Brain Cancer Microarray Data Weighted Gene Co-expression Network Analysis R Tutorial

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CONTENTS

This is stolen from: [https://horvath.genetics.ucla.edu/html/GeneralFramework/GBMTutorialHorvath.pdf]

This document contains function for carrying out the following tasks

A) Assessing scale free topology and choosing the parameters of the adjacency function using the scale free topology criterion (Zhang and Horvath 05)

B) Computing the topological overlap matrix

C) Defining gene modules using clustering procedures

D) Summing up modules by their first principal component (first eigengene)

E) Relating a measure of gene significance to the modules

F) Carrying out a within module analysis (computing intramodular connectivity) and relating intramodular connectivity to gene significance.

G) Miscellaneous other functions, e.g. for computing the cluster coefficient.

Downloading the R software

1) Go to http://www.R-project.org, download R and install it on your computer

After installing R, you need to install several additional R library packages:

To get this tutorial and data files, go to the following webpage [www.genetics.ucla.edu/labs/horvath/CoexpressionNetwork]

Download the zip file containing:

1) R function file: "NetworkFunctions.txt", which contains several R functions needed for Network Analysis.

2) The data file "gbm55old_dchip_14kALL_cox_8000mvgenes2.csv"

3) Of course, this file: "GBMTutorialHorvath.txt"

(I already did this)

```
source("NetworkFunctions.R")
# read in the R libraries
library(MASS) # standard, no need to install
library(class) # standard, no need to install
library(cluster)
#library(impute) # install it for imputing missing value
library(WGCNA)
options(stringsAsFactors = F)
library(gplots)
```

read in the 8000 most varying genes (GBM microarray data)

```
dat0=read.csv("gbm55old_dchip_14kALL_cox_8000mvgenes2.csv")
# this contains information on the genes
datSummary=dat0[,1:9]
```

