0	0
##		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	
	101		1	1		1 1		1
		1	1		1		1	1
	102	0	0	0	0	0	0	0
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	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_						
##	1	1	1 1	1	1	1	1	1
##		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
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##		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
			-1						
	9	-1		-1	-1	-1	-1	-1	-1
##		2	2	2	2	2	2	2	2
##		0	0	0	0	0	0	0	0
	12	0	0	0	0	0	0	0	0
##		-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
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##	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
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##	25	1	1	1	1	1	1	1	1
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##	27	1	1	1	1	1	1	1	1
##	28		-1	-1	-1	-1	-1	-1	-1
		-1							
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
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##		1	1	1	1	1	1	1	1
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##		0	0	0	0	0	0	0	0
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##	40	-1	-1	-1	-1	-1	-1	-1	-1
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##		1	1	1	1	1	1	1	1
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##		0	0	0	0	0	0	0	0
##		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
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##	79	1	1	1	1	1	1	1	1
##	80	-1	-1	-1	-1	-1	-1	-1	-1
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##	91	1	1	1	1	1	1	1	1
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##	93	0	0	0	0	0	0	0	0
##	94	0	0	0	0	0	0	0	0
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##	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
##	110	U	U	U	U	U	U	U	U

	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
	116	1	1	1 CD10	1	1	1 FAMEZD	1	1 DVDG4
##	4						cn_FAM57B		
## ##		1 0	1	1	1 0	1 0	1 0	1 0	1
##		1	1	1	1	1	1	1	0 1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		-1	-1	1	1	1	1	1	1
##		-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
##		2	2	2	2	2	2	2	2
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		0	0	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
## ##		-1	-1	1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		1	1	1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##	29	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
## ##		1 0	1 0	1	1 0	1	1 0	1 0	1 0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
ırπ	T (U	U	J	U	U	U	U	J

##		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
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##									
		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	1	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		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
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		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
	-	_	=	=	-	=	-	-	=

	400		•	•			•	•	•
	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	0		0	0	0
	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	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	1	1	1	1		1	1	1
##		cn_ABCC12	cn_ABCC11	cn_CBLN1	cn_TOX3	cn_IRX6	${\tt cn_SLC6A2}$	cn_CES1	cn_MT1M
##	1	-1	-1	-1	-1	-1	-1	-1	-1
##	2	0	0	0	0	-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	-2	-2	-2	-2
##	6	1	1	1	1	-1	-1	-1	-1
##	7	0	0	0	0	0	0	0	0
##	8	1	1	1	1	2	2	2	2
##	9	1	-1	0	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##	11	0	0	0	0	0	0	0	0
##	12	0	0	0	1	2	2	2	2
	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	-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
##		-1	-1	-1	-1	-1	-1	-1	-1
##		2	2	2	2	2	2	2	-1
##		0	0	0	0	0	0	0	0
##		-2	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		2	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	-1
##									
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		2	2	2	0	-1	-1	-1	-1
##	38	1	1	1	1	1	1	1	1

-1

##	39	1	1	1	1	0	0	0	0
##		1	0	0	0	0	0	0	0
##		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
## ##	5 <i>1</i>	-1	-1 -1						
	59	-1 -1	-1 -1	-1 -1	-1 -1	-1 0	-1 0	-1 0	-1 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
##		-1	-1	-1	-1	-1	-1	-1	0
##		-1	-1	-1	-1	-1	-1	-1	-1
	77	0	0	0	0	0	0	0	0
	78 79	-1	-1	-1	-1	1	1 -1	1	1
	79 80	-1 -1							
##		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
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##	92	0	0	0	0	0	0	0	0

##		-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
##		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
##	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
##	110	cn_MT1A cn						ממיד ז			
	4	-1	_MIIG C.	-1	-1	-1		-1			
##									-1	-1	-1
##		-1	-1	-1	-1	-1		-1	-1	-1	-1
##		1	1	1	1	1		1	1	1	1
##		0	0	0	0	0		0	0	0	0
##		-2	-2	-2	-2	-2		-2	-2	-2	-2
##		-1	-1	-1	-1	-1		-1	-1	-1	-1
##	7	0	0	0	0	0		0	0	0	0
##	8	2	2	1	1	1		1	1	1	1
##	9	-1	-1	-1	1	1		-1	-1	-1	-1
##	10	-1	-1	-1	-1	-1		-1	-1	-1	-1
##	11	0	0	0	0	0		0	0	0	0
##	12	2	2	0	0	0		0	0	0	0
	13	-1	-1	-1	1	1		1	1	1	1
	14	-1	-1	-1	-1	-1		-1	-1	-1	-1
##		-1	-1	-1	-1	-1		-1	-1	-1	-1
##		-1	-1	-1	-1	-1		-1	-1	-1	-1
	17	-1	-1	-1	-1	-1		-1	-1	-1	-1
##		-1 -1	-1 -1	-1 -1	-1 -1	-1 -1		-1	0	0	0
##		-1 -1	-1 -1	-1 -1	-1 -1	-1 -1		-1 -1	-1	-1	-1
##		0	0	0	0	0		0	0	0	0
##		1	1	1	-1	-1		-1	-1	-1	-1
##		-1	-1	1	1	1		1	1	1	1
	23	-1	-1	-1	-1	-1		-1	-1	-1	-1
	24	0	0	0	1	1		1	1	1	1
##	25	-1	-1	-1	-1	-1		-1	-1	-1	-1
##	26	-1	-1	-1	-1	-1		-1	-1	-1	-1
##	27	-1	-1	-1	-1	-1		-1	-1	-1	-1
##	28	-1	-1	-1	-1	-1		-1	-1	-1	-1
##		0	0	0	0	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	-1	-1	-1	-1	-1
## 33	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 34	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 35	-1	-1	-1	-1	-1	-1	1	1	1
## 36	0	0	0	0	0	0	0	0	0
## 37	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 38	1	1	1	1	1	1	1	1	1
## 39	0	0	0	0	0	0	0	0	0
## 40	0	0	0	0	0	0	0	0	0
## 41	0	0	0	0	0	0	0	0	0
## 42	1	1	1	-1	-1	-1	-1	-1	-1
## 43	0	0	0	0	0	0	0	0	0
## 44	1	1	0	0	0	0	0	0	0
## 45	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 46	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 47	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 48	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 49	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 50	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 51	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 52	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 53	1	1	1	1	1	1	1	1	1
## 54	1	1	1	-1	-1	-1	-1	-1	-1
## 55	0	0	0	0	0	0	0	0	0
## 56	0	0	0	0	0	0	0	0	0
## 57	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 58	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 59	0	0	-1	-1	-1	-1	-1	-1	-1
## 60	1	1	1	1	1	1	1	1	1
## 61	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 62	1	1	1	1	1	1	1	1	1
## 63	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0	0	0
## 65	0	0	0	0	0	0	0	0	0
## 66	0	0	0	0	0	0	0	0	0
## 67	0	0	0	0	0	0	0	0	0
## 68	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 69	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 70	0	0	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0	0	0
## 72	0	0	0	-1	-1	-1	-1	-2	-1
## 73	0	0	0	0	0	0	0	0	0
## 74	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 75	0	0	0	0	0	0	0	0	0
## 76	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 77	0	0	0	0	0	0	0	0	0
## 78	1	1	1	-1	-1	-1	-1	-1	-1
## 79	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 80	-1	-1	-1	-1	-1	-1	-1	1	-1
## 80 ## 81	0	0	0	0	0	0	0	0	0
## 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	-1	-1	-1	-1	-1
##	87	-1	-1	-1	-1	-1	-1	-1	-1	-1
##	88	-1	-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
	92	0	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0	0
##		1	1	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##	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	-1	-1	-1	-1	-1	-1	-1	-1	-1
##	104	-1	-1	-1	-1	-1	-1	-1	-1	-1
	105	0	0	0	0	0	0	0	0	0
	106	-1	-1	-1	-1	-1	-1	-1	-1	-1
	107	-2	-2	-2	-2	-2	-2	-2	-2	-2
	108	-1	-1	-1	-1	-1	-1	-1	-1	-1
	100	0	0	0	0	0	0	0	0	0
	110	-1	-1	-1	0		0	0		
						0			0	0
	111	-1	-1	-1	1	1	1	1	2	1
	112	-1	-1	-1	-1	-1	-1	-1	-1	-1
	113	-1	-1	-1	-1	-1	-1	-1	-1	-1
	114	-1	-1	-1	-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_IL34	cn_CALB2	cn_CHST4	cn_TAT	cn_HP cr	_SYCE1L c	n_ADAMTS18	cn_CL	EC3A
##	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	1	1	2		1
##		0	0	0	0	0	0	0		0
##		1	1	1	1	1	1	1		1
##		-1	2	2	2	2	-1	-1		-1
##		-1	-1	-1	-1	-1	-1	-1		-1
##		0	0	0	0	0	0	0		0
##		0	0	0	0	0	0	0		0
##		1	1	1	1	1	1	1		1
##		-1	-1	-1	-1	-1	-1	-1		-1
##		-1	-1	-1	-1	-1	-1	-1		-1
##		-1	-1	-1	-1	-1	-1	-1		-1
##		-1	-1	-1	-1	-1	-1	-1		-1
	18	-1	-1	0	0	-1	0	0		0
##		-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	-1	-1 -1	-1 -1	-1 -1
## 47	-1 -1							
## 48	-1 -1	-1 -1		-1 -1		-1 -1	-1 -1	-1 -1
## 49			-1 -1	-1 -1	-1 -1		-1 -1	-1 -1
## 49	-1 -1	-1 -1	-1 -1		-1 -1	-1 -1	-1 -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

							•	•	•
##		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	-1 -1			
							-1	-1	-1
	92	0	0	0	0	0	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	1	1	1	1	0	0	0
##		-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	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	-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_TUBB3 cn	
##	1	-1	-1		-1	-1	-1	-1	-1
##		-1	-1		-1	-1	-1	-1	0
##		1	1		1	1	1	1	-1
##		0	0		0	0	0	0	-1
##		-2	-2		-2	-2	-2	-2	0
##		2	2		2	2	2	2	-1
##		0	0		0	0	0	0	0
##		1	1		1	1	1	1	-1
##		-1	-1		-1	-1	-1	-1	-1 -1
##		-1	-1		-1	-1	-1	-1	-1
##		0	0		0	0	0	0	-1 -1
##	TT	U	U		U	U	U	U	-1

	4.0	•	^	0	^	^	^	•
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	-1
	14	-1	-1	-1	-1	-1	-1	0
	15	-1	-1	-1	-1	-1	-1	0
	16	-1	-1	-1	-1	-1	-1	0
	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
##		-1	-1	-1	-1	-1	-1	1
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	0
##		-1	-1	-1	- <u>1</u>	-1	-1	0
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		-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
##		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
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	1
##		-1	-1	-1	-1	-1	-1	0
##		-1	-1	-1	1	1	1	-1
##		-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
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	1
##		1	1	1	1	1	1	-1
##		-1	0	0	-1	-1	-1	1
##		1	1	1	1	1	1	-1
##		-1	-1	-1	-1	-1	-1	1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	-1
##	00	U	U	U	U	U	U	1

								•
##		-1	-1	-1	-1	-1	-1	0
##		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
##		-1	-1	-1	-1	-1	-1	-1
	92	0	0			0		
				0	0		0	-1
##		-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_A	ALDH3A1 cn_SI	C13A2 cn_C	CORO6 cn_S	SLC6A4 cn	_RHBDL3 cn	_CCL11
##	1	-1	-1	0	0	0	0	0
##		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
	-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	Ö	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	Ö	0	Ö	0	0
## 47	0	0	0	0	0	0	0
## 48		1	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	
								-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
##		-1	-1	1	1	1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		-1	-1	0	0	-1	-1	-1
##		1	0	0	0	0	0	0
##		1	1	-1	-1	-1	-1	-1
##		-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
##		${\tt cn_CCL13}$	${\tt cn_CCL7}$	${\tt cn_CCL8}$	${\tt cn_GAS2L2}$	${\tt cn_CCL14}$	${\tt cn_CCL18}$	${\tt cn_TBC1D3C}$	cn_TBC1D3G
##	1	0	0	0	0	0	0	0	0
##		1	1	1	0	1	1	1	1
##		1	1	1	1	1	1	1	1
##		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
##		-1	-1	-1	-1	-1	-1	-1	-1
## ##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		2	2	2	2	2	2	2	2
##		-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
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
	29	0	0	0	0	0	0	0	0
## ##		0	0	0	0	0	0	0	0
##		1 1	1	1	1	1	1	1 1	1 1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	-1	1	1	1
##		0	0	0	0	0	0	0	0
##		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
##		1	1	1	1	1	1	1	1
##		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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0	0
##									
		1	1	1	1	1	1	1	1
##		-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
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
	82	1	1	1	1	1	1	1	1
##		-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
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		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
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	
									0
##		-1	-1	-1	0	0	1	1	1
##		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
##	101	T	1	1	1	1	1	1	1

	400	•	•	•	•	•	•		•	•
	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
	116	0	0	0	0	0	0		0	0
##			cn_PPP1R1B							
##		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	
##		0	0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	0	
##		-1	-1	-1	-1	-1	-1	-1	-1	
##		0	0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	0	
##		1 2	1 2	1 2	1	1 2	1	1 2	1 2	
## ##					2		2			
	20	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	
##		1	2	2	2	1	1	1	1	
##		-1	-1	-1	-1	-1	-1	-1	-1	
##		-1 -1	2	2	2	0	0	0	1	
##		0	0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	0	
##		1	1	1	1	1	1	1	1	
##		0	0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	0	
##		1	1	1	1	1	1	1	1	
##		1	1	1	1	1	1	1	1	
##		0	0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	0	
##		2	2	2	2	0	0	0	0	
##		0	0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	0	
		· ·	ŭ	ŭ	· ·	ŭ	ŭ	J	ŭ	

## 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
## 40 ## 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
## 89 ## 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

##		-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
##		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
	101	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
	110								
##		cn_KRT31	cn_KRT13 cn					_	cn_WNK4
##		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
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		2	2	2	2	2	2	2	2
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-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
##		1	1	1	1	1	1	1	1
	26		-						
##		0	0			0	0	0	0
## ##	27	0	0	0	0	0	0		0 -1
## ## ##	27 28							0 -1 0	0 -1 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
##		2	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-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
##		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
##		-1	-1	-1	-1	-1	-1	-1	-1
##	58	-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		0		0	0	0	0		
##			0					0	0
		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
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##	81	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1
	82	1	1	1	_				

##		1	1	1	1	1		1	1
##	85	-1	-1	-1	-1	-1	1	-1	-1
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	87	0	0	0	0	O		0	0
	88	-1	-1	-1	-1	-1		-1	-1
	89	0	0	0	0	0		0	0
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	91	-1	-1	-1	-1	-1		-1	-1
	92	-1	-1	-1	-1	-1	1	-1	-1
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##	94	-1	-1	-1	-1	-1	1	-1	-1
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	99	1	1	1	1	1		1	1
	100	0	0	0	0	0	0	0	0
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##	102	0	0	0	0	0	0	0	0
##	103	0	0	0	0	O	0	0	0
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	105	1	1	1	1	1		1	1
	106	1	1	1	1	1		1	1
	107	0	0	0	0	C		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
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	114	0	0	0	0	0		0	0
	115	-1	-1	-1	-1	-1	_	-1	-1
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##		cn_RND2 cn_		_			_	_	cn_KIF18B
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##	2	1	1	1	1	1	1	1	1
##	3	-1	-1	-1	0	1	1	1	1
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##	5	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		2	1	1	1	1	1	2	2
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##	12	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
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##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		2	2	2	2	2	2	2	2
##		-1	-1	-1	-1	-1	-1	-1	-1
##	20	-1	-1	-1	-1	-1	-1	-1	-1

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##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
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##		1	1	1	1	1	1	1	1
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##	38	0	0	0	0	0	0	0	0
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##	40	-1	-1	-1	-1	-1	-1	-1	-1
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##			0				0	0	
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##	56	-1	-1	-1	-1	-1	-1	-1	-1
##	57	-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
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##		-1	-1	-1	-1	-1	-1	-1	-1
##									
		1	1	1	1	1	1	1	1
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##		-1	-1	-1	-1	-1	-1	-1	-1
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##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##	70	-1	-1	-1	-1	-1	-1	-1	-1
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##	72	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
		_	_	=	=	_	-	_	=

##		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
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##		1	1	1	1		1	1	1
##		-1	-1	-1	-1		-1	-1	-1
##		1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1		-1	-1	-1
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##	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
##		-1	-1	-1	-1		-1	-1	-1
##		0	0	0	0		0	0	0
##		-1	-1	-1	-1		-1	-1	-1
##		0	0	0	0		0	0	0
##		1							
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##		1	1	1	1		1	1	1
	100	0	0	0	0		0	0	0
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##	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
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##	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
	114	0	0	0	0	0	0	0	0
	115	-1	-1	-1	-1		-1	-1	-1
		0			0			0	0
	116		0 MADT	0			0		
##	4							cn_B4GALNT2	
##		0	0	0	0	0	0	0	0
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##		1	1	1	1	1	1	1	1
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##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-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									
## 14	## 12	0	0	0	0	0	0	0	0
## 15	## 13								-1
## 16 0 0 0 0 0 0 0 0 0 0 0 0 0		0	0	0	0	0	0	0	0
## 17	## 15	0	0		0	0	0	0	0
## 18		0	0	0	0	0	0	0	0
## 19	## 17								
## 20	## 18								
## 21									-1
## 22									
## 23									
## 24									
## 25									
## 26									
## 27									
## 28									
## 29 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 30 0 0 0 0 0 0 0 0 0 0 0 0									
## 31									
## 32									
## 33									
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## 35 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 36 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 37 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 38									
## 39 1 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>									
## 40 -1									
## 41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 42 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 44 2 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>									
## 44 2 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>									
## 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 46 0 0 0 0 0 0 0 0 ## 48 1 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>									
## 47 0 0 0 0 0 0 0 ## 48 1 1 1 1 1 1 1 1 ## 50 0 0 0 0 0 0 0 0 ## 51 -1									
## 48 1 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>									
## 49 1 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>									
## 50 0 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>									
## 51 -1									
## 52 0 0 0 0 0 0 0 ## 53 -1 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>									
## 53 -1									
## 54 0 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>									
## 55 0 0 0 0 0 0 0 0 ## 56 -1									
## 56 -1									
## 57 -1									
## 58 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 59 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 60									
## 61 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							1		
## 62 -1 -1 2 2 2 2 2 2 2 2 ## 63 1 1 1 1 1 1 1 1 1 1 1 1 1			0						
## 63 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				2					
			1				1		
## 65 -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

	00	^	0	^	^	0	^	•	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	2	2	2	2	2	2
##	71	0	0	0	0	0	0	0	0
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##	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
##		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
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##		-1	-1	-1	-1	-1	-1	0	0
##		-1	-1	-1	-1	-1	2	2	2
##		-1	-1	2	2	2	2	2	2
##		-1	-1	-1	-1	-1	-1	-1	-1
##	95	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	2	2
##	97	0	0	0	0	0	0	0	0
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##	99	1	1	1	1	1	1	1	1
##	100	0	0	0	0	0	0	0	0
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	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
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	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
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	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
##							_PPM1E cn_PR		-
##	1	0	0	0	0	0	0	0 0	
##		1	1	1	1	1	1	1 1	

н н о	4	4	4	4	0	0	^	4
## 3 ## 4	1	1	1	1	0	0	0	1
## 4 ## 5	0 0	0 0	0	0	0	0	0	0
## 6	-1	-1	-1	-1	0	0 -1	0 -1	-1
## 7	0	0	0	0	-1 0	0	0	0
## / ## 8	-1	-1	-1	-1	-1	-1	-1	-1
## 9	1	1	1	1	1	1	1	-1 -1
## 9 ## 10	0	0	0	0	0	0	0	0
## 10 ## 11	0	0	0	1	1	1	1	1
## 11 ## 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
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## 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
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## 35	0	0	0	0	0	0	0	0
## 36	0	0	0	0	0	0	0	0
## 37 ## 38	0	0	1	1 0	1	1 0	1 0	1 0
## 30 ## 39	0 1	0 1	0 1	1	0 1	1	1	1
## 39 ## 40	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	1	1	1	1	1	1
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## 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
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##		1	1	1	1	1	1	1	1
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	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
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##									
		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	2	2	1	2	2	2
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		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
##		-1	-1	-1	-1	0	0	0	0
##		0	0	0	0	0	0	0	0
##		2	2	-1	-1	2	2	-1	2
##		0	0	0	0	0	0	0	0
##		2	2	2	2	2	2	2	2
##					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 ()
##	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	${\tt cn_CACNG1}$	cn_SLC16A6	cn_ABCA8	cn_ABCA9
##	1	0	0	0	0	0	0	0	0
##	2	1	1	1	1	1	1	1	1
##		2	2	0	0	0	2	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
	6	2	2	2	2	2	2	2	2
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	1	-1	-1
##		0	0	0	0	0	0	0	0
## ##		1 0	1 0	1	1 0	1 0	1 0	1	1 0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		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
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	1	1	1	1	1
##		0	0	0	0	0	0	0	0
## ##		1 1	1	1 1	1 1	1 1	1	1 1	1 1
##		0	1 0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	2	2	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		-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
##		0	0	0	0	0	0	0	0
##		2	2	2	2	2	2	2	2
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##	47	0	0	0	0	0	0	0	0

##		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
##		-1	-1	2	1	1	2	2	2
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1				0	0	0	
			-1	-1	0				0
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		2	2	2	2	2	2	1	1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		-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
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	1	-1	-1
##									
		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	2	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	-1	0	0	0	-1	-1
##		0	0	0	0	0	0	0	0
##		2	2	2	2	2	2	2	2
##		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
	116	0		0					0	
	110		0	0	0	0 0		0	0	0
##	4	cn_ABCA6 cn_A								
##		0	0	0	0	0	0	0		
##		1	1	1	1	1	1	1		
##		1	1	1	1	1	1	0		
##		0	0	0	0	0	0	0		
##		0	0	0	0	0	0	0		
##		2	2	2	2	2	2	2		
##		0	0	0	0	0	0	0		
##		-1	-1	-1	-1	-1	-1	-1		
##		-1	-1	2	2	2	-1	-1		
##		0	0	0	0	0	0	0		
##		1	1	1	1	1	1	1		
##		0	0	0	0	0	0	0		
##		1	1	1	1	1	1	1		
##		0	0	0	0	0	0	0		
##		0	0	0	0	0	0	0		
##		0	0	0	0	0	0	0		
##		1	1	1	1	1	1	1		
##		1	1	1	1	1	1	1		
##		-1	-1	-1	-1	-1	-1	-1		
##		0	0	0	0	0	0	0		
##		1	1	1	1	1	1	1		
##		-1	-1	-1	-1	-1	-1	-1		
##		-1	-1	-1	-1	-1				
##		1	1	1	1	1	1	1		
##		0	0	0	0	0	0	0		
##		1	1	1	1	1	1	-1		
##		0	0	0	0	0	0	0		
##		1	1	1	1	1	1	1		
##		1	1	1	0	0	0	0		
##		0	0	0	0	0	0	0		
##		1	1	1	1	1	1	1		
##		1	1	1	1	1	1	1		
##		0	0	0	0	0	0	0		
##		0	0	0	0	0	0	0		
##		0	0	0	0	0	0	0		
##		0	0	0	0	0	0	0		
##		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
##		-1	-1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		2	2	2	2	2	2	2
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		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
##		0	0	0	0	0	0	0
##		2	2	2	2	2	2	1
##		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	_	_	_	_	_	_
##		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
##		-1	-1	1	1	-1	-1	-1
##		0	0	0	0	0	0	0
##	11	1	1	1	1	1	1	0
	12	0	0	0	1	1	1	-1
##		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
##		1	1	1	1	1	1	-1
##		-1	-1	-1	-1	-1	-1	0
##		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
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	-1
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
17 11	20	U	U	U	J	U	J	U

##		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
##		0	0	0	0	0	0	0
##		0	0	0	0	0	-1	-1
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	0
##	38	0	0	0	0	0	0	0
##		1	1	1	1	1	1	0
##		-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	2	0
	42	1	1	1	1	1	2	0
##		0	0	0	0	0	0	1
	44	2	2	2	2	2	2	0
##		0	0	0	0	0	0	-1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
	48	0	0	0	0	0	0	0
##		1	1	1	1	1	1	0
##		0	0	0	0	0	0	0
##		1	1	1	2	1	1	-1
	52	0	0	0	0	0	0	0
	53 54	0	0	2	0	0	-1	0
##	54 55	0	0	0	0	0	0	0 -1
##		0	0	0	0	0	0	1
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	-1
##		1	1	1	1	1	1	2
##		1	1	1	1	1	1	-1
##		0	0	0	0	0	0	1
	62	1	1	1	1	1	1	1
##		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
##		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
## 86	1		1	1	1	1	1
## 87	(0	0	0	0	0
## 88	2		2	0	0	0	-2
## 89	(0	0	0	0	-1
## 90	1		1	1	1	1	1
## 91	(0	0	0	0	1
## 92	(0	0	0	0	-1
## 93	1		1	1	2	2	1
## 94	-1		-1	0	0	0	0
## 95	(0	0	0	0	0
## 96	(0	0	0	-1	0
## 97	(0	1	1	1	0
## 98	1		1	1	1	1	-1
## 99	1		1	1	1	1	-1
## 100			1	1	1	1	0
## 101			-1	-1	-1	-1	-1
## 102			0	0	0	0	0
## 103			0	0	0	0	0
## 104			-1	-1	-1	-1	-1
## 105			2	2	2	2	0
## 106			1	1	1	1	1
## 107			0	0	0	0	0
## 108		1	1	1	1	-1	1
## 109		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	0	0
## 113	3 1	1	1	1	1	1	1
## 114	. (0	0	0	0	0	1
## 115	5	0	0	0	0	0	1
## 116	; (0	0	0	0	0	0
##	cn_ADCYAP1 cr	n_MYOM1 cn_I	DLGAP1 cn_	LAMA1 cn	_CIDEA cn_0	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 ## 10	0	0	0 _1	0 _1	0 _1	0	0
## 18	-1	-1	-1	-1	-1	-1	-1
## 19 ## 20	0	0	0	0	0	0	0
## 20	0	0	0	0	0	0	-1

##		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
##		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
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	1	1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##			0	0	0	0	0	0
##		0	0	-1		-1		
##		0	0		-1 0	0	-1	-1 0
	5 4	0 -1	-1	0		-1	0 -1	
	56	1	1	-1 1	-1 1	1	1	-1 1
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1
##		2	2	2	2	2	2	0
##		-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1
##		1	1	1	1	-1	-1	1
##		-1	-1	-1	-1	-1 -1	-1 -1	-1
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
		0	0		0	0		
## ##		0	0	0	0	0	0	0
		0	0	0	0	0	0	0
##			0	0			0	
##		0		0	0	0		0
##		0	0 -1		0		0_1	0_1
##		-1 -1		-1 -1	-1 -1	-1 -1	-1 -1	-1 -1
##		-1	-1	-1	-1			-1 0
##		0	0	0	0	0	0	0
##	14	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
##		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
##	110	cn_GREB1L cn_							on DCC1	
##	1	O 0	_LAMAS CII_A O	0	0	0 0	0 0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	1	1	1	1	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		-1	-1	2	2	2	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0	0
##		2	2	2	2	2	2	2	2	2
##		0	2	2	2	1	2	2	2	2
##	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	-1	-1	-1	-1	-1
## 13	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 14	0	0	0	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	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 19	0	0	0	0	0	0	0	0	0
## 20	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 21	0	0	0	0	0	0	0	0	0
## 22	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 23	0	0	0	0	0	0	0	0	0
## 24	1	1	1	1	1	1	1	1	1
## 25	0	0	0	0	0	0	0	0	0
## 26	-1	0	0	0	0	0	0	0	0
## 27	0	0	0	0	0	0	0	0	0
## 28	1	1	1	1	1	1	1	1	1
## 29	0	0	0	0	0	0	0	0	0
## 2 <i>9</i> ## 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	-1	-1	-1	-1	-1
## 33	0	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0	0
## 35	0	0	0	0	0	0	0	0	0
## 36	0	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0	0
## 38	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 39	0	0	0	0	0	0	0	0	0
## 40	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 41	0	0	0	0	0	0	0	0	0
## 42	0	0	0	0	0	0	0	0	0
## 43	1	1	1	1	1	1	1	1	1
## 44	0	0	0	0	0	0	0	0	0
## 45	-	-	-1						
	-1	-1		-1	-1	-1	-1	-1	-1
## 46	0	0	0	0	0	0	0	0	0
## 47	0	0	0	0	0	0	0	0	0
## 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	-1	-1	-1	-1
## 54	0	0	0	0	0	0	0	0	0
## 55	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 56	1	1	1	1	1	1	1	1	1
## 57	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 58	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 59	0	0	1	1	1	1	1	1	1
## 60	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 61	1	1	1	1	1	1	1	1	1
## 62	1	1	1	1	1	1	1	1	1
## 63	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 64	0	0	0	0	0	0	0	0	0
## 65	-1	-1	-1	-1	-1	-1	-1	-1	-1

##		0	0	0	0	0	0	0	0	0
##		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	0	0	0	0	0	0	0	0	0
##	71	-1	-1	-1	-1	-1	-1	-1	-1	-1
##	72	-1	-1	-1	-1	-1	-1	-1	-1	-1
##	73	0	2	2	2	2	2	2	2	2
##		1	1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0	0
##		1	1	2	2	2	2	2	2	2
##		0	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1	1
			-1		-1					
##		-1		-1		-1	-1	-1	-1	-1
##		-1	-1 0	-1 0	-1 0	-1	-1 0	-1 0	-1	-1 0
##		0	0	0	0	0	0		0 0	
## ##						0		0		0
		1	1	1	1	1	1 0	1 0	1	1
##		0		0	0	0			0	0
##		0	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		-1	1	1	1	1	1	1	1	1
##		-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	-1	-1	-1	-1	-1	-1	-1	-1	-1
	105	0	0	0	0	0	0	0	0	0
	106	1	1	1	1	1	1	1	1	1
	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	-1	-1	-1	-1	-1	-1	-1	-1	-1
	111	-1	-1	-1	-1	0	0	0	0	0
##	112	0	0	0	0	0	0	0	0	0
##	113	-1	-1	-1	-1	-1	-1	-1	-1	-1
##	114	1	1	1	1	1	1	1	1	1
##	115	1	1	1	1	1	1	1	1	1
##	116	0	0	0	0	0	0	0	0	0
##		cn_NOL4 cn	_SLC39A6	$cn_SLC14A2$	cn_SIGL	EC15 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	Ö	0	0	0	0	0
## 12	-1	-1	0	0	0	0	0
## 12 ## 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	Ö	0
## 28	1	1	1	1	1	1	1
## 28 ## 29	0	0	0	0	0	0	0
## 29 ## 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
## 47 ## 48	-1	-1	-1	-1	-1	-1	-1
## 48 ## 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
##		- 1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1
##		1	1	1	1	-1	-1	-1
##		-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
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	-1	-1	-1	-1	-1
##		-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
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1		
							-1	-1
##		0	0	0	0	0	0	0
##		-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
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		0	-2	0	0	0	0	0
##		-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
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
	97	0	0	0	0	0	0	0
	98	1	1	1	1	-1	1	1
##		-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_SERPINB2		
##		0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0
	3 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
##		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 24	0	0	0	0	0	0	0
	2 4 25	1	1 0	1 0	1 0	1 0	0	1 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
##		0	0	0	0	0	0	0
##	31	-1	-1	-1	-1	-1	-1	-1
##	32	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
## ##		0	0	0	0	0	0	0 0
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0

##	48	-1	-1	-1	-1	-1	-1	-1
##	49	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		-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
					1	1		
	61	1	1	1			1	1
	62	-1	-1	-1	-1	-1	-1	-1
	63	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##	65	-1	-1	-1	-1	-1	-1	-1
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##	67	0	0	0	0	0	0	0
##	68	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
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##	94	0	0	0	0	0	0	0
##	95	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		1	2	2	2	2	2	2
##		-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	C		0	0	
	103	0	0		0	C		0	0	
##	104	-1	-1		-1	-1		-1	-1	
##	105	0	0		0	C)	0	0	
##	106	1	1		1	1		1	1	
##	107	0	0		0	C)	0	0	
##	108	0	0		0	C)	0	0	
##	109	0	0		0	C)	0	0	
##	110	-1	-1		-1	-1	_	-1	-1	
##	111	0	0		0	C)	0	0	
##	112	0	0		0	C)	0	0	
##	113	-1	-1		-1	-1	_	-1	-1	
##	114	1	1		1	1	_	1	1	
##	115	1	1		1	1	_	1	1	
##	116	0	0		0	C)	0	0	
##		cn CBLN2	cn_NETO1	cn GZMM	cn HCN2	cn AZU1	cn LPPR3	cn CFD	cn KISS	1R
##	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			
##	14	-1 0	-1	0	-1 0	0		-1		-1
##			0				0	0		0
	15	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
##		-1	-1	-1	-1	-1	-1	-1		-1
##		0	0	1	1	1	1	1		1
##		1	1	0	0	0	0	0		0
##		0	0	0	0	0	0	0		0
##		0	0	-1	-1	-1	-1	-1		-1
##		0	0	-1	-1	-1	-1	-1		-1
##		1	1	1	1	1	1	1		1
##		0	0	0	0	0	0	0		0
##		0	0	0	0	0	0	0		0
##		-1	-1	1	1	1	1	1		1
##		-1	-1	0	0	0	0	0		0
##		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
##		-1	-1	0	0	0	0	0		0

##	20	0	0	0	0	0	0	0	0
##		-1	-1	-2	-2	-2	-2	-2	-2
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	0	0	0	0	0	0
##		0	0	-1	-1	-1	-1	-1	-1
##		-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
##		1	1	-1	-1	-1	-1	-1	-1
##		-1	-1	0	0	0	0	0	0
##		-1	-1	0	0	0	0	0	0
##		-1	-1	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
## ##		0	0	0	0	0	0	0	0
##		-1	-1	0	0	0	0	0	0
##		-1 -1	-1 -1	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	-2	-2	-2	-2	-2	-2
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	1	1	1	1	1	1
##		-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
##		0	0	-1	-1	-1	-1	-1	-1
##		1	1	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	-1	-1	-1	-1	-1	-1
##		-1	-1	0	0	0	0	0	0
##		1	1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##	92	0	0	-1	-1	-1	-1	-1	-1

	00			4					4	
	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 c	n_LRG1 cı	n_PLIN4	cn_PLIN5	cn_FUT3	cn_FUT6	cn_CAPS o	cn_PCP2
##	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	-1	-1	-1	-1	-1	-1	-1	-1	-1
##	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	0	0	0	-1
##		1	-1	-1	-1	-1	-1	-1	-1	2
	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	-1	-1	-1	-1	-1	-1	-1	-1	-1
	14	0	0	0	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	1	1	1	1	1	1	1	1	1
	18	0	0	0	0	0	0	0	0	0
	19	0	0	0	0	0	0	0	0	0
	20	-1	-1	-1	-1	-1	-1	-1	-1	-1
	21	0	0	0	0	0	0	0	0	0
	22	-1	-1	-1	-1	-1	-1	-1	-1	-1
	23	1	1	1	1	1	1	1	1	1
	24	0	0	0	0	0	1	1	1	1
	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	-1	-1	-1	-1	-1
##	28	1	1	1	1	1	1	1	1	1
##	29	0	0	0	0	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	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	0	0	0
## 35	2	2	-1	-1	-1	1	1	1	1
## 36	0	0	0	0	0	0	0	0	0
## 37	0	0	0	0	0	0	0	0	0
## 38	0	0	0	0	0	0	0	0	0
## 39	0	0	0	0	0	0	0	0	0
## 40	-2	-2	-2	-2	-2	1	1	1	1
## 41	1	1	1	1	1	2	2	2	2
## 42	0	0	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0	0	0
## 44	-1	2	2	2	2	2	2	-1	2
## 45	0	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0	0
## 47	1	1	1	1	1	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	-2	-2	-2	-2	-2	0	0	0	0
## 52	0	0	0	0	0	0	0	0	0
## 53	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 54	-1	-1	-1	-1	-1	-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	0	0	0	0
## 58	0	0	0	0	0	0	0	0	0
## 59	0	0	0	0	0	0	0	0	0
## 60	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0	0	0
## 62	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 63	0	0	0	0	0	0	0	0	0
## 64	0	0	0	0	0	0	0	0	0
## 65	0	0	0	0	0	0	0	0	1
			0				0		0
## 66	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	0	0	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	0	0	0
## 72	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 73	0	0	0	0	0	0	0	0	0
## 74	1	1	1	1	1	1	1	1	1
## 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	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 79	1	1	1	1	1	1	1	1	1
## 79	-1	-1	-1	-1	-1	-1	-1	-1	-1
## 80 ## 81	-1 -1	-1 -1	2	2	2	-1 -1		-1 -1	
							-1		-1
## 82	0	0	0	0	0	0	0	0	0
## 83	0	0	0	0	0	0	0	0	0

##		0	0	0	0	0	0	0	0	0
##	85	-1	-1	-1	-1	-1	-1	-1	-1	-1
##	86	0	0	0	0	0	0	0	0	0
##	87	0	0	0	0	0	0	0	0	0
##	88	1	1	1	1	1	1	1	1	1
##	89	0	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
##										
		-1	-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1	-1
	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	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	-1	2	2	1	2
	106	0	0	0	0	0	0	0	0	0
	107	0	0	0	0	0	0	0	0	0
	108	-1	-1	-1	-1	-1	-1	-1	-1	-1
	109	0	0	0	0	0	0	0	0	0
	110	-1	-1	-1	-1	-1	-1	-1	-1	-1
	111	0	0	0	0	0	0	0	0	0
	112	-1	-1	-1	-1	-1	-1	-1	-1	-1
	113	0	0	0	0	0	0	0	0	0
	114	0	0	0	0	0	0	0	0	0
	115	1	1	1	1	1	1	1	1	1
##	116	0	0	0	0	0	0	0	0	0
##		cn_FCER2		cn_MUC16	cn_P2RY11	cn_ICAM5	cn_MAST1	cn_PAl	LM3 cn_S	SLC1A6
##		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
##		-1	-1	-1	-1	-1	-1		-1	-1
##		0	0	0	0	0			0	0
##		-1	-1	-1	-1	-1	-1		2	2
##		0	0	0	0	0			0	0
##		-1	-1	-1	-1	-1	-1		-1	-1
##		2	2	2	2	2			1	2
##		0	0	0	0	0			0	0
##		0	0	0	0	0	0		0	0
##		0	0	0	0	0	0		0	0
##		-1	-1	-1	-1	-1	-1		-1	-1
##		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
##		1	1	1	1	1	1		1	1
##		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
##		-1	-1	1	2	2	0	0	0
##		1	1	1	1	1	1	1	1
	24	1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
## ##		0 1	0 1	0 1	0	0 1	0 1	0 1	0
##		0	0	0	1 0	0	0	0	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		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
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##		2	2	2	2	2	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
## ##		0	0	0 0	0	0	0	0	0
##		-1	-1	0	0	0	0 1	0 1	0
##		-1	-1	-1	-1	-1	-1	-1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
## ##		0 -1	0 -1	0 -1	0 -1	0 -1	0	0	0 0
	73	0	0	0	0	0	0	0	0
	74	1	1	1	1	1	1	1	1
ii m	, 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			2		2		2			
		-1	-1						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
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##	88	1	1	1		1		1	1	1	1
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##	90	-1	-1	-1		-1		-1	-1	-1	-1
##	91	-1	-1	-1		-1		-1	-1	-1	-1
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##	94	0	0	0		0		0	0	0	0
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	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
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##	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
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	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_CYF	94F22 d	cn_CY		cn_	CYP4F3 cn	_CYP4F12	cn_UCA1
##		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
##		0	0		0		0		0	0	0
##		2	2		2		2		2	2	2
##		0	0		0		0		0	0	0
##		-1	-1		-1		-1		-1	-1	-1
##		2	2		2		2		2	2	2
	10	0	0		0		0		0	0	0
##	11	0	0		0		0		0	0	0

		_	_	_	_			
##		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
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##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
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##	26	-1	-1	-1	-1	-1	-1	-1
##	27	-1	-1	-1	-1	-1	-1	-1
##	28	1	1	1	1	1	1	1
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##	30	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		0	0	Ö	0	0	0	0
##		0	0	Ö	0	0	0	0
##								
		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		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
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##	45	0	0	0	0	0	0	0
##	46	0	0	0	0	0	0	0
	47	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
		-	-	-	-	-	-	-