The following data frame contains the gene expression data: columns are genes, rows are arrays (samples)

```
datExpr = t(dat0[,10:64])

no.samples = dim(datExpr)[[1]]
dim(datExpr)
```

```
## [1]   55 8000
```

```
rm(dat0);gc()
```

```
##           used  (Mb) gc trigger  (Mb) limit (Mb) max used  (Mb)
## Ncells 4757095 254.1    8356247 446.3         NA  6226247 332.6
## Vcells 8734165  66.7   16816668 128.4      65536 12201941  93.1
```

```
datExpr
```

```
##                      [,1]     [,2]     [,3]    [,4]    [,5]    [,6]     [,7]
## ORI_10219_10218  331.0190 471.3640  876.218 3742.99 2691.65 358.920  315.747
## ORI_10735_10730  862.8170 264.1850 1138.460 2527.55 3368.44 357.029  544.752
## ORI_14605_14585  896.0600 314.0140 1049.710 3538.35 3445.14 486.490  448.587
## ORI_14607_14586  643.2750 261.1420 1289.490 3976.18 3960.19 391.273  800.380
## ORI_14609_14587  456.3650 468.9270 1383.260 3698.41 3565.79 605.802  790.509
## ORI_14617_14591  531.2340 734.2690  904.001 3339.98 3671.10 653.363  440.965
## ORI_14623_14594  578.4680 586.9920  825.164 3578.63 3595.32 269.988  247.924
## ORI_14629_14597  418.8100 203.0740 1009.980 3131.25 3652.39 319.313  700.165
## ORI_14631_14598  490.8870 335.7860 1377.520 3378.67 3172.90 470.932  447.323
## ORI_14633_14599  645.2160 614.6880  838.463 4280.59 3111.32 377.979  285.710
## ORI_14635_14600  846.3660 763.1690  788.792 4118.68 4814.80 369.318  263.739
## ORI_14639_14602  436.3040 232.2380  698.596 3454.09 3143.31 259.540  272.367
##                     [,8]      [,9]     [,10]    [,11]    [,12]   [,13]   [,14]
## ORI_10219_10218  364.392  744.8260  138.4810 1093.810  509.148 327.726 261.537
## ORI_10735_10730  580.279  483.6330  290.7970 1363.740  633.009 306.047 232.466
## ORI_14605_14585  500.978  355.6070 1276.0400 1612.660  823.640 380.836 247.219
## ORI_14607_14586  452.348  458.2950 1322.4700 1571.700  656.653 368.211 205.131
## ORI_14609_14587  679.801  718.2670  426.1410 1622.590  776.327 335.108 387.224
## ORI_14617_14591  509.239  872.4860  756.3360 2093.880  373.271 331.067 211.176
## ORI_14623_14594  439.024  437.9780  538.8350 1455.130  757.504 575.916 245.869
## ORI_14629_14597  685.440  662.9480  109.6780 1235.650  984.523 390.780 209.928
## ORI_14631_14598  835.837  411.0400  854.4610 1190.260  853.846 313.077 367.631
## ORI_14633_14599  416.297  368.7650  243.0690 1572.420  817.099 544.840 327.099
## ORI_14635_14600  534.187  255.7190  714.5260 1419.020  707.851 553.217 423.506
## ORI_14639_14602  676.681  209.1430 2349.2800 1440.720  674.525 479.673 217.058
##                    [,15]    [,16]    [,17]    [,18]    [,19]     [,20]   [,21]
## ORI_10219_10218  363.573 1380.350 1579.680 1160.790 114.4510  277.1840 388.862
## ORI_10735_10730  289.616  772.016  772.423 1240.050  83.2546  370.0320 718.211
## ORI_14605_14585  650.931 1137.490 1762.000 1258.800 177.1530  348.1170 576.141
## ORI_14607_14586 1373.830 1336.580 1339.050 1162.160 175.1850  167.5910 636.883
## ORI_14609_14587  509.466 1177.770 1713.780 1319.380 138.3920  348.6080 494.236
## ORI_14617_14591  327.450 1288.070 1362.440 1465.720 159.1400 1683.9000 388.365
```

```
## ORI_14623_14594  412.119 1751.890 2096.160 1111.810 129.2550 1417.7300 512.003
## ORI_14629_14597  459.676 1572.780 1619.290 1578.560 218.4620  444.6500 567.947
## ORI_14631_14598  536.393 1465.160 1515.320 1147.880 135.3980  265.3930 728.999
## ORI_14633_14599  711.087 1424.940 1418.000 1084.710 102.8000  618.3330 415.496
## ORI_14635_14600  536.078 1448.760 1992.270 1003.690 103.2670 1065.6400 772.383
## ORI_14639_14602  404.338 1747.580 1196.980 1374.680 100.1420  707.0570 654.047
##                     [,22]     [,23]    [,24]    [,25]     [,26]   [,27]
## ORI_10219_10218 2670.9800  106.3510 114.7290 1277.570  144.0860 5534.78
## ORI_10735_10730  346.1040   79.6040 100.3200  481.655 1240.1600 7697.81
## ORI_14605_14585 2999.6200  185.5410 141.1960  373.569 2309.9400 5541.85
## ORI_14607_14586 1217.2100   54.8607 369.8310  295.370 4162.7700 6120.63
## ORI_14609_14587  994.1030   62.5677 126.2040  398.185  828.8800 6345.39
## ORI_14617_14591 1013.0900   24.6827 156.5620  162.411  135.8220 5222.99
## ORI_14623_14594  669.9420  483.1500 131.0600  317.084  209.5490 5437.21
## ORI_14629_14597  151.5260  499.5760 103.3540  268.508  657.1250 5985.08
## ORI_14631_14598  686.6650   24.6827 136.7170  353.199 3013.5100 6112.92
## ORI_14633_14599  369.7440  754.5950 109.6150  300.554  207.5600 6406.53
## ORI_14635_14600  224.6730  440.3340 110.7360  252.800  238.7740 5051.56
## ORI_14639_14602  106.2860  597.2520 103.1140  220.109  868.1500 6010.21
##                     [,28]    [,29]   [,30]     [,31]   [,32]   [,33]   [,34]
## ORI_10219_10218  279.4880 1042.050 3676.12 2553.6900 6058.51 174.671 226.898
## ORI_10735_10730  492.9700  560.807 4731.00  396.6010 7204.78 205.674 137.616
## ORI_14605_14585  270.0220  905.329 4538.06 2499.0300 6834.06 164.377 281.594
## ORI_14607_14586 1512.9400 1348.210 5451.53  812.9130 7037.65 153.140 793.866
## ORI_14609_14587  770.7740  970.739 4961.81 1716.8000 6998.14 226.234 122.889
## ORI_14617_14591  111.0420  921.846 5164.45  957.7310 7401.86 134.742 268.342
## ORI_14623_14594  187.2100 1440.520 4795.93  933.9190 6990.27 205.959 314.917
## ORI_14629_14597  280.4410 1441.740 4425.10  694.9310 5380.44 161.353 359.401
## ORI_14631_14598  688.8620 1032.050 4400.46  410.5120 6439.74 227.793 175.228
## ORI_14633_14599  423.7880 1287.360 4254.38  286.1180 6813.63 191.996 369.302
## ORI_14635_14600  220.4840 1279.070 5689.13 1129.9400 7114.61 246.999 206.708
## ORI_14639_14602  105.7360 1423.220 5230.62  260.0080 7348.16 213.869 214.194
##                     [,35]    [,36]    [,37]    [,38]    [,39]   [,40]    [,41]
## ORI_10219_10218   24.6827  24.6827  98.1699 376.2080 140.2840 925.869 1713.850
## ORI_10735_10730   28.2544  24.6827  70.1079 344.8080 210.4380 236.912 1199.010
## ORI_14605_14585   55.3421  24.6827 131.2320 392.6660 236.0140 265.187 1629.540
## ORI_14607_14586 1931.7700 498.9830 357.4180  24.6827 267.9520 335.163 1548.940
## ORI_14609_14587   24.6827  24.6827  99.3085 224.0810 234.9120 309.479 1418.160
## ORI_14617_14591   39.2498  24.6827 135.6160 229.7140 154.7870 364.172 2122.280
## ORI_14623_14594   88.3419  24.6827 115.5200 565.1350 103.8390 563.385 1786.470
## ORI_14629_14597   24.6827  24.6827  56.2438 441.8790 134.5610 272.195  720.340
## ORI_14631_14598   44.3231  24.6827  88.2339 382.5890 164.6130 495.522 1275.490
## ORI_14633_14599  358.6600  59.5174  87.8245 269.2790 244.0220 320.822 1780.120
## ORI_14635_14600   29.6104  24.6827  65.0623 487.9910 198.9050 307.854 1468.240
## ORI_14639_14602   50.4336  24.6827  56.6435 342.0950  86.3718 218.967  882.305
##                    [,42]    [,43]   [,44]    [,45]   [,46]    [,47]   [,48]
## ORI_10219_10218 1298.300  939.666 1558.96 301.0620 568.465 1515.540 388.786
## ORI_10735_10730  941.347 1397.810 1826.08 573.2690 594.565 1134.780 413.004
## ORI_14605_14585 1022.020  998.495 1933.03 241.7450 432.032 1390.820 330.309
## ORI_14607_14586 1086.110  654.454 2159.69 282.5430 571.332 1192.590 270.103
## ORI_14609_14587 1236.040 1046.740 2066.10 399.9120 795.277 1531.580 349.951
## ORI_14617_14591 1701.300 1018.010 1861.75 187.4900 965.064 1805.990 469.472
## ORI_14623_14594 1170.670  979.490 1599.13 211.9780 779.852 1379.140 272.356
## ORI_14629_14597 1404.650  847.616 2313.58 171.0260 486.423 1113.110 249.969
```

```
## ORI_14631_14598  969.660  834.339 2495.03 389.8890 571.427 1388.170 437.428
## ORI_14633_14599 1085.940 1214.970 1861.61 300.4690 731.007 1396.590 475.021
## ORI_14635_14600 1058.600  847.687 1741.51 303.8260 736.379 1877.560 324.268
## ORI_14639_14602 1261.670 1228.640 1592.43 218.9090 403.301 1529.380 295.803
##                    [,49]    [,50]    [,51]   [,52]   [,53]    [,54]    [,55]
## ORI_10219_10218  830.527  648.319  588.511 550.385 408.831 1182.050 1264.340
## ORI_10735_10730 1104.200  749.827 1099.900 432.725 274.430  651.908  906.157
## ORI_14605_14585  917.047  664.228  979.818 608.562 464.294  723.790 1226.030
## ORI_14607_14586  659.552  710.095 1103.890 677.863 606.142  643.096  695.802
## ORI_14609_14587 1088.380  626.403 1047.260 649.911 535.360  640.669  752.321
## ORI_14617_14591 1042.370 1083.470 1683.820 535.045 597.561 1106.170 1182.410
## ORI_14623_14594 1071.370  729.090  933.938 370.320 329.187  924.696 1302.780
## ORI_14629_14597  973.847  355.931  512.781 171.779 208.762  720.742 1305.730
## ORI_14631_14598  909.715  663.012  788.443 507.199 439.041  778.907  921.867
## ORI_14633_14599  968.655  890.927 1501.580 376.978 363.859  655.448 1576.860
## ORI_14635_14600 1020.200  888.283 1383.800 389.969 338.185 1200.670 1470.740
## ORI_14639_14602 1165.790  573.526  899.464 196.504 195.819  899.384  769.495
##                    [,56]    [,57]    [,58]   [,59]   [,60]   [,61]     [,62]
## ORI_10219_10218 2094.040  69.4721  911.959 341.184 383.510 220.989  289.5790
## ORI_10735_10730  679.641 175.7310 1062.310 244.338 706.229 544.310  851.8270
## ORI_14605_14585 1706.770  73.1207  973.284 182.508 710.789 345.986  509.1110
## ORI_14607_14586  749.939  87.9908  777.740 192.102 817.122 289.126  253.9610
## ORI_14609_14587 1009.510 240.0060 1307.740 193.495 905.216 463.218  954.5770
## ORI_14617_14591 1063.200  63.6898  946.041 119.807 543.311 390.866  448.0100
## ORI_14623_14594  801.426  66.0563  667.811 181.590 678.682 316.306  551.5320
## ORI_14629_14597  399.277 193.7310  656.397 194.008 676.973 373.505  611.0150
## ORI_14631_14598  460.822 233.2210 1121.850 288.552 887.092 301.280  782.0410
## ORI_14633_14599  745.091 112.2240  459.337 175.035 905.773 390.431  730.6510
## ORI_14635_14600  958.562 108.4720  446.876 179.587 695.269 359.839  667.7030
## ORI_14639_14602  336.393  97.4416  807.163 190.157 649.855 414.894  131.8870
##                    [,63]    [,64]   [,65]   [,66]   [,67]    [,68]     [,69]
## ORI_10219_10218  839.507  388.225 861.821 344.086 334.111 262.0530  864.3440
## ORI_10735_10730 1124.820  769.581 606.652 211.842 195.712 128.2200  244.8570
## ORI_14605_14585  931.910  386.997 675.623 308.189 280.980 139.2840  364.6360
## ORI_14607_14586  702.072  346.905 735.231 463.550 239.557 327.1200  364.4170
## ORI_14609_14587 1667.080  433.389 487.503 219.467 346.671 122.5990  179.1310
## ORI_14617_14591  695.921  165.158 569.916 233.923 322.933 325.3720  718.9450
## ORI_14623_14594  845.025  393.342 726.983 340.211 233.300 190.2470  518.6280
## ORI_14629_14597 1118.010 1225.900 721.063 301.380 352.059  88.4510  227.7140
## ORI_14631_14598 1129.690  581.926 634.356 249.669 352.515 126.0650  266.8230
## ORI_14633_14599 1423.540 1140.110 719.677 295.705 311.476 175.3240  401.8630
## ORI_14635_14600 1286.310  219.935 624.420 290.464 270.542 150.7400  468.2810
## ORI_14639_14602  438.730 1455.060 609.662 279.507 195.801  90.9524  499.7850
##                    [,70]    [,71]     [,72]   [,73]   [,74]    [,75]   [,76]
## ORI_10219_10218  276.439 1077.400  885.4270 306.801 169.462  187.544 340.969
## ORI_10735_10730  476.980  490.117  657.5910 335.456 206.520  386.609 426.087
## ORI_14605_14585  465.747  891.230  210.1840 346.420 189.332  682.140 343.210
## ORI_14607_14586  200.886  333.235  357.6520 271.854 226.788  544.204 317.892
## ORI_14609_14587  771.959 1414.130  365.3500 365.474 250.050  583.678 338.766
## ORI_14617_14591  401.665  673.151 1118.3100 464.387 128.083  626.447 247.551
## ORI_14623_14594  313.599  352.008  662.8260 328.625 221.239  526.841 305.115
## ORI_14629_14597  439.899  416.257  655.0350 411.768 188.500  633.397 223.856
## ORI_14631_14598  757.545  518.963  279.3070 584.892 215.612  329.261 352.261
## ORI_14633_14599  359.579  452.933  490.1210 333.355 130.506  526.299 397.074
```

```
## ORI_14635_14600  431.118  431.955  614.6660 337.552 137.790 1475.370 332.678
## ORI_14639_14602  121.833  235.736  426.3120 354.588 209.505  734.173 382.932
##                   [,77]    [,78]     [,79]   [,80]   [,81]    [,82]    [,83]
## ORI_10219_10218 191.546 295.6810  679.3250 488.218 337.047  449.709 325.7900
## ORI_10735_10730 234.319 234.6850   85.5583 255.517 326.886  483.760 399.3850
## ORI_14605_14585 255.184 286.8400  142.5440 174.794 289.629  491.380 134.1030
## ORI_14607_14586 271.334 437.5060  451.5860 194.626 254.362  563.316 198.8760
## ORI_14609_14587 333.106 195.3710  195.8990 266.643 507.395  777.269 231.4800
## ORI_14617_14591 322.106 206.1160 1001.1700 360.850 557.670  943.010 328.9020
## ORI_14623_14594 288.392 335.4000  657.8780 326.574 260.705  876.349 146.4200
## ORI_14629_14597 293.895 438.0450  129.2380 201.375 388.351  749.400 104.6870
## ORI_14631_14598 310.437 426.3110  287.9000 277.727 597.929  631.093 246.2790
## ORI_14633_14599 207.784 277.9880  302.0660 213.055 325.328  994.202 422.3720
## ORI_14635_14600 312.974 258.9440  370.0480 279.568 521.674  855.671 254.6830
## ORI_14639_14602 174.532 248.4890  284.2860 258.882 188.779 1264.110 276.1830
##                   [,84]    [,85]     [,86]     [,87]     [,88]    [,89]
## ORI_10219_10218 230.944 1137.070 3091.2500  370.3800 1200.8000 268.4550
## ORI_10735_10730 194.413 1627.860  499.8050  587.7210  663.4580 139.5880
## ORI_14605_14585 329.599  458.327  741.6080  258.2370  354.4900  92.3952
## ORI_14607_14586 231.125  722.279  105.7670  131.9890  885.5790 102.1320
## ORI_14609_14587 219.373  536.582  380.1260  448.0390  280.5330  92.2745
## ORI_14617_14591 287.492 1230.910  754.0620  557.9390 1732.4600 296.4970
## ORI_14623_14594 224.848 1083.130 1896.7300  524.2150 1217.0000 162.2590
## ORI_14629_14597 302.493  437.766  249.6760  393.6150  574.7410  72.8612
## ORI_14631_14598 223.510  519.411  935.9710  146.5170  310.8750  93.6672
## ORI_14633_14599 380.048  769.911 1961.5600  346.8150  642.8420  96.7874
## ORI_14635_14600 313.292  942.498 1974.4700  670.7410  617.8190 138.6150
## ORI_14639_14602 292.050  758.911 1617.4600  175.6970  701.9830 123.6720
##                    [,90]    [,91]    [,92]     [,93]    [,94]   [,95]   [,96]
## ORI_10219_10218 138.4240  773.677 1985.320  856.7730 447.1370 284.593 377.300
## ORI_10735_10730 245.8430  334.807  888.758  266.5780 134.6150 159.056 405.979
## ORI_14605_14585 146.2560  278.415 1469.140  545.5330 221.4230 256.686 456.511
## ORI_14607_14586 203.7250  423.719 1469.970  379.1990 197.1840 223.181 894.474
## ORI_14609_14587 285.7600  352.801 1453.730  653.6990 361.7000 179.650 858.513
## ORI_14617_14591  86.8956  876.659 2152.890 1342.5700 728.1710 223.491 455.522
## ORI_14623_14594  79.8418  601.820 1593.100  825.5860 428.6400 232.076 381.549
## ORI_14629_14597  70.3341  376.314 1219.320  210.4460 315.0060 279.086 826.175
## ORI_14631_14598 201.3230  315.884 1325.430  376.7570 370.4580 302.358 530.704
## ORI_14633_14599  86.7948  476.408 1172.660  890.9250 302.9760 270.296 331.360
## ORI_14635_14600 144.4930  682.218 2346.670  743.9070 214.2140 271.587 284.567
## ORI_14639_14602  44.8645 1127.880 1179.760  236.4270 255.7580 432.290 447.870
##                   [,97]   [,98]    [,99]    [,100]    [,101]    [,102]
## ORI_10219_10218 528.959 402.060 567.0610  111.8210   89.9976  185.3890
## ORI_10735_10730 199.377 514.048 172.1310  275.3200   96.2279  120.8550
## ORI_14605_14585 263.567 444.861 160.9590  128.3760  346.7450  240.0040
## ORI_14607_14586 245.021 273.086 162.3380  389.0870 4821.3000  771.3480
## ORI_14609_14587 159.671 363.510 157.7850  438.8420  199.7580  163.6080
## ORI_14617_14591 160.668 283.137 608.5520   59.6954  223.9570   92.6356
## ORI_14623_14594 245.350 469.459 250.2440   64.0524  142.7450  176.2770
## ORI_14629_14597 258.723 310.718 134.7330  345.4900   80.1227  199.5460
## ORI_14631_14598 177.179 277.577 128.9650  212.9760  175.0690  225.9390
## ORI_14633_14599 276.204 413.571 159.8410  187.4980 2910.0400  375.3330
## ORI_14635_14600 247.801 494.926 285.3100   72.9439  120.3410  193.1790
## ORI_14639_14602 230.039 244.245 153.6550   49.9984   96.6973  199.7410
```

```
##                     [,103]  [,104]  [,105]   [,106]   [,107]   [,108]    [,109]
## ORI_10219_10218   24.6827 449.533 241.067 798.0120  76.3320 254.5010  134.5260
## ORI_10735_10730   24.6827 595.988 695.046 455.5070 153.9880  76.7984  118.8400
## ORI_14605_14585   24.6827 475.436 159.604 510.9520  87.8420  67.8450  494.9280
## ORI_14607_14586 1212.0500 578.781 177.308 718.3160 135.0770 119.4980 7496.1300
## ORI_14609_14587   24.6827 528.491 330.831 968.2100 354.7180  83.2481  240.0890
## ORI_14617_14591   24.6827 395.993 149.568 179.9820  42.1945 205.4330  243.0700
## ORI_14623_14594   24.6827 471.724 141.806 316.0890 103.3250  76.3720   74.1072
## ORI_14629_14597   24.6827 433.844 493.145 214.9520 261.0800 121.3130  100.6240
## ORI_14631_14598   24.6827 759.539 348.148 811.4530 241.5190 104.1220  165.3580
## ORI_14633_14599  237.6850 378.925 202.104 209.5430  98.2013  80.7276 3973.8400
## ORI_14635_14600   24.6827 578.766 158.830 170.8270  80.5197 101.6640   83.8534
## ORI_14639_14602   24.6827 475.043 389.770 110.5730  98.3643  70.6858  119.6010
##                    [,110]   [,111]   [,112]  [,113]  [,114]   [,115]   [,116]
## ORI_10219_10218 153.1510 2104.850 281.4690 503.046 402.945 449.1120  58.4524
## ORI_10735_10730 101.5900 1263.770 237.6410 733.456 813.618  30.6500 187.8110
## ORI_14605_14585 134.4110 1613.960 284.7280 438.094 409.538  53.5866 104.5010
## ORI_14607_14586 122.8820 1676.300 312.1490 441.668 461.789 147.0750 275.9140
## ORI_14609_14587 138.9790 2268.250 158.4200 471.307 483.434 114.8360 473.1980
## ORI_14617_14591 229.2860 2168.470 262.8890 763.869 659.551 568.7900 131.1470
## ORI_14623_14594 236.3290 2539.350 208.3010 611.259 694.241 191.7760 100.4730
## ORI_14629_14597 340.7830 2562.490 180.0020 582.279 571.436  32.5066 138.6150
## ORI_14631_14598 421.2330 2063.740 222.9420 512.545 550.103  63.5194 165.8240
## ORI_14633_14599 164.2980 2017.960 453.6080 780.909 834.549 120.7610 109.5080
## ORI_14635_14600 115.4830 2334.280 273.3430 701.621 677.789 177.0880 107.1490
## ORI_14639_14602 349.2360 1782.050 284.3540 759.201 809.756  70.4561 333.5300
##                  [,117]  [,118]   [,119]   [,120]  [,121]  [,122]   [,123]
## ORI_10219_10218 323.516 138.327 235.2420  95.1438 208.833 572.395  729.134
## ORI_10735_10730 178.544 254.851 337.8150  96.5636 123.254 331.353  646.283
## ORI_14605_14585 232.974 217.908  59.3588  62.0548 293.587 407.318  419.445
## ORI_14607_14586 238.150 208.599 101.1170  56.9680 171.336 513.643  533.076
## ORI_14609_14587 139.051 214.913 139.6450 258.8740 185.827 422.717  399.393
## ORI_14617_14591 283.349 125.673 175.8820  31.5996 230.297 501.687  359.918
## ORI_14623_14594 308.295 207.281 148.3090  96.6888 310.679 614.398  840.373
## ORI_14629_14597 144.538 160.473  66.2750  71.4335 194.470 453.091  647.510
## ORI_14631_14598 171.713 161.204 102.9150 110.1790 229.434 514.206  613.291
## ORI_14633_14599 237.326 225.364 180.8770 108.3930 260.772 473.422  700.585
## ORI_14635_14600 146.727 341.759 289.9860  66.1263 561.698 458.442  829.031
## ORI_14639_14602 169.185 426.470 188.8450  46.7691 273.347 354.408  727.416
##                    [,124]  [,125]   [,126]    [,127]   [,128]   [,129]   [,130]
## ORI_10219_10218  149.2320 458.791 189.3340   24.6827  797.288 182.7130 148.7960
## ORI_10735_10730  135.8010 150.804 202.2110   24.6827  527.643 153.2670 178.9960
## ORI_14605_14585  898.9170 462.494 240.3100   24.6827  975.636 216.0270 286.3330
## ORI_14607_14586 6269.2000 270.197 139.7350 2573.5800  901.895 346.0420 136.0300
## ORI_14609_14587  254.1040 213.102 397.3850   24.6827 1349.510 222.3250 371.1900
## ORI_14617_14591  327.4870 294.988 217.4220   24.6827  998.216 109.0190 181.2800
## ORI_14623_14594   89.8795 370.539 240.0530   24.6827 1369.690 328.5210 292.3430
## ORI_14629_14597   68.8020 389.108 186.7870   24.6827 1421.370 191.9690 218.5020
## ORI_14631_14598  138.2840 281.777 278.6810   24.6827 1288.180 224.9940 200.4800
## ORI_14633_14599 2885.6500 335.443 289.4800  658.0390 1023.140 336.6400 279.1860
## ORI_14635_14600   91.3321 550.483 271.0580   24.6827 1487.230 148.0820 397.9040
## ORI_14639_14602   72.3641 442.609 275.0440   24.6827 1012.690 350.0070 156.6590
##                    [,131]   [,132]  [,133]   [,134]   [,135]   [,136]    [,137]
## ORI_10219_10218 171.9450  61.7342 453.023  84.6835 705.1420  94.4192 1089.3300
```

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## ORI_10735_10730 108.4220 127.0490 184.144  89.1981 285.5990 274.4800  270.4470
## ORI_14605_14585 194.0710  53.7653 398.460  80.2672 301.8250 378.1700  410.0540
## ORI_14607_14586 387.9990  92.5023 305.958  24.6827 201.8460 131.6580  805.2830
## ORI_14609_14587 191.4880 250.4520 369.700 117.9010 345.6540 365.0110  565.4250
## ORI_14617_14591 179.4240  32.5047 318.886  79.0920 490.1660 144.7640 1513.6700
## ORI_14623_14594 283.9940 118.9730 238.347 192.2640 320.5590  92.9992 1377.7000
## ORI_14629_14597 245.5910 199.8070 406.597 107.1400 153.8660 111.0550  649.7540
## ORI_14631_14598 175.6260 154.9680 302.227 170.4140 127.6120 210.5160  451.2820
## ORI_14633_14599 192.6490 143.9120 197.193 101.8130 181.7580 343.4600  679.2160
## ORI_14635_14600 320.8800 196.4050 249.347 151.9970 207.6390 187.5390 1125.4000
## ORI_14639_14602 141.9550  94.7987 194.338 119.7580 131.9940 100.1620 1491.6700
##                  [,138]   [,139]  [,140]  [,141]   [,142]   [,143]  [,144]
## ORI_10219_10218 553.539 101.3480 258.264 440.312 285.9470 121.1800 432.812
## ORI_10735_10730 346.226 157.0450 250.165 356.429  86.2553  59.6491 159.765
## ORI_14605_14585 582.031 183.0760 391.571 375.535 247.5540 148.0110 353.111
## ORI_14607_14586 584.410 169.1360 233.319 261.504 243.7780 163.3160 255.319
## ORI_14609_14587 678.952 132.0410 221.564 294.027 502.7000 197.8420 285.794
## ORI_14617_14591 588.017 138.5420 347.385 307.531 203.7250 163.8990 318.257
## ORI_14623_14594 619.071 146.6810 543.521 373.896 385.2830 173.3290 365.053
## ORI_14629_14597 671.938 203.8420 362.480 384.804 244.0370 167.9320 382.722
## ORI_14631_14598 560.429 166.4280 286.770 407.551 357.6070 162.8490 182.761
## ORI_14633_14599 409.518 137.5090 309.353 436.518 344.7060 130.9530 392.176
## ORI_14635_14600 482.397 126.8430 402.596 419.464 325.8690 140.7570 247.138
## ORI_14639_14602 430.716 174.8710 323.424 465.581 168.6550 148.7650 335.450
##                  [,145]  [,146]   [,147]   [,148]    [,149]  [,150]   [,151]
## ORI_10219_10218 339.276 265.742 251.8140 458.5430   24.6827 334.367 179.0640
## ORI_10735_10730 227.810 222.065 418.7580  82.7695  246.5170 226.285 120.9860
## ORI_14605_14585 339.963 208.508 186.9100 140.0640   88.1568 362.355 177.2810
## ORI_14607_14586 187.469 255.557 125.7320 197.9620  318.5470 288.679 386.6900
## ORI_14609_14587 293.046 226.106 114.3540 142.0250  295.1070 217.779 391.3120
## ORI_14617_14591 146.347 302.911 200.1530 565.9390   24.6827 206.986  70.9383
## ORI_14623_14594 346.893 377.543 256.5960 275.0870   35.5264 592.206 149.3110
## ORI_14629_14597 193.717 286.742  99.3211 138.8650   34.6675 249.404 162.9320
## ORI_14631_14598 281.056 249.259 148.6270  83.1859 1005.0800 302.786 273.2870
## ORI_14633_14599 383.836 344.769 593.7570 142.6020   24.6827 441.313 125.2610
## ORI_14635_14600 298.472 494.697 385.5310 227.8700   33.0641 441.779 116.8830
## ORI_14639_14602 341.546 540.591 270.7140 163.2470  145.9090 439.845  98.9742
##                  [,152]   [,153]   [,154]  [,155]  [,156]  [,157]   [,158]
## ORI_10219_10218 279.826 374.4860 1009.890 454.404 382.250 555.303 396.1290
## ORI_10735_10730 304.406 123.2980  571.154 407.237 246.691 432.444 222.2190
## ORI_14605_14585 345.246 250.4810 1144.510 517.205 326.589 586.358 570.2190
## ORI_14607_14586 378.574 284.9270 1170.340 492.991 326.534 348.692 306.9500
## ORI_14609_14587 257.870 298.9550 1129.810 398.454 171.288 325.450 311.0260
## ORI_14617_14591 367.760 224.2840  861.446 386.705 215.817 418.032 575.2540
## ORI_14623_14594 393.908 399.2850 1219.020 669.754 372.437 718.101 395.6180
## ORI_14629_14597 564.922 322.0200 1374.740 866.874 385.396 472.261 244.7820
## ORI_14631_14598 352.094 270.9650  930.922 562.602 248.344 479.955 247.5780
## ORI_14633_14599 405.423 185.6300 1437.320 448.955 300.552 553.243 395.3080
## ORI_14635_14600 402.478 329.4590 1169.800 794.112 299.059 540.214 576.8000
## ORI_14639_14602 376.862 345.7830  908.814 615.310 265.276 504.803 586.4250
##                   [,159]   [,160]   [,161]  [,162]  [,163]   [,164]  [,165]
## ORI_10219_10218 199.4550 178.5360 318.8510 265.374 2834.05 1460.450 474.567
## ORI_10735_10730 145.8590 226.2400  99.9706 280.711 1817.31  812.019 241.368
## ORI_14605_14585 178.2400 290.3030 221.6430 547.215 3151.27 1644.050 451.028
```

```
## ORI_14607_14586 217.7790 215.0150 221.0950 205.022 3118.71 1668.650 544.746
## ORI_14609_14587 328.8760 354.7120 256.3600 233.082 2792.13 1985.700 486.489
## ORI_14617_14591 190.5190 142.8700 186.8940 246.892 2530.63 1412.310 316.635
## ORI_14623_14594 233.9000 334.1140 434.9390 296.954 3476.71 1734.780 528.322
## ORI_14629_14597 161.1940 303.5720 240.4840 204.707 3167.05 1783.740 622.998
## ORI_14631_14598 144.5730 276.4390 244.6250 237.647 3102.22 1589.070 453.864
## ORI_14633_14599 335.7120 257.2530 290.9450 238.794 2652.01 1734.760 332.670
## ORI_14635_14600 282.5040 396.7380 237.5950 247.046 2936.41 1943.950 464.849
## ORI_14639_14602 137.1280 228.6510 289.6840 128.649 2831.97 1245.170 347.719
##                   [,166]  [,167]   [,168]  [,169]   [,170]   [,171]  [,172]
## ORI_10219_10218 204.2620 3026.82 1259.370 328.379 193.8320 1295.030 5143.69
## ORI_10735_10730 222.1200 2057.69  581.217 284.230 151.8340  687.259 4790.04
## ORI_14605_14585 299.1330 2932.38 1054.920 326.433 248.2130  941.030 5737.99
## ORI_14607_14586 283.0190 2480.48 1062.810 297.890 180.7490  783.238 5541.94
## ORI_14609_14587 353.1930 2908.82 1469.280 180.575 297.2520  438.318 5215.81
## ORI_14617_14591 124.3170 2314.14  889.804 193.325 195.7350  673.246 4852.54
## ORI_14623_14594 301.4620 3267.51 1476.430 387.628 346.9400 1201.680 5684.47
## ORI_14629_14597 144.9770 2795.61 1141.780 390.563 337.7050 1068.210 5178.09
## ORI_14631_14598 227.9390 2814.48 1408.840 334.450 320.2450  757.393 5587.59
## ORI_14633_14599 290.2170 3180.88 1221.290 376.610 327.5280 1060.500 4825.37
## ORI_14635_14600 394.5210 2901.91 1254.980 309.104 425.7300  875.339 4545.81
## ORI_14639_14602 191.3400 2678.07 1049.520 238.482 363.0770  849.456 4572.92
##                   [,173]   [,174]  [,175]   [,176]  [,177]  [,178]   [,179]
## ORI_10219_10218 167.8410 247.1370 276.010  854.190 228.978 690.065 457.4610
## ORI_10735_10730 125.8260 126.2010 129.994  504.410 217.885 393.377 234.3530
## ORI_14605_14585 217.9340 304.8190 278.209  618.233 345.391 614.403 389.7360
## ORI_14607_14586 178.7420 345.2470 236.369  508.685 282.212 348.958 378.9120
## ORI_14609_14587 281.5040 369.9120 201.849  441.567 320.289 556.033 461.2050
## ORI_14617_14591 212.6850 265.3020 243.734  356.198 292.461 884.966 309.9350
## ORI_14623_14594 313.6310 262.9610 325.426  602.474 419.385 517.377 495.7320
## ORI_14629_14597 245.7250 265.9070 161.970  576.726 400.965 268.820 610.6350
## ORI_14631_14598 252.5810 294.4670 259.527  368.715 313.456 408.665 463.4060
## ORI_14633_14599 205.8140 200.3170 286.833  750.526 353.877 706.596 449.9780
## ORI_14635_14600 241.9020 269.9710 338.475  571.628 355.784 681.435 520.9950
## ORI_14639_14602 225.2670 220.4650 231.568  595.202 282.188 192.262 390.7940
##                   [,180]   [,181]  [,182]  [,183]  [,184]  [,185]   [,186]
## ORI_10219_10218 229.5200  921.424 248.470 269.944 413.601 3148.25 101.2920
## ORI_10735_10730 111.8310  392.372 231.589 217.283 672.431 1722.27 200.3040
## ORI_14605_14585 210.9000  948.689 239.316 189.598 516.934 3406.61 236.1260
## ORI_14607_14586 116.7520  824.294 210.526 229.195 452.776 2528.10  89.1726
## ORI_14609_14587 233.8480  959.072 234.657 160.305 394.993 2764.30 221.3550
## ORI_14617_14591 175.4660  870.418 225.000 145.970 454.133 2816.69 117.4610
## ORI_14623_14594 222.6710 1145.930 240.099 296.149 509.172 3796.93 297.3320
## ORI_14629_14597 264.6120  973.046 318.070 389.085 590.788 3437.62 152.3610
## ORI_14631_14598 383.3780  976.584 301.786 255.495 474.574 2844.19 178.3370
## ORI_14633_14599  92.6102  711.568 311.485 351.915 476.572 2966.02 191.6650
## ORI_14635_14600 172.0660  936.168 279.101 208.966 539.219 3217.57 334.3220
## ORI_14639_14602  83.9128  706.025 386.687 225.756 511.015 3159.10 356.7490
##                  [,187]    [,188]  [,189]  [,190]   [,191]   [,192]  [,193]
## ORI_10219_10218 389.534  203.8330 154.662 477.528 198.7040 366.5650 349.790
## ORI_10735_10730 288.831 1426.5500 132.624 230.885 217.0720 183.4670 587.008
## ORI_14605_14585 344.573  997.9320 166.752 275.386 425.1370 272.5090 427.811
## ORI_14607_14586 259.084  505.1290 510.591 186.300 211.0420 111.7550 423.118
## ORI_14609_14587 232.824 2324.0100 132.344 202.453 228.4260 575.6300 486.015
```

```
## ORI_14617_14591 195.195  986.4310 125.710 189.295  24.6827 216.1310 489.148
## ORI_14623_14594 331.048 1138.5000 228.999 283.415 375.4360 254.4320 422.843
## ORI_14629_14597 379.074   93.1267 173.173 400.925 230.8650 271.3360 362.294
## ORI_14631_14598 320.551  181.7280 142.730 246.482 330.4190 218.0930 499.604
## ORI_14633_14599 422.700 1766.5400 322.722 309.482 444.2800 217.3720 650.235
## ORI_14635_14600 379.260 1863.2700 172.806 361.990 190.4700  85.4630 476.156
## ORI_14639_14602 443.070  881.9290 173.864 325.999 175.3480 150.8410 356.178
##                   [,194]  [,195]  [,196]   [,197]  [,198]   [,199]   [,200]
## ORI_10219_10218  773.168 416.256 4456.62 121.5180 415.045 159.5840  74.4183
## ORI_10735_10730  484.977 217.829 3068.78 132.2070 361.049 221.2300  79.5939
## ORI_14605_14585  967.956 390.711 3623.43 199.3300 384.588 204.2390  99.0146
## ORI_14607_14586  769.543 527.322 3682.48 186.2970 236.278  24.6827 413.8440
## ORI_14609_14587 1140.160 375.471 3994.15 332.2860 419.035 116.9390  68.9169
## ORI_14617_14591  828.240 443.436 3572.13 130.9620 435.357 141.5230  67.7353
## ORI_14623_14594 1102.640 438.668 3120.15 261.8120 443.494 189.6690 106.2430
## ORI_14629_14597 1250.770 469.525 3969.90 208.5140 305.139 226.4180  62.8770
## ORI_14631_14598  973.430 359.247 3238.04 207.5900 407.087 155.3490  60.1338
## ORI_14633_14599  939.489 462.693 4611.64 175.9710 521.719 148.8530 196.0180
## ORI_14635_14600 1325.100 395.658 3109.73 168.0320 619.786 155.9860  72.0433
## ORI_14639_14602 1034.980 399.504 3257.80 148.6310 368.399 187.9700  62.0683
##                   [,201]  [,202]  [,203]  [,204]   [,205]   [,206]   [,207]
## ORI_10219_10218 120.0760 403.420 267.915 301.270 291.8220 179.1640 104.2670
## ORI_10735_10730 115.2900 149.742 271.669 235.507 113.4050  89.3468 207.3010
## ORI_14605_14585 173.4230 291.477 329.610 299.211 192.4050 240.8770 285.2270
## ORI_14607_14586 248.4900 308.527 207.608 269.451 304.1660 497.7890  92.7073
## ORI_14609_14587 171.4500 242.003 236.999 150.888 262.2460 216.7550 630.1820
## ORI_14617_14591 117.6020 191.947 211.747 353.352 249.5580 147.9080 229.8050
## ORI_14623_14594 160.8420 439.805 226.517 409.108 267.2200 147.1130 439.5000
## ORI_14629_14597 190.7260 489.382 451.292 153.969 310.9860 178.6700 206.7710
## ORI_14631_14598 155.1990 284.236 235.558 301.904 326.1350 292.3590 346.0730
## ORI_14633_14599 181.8910 353.110 386.367 232.881 426.6610 214.4370 562.1930
## ORI_14635_14600 276.4870 384.726 571.260 298.697 295.4490 130.3890 594.3110
## ORI_14639_14602 260.8270 328.736 607.779 251.058 203.5930 106.1400 329.6100
##                   [,208]  [,209]  [,210]  [,211]    [,212]  [,213]    [,214]
## ORI_10219_10218  903.539 303.104 247.257 803.448  596.9180 463.885   70.7000
## ORI_10735_10730  388.905 226.013 155.375 405.230  267.1910 440.105   72.1136
## ORI_14605_14585  668.217 148.843 335.277 798.426  559.4180 611.632  137.0050
## ORI_14607_14586  412.645 143.788 203.118 540.136  689.8950 616.399  927.0660
## ORI_14609_14587  472.004 169.413 265.032 477.249  818.1650 502.214   62.4117
## ORI_14617_14591  719.518 176.527 221.170 656.191  475.6900 535.807   66.9541
## ORI_14623_14594 1185.810 305.066 411.445 814.336  687.5910 483.752   76.1758
## ORI_14629_14597  318.912 334.781 373.624 714.413  806.8420 791.430   67.7735
## ORI_14631_14598  504.051 267.984 318.066 318.020  628.8870 422.121   89.6613
## ORI_14633_14599  842.259 273.903 206.516 670.421  656.8800 559.761  250.1470
## ORI_14635_14600  880.059 353.183 310.408 517.753  780.5140 485.561  106.4030
## ORI_14639_14602  580.107 289.808 228.492 542.325  454.2060 583.732   78.0293
##                  [,215]  [,216]  [,217]  [,218]   [,219]   [,220]    [,221]
## ORI_10219_10218 724.894 265.479 333.348 330.112  83.9367 351.2970  883.3890
## ORI_10735_10730 510.051 203.071 191.696 185.062 140.6970 198.8280  273.9390
## ORI_14605_14585 533.528 194.596 261.300 269.840 155.1020 171.8550 1262.2300
## ORI_14607_14586 315.505 420.455 225.709 426.140  61.9122  94.0404  213.7100
## ORI_14609_14587 300.535 278.698 274.618 294.934 224.9680  91.4791  581.9840
## ORI_14617_14591 247.286 379.637 130.334 310.252 131.0130  57.4765   55.3315
## ORI_14623_14594 438.028 326.472 267.021 543.981 224.2010 177.2160  257.1440
```