##		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	
##		1	1	1		1	1		1	1	
##	. –	1	1	1		1	1		1	1	
##		1	1	1		1	1		1	1	
##		0	0	0)	0		0	0	
##		1	1	1		1	1		1	1	
##		1	1	1		1	1		1	1	
##		-1	-1	-1	-		-1		-1	-1	
##		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	
##	87	0	0	0		0	0		0	0	
##	88	1	1	1		1	1		1	1	
##		0	0	0		0	0		0	0	
##		-1	-1	-1	_		-1		-1	-1	
##		-1	-1	-1	_		-1		-1	-1	
##		-1	-1	-1	_		-1		-1	-1	
##		0		0)	0		0	0	
			0								
##		0	0	0		0	0		0	0	
##		0	0	0		0	0		0	0	
##		0	0	0		0	0		0	0	
##		-1	-1	-1	-		-1		-1	-1	
	98	0	0	0		0	0		0	0	
	99	-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	0	0	0		0	0		0	0	
##	105	2	2	2		2	2		2	2	
##	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	
	111	0	0	0		0	0		0	0	
	112	-1	-1	-1	-		-1		-1	-1	
	113	-1	-1	-1	_		-1		-1	-1	
	114	0	0	-1)	0		0	0	
	115										
		1	1	1		1	1		1	1	
	116	0 CVD4E11	0	O CDAMDO) - TDDD10	0	01 07440	0	0	HOM
##	4		cn_NWD1 cn				cn_		cn.		
##		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	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
## 3	8	-1	-1	-1	-1	1	1	1	0
## 9		2	2	2	2	1	1	1	2
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1					0
					-1	0	0	0	
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		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
## :		1	1	1	1	1	1	1	1
## :		0	0	0	0	0	0	0	0
## :		-1	-1	-1	-1	1	1	1	1
## :		-1	-1	-1	-1	-1	-1	-1	-1
## :		1	1	1	1	1	1	1	1
## :		0	0	0	0	0	0	0	0
## 3		0	0	0	0	0	0	0	0
## 3		1	1	1	1	1	1	1	1
## 3		0	0	0	0	0	0	0	0
## 3	33	0	0	0	0	0	0	0	0
## 3		0	0	0	0	1	1	1	1
## 3	35	1	1	1	1	1	1	1	1
## 3	36	0	0	0	0	1	1	1	1
## 3	37	0	0	0	0	0	0	0	0
## 3	38	0	0	0	0	-1	-1	-1	-1
## 3	39	0	0	0	0	0	0	0	0
## 4		1	1	1	1	2	2	2	2
## 4		1	1	1	1	0	0	0	0
## 4		0	0	0	0	0	0	0	0
## 4		0	0	0	0	1	1	1	1
## 4		1	1	1	1	2	1	1	1
## 4		0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0
## 4									
## 4		1	1	1	1	1	1	1	1
## 4		-1	-1	-1	-1	-1	-1	-1	-1
## 4		0	0	0	0	0	0	0	0
## !		0	0	0	0	0	0	0	0
## !		0	0	0	0	0	0	0	0
## !		0	0	0	0	0	0	0	0
## !		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
## !		1	1	1	1	1	1	1	1

##	57	0	0	0	0	0	0	0	0
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##	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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	-1	-1	-1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##									
		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		1	1	1	1	0	0	0	0
##		1	1	1	1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		1	1	1	-1	1	1	1	1
##		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
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##	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
##		-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
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			•	•	•		•	•	•	
	111		0	0	0	0	0	0		-1
	112		-1	-1	-1	-1	2	2		2
	113	•	-1	-1	-1	2	0	0		0
	114		0	0	0	0	0	0		0
	115		1	1 0	1 0	1	1 0	1 0	1 0	1
##	116	cn EYVD1				0 cn gran		cn_HSPB6		0
##	1	1	1	1	1	1	1	1	1	
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##	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 30	0	0	0	0	0	0	0	0	
##		1	1	1	1	1	1	1	1	
##		0	0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	0	
##		1	1	1	1	1	1	1	1	
##		1	1	1	1	1	1	1	1	
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	4.0								
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	73 74								
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##	11 12	0		0	0	0	0		0
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##		-1		-1	-1	-1	-1	-1	-1
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	97		-1	-1	-1	-1	-1	-1	-1
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##	108		-1	-1	-1	-1	-1	-1	-1
##	109		0	0	0	0	0	0	0
##	110		0	0	0	0	0	0	0
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##	11	0	0	0	0	0			0
##	12	0	0	0	0	0			0
##		0	0	0	0	0			0
##	14	0	0	0	0	0			0
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##		0	0	0	0	0			0
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	23	-1	-1	-1	-1	-1			-1
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##		-1	-1	-1	-1	-1			-1
	28	1	1	1	1	1			1
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## 32 0 0 0 0 0 0 0 0 0 0 0 0 0								
## 33								
## 34								
## 36		1	1	1	1	1	1	1
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## 39	## 37	0	0	0	0	0	0	0
## 40	## 38	-1	-1	-1	-1	-1	-1	-1
## 41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 42 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	## 39	0	0	0	0	0	0	0
## 42	## 40	2	2	2	2	2	2	2
## 43		0	0	0	0	0	0	0
## 44				0	0	0	0	0
## 45								
## 46								
## 47								
## 48								
## 49								
## 50 0 0 0 0 0 0 0 0 0 0 0 0								
## 51 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 52 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								
## 52 0 0 0 0 0 0 0 0 0 0 0 0 0								
## 53								
## 54								
## 55 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 56 1 1 1 1 1 2 2 2 2 2 2 11 ## 57 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								
## 56								
## 57 0 0 0 0 0 0 0 0 0 0 0 0 0								
## 58 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								
## 59 0 0 0 0 0 0 0 0 0 0 0 0 0								
## 61 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 -1 ## 66 0 0 0 0 0 0 0 0 0 ## 67 0 <th></th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th>		0	0	0	0	0	0	0
## 62 -1		-1	-1	-1	-1	-1	-1	-1
## 63 0 0 0 0 0 0 ## 64 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 ## 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 <td< th=""><th>## 61</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th></td<>	## 61	0	0	0	0	0	0	0
## 64 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 ## 77 0 0 0 0 0 0	## 62	-1	-1	-1	-1	-1	-1	-1
## 65 -1	## 63	0	0	0	0	0	0	0
## 66 0 0 0 0 0 0 ## 67 0 0 0 0 0 0 ## 68 0 0 0 0 0 0 ## 69 0 0 0 0 0 0 ## 70 0 0 0 0 0 0 ## 71 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 1 ## 75 0 0 0 0 0 0 0 0 0 ## 76 -1 -1 -1 -1 -1 -1 -1 -1 ## 78 1 1 1 1 1 1 1 1 1 ## 79 1		0	0	0	0	0	0	0
## 67 0 0 0 0 0 0 ## 68 0 0 0 0 0 0 ## 69 0 0 0 0 0 0 ## 70 0 0 0 0 0 0 ## 71 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								
## 68 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 1 ## 75 0 0 0 0 0 0 0 0 0 0 ## 76 -1 -1 -1 -1 -1 -1 -1 -1 -1 +1 1 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
## 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 0 ## 74 1								
## 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 1 ## 75 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 1 ## 75 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 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 1 ## 80 1 1 1 1 1 1 1 1 1 1 1 ## 81 2 -1								
## 73 0 0 0 0 0 0 ## 74 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 1 ## 80 1								
## 74 1 -1								
## 75 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								
## 76 -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 1 ## 80 1 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
## 78 1 1 1 1 1 1 ## 79 1 1 1 1 1 1 1 ## 80 1 1 1 1 1 1 1 1 ## 81 2 -1 -1 -1 -1 -1 -1 -1 ## 82 0 0 0 0 0 0 0								
## 79 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
## 80 1 1 1 1 1 1 1 1 1 1 1 1 ## 81 2 -1 -1 -1 -1 -1 -1 +# 82 0 0 0 0 0 0 0 0 0								
## 81 2 -1 -1 -1 -1 -1 -1 -1 ## 82 0 0 0 0 0 0 0								
## 82								
		0				0		

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	111	-1	-1	-1	-1	-1	-1	-1	
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##	110	cn_CEACAM5							EUA V 3
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##		-1	-1	-1	-1	-1	1	1	1
##		1	1	1	1	2		2	-1
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	13	0			0		0		
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##	∠0	2	2	2	2	-1	-1	-1	-1

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##		-1	-1	-1	-1	-1	-1	-1	-1
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##		0							
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##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		2	2	2	2	-1	2	2	2
##		0	0	0	0	0	0	0	0
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##	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
##		0	0	0	0	0	-1	-1	-1
##	60	-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
π#	1 =	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
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##	87	0	0		0	0	0	0	0	0
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	90	0	0		0	0	0	0	0	0
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	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
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	101	0	0		0	0	0	0	0	0
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	103	0	0		0	0	0	0	0	0
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	105	0	0		0	0	0	0	0	0
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	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
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##		cn_KCNC3 cn		LK6 c						
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##		0	0	0	0	0	0	0	0	
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##		0	0	0	0	0	0	0	0	
##		1	1	1	1	1	1	1	1	
##		-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
## 3 4 ## 35	1	1	1	1	1	1	1	1
## 36	0	0	0	0	0	0	0	0
## 36 ## 37	0	0	0	0		0	0	
## 37 ## 38	-1	-1		-1	0 -1	-1		0 -1
## 30 ## 39	0	0	-1 0	0			-1	
## 39 ## 40	-1	-1			0	0	0	0 -1
## 40 ## 41			-1	-1	-1	-1	-1	
	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 ## 45	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	0
## 47 ## 48	1	1	1	1	1	1	1	1
	-1	-1	-1	-1	-1	-1	-1	-1
## 49 ## 50	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
## 51 ## 52	0	0	0	0	0	0	0	0
	0		0	0	0	0	0	0
## 53 ## 54	-1	-1	-1	-1	-1	-1	-1	-1
## 54 ## 55	1	1 0	1	1	1	1	1	1
	0		0	0	0	0	0	0
## 56 ## 57	-1	-1	-1	-1	-1	-1	-1	-1
## 57 ## 59	0	0	0	0	0	0	0	0
## 58 ## 50	0	0	0	0	0	0	0	0
## 59 ## 60	-1 -1							
## 60 ## 61	-1	-1	-1	-1	-1	-1	-1	-1
## 61	0	0	0	0	0	0	0	0
## 62 ## 63	-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

			•		•	•	•	•	•
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
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##	76	-1	-1	-1	-1	-1	-1	-1	-1
##	77	0	0	0	0	0	0	0	0
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##	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
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##		0	0	0	0	0	0	0	0
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##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
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##		0	0	0	0	0	0	0	0
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##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##				1		1	1		
	100	1	1	1	1	1	1	1 1	1
	100	1	1		1			0	1
		0	0	0	0	0	0		0
	102	0	0	0	0	0	0	0	0
	103 104	0	0	0	0	0	0	0	0
	104	0	0	0	0	0	0	0	0
		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_NLRP2			cn_SYT5
##		1	1	1	1	1	1	1	1
##	2	0	0	0	0	0	0	0	0

## 3		_								
## 5			1	1	1	1	1	1	1	1
## 6										
## 7 0 0 0 0 0 0 0 0 0 0 0 0										
## 8		6	2					2		
## 9			0	0		0		0	0	0
## 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			1			1		1		1
## 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	9	1		1	1	1	1	1	1
## 12 0 0 0 0 0 0 0 0 0 0 0 0 0		10	0	0	0	0	0	0	0	0
## 13		11	0	0	0	0	0	0	0	0
## 14 0 0 0 0 0 0 0 0 0 0 0 0 0	##	12	0	0	0	0	0	0	0	0
## 15	##	13	0	0	0	0	0	0	0	0
## 16	##	14	0	0	0	0	0	0	0	0
## 17	##	15	0	0	0	0	0	0	0	0
## 18	##	16	0	0	0	0	0	0	0	0
## 19	##	17	1	1	1	1	1	1	1	1
## 20	##	18	0	0	0	0	0	0	0	0
## 21 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 22	##	19	0	0	0	0	0	0	0	0
## 22	##	20	-1	-1	-1	2	2	2	2	2
## 23	##	21	0	0	0	0	0	0	0	0
## 24	##	22	-1	-1	-1	-1	-1	1	1	1
## 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	23	-1	-1	-1	0	0	0	0	0
## 26	##	24	1	1	1	1	1	1	1	1
## 27	##	25	0	0	0	0	0	0	0	0
## 28 1 <th>##</th> <th>26</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th>	##	26	1	1	1	1	1	1	1	1
## 29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	27	-1	-1	-1	-1	-1	-1	-1	-1
## 30 0 0 0 0 0 0 0 0 0 0 0 0	##	28	1	1	1	1	1	1	1	1
## 31	##	29	0	0	0	0	0	0	0	0
## 32 0 0 0 0 0 0 0 0 0 0 0 0 0	##	30	0	0	0	0	0	0	0	0
## 33 0 0 0 0 0 0 0 0 0 0 0 0	##	31	1	1	1	1	1	1	1	1
## 34	##	32	0	0	0	0	0	0	0	0
## 35 1 <th>##</th> <th>33</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th>	##	33	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 </th <th>##</th> <th>34</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th>	##	34	1	1	1	1	1	1	1	1
## 37 0 0 0 0 0 0 0 ## 38 -1 <td< th=""><th>##</th><th>35</th><th>1</th><th>1</th><th>1</th><th>1</th><th>1</th><th>1</th><th>1</th><th>1</th></td<>	##	35	1	1	1	1	1	1	1	1
## 38 -1	##	36	0	0	0	0	0	0	0	0
## 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 1 ## 42 0 0 0 0 0 0 0 0 0 ## 43 1	##	37	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 1 ## 44 1	##	38	-1	-1	-1	-1	-1	-1	-1	-1
## 41 1 <th>##</th> <th>39</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th>	##	39	0	0	0	0	0	0	0	0
## 42 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 0 ## 46 0 0 0 0 0 0 0 0 0 0 ## 47 1	##	40	-1	-1	-1	0	0	0	0	0
## 43 1 <th>##</th> <th>41</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th>	##	41	1	1	1	1	1	1	1	1
## 44 1 <th>##</th> <th>42</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th>	##	42	0	0	0	0	0	0	0	0
## 45 0 <th>##</th> <th>43</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th>	##	43	1	1	1	1	1	1	1	1
## 46 0 <th>##</th> <th>44</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th> <th>1</th>	##	44	1	1	1	1	1	1	1	1
## 47 1 <th>##</th> <th>45</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th>	##	45	0	0	0	0	0	0	0	0
## 48	##	46	0	0	0	0	0	0	0	0
## 49 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	47	1	1	1	1	1	1	1	1
## 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	48	-1	-1	-1	-1	-1	-1	-1	-1
## 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	49	0	0	0	0		0		
## 52 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 53 -1 -1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			0	0	0	0		0	0	
## 52 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 53 -1 -1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	##	51	0	0	0	0	0	0	0	0
## 53			0	0				0	0	
## 54 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			-1	-1				1		
## 55 0 0 0 0 0 0 0 0 0										
								0		
			-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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##				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
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		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
##	4					cn_DEFB132			
## ##		1 0	1	1	1 0	1 0	1	1	1
##		1	1	0 1	1	1	1	1	0 1
##		2	2	2	2	0	0	0	0
##		0	0	0	0	0	0	0	0
##		2	2	-1	-1	1	1	1	1
##		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
##		0	0	0	0	1	1	1	1
##		0	0	0	0	-1	-1	-1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	1	1	1	1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	1	1	1	1
## ##		0	0 2	0 2	0 2	1 0	1	1	1 0
##		0	0	0	0	1	1	1	1
##		1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##	26	1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	0	0	0	0
##		1	1	1	1	1	1	1	1
##	29	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	1	1	1	0	0	0	0
##		0	0	0	0	0	0	0	0
## ##		1	1 1	1 1	1	0	0 1	0 1	0 1
##		0	0	0	0	-2	-2	-2	-2
##		0	0	0	0	1	1	1	1
##		-1	-1	-1	-1	1	1	1	1
##		0	0	0	0	1	1	1	1
##		0	0	0	0	1	1	1	1
##		1	1	1	1	0	0	0	0
##	42	0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		1	1	1	1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##	47	1	1	1	1	0	0	0	0

	40	4	4		4	4	4	_	4
##		-1	-1	-1	-1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	1	1	1	1
##		0	0	0	0	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		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
##		1	1	1	1	1	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##	75	0	0	0	0	-1	-1	-1	-1
##		-1	-1	-1	-1	1	1	2	2
##		0	0	0	0	0	0	0	0
##	78	1	0	0	0	1	1	1	1
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	1	1	1	1
##		0	0	0	0	-1	-1	-1	-1
##		0	0	0	0	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	-1	-1	-1	-1
##		0	0	0	0	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	-1	-1	-1	0
##		0	0	0	0	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	0	0	0	0
##		-1	-1	-1	-1	1	1	1	1
##		0	0	0	0	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	0	0	0	0
##		0	0	0	0	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
	100	1	1	1	1	1	1	1	1
	100	0	0	0	0	1	1	1	1
##	TOT	U	U	U	U	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
	110 111	0	0	0		1 0	-1 -1	-1 -1	-1 -1 -1 -1
	112	2	2	2		2	-1	-1 -1	-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 CHGB	cn_FERMT1			
	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 19	1	1	1 1	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
##		-1	-1	-1	-1	-1	2	2	2
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		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
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		-2	-2	-2	-2	-2	-2	-2	-2
##		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
##		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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		2	2	2	-1	1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		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
##		-1	-1	-1	-1	-1	-1	-1	-1
##		2	2	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	-1	-1	1	-2
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	1
##		1	1	1	1	1	1	1	1
ππ	02	1	1	1	T	1	1	1	Τ.

##	93	-1	-1	-1	-1	-1	2	2	-1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		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 cr	n_PTPRT cn	BCAS1 c	n_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
##		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
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		1	1	2	2	2	2	2	2
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		-1	2	2	2	2	2	2	2
	21	1	1	1	1	1	1	1	1
##		2	2	2	2	2	2	2	2
## ##		0	0	0	0	0	0	0	0
		1 0	1 0	1 0	1 0	2	1	1	1
## ##								0	0 1
##		1 0	1 0	1 0	1 0	1 0	1 0	1 0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##	23	U	U	U	U	U	U	U	U

##	30	0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	0	2	2	0	0	2	2
##		1	1	1	1	1	1	1	1
##		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
##		-1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		-1	1	1	1	1	1	1	1
## ##	64	1	1	1 0	1 0	1 0	1	1	1
##	65	0 1	1	1	1	1	0 1	0 1	0 1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		-1	-1	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		0	0	1	1	1	1	1	1
##		1	-1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		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

##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0	0
	88	-1	0	0	0	0	0	0	0
##		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
##	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	0	0	0
##	105	0	0	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	0	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	0	1	1	1	1	1	1
##	112	-1	0	0	0	0	0	0	0
##	113	1	1	2	2	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
##		${\tt cn_APCDD1L}$	cn_ZNF831	cn_EDN3	cn_GATA5	cn_COL9A3	cn_EEF1A2	cn_SRMS	cn_MYT1
##	1	1	1	1	1	1	1	1	1
##	2	0	0	0	0	0	0	0	0
##	3	2	2	2	2	2	2	2	2
##	4	2	2	2	2	2	2	2	2
##	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	1	1	-1	-1	-1	-1	-1
##	10	0	0	0	0	0	0	0	0
##	11	2	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
##		0	0	0	0	0	0	0	0
##	15	0	0	0	0	0	0	0	0
##		1	1	1	1	1	1	1	1
##		2	-1	-1	-1	-1	1	1	1
##		1	1	1	1	1	1	1	1
##		1	1	1	1	1	1	1	1
##		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	
##		1	1	1	1	1	1	1 1	
##		0	0	0	0	0	0	0 0	
	26	1	1	1	1	1	1	1 1	
##		0	0		0	0	0		
				0					
	28	1	1	1	1	1	1	1 1	
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##	1	cn_ABCC13 cn_							
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шш	66	0	0	^	^	^		0	0	
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	_						_	_	
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##	47	0	0	0	-1	-1	-1	-1	-1
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		-	-	-	~	•	•	•	-

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		-1	-1	-1	-1		-1	-1	-1
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##		1	1	1	-1	-1	-1	-1	-1
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	101	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
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##	110	-1	-1	-1	-1	-1	-1	-1	-1

##	111		1	1	0	0	0	0	0 ()
##	112		-1	-1	-1	-1	-1 -	1 -	1 -1	L
	113		-1	1	1	0	0	0	0 ()
	114		0	0	0	0			0 (
	115		1	1	1	0	0	0	0 (
	116	TDV4	0 DDAME	0 VDDED3	0 MMD4.4	-1	_	_	1 -1	L
## ##	1	cu_lbx1	cn_PRAME 0	cn_vpkebs	cn_MMP11	cn_GSIII	cn_MYO18B	cn_SEZ6L	cn_NEFH 0	
	2	0	0	0	0	0	0	0	0	
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	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	
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	8	0	0	0	0	0	1	1	-1	
	9	1	2	2	2	2	2	0	2	
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## ##		-1 1	-1 1	-1 1	-1 1	-1 1	-1 1	-1 1	-1 1	
##		-1	-1	-1	-1	-1	-1	-1	-1	
##		-1	-1	-1	-1	-1	-1	-1	-1	
##		-1	-1	-1	-1	-1	-1	-1	-1	
##		-1	-1	-1	-1	-1	-1	-1	-1	
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##		-1	-1	-1	-1	-1	-1	-1	-1	
##		-1	-1	-1	-1	-1	-1	-1	-1	
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##		-1	-1	-1	-1	-1	-1	-1	-1	
## ##		0	0	0 1	0	0 1	0 1	0 1	0 1	
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##		-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	
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##		0	0	0	0	0	0	0	0	
##		-1	-1	-1	-1	-1	-1	-1	-1	
##		-1	-1	-1	-1	-1	-1	-1	-1	
## ##		-1	-1	-1	-1	-1	-1	-1	-1	
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##		0	0	0	0	0	0	0	0	
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## ##		-1 0	-1 0	-1 0	-1 0	-1 0	-1 0	-1 0	-1 0	
##		-1	-1	-1	-1	-1	-1	-1	-1	
		_	_	_	_	_	-	_	-	

	40							4	
##		-1	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-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
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	0	0	0	0	0	0
	72	0	0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		-1 -1	-1 -1	-1 -1	-1	-1	-1 -1	-1 -1	-1 -1
##		-1	-1	-1	-1	-1	-1	-1	-1
##		2	1	1	1	1	1	1	1
##		-1 -1	-1 -1	-1 -1	- <u>1</u>	-1 -1	- <u>1</u>	-1 -1	-1 -1
##		-1 1	-1	-1 -1	- <u>1</u>	-1 -1	-1 -1	-1 -1	-1 -1
##		1 0	1	-1	-1	-1	-1	-1	-1
## ##			0	0	0	0	0	0	0
		0 _1	0	0	0	0	0 _1	0 _1	0
##		-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 0
##	114	0	0	0	0	0	0	0 0
##	115	0	0	0	0	0	0	0 0
##	116	-1	-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
##		-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
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		0	0	0	0	1	1	1
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		-1 -1	-1 -1	-1 -1		-1 -1	-1 -1	-1 -1
			-1		-1 -1		-1 -1	
##		-1 0		0	-1	-1 0	-1	-1 0
##			0	0	0			0
##		0	0	0	0	0	0	0
##		0	0		0			0
##		-1	-1	-1	-1	-1	-1	-1
##	38	-1	-1	-1	-1	-1	-1	-1

			•	•	•	•	•	•
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		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
##		0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0
##		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
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		-1	1	1	-1	0	0	0
##		-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
##		-1	-1	-1	-1	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##				-1 -1		-1 -1	-1 -1	
##	92	-1	-1	-1	-1	-1	-1	-1

	00	4	4	4	4	4	4	4
##		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 c	n_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
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
	27	-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		1	0	0	0	0	0	0
##	23	1	U	0	U	U	U	U

##	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
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	1	1	1	1
##		1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		-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
##		1	1	1	1	1	1	1
	54	-1	-1	-1	-1	-1	-1	-1
	55	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0
	64	0	0		0			
		-		0		0	0	0
	65	1	1	1	1	1	1	1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		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
##		0	0	0	0	0	0	0
##		1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		-1	1	1	1	1	1	1
##		-1	-1	-1	-1	-1	-1	-1
##		2	0	0	0	0	0	0
##	81	-1	-1	-1	-1	-1	-1	-1
##		1	1	1	1	1	1	1
##		-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_PHF21B c				
##	1 2	0	0	0	0	0 0	0 0	0
##	3	-1	-1	-1	-1	-1	-1	0 -1
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		0	0	0	0	0	0	0
##		1	1	1	0	0	0	0
##		-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
##		-1	-1	-1	-1	-1	-1	-1