```
## ORI_14629_14597 417.677 291.558 363.353 498.318 228.9680 173.8650  263.5850
## ORI_14631_14598 351.256 293.508 278.102 301.451 147.7440 136.1770  500.7990
## ORI_14633_14599 418.772 219.818 366.495 328.291 252.0050  93.3894  749.2590
## ORI_14635_14600 499.494 278.156 288.865 338.881 379.7470 169.4610   69.8812
## ORI_14639_14602 503.561 270.931 232.183 316.802 367.0310 270.4460  143.9800
##                  [,222]   [,223]   [,224]   [,225]   [,226]   [,227]   [,228]
## ORI_10219_10218 321.098  203.828  68.2190  85.7080 115.1530 319.2020  173.715
## ORI_10735_10730 272.161  164.037  58.4167 245.3830  94.5399 290.3450  361.387
## ORI_14605_14585 347.893  198.339  82.1963 207.1480 115.3800 382.6200  389.656
## ORI_14607_14586 179.879 1029.120 584.2130 272.8980 609.5190 438.4300  532.777
## ORI_14609_14587 192.235  151.914  46.6359 310.3090 100.8540 407.1020  541.135
## ORI_14617_14591 169.237  109.658  32.9630 214.9540  78.8319 453.0300  410.313
## ORI_14623_14594 429.364  163.391  47.3443 171.6360 154.6060 467.9920  451.361
## ORI_14629_14597 383.780  148.876  45.6933 234.5280 146.6770 486.2950  447.991
## ORI_14631_14598 291.983  150.783  53.6175 308.8740 131.0870 527.5980  415.483
## ORI_14633_14599 315.304  365.961 282.0220 169.5370 353.3640 532.7440  559.957
## ORI_14635_14600 396.542  158.354  53.9971 132.6750 131.6180 897.7890  467.552
## ORI_14639_14602 381.740  164.553  49.2224 145.6940 125.3110 694.0370  602.262
##                  [,229]    [,230]  [,231]    [,232]   [,233]   [,234]  [,235]
## ORI_10219_10218 405.9940   59.1597 673.971   74.6460  925.744 224.4290 288.839
## ORI_10735_10730  79.8806  136.0040 534.264  230.0120 2021.600  91.8534 267.642
## ORI_14605_14585  34.7683  124.7950 579.754  191.6630 1192.110 222.9180 214.635
## ORI_14607_14586  62.5975  379.1660 338.610 1142.0300 2623.720 245.2420 316.427
## ORI_14609_14587  47.2178   66.8704 300.845  113.7070 2211.660 403.6950 222.544
## ORI_14617_14591 233.6510   43.5912 320.918   79.1345  750.079 314.5220 243.892
## ORI_14623_14594 105.2280   72.8474 361.815   81.1364  725.445 348.2490 450.404
## ORI_14629_14597  70.4305   76.2611 569.961  128.1330 1062.580 442.3960 338.518
## ORI_14631_14598  47.6696  137.5470 420.332  242.7470 1388.500 363.7710 327.935
## ORI_14633_14599  80.1707   69.0435 380.784  150.5140 1438.940 284.3690 390.041
## ORI_14635_14600 103.4360   63.6967 325.189  134.2040  926.538 346.7990 553.950
## ORI_14639_14602  61.9750  115.8520 499.024  266.2850 1181.810 341.4990 403.570
##                  [,236]   [,237]    [,238]  [,239]   [,240]  [,241]   [,242]
## ORI_10219_10218 387.987 252.9730  305.6880 364.380 103.0890 5398.88 164.7830
## ORI_10735_10730 512.916 105.5930  289.6270 169.925 109.0300 4112.92 116.4370
## ORI_14605_14585 458.121 257.2790  800.1940 385.551 162.5280 5081.26 165.0620
## ORI_14607_14586 282.256 223.5140  230.8890 259.293 241.7020 4260.75 162.3760
## ORI_14609_14587 440.493 297.2900  723.1080 344.514 252.6390 4420.76 280.8620
## ORI_14617_14591 170.961 177.1060  496.2360 301.625  74.1536 4792.82 160.7100
## ORI_14623_14594 432.963 275.3300  645.6000 352.799  98.5818 5744.38 218.2830
## ORI_14629_14597 464.331 285.3530  387.3870 249.196  87.3994 5339.45 302.9490
## ORI_14631_14598 479.814 340.1610  365.9370 402.540 179.8720 5170.19 235.5630
## ORI_14633_14599 428.325 229.7240  652.0800 346.823 146.9090 5133.31 195.4030
## ORI_14635_14600 489.873 220.1720  741.7460 337.128 178.9980 4670.14 254.9190
## ORI_14639_14602 533.393 204.4990  408.4200 341.289  77.3299 5298.11 231.5290
##                  [,243]  [,244]  [,245]  [,246]   [,247]    [,248]   [,249]
## ORI_10219_10218 142.1840 165.251 428.279 309.620 1044.760  208.0290  885.760
## ORI_10735_10730 210.4900 324.609 263.813 257.400  646.755  731.1220  474.837
## ORI_14605_14585 215.0460 192.121 383.276 500.551 1395.280  428.5360 1035.770
## ORI_14607_14586 128.1060 154.120 322.716 421.319 1861.790  284.5230  829.106
## ORI_14609_14587 337.5420 362.465 342.351 605.381 1397.160  707.5550 1166.930
## ORI_14617_14591  94.2275 151.896 240.347 599.997 1285.110  462.8890  762.939
## ORI_14623_14594 303.1570 126.395 335.332 863.582 1784.170  579.8570 1292.760
## ORI_14629_14597 330.3800 203.959 359.214 622.054 1900.890 1033.8000 1138.830
## ORI_14631_14598 301.4930 283.845 327.522 636.034 1364.360  412.3500 1008.320
```

```
## ORI_14633_14599 178.2630 160.660 434.245 525.417 1405.400  401.3420 1000.200
## ORI_14635_14600 333.0700 153.283 503.280 757.830 1671.520  721.0160 1278.700
## ORI_14639_14602 238.8400 179.847 411.246 507.246 1130.630  351.4840  863.808
##                   [,250]    [,251]  [,252]   [,253]  [,254]  [,255]   [,256]
## ORI_10219_10218 1935.640  464.6320 485.407  991.640 379.772 3039.63 311.0620
## ORI_10735_10730  996.576  274.1000 279.538  686.859 232.445 2730.49 145.0260
## ORI_14605_14585 2202.410  645.0180 555.360  824.964 368.186 3426.91 200.8440
## ORI_14607_14586 1742.110  599.9250 487.956  674.831 375.797 3875.56 254.2690
## ORI_14609_14587 2201.610  798.3590 539.935  902.361 454.200 3400.93 177.6030
## ORI_14617_14591 1911.440  608.8590 437.519  727.639 292.352 2274.54 143.6090
## ORI_14623_14594 2650.670  748.3520 674.798  845.766 324.216 2540.81 179.5170
## ORI_14629_14597 2634.610  775.1260 577.240  873.226 367.104 2675.07 349.6960
## ORI_14631_14598 2171.710  760.6030 455.576  522.748 391.870 3130.56 164.6920
## ORI_14633_14599 1820.090  528.1830 421.825  993.059 382.783 3125.19 455.2330
## ORI_14635_14600 2341.730  808.1240 672.668  917.075 471.333 2520.10 281.4770
## ORI_14639_14602 1870.540  590.7000 521.998  639.651 347.459 2483.20 228.2680
##                   [,257]   [,258]  [,259]  [,260]  [,261]   [,262]   [,263]
## ORI_10219_10218 140.2140 301.6670 246.690 303.047 467.962 1384.040 223.0600
## ORI_10735_10730 132.5240 202.4680 320.818 269.959 503.756  518.955  78.3589
## ORI_14605_14585 187.0850 393.4400 362.486 323.158 356.591  602.381 313.4630
## ORI_14607_14586 127.7150 408.8830 316.074 327.220 241.414  800.384 149.9460
## ORI_14609_14587 185.7030 404.8950 204.103 422.564 357.843  627.934 202.5120
## ORI_14617_14591 155.3420 308.4570 167.202 316.630 331.088  504.455 352.9250
## ORI_14623_14594 348.0420 552.7110 304.036 423.593 276.824  810.597 209.3430
## ORI_14629_14597 143.8140 447.8000 378.179 368.097 494.672  636.173 108.9760
## ORI_14631_14598 180.5270 410.9650 332.183 235.287 395.389  625.776 152.5370
## ORI_14633_14599 324.9940 356.3340 334.525 513.909 389.236  676.370 217.5130
## ORI_14635_14600 162.6750 505.5370 329.057 443.800 377.585  548.539 247.9440
## ORI_14639_14602 183.0260 433.4220 345.786 579.001 305.973  408.710 115.4280
##                    [,264]  [,265]    [,266]   [,267]   [,268]  [,269]   [,270]
## ORI_10219_10218  102.3790 349.248 2341.9100  842.564  488.664 449.874 126.3050
## ORI_10735_10730  121.3860 401.809  660.8260  779.736  233.165 303.872 288.8440
## ORI_14605_14585  563.5180 453.516  649.4010  648.243  402.225 379.894 222.8940
## ORI_14607_14586 9082.2300 356.455  932.3970  987.259  508.855 265.331 140.8050
## ORI_14609_14587  527.6330 367.471  607.1380  830.138  325.745 337.630 257.8410
## ORI_14617_14591  436.2900 357.018 2390.9000  623.933  913.621 414.348 276.9260
## ORI_14623_14594  103.4170 526.437 1329.6700  773.980  935.995 419.744 299.1120
## ORI_14629_14597  140.7490 306.302  476.6560  684.438  336.088 323.542 146.2140
## ORI_14631_14598  405.6930 496.577  486.5060 1004.660  310.171 324.014 156.1680
## ORI_14633_14599 5232.2600 505.125 1063.8000  961.958  398.548 367.944 343.3300
## ORI_14635_14600   67.6865 427.760  840.4090 1020.640  434.440 379.539 639.9480
## ORI_14639_14602   30.8118 470.104  541.8250  921.463  328.964 331.679 295.9950
##                   [,271]   [,272]   [,273]  [,274]   [,275]   [,276]   [,277]
## ORI_10219_10218 316.5660 203.7390 237.4630 360.897 158.6810  767.631 153.5500
## ORI_10735_10730 226.3800 128.4420 483.5150 380.685 220.5630 1681.280 143.7020
## ORI_14605_14585 262.5080 168.2020 331.8200 335.120 147.3200  870.678 152.7950
## ORI_14607_14586 163.0160 176.5210 229.9910 196.511 105.0530  871.719 237.6260
## ORI_14609_14587 347.7630 311.4650 704.3780 462.261 286.3120 1514.810 288.4830
## ORI_14617_14591 207.9910 248.4880 482.9090 202.265 192.8080  780.163 229.4440
## ORI_14623_14594 331.0520 244.1250 354.6340 229.773 109.9680  579.984 268.9500
## ORI_14629_14597 258.3000 151.5220 366.1280 236.505 236.5250  921.690 261.2940
## ORI_14631_14598 346.7550 110.2900 469.6740 336.425 267.0630 1002.000 209.9770
## ORI_14633_14599 251.5430 139.8870 364.6460 253.247 297.3460 1008.690 290.6220
## ORI_14635_14600 312.4910 331.1180 422.5710 156.886 160.6340  755.434 265.1320
```