##		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
##		0	0	0	0	0	0	0
##		-1	-1	-1	1	-1	-1	-1
##		1	1	1	1	1	1	1
	42							
		1	1	1	1	1	1	1
	43	0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		-1	-1	-1	-1	-1	-1	-1
##		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	Ö	0	0	0	0	0
##								0
		0	0	0	0	0	0	
	58	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		-1	-1	-1	-1	-1	-1	-1
##		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
##		-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						
## 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
	0	0
## 36		
## 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
		0
## 46	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
                 0
## 113
                          0
## 114
                 0
                          0
## 115
                 0
                          0
## 116
                 -1
                         -1
## [ reached 'max' / getOption("max.print") -- omitted 391 rows ]
```

##		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
## ##		0	0	0	0	0	0	0	0	0
	32	0	0	0	0	0	0	0	0	1
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	1	0	0
	35	0	0	0	0	0	1	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	1	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	1	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	1
##		0	0	0	0	0	0	0	0	0
##	43	0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	1
##		0	0	0	0	1	0	1	0	0
##	46	0	1	1	1	1	1	0	0	1
##	47	0	0	0	0	0	0	1	0	1
##	48	0	0	0	0	0	0	0	0	0
##	49	0	0	0	0	0	0	0	0	0
##	50	0	0	0	0	0	0	1	0	0

##	51	0	0	0	0	0	0	0	0	0
##	52	0	0	0	0	0	0	0	0	0
##	53	0	0	0	0	0	0	0		0
##		0	0	0	0	0	1	0		0
##		0	0	0	0	0	0	0		0
##		0	0	0	0	0	0	0		0
##		0	0	0	0	0	0	1		1
##		0	0	0	0	0	0	0	0	0
##	59	0	0	0	0	0	0	0	0	0
##	60	0	0	0	0	0	0	0	0	0
##	61	0	0	0	0	0	0	1	0	0
##	62	0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0		0
##		0	0	0	0	0	0	0		0
##		0	0	0	0	0	0	0		0
##		0	0	0	0	0	0	0		0
##		0	0	0	0	0	0	0		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
##		0	0	0	0	0	0	0		0
##		0	0	0	0	0	0	0		0
##		0	0	0	0	0	0	0		1
##		0	0	0	0	0	0	0		0
##		0	0	0	0	0	0	0		0
##		0	0	0	0	0	0	0		0
##		0	0	0	0	0	0	0		0
##		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
##		0	0	0	0	0	0	0		0
##		0	1	0	0	0	0	0		0
##		0	1	0	0	0	0	0		0
##		0	0	0	0	0	0	0		0
##		0	0	0	0	0	0	0		1
##		1	0	0	0	0	0	0		0
##		0	1	0	0	0	0	0		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	0	1	0	0	0	0		0
	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	1	0	0	0	0	0		1
##	104	0	0	0	0	0	0	0	0	0

	4.05	•	•	^	^	•	^	^	•	•
	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
	132	0	0	0	0	0	0	1	0	0
	133	0	0	0	0	0	0	1	0	0
	134	0	0	0	0	0	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	1	0	0	0	0	1
	139	0	0	0	0	0	0	0	0	1
	140	1	1	0	1	0	0	1	0	1
##	141	0	0	0	0	0	0	0	0	0
	142	0	1	0	0	0	0	0	0	0
##	143	0	0	0	0	0	0	0	0	0
##	144	0	0	0	0	0	0	0	0	0
##	145	0	0	0	0	0	1	0	0	0
##	146	0	1	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	1
##	149	0	0	0	0	0	0	0	0	1
##	150	0	0	0	0	0	0	0	0	0
##	151	0	0	0	0	0	0	0	0	0
##	152	0	0	0	0	0	0	0	0	0
##	153	0	0	0	0	0	0	0	0	0
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	155	0	0	0	0	0	0	0	0	0
	156	0	0	0	0	0	1	0	0	0
	157	0	0	0	0	0	0	0	0	0
	158	0	0	0	0	0	0	0	0	0

	450	^	^	^	^	•	^	^	^	^
	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	0	0	0	0
	162	0	0	0	0	0	1	0	1	0
##	163	0	0	0	0	0	0	0	0	0
##	164	0	0	0	1	1	0	0	0	0
##	165	0	0	0	0	0	0	0	0	0
##	166	0	0	0	0	0	0	0	0	0
##	167	0	1	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	1	0	0
##	171	0	0	0	0	0	0	1	0	0
##	172	0	0	0	0	0	0	0	1	0
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	176	0	0	0	0	0	0	0	0	0
	177	0	0	0	0	0	0	0	0	0
	178	0	0	0	0	0	0	0	0	0
	179	0			0			0		0
			0	0		0	0		0	
	180	0	0	0	0	0	0	0	0	0
	181	0	0	0	0	0	0	0	0	0
	182	0	0	0	0	0	0	1	0	1
	183	0	0	0	0	0	0	0	0	0
	184	0	1	0	0	0	0	0	0	0
	185	0	0	0	0	0	0	0	0	0
	186	0	0	0	0	0	0	0	0	0
##	187	0	0	0	0	0	1	0	0	0
##	188	0	0	0	0	0	0	0	0	0
##	189	0	0	0	0	0	1	0	0	0
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##	191	0	0	0	0	0	0	0	0	0
##	192	0	0	0	0	0	0	0	0	0
##	193	0	0	0	0	0	0	0	0	0
##	194	0	0	0	0	0	0	0	0	0
##	195	0	0	0	0	0	0	0	0	0
##	196	0	0	0	0	0	0	0	0	0
##	197	1	0	0	0	1	0	0	0	1
	198	0	1	0	0	0	0	0	0	0
	199	0	0	0	0	0	0	0	0	0
	200	0	1	0	0	0	0	0	0	0
	201	0	0	0	0	0	0	0	0	0
	202	0	0	0	0	1	1	0	0	1
	203	0	0	0	0	0	0	0	0	0
	204	0	0	0	0	0	0	0	0	0
	205	0	0	0	0	0	0	1	0	0
	206	0	0	0	0	0	0	0	0	0
	207	0			0	0				
		0	1	0		0	0	0	0	0
	208		0	0	0		0		0	1
	209	0	1	0	0	0	0	0	0	0
	210	0	0	0	0	0	0	0	0	0
	211	0	1	0	1	0	0	0	0	0
##	212	0	0	0	0	0	0	0	0	1

"" 040	^	•	^	^	•	•	^	•	^
## 213	0	0	0	0	0	0	0	0	0
## 214	0	0	0	0	0	0	0	0	0
## 215	0	0	0	0	0	0	0	0	0
## 216	0	0	0	0	0	0	0	0	0
## 217	0	1	0	0	0	0	0	0	0
## 218	0	0	0	0	0	0	0	0	0
## 219	0	0	0	0	0	1	0	0	0
## 220	0	0	0	0	0	0	0	0	0
## 221	0	0	0	0	0	0	0	0	1
## 222	0	0	0	0	0	0	1	0	0
## 223	0	0	0	0	0	0	0	0	0
		0		0			0	0	0
## 224	0		0		0	0			
## 225	0	0	0	0	0	0	0	0	0
## 226	0	0	0	0	0	0	0	0	0
## 227	0	0	0	0	0	0	0	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
	0			0	0		0	0	
## 238		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
## 252 ## 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
## 260	0	1	0	0	0	0	0	0	0
## 261	0	0	0	0	0	0	0	0	0
## 262	0	0	0	0	0	0	0	0	0
## 263	0	0	0	0	0	0	0	0	0
## 264	0	0	0	0	0	0	0	0	0
## 265	0	0	0	0	0	0	0	0	1
## 266	0	0	0	0	0	0	1	0	0
## ZUU	U	U	U	U	U	U	1	U	U

##	267	0	1	0	0	0	^	0	^	Λ
	268	0	1	0		0	0		0	0
			0	0	0	0		0	0	0
	269	0	1	0	0	0	0	0	0	0
	270	0	0	0	0	0	0	0	0	0
	271	0	0	0	0	0	0	0	0	0
	272	0	1	0	0	1	0	0	0	1
	273	0	0	0	0	0	0	0	0	0
	274	0	0	0	0	0	0	0	0	0
	275	0	1	0	0	0	0	0	0	0
	276	0	0	0	0	0	0	0	0	0
	277	0	0	0	0	0	1	0	0	0
	278	0	0	0	0	0	0	0	0	0
	279	0	1	0	0	0	0	0	0	0
	280	0	0	0	0	0	0	0	0	0
##	281	0	0	0	0	0	0	0	0	0
##	282	0	0	0	0	0	0	1	0	0
##	283	0	1	0	0	0	0	0	0	0
##	284	0	0	0	0	0	0	0	0	0
##	285	0	0	0	0	0	0	0	0	0
##	286	0	0	0	0	0	0	0	0	0
##	287	0	0	0	0	0	0	0	0	0
##	288	0	0	0	0	0	0	0	0	0
##	289	0	0	0	0	0	0	0	0	0
##	290	1	0	0	0	0	0	0	0	0
##	291	0	0	0	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
	307	0	0	0	0	0	1	1	0	1
	308	0	0	0	0	0	0	0		0
	309	1	0	0	0	0	0	0		0
	310	0	0	0	0	0	0	0		0
	311	0	0	0	0	1	0	0		0
	312	0	0	0	0	0	0	0		0
	313	0	0	0	0	0	0	0		0
	314	0	0	1	0	0	0	0		0
	315	0	0	0	0	0	0	0		0
	316	0	0	0	0	0	0	0		0
	317	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
##	J2U	V	U	v	v	U	U	J	U	_

## 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
## 324	0	0	0	0	0	0	0	0	1
## 325	0	0	0	0	0	0	0	0	0
## 326	0	0	0	0	0	0	0	0	0
## 327	0	0	0	0	0	0	0	0	0
## 328	0	0	0	0	0	0	0	0	0
## 329	0	0	0	0	0	0	0	0	0
## 330	0	0	1	0	0	0	0	0	0
## 331	0	0	0	0	0	0	0	0	0
## 332	0	0	0	0	0	0	0	0	0
## 333	0	1	0	0	0	0	0	0	0
## 334	0	0	0	0	0	0	0	0	0
## 335	0	0	0	0	0	0	0	0	0
## 336	0	0	0	0	0	0	0	0	0
## 337	0	0	0	0	0	0	0	0	0
## 338	0	0	0	0	0	0	0	0	0
## 339	0	0	0	0	0	0	0	0	0
## 340	0	0	0	0	0	0	0	0	0
## 341	0	0	0	0	0	0	0	0	0
## 342	0	1	0	1	0	0	0	0	0
## 343	0	0	0	0	0	0	0	0	0
## 344	0	0	0	0	0	0	0	0	0
## 345	0	0	0	0	0	0	0	0	1
## 346	0	1	0	0	0	0	0	0	0
## 347	0	0	0	0	0	0	0	0	0
## 348	0	0	0	0	0	0	0	0	0
## 349	0	0	0	0	1	1	0	0	1
## 350	0	0	0	0	0	0	1	0	0
## 350 ## 351							0		
	0	1	0	0	0	0		0	0
## 352	0	0	0	0	0	0	0	0	0
## 353	0	0	0	0	0	0	0	0	0
## 354	0	0	0	0	0	0	0	0	0
## 355	0	0	0	0	0	0	0	0	0
## 356	0	1	0	0	0	0	0	0	0
## 357	0	0	0	0	0	1	1	0	0
## 358	0	0	0	0	0	0	0	0	0
## 359	0	0	0	0	0	0	0	0	0
## 360	0	0	0	0	0	0	0	0	1
## 361	0	0	0	0	0	0	0	0	0
## 362	0	0	0	0	0	0	0	0	0
## 363	1	1	0	0	0	0	0	0	0
## 364	0	0	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	0
## 367	0	0	0	0	0	0	0	0	0
## 368	0	0	0	0	0	0	0	0	0
## 369	0	1	0	0	0	0	0	1	1
## 370	0	0	0	0	0	1	0	0	1
## 371	1	0	0	0	0	1	0	0	1
## 372	0	0	0	0	0	0	0	0	0
## 373	0	0	0	0	0	0	0	0	0
## 374	0	0	0	0	0	1	0	0	0

	375	1	0	0	0	0	0	0	0		0
##	376	0	0	0	0	0	0	0	0	(0
##	377	0	0	0	0	0	0	0	1	(0
##	378	0	0	0	0	0	0	0	0	(0
##	379	0	0	0	0	0	0	0	0	(0
	380	0	1	0	0	1	0	0	0	(0
	381	0	0	0	0	1	0	0	0		0
	382	0	0	0	0	0	0	0	0		0
	383	0	0	0	0	0	0	0	0		0
	384	0	0	0	0	0	0	1	0		1
	385	0	0	0	0	0	0	0	0		1
##	386	0	0	0	0	0	0	0	0	(0
##	387	0	0	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
	392	0	0	0	0	0	0	0	0		1
	393	0	0	0	0	0	0	0	0		0
	394	1	0	0	0	0	1	0	0		1
	395	0	0	0	0	0	0	0	0		0
	396	0	0	0	0	0	0	0	0		0
	397	0	0	0	0	0	0	1	0	(0
	398	0	0	0	0	1	1	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
	-10 I	O	O	U	U	U	U	U	U	,	U
##	101					mu_PLXNA4					U
##	1										U
##		mu_ZFHX4	${\tt mu_LAMA2}$	mu_MLL3 m	u_MUC5B	mu_PLXNA4	${\tt mu_PTPRD}$	mu_CSMD2		SCAM	U
## ##	1	mu_ZFHX4 0	mu_LAMA2 1	mu_MLL3 m	u_MUC5B 1	mu_PLXNA4 1 0	mu_PTPRD 1 0	mu_CSMD2		SCAM O	U
## ## ## ##	1 2 3	mu_ZFHX4 0 1 0	mu_LAMA2 1 0 0	mu_MLL3 m 1 0 0	u_MUC5B 1 0 0	mu_PLXNA4 1 0 0	mu_PTPRD 1 0 0	mu_CSMD2 0 0		0 0 0 0	U
## ## ## ##	1 2 3 4	mu_ZFHX4 0 1 0 0	mu_LAMA2 1 0 0 0	mu_MLL3 m 1 0 0 0	u_MUC5B 1 0 0 0	mu_PLXNA4 1 0 0	mu_PTPRD 1 0 0 0	mu_CSMD2 0 0 0		O O O O	O
## ## ## ## ##	1 2 3 4 5	mu_ZFHX4 0 1 0 0 0	mu_LAMA2 1 0 0 0	mu_MLL3 m 1 0 0 0 0 0	u_MUC5B 1 0 0 0 0	mu_PLXNA4 1 0 0 0	mu_PTPRD 1 0 0 0 0 0 0	mu_CSMD2 0 0 0 0		O O O O	O
## ## ## ## ##	1 2 3 4 5	mu_ZFHX4 0 1 0 0 0	mu_LAMA2 1 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0	u_MUC5B 1 0 0 0 0	mu_PLXNA4 1 0 0 0 0	mu_PTPRD 1 0 0 0 0	mu_CSMD2 0 0 0 0 0		O O O O O O	O
## ## ## ## ## ##	1 2 3 4 5 6 7	mu_ZFHX4 0 1 0 0 0 0	mu_LAMA2 1 0 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0 0 0	u_MUC5B 1 0 0 0 0 0	mu_PLXNA4 1 0 0 0 0 0	mu_PTPRD 1 0 0 0 0 0 0 0 0	mu_CSMD2 0 0 0 0 0 0		O O O O O O O	O
## ## ## ## ## ##	1 2 3 4 5 6 7 8	mu_ZFHX4 0 1 0 0 0 0 0	mu_LAMA2 1 0 0 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0 0 0 0 0	u_MUC5B 1 0 0 0 0 0 0	mu_PLXNA4 1 0 0 0 0 0 0	mu_PTPRD 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CSMD2 0 0 0 0 0 0 0		O O O O O O O O O O O O O O O O O O O	O
## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9	mu_ZFHX4 0 1 0 0 0 0 0 0 0 0 0	mu_LAMA2 1 0 0 0 0 0 0 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0 0 0 0 0 0	u_MUC5B 1 0 0 0 0 0 0 0	mu_PLXNA4 1 0 0 0 0 0 0 0	mu_PTPRD 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CSMD2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		O O O O O O O O O O O O O O O O O O O	O
## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10	mu_ZFHX4 0 1 0 0 0 0 0 0 0 0 0 0	mu_LAMA2 1 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0 0 0 0 0 0 0 0	u_MUC5B 1 0 0 0 0 0 0 0 0	mu_PLXNA4 1 0 0 0 0 0 0 0 0 0 0 0	mu_PTPRD 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CSMD2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		O O O O O O O O O O O O O O O O O O O	O
## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10	mu_ZFHX4 0 1 0 0 0 0 0 0 0 0 0 0 0	mu_LAMA2 1 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	u_MUC5B 1 0 0 0 0 0 0 0 0	mu_PLXNA4 1 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PTPRD 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CSMD2 0 0 0 0 0 0 0 0 0 0 0 0 1	mu_DS	O O O O O O O O O O O O O O O O O O O	O
## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12	mu_ZFHX4 0 1 0 0 0 0 0 0 0 0 0 0 0 0	mu_LAMA2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	u_MUC5B 1 0 0 0 0 0 0 0 0 0 0 0 0	mu_PLXNA4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PTPRD 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CSMD2 0 0 0 0 0 0 0 0 0 0 0 1 0	mu_DS	O O O O O O O O O O O O O O O O O O O	O
## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12 13	mu_ZFHX4 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_LAMA2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	u_MUC5B 1 0 0 0 0 0 0 0 0 0 0 0 0	mu_PLXNA4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PTPRD 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CSMD2 0 0 0 0 0 0 0 0 0 0 1 0 0 0	mu_DS	O O O O O O O O O O O O O O O O O O O	O
## ## ## ## ## ## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12 13	mu_ZFHX4 0 1 0 0 0 0 0 0 0 0 0 0 0 0	mu_LAMA2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	u_MUC5B 1 0 0 0 0 0 0 0 0 0 0 0 0	mu_PLXNA4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PTPRD 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CSMD2 0 0 0 0 0 0 0 0 0 0 0 1 0	mu_DS	O O O O O O O O O O O O O O O O O O O	O
## ## ## ## ## ## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	mu_ZFHX4 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_LAMA2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	u_MUC5B 1 0 0 0 0 0 0 0 0 0 0 0 0	mu_PLXNA4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PTPRD 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CSMD2 0 0 0 0 0 0 0 0 0 0 1 0 0 0	mu_DS	O O O O O O O O O O O O O O O O O O O	O
## ## ## ## ## ## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12 13	mu_ZFHX4 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_LAMA2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	u_MUC5B 1 0 0 0 0 0 0 0 0 0 0	mu_PLXNA4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PTPRD 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CSMD2 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0	mu_DS	O O O O O O O O O O O O O O O O O O O	O
# # # # # # # # # # # # # # # # # # #	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	mu_ZFHX4 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_LAMA2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	u_MUC5B 1 0 0 0 0 0 0 0 0 0 0 0 0	mu_PLXNA4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PTPRD 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CSMD2 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0	mu_DS	O O O O O O O O O O O O O O O O O O O	O
# # # # # # # # # # # # # # # # # # #	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	mu_ZFHX4 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_LAMA2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1	u_MUC5B 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PLXNA4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PTPRD 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CSMD2 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0	mu_DS	O O O O O O O O O O O O O O O O O O O	O
######################################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	mu_ZFHX4 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_LAMA2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0	u_MUC5B 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PLXNA4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PTPRD 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CSMD2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DS	O O O O O O O O O O O O O O O O O O O	O
# # # # # # # # # # # # # # # # # # #	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	mu_ZFHX4 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_LAMA2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0	u_MUC5B 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PLXNA4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PTPRD 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CSMD2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DS	O O O O O O O O O O O O O O O O O O O	O
########################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	mu_ZFHX4 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_LAMA2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0	u_MUC5B 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PLXNA4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PTPRD 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CSMD2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DS	O O O O O O O O O O O O O O O O O O O	O
########################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	mu_ZFHX4 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_LAMA2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0	u_MUC5B 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PLXNA4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PTPRD 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CSMD2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DS	O O O O O O O O O O O O O O O O O O O	O
#########################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	mu_ZFHX4 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_LAMA2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	u_MUC5B 1 0 0 0 0 0 0 0 0 0 0 0 0	mu_PLXNA4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PTPRD 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CSMD2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DS	O O O O O O O O O O O O O O O O O O O	O
##########################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	mu_ZFHX4 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_LAMA2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	u_MUC5B 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PLXNA4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PTPRD 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CSMD2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DS	O O O O O O O O O O O O O O O O O O O	O
############################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	mu_ZFHX4 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_LAMA2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	u_MUC5B 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PLXNA4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PTPRD 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CSMD2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DS	CAM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	O
###############################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	mu_ZFHX4 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_LAMA2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL3 m 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	u_MUC5B 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PLXNA4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PTPRD 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CSMD2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DS	O O O O O O O O O O O O O O O O O O O	O

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	388			1	0	0	0		0
	389	0	0	0			0	0	0
			0	0	0	0		0	
	390	0				0	0	0	0
	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
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	395	0	0	0	0	0	0	0	0
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	398	0	0	0	1	1	1	0	0
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##	401	0	0	0	0	0	0	0	0
##		mu_FAT2 mu		mu_MED12	mu_RNA5.8SP6	S mu_AHCT			L14A1
##		0	0	0	(0	0	0
##	2	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	Ö	0	0
## 8	0	0	0	0	0	0	0
## 9	0	0	0	0	Ö	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
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## 20	0	0	0	0	0	0	0
## 21	0	0	1	0	0	0	0
## 22	0	0	0	0	0	0	0
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## 24	0	0	0	0	1	0	0
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## 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
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## 44	0	0	0	0	0	0	0
## 45 ## 46	0	0	0	0	0	0	0
## 46 ## 47	1 0	0	1 0	0	0 0	0 0	0
## 41 ## 48	0	0	0	1 0	0	0	0
## 49	0	0	0	0	0	0	0
## 49 ## 50	0	1	0	0	0	0	0
## 50 ## 51	0	0	0	0	0	0	0
## 51 ## 52	0	1	0	0	0	0	0
## 52 ## 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

		•		^		•	
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		0	0	0	0		
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##		0	0	0	0	0	0 0
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	106	0	1	0	0	0	0 0
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							•

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	136 137	0	1	0	0	0	0 0
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	140	0	0	0	0	0	0 0
	140	0	0	0	0	0	1 0 0
	141	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
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	147	0	0	0	0	0	0 0
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	150	0	0	0	0	0	0 0
	151	0	0	0	0	0	0 1
	152	0	0	0	0	0	1 0
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	159	0	1	0	0	0	0 0
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	162	0	0	0	0	0	0 1
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##	164	0	0	0	0	0	0 0

	4.05	^	•	^	•	•	
	165	0	0	0	0	0	1 0
	166	0	0	0	0	0	0 0
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	197	0	0	1	0	0	0 0
	198	0	0	0	0	0	0 0
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##	208	0	0	0	0	0	0 0
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	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

шш	010	^	^	^	^	1	0
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##		0	0	0	0	0	0 0
##		0	0	0	1	0	0 0
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##		0	0	0	0	0	0 0
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##		0	0	0	0	0	0 0
##		0	0	0	1	0	0 0
##		0	0	0	0	0	0 0
##		0	0	0	0	0	0 0
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##		0	0	0	0	0	0 0
##		0	0	0	1	0	0 0
##		0	0	0	0	0	0 0
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##		0	0	0	0		0 0
##					0	1	
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##		0	0	0	0	0	0 0
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	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
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	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
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	293	0	0	0	0	0	0 0
	294	0	0	0	0	0	0 0
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	296 297	0	0	0	0	0	0 0
	298	1	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
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	316	0	0	0	0	0	0 0
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	323	0	0	0	0	0	0 0
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## 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
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## 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
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## 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 ## 373	0 0	0 0	0	0	0 0	0 0	0
## 373 ## 374	0	0	0	1 0	0	0	0
## 374 ## 375	0	0	1 0	0	0	0	0
## 375 ## 376	0	0	0	0	0	0	0
## 376 ## 377	0	0	0	0	0	0	0
## 377 ## 378	0	1	0	0	0	0	0
## 379	0	0	0	0	0	0	0
## 380	0	0	0	0	0	0	0
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	381	0	0	0		0	0	0	0
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##	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	${\tt mu_GOLGA6L2}$	mu_HYDIN	mu_MUC12
##	1	0	0	0	0	0	0	0	0
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##	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
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	12	0	0	0	0	0	0	0	0
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	14	0	0	0	0	0	0	0	0
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##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##			0						0
		0		0	0	0	0	0	
##		0	0	0	0	0	0	0	1
##		0	0	0	0	0	0	1	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
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##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	1	0	0	0
##		0	0	0	0	0	0	0	0
##	32	0	0	0	0	0	0	0	0

шш	22	^	^	^	^	0	^	0	`
##		0	0	0	0	0	0	0 (
##		0	0	0	0	0	0	0 (
##		0	0	0	0	0	0	1 (
##		0	0	0	0	0	0	0 (
##		0	0	0	0	0	0	0 (
##		0	1	0	0	0	0	0 (
##	39	0	0	0	0	0	0	0 ()
##	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	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	0	0	0	0	0 1	1
##	47	0	0	0	0	0	1	0 ()
##	48	1	0	0	0	0	0		1
##	49	0	0	0	0	0	0	0 ()
##		0	0	0	0	0	0	1 (
##		0	0	0	0	0	0	0 (
##		0	0	0	0	0	0	0 (
##		0	0	0	0	0	0	0 (
##		0	0	0	0	0	0	0 (
##		0	0	0	0	0	0	0 (
##		0	0	0	0	0	0	0 (
##		0	1	0	0	0	0	0 (
##		0	0	0	0	0	0	0 (
##		0	0	0	0	0	0	0 (
##				0			0		
##		0	0		0	0		0 (
		0	0	0	0	0	0	0 (
##		0	0	0	0	0	0	0 (
##		0	0	0	0	0	0	0 (
##		0	0	0	0	0	0	0 (
##		0	0	0	0	0	0	0 (
##		0	0	0	0	0	1	0 (
##		0	0	0	0	0	0	0 (
##	68	0	0	0	0	0	0	0 (
##		0	0	0	0	0	0	0 (
##		0	0	0	0	0	0	1 (
##		0	0	0	0	0	0	0 (
##		0	0	0	0	0	0	0 (
##		0	0	0	0	0	0	0 (
##		0	0	0	0	0	0	0 (
##		0	0	0	0	0	0	1 (
##		0	0	0	0	0	0	0 (
##		0	1	0	0	0	0	0 (
##		0	0	1	0	0	0	0 ()
##		0	0	0	0	0	0	0 ()
##	80	0	0	0	0	0	0	0 1	1
##	81	0	0	0	0	0	1	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 ()
##		0	0	0	0	0	0	0 ()

##	87	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	1	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	1	0	0	0	0	1	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
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	102	1	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	0	0	0	0	1	0	0	0
	109	0	0	0	0	0	0	0	0
##	110	0	0	0	0	0	0	0	0
##	111	0	1	0	1	0	0	0	0
##	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	0	0	0	0	0	0	0	0
##	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	0	0	0	0	0	0
	123	0	0	0	0	0	0	0	0
	124	0	0	0	0	1	0	0	0
	125	0	0	0	0	0	0	0	0
	126	0	1	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	0	0	0	0	0	0	0
	130	0	0	0	1	0	0	0	0
	131	1	1	1	0	0	0	0	0
	132	0	0	0	0	0	0	0	0
	133	0	0	0	0	0	0	0	0
	134	0	0	0	0	0	0	0	0
	135	0	0	0	0	0	0	0	0
	136	0	0	0	0	0	0	0	0
	137	0	0	0	0	0	0	0	0
	138 139	1	0	0	0	0	0	0	0
	140	0	0	0	1	1	0	0	0
##	1 1 0	U	V	J	1	1	U	U	U

## 142	##	141	0	0	0	0	0	0	0	0
## 143										
## 1444										0
## 145								0		0
## 146	##	145	0		0			0		0
## 147			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
## 152			0	1	0	0	0	0		0
## 153	##	151	0	0	0	0	0	0	0	0
## 154	##	152	0	0	0	1	0	0	0	0
## 155	##	153	0	0	0	0	0	0	0	0
## 156	##	154	0	0	0	0	0	0	0	0
## 157	##	155	0	0	0	0	0	0	0	0
## 158	##	156	0	0	0	0	0	0	0	0
## 159	##	157	0	0	0	0	0	0	0	1
## 160	##	158	0	0	0	0	0	0	0	0
## 161	##	159	0	0	0	0	0	0	0	0
## 162	##	160	0	0	0	0	0	0	0	0
## 163	##	161	0	0	0	0	0	0	0	0
## 164	##	162	0	0	0	0	0	0	1	0
## 165	##	163	0	0	0	0	0	0	0	0
## 166			0				0	0		0
## 167										
## 168										
## 169										
## 170										
## 171 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 172										
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## 178										
## 179										
## 180										
## 181 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 182										
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## 184 0 0 0 0 0 0 0 0 0 0 0 0 1 ## 185 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 185 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 186 0 0 0 0 0 0 0 0 ## 187 0 0 0 0 0 0 1 1 ## 188 0 0 0 0 0 0 0 0 ## 189 0 0 0 0 0 0 0 0 0 ## 190 0 0 0 0 0 0 0 0 0 0 ## 191 0 0 0 0 0 0 0 0 0 0 ## 192 0 0 0 0 0 0 0 0 0 ## 193 0 0 0 0 0 0 0 0 0			0		0				0	
## 188 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	186	0	0	0	0	0	0	0	0
## 189	##	187	0	0	0	0	0	0	1	1
## 190 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	188	0	0	0	0	0	0	0	0
## 191 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	189	0	0	0	0	0	0	0	0
## 192 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	190	0	0	0	0	0	0	0	0
## 193 0 0 0 0 0 0 0 0			0	0	0	0	0	0	0	0
								0		
## 194 0 0 0 0 0 0 0										
	##	194	0	0	0	0	0	0	0	0

##	195	1	0	0	0	0	^	0	1
	196	1 0	0	0	0	0	0	0	0
	197	0	0	0	0	0	0	1	
	198								0
		0	0	0	0	0	0	0	0
	199	0	0	0	0	1	0	0	0
	200	0	0	0	0	0	0	0	0
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	202	0	0	0	0	0	0	0	0
	203	0	0	0	0	0	0	0	1
	204	0	0	0	0	0	0	0	0
	205	0	0	0	0	0	0	0	0
	206	0	0	0	0	0	0	0	0
	207	0	0	0	0	0	0	0	1
	208	0	0	0	0	0	0	0	0
	209	0	0	0	0	0	0	0	0
	210	0	0	0	0	0	0	0	0
##	211	0	0	0	0	0	0	0	0
	212	0	0	0	0	0	0	0	0
##	213	0	0	0	1	0	0	0	0
##	214	0	0	0	0	0	0	0	0
##	215	0	0	0	0	0	0	0	0
##	216	0	0	0	0	0	1	0	0
##	217	0	0	0	0	0	0	0	0
##	218	0	0	0	0	0	0	0	0
##	219	0	1	0	0	0	0	0	0
##	220	0	0	0	0	0	0	0	0
##	221	0	0	0	0	0	0	0	0
##	222	0	0	0	0	0	0	0	0
##	223	0	0	0	0	0	0	0	0
##	224	0	0	0	0	0	0	0	0
##	225	0	0	0	0	0	0	0	0
##	226	0	0	0	0	0	0	0	0
##	227	0	0	0	0	1	0	0	0
##	228	0	0	0	0	0	0	0	0
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##	231	0	0	0	0	0	0	0	0
	232	0	0	0	0	1	0	0	0
	233	0	0	0	0	0	0	1	0
	234	0	0	0	0	0	0	0	0
	235	0	0	0	0	0	0	0	0
	236	0	0	1	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	0	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	1	0	0	0	0	0
	246	0	0	0	0	0	0	0	0
	247	0	0	0	1	0	0	0	0
	248	0	0	0	0	0	0	0	0
11	_ 10	•	-	-	-	•	•	-	•

## ##	249 250	0	0	0	0	0	0	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	1	0	0	0	0	0	0
	256	0	0	0	0	0	0	0	0
	257	0	1	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	1	0	0	0	0	0	0
##	263	0	0	0	0	0	0	0	1
##	264	0	0	0	1	0	0	0	0
##	265	0	0	0	0	0	0	0	0
##	266	0	0	0	0	0	0	0	0
##	267	0	0	0	0	0	0	0	0
##	268	0	0	0	0	0	0	0	1
##	269	0	0	0	0	0	0	0	0
##	270	0	0	0	0	0	1	0	1
##	271	0	0	0	0	0	0	0	0
##	272	0	0	0	0	0	0	0	0
##	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	0	0	0	0
	278	0	0	0	0	0	0	0	0
	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
	286 287	0	0	0	0	0	0	0	0
	288	0	0	0	0	0	0	0	0
	289	0	0	0	0	1	0	0	0
	290	0	0	0	0	0	0	0	0
	291	0	0	0	1	0	0	0	0
	292	0	1	0	0	0	0	0	0
	293	0	0	0	0	0	0	0	0
	294	0	0	0	0	0	0	0	1
	295	0	0	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	1	0	0
##	300	0	0	0	0	0	0	0	0
		^	0	0	0	0	0	0	0
##	301	0	0	O	0	0	0	O	U

##	303	0	0	0	1	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		0
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##	309	0	0	0	0	0	0	0	0
##	310	0	0	0	0	0	0	0	0
##	311	0	0	1	0	0	0	0	0
##	312	0	0	0	0	0	0	0	0
##	313	0	0	0	0	0	0	0	0
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	315	0	0	0	0	0	0	0	0
	316	0	0	0	0	0	1	0	0
	317	0	0	0	0	0	0	0	0
	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
	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	1	0	0		0
	326	0	0	0	0	0	0		0
	327	0	0	0	1	0	0	0	1
	328	0	0	0	0	0	0		0
	329	0	0	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
	335 336	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
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	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	1	0	0	0	1
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	351	0	0	0	0	0	0		0
	352	0	0	0	0	0	0		0
	353	0	0	0	0	0	1		0
	354	0	0	0	0	1	0	0	0
##	355	0	0	0	0	0	0	0	0
##	356	0	0	0	0	0	0	0	0

		•	•	•			•	•	
	357	0	0	0	1	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	1	0	0
##	361	0	0	1	0	0	0	0	0
##	362	0	0	0	0	0	0	1	0
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	368	0	0	0	0	0	0	0	0
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	371	0	1	0	1	0	1	0	0
	372	0	0	0	0	0	0	0	0
	373	0	0	0	0	0	0	0	0
	374								
	375	0	0	0 0	0 0	0	0	0	0
		0	0			0	0	0	0
	376	0	0	0	0	0	1	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	1
	380	0	0	0	0	0	0	0	0
	381	0	1	1	0	0	0	0	0
	382	0	1	0	0	0	0	0	0
	383	0	0	0	0	0	0	0	1
	384	0	0	0	0	0	0	0	0
	385	0	0	0	0	0	0	0	1
	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	1
##	394	0	0	0	1	1	0	0	1
##	395	1	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	1	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_PLCE1 mu_R	YR2 mu_U	SH2A mu_	AHNAK m	u_CDH23 mu	_CEP350 mu_DN	VAH1 mu_	DNAH7
##	1	0	0	0	0	0	0	0	0
##	2	1	1	1	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	1	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		1	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	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	1	0
## 18	0	0	0	0	0	0	0	0
## 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
## 23	0	0	0	0	0	0	0	0
## 24	0	0	0	0	0	0	0	0
## 25	0	0	0	0	0	1	0	0
## 26	0	0	0	0	0	0	0	0
## 27	0	0	0	0	0	0	0	0
## 28	0	0	1	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	1	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	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	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	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	1	1	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	0	0	0	0	0	0	0	0
## 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	0	0	0	0	0	0	0	0
## 57	0	0	1	1	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
## 61 ## 62			0	0	0	0	0	0
## 02	0	0	U	U	U	U	U	U

## 66 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	63	0	0	0	0	0	0	0	0
## 65										
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## 80										
## 81 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 82 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 83										
## 84 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 85 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 86										
## 87 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 88										
## 89 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 90 0 0 0 0 0 0 0 0 0 0 0 0										
## 91 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 92 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 93 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 94 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 95	##	94	0		0	0		0		
## 96	##	95	0		0	0		0		
## 97	##	96	0		0	1		0		
## 98	##	97	0		0	0	0	0	0	0
## 100	##	98	0	0	0	0		0	0	0
## 101 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	99	0	0	0	0	1	0	0	0
## 102	##	100	0	0	0	0	0	0	0	0
## 103 0 <th>##</th> <th>101</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th>	##	101	0	0	0	0	0	0	0	0
## 104 0 <th>##</th> <th>102</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th>	##	102	0	0	0	0	0	0	0	0
## 105 0 0 1 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 0 0 0 0 0 0 0 0 ## 109 0	##	103	0	0	0	0	0	0	0	0
## 106 0 <th>##</th> <th>104</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th> <th>0</th>	##	104	0	0	0	0	0	0	0	0
## 107	##	105	0	0	1	0	0	0	0	0
## 108	##	106	0	0	0	0	0	0	0	0
## 109	##	107	0	0	0	0	0	0	0	0
## 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	108	1	0	0	0	0	0	0	0
## 111 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	109	0	0	0	0	0	0	0	0
## 112 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	110	0	0	0	0	0	0	0	0
## 113 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0		0	0	0	0	0	0
## 114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0		0	0	0	0	0	0
## 115 0 0 0 0 0 0 0 0									0	
			0						0	
## 116										
	##	116	0	0	0	0	0	0	0	0

				•		•			
	117	1	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	0	0	0	0	0 0)
##	123	0	0	0	0	0	0	0 0)
##	124	0	1	1	0	0	0	0 0)
##	125	1	0	0	0	0	0	0 0)
##	126	0	0	0	0	0	0	0 0)
##	127	0	1	0	0	0	0	0 0)
	128	0	0	0	0	0	0	0 0	
	129	0	0	1	0	0	0	0 0	
	130	1	0	0	0	0	0	0 0	
	131	0	0	1	0	1	1	0 1	
	132	0	0	0	0	0	0	0 0	
	133	0	0	0	0	0	0	0 0	
	134	0	0	0	0	0	0	0 0	
	135	0	0			0			
				0	0		0		
	136	0	0	0	0	0	0	0 0	
	137	0	0	0	0	0	0	0 0	
	138	0	0	1	0	0	0	0 0	
	139	0	1	0	0	0	0	0 0	
	140	1	0	0	0	1	0	0 1	
	141	0	0	0	0	0	0	0 0	
	142	0	0	0	0	0	0	1 0	
	143	0	0	0	0	0	0	0 0)
##	144	0	0	0	0	0	0	0 0)
##	145	0	0	0	0	0	0	0 0)
##	146	0	0	0	0	0	0	0 0)
##	147	0	0	0	0	0	0	0 0)
##	148	0	0	0	0	0	0	0 0)
##	149	0	0	0	0	0	0	0 0)
##	150	0	0	0	0	0	0	0 1	
##	151	0	0	0	0	0	0	0 0)
##	152	0	0	1	0	0	0	0 0)
##	153	0	1	0	0	0	0	0 0)
##	154	0	0	0	0	0	0	0 0)
	155	0	0	0	0	0	0	0 0	
	156	0	0	0	0	1	0	0 0	
	157	0	0	0	0	0	0	0 0	
	158	0	0	0	0	0	0	0 0	
	159	0	0	0	0	0	0	0 0	
	160	0	0	0	0	0	0	0 0	
	161	0	0	0	0	0	0	0 0	
	162	0	1	0	0	0	0	0 0	
	163	0	0	0	0	0	0	0 0	
	164	0	0	0	1	0	1	0 0	
	165	0	0	0	0	0	0	0 0	
	166	0	0	0	0	0	0	0 0	
	167	1	0	0	0	0	0	0 0	
	168	0	0	0	0	0	0	0 0	
	169	0	0	1	1	0	0	0 0	
##	170	0	0	0	0	0	0	0 0	,

##	171	^	^	^	0	0	0	0	^
	172	0	0	0	0	0	0		0
	173			0	0	0	0		0
	174	0	0	0	0	0	0		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	1	1	1	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	1	0	0	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	0
##	191	0	0	0	0	0	0	0	0
##	192	0	0	0	0	0	0	0	0
##	193	0	0	0	0	0	0	0	0
##	194	0	0	0	0	0	0	0	0
##	195	0	0	0	0	0	0	0	0
##	196	0	0	0	0	0	0	0	0
##	197	0	0	0	0	0	0	0	0
##	198	0	0	0	0	0	0	0	0
##	199	0	0	0	0	0	0	0	0
##	200	0	0	0	0	0	0	0	0
##	201	0	0	0	0	0	0	0	0
##	202	0	0	1	0	0	0	0	0
##	203	0	0	0	0	0	0	0	0
##	204	0	0	0	0	0	0	0	0
##	205	0	0	0	0	0	0	0	0
##	206	0	0	0	0	0	0	0	0
##	207	0	0	0	0	0	0	0	0
##	208	0	0	0	0	0	0	0	1
##	209	0	1	0	0	0	0	0	0
##	210	0	0	0	0	0	0	0	0
##	211	0	0	0	0	0	0	0	0
##	212	0	0	0	0	0	0	0	0
##	213	0	0	0	0	0	0	0	0
	214	0	0	0	0	0	0		0
##	215	0	0	0	0	0	0	0	0
##	216	0	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	0	0		1
	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 0)
	226	0	0	0	0	0	0	0 0	
	227	0	0	0	1	0	0	0 0	
	228	0	0	0	0	0	0	0 0	
	229	0	0	0	0	0	0	0 0	
	230	1	0	0	0	0	0	0 0	
	231	0	0	0	0	0	0	0 0	
	232	0	0	0	0	0	0	0 0	
	233	0	0	0	0	0	0	0 1	
	234	0	0	0	0	0	0	0 0	
	235	0	0	0	0	0	0	1 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	0	0	0 0	
	242	0	0	0	0	0	0	0 0	
	243	0	0	0	0	1	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	1 0)
##	259	0	0	0	0	0	0	0 0)
##	260	0	0	0	0	0	0	0 0)
##	261	0	1	0	0	0	0	0 0)
	262	0	0	0	0	0	0	0 0)
	263	0	0	0	0	0	0	0 0)
	264	0	1	0	0	0	1	0 0	
	265	0	0	0	0	0	0	0 0	
	266	0	0	0	0	0	0	0 0	
	267	0	0	0	0	0	0	0 0	
	268	0	0	0	0	0	0	0 0	
	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	
	272	0	0	0	0	0	0	0 0	
	273	0	0	0	0	0	0	0 0	
	274	0	0	0	0	0	0	1 0	
	275	0	0	0	0	0	0	0 0	
	276	0	0	0	0	0	0	0 0	
	277	0	0	0	0	0	0	0 0	
##	278	0	0	0	0	0	0	0 0)

##	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 1	
	294	0	0	1	0	0	0	0 0)
##	295	0	0	0	0	0	0	0 0)
##	296	0	0	0	0	0	0	0 0)
##	297	0	0	1	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	0	0	0	0	0	0	0 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	0	0	0	0	0	0 0)
	308	0	0	0	0	0	0	0 0)
	309	0	0	0	0	0	0	0 0	1
	310	0	0	0	0	0	0	0 0	,
	311	0	0	0	0	0	0	0 1	
	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	
	317	0	0	0	0	0	0	0 0	
	318	0	0	0	0	0	0	0 0	
	319	0	0	0	0	0	0	0 1	
	320	0	0	0	0	0	0	0 0	
	321 322	0	0	0	0	0	0	0 0	
	323	0	0	0	0	0	0	0 0	
	324	0	0	0	0	0	0	0 0	
	325	0	0	0	0	0	0	0 0	
	326	0	0	0	0	0	0	0 0	
	327	0	0	0	0	0	0	0 1	
	328	0	0	0	0	0	0	0 0	
	329	0	0	0	0	0	0	0 0	
	330	0	1	0	0	0	0	0 0	
	331	0	0	0	0	0	1	1 0	
	332	0	0	0	0	0	0	0 0	
								·	

	333	0	1	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
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	340	0	0	0	0	0	0	0	0
	341	0	0	0	0	0	0	0	0
	342	0	0	0	0	0	0	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	0	0	0
	346	0	0	0	0	0	0	0	0
	347	0	0	1	0	0	0	0	0
	348	0	0	0	1	0	0	0	0
##	349	0	0	0	0	0	0	1	0
##	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	1	0	0	0	0	0	0	0
##	354	0	0	1	0	0	1	0	0
	355	0	0	0	0	0	0	0	0
	356	0	0	0	0	0	0	0	0
	357	0	1	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	0
	361	0	0	0	0	0	0	0	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	1	0
##	367	0	0	0	0	0	0	0	0
##	368	0	0	0	0	0	0	0	1
##	369	0	1	1	0	0	0	0	1
##	370	0	0	0	0	0	0	0	0
	371	0	1	1	0	0	1	0	1
	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
	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	0	0
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	382	0	0	0	0	0	0	0	1
	383	0	0	0	0	0	0	0	0
##	384	0	0	0	0	0	0	0	0
##	385	0	0	0	0	0	1	0	0
##	386	0	0	0	0	0	0	0	0

шш	207	0	0	4	0	0	0	0	0
	387 388	0	0	1 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	1	0	1	0	1	0	0
	395	0	0	0	0	0	0	0	0
	396	0	0	0	Ō	0	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_HERC2	mu_IGSF10	mu_KAT6B	mu_PIK3CA	mu_QSER1	mu_RB1	mu_TAF1L	mu_TCHH
##	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	1	0	0	0	0
##	6	0	0	0	1	0	0	0	0
##	7	0	0	0	0	0	0	0	0
	8	0	0	0	1	0	0	0	0
	9	0	0	0	0	0	0	0	0
	10	0	0	0	1	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	1	0	0	1	0	0	0	0
	15	0	0	0	0	0	0	0	0
	16	0	0	0	1	0	0	0	0
	17	0	0	0	0	0	0	0	1 0
	18 19	0	0	0	0	0	0	0	0
##	20	0	0	0	1	0	0	0	0
	21	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	1
##		0	0	0	1	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	1	0	0	0	0
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##		0	0	0	1	0	0	0	0
##		0	0	0	1	1	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##	38	0	0	0	0	0	0	0	0

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## 39	0	0	0	0	0	0	0	1
## 40	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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## 45	0	0	0	1	0	0	0	0
## 46	1	0	1	0	0	0	0	0
## 47	0	0			0			
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## 48	0	0	0	1	0	0	0	0
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## 54	0	0	0	1	0	0	0	0
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## 77 ## 78	0	0	0	0		0	0	
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## 79	0	0	0	1	0	0	0	0
## 80	0	0	0	0	0	0	0	0
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## ##	127 128	0	0	0	0	0	0	0	0
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	197 198	0	0	0	0	0	0	0	0
	198		0	0	0	0	0	0	0
	200	0		0		0	0	0	0
##	200	0	0	U	0	U	U	U	U

	004	^	^	^	•	^	^	0	^
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##	237	0	0	1	1	0	0	0	0
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	361	0	0	0	0	0	0		0
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##	363	0		0	0	0	0	0	0	0
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	388	0		0	0	0	0	0	0	0
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	401	0		0	0	0	0	0	0	0
##									I mu_MUC20	
##		0	0	0	0	0	0	(
##		0	0	0	0	0	0	(
##		0	0	0	1	0	0	(
##		0	0	0	0	0	0	(
##		0	0	0	0	0	0	(
## ##		1	1	0	0	0	0	(
##		0	0 1	0	0	0	0	(
##		0	1	0	0	0	1	(
##		0	0	0	0	0	0	(
##		0	0	0	0	0	0	(
	12	0	0	0	0	0	0	(
##		0	1	0	0	0	0	(
	14	0	0	0	0	0	0	(
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##	15	0	0	0	0	0	0	0	0 0
##	16	0	0	0	0	0	0	0	0 0
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##		0	0	0	0	0	0	0	0 0
##					0		0		
		0	1	0		0		0	
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##		0	0	0	0	0	0	0	0 0
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##	35	0	1	0	1	0	1	0	0 0
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##	37	0	0	0	0	0	0	0	0 0
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##		0	1	0	0	0	0	0	0 0
##					0				
		0	0	0		0	1	0	0 0
##		0	1	0	0	0	0	0	0 0
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##	ρQ	0	0	0	0	0	0	0	0 0

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##		0	0	0	0	0	0	1	0 0
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##	95	0	0	0	0	0	0	0	0 0
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	119	0	0	0	0	0	0	0	0 0
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	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
	123	0	0	0 1	0	0	0	0	0 0
	125	0	0	0	1	0	0	0	0 0
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	127	0	0	0	0	0	0	0	0 0
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	129	0		0	0	1	0		
	130	0	0	0	0	0	0	0	0 0
	131				1	1	1		
	132	0	0	0	0	0	0	1 0	0 0
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	149	0	0	0	0	0	0	0	0 0
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	153 154	0	1	0	0	0	0	0	0 0
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	157	0	0	0	0	0	0	0	0 0
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	173	0	0	0	0	0	0	0	0 0
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##	110	J	U	J	J	V	V	U	0

##	177	^	0	^	^	0	0	0	0	`
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##	180	0	0	0	0	0	0	0	0 0)
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##	182	0	1	0	0	0	1	1	0 0)
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	185	0	0	0	0	0	0	0	0 0	
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	187	0								
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##	191	0	0	0	0	0	0	0	0 0)
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##	193	0	1	0	0	0	0	0	0 0)
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	195	0	0	0	0	0	0	0	0 0)
	196	0	1	0	0	0	0	0	0 0	
	197	0	1	0	1	0	1	0	0 0	
	198	0	0	0	0	0	0	0	0 0	
	199	0		0	0	0	0	0	0 0	
			1							
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	201	0	1	0	0	0	0	0	0 0	
	202	0	1	0	0	0	0	0	0 0	
	203	0	1	0	0	0	0	0	0 0)
	204	0	0	0	0	0	0	0	0 0)
	205	0	0	0	0	0	0	0	0 0)
##	206	0	0	0	0	0	0	0	0 0)
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##	208	0	1	0	0	0	0	0	0 0)
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	218	0	1	0	0	0	0	0	0 0	
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	220	0	0	0	0	0	0	0	0 0)
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##	230	J	U	U	U	U	U	U		,

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	239	0	0	0	1	0	0	0	0 0
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	268	0	0	0	0	0	0	0	0 0
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	270	0	0	0	0	0	1	0	0 0
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	273	0	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
	277 278	0	1	0	0	0	0	0	0 1 0
	278	0	0	0	0	0	0	0	0 0
	280	0	1	0	0	0	0	0	0 0
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	283	0	0	0	0	0	0	0	0 0
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ıπ	201	•	•	~	_	~	•	v	0

##	285	0	0	0	0	0	0	0	0	0
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##	293	0	0	0	0	0	0	0	1	0
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##	392	0	0	0	0	0	0	0	0 0	

##	393		0	0	0		0	0		0		0	0	0
	394		1	0	0		0	1		0		0	0	0
	395		0	1	0		0	0		0		0	0	0
##	396		0	0	0		0	0		0		0	0	0
##	397		0	0	1		0	0		0		0	0	0
	398		0	1	0		0	1		0		0	0	0
	399		0	0	0		0	0		0		0	0	0
	400		0	1	0		0	0		0		0	0	0
	401	7 A NI	0	0	0 DNAH10		0	0 VIEC	CD	0 NCOD:	1	0 ADTD1A	0	0
## ##	1	mu_ZAN		9 mu _. 0	_DNAH12	mu_L	0 O	mu_KIF2	0	mu_NCOR:	1 mu_)	ARIDIA 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		C	0		0
##	6	0		1	0		0		0	(C	0		0
##	7	0		0	0		0		0	(C	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		0
	12	0		0	0		0		0)	0		0
	13 14	0		0	0		0		0)	0		0
	15	0		0	0		0		0))	0		0 0
	16	0		0	0		0		0)	0		0
	17	0		0	0		0		0)	0		1
	18	0		0	0		0		0)	0		0
##	19	0		0	0		0		0	(С	0		0
##	20	0		0	0		0		0	(C	0		0
	21	0		0	0		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		0)	0		0
	25 26	0		0	0		0		0)	0		0
## ##	26 27	0		0	0		0		0))	0		0
##		0		0	0		0		0)	0		0
##		0		0	0		0		0)	0		0
##		0		0	0		0		0		C	0		0
##	31	0		0	0		0		0	(С	0		0
##	32	0		0	0		0		0	-	1	0		0
##		0		0	0		0		0	()	0		0
##		0		0	0		0		0)	0		0
##		0		0	0		0		0)	0		0
##		0		0	0		0		0		0	0		0
##		0		0	0		0		0)	0		0
## ##		0		0	0		0		0))	0		0
##		0		0	0		0		0))	0		0 0
##		0		0	0		1		0)	0		0
##		0		0	0		0		0)	0		0
##		0		0	0		0		0)	0		0
##		0		0	0		0		0		0	0		0

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##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	1	0 0
##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
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##	56	0	0	0	0	0	0	0 0
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##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
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##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 1
##		0	0	0	1	0	0	0 0
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	72	0	0	0	0	0	0	0 0
	73	0	0	0	0	0	0	0 0
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	75 76	1	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	0	0	0	0	0	0	0 0
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##		0	0	0	0	0	0	0 0
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##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	1 0
##		0	0	0	0	0	0	0 0
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##	90	0	0	0	0	0	0	0 0
##	91	0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	1 0
##		0	0	0	0	0	0	0 0
##	98	0	0	0	0	0	0	0 0

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	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	
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##	107	0	0	0	0	0	0	0 0	
##	108	0	0	0	0	0	0	0 0	
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	124	0	0	0	0	0	1	0 0	
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	128	0	0	0	0	0	0	0 0	
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	130 131	0	0	0	0	0	0	0 0 1	
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	156	0	0	0	1	0	0	0 0
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	159	0	0	0	0	0	0	0 0
	160	0	0	0	0	0	0	0 0
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##	165	1	0	0	0	1	0	0 0
##	166	0	0	0	0	0	0	0 0
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##	171	0	0	1	0	0	0	0 0
##	172	0	0	0	0	0	0	0 0
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	175	0	0	0	1	0	0	0 0
	176	0	0	0	0	0	0	0 0
	177	0	0	0	0	0	0	0 0
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	179	0	0	0	0	0	0	0 0
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	182	0	0	1	0	0	1	0 0
	183	0	0	0	0	0	0	0 0
	184	0	0	0	0	0	0	0 0
	185	0	0	0	0	0	0	0 0
	186	0	0	0	0	0	0	0 0
	187	0	0	0	0	0	0	0 0
	188	0	0	0	0	0	0	0 0
	189 190	0	0	0	0	0	0	0 0
	190	0	0	0	0	0	0	0 0
	192	0	0	0	0	0	0	0 0
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	203	0	0	0	1	0	0	0 0
	204	0	0	0	0	0	0	0 0
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	208	0	0	0	0	0	0	0 0
	209	0	0	0	0	0	0	0 0
	210	0	0	0	0	0	0	0 0
	211	0	0	0	0	0	0	0 0
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	214	0	0	0	0	0	0	0 0
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	219	0	0	0	0	0	0	0 0
	220	0	0	0	0	0	0	0 0
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	244 245	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
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	264	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
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	352 353	0	0	0	0	0	0	0 0
	354	0	0	0	0	0	0	0 0
	355	1	0	0	0	0	0	0 0
	356	0	0	0	0	0	0	0 0
	357	0	0	0	0	0	0	0 1
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	361	0	0	0	0	0	0	0 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	1	0	0 0
	366	0	0	0	0	0	0	0 0
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##	369	1	1	0	0	0		0	0 0
##	370	0	0	0	0	0		0	0 0
	371	0	0	0	0	0		1	0 1
	372	0	0	0	0	0		0	0 0
	373	0	0	0	0	0		0	0 0
	374	0	0	0	0	0		1	1 0
	375	0	0	0	0	0		0	0 0
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	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
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	381	0	0	0	0	0		1	0 0
	382	0	0	0	1	0		0	0 0
	383	0	0	0	0	0		0	0 0
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	385	0	0	0	0	0		0	0 0
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##	387	1	0	0	0	0		0	0 0
	388	0	0	0	0	0		0	0 0
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	390	0	0	0	0	0		0	0 0
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	392	0	0	0	0	0		0	0 0
	393	0	0	0	0	0		0	0 0
	394	0	0	1	0	1		0	0 0
	395	0	0	0	0	0		0	0 0
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	397	0	0	0	0	0		0	0 0
	398	0	0	0	0	0			0 0
	399	0	0	0	0	0		0	0 0
	400	0	0	0	0	0			0 0
##	401	0	0	0	0	0			0 0
##								mu_CROCCP2	
##	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
##		0	0	0	0	0	1	1	1
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	1	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	1
##		0	0	0	0	0	0	0	0
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##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
## ##		0	0	0	0	0	0	0	0
##		0		0	0			0	0
##		0	0	0	0	0	0	0	0
44.44	∠∪	0	0	U	U	1	0	U	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	1	0
## 28	0	0	0	0	0	0	0	0
## 29	0	0	0	0	1	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	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	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	0	0	0	0	0	0	0	0
## 43	0	0	0	0	0	0	0	0
## 44	0	0	0	0	0	0	1	0
## 45	0	0	0	0	0	0	0	0
## 46	0	0	0	0	0	0	0	1
## 40 ## 47	0	0	0	0	0	1	0	0
## 48	0	0	0	0	0	0	0	0
## 49	0	0	0	0	0	0	0	0
## 50	0	0	1	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	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	1	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
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## 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
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## 71 ## 70	0	0	0	0	0	0	0	0
## 72	0	0	0	0	0	0	0	0
## 73	0	0	0	0	0	0	1	0
## 74	0	0	0	0	0	0	0	0

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##		0	0	0	0	0	0	0	0
##		0	0	1	0	0	0	1	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
	88	0	0	0	1	0	0	0	0
##		0	0	0	0	0	0	0	1
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	91	0	0	0	0	0	0	0	0
	92	0	0	0	0	0	0	0	0
##		0	1	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	1	0	0	0
	100	0	0	0	0	0	0	0	0
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	102	0	0	0	0	0	0	1	0
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	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	0	0	0	0	0	0	0	0
##	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	0	0	0	0	0	0	0	0
##	114	0	0	0	0	0	1	1	0
##	115	0	0	0	0	0	0	0	0
##	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
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	122	0	0	0	0	0	1	0	0
	123	0	0	0	0	0	0	0	0
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	125	0	0	0	0	0	0	1	0
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	127	0	0	0	0	0	0	0	0
##	128	0	0	0	0	0	0	0	0

## 129				_		_	_		_
## 131									
## 132									
## 133			0					0	0 0
## 134			0		0	0	0	0	0 0
## 135	##	133	0	0	0	0	0	0	0 0
## 136	##	134	0	0	0	0	0	0	0 0
## 137	##	135	0	0	0	0	0	0	0 0
## 137	##	136	0	0	0	0	0	0	0 0
## 138	##	137	0					0	0 0
## 139									
## 140									
## 141									
## 142									
## 143									
## 144									
## 145									
## 146									
## 147									
## 148									
## 149 0 0 0 0 0 0 0 0 0 0 0 0 0			0					0	0 0
## 150	##	148	0	0	0	0	0	0	0 0
## 151 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	149	0	0	0	0	0	0	0 0
## 152 0 0 0 0 0 0 0 0 0 0 0 0 0	##	150	0	0	0	0	0	0	0 0
## 153 0 0 0 0 0 0 0 0 0 0 0 0 0	##	151	0	0	0	0	1	0	0 0
## 154 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 155 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	152	0	0	0	0	0	0	0 0
## 154 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 155 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	153	0	0	0	0	0	0	0 0
## 155 0 0 0 0 0 0 0 0 0 0 0 0	##	154	0						
## 156 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 157									
## 158									
## 159 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 160 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 161 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 162 0 0 0 0 0 1 0 0 0 0 0 ## 163 0 0 0 0 0 0 0 0 1 0 0 0 ## 164 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 163									
## 164 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 165 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 166									
## 167			0	0		1	0	0	
## 168			0	0	0	0	0	0	0 0
## 169 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	167	0	0	0	0	0	0	0 0
## 170 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	168	0	0	0	0	0	0	0 0
## 171 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	169	0	0	0	0	0	0	0 0
## 171 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	170	0	0	0	0	0	0	0 0
## 172 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	171	0	0	0	0	0	0	0 0
## 173 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 174 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0						
## 175 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 176 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 177 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
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## 180 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 181 0 0 0 1 0 0 0									
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	##	182	0	1	1	1	0	1	0 0

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##	190	0	1	0	0	0	0	1	0
##	191	0	0	0	0	0	0	0	0
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	193	0	0	1	0	0	0	0	0
	194	0	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	1	0	0	0		0
	200	0	0	0	0	0	0		0
	201	0	0	0	0	0	0		0
	202 203	0	1	0	0	0	0		0
	203	0	0	0	0	0	0		0
	204	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	0
##	212	0	0	0	0	0	0	0	0
##	213	0	0	0	0	0	0	0	0
##	214	0	0	0	0	0	0	0	0
##	215	0	0	0	0	0	0	0	0
	216	0	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	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
	223 224	0	0	0	0	0	0		0
	225	0	0	0	0	0	0		0
	226	0	0	0	0	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	0	0	0	0	0	0		0
	234	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

шш	027	0	^	^	^	1	0	1 0	
	237	0	0	0	0	1	0	1 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	0	0	0 0	
	242	0	0	0	0	0	0	0 0	
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	244	0	0	0	0	0	0	0 0	1
	245	0	0	0	0	0	0	0 0)
##	246	0	0	0	0	1	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	1	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	1	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)
##	263	0	0	0	0	0	0	0 0)
##	264	0	0	0	0	0	0	0 0)
##	265	0	0	0	0	0	0	0 0)
##	266	0	0	0	0	0	0	0 0)
##	267	0	0	0	0	0	0	1 0)
##	268	0	0	0	0	0	0	0 0)
##	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)
##	272	0	0	0	0	0	0	1 0)
##	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	0	0	0 0)
##	278	0	0	0	1	0	0	0 0)
##	279	0	0	0	0	0	0	0 0)
##	280	0	0	0	0	0	0	0 1	
##	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	1	0 0)
##	285	0	0	0	0	0	0	0 1	
##	286	0	0	0	0	0	0	1 0)
	287	0	0	0	0	0	0	0 0)
	288	0	0	0	1	0	0	1 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
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##	297	0	0	0	0	0	0	0	0
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##	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	1	0
##	302	0	1	0	0	0	0	0	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	0	0	0	0	0	0	0
##	308	0	1	0	0	0	0	0	0
##	309	0	0	0	0	0	0	0	0
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	311	0	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
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	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
	324 325	0	0	0	0	0	0		0
	326	0	0	0	0	0	0		0
	327	0	0	1	0	0	0		0
	328	0	0	0	0	0	0		0
	329	0	0	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
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	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	1	0	0		0
	341	0	0	0	0	0	0		0
##	342	0	0	0	0	0	0	0	0
	343	0	0	0	0	0	0		0
##	344	0	0	0	0	0	0	0	0

0.4-	•	•	•		•		•	
## 345	0	0	0	0	0	0	0	0
## 346	0	0	0	0	0	0	0	0
## 347	0	0	0	0	0	0	0	0
## 348	0	1	0	0	0	0	0	0
## 349	0	0	0	0	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	0	0	0	0	0
## 355	0	0	0	0	0	0	0	0
## 356	0	0	0	0	0	0	1	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	0
## 361	0	0	0	0	0	0	0	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	1	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	0	0	0	0
## 369	0	0	0	0	0	0	1	1
## 370	0	0	0	0	0	0	0	0
## 371	0	0	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
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## 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	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	0
## 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	1	0	0	0	0	0
## 390	0	0	0	0	0	0	0	0
## 391	0	0	0	1	0	0	0	0
## 391	0	0	0	1	0	0	0	0
## 392	0	0						
			0	0	0	0	0	0
## 394	0	1	0	0	0	0	0	0
## 395	0	0	0	0	0	0	1	0
## 396	0	0	0	0	0	0	0	0
## 397	0	0	0	0	0	0	0	0
## 398	0	1	0	0	1	1	0	0

	399 400	0	0	0	0	(1 0	0
	401	0	0	0	0	(0	0
##								mu_DYNC2H1	mu_OTOGL
##	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
##		0	0	0	0	0	0	0	0
	5	1	1	1	1	1	0	0	0
##	6	0	0	0	0	0	1	1	1
##	7 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	1	0	0	0	0
##	13	0	0	0	0	0	0	0	0
##	14	0	0	0	0	0	1	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	1	0	0	0	0	0	0
	19	0	0	0	0	0	0	0	0
## ##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##	26	0	1	0	0	0	0	0	0
##	27	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
	30	0	0	0	0	0	0	0	0
	31 32	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
	34	0	0	0	0	0	0	0	0
##		0	0	0	0	1	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##	38	0	0	0	0	0	0	1	0
##		0	0	0	0	1	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	1	0	0	0
##		0	0	0	0	0	0	0	0
## ##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##	50	0	0	0	0	0	0	0	0

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##		0	0	0	0	0	0	0 0	
##		0	0	0	0	1	0	0 0	
##		0	0	0	0	0	0	0 0	
##		0	0	0	0	0	0	0 0	
##		_				1	_		
		0	0	0	0		0	0 0	
##		0	0	0	0	0	0	0 0	
##		0	0	0	0	0	0	0 0	
##		0	0	0	0	1	0	0 0	
##		0	0	0	0	0	0	0 0	
##		0	0	0	0	1	0	0 0	
##	63	0	0	0	0	0	0	0 0	
##		0	0	0	0	0	0	0 0	
##	65	0	0	0	0	1	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	
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##	70	0	0	0	0	1	0	0 0	
##		0	0	0	0	1	0	0 0	
##		1	0	0	0	0	0	0 0	
##		0	0	0	0	0	0	0 0	
##		0	0	0	0	0	0	0 0	
##		0	0	0	0	1	0	0 0	
##		0	0	0	0	1	0	0 0	
##		0	0	0	0	0	0	0 0	
##		0	0	0	0	0	0	0 0	
##		0	0	0	1	0	0	0 0	
##		0	0	0	0	0	1	0 0	
##		0	0	0	0	0	0	0 0	
##	82	0	0	0	0	0	0	0 0	
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##		0	0	0	0	0	0	0 0	
##	85	0	0	0	0	1	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	1	0	0 1	
##	89	0	0	0	0	0	0	0 0	
##	90	0	0	0	0	1	0	0 0	
##		0	0	0	0	0	0	0 0	
##		0	0	0	0	0	0	0 0	
##		0	0	0	0	0	0	0 0	
##		0	0	0	0	0	0	0 0	
##		0	0	0	0	0	0	0 0	
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##		1	0	0	0	0	0	0 0	
##		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	0	0	0	0	0	0	0 0	
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	105	0	0	0	0	0	0	0	0
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##	109	0	0	0	0	1	0	0	0
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	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
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##	116	0	1	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	1	0	0	0
	120	0	0	0	0	0	0	0	0
	121	0	0	1	0	0	0	0	0
	122	0					0		
			0	0	0	0		0	0
	123	0	0	0	0	0	0	0	0
	124	0	0	0	0	1	0	0	0
	125	0	0	0	0	0	0	0	0
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##	127	0	0	0	0	0	0	1	0
##	128	0	0	0	0	0	0	0	0
##	129	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
	137	0	0	0	0	0	0	0	0
	138	0	0	0	0	1	0	0	0
	139	0	0	0	0	0	0	0	0
	140	0	0	0	0	1	0	0	1
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	147	0	0	0	0	1	0	0	0
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	149	0	0	1	0	0	0	0	0
	150	0	0	0	0		0		0
						1		0	
	151	0	0	0	0	0	0	0	0
	152	0	0	0	0	0	1	0	0
	153	0	0	0	0	0	0	0	0
	154	0	0	1	0	0	0	0	0
	155	0	0	0	0	0	0	0	0
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	164	0	0	0	1	1	0	1	0
	165	0	0	0	0	0	0	0	0
	166								
		0	1	0	0	0	0	0	0
	167	0	0	0	0	0	0	0	0
	168	0	0	0	0	0	0	0	0
	169	0	0	0	0	1	0	0	0
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##	171	0	0	0	0	0	0	0	0
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##	173	0	0	0	0	0	0	0	0
	174	0	0	0	0	0	0	0	0
	175	0	0	0	0	1	0	0	0
	176	0				0	0		
			0	0	0			0	0
	177	0	0	0	0	0	0	0	0
	178	0	0	0	0	0	0	0	0
	179	0	0	0	0	0	0	0	0
##	180	0	0	0	0	0	0	0	0
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##	182	0	0	1	0	1	0	0	0
##	183	0	0	0	1	0	0	0	0
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	186	0	1	0	0	0	0	0	0
	187	0	1	0	0	1	0	0	1
	188	0	0	0	0	0	0	0	0
	189	0	0		0		0	0	0
				0		0			
	190	1	0	0	0	0	0	0	0
	191	0	0	0	0	0	0	0	0
	192	0	0	0	0	0	0	0	0
	193	0	0	0	0	0	0	0	0
	194	0	0	0	0	0	0	0	0
##	195	0	0	0	0	0	0	0	0
##	196	0	0	0	0	0	0	0	0
##	197	0	0	0	0	1	0	0	0
##	198	0	0	0	0	0	0	0	0
	199	0	0	0	0	1	0	0	0
	200	0	0	0	0	1	0	0	0
	201	0	0	0	0	0	0	0	0
	202	0	0	0	0	0	0	0	0
	203	0	0	0	0	0	0	0	0
	204	0	0	0	0		0		0
						1		0	
	205	0	0	0	0	0	0	0	0
	206	0	0	0	0	0	0	0	0
	207	0	0	0	0	0	0	0	0
	208	0	0	0	0	0	0	0	0
	209	0	1	0	0	1	0	0	0
##	210	0	0	0	0	0	0	0	0
##	211	0	0	0	0	0	0	0	0
	212	0	0	0	0	0	0	0	0

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##	215	0	0	0	0	0	0	0 0	
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##	217	0	0	0	0	0	0	0 0	
	218	0	0	0	0	0	0	0 0	
	219	0	0	0	1	0	0	0 0	
	220	0	0	0	0	0	0	0 0	
	221	0	0	0	0	0	0	0 0	
	222	0	0	0	0	0	0	0 0	
	223	0	0	0	0	1	0	0 1	
	224				0				
		0	0	0		0	0	0 0	
	225	0	0	0	0	1	0	0 0	
	226	0	0	0	0	0	0	0 0	
	227	0	0	0	0	0	0	1 0	
	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	
	231	0	0	0	0	1	0	0 0	
	232	0	0	0	0	0	0	0 0	
##	233	0	0	0	0	1	0	0 0	
##	234	0	0	0	0	0	0	0 0	
##	235	0	0	0	0	0	0	0 0	
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##	237	0	0	0	0	0	0	0 0	
##	238	0	0	0	0	0	0	0 0	
##	239	0	0	0	0	1	0	0 0	
##	240	0	0	0	0	0	0	0 0	
##	241	0	0	0	0	0	0	0 0	
##	242	0	0	0	0	0	0	0 0	
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##	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	1	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	1	0	0 0	
	254	0	0	0	0	0	0	0 0	
	255	0	0	0	0	0	0	0 0	
	256	0	1	0	0	0	0	0 0	
	257	0	0	0	0	1	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	
	263	1	0	0	0	1	0	0 0	
	264	0	0	0	0	1	0	0 0	
	265	0	1	0	0	0	0	0 0	
	266	0	0	1	0	0	0	0 0	
##	200	V	U	1	J	U	V	0	

								_	
	267	0	0	0	0	0	0		0
##	268	0	0	0	0	0	0	0	0
##	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
	272	0	0	0	0	0	0	0	0
	273	0	0	0	0	0	0	0	0
	274	0	0	0	0	0	0	0	0
	275	0	0	0	0	0	1	0	0
	276	0	0	0	0	0	0	0	0
	277	1	0	0	0	0	0	0	0
##	278	0	0	0	0	0	0	0	0
##	279	0	0	0	0	0	0	0	0
##	280	0	0	0	0	0	0	0	0
##	281	0	1	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	1	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	1	0	0	0
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	293	0	0	0	0	0	0	0	0
	294	0	0	0	0	1	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	0	1	0	0	1	1	0	0
##	303	0	0	0	0	0	0	0	0
##	304	0	0	0	0	0	0	0	0
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	306	0	0	0	0	0	0		0
	307	0	0	0	0	1	0		0
	308	0	0	1	0	0	0		0
	309	0	0	0	0	1	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	0
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	318	0	0	0	0	1	0		0
	319	0	0	0	0	1	0		0
	320	0	0	0	0	1	0		0
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## 32			0		0	1	0	0 0
## 32			0		0	0	0	0 0
## 32			0	0	0	0	0	0 0
## 32		0	0	0	0	0	0	0 0
## 32	25	0	0	0	0	0	0	0 0
## 32	26	0	0	0	0	0	0	0 0
## 32	27	0	0	0	0	1	0	0 0
## 32	28	0	0	0	0	0	0	0 0
## 32	29	0	0	0	0	0	0	0 0
## 33	30		0	0	0	0	0	0 0
## 33	31 (0	0	0		0	0	0 0
## 33			0			0	0	0 0
## 33			0			0	0	0 0
## 33			0			0	0	0 0
## 33			0		0	1	0	0 0
## 33			0			0	0	0 0
## 33			0			0	0	0 0
## 33							0	
## 33			0			0		0 0
			0				0	0 1
## 34			0			0	0	0 0
## 34			0			0	0	0 1
## 34			0			0	0	0 0
## 34			0			0	0	0 0
## 34			0			0	0	0 0
## 34			0			0	0	0 0
## 34			0			0	0	0 0
## 34		0	0		0	1	0	0 0
## 34		0	0		0	1	0	0 0
## 34	49 (0	0	0	0	1	0	0 0
## 35	50 (0	0	0	0	0	0	0 0
## 35	51 (0	0	0	0	1	0	0 0
## 35	52	0	0	0	0	1	0	0 0
## 35	53 (0	0	0	0	1	0	0 0
## 35	54 (0	0	1	0	1	0	0 1
## 35	55 (0	0	0	0	0	0	0 0
## 35	56	0	0	0	0	0	0	0 0
## 35	57	0	0	0	0	1	0	0 0
## 35	58 (0	0	0	0	0	0	0 0
## 35	59 (0	0	0	0	0	0	0 0
## 36			0			0	0	0 0
## 36			0			0	0	0 0
## 36			0			0	0	0 0
## 36			0			0	0	0 0
## 36			0		0	1	0	0 0
## 36			0			0	0	0 0
## 36			0			0	0	0 0
## 36			0			0	0	0 0
## 36			0		0	1	0	1 0
## 36			0		0	1	0	
## 37			0		0	1	0	0 0
## 37			0		0		0	1 0
## 37			0		0		0	0 0
## 37			0				0	0 0
## 37	/4 (0	0	0	0	0	0	0 0

шш	275	0		^	0	0	0	0	^
	375 376	0		0	0 0 1	0	0	0 0	0
	377	0		0	0 0	0 1	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	0	0
	381	1		0	0 0	1	0	0	0
##		0		0	0 0				0
	382	0		0	0 0	0	0	0	0
##	383 384	0		0	0 0	1	0	0	0
##	385	0		0	0 0	1	0	0	0
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	393	0		0	0 0	0	0	0	0
	394	0		0	0 0	1	0	1	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 0	1	0	0	1
	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_TNRC6B	mu_NF1		mu_ADAMTSL1				
	1	mu_TNRC6B 0	mu_NF1 O			mu_CACNA1D			
	1 2			mu_PCLO	mu_ADAMTSL1	mu_CACNA1D	mu_FBN3	mu_MEGF8	mu_DST
##		0	0	mu_PCLO O	mu_ADAMTSL1	mu_CACNA1D 0 0	mu_FBN3 O	mu_MEGF8	mu_DST O
## ## ##	2	0	0	mu_PCLO 0 0	mu_ADAMTSL1 0 0	mu_CACNA1D O O O	mu_FBN3 0 0	mu_MEGF8 0 0	mu_DST 0 0
## ## ##	2 3 4 5	0 0 0	0 0 0	mu_PCLO 0 0 0	mu_ADAMTSL1 0 0	mu_CACNA1D 0 0 0 0 0	mu_FBN3 0 0 0	mu_MEGF8 0 0 0	mu_DST 0 0 0
## ## ## ##	2 3 4	0 0 0	0 0 0	mu_PCLO 0 0 0 0	mu_ADAMTSL1 0 0 0 0	mu_CACNA1D 0 0 0 0 0 0 0	mu_FBN3 0 0 0 0	mu_MEGF8 0 0 0 0	mu_DST 0 0 0 0
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## ## ## ## ## ## ##	2 3 4 5 6 7 8 9	0 0 0 0 0 1 0 0	0 0 0 0 0 0 1 0 0	mu_PCLO 0 0 0 0 0 1 0 0 0	mu_ADAMTSL1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CACNA1D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_FBN3 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MEGF8 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DST 0 0 0 0 0 0 0 1 0 0
## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11	0 0 0 0 0 1 0 0	0 0 0 0 0 0 1 0 0	mu_PCLO 0 0 0 0 0 0 1 0 0 0 0 0	mu_ADAMTSL1	mu_CACNA1D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_FBN3 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MEGF8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DST 0 0 0 0 0 0 0 1 0 0 0 0
## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12	0 0 0 0 0 1 0 0 1 0 0	0 0 0 0 0 0 1 0 0 0	mu_PCLO 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	mu_ADAMTSL1	mu_CACNA1D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_FBN3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MEGF8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DST 0 0 0 0 0 0 0 1 0 0 0 0 0 0
## ## ## ## ## ## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12 13	0 0 0 0 0 1 0 0 1 0 0	0 0 0 0 0 0 1 0 0 0 0	mu_PCLO 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0	mu_ADAMTSL1 00 00 00 00 00 00 00 00 00 00 00 00 00	mu_CACNA1D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_FBN3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MEGF8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DST 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
## ## ## ## ## ## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12 13 14	0 0 0 0 0 1 0 0 0 0 0	0 0 0 0 0 0 1 0 0 0 0	mu_PCLO 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	mu_ADAMTSL1 00 00 00 00 00 00 00 00 00 00 00 00 00	mu_CACNA1D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_FBN3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MEGF8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DST 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0
## ## ## ## ## ## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12 13 14 15	0 0 0 0 0 1 0 0 0 0 0 0	0 0 0 0 0 0 1 0 0 0 0 0	mu_PCLO 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	mu_ADAMTSL1 00 00 00 00 00 00 00 00 00 00 00 00 00	mu_CACNA1D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_FBN3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MEGF8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DST 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0
## ## # # # # # # # # # # # # # # # #	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0 0 0 0 0 1 0 0 0 0 0 0	0 0 0 0 0 0 1 0 0 0 0 0	mu_PCLO 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_ADAMTSL1	mu_CACNA1D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_FBN3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MEGF8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DST 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
######################################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	0 0 0 0 0 1 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 0 0 0 0 0 0	mu_PCLO 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	mu_ADAMTSL1	mu_CACNA1D	mu_FBN3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1	mu_MEGF8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
######################################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PCLO 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0	mu_ADAMTSL1 00 00 00 00 00 00 00 00 00 00 00 00 00	mu_CACNA1D	mu_FBN3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0	mu_MEGF8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
######################################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 0 0 0 0 0 0 0 0	mu_PCLO 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	mu_ADAMTSL1 00 00 00 00 00 00 00 00 00 00 00 00 00	mu_CACNA1D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_FBN3 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0	mu_MEGF8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DST
######################################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PCLO 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	mu_ADAMTSL1 00 00 00 00 00 00 00 00 00 00 00 00 00	mu_CACNA1D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_FBN3 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0	mu_MEGF8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DST
########################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PCLO 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	mu_ADAMTSL1	mu_CACNA1D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_FBN3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0	mu_MEGF8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
########################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PCLO 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_ADAMTSL1	mu_CACNA1D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_FBN3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0	mu_MEGF8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DST 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
#########################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PCLO 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_ADAMTSL1	mu_CACNA1D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_FBN3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0	mu_MEGF8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DST
###########################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PCLO 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_ADAMTSL1 00 00 00 00 00 00 00 00 00 00 00 00 00	mu_CACNA1D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_FBN3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MEGF8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DST
#########################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PCLO 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_ADAMTSL1	mu_CACNA1D	mu_FBN3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0	mu_MEGF8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_DST

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	401		0 0	0	0	0	0	0	0
##	101				mu_ABCB1 m				
##	1	0	0	0 0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
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##		0		0					
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		•	•	•	•	•	•	•	•

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		0	0			0			0
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## 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
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## 257	0	0	0	0	0	0	0	0
## 258 ## 259	0	0	0 0	0	0	0	0	0
## 259 ## 260	0	0	0	0	0	0	0 0	0 0
## 260 ## 261	0	0	0	0	0	0	0	0
## 261 ## 262	0	0 0	0	0 0	0 0	0	0	0
## 262 ## 263	0	0	0	0	0	0	0	0
## 263 ## 264	0	0	0	0	0	0	0	0
## 265	0	0	0	0	0	0	0	0
## 265 ## 266	0	0	0	0	0	0	0	0
## 267	0	0	0	0	0	0	0	0
## 267 ## 268	0	0	0	0	0	0	0	0
## 269	0	0	0	0	0	0	0	0
## 20 <i>9</i> ## 270	0	0	0	0	0	0	0	0
## 270	0	0	0	0	0	0	0	0
## 272	0	0	0	0	0	1	0	0
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##	273	0	0	0	0	0	0	0	0
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##	275	0	0	0	0	0	0	0	0
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		*	-	-	-	-	•	•	-

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##	380	0	0	0	0	0	0	0	0

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##	382	0	0	()	0	0	0		0	0
##	383	0	0	()	0	0	0		0	0
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##	385	0	0	()	0	0	0		0	0
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##	387	0	0	()	0	0	0		0	0
##	388	0	0	()	0	0	0		0	0
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##	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		l	0	0	0		0	0
##	395	0	1	-		0	1	0		0	0
##	396	0	0	(0	1	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
##		0	0)	0	0	0		0	0
	401								mı NED		
##	1						mu_DNAH3			mu_r	_
	1	0	0	0	0	0	0	0	0		0
##	2	0	0	0	0	0	0	0	0		0
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	5 6	0	0	0	0	0	0	0	0		0
	7	0	0	0	0	0	0	0	0		0
		0	0	0	0	0	0	0	0		0
##	8 9	0	0	0	0	0	0	0	0		0
##		0	0	0	0	0	0	0	0		0
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##	13 14	0	0	0	0	0	0	0	0		0
##		0	0	0	0	0	0	0	0		0
	15										
##		0	0	0	0	0	0	0	0		0
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## ##		0	0	0	0	0	0	0	0		0
		0	0	0	0	0		0	0		0
##		0	0	0	0	0	0	0	0		1
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##		0	0	0	0	0		0	0		0
##		0	0	0	0	0		0	0		0
##		0	0	0	0	0		0	0		0
##		0	0	1	0	0		0	0		0
##		0	0	0	0	0		0	0		0
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##		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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	54	0	0	0	0	0	0	0	0	0
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##	65	0	0	0	0	0	0	0	0	0
##	66			0						
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##		0	0	0	0	0	0	0		0
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##		0	0	0	0	0	0	0		0
##				0	0					
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	97	0	0	0	0	0	0	0	0	0
	98	0	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0	0
	100	0	1	0	0	0	0	0	0	0
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	121	0		0			0			
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	133		0	0	0		0	0		0
		0				0				
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	137	0	0	0	0	0	0	0		0
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	139	0	1	0	0	0	0	0	0	0
##	140	1	0	0	1	0	1	0	0	0

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	141 142	0	0	0	0	0	0	0		0
			0			0	0	0		
	143	0	0	0	0	1	0	0		0
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	224	0	0	0	0	0	0	1	0	0
	225	0	0	0	0		0			
						0		0	0	0
	226	0	0	0	0	0	0	0	0	0
	227	0	1	0	0	1	0	0	0	0
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##	231	0	0	1	0	0	0	0	0	0
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	233	0	0	0	0	0	0	0		0
	234	0	0	0	0	0	0	1		0
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	244	0	0	0	0	0	0	0		0
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					0	0	0			
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##	248	0	0	0	0	0	0	0	0	0

шш	040	0	^	^	^	^	^	0	0	^
	249 250	0	0	0	0	0	0	0	0	0
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	282	0	0	0	0	0	0	0	0	0
	283									
	284	0	0	0	0	0	0	0	0	0
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	286	0	0	0	0	0	0	0		0
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	289	0	0	0	0	0	0	0		0
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	293	1	0	0	0	0	0	0		0
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	298	0	0	0	0	0	0	0		0
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	300	0	0	1	0	0	0	0	0	0
##	301	0	0	0	0	0	0	0	1	0
##	302	0	1	0	0	0	0	0	0	1

			•			•	•	•	•	_
	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	0
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##	307	0	0	0	0	0	0	1	0	0
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	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
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	323	0	0	0	0	0	0	0		0
	324	0	0	0	0	0	0	0		0
	325	0	0	0	0	0	0	0		0
	326			0						
		1	0		0	0	0	0		0
	327	0	0	0	0	0	0	0		0
	328	0	0	0	0	0	0	1		0
	329	0	0	0	0	0	0	0		0
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##	332	0	0	1	0	0	0	0	1	0
##	333	0	0	0	0	0	0	0	0	0
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##	335	0	0	0	0	0	0	0	0	0
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	337	0	0	0	0	0	0	0		0
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	340	0	0	0	0	0	0	0		0
	341		0	0	0		0	0		0
		0				0				
	342	0	0	0	0	0	0	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	0	0		0
	346	0	0	0	0	0	0	0		0
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	354	0	1	1	0	0	0	0		0
	355	0	0	0	0	0	0	0		0
	356	0	0	0	0	0	0	0		0
##	550	U	J	U	U	J	U	U	V	U

##	357	0	0	0	0	0		0	0	1		0
##	358	0	0	0	0	0		0	0	0		0
##	359	0	0	0	0	0		0	0	0		0
##	360	0	0	0	0	0		0	0	0		0
##	361	0	0	0	0	0		0	0	0		0
##	362	0	0	0	0	0		0	0	0		0
##	363	0	0	0	0	0		0	0	0		0
##	364	0	0	0	0	0		0	0	0		0
##	365	0	0	0	0	0		0	0	0		0
##	366	0	0	0	0	0		0	0	1		1
##	367	0	0	0	0	0		1	0	0		0
##	368	0	0	0	0	0		0	0	0		0
##	369	0	0	1	0	0		0	1	0		0
##	370	0	1	0	0	0		0	0	0		0
##	371	0	0	1	0	0		1	0	0		0
	372	0	0	0	0	0		0	0	0		0
	373	0	0	0	0	0		1	0	0		0
	374	0	0	0	0	0		0	0	0		0
	375	1	0	0	0	0		0	0	0		0
	376	0	0	0	0	0		0	0	0		0
##	377	0	0	0	0	0		0	0	0		0
	378	0	0	0	0	0		0	0	0		0
	379	0	0	0	0	0		0	0	1		0
	380	0	0	0	0	0		0	0	0		0
	381	1	0	0	0	0		0	0	0		1
	382	0	0	0	0	0		1	0	0		0
	383	0	0	0	0	0		0	0	0		0
	384	0	0	0	0	0		0	0	0		0
	385	0	0	0	0	0		0	0	0		0
##	386	0	0	0	0	0		0	0	0		0
##	387	0	0	0	0	0		0	0	0		0
##	388	0	0	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
##	392	0	0	0	0	0		0	0	0		0
##	393	0	0	0	0	0		0	0	0		0
##	394	1	0	0	0	0		0	0	1		0
##	395	0	0	0	0	0		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 m	u_PDE4	DIP mu_N	ИҮНЭ	mu_AFF2	mu_COL6	A5 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	
##		0	0	0		0	0	0		0	0	
##	8	0	0	0		0	0	0		0	0	

	0	^	•	^	^	^	^	^	^
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
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##	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
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##	23	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
	25	0	0	0	0	0	0	0	0
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##		0	0	0	0	0	0	0	0
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##		0	0	0	0	0	0	0	0
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##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0							
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
	44	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	1	0	1	0	1	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	1
##		0	0	0	0	0	0	0	0
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##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##	57	0	0	0	0	0	0	0	0
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##		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

шш	60	^	^	0	^	^	0	^	^
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
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##	75	0	0	0	0	0	0	0	0
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	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
##		0	1	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##									
		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
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##		0	0	0	0	0	0	0	0
##		0	0	1	0	0	0	0	0
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##		0	0	0	0	0	0	0	0
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	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
#		•	-	•	•	-	-	•	J

##	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
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	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
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##	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
	134	0	0	0	0	0	0	0	0
	135	0	0	0	0	0	0	0	0
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##	139	0	0	0	0	0	0	0	0
##	140	0	1	1	0	0	0	0	0
	141	0	0	0	0	0	0	0	0
	142	0	0	0	0	0	0	0	0
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##	145	0	0	0	1	0	0	0	1
##	146	0	0	0	0	0	0	0	0
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	150	0	0	0	0	0	1	0	0
	151	0	0	0	0	0	0	0	1
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	156	0	0	0	0	1	0	0	0
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	158	0	0	0	0	0	0	0	0
	159	0	0	0	0	0	0	0	0
	160	0	0	0	0	0	0	0	0
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	163	0	0	0	0	0	0	0	0
	164	0	0	0	0	0	1	0	0
	165	0	0	0	0	0	0	0	0
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	167	0	0	0	0	0	0	0	0
	168	0	0	0	0	0	0	0	0
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	177	0	0	0	0	0	0	0	0
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	180	0	0	0	0	0	0	0	0
	181	0	0	0	0	0	0	0	0
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	185	0	0	0	0	0	0	0	1
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	187	0	0	0	0	0	0	0	0
	188	0	0	0	0	0	0	0	0
	189	0	0	0	0	0	0	0	0
	190	0	0	0	0	0	0	0	0
##	191	0	0	0	0	0	0	0	0
##	192	0	0	1	0	0	0	0	0
##	193	0	1	0	0	0	0	0	0
##	194	0	0	0	0	0	0	0	0
##	195	0	0	0	0	0	0	0	0
##	196	0	0	0	0	0	0	1	0
##	197	0	0	0	0	0	0	0	0
##	198	0	0	0	0	0	0	0	0
##	199	0	0	0	0	0	0	0	0
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	216	0	0	0	0	0	0	0	0
	217	0	0	0	0	0	0	0	0
	217		0	0	0	0	0	0	
		0							0
	219	1	0	0	0	0	0	1	0
	220	0	0	0	0	0	0	0	0
	221	0	0	0	0	0	0	0	0
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##	224	0	0	0	0	0	0	0	0

	225	0	0	0	0	0	0	0	0
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##	227	1	0	0	0	0	0	0	0
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##	230	0	0	1	0	0	0	0	0
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##	232	0	0	0	0	0	0	0	0
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	234	0	0	0	0	0	0	0	0
	235	0							0
			0	0	0	0	0	0	
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	238	0	0	0	0	1	0	0	0
	239	0	0	0	0	0	0	0	0
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##	244	0	0	0	1	0	0	0	0
##	245	0	0	0	1	0	0	0	0
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	248	0	0	0	0	0	0	0	0
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	250	0	0	0	0	0	0	0	0
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##	260	0	0	0	0	0	0	0	0
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##	262	0	0	0	0	0	0	0	0
##	263	0	0	0	0	0	0	0	0
##	264	0	0	1	0	0	0	0	0
##	265	0	0	0	0	0	0	0	0
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	268	0	0	0	0	0	0	0	0
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	270	0	0	0	0	0	0	0	1
	271	0	0	0	0	0	0	0	0
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	273		0	0	0	0	0	0	
		0							0
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	275	0	0	0	0	0	0	0	0
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	277	0	0	0	0	0	0	0	0
##	278	0	0	0	0	0	0	0	0

## 279	##	270	^	^	0	0	0	0	0 0
## 281									
## 282									
## 283									
## 284									
## 285									
## 286									
## 287									
## 288									
## 289									
## 290									
## 291 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 292									
## 293 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 294 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 295 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 296									
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## 301									
## 302									
## 303 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 305 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 304									
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## 306 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 307									
## 308									
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## 310									
## 311 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 312 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 313									
## 314 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 315 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0			0			
## 315 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 316 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 317				0					
## 318									
## 319									
## 320 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 321 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 322 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0					
## 323 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 324 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 325 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 326 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0						
## 327									
## 328									
## 329 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
## 330 0 1 0 0 0 0 0 0 0 0 0 0 ## 331 1 0 0 0 0 0 0 0 0									
## 331 1 0 0 0 0 1 0 0									
			0						
## 332 0 0 0 0 0 0 0 1									
	##	332	0	0	0	0	0	0	0 1

##	333	0	0	0	0	0	0	0 0
##	334	0	0	0	0	0	0	0 0
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	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 1
	340			0		0	0	
		0	0		0			
	341	0	0	0	0	0	0	0 0
	342	0	0	0	0	0	0	0 0
	343	0	0	0	0	0	0	0 0
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	355	0	0	0	0	0	0	0 0
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	357							
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##	367	0	0	0	0	0	0	1 0
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	370	0	0	0	0	0	0	0 0
	371	0	0	0	1	1	0	1 0
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	373	0	0	0	0	0	0	0 1
	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
				0	0	0	0	
	377	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	0 0
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##	382	0	0	0	0	0	0	0 0
	383	0	0	0	0	0	0	0 0
	384	1	0	0	0	0	0	0 0
	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	1
	389	1	0	0		0	0		0	0	0
	390 391	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	0		0	1		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	1		0	0		0	1	0
##	399	0	0	0		0	0		0	0	0
##	400	0	0	0		0	0		0	0	0
##	401	1	0	0		0	0		0	0	0
##		${\tt mu_MACF1}$	mu_APOB	${\tt mu_CNTRL}$	${\tt mu_FLG}$	${\tt mu_FMN2}$	mu_U	JBR4	mu_GPR98	${\tt mu_PKHD1}$	mu_PTEN
##	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
## ##	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	0	0	0		0	0	0	0
	15	1	0	0	0	0		0	0	0	0
	16	0	0	0	0	0		0	1	1	1
	17	0	0	0	0	0		0	0	0	0
##	18	0	0	0	0	0		0	0	0	0
##	19	0	0	0	0	0		0	0	0	0
##	20	0	0	0	0	0		0	0	0	0
##		0	0	0	0	0		0	0	0	0
##		0	0	0	0	0		0	0	0	0
##		0	0	0	0	0		0	1	0	0
##		0	0	0	0	0		0	0	0	0
##		0	0	0	0	0		0	0	0	0
##		1	0	0	0	0		0	0	0	0
## ##		1 0	0	0	0	0		0	0	0	0
##		0	0	0	0	0		0	0	0	0
##		0	0	0	0	0		0	0	0	0
##		0	0	0	0	0		1	0	1	0
##		0	0	0	0	0		0	0	0	0
##		0	0	0	0	0		0	0	0	0
##		0	0	0	0	0		1	0	0	0
##		0	0	0	0	0		0	0	0	0
##		0	0	0	0	0		0	0	0	0
##	37	0	0	0	0	0		0	0	0	0
##	38	0	0	0	0	0		0	0	0	1

			•	•	•	•				_
##		0	0	0	0	0	0	0)
##		0	0	0	0	0	0	0		C
##		0	0	0	0	1	1	0)
##		0	0	0	0	0	0	0)
##	43	0	0	0	0	0	0	0	0 (C
##	44	0	0	0	0	0	0	0	0 (С
##	45	0	0	0	0	0	0	0	0 (С
##	46	1	1	1	0	0	1	0	0 (С
##	47	0	0	0	0	0	0	0	0 (С
##	48	0	0	0	0	1	0	0	0 (С
##	49	0	0	0	0	0	0	0	0 (С
##	50	0	0	0	0	0	0	0		С
##		0	0	0	0	0	0	0		С
##		0	0	0	0	0	0	0)
##		0	0	0	0	0	0	0)
##		0	0	0	0	0	0	0)
##		0	0	0	0	0	0	0)
##		0	0	0	0	0	0	0)
##		0	0	0	0	0	0	0)
##		0	0	0	0	0	0	0)
##										
##		0	0	0	1	0	0	0) 1
##		0	0	0	0	0	0	0) 1
		0	0	0	0	0	0	0)
##		0	0	0	0	0	0	0)
##		0	0	0	0	0	0	0))
##		0	0	0	0	0	0	0)
##		0	0	0	0	0	0	0)
##		0	0	0	0	0	0	0)
##		0	0	0	0	0	0	0)
##		0	0	0	0	0	0	0)
##		0	0	0	0	0	0	0		0
##		0	1	0	0	0	0	0		0
##		0	0	0	0	0	0	0		0
##		0	0	0	0	0	1	0)
##		0	0	0	0	0	0	0)
##	74	0	0	0	0	0	0	0		C
##		0	0	0	0	0	0	0)
##		0	0	0	0	0	0	0)
##		0	0	0	0	0	0	0		C
##		0	0	0	0	1	0	0		C
##		0	0	0	0	0	0	0		C
##		1	0	0	0	0	0	0		C
##		1	0	0	0	0	0	1		C
##		0	0	0	0	0	0	0		C
##		0	0	0	1	0	0	0		C
##	84	0	0	0	0	0	0	0	0 (С
##		0	0	0	0	0	0	0		С
##		0	0	0	1	0	0	0		С
##		0	0	0	0	0	0	0		С
##	88	0	0	0	0	0	0	0	0 (С
##		0	0	0	0	0	0	0		С
##	90	0	0	0	0	0	0	0	0 (С
##	91	0	0	0	0	0	0	0	0 (С
##	92	0	0	0	1	0	0	0	0 (С

##	93	0	0	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	0	0	0	0	0	0	0
##	97	0	0	0	0	0	0	0	0	0
##	98	0	0	0	0	0	0	0		0
##		1	0	0	0	0	0	0		0
	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
	103									
		0	0	0	0	0	0	0		0
	105	0	0	0	0	0	1	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	0	0	0	0	0	0	0		0
	111	0	0	0	0	0	0	0		0
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	134	0	0	0	0	0	0	0		1
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	136	0	0	0	0	0	0	0		0
	137	0	0	0	0	0	0	0		0
	138	0	0	0	0	0	0	0		0
	139	0	0	0	0	1	0	0		0
	140	0				0	0			
			0	0	1			1		0
	141	0	0	0	0	0	0	0		0
	142	0	0	0	0	0	0	0		0
	143	0	0	0	0	0	0	1		0
	144	0	0	0	0	0	0	0		0
	145	0	0	0	1	1	0	0		0
##	146	0	0	0	0	0	0	0	0	0

##	147	0	0	0	0	0	0	0	0	0
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##	149	0	0	0	0	0	0	0	0	0
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##	152	0	0	0	0	0	0	0	0	0
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	154	0	0	0	0	0	1	0	0	0
	155	0	0	0	0	0	0	0	0	0
	156	1	0	0	0	0	0	0	0	0
	157	0	0	0	0	0	0	0	0	0
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	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	0	0	0	0
	162	0	1	1	0	0	0	0	0	1
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	166	0	0	0	0	0	0	0	0	0
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	168	0	0	0	0	0	0	0	0	0
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##	176	0	0	0	0	0	0	0	1	0
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##	179	0	0	0	0	0	0	0	0	0
##	180	0	0	0	0	0	0	0	0	0
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##	182	0	1	0	0	0	0	1	0	0
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##	184	0	0	0	0	0	0	0	0	0
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	186	0	0	0	0	0	0	0		0
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	188	0	0	0	1	0	0	0		0
	189	0	0	0	0	0	0	0		0
	190	0	0	0	0	0	0	0		0
	191	0	0	0	0	0	0	0		0
	192	0	0	0	0	0	0	0		0
	193	0	0	0	0	0	0	0		0
	194	0	0	0	0	0	0	0		0
	195	0	0	0	0	0	0	0		0
	196	0	0	0	0	0	0	0		0
	197	0	0	0	0	0	1	0		0
	198	0	0	0	0	0	0	0		0
	199	0	0	0	0	0	0	0		0
	200	0	0	0	0	0	0	1		0
ππ	200	•	U	J	•	•	v	1	•	J

##	201	0	0	0	0	0	0	0	0 0
##	202	0	0	0	0	0	0	0	0 0
##	203	0	0	0	1	0	0	0	0 1
##	204	0	0	0	0	0	0	0	0 0
	205	0	0	0	0	0	0	0	0 0
	206	0	0	0	0	0	0	0	0 0
	207	0	0	0	1	0	0	0	0 0
	208	0	0	0	0	0	0	0	0 0
	209	0	0	0	0	0	0	0	0 0
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	216	0	1	0	0	0	0	0	0 0
	217	0	0	0	0	0	0	0	0 0
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	219	0	0	0	1	0	0	0	0 1
	220	0		0	0	0			
			0				0	0	
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	222	0	0	0	0	0	0	0	0 0
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	235	0	0	0	0	0	0	0	0 0
	236		0						
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	269	0	0	0	0	0	0	0	1 0
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	273274	0	0	0	1	0	0	0	0 0
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	278	0	1	0	0	0	1	0	0 0
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	280	0	0	0	0	0	1	0	0 0
	281	0	0	0	0	0	0	0	0 0
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	292	0	0	0	0	0	0	0	0 0
	293	0	0	0	0	1	0	0	0 0
	294	0	0	0	0	0	0	0	0 1
	295 296	0	0	0	0	1	0	0	0 0
	297	1	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	0	0 0
	302	0	0	1	0	0	0	1	1 0
	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	0	0	0 0
	307	0	1	0	0	0	0	0	0 0
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			_				_	_	
## 309	0	1	0	0	0	0	0	0	0
## 310	0	0	0	0	0	0	0	0	0
## 311	0	1	0	1	0	0	0	0	0
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## 315	0	0	0	1	0	0	0	0	0
## 316	0	0	0	0	0	0	0	0	0
## 317	0	0	0	0	1	0	0	0	0
## 318	1	0	0	0	0	0	0	0	0
## 319	0	0	0	0	0	0	0	0	0
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## 321	0	0	1	0	0	0	0	0	0
## 321 ## 322			0						
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## 325	0	0	0	0	0	0	0	0	0
## 326	0	0	0	0	0	0	0	0	0
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## 337	0	0	0	0	0	0	0	0	0
## 338	0	0	0	0	0	0	0	0	0
## 339	0	0	0	1	0	0	0	0	0
## 340		0	0	0	0				0
	0					0	0	0	
## 341	0	0	0	0	0	0	0	0	0
## 342	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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## 347	0	0	0	0	0	0	0	0	0
## 348	0	0	0	0	0	0	0	0	0
## 349	0	1	0	0	0	0	0	0	0
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## 352	0	1	0	0	0	0	0	0	0
## 353	0	0	0	0	0	0	0	0	0
## 354	0	0	0	0	0	0	0	0	1
## 355	0	0	0	0	0	0	0	0	0
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## 357	0	0	0	0	0	0	0	0	0
## 358	0	0	0	0	0	0	0	0	0
## 359	0	0	0	0	0	0	0	0	0
## 369 ## 360	0	0	0	0	0	0	0	0	0
## 361	0	0	0	0	0	0	0	0	0
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	366	0	0	0	0		0		0		0		0	0
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	373	0	0	0	0		0		0		0		0	0
	374	0	0	0	0		0		0		0		0	0
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	376	0	0	0	0		0		0		0		0	0
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##	382	0	0	0	1		0		1		0		0	0
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	390	0	0	0	0		0		0		0		0	0
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	392	1	0	0	1		0		0		0		0	0
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##	401	1	0	0	0		0		0		0		0	0
##		mu_VPS13D			mu_FAM1		mu_S		mu_		mu.		mu.	
##		0	0	0		0		0		0		0		0
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##		0	0	0		0		0		0		0		0
##		0	0	0		0		0		0		0		0
##		0	0	0		0		0		0		0		0
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	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
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##	15	0	0	0	0	0	0	0	0
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##		0	0	0	0	0	0		0
##		0	0	0	0	0	0		0
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##		0	0	0	0	0	0		0
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##		0	0	0	1	0	0		0
##		0	0	0	0	0	0		0
## ##		0	0	0	0	0	0		0
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##		0	0	0	0	0	0		0
##		0	0	1	0	0	0		0
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##		0	0	0	0	0	0		0
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##		0	0	0	0	0	1		0
##		0	0	0	0	0	0		0
##		0	0	0	0	0	0		0
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##		0	0	0	0	0	0		0
##		0	0	0	1	0	0		0
##	UU	U	U	U	1	V	U	U	U

##	69	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
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##		0	0	0	0	0	0	0	0
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##	76	0	0	0	0	0	0	0	0
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##		0	0	0	0	0	0	0	0
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## ##		0	0	0	0	1	0	0	0
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	111 112	0	0	1	0	0	0	0	0
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	119	0	0	0	0	0	0	0	0
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	137	0	0	0	0	0	0	0	1
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	169	0	0	0	1	0	0	0	0
	170	0	0	0	0	0	0	0	0
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	389 390	0	0	0	0	0	0	0	0
	390		0	0	0	0	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
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	397		0		0		0		0		0	0	0	0
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	400 401		0		0		0		0 0		0	0	0	0
##	401	mu_RP1		INX1		TRP	mu_WDR52	mıı		mıı			mu_FRAS1	mu_RELN
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##	3	0		0		0	0		0		0	0	0	0
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##	6	0		0		0	0		0		0	0	0	0
	7	0		0		0	0		0		0	0	0	0
## ##	8 9	0		0		0	0		0		0	0	0	0
	9 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
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	17	0		0		0	0		0		0	0	0	0
	18	0		0		0	0		0		0	0	0	0
	19	0		0		0	0		0		0	0	0	0
	20 21	1		1		1	0		0		0	0	0	0
	22	0		0		0	0		1		1	1	0	0
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	24	0		0		0	0		0		0	0	1	1
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##		0		0		0	1		0		0	0	0	0
##		0		0		0	0		0		0	0	0	0
## ##		0		0		0	0		0		0	0	0	0
##		0		0		0	0		0		0	0	0	0 0
##		0		0		0	0		0		0	0	0	0
##		0		0		0	0		0		0	0	0	0
##		0		0		0	0		0		0	0	0	0
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##		0		0		0	0		0		0	0	0	0
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##		0		0		0	0		0		0	0	0	0
## ##		0		0		0	0		0		0	0	0	1 0
##		0		0		0	0		0		0	0	0	0
##		0		0		0	0		0		0	0	0	0
		-		-		-	_		-		-	_	-	-

##	45	0	0	0	0	0	0	0	0	0
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##										
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	137	0	0	0	0	0	0	0	0 0
	138	0	0	0	1	0	0	0	0 0
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	165	0	0	0	0	0	0	0	0 1
	166	0	0	0	0	0	0	0	0 0
	167	0	0	0	0	0	0	0	0 0
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	169	0	0	0	0	0	0	0	0 0
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	173 174	0	0	1	0	0	0	0	0 0
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	177	0	0	0	0	0	0	0	0 0
	178	0	0	0	0	0	0	0	0 0
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	180	0	0	0	0	0	0	0	0 0
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	182	1	0	0	0	0	0	0	1 0
	183	0	0	0	0	0	0	0	0 0
	184	0	0	0	0	0	0	0	0 0
##	185	0	0	0	0	0	0	0	0 0
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##	187	0	0	0	0	0	1	0	0 0
##	188	0	0	0	0	0	0	0	0 0
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	190	0	0	0	0	0	0	0	0 0
	191	0	0	0	0	0	0	0	0 0
	192	0	0	0	0	0	0	0	0 0
	193	0	0	0	0	0	0	0	0 0
	194	0	0	0	0	0	0	0	0 0
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	198	0	0	0	0	0	0	0	0 1
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	201 202	0	0	0	0	0	0	0	0 0
	202	0	0	0	0	0	0	0	0 0
	203	0	0	0	0	0	0	0	0 0
	204	0	0	0	0	0	0	0	0 0
	206	0	0	0	0	0	0	0	0 0
		-	-	-	-	-	-	-	. •

		_				_				
	207	0	0	0	0	0	0	0	0 0	
##	208	0	0	0	0	0	0	0	0 0	1
##	209	0	0	0	0	0	0	0	0 0)
##	210	0	0	1	0	0	0	0	0 0)
##	211	0	0	0	0	0	0	0	0 0)
##	212	0	0	0	0	0	0	0	0 0)
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	214	0	0	0	0	0	0	0	0 0	
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	216	0	0	0	0	0	0	0	0 0	
	217	0	0		0			0		
				0		0	0		0 0	
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	219	0	1	0	0	0	0	0	0 1	
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	221	0	0	0	0	0	0	0	0 1	
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##	223	0	0	0	0	0	0	0	0 0)
##	224	0	0	0	0	0	0	0	0 0)
##	225	0	0	0	0	0	0	0	0 0)
##	226	0	0	0	0	0	0	0	0 0)
##	227	0	0	0	0	0	0	0	0 0)
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	231	0	0	0	0	1	0	0	0 0	
	232							0		
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	233	0	0	0	1	1	0	0	1 0	
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	235	0	0	0	0	0	0	0	0 0	
	236	0	0	0	0	0	0	0	0 0	,
##	237	0	0	1	0	0	0	0	0 0	1
##	238	1	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	0	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	0 0)
##	244	0	0	1	0	0	0	0	0 0)
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	248	0	0	0	0	0	0	0	0 0	
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				0			0	0	0 1	
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	253	0	0	0	0	0	0	0	0 0	
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##	256	0	0	0	0	0	0	0	0 0)
##	257	0	0	0	0	0	0	0	0 0)
##	258	0	0	0	0	0	0	0	0 0)
	259	0	0	0	0	0	0	0	0 0)
	260	0	0	0	0	0	0	0	0 0	

	0.64	^	^	0	^	^	^	^		^
	261	0	0	0	0	0	0	0		0
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	263	0	0	1	0	0	0	0		0
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	285	0	0	0	0	1	0	0		0
	286	0	0	0	0	0	0	0		0
	287	0	0	0	0	0	0	0		0
	288	0	0	1	0	0	0	0		0
	289	0	0	0	0	0	0	0		0
	290	0	0	1	0	0	0	0		0
	291	0	0	0	0	0	0	0		0
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	294	0	1	0	0	0	0	0		0
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		0	0	0	0					
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	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	0

##	215	0	^	0	0	^	^	0	0	^
	315 316	0	0	0	0	0	0	0		0
				0			0			0
	317	0	0	0	0	0	0	0		0
	318	0	0	0	0	0	0	0		0
	319	0	0	0	0	0	0	0		0
	320	0	0	0	0	0	1	0		0
	321	0	0	0	0	0	0	0		0
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	323	0	0	0	0	0	0	0		0
	324	0	0	0	0	1	0	0		0
	325	0	0	1	0	0	0	0		0
	326	0	0	0	0	0	0	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	0	0	0	0		0
	331	0	0	0	0	0	0	0		0
##	332	0	0	0	0	0	0	0	0	0
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##	334	0	0	0	0	0	0	0	0	0
##	335	0	0	0	0	0	0	0	0	0
##	336	0	0	0	0	0	0	0	0	0
##	337	0	0	0	0	0	0	0	0	0
##	338	0	0	0	0	0	0	0	0	0
##	339	0	0	0	0	0	0	0	0	0
##	340	0	0	0	0	0	0	0	0	0
##	341	0	0	0	0	0	0	0	0	0
##	342	0	0	0	0	0	0	0	0	0
##	343	0	0	0	0	1	0	0	0	0
##	344	0	1	0	0	0	0	0	0	0
##	345	0	0	0	0	0	0	0	0	0
##	346	0	0	0	0	0	0	0	0	0
##	347	0	1	0	0	0	0	0	0	0
##	348	0	0	0	0	0	0	0	0	0
##	349	0	0	0	0	0	0	0	0	0
##	350	0	0	0	0	0	0	1	0	0
##	351	0	0	0	0	0	0	0	0	0
##	352	0	0	0	0	0	0	0	0	0
	353	0	0	0	0	0	0	0	0	0
	354	0	0	0	1	0	1	0	0	0
	355	1	0	0	0	0	0	0		0
	356	0	0	0	0	0	0	0		0
	357	0	1	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		0
	361	0	0	0	0	0	0	0		1
	362	0	0	0	0	0	0	0		0
	363	1	0	1	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	0	0	0		0
и п	555	•	•	-	•	•	-	•	-	-

##	369	0	0	0	0	0	0	0	0	0
##	370	0	0	0	0	0	0	0	0	0
##	371	1	0	0	1	0	0	1	1	1
	372	0	0	1	0	0	1	0	0	0
	373	0	0	0	0	0	0	0	0	0
	374	0	0	0	0	0	0	0	0	0
##	375	0	0	0	0	0	0	0	0	0
##	376	0	0	0	0	0	0	0	0	0
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	378	0	0	1	0	0	0	0	0	0
	379	0	0	0	0	0	0	0	0	0
	380	0	0	0	0	0	0	0	0	0
	381	0	0	0	1	0	0	0	0	0
	382	0	0	0	0	1	0	0	0	0
##	383	0	0	0	0	0	0	0	0	0
##	384	0	0	0	0	0	0	0	0	0
##	385	0	0	0	0	0	0	0	0	0
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##	387	0	0	0	0	0	0	0	0	0
	388	0	0	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
##	392	0	0	0	0	0	0	0	0	0
##	393	0	0	0	0	0	0	0	0	0
##	394	0	0	0	0	0	0	1	0	0
##	395	0	0	1	0	0	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	0	0		0	0	0	0	0
	399	0	0	1	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_RPGR	${\tt mu_NOTCH2}$	mu_DNHD1	mu_XIRP:	2 mu_ANF	KRD30BL	mu_CBFB	mu_PDE3A	
##	1	0	0	0	(0	0	0	0	
##	2	0	0	0	(0	0	0	0	
##	3	0	0	0	(0	0	0	0	
##		0	0	0		0	0	0	0	
##		0	0	0		0	0	0	0	
			0			0				
##		0		0			0	0	0	
##		0	0	0		0	0	0	0	
##		0	0	0		0	0	0	0	
##		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	
##		0	0	0		0	0	0	0	
##		0	0	0		0	0	0	0	
##		0	0	0		0	0	0	0	
##		0	0	0		0	0	0	0	
##		0	0	0		0	0	0	0	
##		0	0	0		0	0	0	0	
##		0	0	0	(0	0	0	0	
##	20	0	0	0	(0	0	0	0	

##	21	0	0	0	0	0	0	0
##	22	0	0	0	0	0	0	0
##	23	0	0	0	0	0	0	0
##	24	1	0	0	0	0	0	0
##	25	0	1	0	0	0	0	0
##	26	0	0	1	0	0	0	0
##	27	0	0	0	0	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	0	0	0	0	0	0	0
	32							
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	39	0	0	0	0	0	0	0
	40	0	0	0	0	0	0	0
	41	0	0	0	0	0	0	0
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##	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	0	0	0	0	0	0
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	53	0	0	0	0	0	0	0
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	57	1	0	0	0	0	0	0
	58	0	0	0	0	0	0	0
	59	0	0	0	0	0	0	0
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	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	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

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	76	0	0	0	0	0	0	0
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##	78	0	0	0	0	0	0	0
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	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 92	0	0	0	0	0	0	0
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	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	1	0	0	0
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	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
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	111	0	0	0	0	0	0	0
##	112	0	0	0	0	0	0	0
	113	0	0	0	0	0	0	0
	114 115	0	0	0	0	0	1	0
	116	0	0	0	0	0	0	0
##	117	0	0	0	0	0	0	0
	117	0	0	0	0	0	1	0
	119	0	0	0	0	0	0	0
	120	0	0	0	0	0	0	0
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	122	0	0	0	0	0	0	0
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##	311	0	0	0	0	0	0	0 0	ļ
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	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	1	0
					() ()				
		mu FOXA1							
##	1	mu_FOXA1		mu_CACNA1E	mu_ANKRD1				${\tt mu_MLL}$
##			mu_FCGBP	mu_CACNA1E	mu_ANKRD1	2 mu_CHD5	mu_GRID1	mu_KIF4A	
## ##	1	0	mu_FCGBP 0	mu_CACNA1E 0	mu_ANKRD1	2 mu_CHD5	mu_GRID1 0	mu_KIF4A O	mu_MLL O
## ## ##	1 2	0	mu_FCGBP 0 0	mu_CACNA1E 0 0	mu_ANKRD1	2 mu_CHD5 0 0 0 0	mu_GRID1 0 0	mu_KIF4A O O	mu_MLL O O
## ## ## ##	1 2 3	0 0 0	mu_FCGBP 0 0 0	mu_CACNA1E 0 0 0	mu_ANKRD1	2 mu_CHD5 0 0 0 0 0 0	mu_GRID1 0 0 0	mu_KIF4A 0 0 0	mu_MLL O O O
## ## ## ##	1 2 3 4	0 0 0	mu_FCGBP 0 0 0 0	mu_CACNA1E 0 0 0 0	mu_ANKRD1	2 mu_CHD5 0 0 0 0 0 0 0 0	mu_GRID1 0 0 0 0	mu_KIF4A 0 0 0 0	mu_MLL 0 0 0 0
## ## ## ## ##	1 2 3 4 5	0 0 0 0	mu_FCGBP 0 0 0 0	mu_CACNA1E 0 0 0 0 0	mu_ANKRD1	2 mu_CHD5 0 0 0 0 0 0 0 0 0 0	mu_GRID1 0 0 0 0	mu_KIF4A 0 0 0 0 0	mu_MLL 0 0 0 0 0
## ## ## ## ##	1 2 3 4 5	0 0 0 0 0	mu_FCGBP 0 0 0 0 0	mu_CACNA1E 0 0 0 0 0 0	mu_ANKRD1	2 mu_CHD5 0 0 0 0 0 0 0 0 0 0 0 0	mu_GRID1 0 0 0 0 0 0	mu_KIF4A 0 0 0 0 0 0	mu_MLL 0 0 0 0 0 0
## ## ## ## ## ##	1 2 3 4 5 6 7	0 0 0 0 0	mu_FCGBP 0 0 0 0 0 0	mu_CACNA1E 0 0 0 0 0 0 0	mu_ANKRD1	2 mu_CHD5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_GRID1 0 0 0 0 0 0 0	mu_KIF4A 0 0 0 0 0 0	mu_MLL 0 0 0 0 0 0 0
## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10	0 0 0 0 0 0 0	mu_FCGBP 0 0 0 0 0 0 0 0 0 0	mu_CACNA1E 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_ANKRD1	2 mu_CHD5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_GRID1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_KIF4A 0 0 0 0 0 0 0 0	mu_MLL 0 0 0 0 0 0 0 0 0
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## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12	0 0 0 0 0 0 0 0	mu_FCGBP 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CACNA1E	mu_ANKRD1	2 mu_CHD5 0	mu_GRID1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_KIF4A 0 0 0 0 0 0 0 0 0	mu_MLL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12 13	0 0 0 0 0 0 0 0	mu_FCGBP 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CACNA1E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_ANKRD1	2 mu_CHD5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_GRID1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_KIF4A 0 0 0 0 0 0 0 0 0 0	mu_MLL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## ## ## ## ## ## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12 13 14	0 0 0 0 0 0 0 0 0	mu_FCGBP 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CACNA1E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_ANKRD1	2 mu_CHD5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_GRID1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_KIF4A 0 0 0 0 0 0 0 0 0 0	mu_MLL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## ## ## ## ## ## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	0 0 0 0 0 0 0 0 0	mu_FCGBP 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CACNA1E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_ANKRD1	2 mu_CHD5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_GRID1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_KIF4A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
# # # # # # # # # # # # # # # # # # #	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0 0 0 0 0 0 0 0 0 0	mu_FCGBP 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CACNA1E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_ANKRD1	2 mu_CHD5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_GRID1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_KIF4A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
# # # # # # # # # # # # # # # # # # #	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	0 0 0 0 0 0 0 0 0 0	mu_FCGBP 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CACNA1E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_ANKRD1	2 mu_CHD5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_GRID1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_KIF4A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
######################################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		mu_FCGBP 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CACNA1E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_ANKRD1	2 mu_CHD5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_GRID1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_KIF4A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
######################################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19		mu_FCGBP 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CACNA1E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_ANKRD1	2 mu_CHD5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_GRID1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_KIF4A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
########################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		mu_FCGBP 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CACNA1E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_ANKRD1	2 mu_CHD5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_GRID1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_KIF4A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
########################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		mu_FCGBP 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CACNA1E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_ANKRD1	2 mu_CHD5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_GRID1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_KIF4A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
#########################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		mu_FCGBP 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CACNA1E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_ANKRD1	2 mu_CHD5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_GRID1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_KIF4A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##########################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		mu_FCGBP 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CACNA1E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_ANKRD1	2 mu_CHD5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_GRID1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_KIF4A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##########################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		mu_FCGBP 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CACNA1E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_ANKRD1	2 mu_CHD5 0	mu_GRID1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_KIF4A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##########################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25		mu_FCGBP 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_CACNA1E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_ANKRD1	2 mu_CHD5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_GRID1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_KIF4A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_MLL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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шш	007	^	0	0	^	^	^	^	^
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##	380	0	0		0		0	0		0		0		0
##	381	0	0		0		0	1		0		0		0
##	382	0	0		0		0	0		0		0		0
##	383	0	0		0		0	0		0		0		0
##	384	1	0		0		0	0		0		0		0
	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	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_PCNXL2		mu ST		mıı			CSPP1		PREXO		SMG1	-
##	1	0	0	0	0		0		0		0		0	
##		0	0	0	0		0		0		0			
##	_	U	U	U	U		U		U		U		0	

## 3	0	0	0	0	^	0	^	^
## 3 ## 4	0 0	0 0	0 0	0 0	0	0	0	0
## 5	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
## <i>1</i> ## 8	0	0	0	0		0	0	0
## 0 ## 9	0	0			0			
## 9 ## 10		0	0	0	0	0	0	0
## 10 ## 11	0	0	0	0	0	0	0	0
## 11 ## 12		0	0	0	0	0	0	0
## 12 ## 13	0	0	0	0	0	0	0	0
## 13 ## 14	0	0	0	0	0	0	0	0
## 1 4 ## 15	0	0	0	0	0	0	0	0
## 15 ## 16	0	0	0	0	0	0	0	0
## 10 ## 17	0	0	0	0	0	0	0	0
## 17 ## 18	0 0	0	0 0	0 0	0	0 0	0	0
## 19	0	0	0	0	0	0	0	0
## 19 ## 20		0			0			
## 20 ## 21	0 0	0	0 0	0 0	0	0 0	0 0	0
## 21 ## 22	0	0	0	0	0	0	0	0
## 22 ## 23	0	0	0	0	0	0	0	0
## 23 ## 24	0	0	0	0	0	0	0	0
## 2 4 ## 25	0	0	0	0	0	0	0	0
## 25 ## 26	0	0	0	0	0	0	0	0
## 20 ## 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
## 30	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	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	0	0	0	1	0	0	0	0
## 40	0	0	0	0	0	0	0	0
## 41	1	0	0	0	0	1	1	1
## 42	0	0	0	0	1	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	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	0
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## 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

		_	_			_	_	
##		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
##		0	0	0	0	0	0	1 0
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##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
##		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
##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
##			0					
		0		0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
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##	79	0	0	0	0	0	0	0 0
##	80	0	1	0	1	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
##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
##			0					
		0		0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
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##	94	0	0	0	0	0	0	0 0
##	95	0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	1 0
##		0	0	0	0	0	0	0 0
##		0	0	0	0	0	0	0 0
	100	0	0	0	0	0	0	0 0
		0				0	0	
	101		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
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##	108	0	0	0	0	0	0	0 0
	109	0	0	0	0	0	0	0 0
	110	0	0	0	0	0	0	0 0
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##	111	0	0	^	0	0	1	1	0
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	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	0	0	0	0	0		0
	117		0	0		0	0		0
	117	0	0		0		0		0
	119	0	0	0	0	0	0		0
	120	0	1	0	0	0			
	121		0	0	0		0		0
	122	0	0	0	0	0	0		0
	123	0	0	0	0	0	0		0
	123	0	0	0	0	1	0		0
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	126	0	0	0	0	0	0		0 0
	127	0	0	0	0	0	0		0
	128	0	0			0			
	129	0	0	0	0	0	0		1 0
	130	0	0	0	0	0	0		0
	131	1	0	0	0	0	1		0
	132	0	0	0	0	0	0		0
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	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	0	0	0	0	0		0
	138	0	0	1	0	0	0		0
	139	0	0	0		0	0		0
	140	1	0	0	0	0	1		0
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	142	0	0	0	0	0	0		0
	143	0	0	0	0	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	1	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		0
	152	0	0	0	0	0	0		0
	153	0	0	0	0	0	0		0
	154	0	0	0	0	0	1		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	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	0	0		0
	163	0	0	0	1	0	0		0
	164	1	0	0	0	0	0		0
		-	=	*	-	*	*		•

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	165	1	0	0	0	0	0	0 0
	166	0	0	0	0	0	0	0 0
	167	0	0	0	0	0	0	0 0
	168	0	0	0	0	0	0	0 0
	169	0	0	0	0	0	0	0 0
	170	0	0	0	0	0	0	0 0
##	171	0	1	0	0	0	0	0 0
##	172	0	0	0	0	0	0	0 0
##	173	0	0	0	0	0	0	0 0
##	174	0	0	0	0	0	0	0 0
##	175	0	0	0	0	0	0	0 0
##	176	0	0	0	0	0	0	0 0
##	177	0	0	0	0	0	0	0 0
##	178	0	0	0	0	0	0	0 0
##	179	0	0	1	0	0	0	0 0
##	180	0	1	0	0	0	0	0 0
##	181	0	0	0	0	0	0	0 0
##	182	0	0	0	0	0	1	0 0
##	183	0	0	0	0	0	0	0 0
##	184	0	0	0	0	0	0	0 0
##	185	0	0	0	0	0	0	0 0
##	186	0	0	0	0	0	0	0 0
##	187	0	0	0	0	0	0	0 1
##	188	0	0	0	0	0	0	0 0
##	189	0	0	0	0	0	0	0 0
##	190	0	0	0	0	0	0	0 0
##	191	0	0	0	0	0	0	0 0
##	192	0	0	0	0	0	0	0 0
##	193	0	0	0	0	0	0	0 0
##	194	0	0	0	0	0	0	0 0
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##	196	0	0	0	0	0	0	0 0
##	197	0	0	0	0	0	0	0 0
##	198	0	0	0	0	0	0	0 0
##	199	0	0	0	0	0	0	0 0
##	200	0	0	0	0	0	0	0 0
##	201	0	0	0	0	0	0	0 0
##	202	0	0	0	0	0	0	0 0
##	203	0	0	0	0	0	0	0 0
##	204	0	0	0	0	0	0	0 0
##	205	0	0	0	0	0	0	0 0
##	206	0	0	0	0	0	0	0 0
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	208	0	0	0	0	0	0	0 0
##	209	0	0	0	0	0	0	0 0
##	210	0	0	0	0	0	0	0 0
	211	0	0	0	0	0	0	0 0
	212	0	0	0	0	0	0	0 0
	213	0	0	0	0	0	0	0 0
	214	0	0	0	0	0	0	0 0
	215	0	0	0	0	0	0	0 0
	216	0	0	0	0	0	0	0 0
	217	0	0	0	0	0	0	0 0
	218	0	0	0	0	0	0	0 0

##	210	^	0	^	0	^	^	^	^
	219 220	0	0	0	0	0	0		0
		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	1	0	0	1	0	0	0	0
##	226	0	0	0	0	0	0	0	0
##	227	0	0	0	0	0	0	0	1
##	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	0	0	1	0	0	0	0	1
##	232	0	0	0	0	0	0	0	0
##	233	0	0	0	0	0	0	1	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
	237	0	0	1	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	0		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	0	0	0	0	0		0
	247	0	0	0	0	0	0		0
	248	0	0	1	0	0	0		0
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	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
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	268	0	0	0	0	1	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	0

##	273	0	0	0	0	0	0	0 (0
	274	0	0	0	0	0	0		0
	275	0	0	0	0	1	0	0 (0
##	276	0	0	0	0	0	0	0 (0
##	277	0	0	0	0	0	0	0 (0
##	278	1	0	0	0	0	0	0 (0
##	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	1	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
	291 292	0	0	0	0	0	0		0 0
	292	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	0		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 (0
	301	0	0	0	0	0	0	0 (0
##	302	0	0	1	0	1	0	0 (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	0	0	0	0	0		0
	308	0	0	1	0	0	0		0
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	311 312	0	0	0	0	0	0		0
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	314	0	1	0	0	0	0		0
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	321	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
	324	0	0	0	0	0	0	0 (0
	325	0	0	0	0	0	0		0
##	326	0	0	0	0	0	0	0 (0

		_		_			_	_
## 32		0	0	0	0	0	0	0
## 32	28 0	0	0	0	0	0	0	0
## 32	29 0	0	0	0	0	0	0	0
## 33	30 0	0	0	0	0	0	1	0
## 33	31 0	0	0	0	0	0	0	0
## 33	32 0	0	0	0	0	0	0	0
## 33		0	0	0	0	0	0	0
## 33		0	0	0	0	0	0	0
## 33		0	0		0	0	0	1
				0				
## 33		0	0	0	0	0	0	0
## 33		0	0	0	0	0	0	0
## 33		0	0	0	0	0	0	0
## 33	39 0	0	0	0	0	0	0	0
## 34	40 0	0	0	0	0	0	0	0
## 34	41 0	0	0	0	0	0	0	0
## 34	42 0	0	0	0	0	0	0	0
## 34	43 0	0	0	0	0	0	0	0
## 34	44 0	0	0	0	0	0	0	0
## 34	45 0	0	0	0	0	0	0	0
## 34		0	0	0	0	0	0	0
## 34		0	0	0	0	0	0	0
## 34		0	0	0	0	0	0	0
## 34		0	0	0	0	0	0	0
## 35		0	0	0	0	0	0	0
## 35		0	0	0	0	0	0	0
## 35		0	0	0	0	0	0	0
## 35		1	0	0	0	0	0	0
## 35	54 0	0	0	0	0	1	0	0
## 35	55 0	0	0	1	0	0	0	0
## 35	56 0	0	0	0	0	0	0	0
## 35	57 0	0	0	0	0	0	0	0
## 35	58 0	0	0	0	0	0	0	0
## 35	59 0	0	0	0	0	0	0	0
## 36	30 O	0	0	0	0	0	0	0
## 36		0	0	0	0	0	0	0
## 36		0	0	0	0	0	0	0
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								0
## 36		0	0	0	0	0	0	0
## 36		0	0	0	0	0	0	0
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## 36		0	0	0	0	0	0	0
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## 37		0	0	0	0	0	0	0
## 37	71 0	1	0	0	0	1	0	0
## 37	72 0	0	1	0	0	0	0	0
## 37	73 0	0	0	0	0	0	0	0
## 37	74 0	0	0	0	0	0	0	0
## 37		0	0	0	0	0	0	0
## 37		0	0	0	0	0	0	0
## 37		0	0	0	0	0	0	0
## 37		0	0	0	0	0	0	0
## 37		0	0	1	0	0	0	0
## 38				0			0	0
## 38	30 0	0	0	U	0	0	U	U

шш	201		0	4	0	^	0	0
	381		0 0	1	0	0	0	0
	382		0 0	0	0	0	0	0
	383		0 0	0	0	0	0	0
	384		0 1	0	1	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
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	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 1	0	0	0	0	0
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	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	1	0	0
	400		0 0	0	0	0	0	0
	401	IIDDE	0 0	0	0	0	0 AKAD12	0 ACTN 1
## ##	1		mu_KIAA1210					
##	1 2	0	0	0	0	0	0	0
##	3	0	0	0	0	0	0	0
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##	5	0	0	0	0	0	0	0
##	6	0	0	0	0	0	0	0
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##	12	0	0	0	0	0	0	0
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	15	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
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0 0 0

##	33	0	0	0	0	0	0	0
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	55							
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##	67	0	0	0	0	0	0	0
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##		0	0	0	0	0	0	0
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	72	0	0	1	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		1	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
##		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	1
##		0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
	- •	-	-	-	-	-	-	-

##		0	0	0	0	0	0	0
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	97	0	0	0	0	0	0	0
	98	0	0	0	1	0	0	0
	99	0	0	0	0	0	0	0
##	100	0	0	0	0	0	0	0
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##	104	0	0	0	0	0	0	0
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	109	0	0	0	0	0	0	0
	110	0	0	0	0	0	0	0
	111	0	0	0	1	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
						1		
	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	0	0	0	0	0	0
	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	0	0	0	0	0	0
##	123	0	0	0	0	0	0	0
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	134	0	0	0	0	0	0	0
	136	0	0	0	0	0	0	0
	137	0	0	0	0	0	0	0
	138	0	0	0	0	0	0	0
	139	0	0	1	0	0	0	0
##	140	1	0	1	0	0	0	0

##	141	0	0	^	0	0	0	^
	141	0	0	0	0	0	0	0
	143	0	0	0	0	0	0	0
	143	0	0	0	0	0	0	0
	145	0	0	0	0	0	0	0
	146	0	0	0	0	0	0	0
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	149	0	0	0	0	0	0	0
	150	0	1	0	0	0	0	1
	151	0	0	0	0	0	0	0
	152	1	0	0	0	0	0	0
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	154	0	0	0	0	0	1	0
	155	0	0	0	0	0	0	0
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	158	0	0	0	0	0	0	0
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	160	0	0	0	0	0	0	0
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##	168	0	0	0	0	0	0	0
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	180	0	0	0	0	0	0	0
	181	0	0	0	0	0	0	0
	182	0	0	1	0	0	0	0
	183	0	0	0	0	0	0	0
	184	0	0	0	0	0	0	0
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	186	0	0	0	1	0	0	0
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	188	0	0	0	0	0	0	0
	189	0	0	0	0	0	0	0
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	191	0	0	0	0	0	0	0
	192	0	0	0	0	0	0	0
	193	1	0	0	0	0	0	0
	194	0	0	0	0	0	0	0
ii TT	101	•	•	•	•	•	•	~

## 195									
## 197	##	195	0	0	0	0	0	0	0
## 198 0 0 0 0 0 0 0 0 0 0 0 0 0	##	196	0	0	0	0	0	0	0
## 199	##	197	0	0	0	0	0	0	0
## 200	##	198	0	0	0	0	0	0	0
## 201	##	199	0	0	0	0	0	0	0
## 202	##	200	0	0	0	0	0	0	0
## 203	##	201	0	0	0	0	0	0	0
## 204	##	202	0	0	0	0	0	0	0
## 205	##	203	0	0	0	0	0	0	0
## 206	##	204	0	0	0	0	0	0	0
## 207	##	205	0	0	0	0	0	0	0
## 208	##	206	0	0	0	0	0	0	0
## 209	##	207	0	0	0	0	0	0	0
## 210 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	208	0	0	0	0	0	0	0
## 211 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	209	0	0	0	0	0	0	0
## 212	##	210	0	0	0	0	0	0	0
## 213	##	211	0	0	0	0	0	0	0
## 214 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	212	0	0	0	0	0	0	0
## 215 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	213	0	0	0	0	0	0	0
## 216	##	214	0	0	0	0	0	0	0
## 217 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	215	0	0	0	0	0	0	0
## 218	##	216	0	1	0	0	0	0	0
## 219 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 220 0 0 0	##	217	0	0	0	0	0	0	0
## 220 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 221 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	218	0	0	0	0	0	0	0
## 221 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	219	0	0	0	0	0	0	0
## 222 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0	0	0	0	0	0	0
## 223 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	221	0	0	0	0	1	0	0
## 224 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	222	0	0	0	0	0	0	0
## 225 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	223	0	0	0	0	0	0	0
## 226	##	224	0	0	0	0	0	0	0
## 227 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	225	0	0	0	0	0	0	0
## 228 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	226	0	0	0	0	0	0	0
## 229 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 230 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	227	0	0	0	0	0	0	0
## 230 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	228	0	0	0	0	0	0	0
## 231 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	229	0	0	0	0	0	0	0
## 232 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	230	0	1	0	0	0	0	0
## 233 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 234 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	231	0	0	0	0	1	0	1
## 234 0 0 0 0 0 0 0 0 1 0 0 0 ## 235 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	232	0	0	0	0	0	0	0
## 235 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	233	0	0	0	0	0	0	0
## 236 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	234	0	0	0	0	0	1	0
## 237 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	235	0	0	0	1	0	0	0
## 238 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	236	0	0	0	0	0	0	0
## 239 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	237	0	0	0	0	0	0	0
## 240 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	238	0	0	0	0	0	0	0
## 241 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	239	0	0	0	0	0	0	0
## 242 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	240	0	0	0	0	0	0	0
## 243 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	241	0	0	0	0	0	0	0
## 244 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	242	0	0	0	0	0	0	0
## 245 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0	0	0	0	0	0	0
## 246 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	244	0	0	0	0	0	0	0
## 247 0 0 0 0 0 0 0	##	245	0	0	0	1	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	##	248	0	0	0	0	0	0	0
## 248	##	248	0	0	0	0	0	0	

##	249	0	1	0	0	0	0	0
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	291	0	0	0	0	0	0	0
	292	0	0	0	1	0	0	0
	293	1	1	0	0	1	0	0
	294	0	0	0	0	1	0	0
	295	0	0	0	0	0	1	0
	295 296							
		0	0	0	0	0	0	0
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	300	0	0	0	0	0	0	0
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##	302	0	0	1	0	0	1	0

## 303	0	0	1	0	0	0	0
## 304	0	0	0	1	0	0	0
## 305	0	0	0	0	0	0	0
## 306	0	0	0	0	0	0	0
## 307	0	0	0	1	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
## 317	0	0	0	0	0	0	0
## 319	0	0	0	0	0	0	0
## 319 ## 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	0	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	1	0	0
## 333	0	0	0	0	0	0	0
## 334	0	0	0	0	0	0	0
## 335	0	1	0	1	0	0	0
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## 337	0	0	0	0	0	0	0
## 338	0	0	0	0	0	0	0
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## 352	0	1	0	0	0	0	0
## 353	0	0	0	0	0	0	0
## 354	1	0	0	0	0	0	0
## 355	0	0	0	0	0	0	0
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##			mu_CHD6 mu_						mu_GRIN2A
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		0			0	0	0		
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		0							
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##	110	J	J	•	J	•	J	J	J

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	189 190	0	0	0	0	0	0	0	0
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	208	0	0	0	0	0	0	0	0
	209	0	0	0	0	0	0	0	0
	210 211	0	0	0	0	0	0	0	0
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	214	0	0	0	0	0	0	0	0
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	223	0	0	0	0	0	0	0	0
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	•	•	•	•	•			•
## 225	0	0	0	0	0	0	0	0
## 226	1	0	0	0	0	0	0	0
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## 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	0	0	0	0
## 242	0	0	0	0	0	0	0	0
## 242 ## 243	0	0	0	0	0	0	0	0
## 244 ## 244	0	0	0	0	0	0	0	0
## 245								
	0	0	1	0	0	0	0	0
## 246	0	0	0	0	0	0	0	0
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## 248	0	0	0	0	0	0	0	0
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210	J	J	V	J	J	V	J	•

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	327	0	1	0	0	0	0	0	0
	328	0	0	0	0	0	0	0	0
	329	0	0	0	0	0	0	0	0
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	331	0	0	0	0	0	1		0
	332	1	0	0	0	0	1		0

ии -	222	^	^	0	0	0	^	0	^
## 3		0	0	0	0	0	0		0
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## 3		0	0	0	0	0	0		0
## 3		0	0	0	0	0	0	0 (0
## 3		0	0	0	0	0	0	0 (0
## 3	338	0	0	0	0	0	0	0	0
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## 3		0	0	1	0	0	0		0
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## 3		0	0	0	0	0	0		0
## 3		0	1	0	0	0	0		0
## 3									
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## 3		0	0	0	0	0	0		0
## 3		0	0	1	0	0	0		0
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## 3		0	0	0	0	0	0		0
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## 3		0	0	0	1	0	0	0	0
## 3	369	0	1	1	0	0	1	0	0
## 3	370	0	0	0	0	0	0	0	1
## 3	371	0	0	0	0	0	0	0	0
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## 3	373	0	0	0	0	0	0	0	1
## 3	374	0	0	0	0	0	0	0	0
## 3	375	0	0	0	0	0	0	0	0
## 3	376	0	0	0	0	0	0	0	0
## 3		0	0	0	0	0	0	0	0
## 3		0	0	0	0	0	0		0
## 3		0	0	0	0	0	0		0
## 3		0	0	0	0	0	0		0
## 3		0	0	0	0	0	1		0
## 3		0	0	0	0	0	0		0
## 3		0	0	0	0	0	0		0
## 3		0	0	0	0	0	0		0
## 3		0	1	0	0	0	0		0
## 3		0	0	0	0	0	0		0
## 3	500	U	U	U	U	U	U	0	J

	387	0	0	0	0	0	0	0	0
	388	0	0	0	0	0	0	0	0
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##	390	0	0	0	0	0	0	0	0
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##	392	0	0	0	0	0	0	0	0
##	393	0	0	0	0	0	0	0	0
##	394	0	0	0	0	1	1	0	0
##	395	0	0	0	0	0	0	0	0
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##			mu_KIAA1109						
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##	30	0	U	0	0	0	0	U	0

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##									
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	187	0	1	0	0	0	0	0	0
	188 189	0	0	0	0	0	0	0	0
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	199	0	1	0	0	0	0	0	0
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## 001	0	0	0	^	0	^	^	0
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## 224	0	0	0	0	0	0	0	0
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## 228	0	0	0	0	0	0	1	0
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## 250 ## 251	0	0	0	0	0	1	0	0
## 251 ## 252	0	0	0	0	0	0	0	0
## 252 ## 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	Λ
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	261		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
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	267								0
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	270	0	0	0	0	0	0	0	0
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		0	0	0	0	0	0	0	0
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	305	0	0	0	0	0	0	0	0
	306	0	0	0	0	0	0	0	0
	307	0	1	1	0	0	0	0	0
	308	0	0	0	0	0	0	0	0
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## 3								0 (
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## 3							0	0 (
## 3:				0			0	0 0)
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## 3:		0 ()	0			0	0 0)
## 3:		0 ()	0			0	0 0)
## 3:	24	0 ()	0			0	0 ()
## 3	25	0 (0	0	0	0	0	0 ()
## 3	26	0 ()	0	0	0	0	0 0)
## 3	27	0 ()	0	0	0	0	0 0)
## 3	28	0 ()	0	0	0	1	0 0)
## 3:	29	0 (0	0	0	0	0	0 0)
## 3	30	0 ()	1	0	0	0	0 0)
## 3	31	0 (C	0	0	0	0	0 0)
## 3	32	0 (C	0	0	0	0	0 1	L
## 3	33	0 ()	0	0	0	0	0 0)
## 3	34	0 ()	0	0	0	0	0 0)
## 3	35	0 ()	0	0	0	0	0 0)
## 3	36	0 ()	0	0	0	0	0 0)
## 3	37	0 ()	0	0	0	1	0 0)
## 3	38	0 (0	0	0	0	0	0 0)
## 3	39	0 (0	0	0	0	0	0 0)
## 34	40	0 (0	0	0	0	0	0 0)
## 34	41	0 (0	0	0	0	0	0 0)
## 34	42	0 (0	0	0	0	0	0 0)
## 34	43	0 (C	0	0	0	0	0 0)
## 34	44	0 (0	0	0		0	0 0)
## 34	45	0 (0	0	0	0	0	0 0)
## 34	46	0 (0	0	0	0	0	0 0)
## 34								0 0)
## 34								0 0	
## 34								0 0	
## 3								0 0	
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## 3						0	1	0 (
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## 31	02	0	J	Τ.	U	U	U	0	,

	363		0	0	0	0	0	1	0	1
##	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	0	0	0	0
##	369		0	1	1	0	0	0	0	1
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##		_	_	_		_	_	mu_VPS13B	_	
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## 23 ## 24	0	0	0	0	0	0	0	0
## 2 4 ## 25								
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## 68	0	0	0	0	0	0	0	0
π π 00	•	U	J	U	J	V	U	U

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	368	0	0	0	0	0	0	0 0
	369	0	0	0	0	0	0	0 0
	370	0	0	0	0	1	0	0 0
	371	0	1	1	0	0	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
##		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	0 0
##	381	0	0	0	0	0	0	0 0
	382	0	0	0	0	0	0	0 1
	383	0	0	0	0	0	0	0 0
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	386	0	0	0	0	0	0	0 0
	387	0	0	0	0	0	0	0 1
	388	0	0	0	0	0	0	0 0
	389	0	0	0	0	0	0	0 0
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##	392	0	0	0	0	0	0	0 0

##	393	0	0	0	0	0	0	0	0
	394	0	1	0	0	0	1	0	0
##	395	0	0	0	0	0	0	0	0
##	396	1	0	0	0	0	0	0	0
	397	0	0	0	0	1	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 DNAU10	0 CVNEO	0 MADOK 4	0 TNVD	0	0	0 IIMCN1	0 AT MC1
## ##	1	mu_DNAH10 O	mu_SINE2	Mu_MAP2K4 0	mu_1NXB	mu_ASHIL	mu_ASXL2	mu_HMCN1	mu_ALMS1
##	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	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
	9	0	0	0	0	0		0	0
	10	0	0	0	0	0		0	0
	11 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	0
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	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	0	0	0	0	0		0	0
	23 24	0	0	0	0	0		0	0
	2 4 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	0
##	29	0	0	0	0	0	0	0	0
##		0	0	0	0	0		0	0
##		0	0	0	0	0		0	0
##		0	0	0	0	0		0	0
##		0	0	0	0	0		0	0
## ##		0	0	0	0	0		0	0
##		0	0	0	0	0		0	0
##		0	0	0	0	0		0	0
##		0	0	0	0	0		0	0
##		0	0	0	0	0		0	0
##		0	0	0	0	0		0	0
##		0	0	0	0	0		0	0
##		0	0	0	0	0		0	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	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	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	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	0	0	0	0	0	0	0
## 61	0	0	0	0	0	0	0	0
## 62	0	1	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	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	1	0	0	0	1	1	0	0
## 70	0	0	0	0	0	0	0	0
## 71	0	0	0	0	0	0	1	0
## 72	0	0	0	0	0	0	0	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				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	0	1	0	0	0	0	0	0
## 80	0	0	0	0	0	0	0	0
## 81	0	0	0	0	0	1	1	0
## 82	0	0	0	0	0	0	0	0
## 83	0	0	0	0	0	0	0	0
## 84	0	0	1	0	0	0	0	1
## 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	1	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	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	0	0	0	0	0	0	0	0
## 96	0	0	0	0	0	0	0	0
## 96		0						
	0		0	0	0	0	0	0
## 98	0	0	0	0	0	0	0	0

##	00	^	0	^	^	^	0	^	^
		0	0	0	0	0	0	0	0
	100	0	0	1	0	0	0	0	0
	101	0	0	0	0	0	0	0	0
	102	0	0	0	0	0	0	0	0
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	104	0	0	0	0	0	0	0	0
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##	107	0	0	0	0	0	0	0	0
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##	109	0	0	0	0	0	0	0	0
##	110	0	0	0	0	0	0	0	0
##	111	0	0	0	1	0	0	1	0
##	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
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	116	0	0	0	0	0	0	0	0
	117	0	0	0	0	0	0	0	0
	118	0	1	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	1	0	0	0	0	0	0
	122	0	0	0	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	1	0
	126	0	0	0	0	0	0	0	0
	127	0	1	0	0	0	0	0	0
	128	0	1	0	0	0	0	0	0
	129	0	0	0	0	0	0	1	0
	130	0	0	0	0	0	1	0	0
	131	0	1	0	1	0	0	0	0
	132	0	0	0	0	0	0	0	0
	133	0	1	0	0	0	0	0	0
	134	1	0	0	0	0	0	0	0
	135	0	0	1			0	0	
					0	0			0
	136	0	0	0	0	0	0	0	0
	137	0	0	0	0	0	0	0	0
	138	0	0	0	1	0	0	0	0
	139	0	0	0	0	0	0	0	1
	140	1	1	0	0	1	0	1	0
	141	0	0	0	0	0	0	0	0
	142	0	0	0	0	0	0	0	0
	143	0	0	0	0	0	0	0	0
	144	0	0	0	0	0	0	0	0
	145	0	0	0	0	0	0	0	1
	146	0	0	0	0	0	0	0	0
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	149	0	0	0	0	0	0	0	0
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	157	0	0	0	0	0	0	0	0
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##	162	0	0	0	0	0	0	1	0
	163	0	0	0	0	0	0	0	0
	164	0	1	0	0	0	0	0	0
	165	0	0		0	0	0	0	0
				0					
	166	0	0	0	0	1	0	0	0
	167	0	0	0	0	0	0	0	0
##	168	0	0	0	0	0	0	0	0
##	169	0	0	0	0	0	0	0	0
##	170	0	0	0	0	0	0	0	0
##	171	0	1	0	0	0	0	0	0
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	173	0	0	0	0	0	0	0	0
	174	0	0	0	0	0	0	0	0
	175	0	0	0	0	0	0	0	0
	176	0	0	1	0	0	0	0	0
##	177	0	0	0	0	0	0	0	0
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##	179	0	0	0	0	0	0	0	0
##	180	0	1	0	0	0	0	0	0
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	182	1	0	0	1	0	0	0	0
	183	0	0	0	0	0	0	0	0
	184								0
		0	0	0	0	0	0	0	
	185	0	0	0	0	0	0	0	0
	186	0	0	0	0	0	0	0	0
	187	0	0	0	0	0	0	0	0
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##	191	0	0	0	0	0	0	0	0
	192	0	0	0	0	0	0	0	0
	193	1	0	0	0	0	0	0	0
	194	0	0		0				0
				0		0	0	0	
	195	0	0	0	0	0	0	0	0
	196	0	0	0	0	1	0	0	0
	197	1	1	0	0	0	0	0	0
	198	0	0	0	0	0	0	0	1
##	199	0	0	0	0	0	0	0	0
##	200	0	0	0	0	0	0	0	0
	201	0	0	0	0	0	0	0	0
	202	0	0	0	0	0	1	0	0
11.11	203	0	0	0	0	0	0	0	0
##		U	U						
		^	1	\cap	Λ	/ \	\cap	/ \	<i>(</i>)
##	204	0	1	0	0	0	0	0	0
## ##		0 0 0	1 0 0	0 0 0	0 0 0	0	0 0 0	0 0	0

##	207	0	0	0	0	0	0	0 0
##	208	0	0	0	0	0	0	0 0
	209	0	0	1	0	0	0	0 0
	210	0	0	1	0	0	0	0 0
	211							
		0	0	0	0	0	0	
	212	0	0	0	0	0	0	0 0
	213	0	1	0	0	0	0	0 0
	214	0	0	0	0	0	0	0 0
##	215	0	0	0	0	0	0	0 0
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##	217	0	0	0	0	0	0	0 0
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	219	0	0	0	0	0	0	0 0
	220	0	0	0	0	0	0	0 0
	221	0	0	0	0	0	0	0 0
	222	0	0	0	0	0	0	0 0
	223	0	0	0	0	0	0	0 0
	224	0	0	0	0	0	0	0 0
##	225	0	0	0	0	0	0	0 0
##	226	0	0	0	0	0	0	0 0
##	227	0	1	0	0	0	0	0 0
##	228	0	0	0	0	0	0	0 0
##	229	0	0	0	0	0	0	0 0
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	231	0	1	0	0	0	0	0 0
	232	0	0	1	0	0	0	0 0
	233	0	0	0	0	0	0	0 0
	234				1			
		0	0	0		0	0	
	235	0	0	0	0	0	0	0 0
	236	0	0	1	0	0	0	0 0
	237	0	1	1	0	0	0	0 0
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##	239	0	0	0	0	0	0	0 0
##	240	0	0	0	0	0	0	0 0
##	241	0	0	0	0	0	0	0 0
##	242	0	0	0	0	0	0	0 0
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	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
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##	257	1	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	^
	262	0	0	0	0	0	0	0	0
	263	0	0	0	0	0	0	0	0
	264								
		0	0	0	0	0	0	1	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
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	271	0	0	0	0	0	0	1	0
	272	0	0	0	0	0	0	0	0
	273	0	0	1	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	0	0	0	0
	278	0	0	0	0	0	0	0	0
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##	280	0	0	0	0	0	1	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	1	0	0	0	0	0	0	0
##	285	0	0	0	0	0	0	0	0
##	286	0	0	1	0	0	0	0	0
##	287	0	0	1	0	0	0	0	0
##	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	0	0	0	0	0
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##	293	0	1	0	0	0	0	0	0
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##	301	0	0	0	0	0	0	0	0
##	302	1	0	0	0	1	1	1	0
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##	304	0	0	0	0	0	0	0	0
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	307	0	0	0	0	0	0	0	0
	308	0	0	0	0	0	0	1	0
	309	0	0	0	0	0	0	0	0
	310	0	0	0	0	0	0	0	0
	311	0	0	0	1	0	0	0	0
	312	0	0	0	1	0	0	0	0
	313	0	0	0	0	0	0	0	0
	314	0	0	0	0	0	0	0	0

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	318	0	0	1	0	0	0	0 0
	319			0				
		0	0		0	0	0	
	320	0	0	0	1	0	0	0 0
	321	0	0	0	0	0	0	0 0
##	322	0	0	0	0	0	0	0 0
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##	324	0	0	0	0	0	0	0 0
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	327	0	0	0	0	0	0	1 0
	328	0	0	0	0	0	0	0 0
	329							0 0
		0	0	0	0	0	0	
	330	0	1	0	0	0	0	0 0
	331	0	0	0	0	0	0	0 0
##	332	0	0	0	0	1	0	0 0
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##	334	0	0	0	0	0	0	0 0
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	338	0	0	0	0	0	0	0 0
	339	0	0	0	0	0	0	1 0
	340	0	0	0	0	0	0	0 0
	341	0	0	0	0	0	0	0 0
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	343	0	0	0	0	0	0	0 0
	344	0	0	0	0	0	0	0 0
	345	0	0	0	0	0	0	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
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##	350	0	0	1	0	0	0	0 0
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	353	0	0	0	0	0	0	0 0
	354	0	1	0	1	0	1	0 0
	355	0	0	0	0	0	0	0 1
	356	0	0	0	0	0	0	0 0
	357	0	1	0	0	0	0	0 0
	358	0	0	0	0	0	0	0 0
	359							
		0	0	0	1	0	0	0 0
	360	0	0	0	0	1	0	0 0
	361	0	0	0	0	1	0	0 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	0	0	0 0

##	369	1	1		0	0	0	0	1	0
##	370	0	0		0	0	0	0	0	0
##	371	0	1		0	0	1	0	0	1
##	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
	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	0	0
##	381	0	0		0	0	1	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	0
	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	0	1		0	1	0	0	1	0
##	395	1	0		0	0	0	0	1	0
	396	0	0		0	0	0	0	0	0
	397	0	0		0	0	0	0	0	0
	398	0	0		0	0	0	0	0	1
	399	0	0		0	0	0	0	0	0
	400	0	0		0	0	0	0	0	0
		0	0		0	0	0	0	0	0
	401									
##		mu_ITPR2 mu							mu_C90F1	
##	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
##		0	0	0	0	0	0	0		0
##		0	0	0	0	0	0	0		0
##		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
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	15	0	0	0	0	0	0	0		0
	16	0	0	0	0	0	0	0		0
		0	0	0	0	0	0			
	17							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
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##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##			0					0	0
		0		0	0	0	0		
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
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##	57	0	0	0	0	0	0	0	0
##	58	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
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	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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
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##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
	71 72		0	0	0	0	0	0	0
		1							
##		0	0	0	0	0	0	0	0
##	74	0	0	0	0	0	0	0	0

44 7E	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	0	0	0	0	0	0	0	0
## 80	0	0	0	0	0	0	0	0
## 81	0	0	0	0	0	0	1	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	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	0	0	0	0	0	0	0	0
## 96	0	0	1	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	0	0	0
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## 101	0	0	0	0	0	0	0	0
## 102	0	0	0	0	0	0	0	0
## 103	0	0	0	0	0	1	0	0
## 104	0	1	0	1	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	0	0	0	0	0	0	0	0
## 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	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
## 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
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## 123	0	0	0	0	0	0	0	0
## 124	0	0	0	0	1	0	0	0
## 125	0	0	0	0	0	0	0	0
## 125 ## 126	0	0	0	0	0	0	0	0
## 120 ## 127	0	0	0	0	0	0	0	0
## 127 ## 128			0					0
## 120	0	1	U	0	0	0	0	U

##	129	0	0	0	0	0	0	0	0
	130	0	0	0	0	0	0	0	0
	131	1	0	0	0	1	0	0	1
	132	0	1	0	0	0	0	0	0
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##	136	0	0	0	0	0	0	0	0
##	137	0	0	0	0	0	0	0	0
##	138	0	0	0	0	0	0	0	0
##	139	1	0	0	0	0	0	0	0
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##	141	0	0	0	1	0	0	0	0
##	142	0	0	0	0	0	0	0	0
	143	0	0	0	0	0	0	0	0
	144	0	0	0	0	0	0	0	0
	145	0	0	0	0	0	0	0	0
	146	0	0	0	0	0	0	0	0
	147	0	0	0	0	0	0	0	0
	148	0	0	0	0	0	0	0	0
	149	0	0	0	0	0	0	0	0
	150	0	0	0	0	0	0	0	0
	151 152	0	1	0	0	0	0	0	0
	153	0	0	0	0	0	0	0	0
	154	0	0	0	0	1	0	0	0
	155	0	0	0	0	0	0	0	0
	156	0	0	0	0	0	0	0	0
	157	0	0	0	0	0	0	0	0
	158	0	0	0	0	0	0	0	0
	159	0	0	0	0	0	0	0	0
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	165	0	0	0	0	0	0	0	0
	166	0	0	0	0	0	0	0	0
	167	0	0	0	0	0	0	0	0
	168	0	0	0	0	0	0	0	0
	169	0	0	0	0	0	0	0	0
	170	0	0	0	0	0	0	0	0
	171	0	0	0	0	0	0	0	0
	172 173	0	0	0	0	0	0	0	0
	174	0	0	0	0	0	0	0	0
	175	0	0	0	0	0	0	0	0
	176	0	0	0	0	0	0	0	0
	177	0	0	0	0	0	0	0	0
	178	0	0	0	0	0	0	0	0
	179	0	0	0	0	0	0	0	0
	180	0	0	0	0	0	0	0	0
	181	0	0	0	0	0	0	0	0
	182	0	1	0	1	0	0	0	1

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	184	0	0	0	0	1	0	0	0
	185	0	0	0	0	0	0	0	0
	186	0	0	0	0	0	0	0	0
	187	0	0	0	0	0	0	0	1
	188	0	0	0	0		0	0	0
						0			
	189	0	0	0	0	0	0	0	0
	190	0	0	0	0	0	0	0	0
	191	0	0	0	0	0	0	0	0
	192	0	0	0	0	0	0	0	0
	193	0	0	0	0	0	0	0	0
	194	0	0	0	0	0	0	0	0
	195	0	1	0	0	0	0	0	0
	196	0	0	0	0	0	1	0	0
	197	0	0	0	0	0	0	0	0
	198	0	0	0	0	0	0	0	0
	199	0	0	0	0	0	0	0	0
	200	0	0	0	0	0	0	0	0
	201	0	0	0	0	0	0	0	0
	202	1	0	0	1	0	0	0	0
##	203	0	0	0	0	0	0	0	0
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##	205	0	0	0	0	0	0	0	0
##	206	0	0	0	0	0	0	0	0
##	207	0	0	0	0	0	0	0	0
##	208	0	0	0	0	0	0	1	0
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##	214	0	0	0	0	0	0	0	0
##	215	0	0	0	0	0	0	0	0
##	216	0	0	0	0	0	0	0	0
##	217	0	0	0	0	0	0	0	0
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	220	0	0	0	0	0	0	0	0
	221	0	0	0	0	0	0	0	0
	222	0	0	0	0	0	0	0	0
	223	0	0	0	0	0	0	0	0
	224	0	0	0	0	0	0	0	0
	225	0	0	0	0	0	0	0	0
	226	0	0	0	0	0	0	0	0
	227	0	0	0	0	0	0	0	0
	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	0	0	0	0	0
	233	0	0	0	0	0	0	1	0
	234	0	0	0	0	1	0	0	0
	235	0	0	0	0	0	0	0	0
	236	0	0	0	0	0	0	0	0
##	200	J	U	J	J	J	V	V	U

## 007	^	0	0	0	0	0	0	^
## 237 ## 238	0	0 0	0	0	0	0	0	0
## 239	0	0	0	0	0	0	0	0
## 239 ## 240		0	0		0		0	
	0			0		0		0
## 241	0	0	0	0	0	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	1	0	0	0	0
## 262	0	0	0	0	0	0	0	0
## 263	0	0	0	0	0	0	0	0
## 264	0	0	0	0	0	0	0	0
## 265	0	0	0	0	0	0	0	0
## 266	0	0	0	0	0	0	0	0
## 267	0	0	0	0	0	0	0	0
## 268	0	0	0	0	0	0	0	0
## 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
## 272	0	0	0	0	0	0	0	0
## 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	0	0	0	0
## 278	0	0	0	0	0	0	0	0
## 279	0	0	0	0	0	0	0	0
## 280	0	0	0	0	0	0	0	0
## 281	0	1	1	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						
## 287		0	0	0	0	0	0	0
## 287 ## 288	0	0	0	0	0	0	0	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

ππ ОС	01 0	0	0	0	0	0	0	0
## 29		0	0	0	0	0	0	0
## 29		0	0	0	0	1	0	0
## 29		0	0	0	0	0	0	0
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## 29		0	0	0	0	0	0	0
## 29		0	0	0	0	0	0	0
## 29		0	0	0	0	0	0	0
## 29		0	0	0	0	0	0	0
## 29	99 0	0	0	0	0	0	0	0
## 30	00 0	0	0	0	0	0	0	0
## 30	01 0	0	0	0	0	0	0	0
## 30	02 1	0	0	0	1	0	0	0
## 30	03 0	0	0	0	0	0	0	0
## 30	04 0	0	0	0	0	0	0	0
## 30	05 0	0	0	0	0	0	0	0
## 30	06 0	0	0	0	0	0	0	0
## 30	07 0	0	0	0	1	0	1	0
## 30	08 0	0	0	0	0	0	0	0
## 30		0	0	0	0	0	0	0
## 31		0	0	0	0	0	0	0
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## 31		0	0	0	0	0	0	0
## 31		0	0	0	0	0	0	0
## 31		0	0	0	0	0	0	0
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## 31		0	0	0	0	0	0	0
## 32		0	0	0	1	0	0	0
## 32		0	0	0	0	0	0	0
## 32		0	0	0	0	0	0	0
## 32		0	0	0	0	0	0	0
## 32		0	0	0	0	0	0	0
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## 32		0	0	0	0	0	0	0
## 32		0	0	0	0	0	0	0
## 32		0	0	0	0	0	0	0
## 32		0	0	0	0	0	0	0
## 33		0	0	0	0	0	0	0
## 33		0	0	0	0	0	0	0
## 33		0	0	0	1	0	0	0
## 33		0	0	0	0	0	0	0
## 33		0	0	0	0	0	0	0
## 33		0			0	0	0	
## 33			0	0				0
## 33		0	0	0	0	0	0	0
## 33		1	0	0	0	1	0	0
		0	0	0	0	0	0	0
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## 34		0	0	0	0	0	0	0
## 34		0	0	0	0	0	0	0
## 34		0	0	0	0	0	0	0
## 34		0	0	0	0	0	0	1
## 34	44 0	0	0	0	0	0	0	0

## O1E	0	^	^	0	0	0	0	0
## 345	0	0	0	0	0	0	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
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## 356	0	0	0	0	0	0	0	0
## 357	0	0	Ö	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	0
## 361	0	0	0	0	0	0	0	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	0	0	0	0
## 369	1	0	0	1	0	0	0	1
## 370	0	0	0	0	0	0	0	0
## 371	0	0	0	0	0	0	1	1
## 372	0	0	0	0	0	0	0	0
## 373	0	0	1	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
## 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	0	0
## 381	0	0	0	0	0	0	0	0
## 382	0	0	0	0	0	1	0	0
## 383	0	0	0	0	0	0	0	0
## 384	0	0	0	0	0	0	0	0
## 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	1	0	0	0	0	0	0
## 389	0	0	1	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	Ö	0	0	0	0	0
## 393	0	0	0	0	0	0	0	0
## 393 ## 394	1	0	1	1	0	0	0	0
## 395 ## 306	0	0	0	0	0	0	0	0
## 396	0	0	1	0	0	0	0	0
## 397	0	0	0	0	0	0	0	0
## 398	1	0	0	0	0	0	0	0

	399 400			0 0	0 0	0	0	0	0
	401			0 0	0	0	0	0	0
##		mu_F5	mu_FRMPD4	mu_LRP1B	${\tt mu_DCHS2}$	mu_HERC1	mu_CSMD3	mu_USP34	mu_BAZ2B
##	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 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	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	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 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
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
## ##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##	47	0	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0	0
##		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	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	0	0
## 67	0	0	0	0	0	0	0	0
## 68	0	0	0	0	0	0	0	0
## 69 ## 70	0	0	0	0	0	0	0	0
## 70	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	1	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	1	1	0
## 79	0	0	0	0	0	0	0	1
## 80	0	0	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	1	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 ## 89	0	0	0	0	0	1	1	0
## 90	0	1	0	0	0	0	0	0 0
## 91	0	0	0	0	0	0	0	0
## 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	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	0	0	0	0	0	0	0	0
## 100		0	0	0	0	0	0	0
## 103		0	0	0	0	1	0	0
## 102		0	0	0	0	0	0	0
## 103		0	0	0	0	0	0	0
## 104	1 0	0	0	0	0	0	0	0

## 106	##	105	0	0	0	0	1	0	0	0
## 108 0 0 0 0 0 0 0 0 0 0 0 0										
## 109 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	107	0	0	0	0	1	0	0	0
## 110	##	108	0	0	0	0	0	0	0	0
## 111	##	109	0	0	0	0	0	0	0	0
## 112 0 0 0 0 0 0 0 0 0 0 0 0 0	##	110	0	0	0	0	0	0	0	0
## 113	##	111	0	0	0	0	0	0	0	0
## 114	##	112	0	0	0	0	0	0	0	0
## 115	##	113		0		0	0		0	0
## 116 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0		0			0	
## 117 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 118 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 119 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 120 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 121 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 121 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 122 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 123										
## 124 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 125										
## 126 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 127 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 128 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 128 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 129 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 129 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ## 130 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 130 0 0 0 0 0 0 1 0 0 0 0 0 ## 131 0 0 0 0 ## 131 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 131 0 1 1 1 1 1 1 0 0 0 ## 132 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 132 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 134 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##	132	0	0	0	0	0	0	0	0
## 135	##	133	0	0	0	0	0	0	0	0
## 136 0 0 0 0 0 0 0 0 0 0 0 0 0	##	134	0	0	0	0	0	0	0	0
## 137	##	135	0	0	0	0	0	0	0	0
## 138	##	136	0	0		0	0	0	0	0
## 139	##	137	0	0		0	0	0	0	0
## 140 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0				0		0	0		0	
## 141 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 143 0 <th></th>										
## 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 145 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 146 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 147 0 <th></th>										
## 148 0 0 0 0 0 0 1 0 ## 149 0 0 0 0 0 0 0 0 0 ## 150 0 1 0 0 0 0 0 0 0 ## 151 0 0 0 0 0 0 0 0 0 ## 152 0										
## 149 0 0 0 0 0 0 0 0 ## 150 0 1 0 0 0 0 0 0 0 ## 151 0 0 0 0 0 0 0 0 0 ## 152 0 0 0 0 0 0 0 0 0 ## 153 0										
## 150 0 1 0 0 0 0 0 0 ## 151 0 0 0 0 0 0 0 0 ## 152 0 0 0 0 0 0 0 0 ## 153 0 0 0 0 0 0 0 0 ## 154 0 0 0 0 0 0 0 0 ## 155 0 0 0 0 0 0 0 0 ## 156 0 0 0 0 0 0 0 0 ## 157 0 0 0 0 0 0 0 0										
## 151 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 152 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 153 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 154 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 155 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
## 156 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0		0				
				0						
## 158 0 0 0 0 0 0 0 0	##	157	0	0	0	0	0	0	0	0
	##	158	0	0	0	0	0	0	0	0

		_				_			
	159	0	0	0	0	0	0	0	0
	160	0	0	0	0	0	0	0	0
##	161	0	0	0	0	0	0	0	0
##	162	0	0	0	0	0	0	0	0
##	163	0	0	0	0	0	0	0	0
##	164	0	0	0	0	0	1	0	0
##	165	0	0	0	0	0	0	0	0
	166	0	0	0	0	0	0	0	0
	167	0	0	0	0	0	0	0	0
	168	0	0	0	0	0	0	0	0
	169				0				
		0	0	1		0	0	0	0
	170	0	0	0	0	0	0	0	0
	171	0	0	0	0	0	0	0	0
	172	0	0	0	0	0	1	0	0
	173	0	0	0	0	0	0	0	0
##	174	0	0	0	0	0	0	0	0
##	175	0	0	0	0	0	0	0	0
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##	177	0	0	0	0	0	0	0	0
##	178	0	0	0	0	0	0	0	0
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##	180	0	0	0	0	0	0	0	0
##	181	0	0	0	0	0	0	0	0
	182	1	0	0	0	1	1	0	0
	183	0	0	0	0	0	0	0	0
	184	0	0	0	0	0	0	0	0
	185	0			0		0	0	0
			0	0		0			
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	187	0	0	0	0	0	0	0	1
	188	0	0	0	0	0	0	0	0
##	189	0	0	0	0	0	0	0	0
##	190	0	0	0	0	0	0	0	0
##	191	0	0	0	0	0	0	0	0
##	192	0	0	0	0	0	0	0	0
##	193	0	0	0	0	0	0	0	0
##	194	0	0	0	0	0	0	0	0
##	195	0	0	1	0	0	0	0	0
##	196	0	0	0	1	0	0	0	0
	197	0	0	0	0	0	0	1	1
	198	0	0	0	0	0	0	0	0
	199	0	0	0	0	0	0	0	0
	200	0	0	0	0	0	0	0	0
	201	0	0	0	0	0	0	0	0
	202	0	0	0	0	0	0	0	0
	203	0	0	0	0	0	0	0	0
	204	0	0	0	0	0	0	0	0
	205	0	0	0	0	0	0	0	0
	206	0	0	0	0	0	0	0	0
	207	0	0	0	0	0	0	0	0
	208	0	0	0	0	0	0	0	0
##	209	0	0	0	0	0	0	0	0
##	210	0	0	0	0	0	0	0	0
##	211	0	0	0	1	0	0	0	0
	212	0	0	0	0	0	0	0	0

	040	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	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	1	0	0	0	0	0	1 (
	227	0	0	0	1	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	1	0 ()
	231	1	0	0	0	0	0	1 ()
##	232	0	0	0	0	0	0	0 ()
##	233	0	0	0	0	0	0	0 ()
##	234	0	0	1	0	0	0	0 1	1
##	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	0	0 ()
##	241	0	0	0	0	0	0	0 ()
##	242	0	1	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	1	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	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	1	1	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	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	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	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	0
##	294	0	0	0	0	0	0	0	0
##	295	0	0	0	1	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	0	0	1	1	0	0	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	0	0	0	0	1	0	0
	308	1	0	0	0	0	0	0	0
	309	0	0	0	0	0	0		0
	310	0	0	0	0	0	0		0
	311	1	0	0	1	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	0

## 321	0	0	0	0	0	0	0	0
## 322	0	0	0	0	0	1	0	0
## 323	0	0	0	0	0	0	0	0
## 324	0	0	0	0	0	0	0	0
## 325	0	0	0	0	0	0	0	0
## 326	0	0	0	0	0	0	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	0	0	1	0	0
## 331	0	0	0	0	0	0	0	1
## 332	0	0	0	0	0	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	1	0	0	0	0	0	0	0
## 338 ## 339	0	0 0	0 0	0 0	0 0	0 0	0 0	0
## 339 ## 340	0	0	0	0	0	0	0	0
## 340 ## 341	0	0	0	0	0	0	0	0
## 341	0	0	0	0	0	0	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	0	0	0
## 346	0	0	0	0	0	0	0	0
## 347	0	0	0	0	0	0	0	0
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##	401	0	()	()		()	()	()	
##		mu_FLG2	mu_PCDH19	mu_VPS13A	mu_PAPPA2	mu_PDZD2	mu_BCORL1	mu_APC	mu_PRUNE2
## ##	1	mu_FLG2 0	mu_PCDH19 0	mu_VPS13A 0	mu_PAPPA2 0	mu_PDZD2 0	mu_BCORL1 0	mu_APC O	mu_PRUNE2 0
## ## ##	1 2	mu_FLG2 0 0	mu_PCDH19 0 0	mu_VPS13A 0 0	mu_PAPPA2 0 0	mu_PDZD2 0 0	mu_BCORL1 0 0	mu_APC 0 0	mu_PRUNE2 0 0
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## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10	mu_FLG2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PCDH19 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_VPS13A 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PAPPA2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PDZD2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_BCORL1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_APC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PRUNE2 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12 13	mu_FLG2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PCDH19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_VPS13A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PAPPA2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PDZD2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_BCORL1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_APC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PRUNE2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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# # # # # # # # # # # # # # # # # # #	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	mu_FLG2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PCDH19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_VPS13A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PAPPA2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PDZD2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_BCORL1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_APC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PRUNE2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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######################################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	mu_FLG2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PCDH19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_VPS13A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PAPPA2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PDZD2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_BCORL1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_APC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PRUNE2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
# # # # # # # # # # # # # # # # # # #	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	mu_FLG2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PCDH19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_VPS13A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PAPPA2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PDZD2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_BCORL1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_APC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PRUNE2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
#######################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	mu_FLG2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PCDH19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_VPS13A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PAPPA2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PDZD2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_BCORL1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_APC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PRUNE2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
########################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	mu_FLG2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PCDH19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_VPS13A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PAPPA2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PDZD2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_BCORL1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_APC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mu_PRUNE2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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50	v	v	•	•	•	•	v	9

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	156	0	0	0	0	0	0	0	0
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		•		•		•	•	•	_
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	180	0	0	0	0	0	0	0	0
	181								
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		0			0				0
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	217	0	0	0	0	0	0	0	0
##	218	0	0	0	0	0	0	0	0

	•	•	•		•			
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## 220	0	0	0	0	0	0	0	0
## 221	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
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## 232	0	0	0	0	0	0	0	0
## 233	0	0	0	0	0	0	0	0
## 234	0	0	0	0	0	0	1	0
## 23 4 ## 235	0	0	0	0	0	0	0	0
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## 237	0	0	0	0	0	0	0	0
## 238	0	0	0	0	0	0	0	0
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## 247	0	0	0	0	0	0	0	0
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## 261 ## 262	0	0	0	0	0	0	0	0
## 262 ## 263		0	0			0	0	
	0			0	1			0
## 264 ## 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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## 272	0	1	0	0	1	0	0	0

			_	_					
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##	274	0	0	0	0	0	0	0 0	
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		0							0
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##	380	0	0	0	0	1	0	0	0

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	394	0	0	0	0	0	0	0	0
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	397	0	0	0	0	0	0	0	0
	398	0	1	1	1	0	0	0	0
	399 400	0	0	0	0	0	0	0	0
	400	0	0	0 0	0	0	0	0	0
##	401			nu_PKHD1L1				mu_PEG3	U
##	1	0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	
##		0	0	0	0	0	0	0	
	5	0	0	0	0	0	0	0	
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	14	0	0	0	0	0	0	0	
	15	0	0	0	0	0	0	0	
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	17 18	0	0 0	0	0	0	0	0 0	
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	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	

шш	22	^	0	^	^	^	^	^
## ##	34	0	0	0	0	0	0	0
		0	0	0	0	0	0	0
	35	0	0	0	0	0	0	0
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	39	0	0	0	0	0	0	0
##		0	0	0	0	0	0	0
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##		0	0	0	0	0	0	0
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##	87	0	0	0	0	0	0	0
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	111	0	1	1	0	0	1	0
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	137 138	0	1	0	0	0	0	0
	138		0	0	0	1		0
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##	140	т	U	U	1	1	U	U

##	141	0	0	0	1	0	0	0
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	158 159	0	0	0	0	0	0	0
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	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
	183 184	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

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	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
	202							
		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
##	240	U	J	U	U	0	U	U

##	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

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	303	0	0	0	0	0	0	0
	304	0	0	0	0	0	0	0
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	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
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	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
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## 357
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## 389
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## 390
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## 391
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## 392
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## 393
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## 394
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## 395
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## 396
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## 398
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## 399
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    [ 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_CPB1
                                rs_MUCL1
                                           rs_GSTM1
                                                                 rs_HMGCS2
        rs_CLEC3A
                                                        rs PIP
## 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
        0.000000
                   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
                               0.0000000
                   0.6035967
                                          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
       12.0808128
## 12
                   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
        0.000000
                   0.000000
                               0.0000000 11.3883250
                                                     0.000000
                                                                 0.4976379
##
  23
        0.000000
                   9.2388306
                              5.4072202
                                                     4.4717662
                                          6.9908630
                                                                 1.5278210
        1.6860298
                               6.1240965
                                                     1.9843706
##
  24
                   2.7894997
                                          1.6860298
                                                                 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
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                                                                 4.8570404
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  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
##
        1.6995072
                                          0.9733541
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  40
                   3.6134845
                              1.3816710
                                                                 0.4017397
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                              4.6391337
                                          6.2547244
                                                     4.8504994
## 41
                   3.5216413
                                                                 0.0000000
## 42
        1.5224073
                   2.3561156 11.8335768 11.6493811
                                                     6.2390314
                                                                 4.9698182
        2.1911520
                                                     9.2911744
## 43
                   1.6911768
                              8.5848468
                                          0.0000000
                                                                 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
                   6.4320725
                              6.1428933
                                          1.0663992 7.8571997
## 46
        2.3253864
                                                                 5.9857031
```

```
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##
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##
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##
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##
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## 6
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##
  147 11.2191651
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##
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##
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##
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##
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##
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                    rs_OBP2B
                                rs_KIF1A
                                           rs_CYP4F8
                                                        rs_TNNT1
                                                                     rs_LRP2
##
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  1
## 2
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## 3
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##
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##
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##
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##
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                      rs NXPH1
                                 rs MUC15
                                           rs_CALML3 rs_PPP2R2C rs_CNTNAP2
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##
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##
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##
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##
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##
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##
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                                rs IGSF1
##
          rs SYT9
                     rs DLK1
                                             rs GRPR
                                                       rs FOLR1
                                                                 rs S100P
                                                                            rs CXCL13
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##
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## 4
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## 7
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##
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           rs DCD
                                rs_PYDC1 rs_ANKRD30B
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##
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##
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## 129
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## 131
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##
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##
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##
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                                                       rs_PTPRZ1
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## 136
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##
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                   rs_KRT15 rs_CYP4F22 rs_GLYATL2
                                                      rs_CAPN8 rs_TMPRSS4
                                                                            rs_CASP14
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##
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##
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##
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##
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                                                       9.7814423 3.6495695
##
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##
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##
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##
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##
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##
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## 93
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                                              rs IL20
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##
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##
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##
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                    5.7149186
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                                                          3.736930 11.6779434
##
   67
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                    8.1007449
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                                                          8.942497
                                                                     0.4153260
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##
   68
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##
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                    2.6248495
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##
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## 73
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```

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##
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##
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##
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##
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##
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##
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##
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##
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##
   141
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##
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##
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##
        rs_ELOVL2 rs_SLC26A3 rs_LGALS12
                                                        rs_SYTL5
                                               rs_TRH
                                                                    rs_KNDC1
## 1
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##
  2
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   3
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##
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##
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##
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## 16
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##
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##
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##
         rs SYT1
                    rs GPR98 rs LOC100271831
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```