```
## ORI_14639_14602 339.5580 111.6710 385.0500 234.162 228.1430 1035.200 218.2500
##                   [,278]   [,279]  [,280]   [,281]  [,282]  [,283]   [,284]
## ORI_10219_10218 166.8860 118.7540 265.665 211.1420 468.686 200.214  560.984
## ORI_10735_10730 255.1090 154.1930 291.981 185.5970 369.053 217.428  609.935
## ORI_14605_14585 186.3630 251.1180 270.686 145.8400 414.343 301.084  808.110
## ORI_14607_14586 141.8840 198.3320 233.577 147.6200 379.188 214.445  456.609
## ORI_14609_14587 362.8760 333.4890 209.883 308.0360 268.584 153.248  524.787
## ORI_14617_14591 114.0610 220.9240 210.754 147.2260 244.902 225.876  507.453
## ORI_14623_14594 143.9020 284.0710 287.921 133.4790 762.240 430.114  711.165
## ORI_14629_14597 184.4920 366.1400 270.208 254.6280 691.343 358.990  597.364
## ORI_14631_14598 222.9650 236.4020 212.784 205.5200 431.526 277.853  628.891
## ORI_14633_14599 181.2750 249.3770 553.472 296.5090 500.272 322.559  744.881
## ORI_14635_14600 235.5180 331.2340 345.754 238.5160 528.764 305.757  662.956
## ORI_14639_14602 335.6780 258.1840 238.628 166.9370 527.752 311.532  639.511
##                   [,285]   [,286]   [,287]  [,288]    [,289]   [,290]   [,291]
## ORI_10219_10218  811.015 168.0640 142.3630 310.807  343.0190 156.0590 277.9380
## ORI_10735_10730  540.553 159.6410 172.4450 191.711  141.3270 122.8090 169.4770
## ORI_14605_14585  874.422 265.2120 208.0770 290.856  245.9750 166.3280 234.7850
## ORI_14607_14586  439.311 229.0660 375.0470 249.518 1157.1200 332.8570 309.6910
## ORI_14609_14587  670.733 374.9250 281.9150 216.582  469.2470 398.5960 275.5540
## ORI_14617_14591  821.633 164.1880  90.7155 150.442  182.7720 204.0550 193.4260
## ORI_14623_14594 1091.550 183.6240  87.7288 317.897  190.9830 327.1480 331.5820
## ORI_14629_14597  760.905 360.7190 172.4690 359.992  177.7720 306.3080 289.4960
## ORI_14631_14598  815.641 291.7790 362.6850 277.937  335.6370 259.9810 274.2420
## ORI_14633_14599  769.148 248.9460  68.3376 249.015  287.5690 180.8340 306.0600
## ORI_14635_14600  941.704 354.7170  42.6776 290.614  214.4490 137.6120 307.3300
## ORI_14639_14602  692.149 289.1500  35.2370 277.757  154.7740  77.7040 369.4380
##                   [,292]  [,293]   [,294]  [,295]  [,296]   [,297]   [,298]
## ORI_10219_10218 657.2180 483.230 467.8140 585.125 480.938 164.5120  640.535
## ORI_10735_10730 368.5530 313.661 139.1150 399.989 488.720 281.2950  218.252
## ORI_14605_14585 618.4170 502.851 348.6400 589.672 576.511 182.7360  381.389
## ORI_14607_14586 184.8910 532.261 254.3070 449.075 488.670 123.5950  638.254
## ORI_14609_14587 478.8970 678.013 761.3400 386.712 428.833 184.1450  334.640
## ORI_14617_14591 285.6510 454.667 207.0610 357.586 534.363 177.6050 1132.040
## ORI_14623_14594 379.2350 790.058 473.2350 753.620 727.441 182.7290 1032.060
## ORI_14629_14597 350.9920 748.870 363.7340 590.848 422.206  90.3422  340.112
## ORI_14631_14598 413.6250 567.329 286.1450 445.475 539.228 156.8150  336.010
## ORI_14633_14599 309.4400 352.934 176.1180 515.646 546.602 205.1360  426.910
## ORI_14635_14600 230.4810 533.225 283.3910 613.339 605.385 208.7290  449.726
## ORI_14639_14602 192.3260 509.532 182.0130 530.547 571.113 509.7090  337.103
##                   [,299]   [,300]  [,301]  [,302]  [,303]   [,304]    [,305]
## ORI_10219_10218  539.047  617.343 886.410 421.632 173.835  828.922 2163.4000
## ORI_10735_10730  155.186  504.970 522.813 456.756 392.650  914.651   35.4015
## ORI_14605_14585  273.987  515.873 783.242 428.033 259.511 1053.650   97.7552
## ORI_14607_14586  542.177  486.480 500.424 381.335 261.956  324.879  645.6510
## ORI_14609_14587  280.184  473.393 557.607 506.802 244.248  591.714  248.8190
## ORI_14617_14591  942.928  543.991 686.000 306.895 143.360  466.373 2120.1300
## ORI_14623_14594  848.911  605.631 643.334 366.812 229.217  459.707  941.0250
## ORI_14629_14597  302.780  428.833 679.262 323.849 331.766  429.854  119.8110
## ORI_14631_14598  268.816  459.321 493.540 432.163 269.101  509.071  216.6560
## ORI_14633_14599  328.488  621.598 613.879 365.280 253.950  619.172  408.3230
## ORI_14635_14600  367.443  556.833 775.121 312.395 254.872  658.275  958.9270
## ORI_14639_14602  235.658  513.273 697.988 309.998 333.817  405.160  282.9970
##                  [,306]   [,307]  [,308]   [,309]  [,310]   [,311]   [,312]
```

```
## ORI_10219_10218 220.289 1603.230 390.319  642.336 315.921 1659.900  994.715
## ORI_10735_10730 220.129 2523.490 242.927  538.433 445.178 1413.120  696.120
## ORI_14605_14585 229.256 3064.540 177.404  614.342 351.522 1580.090  768.829
## ORI_14607_14586 189.865 3720.710 232.751  562.955 346.708 1377.700  668.378
## ORI_14609_14587 167.312 2780.500 236.850  506.742 361.621 1488.190 1076.770
## ORI_14617_14591 144.535 1411.450 609.153  500.754 422.887 1938.660 1072.070
## ORI_14623_14594 188.496 1283.590 382.140  708.485 282.305 1440.990  712.931
## ORI_14629_14597 211.746 5244.270 312.337  486.940 384.657 1234.310  841.635
## ORI_14631_14598 206.383 2538.120 217.327  556.582 435.759 1595.400  981.286
## ORI_14633_14599 220.562 3008.710 139.451  545.211 379.238 2097.360 1301.360
## ORI_14635_14600 203.018 1998.320 253.467  657.521 293.869 1440.120 1080.290
## ORI_14639_14602 180.411 2220.160 224.278  612.862 319.150 1397.910  853.075
##                   [,313]  [,314]    [,315]   [,316]   [,317]   [,318]  [,319]
## ORI_10219_10218 103.6180 328.890 1292.3000  903.613  426.406 1689.810 480.392
## ORI_10735_10730 159.2000 462.939  193.3330 1466.440 1095.690  407.164 383.596
## ORI_14605_14585 243.6520 538.845 1253.3900 1381.840 1434.360 1389.020 348.899
## ORI_14607_14586  92.7646 414.490  427.8760  893.287 1102.970  332.397 161.349
## ORI_14609_14587 347.7410 545.670  544.7480 1446.860 1703.510  552.893 387.889
## ORI_14617_14591 168.0640 443.902  869.3660 2205.140 1056.460  677.712 549.369
## ORI_14623_14594 216.1900 272.426  501.8560 1592.610  394.453  506.895 391.274
## ORI_14629_14597 340.8290 536.117  365.8410 1446.450  965.880  478.788 293.133
## ORI_14631_14598 203.4320 510.497  250.3120 2451.860 1520.970  301.933 366.904
## ORI_14633_14599 264.4380 470.141  273.0280 1171.270  614.755  278.145 583.021
## ORI_14635_14600 320.6670 515.819  595.3050 1274.030 1106.420  652.030 474.252
## ORI_14639_14602 204.6030 273.048  291.1130 1017.120  629.045  336.534 244.768
##                   [,320]    [,321]  [,322]  [,323]  [,324]  [,325]    [,326]
## ORI_10219_10218 185.8780  633.4670 154.761 506.579 193.953 242.817   40.1478
## ORI_10735_10730  95.4870  409.1410 361.169 230.672 198.130 339.169 1003.6400
## ORI_14605_14585 135.1040  891.2400 274.694 328.561 220.131 277.705  112.5230
## ORI_14607_14586 144.7890  642.4520 299.757 261.243 350.084 318.356  483.3050
## ORI_14609_14587 343.3120  623.3450 363.974 221.089 373.931 423.392 1146.9000
## ORI_14617_14591 237.8890  433.2910 240.989 229.595 165.233 327.741   64.7969
## ORI_14623_14594 104.2080  338.1020 208.153 226.412 180.789 337.736   55.7637
## ORI_14629_14597 272.5250 1607.4200 302.937 307.105 160.451 182.321  498.7510
## ORI_14631_14598 275.7880  328.5590 302.150 210.194 348.911 336.540 1100.8700
## ORI_14633_14599  81.8283  118.2900 320.073 337.581 287.483 260.355  197.8280
## ORI_14635_14600 112.5510  435.7400 308.395 299.147 249.387 323.333   84.1072
## ORI_14639_14602  77.1307   69.7926 253.747 360.422 121.876 188.343   65.4797
##                   [,327]  [,328]   [,329]   [,330]  [,331]   [,332]  [,333]
## ORI_10219_10218 142.7190 470.090 184.9630  700.987 316.741  659.647 321.286
## ORI_10735_10730 232.8540 393.819 148.6130  710.094 558.233  756.436 428.444
## ORI_14605_14585 177.1070 475.000 113.7160  778.251 459.512  770.091 383.213
## ORI_14607_14586  77.8028 502.468 104.2830  490.172 421.630  702.565 306.395
## ORI_14609_14587 332.7190 388.786  99.4414  941.319 622.837  587.571 305.190
## ORI_14617_14591  79.7297 620.637 219.3220  928.866 484.755  741.786 319.781
## ORI_14623_14594 102.4260 444.877 146.1600  630.476 463.417  687.829 324.263
## ORI_14629_14597  53.6394 431.792 142.4210  738.639 404.903  717.664 480.552
## ORI_14631_14598 209.5350 285.919  48.0851 1047.520 621.560  780.105 351.610
## ORI_14633_14599 218.1530 480.833 144.8330  846.288 570.911  923.055 387.029
## ORI_14635_14600 152.1690 473.452 142.3800  770.861 460.512  906.877 345.923
## ORI_14639_14602  46.9789 361.356 166.3590  454.416 425.151  776.586 379.209
##                   [,334]   [,335]   [,336]  [,337]   [,338]   [,339]  [,340]
## ORI_10219_10218 276.4910 209.5200  890.847 276.391  592.418 288.7020 374.002
## ORI_10735_10730 341.8320 450.9590  497.100 453.257  756.569 128.8900 490.937
```