```
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## 138 11.9960459
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## 142 12.8528236
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##
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## 41
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## 43
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##
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##
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##
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##
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       rs ONECUT2
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                                 rs_RGS22
##
                                             rs_GJB1 rs_C1orf173
                                                                     rs RBM24
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## 1
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##
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##
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##
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## 121
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##
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## 125
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##
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##
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## 139
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##
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##
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##
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  156
##
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##
        rs ATRNL1
                     rs AFP
                                 rs NDP
                                         rs GABRB3
                                                     rs LRG1
                                                                 rs AREG
                                                                          rs GRIK3
## 1
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##
  2
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##
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## 22
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##
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##
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##
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##
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##
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##
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##
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##
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```

```
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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## 119
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##
##
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##
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                                                    rs_CHST9 rs_CYP4F11
            rs_HP
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## 1
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## 3
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##
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## 5
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## 11
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##
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##
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##
         rs MYEOV
                      rs SBSN
                               rs ABCC12
                                            rs NOVA1
                                                        rs SOX11
                                                                    rs FUT6 rs SCRG1
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##
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                             8.8903421 3.3882584
                                                   2.4072984
                                                              6.3410767
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                            9.4267635 0.3576083
##
  38
        5.955222 7.2458531
                                                   0.3576083
                                                              7.0996476
                                                                         0.0000000
## 39
        4.966809 4.7950552 10.7127443 0.5247658
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## 40
        5.702095 0.7157177
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                                                              3.4952091
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## 41
        6.260903 1.2082675 8.3284025 0.0000000 4.1416780 6.2731783
                                                                         0.0000000
```

```
## 42
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##
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##
   44
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                                                   5.3969301
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##
   45
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                                                               8.6981785
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##
   46
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                                                               5.2277834
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##
   47
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##
  48
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                                                               9.0049126
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##
  49
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                                                               7.5703574
                                                                          5.6014380
##
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        6.515802 5.2494453
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                                                                          5.6144448
##
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##
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                                                               6.8250275
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##
   53
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                                                               7.5192006
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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        7.720824 6.8744675
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##
   68
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##
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##
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##
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##
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##
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##
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##
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##
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        2.621665 3.1263121
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##
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##
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                                                               4.3586705
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##
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##
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##
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        4.525937 8.6029430
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##
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##
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##
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## 93
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                                                               4.6856767
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## 94
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                                                   0.7098200
##
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  102
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## 103
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                                                              2.1298105
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##
  104
        6.491035 6.6770092 11.0379024 4.3460137
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  105
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                             6.3589254 4.7220616
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##
  109
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## 110
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## 112
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  115
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        5.421183 6.5460023 10.1336862 2.0436945
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                                                              2.0436945
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## 118
## 119
        8.219298 5.3362120
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## 120
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                                                                         0.0000000
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  122
        4.333180 6.5111248
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## 125
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##
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                                                              5.0832559
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##
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                                                              3.8999297
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## 133
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        7.741227 4.4028177 11.1449757 5.2363855
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  134
                                                              7.6555787
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##
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##
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##
##
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## 149
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##
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                                            rs CRYM rs HOXC10
                                                                  rs DBC1 rs SLC6A11
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##
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##
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## 14
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##
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## 17
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##
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##
  19
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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```
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##
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##
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##
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##
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##
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##
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##
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##
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## 82
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##
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## 84
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## 86
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##
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##
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##
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##
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## 99
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```