```
## ORI_14605_14585 524.2660 317.9400  509.881 470.160  808.330 129.2600 337.721
## ORI_14607_14586 408.7130 240.2910  722.431 600.528  666.036 164.5870 551.964
## ORI_14609_14587 380.5800 276.0240  717.118 574.919  738.114 176.6780 449.041
## ORI_14617_14591 157.9770 267.9270  660.507 280.056  470.707 266.0880 433.489
## ORI_14623_14594 177.7470 333.8080  693.453 238.432  694.337 149.8530 500.507
## ORI_14629_14597  98.3686 241.7240 1170.890 496.275 1085.830 135.5560 203.107
## ORI_14631_14598 314.6330 277.5490 1058.770 641.733  662.749 135.4490 339.774
## ORI_14633_14599 177.1480 577.1610  814.709 589.592  989.288 185.7810 582.047
## ORI_14635_14600 274.7880 238.2710  362.598 280.304  615.984 125.6580 456.853
## ORI_14639_14602 143.6390 149.3970 1216.690 288.789  592.846  67.1744 370.423
##                  [,341]   [,342]   [,343]    [,344]   [,345]  [,346]  [,347]
## ORI_10219_10218 232.435  557.049 1664.120  297.9110 1291.980 576.556 374.516
## ORI_10735_10730 237.294 1529.490 1453.270  211.0480  880.035 797.148 457.926
## ORI_14605_14585 199.202  926.278 1381.690  313.5530 1076.560 857.533 292.983
## ORI_14607_14586 189.104  994.565 1641.310  397.1430 1213.450 617.679 310.832
## ORI_14609_14587 242.681 1040.060 1425.260  375.5590 1240.220 761.963 425.577
## ORI_14617_14591 175.312 1010.260 2013.070  412.4530 2340.900 619.906 215.159
## ORI_14623_14594 277.938  929.656 1498.280  315.6400 1466.510 542.744 123.294
## ORI_14629_14597 400.889  939.562  789.585   72.5978  756.070 431.593 266.289
## ORI_14631_14598 215.856  926.367 1029.850  204.0100 1086.650 960.651 425.866
## ORI_14633_14599 356.483 1006.790  987.894  473.2780  859.249 706.714 142.471
## ORI_14635_14600 341.555  929.954 1151.250  263.9890 1059.450 581.437 123.933
## ORI_14639_14602 305.702 1182.430  577.202   96.2492 1059.130 479.266 159.962
##                   [,348]  [,349]   [,350]  [,351]   [,352]   [,353]  [,354]
## ORI_10219_10218  609.380 264.092  536.789 181.413  820.384  622.861 373.661
## ORI_10735_10730  473.504 531.768  566.118 288.450 1291.640  578.882 260.934
## ORI_14605_14585  584.067 283.412  563.980 294.157 1190.490  780.684 301.497
## ORI_14607_14586  388.234 186.912  552.187 286.544  971.356  571.180 237.165
## ORI_14609_14587  482.264 363.626  789.005 279.128 1223.850  875.692 329.877
## ORI_14617_14591  804.907 241.727  637.106 207.198  724.736  749.493 520.112
## ORI_14623_14594  826.182 148.772  512.395 257.548  646.997  591.297 385.457
## ORI_14629_14597  570.392 242.757  629.075 358.514 1044.530  432.770 270.343
## ORI_14631_14598  599.732 361.128  940.497 210.554 1107.220  830.983 348.066
## ORI_14633_14599  624.581 539.068  753.649 184.835  905.608 1371.570 254.691
## ORI_14635_14600  608.032 260.575  510.572 251.202  737.235  788.491 642.741
## ORI_14639_14602  272.929 367.252  293.921 244.842  491.110  617.759 227.586
##                  [,355]  [,356]   [,357]   [,358]   [,359]  [,360]  [,361]
## ORI_10219_10218 148.504 342.992 210.4520  457.036 253.4390 369.068 347.505
## ORI_10735_10730 549.182 537.335  44.9170  323.618 229.4740 364.041 535.387
## ORI_14605_14585 240.281 452.899  24.6827  329.988 234.5310 386.315 483.068
## ORI_14607_14586 546.735 412.858  69.2729  126.347 148.6730 260.611 444.145
## ORI_14609_14587 467.889 567.135  56.4941  310.303 216.5340 194.192 457.069
## ORI_14617_14591 204.337 425.093 107.6260  426.429 228.4190 187.813 525.957
## ORI_14623_14594 168.852 280.995 106.6150  373.838 243.8340 419.339 561.109
## ORI_14629_14597 311.890 415.952  40.2372  281.337 176.9450 293.109 472.211
## ORI_14631_14598 426.317 615.455  52.1221  337.084 301.9290 279.430 293.564
## ORI_14633_14599 135.485 475.180  31.6563  279.671 357.1440 337.087 447.576
## ORI_14635_14600 183.521 375.547  58.4743  407.440 440.1150 331.565 479.518
## ORI_14639_14602 375.933 479.472  73.4928  336.236 575.0620 360.876 426.391
##                   [,362]   [,363]  [,364]   [,365]  [,366]   [,367]   [,368]
## ORI_10219_10218  765.091  953.360 407.033 1729.930 139.802 311.2340  329.362
## ORI_10735_10730  495.139 1579.990 417.480 1441.500 323.411 128.9120  650.049
## ORI_14605_14585  838.060 1191.790 290.669 1442.640 142.570 304.7160  419.508
## ORI_14607_14586  420.230 1007.940 448.334  875.761 166.856 274.9810  540.540
```

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## ORI_14609_14587  214.521 1438.150 487.830 1193.580 320.738 359.0510  629.226
## ORI_14617_14591  533.961  940.850 227.914 1408.880 135.311 286.4010  388.913
## ORI_14623_14594  812.896 1021.860 319.120 1172.970 134.842 386.4600  413.395
## ORI_14629_14597  216.244 1788.830 306.309  513.577 189.862 432.5210  410.090
## ORI_14631_14598  330.697 1539.270 407.532 1121.480 205.252 309.3020  620.328
## ORI_14633_14599  648.532 1545.450 394.630 1679.710 267.169 308.3000  660.443
## ORI_14635_14600  462.658 1140.480 295.176  698.457 202.905 492.4590  501.307
## ORI_14639_14602  193.284  833.377 352.881  753.001 205.636 319.8470  638.947
##                   [,369]   [,370]    [,371]  [,372]  [,373]    [,374]   [,375]
## ORI_10219_10218  470.882 2828.280   75.7334 268.328 469.150  448.3130 1593.070
## ORI_10735_10730  620.258 1889.530   67.3911 312.014 365.784  267.9140  792.215
## ORI_14605_14585  367.077 2674.690  150.3320 249.682 502.222  477.4130  741.219
## ORI_14607_14586  913.161 1730.570  232.0500 378.646 238.891 1023.6400  708.514
## ORI_14609_14587  654.798 2388.770  115.8780 337.685 346.995 1108.3300 1211.870
## ORI_14617_14591  469.746 2044.160   52.9840 272.513 276.044  241.3420 1357.220
## ORI_14623_14594  258.495 2236.400   77.4486 226.308 812.232  222.7550  861.406
## ORI_14629_14597  706.902 2556.460   93.3974 609.472 384.884  300.0260 1283.590
## ORI_14631_14598  760.571 1773.750  132.8740 337.647 508.510  683.0390 1664.120
## ORI_14633_14599  443.223 2822.250   66.4658 415.774 495.508  277.5380  779.535
## ORI_14635_14600  256.821 2610.080   76.8164 287.106 664.363  590.1900  729.698
## ORI_14639_14602  321.296 2508.440   64.2361 258.110 711.846  223.4000  649.213
##                  [,376]   [,377]   [,378]   [,379]   [,380]   [,381]  [,382]
## ORI_10219_10218 302.604 201.3290  336.834  7781.35 237.7210  626.684 5343.86
## ORI_10735_10730 200.357  90.2350  510.717  9676.24 463.9580  516.468 7039.03
## ORI_14605_14585 155.564 205.1680  588.145  8056.17 313.1330  611.145 6941.30
## ORI_14607_14586 266.961 196.7890 1905.090  9324.67 339.5810  621.584 7932.30
## ORI_14609_14587 460.477 157.5390 1010.330  9601.85 322.0330  417.776 7978.06
## ORI_14617_14591 395.632 383.6630  226.130  6451.41 149.0230  271.058 6306.96
## ORI_14623_14594 213.201 240.0430  501.102  6570.99 219.0270  467.342 4982.17
## ORI_14629_14597 190.747  98.5262  541.799  6803.12 313.5850  608.867 7981.28
## ORI_14631_14598 316.779 213.6250 1161.310  8294.62 488.4560  414.052 7637.06
## ORI_14633_14599 338.033 215.2510  256.537  9387.91 324.1020  664.970 5455.99
## ORI_14635_14600 287.127 124.1280  549.486  6304.98 273.0940  533.257 4801.98
## ORI_14639_14602 221.410  97.3804 1308.190  6945.53 422.1560  600.645 6491.05
##                   [,383]   [,384]   [,385]   [,386]   [,387]   [,388]   [,389]
## ORI_10219_10218  51.2163  24.6827  862.706 406.5770  501.471  928.182  644.097
## ORI_10735_10730  76.0269 193.6670 2377.190 380.1150  871.050  906.782  668.495
## ORI_14605_14585  77.8683 160.6910  814.859 372.2440  455.441  635.756  643.317
## ORI_14607_14586 641.3170  77.4509 1763.310 165.6970  597.874  809.864  563.158
## ORI_14609_14587 130.3770 164.9220 2885.070 243.2010  740.902  890.686  324.593
## ORI_14617_14591  61.1662  24.6827  765.409 372.4020  329.856 1031.150  493.413
## ORI_14623_14594 112.0130  86.1485  526.532 289.4530  304.796  726.112  385.760
## ORI_14629_14597  63.0262 187.1400  454.095 739.1860  464.258  676.965  245.382
## ORI_14631_14598 152.4290 311.1760 1218.750 282.5180  636.484  575.418  329.307
## ORI_14633_14599  78.3493  95.4415  944.931 262.3040  218.795 1013.750  394.521
## ORI_14635_14600  76.2975 232.9830  775.498 237.4340  300.039  737.634  474.927
## ORI_14639_14602 189.1190 120.0170  717.214 199.6980  962.712  850.125  520.485
##                   [,390]   [,391]   [,392]  [,393]  [,394]  [,395]  [,396]
## ORI_10219_10218  697.906  891.147  731.446 324.106 292.789 300.973 151.693
## ORI_10735_10730  744.718 1022.170 1350.170 344.005 380.354 244.062 223.019
## ORI_14605_14585  617.087  991.185 1020.920 274.733 370.137 367.666 279.801
## ORI_14607_14586  802.665 1519.250 1522.750 176.872 762.593 402.267 428.796
## ORI_14609_14587  673.861 1551.820 1439.850 391.678 455.521 175.438 212.060
## ORI_14617_14591 1142.200 1126.830 1056.930 315.256 382.724 228.544 156.151
```

```
## ORI_14623_14594  787.085  965.617  792.189 164.308 361.247 569.795 265.208
## ORI_14629_14597  845.068  593.198  881.281 445.431 293.810 402.293 397.796
## ORI_14631_14598  743.805 1180.140 1324.080 295.149 396.537 360.494 349.608
## ORI_14633_14599  872.409 1263.720 1198.450 315.471 404.714 325.604 264.713
## ORI_14635_14600  884.482 1041.000  948.063 333.609 346.577 671.148 287.600
## ORI_14639_14602  674.936  636.787 1047.160 187.454 468.069 510.668 152.112
##                  [,397]   [,398]   [,399]   [,400]   [,401]  [,402]  [,403]
## ORI_10219_10218 661.621 1013.910 458.0860  691.979 233.2090 379.418 263.878
## ORI_10735_10730 304.698 1179.190 182.5380  828.523 329.5210 300.168 199.796
## ORI_14605_14585 596.735 1202.080 444.3880  785.145 253.5080 216.196 322.165
## ORI_14607_14586 321.752  909.643 297.3670  976.255 377.3960 222.142 294.501
## ORI_14609_14587 636.072  901.685 480.7100  976.007 168.2360 163.262 363.767
## ORI_14617_14591 652.115 1034.860 401.3390  796.529 154.4010 179.765 338.818
## ORI_14623_14594 418.263 1339.040 679.5480  584.391 261.4090 383.283 311.244
## ORI_14629_14597 264.173  797.939 592.1510  898.974 236.6810 341.203 327.459
## ORI_14631_14598 647.652 1228.420 544.8840  962.917 315.7260 244.414 326.090
## ORI_14633_14599 629.040  988.368 410.6760  531.750 195.9170 291.730 347.362
## ORI_14635_14600 518.763 1174.120 561.8960  839.476 210.6860 309.982 440.213
## ORI_14639_14602 212.976  824.480 499.1670  722.863 231.0140 260.710 297.021
##                  [,404]  [,405]    [,406]   [,407]   [,408]    [,409]    [,410]
## ORI_10219_10218 170.886 256.169  102.5520  246.699  80.8615  163.3940   33.6497
## ORI_10735_10730 309.719 366.896  400.4360  929.485 221.7820  196.6490  197.3860
## ORI_14605_14585 174.605 148.395   68.6454  489.369  62.5556  165.1580  102.9540
## ORI_14607_14586 204.425 173.535  784.1620  941.576 373.1240  624.2240   53.8860
## ORI_14609_14587 189.925 161.129  289.1820  972.942 178.7890  296.8750   96.5102
## ORI_14617_14591 128.043 249.837   86.6263  204.465  28.6827   92.7013  168.7450
## ORI_14623_14594 189.940 207.875   56.4348  200.431  45.2244  116.1770   36.5949
## ORI_14629_14597 216.868 157.243  182.5150 1077.830  70.1028   67.5035 1120.3200
## ORI_14631_14598 192.541 234.802  252.2750  741.389 100.1920  457.1480   45.3284
## ORI_14633_14599 200.621 276.739  114.0850 1037.090  63.7298   24.6827   24.6827
## ORI_14635_14600 172.133 176.472  132.8040  522.404  80.2574   80.6440   26.0481
## ORI_14639_14602 231.196 210.168   57.6922  468.696  57.5962  176.8390   60.8787
##                  [,411]   [,412]  [,413]    [,414]   [,415]   [,416]   [,417]
## ORI_10219_10218 1508.32 245.4910 244.029  986.7010 1227.430  755.735 190.3220
## ORI_10735_10730 1614.53 144.9810 255.662  355.2460  738.658  579.670 303.3680
## ORI_14605_14585 1911.42 117.1960 351.690  132.8720  934.340  891.076 253.1930
## ORI_14607_14586 1686.77 275.7730 363.842  473.9980  901.115 1019.030 352.8520
## ORI_14609_14587 1865.13 186.1770 328.175  233.3410 1095.440  780.272 329.5380
## ORI_14617_14591 1978.24 454.2920 184.881  911.2920 1073.480  612.826 195.7410
## ORI_14623_14594 1756.40 221.8240 386.563  574.7630  906.652  827.408 235.9080
## ORI_14629_14597 1566.30 223.1210 293.089  358.3280  412.268  681.450 414.2160
## ORI_14631_14598 1549.27 180.8630 466.574  187.6890  967.885  779.812 383.9340
## ORI_14633_14599 1501.79 105.3530 250.019  287.4270 1930.470  860.213 292.4830
## ORI_14635_14600 1550.51 151.0730 447.999  456.3740 1124.450  848.691 256.1900
## ORI_14639_14602 1156.67 378.8850 355.066  494.8680  199.622  652.721 287.6550
##                   [,418]   [,419]  [,420]   [,421]   [,422]   [,423]    [,424]
## ORI_10219_10218 187.7080 130.2010 309.047 117.3300 2294.760 2699.300  219.4250
## ORI_10735_10730 248.7030 165.2830 339.950 106.2420 1461.240  649.245 1355.6400
## ORI_14605_14585 241.5000 188.0810 141.331  65.6947 2153.800 3081.820  593.5460
## ORI_14607_14586 469.3530  80.7471 218.803  85.7296 1777.530 2010.380  742.6620
## ORI_14609_14587 326.5160 280.3600 242.042 140.4840 1826.800 1868.120  828.3040
## ORI_14617_14591  98.6086 119.0900 330.203 120.0780 2032.340 2462.490  137.8160
## ORI_14623_14594 109.6860 147.6300 194.178 124.5950 1977.500 1869.310  160.9190
## ORI_14629_14597  70.3665 118.0270 152.992 186.4140 1505.490 1699.960  683.7770
```

```
## ORI_14631_14598 243.5560  65.1270 286.382 111.8430 1884.990 1695.370 1437.0700
## ORI_14633_14599 205.7160 179.9020 151.788 156.1690 2160.040 1486.590  111.6100
## ORI_14635_14600 172.7670 161.3660 249.999 125.5170 1721.880 1852.130  322.8440
## ORI_14639_14602  74.4739 118.1170 208.239 102.7630 1293.760 1010.570  481.3440
##                   [,425]   [,426]   [,427]   [,428]  [,429]    [,430]   [,431]
## ORI_10219_10218  377.040 161.2220  584.934 1495.600 235.877  156.2750  525.999
## ORI_10735_10730  844.163  97.8051  581.990  621.098 574.135 1414.0300  625.904
## ORI_14605_14585  642.053 153.9300  674.056 1308.650 357.032  190.3850  545.370
## ORI_14607_14586  846.342 158.6420  904.736  596.748 481.229 1244.0000  536.902
## ORI_14609_14587  954.871  92.9096  658.849 1002.320 373.578 1747.8800  730.740
## ORI_14617_14591  522.482  88.1032  507.071  951.558 287.260  218.4040  694.541
## ORI_14623_14594  412.380 218.7580  519.995 1132.310 283.043  206.5110  621.292
## ORI_14629_14597  589.272 148.2640  627.308  922.462 268.960 2245.1000  657.805
## ORI_14631_14598  989.207 135.7810  751.930 1040.600 397.767 1671.6900  499.024
## ORI_14633_14599  780.848 209.4600  544.722  726.884 533.083   80.0409  736.806
## ORI_14635_14600  498.687 207.1180  560.711 1273.240 423.378  184.4080  889.190
## ORI_14639_14602  712.968 207.7700  546.112  453.409 257.656  719.7200 1058.150
##                   [,432]   [,433]    [,434]   [,435]   [,436]  [,437]  [,438]
## ORI_10219_10218 507.8170 160.9850  215.6410  538.260  805.794 323.597 457.610
## ORI_10735_10730 311.3950 274.2700  354.8200  627.091 1087.300 437.152 524.237
## ORI_14605_14585 280.5740 121.4230  655.6350  605.944 1224.550 601.093 462.593
## ORI_14607_14586 211.9000 425.2580  563.9470  877.416  769.746 605.772 388.387
## ORI_14609_14587 530.0230 108.2100  752.3960  785.163  899.871 689.528 487.027
## ORI_14617_14591 276.9300 183.1200  191.7630  414.142  738.563 350.196 536.697
## ORI_14623_14594 145.6980 240.5850  192.2130  458.904  897.490 388.684 520.607
## ORI_14629_14597 458.3920 176.8810  225.2040  564.093 1024.080 573.739 411.388
## ORI_14631_14598 526.7700 178.8890  514.0870  690.564 1052.090 657.475 260.412
## ORI_14633_14599 151.1990 166.2040  570.4150  553.656 1097.930 442.084 609.458
## ORI_14635_14600 101.3480 170.8320  365.2740  557.811 1025.370 655.604 540.083
## ORI_14639_14602 425.5080 140.3630  107.4270  490.379  880.781 495.681 629.287
##                   [,439]   [,440]   [,441]   [,442]  [,443]  [,444]   [,445]
## ORI_10219_10218 1748.870 1368.640  799.171 339.1470 387.250 311.680  373.551
## ORI_10735_10730  744.305  230.248  624.309 224.9210 422.232 642.288  353.774
## ORI_14605_14585 1372.950 1203.930  669.347 259.2210 526.096 451.410  300.064
## ORI_14607_14586 1134.430  368.300  931.442 208.7150 603.054 597.818  355.095
## ORI_14609_14587  802.727  357.144  593.621 174.6400 477.355 469.293  479.545
## ORI_14617_14591 1473.530  458.725  518.261 111.8650 444.970 461.392  321.345
## ORI_14623_14594 2525.150  703.531  652.270 214.3060 396.110 329.020  218.824
## ORI_14629_14597 1457.270  471.474  611.988 234.3070 526.053 391.352  338.932
## ORI_14631_14598 1514.820  317.154  513.250 188.0440 707.468 610.693  366.824
## ORI_14633_14599 1416.790  484.633  686.596 267.1990 435.196 549.499  306.197
## ORI_14635_14600 1352.600  850.486  624.620 219.6960 512.252 501.756  364.380
## ORI_14639_14602 1383.560  352.413  570.958 237.5780 574.901 540.495  386.241
##                   [,446]  [,447]   [,448]  [,449]  [,450]   [,451]  [,452]
## ORI_10219_10218   52.6250 386.682 3003.420 355.291 581.728  269.807 216.965
## ORI_10735_10730  833.5320 400.991 2674.550 285.078 491.341  614.245 244.989
## ORI_14605_14585  548.5030 384.300 2186.900 389.629 538.331  376.090 299.257
## ORI_14607_14586  731.2100 470.723 1706.840 421.779 595.507  593.240 417.401
## ORI_14609_14587 1478.7900 372.010 1258.250 386.486 613.865  560.212 306.773
## ORI_14617_14591   55.5460 623.931 3636.500 356.485 631.175  347.382 182.046
## ORI_14623_14594   51.2053 546.653 3368.940 315.788 507.006  299.019 220.415
## ORI_14629_14597 1015.5100 503.332 2095.560 356.157 508.455  516.173 220.078
## ORI_14631_14598  975.8530 443.927 1989.640 453.767 576.141  802.156 342.600
## ORI_14633_14599   60.8470 428.486 2381.660 425.353 572.644  432.366 265.283
```

```
## ORI_14635_14600   24.6827 288.341 2904.280 334.137 667.862  489.491 241.836
## ORI_14639_14602  301.3750 658.387 1932.790 289.221 493.559  479.118 220.535
##                  [,453]   [,454]  [,455]  [,456]   [,457]   [,458]  [,459]
## ORI_10219_10218 380.896 1205.180 177.146 356.198 1152.730 2430.350 453.363
## ORI_10735_10730 476.648 1185.510 278.865 231.652 2429.490 2898.810 483.653
## ORI_14605_14585 356.194  892.475 186.562 235.703 1202.090 3291.670 461.233
## ORI_14607_14586 359.281  875.554 279.529 408.049 1079.660 1962.930 333.001
## ORI_14609_14587 613.945  698.930 208.505 234.676  829.122 3445.140 426.297
## ORI_14617_14591 539.871  888.950 155.075 285.920 1384.270 2201.380 521.958
## ORI_14623_14594 494.465  826.729 206.443 471.921 1122.950 2558.650 406.530
## ORI_14629_14597 332.651  669.719 201.452 356.752 1472.850 6106.760 184.798
## ORI_14631_14598 624.435  974.799 167.828 324.099  979.039 3693.290 308.420
## ORI_14633_14599 378.396 1128.460 171.680 496.035  791.158 2971.430 282.632
## ORI_14635_14600 697.902  948.598 219.394 483.125 1585.500 1935.320 495.908
## ORI_14639_14602 155.728  814.995 165.573 324.593 1198.290  542.201 260.032
##                    [,460]    [,461]   [,462]  [,463]    [,464]   [,465]
## ORI_10219_10218 1161.7500 1899.5200  328.154 1996.14  101.4010  735.532
## ORI_10735_10730  188.4420   25.6201  434.919 1828.82  844.7750  620.375
## ORI_14605_14585 2272.4200  930.2610  475.414 2868.09  288.8990  711.915
## ORI_14607_14586 1309.5400  601.7730  518.026 2392.16  515.7530  660.653
## ORI_14609_14587 2442.6900  760.7280  530.348 3758.30  471.4240  665.714
## ORI_14617_14591  319.8630 1994.2400  564.751 3013.75   64.1852  701.948
## ORI_14623_14594  299.6800 1776.3600  450.055 2319.12   58.3923  522.596
## ORI_14629_14597  566.4950  229.5890  671.842 1948.33  180.6270  803.680
## ORI_14631_14598  633.0440  664.3520  708.561 2318.12  186.6580  513.338
## ORI_14633_14599  688.3070  844.0940  506.595 4577.30  387.1490  786.276
## ORI_14635_14600  913.4590  768.5000  743.623 2576.46   30.9801  703.232
## ORI_14639_14602  486.1430   78.4861  776.961 1157.36  264.7220  619.892
##                   [,466]    [,467]   [,468]   [,469]  [,470]   [,471]   [,472]
## ORI_10219_10218 152.7190  330.3280  60.5880  885.323 474.862  873.155  583.858
## ORI_10735_10730 170.1370  790.8280 248.3070  943.544 324.309 1006.740  383.134
## ORI_14605_14585 306.7020  764.8280 116.3140 1114.020 501.454  560.607  991.246
## ORI_14607_14586 125.4270 2015.7600 496.9940  793.990 499.142  397.603  583.283
## ORI_14609_14587 414.7260 1511.4300 337.9440  746.645 413.744 1026.570 1175.700
## ORI_14617_14591 221.5570  220.3860  38.5181  843.039 458.120  862.725  570.674
## ORI_14623_14594 215.1390  102.3160  68.2599 1278.940 476.245  643.136  409.527
## ORI_14629_14597 107.1710   63.7758  50.0781 1290.600 511.283  316.602  366.720
## ORI_14631_14598 197.1200  865.7020 445.3540 1189.630 360.230 1041.200  705.615
## ORI_14633_14599 197.7530  722.9620 107.7210 1329.500 466.632 1067.420  366.969
## ORI_14635_14600 404.2040  252.1990 100.4970 2161.910 643.500  785.771  364.319
## ORI_14639_14602 129.7500   24.6827  61.4221 1543.210 592.760  789.412  484.788
##                   [,473]   [,474]    [,475]  [,476]  [,477]   [,478]   [,479]
## ORI_10219_10218  498.269  797.460 1672.3300 745.060 342.137 1191.960  623.436
## ORI_10735_10730  977.522  639.987   34.4270 441.456 333.201  717.968 1938.060
## ORI_14605_14585  795.031  417.243  437.9310 602.555 250.562  867.897  348.557
## ORI_14607_14586  581.898 1220.320  572.3480 732.057 583.248  799.611 1068.350
## ORI_14609_14587  531.720 1247.420  268.3610 799.857 584.369 1123.090  850.794
## ORI_14617_14591  309.919  709.381 1924.5200 668.967 407.704 1504.310 1058.250
## ORI_14623_14594  634.960  639.377  931.6150 427.270 291.703 1044.980  795.272
## ORI_14629_14597  726.184  767.153  115.4480 574.523 389.275  893.734 2474.390
## ORI_14631_14598  730.899 1333.860  135.6610 547.777 580.868 1176.710 1588.490
## ORI_14633_14599  754.345  633.690  247.6980 704.304 347.364  919.274  385.230
## ORI_14635_14600  772.820  261.755  634.0540 506.480 292.972 1079.810  442.283
## ORI_14639_14602  597.551  228.840  200.3390 421.476 143.720 1066.270 1006.100
```

```
##                   [,480]  [,481]   [,482]  [,483]  [,484]  [,485]   [,486]
## ORI_10219_10218  231.468 304.180 247.3960 247.211 218.306 236.603  94.0635
## ORI_10735_10730  368.256 906.728  91.9980 294.471 415.710 350.896  86.9447
## ORI_14605_14585  451.597 227.076 182.3510 254.865 283.186 249.759 233.0580
## ORI_14607_14586  891.502 608.875 140.6380 237.479 335.743 258.408  46.1124
## ORI_14609_14587  922.223 437.744 139.3260 299.250 371.204 397.814 279.8530
## ORI_14617_14591  509.320 229.058 437.8710 294.973 271.815 252.945  35.6223
## ORI_14623_14594  539.228 210.505 219.8130 298.009 366.950 316.916 102.4910
## ORI_14629_14597  802.196 639.565 220.4190 213.107 406.359 360.507 167.2390
## ORI_14631_14598  674.692 335.105 106.5450 269.015 333.630 262.622 127.3850
## ORI_14633_14599  695.971 204.276 168.1000 863.574 383.382 473.467 111.5190
## ORI_14635_14600  520.972 210.680 223.0150 389.259 368.467 386.230 175.3720
## ORI_14639_14602  288.190 256.260 103.8970 403.633 560.351 479.298 155.8580
##                   [,487]   [,488]   [,489]  [,490]   [,491]   [,492]   [,493]
## ORI_10219_10218  890.350  441.561 1260.420 435.479 165.2660  547.703  632.815
## ORI_10735_10730  942.154 1003.670 1177.690 137.857  24.6827  473.170 1077.000
## ORI_14605_14585 1053.580  998.694 1684.470 407.986 233.1520  658.408  768.781
## ORI_14607_14586 1070.680 1270.020 1369.300 744.090 230.3910  609.045  730.787
## ORI_14609_14587  942.574  943.868 1490.860 224.678 104.4000  657.466  756.672
## ORI_14617_14591 1070.660  710.563  931.706 411.475 158.0880  603.431  483.603
## ORI_14623_14594  782.552  730.879  679.234 491.806 110.7910  514.300  451.089
## ORI_14629_14597  700.884  572.600 1114.080 197.829  27.7775  624.755  763.818
## ORI_14631_14598 1283.240  982.330 1573.530 443.090 164.4420  715.946  467.305
## ORI_14633_14599  493.994  943.535 1241.600 407.421 167.9530  485.167  712.408
## ORI_14635_14600  734.205  600.044 1230.960 336.973 176.6860  469.824  548.103
## ORI_14639_14602  426.952  426.076 1333.440 322.189  32.0189  333.973  740.819
##                  [,494]   [,495]  [,496]   [,497]   [,498]   [,499]    [,500]
## ORI_10219_10218 607.736 384.0280 264.395 231.4660 2597.720 347.9270   81.1116
## ORI_10735_10730 371.788 425.7750 249.712 109.4350 2123.220  71.6606   74.2565
## ORI_14605_14585 357.357 654.5060 260.734 180.8590 2533.450 323.1360   40.9041
## ORI_14607_14586 371.045 366.8540 243.031 315.5990 2461.270 416.7610  148.9640
## ORI_14609_14587 371.121 624.5790 233.722 128.3340 1559.530 861.9940   55.3781
## ORI_14617_14591 741.760 286.7850 270.288  85.3948 2558.590 313.1590   39.2965
## ORI_14623_14594 542.649 372.7400 214.527 199.6060 2333.520 162.9410   56.1505
## ORI_14629_14597 497.254 259.0350 217.843 155.2210 1208.190 103.9840   62.1548
## ORI_14631_14598 254.387 361.2560 324.125 224.0930 1764.540 590.1550  124.5520
## ORI_14633_14599 667.801 379.9840 244.784 274.5040 2543.620 192.8780   71.3935
## ORI_14635_14600 593.401 276.1230 275.423 147.0480 2435.420 211.5730   56.8304
## ORI_14639_14602 594.627 338.8790 222.773 138.6190 2527.310 113.2720  480.8060
##                   [,501]   [,502]  [,503]   [,504]   [,505]   [,506]  [,507]
## ORI_10219_10218 1901.940  574.386 433.154  870.522 500.9970 206.4100 583.086
## ORI_10735_10730 1203.130 1022.300 270.133  597.455 307.8780 207.6640 649.100
## ORI_14605_14585 2865.450  883.674 501.447  823.896 445.8350 125.9210 533.191
## ORI_14607_14586 2497.200  612.605 564.282  568.489 185.7430 123.5290 558.196
## ORI_14609_14587 2317.170  976.119 548.217 1082.180 475.2160 222.0020 727.308
## ORI_14617_14591 2690.760  547.527 496.412  601.094 615.8550 127.3210 366.956
## ORI_14623_14594 3131.690  536.170 580.433  593.039 439.8210 201.2400 469.277
## ORI_14629_14597 2383.170  718.500 616.179  427.850 323.7710 247.1000 611.651
## ORI_14631_14598 2429.890  656.971 488.266 1127.740 513.4150 213.7170 536.906
## ORI_14633_14599 2480.380  799.939 462.214  824.349 580.1220 279.2350 308.993
## ORI_14635_14600 2079.930  527.081 527.228  467.976 588.6050 137.1210 411.614
## ORI_14639_14602  951.772  433.502 459.140  261.615 214.3350  53.1594 462.015
##                   [,508]  [,509]   [,510]  [,511]  [,512]   [,513]  [,514]
## ORI_10219_10218  912.405 4890.25 3387.980 151.364 445.175  247.138 245.804
```

```