```
## 101 10.817288
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## 102 9.979282
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## 151
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```

```
## 155
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##
  156
                                                                           0.0000000
##
        rs ACADL rs CXCL14
                                rs MKX
                                         rs FGF10
                                                       rs NTS
                                                                 rs KCNG1
                                                                           rs PITX1
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##
  1
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  3
##
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##
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## 110
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## 58
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##
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##
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##
   62
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        7.7658046 6.2064361 3.7790075
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##
  63
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##
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##
  66
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##
  67
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##
  68
       10.4659925 6.1620630 0.6978628
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##
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##
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##
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##
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##
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## 81
        6.2870271 4.0112094 3.6678467 6.8041685 8.9464189 3.6678467 6.320353
```

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        5.0611930 1.8697135 5.3417723
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##
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##
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##
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##
  87
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##
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##
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                                                                         7.718833
##
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##
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##
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##
  99
                                                                        6.701122
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##
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## 104
## 105
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## 106 10.1278651 7.0022232 0.3923174
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## 120
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## 123
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## 127
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## 129
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##
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##
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##
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   156
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##
         rs SEZ6L rs TNNI3
                                rs EREG rs ADAMTS15
                                                       rs PAX2
                                                               rs B3GNT3
        3.6999180 3.4400619
## 1
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##
  2
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## 3
        1.6757256 4.7533746
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##
  4
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##
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##
  27
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##
  28
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##
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##
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##
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##
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##
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   50
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##
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##
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##
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##
  54
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## 55
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
  77
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## 78
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##
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##
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##
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##
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##
  83
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## 84
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                                           7.7169875 2.3722556
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## 85
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## 86
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                                                                 0.2980717
```

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## 87
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## 88
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##
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                                                                0.8704239
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##
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##
  91
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## 92
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## 93
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## 94
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##
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##
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##
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##
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##
  99
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                                                                6.4554292
##
  100
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                                                                3.6771135
## 101
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##
  102
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##
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##
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##
  107
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                                          7.4996506 1.4760706
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## 109
## 110
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                                                                6.7915588
## 111
        6.4993197 5.2036045
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                                                                4.9459026
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                                                                5.0293115
##
  113
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                              3.7511209
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##
  114
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                                                                4.2953998
## 115
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                                          5.3511053 1.3961047
## 116
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##
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##
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                              2.3442320
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## 122
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                                          8.8565678 5.7155859
                                                                5.4881968
## 123
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        2.1266425 4.5259811
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## 124
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## 126 10.4979639 0.0000000
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##
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##
  129
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##
        0.8701871 0.0000000
                              0.0000000
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## 131
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                                          8.1516204 6.4252461
                                                                1.0501186
        2.2978370 0.0000000
## 132
                              1.4547023
                                          9.8882235 4.2024020
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                                                                8.8478610
## 133
        2.1806571 6.6985811
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                                          2.4111008 4.0278706
##
  134
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##
  135
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                                          6.1437097 2.6316165
                                                                3.7907825
##
   136
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                                                                2.8900575
##
  137
        4.8929495 6.5459220
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                                                                5.9686576
## 138
        0.0000000 0.0000000
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## 139
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                                          7.3653417 1.1350751
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## 140
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```

```
## 141
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                                           2.6400424 0.0000000
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## 142
        1.6285870 1.0328061
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##
  144
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##
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##
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##
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##
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##
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##
   152
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##
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##
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##
  155
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##
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##
                      rs_CD19 rs_RIMS2
       rs_L0C440905
                                          rs_ALOX15 rs_ADAMTS19
                                                                    rs_NTRK3
         10.1397174 4.4867272 1.6516832
                                           1.1923204
                                                       1.6516832
##
  1
                                                                   6.7789248
          5.8773614 0.7843365 1.0590091
##
  2
                                          0.0000000
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##
   3
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##
  4
          7.1018087 1.1442422 1.1442422
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## 5
          3.0235215 4.5352443 1.1300083
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## 6
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##
   7
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## 8
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##
  9
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## 10
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## 13
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  15
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##
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##
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##
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   18
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## 19
                                          2.4054206
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##
  22
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  23
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##
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##
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##
  26
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##
  27
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##
  28
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##
  29
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##
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##
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##
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##
   33
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##
  34
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## 36
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## 37
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```

```
## 38
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##
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          8.1761407 6.9421168 0.9088129
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                                                                   0.9088129
          4.6670917 7.0126916 5.3398144
##
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##
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##
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##
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##
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##
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##
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##
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##
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## 1		-0.116435332	0.2063566605	-0.216609941 -0.099411460
## 1		-0.177390517	0.0436724675	-0.148750174 0.163996359
## 1		-0.063113589	0.0116494620	0.288678271 0.262219739
## 1		0.050218698	0.0286758530	0.522090676 0.196194895
## 1		0.057868093	0.0252581150	-0.168646089 0.318629632
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## 2		-0.139176652	-0.0734750960	0.238142381 0.375598145
## 2		0.012686576	0.3612923360	0.473127909 0.596906205
## 2		0.078041838	-0.0373806865	0.284039988 1.296887350
## 2		0.052488558	0.0832811660	-0.120331905 0.822612786
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## 2		0.516463017	0.5206709405	-0.350128172 -0.496861704
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## 3			0.0395789845	0.182330562 -0.224902477
		-0.141031684		
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## 77
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## 137 -4.711941e-02
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## 145 -3.932199e-01
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## 146 -2.984499e-01
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## 147
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                                                 3.320153e-01
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##
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##
             pp_ATM pp_Acetyl.a.Tubulin.Lys40
                                                   pp_Akt pp_Akt.pT308
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##
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##
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##
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##
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##
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##
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##
  25
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## 26
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##
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##
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##
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##
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##
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##
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##
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  89
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## 90
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      -0.3004384515 0.089335060 -0.0231675595 0.129268459 0.0271588875
## 91
      -0.1139419555 -0.296414951 0.0403370575 0.331625618 -0.2841581665
```

```
-0.0641518985 -0.177362327 -0.4255652495 0.372019637 -0.0680920475
     -0.1688204347 -1.925381789 -0.3355227658 0.900573312 -0.7977352208
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##
  96
##
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      0.2013521725 -0.169101914 0.2218563345 0.176841329
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##
     -0.3399099270 -0.163534573 -0.2076545040 -0.334956986 -0.0516681870
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## 106 0.0966264782 0.305834696 -0.0339386948 0.242686380 -0.0061819138
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## 109 -0.1670336110 -0.675613085 0.1483094870 0.238544065 -0.1652812800
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## 118 -0.3362827240 -0.325561944 0.3241625050 -0.240450913 0.1186713600
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## 129 -0.5701268315 0.071416840 0.1403472995 -0.140824543 0.3286914845
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## 132 -0.5120276550 -0.999488678 -0.6525461890 0.395651139 -0.2582912240
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      0.2026456410 0.479570548 0.1732139580
## 138
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## 139
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## 144 -0.0520578255 -0.345038886
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## 146 0.3824091990 0.820091710 -0.5211992340 -0.122636859 0.7689499080
```

```
0.0683981195  0.375574721  0.2387443515  -0.406307792  0.4916826615
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      0.2246933960
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##
                    pp_Bcl.2
                                pp_Bcl.xL
                                            pp_Bcl2A1
                                                       pp_Beclin
           pp_Bax
##
  1
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##
  2
      -0.092339836
                  0.39385995 -0.2670807125 0.320442646 -0.145822801
##
  .3
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## 4
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##
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## 8
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## 9
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       ## 11
                  0.87068830 -0.2177261515 0.030917777
## 12
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       0.154576487
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
  40
## 41
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```

```
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##
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##
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      -0.457290483 -0.03979911
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##
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##
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##
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##
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##
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##
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##
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##
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##
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## 67
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##
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##
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##
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##
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##
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##
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##
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##
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##
  83
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##
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##
  85
##
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##
  87
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##
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##
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##
  92
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##
  93
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##
  94
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## 95
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## 96
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```

```
0.361819665 2.93578776 0.0539326370 0.514654280 -0.485866450
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## 101 -0.392908372 -0.26051212 -0.0846074633 -0.188392728 -0.041590064
## 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
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## 118 -0.128071576 -0.27353005 0.1816256525 0.071625307 -0.188583422
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## 121 -0.119428758 -0.33618127 0.0116307768 -0.175426937 -0.015943783
## 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
## 130 -0.297652191 -0.92173145 -0.1991770960 -0.233768034 -0.053779876
## 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
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## 138 -0.163836004 -0.18076767 -0.1592923815 -0.389706463 -0.027093321
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## 141 -0.001247581 -0.97513451 -0.1774417260 -0.050938924 -0.035861377
## 142 -0.138371905 -0.05501218 -0.2525394597 -0.262677002 -0.051672841
## 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
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```
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##
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                                                pp_CD20
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                      pp_C.Raf pp_C.Raf.pS338
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##
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  86
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##
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  89
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## 100 -0.104785703 -0.0084730485
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## 101 0.035982766 -0.0913168873
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## 102 -0.429623216 0.0874650417
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## 103 0.936115663 0.0839863900
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## 104 -0.634797865 -0.2078212365
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## 106
## 107 -0.827596581
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## 109 0.106091827 0.0082847895
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## 110 -0.474150519 -0.0008663495
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## 111 -0.361115423 0.3770507510
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## 112 0.121462516 -0.1324394580
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## 113 0.112411399 -0.2926175100
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## 115 -0.098261224 0.0407310085
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## 116 0.176367422 -0.0571891608
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## 124 -0.152615399 -0.0293921285
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## 125 -0.305996420 0.3109556665
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## 128 -1.170633554 0.2256326050
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## 129 -0.040101002 0.2246706300
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## 130 -0.622243432 0.2691164600
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## 131 -0.169127945 0.2562276410
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## 132 0.067961284 -0.0841483145
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## 133 -0.361795088 -0.0454192860
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## 135 -0.075876272 -0.0030505257
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## 140 -0.068383170 0.0999503123
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## 142 -0.181685884 0.1166959522
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## 143 -0.104110490 0.0233753337
## 144 0.402826321 0.0301734630
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## 145 -0.543587823 -0.1331520325
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## 150 -0.487174117 -0.0396595003
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## 151 -0.310275115 -0.1166267765
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## 152 -0.124340537 -0.0900120095
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      -0.2010816635 -0.266107779 -0.099378715
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      ##
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##
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##
  21
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  24
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##
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##
  27
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##
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##
  29
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  30
       ##
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##
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      ##
  39
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##
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##
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##
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## 3
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## 14
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##
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```
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##
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      ##
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## 116 -0.342940201 -0.4408793743 0.173259108 0.211635543 0.2710092237
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## 121 -0.054616412 -0.1066285787 -0.538665966 1.471822130 0.0843367623
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## 135 -0.181141802 -0.1617990492 -0.117692666
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## 136 -0.023549144 -0.0004484447 0.365118133
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## 137 -0.021580856
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## 146 -0.117943395
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## 147 -0.080219705 -0.0873328870
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##
                         pp_EGFR pp_EGFR.pY1068 pp_EGFR.pY1173
##
      pp E.Cadherin
                                                                   pp ENY2
        0.876640842 -0.085786143
##
  1
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##
  2
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##
  3
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##
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##
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##
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##
  7
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##
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  14
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##
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```

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##
  21
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##
   22
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##
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##
  25
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##
  26
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##
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##
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##
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##
      pp Fibronectin
                           pp_G6PD
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                        pp_HSP70 pp_Heregulin pp_IGF1R.pY1135.Y1136
                                                                       pp_IGFBP2
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##
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## 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
##
         0.116316249 1.94577494 0.112520317
                                                      0.280811118 -0.212360108
  154
                                                     -0.137965474 0.049886827
  155
        -0.072628312 -0.07762471
                                0.049231905
  156
         0.396957228
                    1.93173363
                                0.034156502
                                                      0.370313799 0.584367661
##
##
          pp INPP4B
                      pp IRF.1
                                   pp_IRS1
                                                pp_JAB1
                                                            pp JNK2
## 1
                               0.311026949 -0.127944300
       7.040547e-01 -0.26192974
                                                         0.085391049
## 2
       8.241566e-01 -0.02283736
                               0.247076996 0.019367781
##
  .3
       1.289282e+00 -0.22080521
                               0.630498800 -0.111733339
                                                         0.118496150
##
       5.606222e-01 -0.06811162 0.082628859 -0.171915577
                                                         0.221314795
##
       7.549021e-01 -0.13564827 -0.227727001 0.102018778 -0.108874111
##
  6
      -7.430863e-01 -0.41038129 -0.362712614
                                           0.263104125 0.027153111
      -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
       ##
  11
       2.765969e-01 -0.06128240 -0.293447682 0.066406587 -0.449039089
       ##
  12
##
  13
       2.157443e-01 0.56506022 0.148738214 -0.205048769 -0.526409475
       9.199271e-01 -0.30495470 0.022942957 0.085335142 0.364467040
##
  14
##
  15
       1.341779e+00 -0.30364616 -0.085863581 0.185903181
                                                         0.638478934
##
  16
       3.070108e-01 -0.13708601 0.191904703 -0.126258909
                                                         0.386884697
       1.274662e+00 -0.38842486
                               17
                               0.414855539 -0.067016991
## 18
       2.324407e+00 -0.04192519
                                                        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
      -1.021360e+00 -0.35442695 -0.273811682 -0.007907225 -0.628704977
##
  22
##
  23
      -5.534243e-01 -0.26817923 -0.215304450 0.108835591 -0.143591350
      -1.586408e+00 -0.32086828 -0.164439790 -0.000951774 -0.358047467
##
  24
##
  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
       3.085392e-01 -0.38005638
                               ##
  29
##
  30
       8.568857e-01 -0.04197643
                               0.139515520
                                            0.154034291 -0.110500112
       1.898407e-01 -0.06757927 0.000000000
                                           0.219584139 -0.217950512
##
  31
##
  32
      -3.758263e-01 0.06655355 -0.271346921 -0.311120292 0.250619451
## 33
       1.370780e-01 -0.24409905 -0.023531982 0.045767828 0.397657384
       6.598684e-01 -0.26989644 -0.034703152
                                            0.211317278 -0.111009896
##
  34
      -1.281107e-01 -0.10811644 -0.240000785
                                           0.157698982 -0.095072101
##
  35
      -1.259050e+00 0.20936104 -0.236088904 0.191889626 -0.223960015
  36
       1.183626e+00 0.43204979 -0.026397632 -0.357019064 0.723773218
##
  37
##
  38
      -9.120897e-02 -0.15188322 -0.218484369 0.232622788
                                                         0.322305642
      -4.049629e-02 -0.19632223 -0.149129611 0.192564723
##
  39
                                                       0.313757748
## 40
       4.344786e-01 0.61957769 -0.139182831 -0.087866172 -0.203303780
      -3.659084e-01 -0.12036749 -0.138759900 -0.238940079 -0.455187473
## 41
##
  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
##
      -4.570520e-02 -0.36766995
                               0.178431648 0.257346972
                                                       0.337702098
  45
      -3.425697e-01 -0.36728895
##
                               0.314684145 -0.012687132
                                                         0.273586320
  46
##
  47
      -3.005024e-02 0.21390738 -0.080831705 -0.460942968
                                                        0.694300902
## 48
       2.537523e-01 0.07272702 0.154149466 -0.138928221 0.452096406
       1.367757e-01 0.02553266 0.800611067 0.028134609 -0.443007139
## 49
```

```
1.649271e+00 0.19818749 0.495950053 0.002507588 0.380334733
      -7.261161e-01 -0.26004129 -0.275022824 -0.079571123 -0.021386570
## 51
       -3.518476e-02 0.12528037 -0.201659347 -0.074826719 0.664141217
##
  53
##
  54
       1.200208e+00 -0.31952591 0.258205101 0.047790181 -0.305348057
      -3.063667e-01 0.47278797 -0.252313440 -0.305603693 0.708438505
##
  55
  56
      -3.076341e-01 0.01901415 -0.099125767 -0.127064092 -0.508337225
      -2.906227e-01 -0.18263679 0.286760915 0.438036266 -0.234956946
## 57
##
       1.289573e-01 -0.13922413 -0.040781794 -0.294415850 0.495511624
  58
##
  59
      -8.488360e-01 0.44075461 -0.117370400 -0.118566712 -0.412845562
      -5.496610e-01 -0.50459555 -0.059065509 0.194321088 0.167866351
  60
      -6.131322e-01 -0.27000477 0.578188851 0.349756173 -0.089001282
##
  61
##
       1.308547e+00 -0.10924451 -0.421007417 0.001302869 0.574346362
  62
##
  63
       1.110503e+00 -0.03864710 0.452588687 0.372952732 0.631538330
      -4.036072e-01 0.13644397 0.242419481 0.328946310 -0.512385307
##
  64
  65
      -1.209842e+00 0.02163785 -0.111378082 -0.209417833 -0.397197402
##
       2.183145e+00 0.05267813 0.264234556 -0.142958716 0.705293979
##
  66
      -6.383293e-01 -0.38647673 -0.011611082 -0.021736614 -0.285323967
##
      -2.371037e+00 -0.22649560 0.066338572 0.497782788 -0.577779830
##
  68
##
  69
       7.119921e-01 -0.09988997 -0.273355837 -0.089236169
                                                         0.326390947
##
  70
       1.999968e+00 0.16015523 0.263513477 -0.180499839
                                                        0.039309320
      -3.021121e-01 0.06644655 0.052859874 -0.099381948 0.570349023
##
  71
       9.827258e-01 -0.17341196 -0.074950138 0.061116087 -0.187037960
## 72
##
  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
##
  77
       6.703922e-01 -0.43665301 0.484212136 -0.297177738 0.167191131
      -7.210607e-01 -0.29088349 -0.149216987 -0.451341025 -0.147872368
##
  78
##
       1.105353e-01 -0.05167912 0.299582438 0.103646876 0.611748243
  79
##
  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
       1.078551e+00 -0.01537218 -0.010525520 -0.056970166 -0.376497404
##
  83
       1.429146e+00 0.24941656 0.232895508 -0.141425952 -0.299246386
##
  84
      -2.010334e+00 -0.08270880 -0.083855697 -0.451475058 -0.607794732
##
  85
  86
       3.009173e-01 -0.45755441 -0.063176034 0.522629312 -0.405638208
       1.854703e-01 -0.08612598 0.007481828 0.302776501 0.077522359
## 87
      -2.314138e-01 -0.15984558 -0.060578329 0.097500459 -0.358970061
##
  88
       7.792604e-01 -0.07124093 -0.178755923 0.143519239 0.147052589
##
  89
  90
      -9.843677e-01 0.04598224 0.020219952 -0.225041595 -0.010274628
       3.130852e-01 0.06737050 0.009063601 -0.311968203 -0.211249170
##
  91
##
  92
      -2.283297e-02 -0.08008939 -0.119545822 -0.088676913 -0.004502701
       5.439385e-01 0.00000000 0.234937787 -0.200122938 -0.057516242
##
  93
  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
       1.690728e+00 -0.31536375 -0.168550657 -0.215923679
                                                         0.027716521
## 99
       9.911018e-01 -0.16662797 0.942305904 -0.159328886
                                                         0.914075065
## 100
## 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
       1.376659e+00 0.05771287 1.069373045 -0.251728928 0.225990939
## 106
       1.294531e+00 -0.16693144 0.248797174 0.076517146 0.348787935
## 107
## 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
       4.152983e-02 -0.41559361 0.543365803 -0.024617076 -0.356449860
## 119
## 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
       5.679539e-01 0.06072235 0.033704384 -0.157778125 0.118346135
## 123
## 124 -3.786871e-01 0.07109291 0.117549167 -0.054141878
                                                          0.178020442
      7.433789e-01 -0.15049635 -0.027822999 -0.119973352 0.277333251
## 126 7.138328e-01 -0.15743038 0.075702098 -0.019192536 -0.428436869
       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
       6.256794e-01 -0.14389544 0.196895539 0.064371862 0.266484683
## 136
## 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
       1.613225e-01 -0.36643366 -0.005270273 -0.094181459 0.563575162
## 147
## 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
       1.801344e+00 -0.18406847 0.194892274 0.161570172 0.239405381
## 151
## 152
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       4.548734e-02 -0.20721818 -0.168880167 0.196019119 -0.232319762
## 153
## 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
```

```
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## 1
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## 2
                                                    0.096056980
                                                                 0.122563381
## 3
            -0.226154396 -0.491614997 -0.410859547
                                                     0.007246645
                                                                  0.489625201
             0.279224790 -0.240451187 -0.095967300
                                                     0.059274377 -0.259001654
## 4
## 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
                                                    0.235286265 -0.132656214
## 14
             0.419698361 -0.598083805 -0.872252266
## 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
            -0.269718656 -0.171434881 -0.153740789
                                                     0.086107985 -0.594153785
##
  18
## 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
             0.625265456 -0.123060421
                                       0.246147590 -0.160054998 -0.169569425
##
  27
## 28
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                                                                  0.893691105
## 29
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                                                                  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
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##
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      -0.339967473 -1.73000543 -0.552865686
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                                                         0.380594886
      -0.200389429 -1.25252486 -0.087603166
##
  30
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##
  31
      -0.735355504 -1.65797766 -0.829709114
                                            0.4677222290 0.395876025
       0.220477911 -0.63988269 -0.241231770
##
  32
                                            0.0435287070 -0.300508456
##
  33
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##
  34
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       0.042992087
##
  35
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                                            0.2243980005 -0.022736755
##
  36
      -1.110605722
                    0.03029313 -0.290171976 -0.1567474695 -0.056106202
##
  37
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                                            0.0065956870 -0.043396292
       0.601826014
## 38
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                    0.19951569 0.508639115
                                            0.2981051135 -0.031037338
## 39
                    0.24467902 0.493817773
                                            0.2621032285 0.054267009
       0.186850247
## 40
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```

```
-0.243271768 0.99607940 0.795431556 -0.0687158055 -0.222423092
## 42
       0.404428215 0.09999943 -0.492654669 -0.2327692700 0.000000000
      -0.127897357 1.08598958 0.091096311 0.0637223965
                                                        0.129243010
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##
  44
      -0.232916560 -0.65151969 -0.436659147
                                                        0.437925104
##
  45
       0.017794641 -1.02171280 -0.178989311
                                           0.0815220035
                                                        0.410724082
       0.321189706  0.54840130  1.129907470
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##
  46
##
  47
       0.235671384 -0.64438737 -0.046396979
                                           0.3227321255 -0.126406060
## 48
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##
  49
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                                           0.2374914345
                                                        0.686954558
##
  50
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                                           0.1346201790 -0.166548764
##
  51
       0.163730361 0.63008336 -0.054714255 -0.0765985080 -0.027012166
##
  52
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                                                        0.767165411
##
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                   0.29378495 -0.183122630
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  53
                                                        0.101038165
       0.024277394
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## 54
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                   0.23858772 -0.041420848 0.2979382305
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## 56
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## 57
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       0.560046284 -0.55323811 0.085021865 0.0000000000 -0.098615474
##
##
      -0.025553076 0.39795715
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##
  60
       0.589442872 -0.27998477
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##
  61
       0.077384648 \ -0.96335116 \quad 0.102451957 \ -0.1233849625 \ -0.290511550
## 62
       0.206589037
## 63
       0.062688498 \quad 0.01877011 \quad 0.575425193 \quad 0.1482361040
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##
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       0.044904480 -1.26637744 -0.982186421 -0.0101810777
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      -0.068583827 -0.10135805 -0.949148125 0.3650134468 -0.034773298
       0.131177811 -1.77457788 -0.362653377 -0.2955689860 -0.049655965
##
  67
##
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##
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##
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##
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       ##
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                   0.92202396 0.293635648
##
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##
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##
  79
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##
  81
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                   0.88848951 0.261149621 0.6388523430
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      -0.146899941 0.23220681 -0.395133077 -0.0174303550
##
  82
                                                       0.551444587
##
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##
  84
                                                       0.043881059
##
  85
       0.571302213 0.67815034 0.748204920 -0.0997767167 -0.108342575
      -0.888621518 -1.33755868 -0.364698427 0.0264140530 0.384451932
## 86
##
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##
  88
      -0.190051134
                  ##
  89
       0.356706152
                   ##
  90
       0.118888579
                   0.25592685 -0.035965101 -0.3007771292 -0.035144688
## 91
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                   1.08053992 -0.433098227 0.0403353570 -0.027797274
## 92
       0.413815478 \quad 0.57641231 \quad -0.887864482 \quad -0.1740289650 \quad 0.050367401
## 93
       0.002991777 -0.02247905 -0.481189208 -0.1788564280 0.119633402
      -0.452485148 -2.38974828 -0.621178154 -0.4482191107 0.192154124
```

```
0.215791152 -0.81614807 0.008249092 0.5131442430 -0.081710360
      ## 96
      -1.130382090 0.38860108 -0.662673247 -0.6237017277 0.265857653
      -0.608740929 -1.27337334 -0.131764318 0.2918450210
## 98
                                                   0.000000000
## 99
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                                                    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
      105 -0.069973636 -0.01036117 -0.375810316 -0.0931370490 -0.006535084
      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
      0.004194163 -0.86311545 -0.400505681 0.2151041265 0.148263051
## 109
      0.416120359 0.22670985 0.057177117 -0.1712552535 0.098888677
      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
      0.089803262 -0.16540016 0.452559098 0.1798128213 -0.205165883
## 121
## 122
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                                       0.2498947240 -0.295904903
      0.462308221 0.59144084 0.842070263 0.8187489920 -0.105294607
## 123
## 124 -0.089180451 -0.28573220 -0.170089678 -0.0423962505 0.066781600
      1.015993732 1.13118452 0.493122911 0.0573594255 0.073119379
## 126 -0.158391652 -1.04734592 -0.093104874 0.0203011480 0.217631120
      1.141509706 0.42625168 0.050708802 -0.1404369815 -0.145791291
      ## 128
## 129
      0.096427055
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## 130
      0.285618868 -0.27580893 0.467195961 -0.1781688830 -0.014423931
      0.271503764 1.40441777 0.030178885 -0.0235978520 -0.039643729
      0.08602227 -0.52767575  0.489753121 -0.1632148375  0.164414643
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      0.066106540 0.60655533 -0.778955283 0.0748489460 -0.143589754
## 133
      ## 134
## 135
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      0.317544220 -0.23645958 0.153144917 -0.0897230788 -0.103046327
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      0.052024438
      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
                 ## 143 -0.005062408
                  0.76697253  0.068656565  0.1440491443
                                                   0.129041212
## 144 -0.176664198
                  0.20884592 -0.194169266 -0.0632621265
                                                    0.118146486
                  0.27641543 -0.102212040 0.0479738180
## 145 -0.207061387
                                                    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
                                 150 -0.418339308
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  153 -0.074300586 -0.26110202
                                 0.316144770 -0.3921427305 -0.031091660
##
  154
        0.219857950
                     0.12903439 -0.891954528 -0.0729973337
                                                              0.033316812
        0.234346553
                     0.76282807 -0.463736673
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##
  156 -0.319328469 -0.67494552 0.089738940 0.0816396260 0.001150837
                             pp_Rb pp_Rb.pS807.S811
                                                        pp_Rictor pp_Rictor.pT1135
##
          pp_Raptor
##
  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
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                                        0.245451996
                                                     0.434065091
                                                                       0.493546510
        0.056193773 -0.0813559765
                                       -0.103411269 -0.316077110
                                                                      -0.031402715
## 5
##
  6
        0.510163317 -0.5866389805
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                                                     0.018772402
                                                                      -0.421715124
##
       -0.224414658
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                                       -0.521933049
                                                     0.432280152
                                                                       0.418429528
##
  8
       -0.064475186 -0.2632749865
                                       -0.460245778 -0.049304882
                                                                      -0.149828163
##
        0.287838099
                                       -0.648135941
                                                     0.060932757
                                                                      -0.116439086
   9
                     0.0414665605
##
  10
        0.221974550 -0.1781468273
                                       -0.451683908
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                                                                      -0.171045896
##
   11
        0.342872195 -0.1722522510
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##
  12
       -0.232801795
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                                                                       0.038450087
                                       -0.079972799 -0.081168033
##
  13
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                                                                      -0.093282196
##
  14
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##
  15
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##
  16
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                                                                       0.135812810
##
  17
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##
  18
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##
   19
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                                                                      -0.086256914
##
  20
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##
  21
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##
  22
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##
   23
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
  44
       -0.397167700 0.9443529805
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## 45
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```

```
## 46
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                                                                         0.071986862
##
  47
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                                                                        -0.253594728
       -0.048165870
##
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##
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##
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       -0.005065752 -0.2148003235
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##
                                        -0.155647296
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##
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##
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                                                                        -0.017218275
##
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##
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##
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##
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##
   58
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## 113 -0.205832377 -0.0451100145
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## 116 -0.086605372 -0.1751006723
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## 135 -0.084061040 0.056913725
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## 144 -0.186963602 0.151847654
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## 147 -0.285689752 -0.487289878 -1.025457716 0.303389272 -0.1592062655
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##
            pp_TFRC
                       pp_TIGAR
                                     pp_TSC1 pp_Transglutaminase
                                                                   pp_Tuberin
## 1
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##
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##
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  9
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## 15
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```

```
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##
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##
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##
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##
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##
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      -0.007824425 -0.318532264 -0.165662873 -0.042195300 -0.1823945050
##
  12
##
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## 15
      -0.167620499 -0.139496816
##
  16
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##
      -0.038265498 -0.106710555
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  17
  18
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##
  19
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##
  20
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##
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##
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## 23
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##
  24
       ##
  25
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##
  26
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##
  27
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##
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##
  29
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## 30
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```

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##
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##
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##
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##
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                               0.213425053 -0.078256402 0.0302843125
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      -0.051895749 -0.214897528 0.019823459 0.084149909 -0.3521331780
##
  43
##
       0.542156849 - 0.043658988 - 0.233561137 - 0.342740854 - 0.2747536815
  44
##
  45
       -0.264240584 0.335574427 0.015051690 0.139148808
                                                       0.9593529655
##
  46
## 47
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##
       0.028619516 -0.396326383 -0.586690139 0.114178048
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       ##
      -0.081157519 -0.281647691 -0.183398125 -0.100722375 0.5473727335
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## 51
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## 52
       -0.211973355 -0.452701904 -0.183456090 -0.006860723 -0.2157906630
  53
      -0.036471663 0.197058895 0.102458999 -0.010487165 0.1518562160
## 54
##
  55
      -0.002392343 -1.124009489 -0.855565046 -0.289652937 0.3718279570
## 56
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       0.135706497 -0.483282292 -0.593157322 0.037557069
##
  58
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##
  59
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##
  60
## 61
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##
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##
       0.994812616 1.962346500 -0.222222713 -0.776056001 -0.8461379640
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##
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##
  66
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##
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      -0.123715270 \ -0.482590907 \ \ 0.366528833 \ -0.100279217 \ -0.4102844305
##
  69
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                               0.122137579 -0.041864007 -0.3710368057
##
  70
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##
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       0.644489947
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                              0.182835539 -0.156186054 -0.2380903610
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##
  73
  74
##
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       0.014694238 - 0.050953867 - 0.022991207 - 0.037517759 - 0.0524875845
##
  75
##
  76
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##
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## 84
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```

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0.149541627 0.080562452 -0.227564044 -0.794594326 -0.4654994255
## 86
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## 87
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      0.015055989 \ -0.128390500 \quad 0.178596771 \quad 0.142173855 \ -0.1162619820
##
  89
##
  90
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##
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  95
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##
  97
##
      0.045496556 -0.578549110 -0.052385471 -0.172684026 -1.0723418145
  98
     -0.230175799 -0.184407084 0.035709017 0.030730856
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## 100 -0.057008756 -0.396930198
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                                                  0.7770072190
## 101 -0.024030777 -1.139306893
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## 102 -0.110548503 -0.766900782
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                            0.130552371 -0.244152859
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## 104
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## 106 -0.060241064 0.136130684 0.101355937 -0.256362115
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## 107 -0.168164995 -0.238841955 0.011066140 0.040909273
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## 108 -0.402729799 -0.291612020 -0.088720868 -0.146171811
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## 109 0.047340023 -0.091371460 -0.812670865 -0.064184860
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## 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
## 115 -0.015000737 0.475103190 -0.260251218 -0.092682148 -0.1258759590
## 116 -0.134625241 0.192118896 0.042903797 -0.412440017
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## 117
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## 118 -0.034402010 -0.428126905 -0.100175950 0.581625664
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## 120 -0.097815488 -0.584809212 0.611677949 -0.091691974
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## 121 0.039773257 -0.447074758 0.393454029 0.104240073 -0.0762189017
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## 125 -0.073752810 -0.042504325 0.275156572 0.095112238 -0.0293728800
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## 127 -0.129780551 0.063346891 0.186922112 0.013049310 -0.0977482550
## 128 -0.079583943 -0.406887365
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## 129 -0.257856937 -0.398640427
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## 130 -0.213993980 -0.103044569
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## 132 0.175476265 -0.041317126 -0.210728692 -0.144695959
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## 133 -0.117755436 -0.203367333 -0.014597892 0.017351641 -0.0838978605
## 134 -0.015547595 -0.387287914 0.046780092 0.049357440
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      0.0242904313
0.7815321902
## 137 -0.102498570 0.026652946 0.204794112 0.204036402
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## 138  0.069001914 -0.744886505  0.117628483 -0.034476899 -0.3718845730
## 139 -0.034525901 -0.411567300 -0.196394220 -0.004632873 0.3298325560
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0.001387266 -0.333268031 0.042730771 0.211150312
                                                            0.0429664428
## 141
       0.011027486 -0.394261203 -0.025808937
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                                                            0.1188649515
  142 -0.148176358 -0.543453377
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                                               0.145302056 -0.1065481002
                                  0.297472541
## 143 -0.003408527 -0.288670779
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## 144 -0.107848945 -0.362528913
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                                               0.141394458
                                                            0.3457968265
## 145 -0.064636603 -0.047322303
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## 146 -0.059105526
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## 147 -0.115731512 -0.135155860
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## 148
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  149 -0.017811049
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  150 -0.010852927
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  152
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  154
       0.242857143
   155
       0.065070419
                     ##
##
  156
       0.275788490
                     0.116818904 - 0.650302264 \ 0.077611334 - 1.0272688695
            pp_eIF4E
                                        pp_mTOR pp_mTOR.pS2448 pp_p16.INK4a
##
                         pp_eIF4G
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##
        0.0576216950 -0.201801367
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  1
                      0.344308456 -0.4349115625
##
  2
        0.4033372120
                                                   0.258329747
                                                                 0.89019386
##
  3
       0.2268358535
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                                                  -0.128815228
                                                                -0.01236628
##
       0.0180540017 -0.025084983
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                                                   0.069395288
                                                                -0.31174931
       0.1980177360 -0.402711605 -0.2610131525
## 5
                                                  -0.019797394
                                                                 0.45060184
##
  6
       -0.0755110135
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##
  7
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                                                  -0.100941827
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## 8
       0.2838658030
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##
  9
        0.2324819600
                                                  -0.239197882
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## 10
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                                                  -0.087682939
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## 11
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##
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  12
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##
  13
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##
  14
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##
   15
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                                                   0.085439101
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##
  16
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##
   17
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                                                                 0.85863864
##
  18
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                                                   0.105635587
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  19
       -0.0405472150 -0.283911076
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##
  20
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                                                                -0.83524904
##
  21
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##
  22
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##
  23
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##
  24
       -0.246563859
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##
  25
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                                                   0.408339043
                                                                 0.85331286
##
  26
       0.0156887645 -0.288199545
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##
  27
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##
  28
       0.0088714805 0.172156285
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                                                   0.273201967
                                                                -0.44467578
##
  29
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##
  30
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##
  31
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                                                                -0.21798678
##
   32
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                                                   0.196555491
                                                                 0.82459354
##
  33
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                                                  -0.210795211
                                                                 0.49086633
##
  34
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                                                   0.123452778
                                                                 1.37825594
##
  35
       -0.1797722230 0.261565532 -0.0944161595
                                                   0.022711935
                                                                 0.83201608
## 36
        0.1685026520 0.037563394 -0.7332464345
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                                                                 1.67510933
```

```
-0.2306116345 -0.077580143
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                                                   -0.737486968
                                                                   0.47273086
## 38
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                                                    0.235447984
##
  39
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                                                    0.218051165
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##
  40
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##
  41
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##
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                                                                   0.02071118
  42
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                                                    0.361615621
##
  43
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                      0.401625650 -0.1960240165
                                                   -0.061039302
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##
  44
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                                                   -0.393738635
                                                                  -0.92661855
##
  45
        0.1815400560 -1.024532866 -0.6613402925
                                                   -0.544044851
                                                                   1.27854718
##
  46
        0.1128356265
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                                                    0.038404136
                                                                   0.54197526
##
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## 90
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## 104 -0.2658934060 -0.055911213 -0.3697677855
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## 105 -0.0209472555
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## 109
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## 111 -0.1256971365
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## 112 -0.0062763725 -0.061022397 -0.2303352540
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## 115 -0.0708509255
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## 118
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## 144 0.2026391910 0.259541244 -0.0727098025
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## 145 0.2911885615 0.481034052 -0.3316430740
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##
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##
             pp_p21
                          pp_p27 pp_p27.pT157
##
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## 2
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##
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##
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##
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##
  18
##
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##
  20
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       0.2206055620 \; -0.412178077 \; -0.1623089130 \quad 0.1301246985 \quad 0.133936357
##
  21
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##
  22
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##
  23
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##
  26
##
  27
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  36
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##
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  38
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## 41
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##
  47
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  56
## 57
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##
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##	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
                                -0.292721576 -0.80088211
             -0.561664561
                                                               0.032766367
           pp_p90RSK pp_p90RSK.pT359.S363
##
        0.0116379730
##
  1
                               -0.207256814
##
   2
       -0.0893652800
                                0.267529559
##
  .3
       -0.2221495655
                               -0.198518362
##
        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
                               -0.342924312
##
  11
        0.1004060395
## 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
        0.2015112400
                               -0.383346376
##
  19
                               -0.046568946
## 20
       -0.2096092055
##
  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
        0.1261199625
##
  27
                                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
##
       -0.0529499600
   33
                               -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
##
       -0.3101871400
   41
                                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
        0.000000000
                               -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 91	0.7445018402 -0.2532901715	-0.045609598 -0.087872817
##	92	-0.3840437505	-0.057328386
##	93	-0.5349093765	0.025531987
##	93 94	-0.5299069662	0.272743594
##	9 4 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
			1112.000001

```
## 106
       0.0185342268
                             -0.145447816
## 107
       0.2626923380
                              0.400822571
       0.2610754365
                             -0.113562231
## 108
## 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
      0.2539838780
## 124
                             -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
                              0.005199930
## 135
       0.0306137633
## 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
                              0.096487858
## 145 -0.2258909425
## 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)

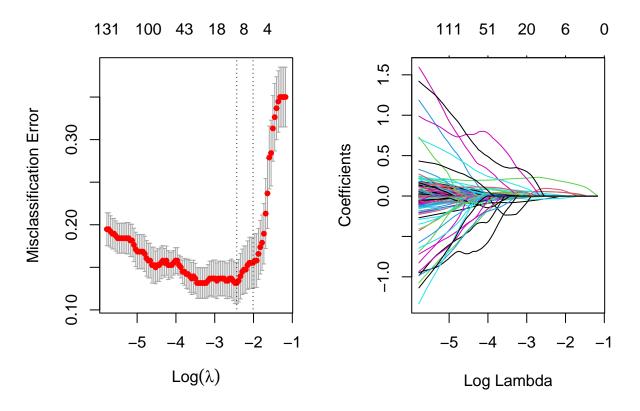
Split the data:

```
## 75% of the sample size
smp_size <- floor(0.75 * nrow(non_categorical_brca))</pre>
## set the seed to make your partition reproducible
set.seed(123)
train_ind <- sample(seq_len(nrow(non_categorical_brca)), size = smp_size)</pre>
brca_train <- as.matrix(non_categorical_brca[train_ind, ])</pre>
brca_test <- as.matrix(non_categorical_brca[-train_ind, ])</pre>
train_y = as.matrix(predictors$PR.Status[train_ind])
brca_train_1 = as.matrix(cbind(brca_train, train_y))
The best k is 10
library(caret)
library(class)
train_y = as.matrix(predictors$PR.Status[train_ind])
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
##
              Negative Positive
## pred
##
                   23
    Negative
     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", family = "bit")
```

```
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$lambda.min
test_predict = predict(lasso.fit, brca_test, s = best_lambda, type = "class")
cmat_1 = table(predictors$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

The classification error is 0.1811024

Modelling histological.type with Logistic (with Ridge and Lasso penalty)

Next, let us model histological.type, using AUC as the evaluation criterion.

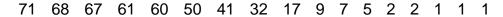
First, use Penalized Logistic Regression:

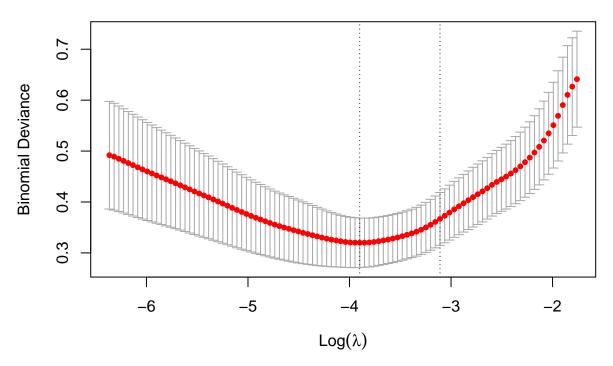
```
library(glmnet)
require(methods)

train_y_hist= as.matrix(predictors$histological.type[train_ind])
brca_train_2 = as.matrix(cbind(brca_train, train_y_hist))

# need to force matrix as dgCMatrix for some reason??: https://stackoverflow.com/questions/8458233/r-gl

# using the train data and 10-fold CV
logistic.fit = cv.glmnet(x = as(data.matrix(brca_train_2[, -c(640)]), "dgCMatrix"), y = brca_train_2[, plot(logistic.fit)
```



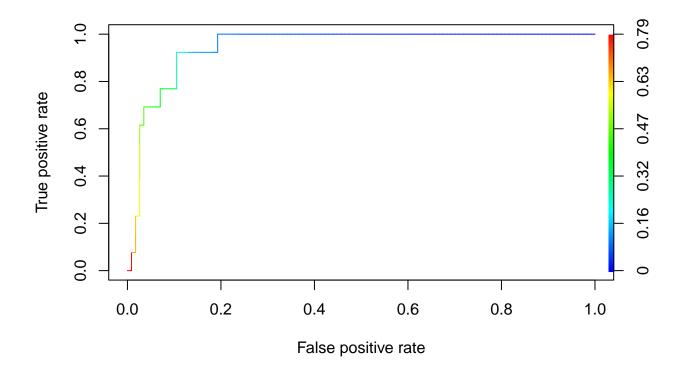


Next, use this model to predict on the test data:

```
library(ROCR)
test_predict <- predict(logistic.fit, brca_test, type="response")

roc <- prediction(test_predict, predictors$histological.type[-train_ind])

# calculates the ROC curve
perf <- performance(roc,"tpr","fpr")
plot(perf,colorize=TRUE)</pre>
```



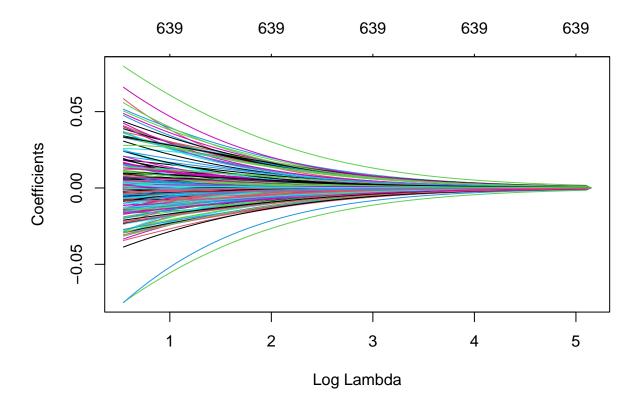
The AUC:

```
performance(roc, measure = "auc")@y.values[[1]]
```

[1] 0.9473684

Next, try with Ridge:

```
library(glmnet)
set.seed(432)
ridge.fit = cv.glmnet(as(data.matrix(brca_train_2[, -c(640)]), "dgCMatrix"), y = brca_train_2[, 640], n
plot(ridge.fit$glmnet.fit, "lambda")
```

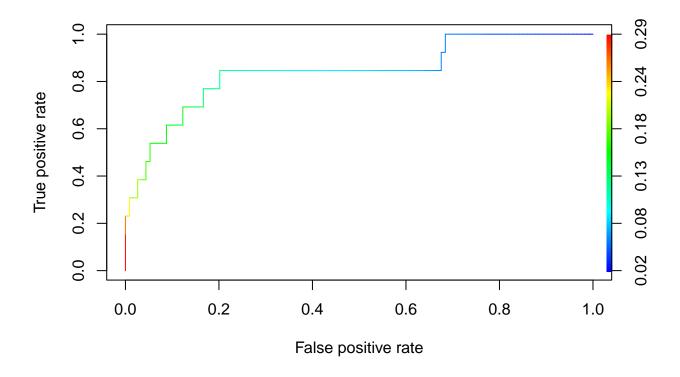


Next, use this model to predict on the test data:

```
library(ROCR)
test_predict <- predict(ridge.fit, brca_test, type="response")

roc <- prediction(test_predict, predictors$histological.type[-train_ind])

# calculates the ROC curve
perf <- performance(roc, "tpr", "fpr")
plot(perf, colorize=TRUE)</pre>
```



The AUC:

```
performance(roc, measure = "auc")@y.values[[1]]
```

[1] 0.8407557

The AUC for logistic regression with ridge penalty is lower than the lasso penalty.

Modelling histological.type with Kernel

```
library(randomForest)

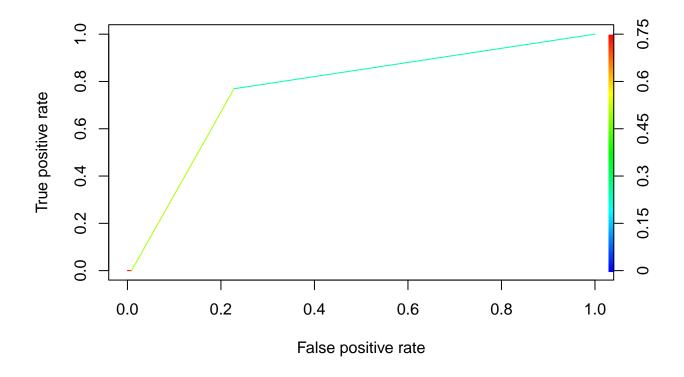
## randomForest 4.6-14

## Type rfNews() to see new features/changes/bug fixes.

## ## Attaching package: 'randomForest'

## The following object is masked from 'package:ggplot2':
## ## margin
```

```
## The following object is masked from 'package:dplyr':
##
##
       combine
set.seed(432)
rf.fit = randomForest(data.matrix(brca_train_2[, -c(640)]), y = as.factor(brca_train_2[, 640]), ntree =
Next, use this model to predict on the test data:
library(ROCR)
library(pROC)
## Type 'citation("pROC")' for a citation.
##
## Attaching package: 'pROC'
## The following objects are masked from 'package:stats':
##
##
       cov, smooth, var
test.predictions <- predict(rf.fit, type="prob", newdata=brca_test)[,2]</pre>
correct_hist = as.factor(predictors$histological.type[-train_ind])
rf_pr_test <- prediction(test.predictions, correct_hist)</pre>
r_auc_test <- performance(rf_pr_test, "tpr", "fpr")</pre>
plot(r_auc_test, colorize=TRUE)
```



The AUC:

```
performance(rf_pr_test, measure = "auc")@y.values[[1]]
```

[1] 0.7672065

this is bad

50-Variable Selection

PR.Status

```
library(dplyr)
brca_data = read.csv("https://raw.githubusercontent.com/mgarbvs/STAT-432-final-project/main/cleaned_brc
# remove X.1 and X columns
brca_data = brca_data %>% select(-c("X.1", "X"))

# store the outcomes
outcomes = brca_data %>% select(c("PR.Status", "ER.Status", "HER2.Final.Status", "histological.type"))
# remove the categorical var temporarily
brca_data = brca_data %>% select(-c("PR.Status", "ER.Status", "HER2.Final.Status", "histological.type")
```

```
# Create a correlation matrix and select only variables with some correlation to the target
PR.Status = as.numeric(as.factor(outcomes$PR.Status))-1
pr_data = cbind(PR.Status, brca_data)
pr_data[sapply(pr_data, is.character)] <- lapply(pr_data[sapply(pr_data, is.character)], as.numeric)</pre>
# head(pr_data)
M <- cor(pr_data)</pre>
correlation_threshold <- 0.446</pre>
significant_correlation <- abs(M["PR.Status", ]) > correlation_threshold
table(significant_correlation)
## significant_correlation
## FALSE TRUE
## 1886
            51
corr_colnames <- colnames(M)[significant_correlation]</pre>
library(caret)
# Linear regression model with selected features, 10 K-fold cross validation using the "caret" package
set.seed(432)
## 75% of the sample size
smp_size <- floor(0.75 * nrow(pr_data))</pre>
## set the seed to make your partition reproducible
train_ind <- sample(seq_len(nrow(pr_data)), size = smp_size)</pre>
train y <- outcomes$PR.Status[train ind]</pre>
pr_train <- cbind(train_y, pr_data[train_ind, ])</pre>
pr_train <- pr_train[, corr_colnames]</pre>
# Training parameters
ctrl <- trainControl(method = "cv",</pre>
                      number = 5.
                      savePredictions = TRUE,
                      classProbs = FALSE)
# Fitting model
mod_fit <- train(as.factor(PR.Status) ~ ., data=pr_train,</pre>
                  method="glm",
                  family="binomial",
                  trControl = ctrl,
                  tuneLength = 5)
summary(mod_fit)
##
```

Call:
NULL

```
##
## Deviance Residuals:
       Min
                 1Q
                      Median
                                    30
                                            Max
  -3.2824
                                0.2986
           -0.1375
                      0.0672
                                         2.3869
## Coefficients:
                  Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                 2.239e+00
                            3.857e+00
                                         0.581 0.561543
## rs TFF1
                -1.483e-02
                            1.374e-01
                                       -0.108 0.914037
## rs_CYP2B7P1
                 2.265e-01
                            9.449e-02
                                         2.397 0.016525 *
## rs_AGR3
                 1.365e-01
                            1.512e-01
                                         0.903 0.366535
## rs_Clorf64
                -3.771e-01
                            1.530e-01
                                        -2.466 0.013673
## rs_TFF3
                 5.694e-02
                            1.757e-01
                                         0.324 0.745846
                                         0.703 0.481818
## rs_AGR2
                 1.182e-01
                            1.681e-01
## rs_GFRA1
                 1.312e-01
                            1.096e-01
                                         1.198 0.231024
## rs_PGR
                 6.742e-01
                            1.966e-01
                                         3.430 0.000604 ***
## rs_VGLL1
                -7.153e-02
                            1.480e-01
                                       -0.483 0.628819
## rs SERPINA11 2.004e-02
                            1.278e-01
                                         0.157 0.875348
## rs_A2ML1
                            1.068e-01
                                        -2.019 0.043456
                -2.156e-01
## rs PTPRT
                 1.076e-01
                            1.173e-01
                                         0.917 0.359118
## rs_ESR1
                -6.531e-01 2.918e-01
                                        -2.238 0.025204 *
## rs SYT9
                -8.222e-03 1.070e-01
                                        -0.077 0.938773
## rs_GRPR
                 2.118e-01
                            1.363e-01
                                         1.554 0.120260
## rs CHAD
                -6.777e-02
                            1.121e-01
                                        -0.604 0.545638
## rs ABCC8
                -2.369e-01
                            1.317e-01
                                       -1.799 0.072056
## rs PGLYRP2
                 9.117e-02
                            1.115e-01
                                         0.817 0.413644
## rs_SCUBE2
                -1.256e-01
                            1.867e-01
                                        -0.673 0.501028
                                       -0.382 0.702546
## rs_NEK10
                -6.247e-02
                           1.636e-01
## rs_ERBB4
                -1.088e-01
                           1.596e-01
                                       -0.682 0.495434
                 4.746e-02 1.781e-01
## rs_FSIP1
                                         0.266 0.789873
## rs_FOXA1
                -2.325e-01
                            2.695e-01
                                       -0.863 0.388207
## rs_NAT1
                 2.792e-01
                            1.454e-01
                                         1.920 0.054814
## rs_SLC7A2
                -4.151e-01
                            1.519e-01
                                        -2.733 0.006271 **
## rs_FLJ45983
                            1.541e-01
                                         1.372 0.170134
                 2.114e-01
## rs ART3
                            1.470e-01
                 1.355e-01
                                         0.922 0.356721
## rs_PPP1R14C
                -1.188e-01
                           1.730e-01
                                        -0.687 0.492117
## rs RGS22
                -5.212e-03
                            1.463e-01
                                        -0.036 0.971592
## rs_C1orf173
                                        -1.079 0.280442
                -1.565e-01
                            1.450e-01
## rs_RBM24
                -4.967e-02
                            1.347e-01
                                        -0.369 0.712331
## rs_GRIK3
                 1.108e-01
                            1.449e-01
                                         0.765 0.444500
## rs TPRG1
                -2.989e-01
                            1.600e-01
                                        -1.868 0.061736
## rs AFF3
                 5.398e-01
                            2.279e-01
                                         2.368 0.017871
## rs TUBA3E
                 2.454e-01
                            1.668e-01
                                         1.472 0.141087
## rs_SBSN
                -3.018e-01
                            1.493e-01
                                       -2.022 0.043177 *
## rs_SOX11
                -8.875e-02
                           1.319e-01
                                        -0.673 0.501136
## rs_TTC36
                 6.829e-02
                            1.464e-01
                                         0.466 0.640947
## rs_GABBR2
                 4.582e-02
                            1.453e-01
                                         0.315 0.752504
## rs_DEGS2
                 1.801e-02
                            2.165e-01
                                         0.083 0.933714
## rs_ADAMTS15
                 3.231e-01
                            1.622e-01
                                         1.992 0.046333
## rs_CLSTN2
                -2.241e-01
                            1.943e-01
                                        -1.153 0.248769
## rs_ACE2
                -3.671e-02
                           1.324e-01
                                        -0.277 0.781555
## rs_AMY1A
                 4.939e-03 1.499e-01
                                         0.033 0.973707
## cn_HAPLN1
                -1.302e+01 1.385e+03
                                        -0.009 0.992501
## cn EDIL3
                 1.368e+01 1.385e+03
                                         0.010 0.992123
```

```
## pp_ASNS
           -2.633e-01 5.098e-01 -0.516 0.605516
## pp_ER.alpha 5.648e-01 3.039e-01 1.859 0.063096 .
## pp_GATA3 -1.914e-01 3.922e-01 -0.488 0.625517
               1.195e-01 2.478e-01 0.482 0.629684
## pp_PR
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
##
      Null deviance: 485.58 on 379 degrees of freedom
## Residual deviance: 169.42 on 329 degrees of freedom
## AIC: 271.42
##
## Number of Fisher Scoring iterations: 15
```

Compute and plot the AUC:

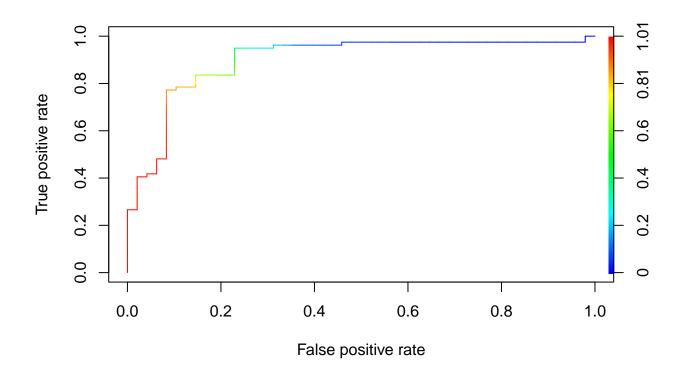
```
library(pROC)
library(ROCR)

test_y <- outcomes$PR.Status[-train_ind]
pr_test <- cbind(test_y, pr_data[-train_ind,])

# length(test_y)
# dim(pr_data[-train_ind,])

test_predict <- predict(mod_fit, pr_test, type="prob")
roc <- prediction(test_predict[,2], test_y)

# calculates the ROC curve
perf <- performance(roc, "tpr", "fpr")
plot(perf,colorize=TRUE)</pre>
```



```
# obtaining the AUC
performance(roc, measure = "auc")@y.values[[1]]
```

The AUC for PR.Status is 0.8989979

Histological. Type

```
library(dplyr)
brca_data = read.csv("https://raw.githubusercontent.com/mgarbvs/STAT-432-final-project/main/cleaned_brc
# remove X.1 and X columns
brca_data = brca_data %>% select(-c("X.1", "X"))

# store the outcomes
outcomes = brca_data %>% select(c("PR.Status", "ER.Status", "HER2.Final.Status", "histological.type"))
# remove the categorical var temporarily
brca_data = brca_data %>% select(-c("PR.Status", "ER.Status", "HER2.Final.Status", "histological.type")

# Create a correlation matrix and select only variables with some correlation to the target
histological.type = as.numeric(as.factor(outcomes$histological.type))

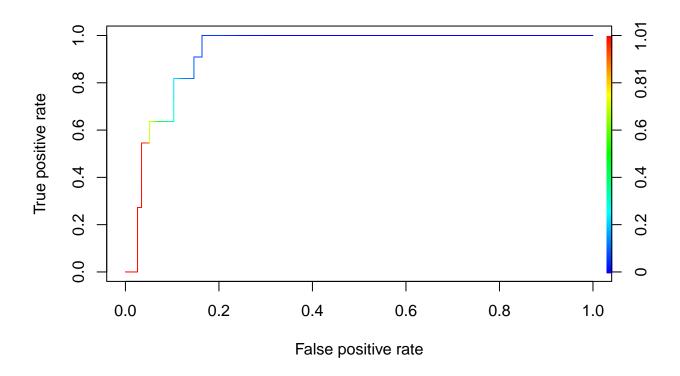
hist_data = cbind(histological.type, brca_data)
```

```
# head(hist_data,20)
hist_data[sapply(hist_data, is.character)] <- lapply(hist_data[sapply(hist_data, is.character)], as.num
M <- cor(hist_data)</pre>
correlation_threshold <- 0.204</pre>
significant_correlation <- abs(M["histological.type", ]) > correlation_threshold
table(significant_correlation)
## significant_correlation
## FALSE TRUE
## 1886
            51
corr_colnames <- colnames(M)[significant_correlation]</pre>
library(caret)
set.seed(432)
## 75% of the sample size
smp_size <- floor(0.75 * nrow(hist_data))</pre>
## set the seed to make your partition reproducible
train_ind <- sample(seq_len(nrow(hist_data)), size = smp_size)</pre>
train_y <- outcomes$histological.type[train_ind]</pre>
hist_train <- cbind(train_y, hist_data[train_ind, ])</pre>
hist_train <- hist_train[, corr_colnames]</pre>
# Training parameters
ctrl <- trainControl(method = "cv",</pre>
                      number = 5,
                      savePredictions = TRUE,
                      classProbs = FALSE)
# Fitting model
mod_fit <- train(as.factor(histological.type) ~ ., data=hist_train,</pre>
                  method="glm",
                  family="binomial",
                  trControl = ctrl,
                  tuneLength = 5)
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type = if (type == :
## prediction from a rank-deficient fit may be misleading
\mbox{\tt \#\#} Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
```

```
## Warning: glm.fit: algorithm did not converge
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
summary(mod_fit)
##
## Call:
## NULL
##
## Deviance Residuals:
       Min
                  1Q
                        Median
                                       3Q
                                                Max
## -2.07602 -0.06594 -0.01469 -0.00141
                                            2.54704
##
## Coefficients:
##
                    Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                  -1.476e+01 4.948e+00 -2.984 0.002849 **
## rs_TFAP2B
                   1.662e-01 1.896e-01
                                          0.877 0.380744
## rs_CYP4Z1
                  -3.451e-02 1.778e-01 -0.194 0.846115
## rs C7
                   -1.996e-01 4.106e-01 -0.486 0.626864
## rs_ABCA8
                   2.879e-01 4.696e-01
                                         0.613 0.539849
## rs_SLC26A3
                   2.155e-01 1.744e-01
                                          1.235 0.216705
## rs_ADCY5
                   -5.141e-02 2.788e-01 -0.184 0.853714
## rs_RERGL
                   7.007e-01 4.343e-01
                                         1.613 0.106642
## rs_ANKRD43
                   3.110e-01 2.359e-01
                                          1.318 0.187410
## rs_LOC389033
                   -1.143e-01 2.593e-01 -0.441 0.659404
## rs_CCL14
                  -9.174e-02 6.062e-01
                                        -0.151 0.879725
## rs_MMRN1
                   2.245e-01 3.218e-01
                                          0.698 0.485381
## cn_PART1
                   -1.521e-01 2.783e+00
                                         -0.055 0.956405
## cn_GTF2H2B
                  -8.524e-01 1.114e+01
                                         -0.076 0.939026
## cn_CARTPT
                  -2.972e+00 2.154e+01
                                        -0.138 0.890265
## cn FOXD1
                   5.581e+00 2.161e+01
                                         0.258 0.796189
## cn F2RL2
                   2.366e+01 8.390e+03
                                          0.003 0.997750
## cn_PDE8B
                  -2.296e+01 8.390e+03 -0.003 0.997816
## cn_THBS4
                   1.689e+01 4.711e+03
                                          0.004 0.997139
## cn CKMT2
                   7.321e+00 8.693e+03
                                          0.001 0.999328
## cn HAPLN1
                   -1.575e+01 1.254e+04
                                         -0.001 0.998998
## cn_EDIL3
                  -1.154e+01 7.718e+03
                                        -0.001 0.998807
## cn GPR98
                   -1.013e+00 1.559e+01
                                         -0.065 0.948220
## cn_FAM81B
                   -2.754e+00 2.191e+03
                                         -0.001 0.998997
## cn_C5orf27
                   -3.445e+00 2.313e+03
                                         -0.001 0.998812
## cn_PCSK1
                                          0.001 0.998922
                   5.015e+00 3.710e+03
## cn ERAP2
                   2.211e+00 1.901e+03
                                          0.001 0.999072
## cn_EFNA5
                   1.214e+00 1.678e+01
                                          0.072 0.942319
## cn_TSLP
                   1.120e+01 5.599e+03
                                          0.002 0.998403
## cn_TRIM36
                  -1.126e+01 5.599e+03
                                        -0.002 0.998396
## cn_CD01
                   1.438e+01 9.420e+03
                                          0.002 0.998782
```

```
## cn_AQPEP
                  -1.341e+01 9.420e+03 -0.001 0.998864
                  2.467e+00 1.228e+04 0.000 0.999840
## cn_CDH3
## cn CDH1
                  -9.113e+00 9.116e+03 -0.001 0.999202
## cn_HAS3
                  6.683e+00 8.225e+03 0.001 0.999352
## cn_TAT
                  -1.883e-01 7.649e+00 -0.025 0.980363
## cn HP
                 -9.571e-01 5.139e+00 -0.186 0.852261
## mu CDH1
                  4.093e+00 1.179e+00 3.471 0.000518 ***
## pp_Caspase.8 1.723e+00 2.584e+00 0.667 0.504800
## pp_Caveolin.1 -7.661e-02 6.437e-01 -0.119 0.905259
## pp_DJ.1
                  1.749e+00 1.558e+00 1.123 0.261526
## pp_Dv13
                  -3.971e+00 2.517e+00 -1.578 0.114664
## pp_E.Cadherin -1.129e+00 6.820e-01 -1.655 0.097848
## pp_ENY2
                  1.088e+00 1.313e+00 0.828 0.407406
## pp_Myosin.IIa -7.800e-01 1.386e+00 -0.563 0.573591
## pp_RBM15
                  1.714e+00 1.092e+00
                                        1.570 0.116511
## pp_Rab11
                  -3.036e+00 1.947e+00 -1.559 0.119019
## pp_S6
                 -1.613e+00 1.307e+00 -1.234 0.217064
## pp_SLC1A5
                  -7.351e-01 9.635e-01 -0.763 0.445498
## pp_beta.Catenin -4.839e-01 1.378e+00 -0.351 0.725543
## pp_eIF4G
                  -1.539e+00 1.270e+00 -1.212 0.225454
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
      Null deviance: 251.428 on 379
                                      degrees of freedom
## Residual deviance: 59.391 on 329
                                      degrees of freedom
## AIC: 161.39
##
## Number of Fisher Scoring iterations: 19
Compute and plot the AUC:
library(pROC)
library(ROCR)
test_y <- as.data.frame(outcomes$histological.type[-train_ind])</pre>
dim(test_y)
## [1] 127
dim(hist_data[-train_ind,])
## [1] 127 1937
hist_test <- cbind(test_y, hist_data[-train_ind, ])</pre>
test predict <- predict(mod fit, hist test, type="prob")</pre>
roc <- prediction(test_predict[,2], test_y)</pre>
# calculates the ROC curve
```

```
perf <- performance(roc,"tpr","fpr")
plot(perf,colorize=TRUE)</pre>
```



```
# obtaining the AUC
performance(roc, measure = "auc")@y.values[[1]]
```

The AUC for histological type is 0.9318182

ER.Status

```
library(dplyr)
brca_data = read.csv("https://raw.githubusercontent.com/mgarbvs/STAT-432-final-project/main/cleaned_brc
# remove X.1 and X columns
brca_data = brca_data %>% select(-c("X.1", "X"))

# store the outcomes
outcomes = brca_data %>% select(c("PR.Status", "ER.Status", "HER2.Final.Status", "histological.type"))
# remove the categorical var temporarily
brca_data = brca_data %>% select(-c("PR.Status", "ER.Status", "HER2.Final.Status", "histological.type")
```

```
# Create a correlation matrix and select only variables with some correlation to the target
ER.Status = as.numeric(as.factor(outcomes$ER.Status))
er_data = cbind(ER.Status, brca_data)
er_data[sapply(er_data, is.character)] <- lapply(er_data[sapply(er_data, is.character)], as.numeric)</pre>
M <- cor(er_data)</pre>
correlation_threshold <- 0.501</pre>
significant_correlation <- abs(M["ER.Status", ]) > correlation_threshold
table(significant_correlation)
## significant_correlation
## FALSE TRUE
## 1886
            51
corr_colnames <- colnames(M)[significant_correlation]</pre>
library(caret)
set.seed(432)
## 75\% of the sample size
smp_size <- floor(0.75 * nrow(er_data))</pre>
## set the seed to make your partition reproducible
train_ind <- sample(seq_len(nrow(er_data)), size = smp_size)</pre>
train_y <- outcomes$ER.Status[train_ind]</pre>
er_train <- cbind(train_y, er_data[train_ind, ])</pre>
er_train <- er_train[, corr_colnames]</pre>
# Training parameters
ctrl <- trainControl(method = "cv",</pre>
                      number = 5,
                      savePredictions = TRUE,
                      classProbs = FALSE)
# Fitting model
mod_fit <- train(as.factor(ER.Status) ~ ., data=er_train,</pre>
                  method="glm",
                  family="binomial",
                  trControl = ctrl,
                  tuneLength = 5)
## Warning: glm.fit: algorithm did not converge
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
```

```
## Warning: glm.fit: algorithm did not converge
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: algorithm did not converge
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: algorithm did not converge
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: algorithm did not converge
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning: glm.fit: algorithm did not converge
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
summary(mod_fit)
##
## Call:
## NULL
##
## Deviance Residuals:
##
     Min
              1Q Median
                              3Q
                                     Max
  -8.49
                    0.00
                            0.00
                                    8.49
##
            0.00
##
## Coefficients:
##
                 Estimate Std. Error
                                        z value Pr(>|z|)
## (Intercept)
                6.956e+15 6.099e+07 114052178
                                                  <2e-16 ***
                                                  <2e-16 ***
## rs TFF1
                3.932e+14 2.018e+06 194897908
## rs CYP2B7P1
                9.201e+13 1.487e+06
                                      61865404 <2e-16 ***
## rs_AGR3
                3.333e+14 2.543e+06 131095335
                                                  <2e-16 ***
## rs_GP2
                1.626e+13 1.546e+06
                                       10515790
                                                  <2e-16 ***
## rs_Clorf64 -1.600e+14 2.082e+06 -76861520
                                                  <2e-16 ***
## rs_TFF3
               -3.281e+14 2.782e+06 -117932448
                                                  <2e-16 ***
                2.001e+14 2.718e+06
## rs_AGR2
                                       73633411
                                                  <2e-16 ***
## rs_GFRA1
                5.871e+13 1.768e+06
                                       33202850
                                                  <2e-16 ***
## rs_PGR
                6.277e+13 2.000e+06
                                       31392302
                                                  <2e-16 ***
## rs_VGLL1
               -6.556e+13 2.397e+06 -27352502
                                                  <2e-16 ***
## rs_SERPINA11 -2.112e+14 1.889e+06 -111825460
                                                  <2e-16 ***
## rs_KRT16
               -2.747e+14 2.311e+06 -118860169
                                                  <2e-16 ***
## rs A2ML1
               -4.880e+13 2.044e+06 -23879318
                                                  <2e-16 ***
## rs_ESR1
               -7.516e+13 3.914e+06 -19203128
                                                  <2e-16 ***
## rs_SYT9
               -4.261e+13 1.871e+06 -22777598
                                                  <2e-16 ***
## rs_GRPR
               1.063e+14 1.890e+06
                                       56220055
                                                  <2e-16 ***
```

<2e-16 ***

-7.531e+13 1.729e+06 -43558352

-5.822e+13 2.182e+06 -26676185 <2e-16 ***

rs_CHAD

rs_WNK4

```
## rs_ABCC8
                1.311e+14 2.053e+06
                                       63864341
                                                  <2e-16 ***
                3.206e+14 2.482e+06
## rs_SLC44A4
                                      129174389
                                                  <2e-16 ***
## rs SCUBE2
                                      -82500887
               -2.141e+14 2.596e+06
                                                  <2e-16 ***
## rs_ERBB4
                8.612e+13 2.375e+06
                                       36257897
                                                  <2e-16 ***
## rs_BCAS1
                1.337e+14 2.528e+06
                                       52887597
                                                  <2e-16 ***
## rs HORMAD1
               -7.558e+13 2.281e+06
                                      -33132008
                                                  <2e-16 ***
## rs FSIP1
               -7.670e+13 2.547e+06
                                      -30114803
                                                  <2e-16 ***
## rs_FOXA1
               -7.239e+14 4.188e+06 -172844038
                                                  <2e-16 ***
## rs_NAT1
               -1.273e+14 2.235e+06
                                      -56954494
                                                  <2e-16 ***
## rs_SLC7A2
               -4.000e+13 2.001e+06
                                      -19986653
                                                  <2e-16 ***
## rs_FLJ45983 -8.835e+13 2.440e+06
                                      -36211345
                                                  <2e-16 ***
## rs_ART3
               -1.188e+14 2.319e+06
                                      -51242674
                                                  <2e-16 ***
               2.015e+13 2.810e+06
## rs_PPP1R14C
                                        7168824
                                                  <2e-16 ***
## rs_RGS22
               -1.562e+14 2.261e+06
                                      -69093025
                                                  <2e-16 ***
## rs_AR
                2.210e+14 3.045e+06
                                       72561576
                                                  <2e-16 ***
## rs_AFF3
                8.107e+13
                           2.825e+06
                                       28692783
                                                  <2e-16 ***
## rs_BCL11A
                                        3464524
                8.410e+12 2.428e+06
                                                  <2e-16 ***
## rs SBSN
                1.217e+14 2.359e+06
                                       51569252
                                                  <2e-16 ***
## rs_SOX11
               -1.590e+14 2.122e+06 -74959804
                                                  <2e-16 ***
## rs_TTC36
               -1.521e+14 2.511e+06
                                      -60594295
                                                  <2e-16 ***
## rs_GABBR2
                2.199e+14 2.422e+06
                                       90797108
                                                  <2e-16 ***
## rs_SLC15A1
                5.099e+13 2.446e+06
                                       20841622
                                                  <2e-16 ***
## rs DEGS2
               -9.733e+13 3.343e+06
                                                  <2e-16 ***
                                      -29112764
## rs_ADAMTS15
                1.447e+14 2.434e+06
                                       59452809
                                                  <2e-16 ***
## rs_CLSTN2
                5.760e+13 2.860e+06
                                       20139630
                                                  <2e-16 ***
## rs_DACH1
                4.690e+13 2.448e+06
                                       19160353
                                                  <2e-16 ***
## rs_LOC84740 -2.324e+14 2.119e+06 -109662842
                                                  <2e-16 ***
## rs_ACE2
               -1.016e+14 2.300e+06
                                      -44182529
                                                  <2e-16 ***
## rs_AMY1A
                1.702e+14 2.500e+06
                                       68058773
                                                  <2e-16 ***
## pp_ER.alpha 8.526e+14 4.122e+06
                                      206849284
                                                  <2e-16 ***
## pp_GATA3
               -2.602e+14
                           6.658e+06
                                      -39080374
                                                  <2e-16 ***
## pp_INPP4B
               -1.661e+14 5.823e+06
                                     -28519970
                                                  <2e-16 ***
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
##
      Null deviance: 411.29 on 379 degrees of freedom
## Residual deviance: 1009.22 on 329 degrees of freedom
## AIC: 1111.2
##
## Number of Fisher Scoring iterations: 25
Compute and plot the AUC:
library(pROC)
library(ROCR)
test_y <- as.data.frame(outcomes$ER.Status[-train_ind])</pre>
dim(test_y)
```

[1] 127 1

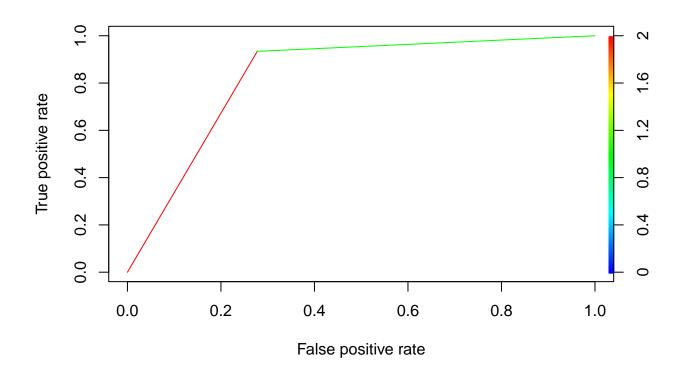
```
dim(er_data[-train_ind,])

## [1] 127 1937

er_test <- cbind(test_y, er_data[-train_ind, ])

test_predict <- predict(mod_fit, er_test, type="prob")
roc <- prediction(test_predict[,2], test_y)

# calculates the ROC curve</pre>
```



```
# obtaining the AUC
performance(roc, measure = "auc")@y.values[[1]]
```

The AUC for ER. Status is 0.9318182

perf <- performance(roc,"tpr","fpr")</pre>

plot(perf,colorize=TRUE)

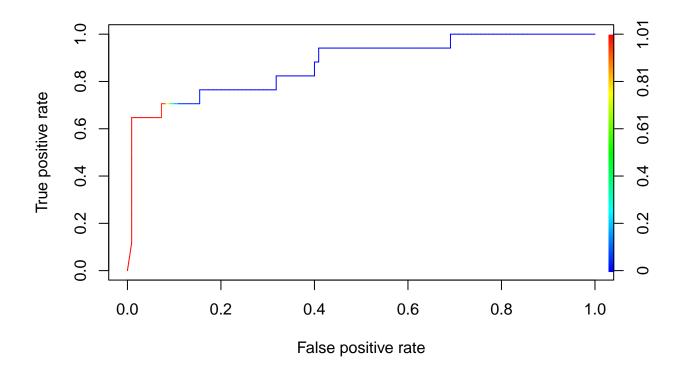
HER2.Final.Status

```
library(dplyr)
brca_data = read.csv("https://raw.githubusercontent.com/mgarbvs/STAT-432-final-project/main/cleaned_brc
# remove X.1 and X columns
brca_data = brca_data %>% select(-c("X.1", "X"))
# store the outcomes
outcomes = brca_data %% select(c("PR.Status", "ER.Status", "HER2.Final.Status", "histological.type"))
# remove the categorical var temporarily
brca_data = brca_data %>% select(-c("PR.Status", "ER.Status", "HER2.Final.Status", "histological.type")
# Create a correlation matrix and select only variables with some correlation to the target
HER2.Final.Status = as.numeric(as.factor(outcomes$HER2.Final.Status))
final_status_data = cbind(HER2.Final.Status, brca_data)
final_status_data[sapply(final_status_data, is.character)] <- lapply(final_status_data[sapply(final_sta
M <- cor(final_status_data)</pre>
correlation_threshold <- 0.193</pre>
significant_correlation <- abs(M["HER2.Final.Status", ]) > correlation_threshold
table(significant_correlation)
## significant_correlation
## FALSE TRUE
## 1886
            51
corr_colnames <- colnames(M)[significant_correlation]</pre>
library(caret)
set.seed(432)
## 75% of the sample size
smp_size <- floor(0.75 * nrow(final_status_data))</pre>
## set the seed to make your partition reproducible
train_ind <- sample(seq_len(nrow(final_status_data)), size = smp_size)</pre>
train_y <- outcomes$HER2.Final.Status[train_ind]</pre>
final_status_train <- cbind(train_y, final_status_data[train_ind, ])</pre>
final_status_train <- final_status_train[, corr_colnames]</pre>
# Training parameters
ctrl <- trainControl(method = "cv",</pre>
                     number = 5,
                      savePredictions = TRUE,
                      classProbs = FALSE)
# Fitting model
```

```
mod_fit <- train(as.factor(HER2.Final.Status) ~ ., data=final_status_train,</pre>
                 method="glm",
                 family="binomial",
                 trControl = ctrl,
                 tuneLength = 5)
## Warning: glm.fit: algorithm did not converge
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type = if (type == :
## prediction from a rank-deficient fit may be misleading
## Warning: glm.fit: algorithm did not converge
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type = if (type == :
## prediction from a rank-deficient fit may be misleading
## Warning: glm.fit: algorithm did not converge
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type = if (type == :
## prediction from a rank-deficient fit may be misleading
## Warning: glm.fit: algorithm did not converge
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type = if (type == :
## prediction from a rank-deficient fit may be misleading
## Warning: glm.fit: algorithm did not converge
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type = if (type == :
## prediction from a rank-deficient fit may be misleading
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
summary(mod_fit)
```

```
##
## Call:
## NULL
##
## Deviance Residuals:
##
        Min
                    1Q
                          Median
                                         3Q
                                                   Max
## -2.24054 -0.00491
                       -0.00009
                                    0.00000
                                               2.80863
##
## Coefficients: (1 not defined because of singularities)
##
                    Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                   -27.17755
                                12.04701
                                          -2.256
                                                    0.0241 *
## rs_MUCL1
                     0.22531
                                 0.20470
                                           1.101
                                                    0.2710
## rs_CEACAM5
                                           2.112
                                                    0.0347 *
                     1.29164
                                 0.61157
                                                    0.6302
## rs_HOXB13
                    -0.11247
                                 0.23362
                                          -0.481
## rs_CEACAM6
                    -0.98037
                                 0.49446
                                          -1.983
                                                    0.0474 *
## rs_CRISP3
                    -0.09467
                                 0.25442
                                          -0.372
                                                    0.7098
## rs_ABCC11
                                           1.826
                                                    0.0679
                     1.16431
                                 0.63779
## rs GRIA2
                                 0.58815
                                          -1.787
                                                    0.0740
                    -1.05074
## rs_NPY1R
                                 0.49945
                                           1.334
                                                    0.1821
                     0.66636
## rs_LRP2
                     0.04876
                                 0.30879
                                           0.158
                                                    0.8745
## rs_KLK10
                     0.36831
                                 0.32701
                                           1.126
                                                    0.2600
## rs_CYP4Z2P
                                          -1.740
                    -0.84002
                                 0.48280
                                                    0.0819
## rs_ABCA12
                     0.01335
                                 0.37746
                                           0.035
                                                    0.9718
## rs_SDR16C5
                     0.04623
                                 0.21389
                                           0.216
                                                    0.8289
## rs_C2orf54
                    -0.61569
                                 0.38931
                                          -1.581
                                                    0.1138
## rs_S100A7A
                    -0.07818
                                 0.49153
                                          -0.159
                                                    0.8736
## rs_SLC9A2
                    -0.01864
                                          -0.062
                                 0.30032
                                                    0.9505
## rs_PPP4R4
                    -0.57069
                                 0.42206
                                          -1.352
                                                    0.1763
## rs_PNMT
                    -0.26830
                                 0.42068
                                          -0.638
                                                    0.5236
                                                    0.0346 *
## rs_PAX7
                                 0.54633
                                           2.113
                     1.15414
## rs_C2CD4A
                    -1.36189
                                 0.60459
                                          -2.253
                                                    0.0243 *
## rs_NPY5R
                    -0.87043
                                 0.51127
                                          -1.702
                                                    0.0887 .
## rs_ONECUT2
                    -0.61152
                                 0.37080
                                          -1.649
                                                    0.0991
## rs_RBM24
                    -0.36237
                                 0.39749
                                          -0.912
                                                    0.3620
## rs AKR1B10
                     0.75353
                                           1.664
                                                    0.0962
                                 0.45295
## rs_TDRD1
                     0.56589
                                 0.45432
                                           1.246
                                                    0.2129
## rs IYD
                     0.74123
                                 0.50757
                                           1.460
                                                    0.1442
## rs_PP14571
                                           0.834
                                                    0.4044
                     0.30492
                                 0.36571
## rs_ABCC12
                                          -1.324
                                                    0.1854
                    -0.71509
                                 0.53994
## rs_SCRG1
                    -1.92828
                                          -2.475
                                                    0.0133 *
                                 0.77897
## rs OSR1
                     2.19440
                                 1.06247
                                           2.065
                                                    0.0389
## rs S100A1
                                           0.274
                     0.09281
                                 0.33881
                                                    0.7841
## rs SERHL2
                    -0.04579
                                 0.36395
                                          -0.126
                                                    0.8999
## rs_NTRK3
                    -0.74699
                                 0.55549
                                          -1.345
                                                    0.1787
## rs_TMEM45B
                     1.16029
                                 0.57894
                                           2.004
                                                    0.0451 *
## cn_DEFB1
                                          -1.996
                    -4.19934
                                 2.10365
                                                    0.0459 *
                                          -1.284
## cn_STAC2
                    -5.35117
                                 4.16914
                                                    0.1993
## cn_PPP1R1B
                     9.97419
                              799.85370
                                           0.012
                                                    0.9901
## cn_PNMT
                     0.86188
                              799.87170
                                           0.001
                                                    0.9991
## cn_IKZF3
                     0.79722
                                 5.99596
                                           0.133
                                                    0.8942
## cn_RUNDC3A
                                 5.27417
                                           1.452
                                                    0.1466
                     7.65588
## cn_GFAP
                    -9.62566
                                 6.03064
                                          -1.596
                                                    0.1105
## cn_KIF18B
                                               NA
                          NA
                                      NA
                                                        NA
## cn CA4
                    -0.31303
                                 1.23958
                                          -0.253
                                                    0.8006
```

```
## pp_EGFR.pY1068 3.33196
                              1.46266 2.278
                                                0.0227 *
## pp_FASN
                   0.02043
                              0.97955 0.021
                                                 0.9834
## pp G6PD
                   0.44436 1.43639 0.309
                                                0.7570
## pp_HER2
                                       1.569 0.1167
                   3.51959
                               2.24336
## pp_HER2.pY1248 -2.62099
                              2.95507 -0.887
                                                 0.3751
## pp_HER3.pY1289 3.44563
                              2.87949 1.197
                                                 0.2315
## pp_p70S6K
                   6.00234
                               2.47261
                                       2.428
                                                0.0152 *
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##
       Null deviance: 347.739 on 379 degrees of freedom
## Residual deviance: 57.459 on 330 degrees of freedom
## AIC: 157.46
##
## Number of Fisher Scoring iterations: 15
Compute and plot the AUC:
library(pROC)
library(ROCR)
test_y <- as.data.frame(outcomes$HER2.Final.Status[-train_ind])</pre>
dim(test_y)
## [1] 127
dim(final_status_data[-train_ind,])
## [1] 127 1937
final_status_test <- cbind(test_y, final_status_data[-train_ind, ])</pre>
test_predict <- predict(mod_fit, final_status_test, type="prob")</pre>
## Warning in predict.lm(object, newdata, se.fit, scale = 1, type = if (type == :
## prediction from a rank-deficient fit may be misleading
roc <- prediction(test_predict[,2], test_y)</pre>
# calculates the ROC curve
perf <- performance(roc, "tpr", "fpr")</pre>
plot(perf,colorize=TRUE)
```



```
# obtaining the AUC
performance(roc, measure = "auc")@y.values[[1]]
```

The AUC for HER2. Final.Status is $0.8743316\,$