## ORI_10735_10730  719.416 4691.39 1273.670 217.736 608.940  381.965 376.286
## ORI_14605_14585  903.211 3426.89 1775.170 221.338 623.312  260.916 325.526
## ORI_14607_14586  940.012 5100.65 1289.910 217.900 671.289  247.165 324.250
## ORI_14609_14587 1255.280 4675.67 1005.870 192.532 769.812  332.992 364.859
## ORI_14617_14591  636.815 4706.74 2828.480 159.088 466.470  224.211 248.140
## ORI_14623_14594  692.469 3485.95 3262.890 171.213 569.527  181.566 271.205
## ORI_14629_14597  735.680 4733.34  736.433 323.713 562.798  284.505 450.587
## ORI_14631_14598 1610.510 5132.66 3657.170 299.169 849.538  384.257 460.318
## ORI_14633_14599  804.965 3402.22 4333.370 236.547 392.306  281.027 417.349
## ORI_14635_14600  686.472 2995.10 2106.790 203.900 628.555  258.887 406.834
## ORI_14639_14602  543.282 3665.73  362.155 203.028 653.593  148.699 299.554
##                   [,515]   [,516]    [,517]    [,518]   [,519]   [,520]
## ORI_10219_10218  236.570 219.5960  227.9850  343.9710  754.288 1017.390
## ORI_10735_10730  334.387 111.1240  385.8710 1377.5800  346.165  815.565
## ORI_14605_14585  210.652 236.6170  373.1300  773.0510  834.834  820.324
## ORI_14607_14586  226.342 274.5970 1118.9900 2054.9100  550.619  781.561
## ORI_14609_14587  190.987 357.4910  716.1720 1806.7500  624.909  477.367
## ORI_14617_14591  182.990 170.0740   79.7015  213.5160  324.770  492.139
## ORI_14623_14594  179.066 356.6360  105.3340  249.2330 1114.150  934.491
## ORI_14629_14597 1062.430 225.6550  135.1330  591.6210 1017.630 1038.020
## ORI_14631_14598  230.138 196.4320  650.2190 1490.8600  886.345  798.858
## ORI_14633_14599  281.329 405.1570  211.9990  623.7510  540.675  931.247
## ORI_14635_14600  227.845 315.6820  126.5110  341.0610 1008.240  829.254
## ORI_14639_14602  359.245 241.7180   75.7568  240.6390  701.383  839.993
##                   [,521]  [,522]   [,523]  [,524]   [,525]   [,526]   [,527]
## ORI_10219_10218  741.955 221.413  944.474 220.577  45.9307  96.7664  560.159
## ORI_10735_10730  414.463 156.552  654.937 166.250 308.0960 211.9180  273.180
## ORI_14605_14585  650.919 266.158  827.120 280.395  67.3897 146.0520  735.372
## ORI_14607_14586  407.226 270.136  652.665 343.348  66.0743  89.1853  368.900
## ORI_14609_14587  560.108 181.092  949.579 422.826  86.4073 289.2050  809.975
## ORI_14617_14591  462.565 175.653  856.051 242.093 151.9720  81.6424  889.970
## ORI_14623_14594  341.688 175.630  535.522 194.451 133.7530  76.8512  656.337
## ORI_14629_14597  216.280 214.844  365.426 388.375 255.6460  47.3440  251.964
## ORI_14631_14598  444.894 151.594  872.216 311.868  42.4001 165.2620  640.614
## ORI_14633_14599  337.016 254.111  701.848 260.019  87.9403  34.3584  763.320
## ORI_14635_14600  425.743 181.405  673.680 183.371 132.3690  73.9293  411.929
## ORI_14639_14602  269.844 199.199  429.407 290.987  54.6602  98.1676  324.027
##                   [,528]   [,529]   [,530]    [,531]   [,532]  [,533]   [,534]
## ORI_10219_10218  941.344  784.679 372.8690  901.9400 1147.910 352.794 1465.320
## ORI_10735_10730  444.327  799.885 259.9930  377.0120 1396.270 771.068 1037.670
## ORI_14605_14585  708.081  709.832 400.0540  181.7390 1300.930 411.645 1102.740
## ORI_14607_14586  353.098 1103.920 497.6840  374.3490 1229.090 269.481 1162.250
## ORI_14609_14587  456.613 1151.780 520.8590  173.1050 1353.630 320.618 1289.970
## ORI_14617_14591  509.299 1460.840 192.8200 1212.5900 1236.100 367.445 1193.000
## ORI_14623_14594  445.804 1148.980 132.0510  521.8750 1197.260 339.586  956.229
## ORI_14629_14597  187.508  999.660 153.1420  124.0100 1221.800 299.241 1602.400
## ORI_14631_14598  272.688 1112.460 228.5410  238.0100 1616.910 307.782 1132.140
## ORI_14633_14599  337.002  673.838 187.3760  347.5650 1486.510 310.397 1262.930
## ORI_14635_14600  581.981 1132.540 244.6130  428.8000 1194.900 338.533 1049.210
## ORI_14639_14602  368.278  641.753 110.6460  400.0700 1145.010 394.136  942.450
##                   [,535]  [,536]   [,537]   [,538]    [,539]   [,540]    [,541]
## ORI_10219_10218  73.4807 201.605  33.5424  627.444  256.0090 2514.200 1424.1500
## ORI_10735_10730 226.1260 276.010 477.2720  978.284  922.2220  732.293  368.1550
## ORI_14605_14585  92.6687 177.957  76.8132  793.692  286.0910 1520.740  898.6370
```

```
## ORI_14607_14586 140.0370 340.831 194.6080  588.089  422.3160 1411.650  398.9610
## ORI_14609_14587 215.7210 414.478 225.3260  504.338  507.1420 1540.770  542.0260
## ORI_14617_14591  35.2407 132.932  27.0811  667.347  202.7040 2522.460 1206.8900
## ORI_14623_14594  70.5959 141.021  72.3580  698.870  258.5830 1482.690  647.9430
## ORI_14629_14597 175.3750 163.775 307.0950 1109.060  426.5510 2958.700  183.8490
## ORI_14631_14598 134.5880 191.901 385.2080  623.621 1066.2600 1011.110  286.5570
## ORI_14633_14599  84.3677 178.899  73.8702  965.976  228.1370 1183.320  337.9450
## ORI_14635_14600  86.5169 144.576  66.1210  900.491  133.2590 1247.370  509.2080
## ORI_14639_14602  66.3641 464.916 157.3620 1534.790  222.1330  732.392  221.8280
##                   [,542]  [,543]   [,544]  [,545]   [,546]  [,547]   [,548]
## ORI_10219_10218 203.7760 234.203  725.338 266.327  467.243 202.647 146.0360
## ORI_10735_10730 446.8670 460.252  748.614 458.450  510.907 157.721 200.4080
## ORI_14605_14585 250.2660 538.861  503.688 315.084  672.104 203.557 176.9710
## ORI_14607_14586 274.1400 476.051  502.991 224.890  633.843 202.404 234.4370
## ORI_14609_14587 298.0630 763.657  927.450 473.034  864.060 293.447 259.2600
## ORI_14617_14591 184.0690 623.433  836.191 303.503  956.279 192.917 178.8340
## ORI_14623_14594 187.6940 424.658  532.649 179.139  558.673 309.734 192.9980
## ORI_14629_14597 233.7700 458.288  895.988 405.186  375.197 172.374 146.9120
## ORI_14631_14598 180.8150 826.362  958.514 280.474  688.564 356.048 182.5150
## ORI_14633_14599 518.5260 492.439  487.075 519.837  962.226 142.872 237.1900
## ORI_14635_14600 257.7970 442.545  455.565 538.825  800.185 127.143 212.4190
## ORI_14639_14602 182.7450 393.479  401.357 292.809  562.067 145.680  81.1819
##                   [,549]  [,550]   [,551]  [,552]  [,553]  [,554]   [,555]
## ORI_10219_10218 1084.640 552.457  193.401 357.430 354.340 198.711 272.6980
## ORI_10735_10730 1193.920 453.981  570.481 389.757 345.527 266.193 283.4010
## ORI_14605_14585  652.489 368.913  531.821 301.163 352.691 239.492 337.7350
## ORI_14607_14586  559.518 430.127  858.887 306.826 242.139 117.557 409.3570
## ORI_14609_14587 1296.410 505.355  600.880 618.839 423.577 282.586 356.5860
## ORI_14617_14591 1180.990 630.282  308.013 322.846 478.739 204.503 330.9900
## ORI_14623_14594 1164.760 464.241  189.449 253.473 324.262 315.176 322.0560
## ORI_14629_14597 2406.250 416.594  447.742 155.341 244.975 184.792 178.0280
## ORI_14631_14598 1417.750 401.134  518.645 358.803 439.528 190.793 323.7450
## ORI_14633_14599  269.588 348.937  261.893 357.553 404.484 317.468 410.9560
## ORI_14635_14600 1164.440 450.715  222.027 275.702 527.029 362.008 447.8680
## ORI_14639_14602 1772.000 339.814  508.237 308.154 332.108 161.460 141.2650
##                    [,556]   [,557]   [,558]    [,559]    [,560]    [,561]
## ORI_10219_10218  321.4790 1592.690  709.153   28.8277  252.4410  858.1620
## ORI_10735_10730  614.3680 2913.200  780.378   75.4237 1730.7400  359.5430
## ORI_14605_14585  497.4900 2977.290  760.394   32.5316 1108.8000  653.7530
## ORI_14607_14586  346.0000 2092.590  526.698  237.1060 1623.8100 1327.7600
## ORI_14609_14587  436.6290 2391.680  978.741   40.0883 3195.5000  661.7960
## ORI_14617_14591  426.1820 2537.750  679.608   30.4607  182.0940  665.4930
## ORI_14623_14594  767.0000 2088.680  599.191   24.6827  339.5110  451.2060
## ORI_14629_14597  396.3170 1740.000  751.836   41.2859 2001.6200  484.1200
## ORI_14631_14598  318.4670 1879.160  816.576   86.0887 1900.7800  469.7460
## ORI_14633_14599  555.8310 1813.690  605.002   24.6827  189.2890  273.0190
## ORI_14635_14600  599.6780 2540.680  682.961   24.6827  200.9840  374.3040
## ORI_14639_14602  606.3690 3285.980  595.098   46.6944  481.9980  285.7150
##                   [,562]   [,563]  [,564]   [,565]   [,566]  [,567]   [,568]
## ORI_10219_10218  421.970  252.217 195.499  993.364 1080.690 852.484 151.3950
## ORI_10735_10730 3782.410 2479.360 200.260 3175.020  856.803 645.968 114.1640
## ORI_14605_14585 2485.560 1576.120 377.589 2115.350  458.848 648.057 230.4330
## ORI_14607_14586 4441.330 3052.780 601.048 2726.420  861.400 924.414 444.1240
## ORI_14609_14587 2863.180 1847.750 685.598 3302.000  572.642 770.259 302.1730
```

```
## ORI_14617_14591  486.070  322.888 169.911 1366.390  791.408 853.624 149.1970
## ORI_14623_14594  690.279  407.798 196.674 1168.810  470.646 492.486  96.9532
## ORI_14629_14597 1347.220  885.272 214.040 2609.220  383.203 664.920  84.0784
## ORI_14631_14598 3072.070 2139.500 336.589 2020.810  782.923 651.027 195.6570
## ORI_14633_14599  448.400  267.668 147.652 1330.320  792.697 947.842 213.4050
## ORI_14635_14600  562.881  316.003 218.307 1441.510  565.218 591.626 167.6310
## ORI_14639_14602 1516.360  873.536 129.031 2877.000  848.218 391.364  65.3540
##                  [,569]   [,570]    [,571]  [,572]   [,573]  [,574]   [,575]
## ORI_10219_10218 199.282  641.407  141.2450 671.069  203.826 420.041  654.350
## ORI_10735_10730 264.273 1105.820 1019.4500 797.605  456.690 643.190 1622.700
## ORI_14605_14585 357.224  385.224  144.3450 921.059  649.357 227.011 1109.500
## ORI_14607_14586 300.515  853.361 1208.6900 735.343  419.976 195.113 1391.380
## ORI_14609_14587 341.576  851.423  730.3190 892.259  430.364 279.683 1613.860
## ORI_14617_14591 640.008  595.233  222.6050 823.322  360.659 433.801  832.412
## ORI_14623_14594 608.571  445.403   40.0871 710.441  679.813 324.038  542.418
## ORI_14629_14597 249.560  454.653 4259.7900 688.323  482.934 310.617 2314.210
## ORI_14631_14598 315.262  976.534 1242.7100 749.049  864.341 438.797  970.982
## ORI_14633_14599 704.049  917.479   91.1403 766.280  507.404 240.658  804.529
## ORI_14635_14600 731.375  581.808   71.0453 755.675  537.465 285.793  614.228
## ORI_14639_14602 301.455  398.625  294.6480 438.268  642.288 440.661 1091.970
##                   [,576]   [,577]   [,578]   [,579]  [,580]  [,581]  [,582]
## ORI_10219_10218  791.915 1278.880 1898.670  775.044 323.032 455.995 1428.41
## ORI_10735_10730  885.994 1061.450 2169.870  787.717 484.198 240.979 1957.71
## ORI_14605_14585  599.709  545.872 1310.130  557.542 352.427 287.244 1641.13
## ORI_14607_14586  932.962  530.218 1564.540  928.758 378.794 262.828 1585.95
## ORI_14609_14587  712.021  689.967 1046.730  788.086 405.500 186.625 2168.55
## ORI_14617_14591  723.072  852.150 1760.450  489.715 243.167 452.467 1794.90
## ORI_14623_14594  423.997  752.512 1006.960  383.633 224.960 408.668 1779.90
## ORI_14629_14597  473.335  609.470 1755.340  380.189 430.583 293.850 2138.33
## ORI_14631_14598  801.956  728.775 1142.060  883.428 326.981 237.206 1856.73
## ORI_14633_14599  824.908 1114.210 1317.970  363.322 408.016 250.792 1838.68
## ORI_14635_14600  446.831  982.736 1176.880  550.857 393.533 412.453 1623.99
## ORI_14639_14602  590.259  501.126 1456.410  429.444 361.679 293.630 1962.75
##                   [,583]   [,584]   [,585]   [,586]    [,587]  [,588]  [,589]
## ORI_10219_10218  637.840 1084.620  869.603 204.3660 1338.9800 445.250 246.322
## ORI_10735_10730  301.280 1187.840  582.749 285.8640  436.8040 184.612 351.893
## ORI_14605_14585  265.537 1190.730  913.854 211.7170  948.6200 243.931 388.898
## ORI_14607_14586  384.404 1894.030  928.355 225.9210  488.7630 277.820 382.188
## ORI_14609_14587  432.620 1499.360  744.709 306.2740  598.1140 240.964 496.129
## ORI_14617_14591  744.526 1481.340  726.365 129.6160 1520.0100 462.407 294.715
## ORI_14623_14594  339.744 1277.220  841.550 162.0540  899.5280 362.375 305.465
## ORI_14629_14597  490.008 1133.870 1051.490 239.6950  864.8190 203.848 401.023
## ORI_14631_14598  357.423 1320.100  884.504 172.2330  840.3450 196.233 377.917
## ORI_14633_14599  465.908 1020.520  884.488 251.2400 1369.4600 243.855 351.680
## ORI_14635_14600  348.089 1347.060  683.167 289.2290  882.3890 305.250 313.628
## ORI_14639_14602  282.563 1015.230  717.281 221.3940  690.5640 234.579 338.557
##                   [,590]   [,591]  [,592]  [,593]    [,594]  [,595]  [,596]
## ORI_10219_10218 545.4270 111.7580 342.806 464.567  522.3800 227.588 241.347
## ORI_10735_10730 192.4090 171.6760 284.499 482.469 1201.8700 281.046 429.753
## ORI_14605_14585 221.4350 159.1440 336.485 388.744  554.7400 274.960 303.247
## ORI_14607_14586 184.9410  84.9776 376.636 403.583  346.2710 215.810 310.835
## ORI_14609_14587 129.3010 142.6070 413.636 612.303  900.9410 295.488 308.192
## ORI_14617_14591 292.5850 139.0990 363.057 628.688  705.4180 216.238 254.670
## ORI_14623_14594 111.9080 200.3930 233.511 428.888  504.0470 253.323 223.668
```

```
## ORI_14629_14597  25.7774 121.5440 250.868 292.161  873.4180 357.984 352.394
## ORI_14631_14598 129.2330 110.0390 286.661 417.491  535.4370 318.291 365.158
## ORI_14633_14599 218.2880 248.4640 420.899 526.846 1251.1700 199.066 312.370
## ORI_14635_14600 132.4260 203.8580 294.626 334.242  490.9280 289.320 270.536
## ORI_14639_14602 173.6560 189.4470 213.578 303.187  793.1850 153.014 292.402
##                   [,597]  [,598]   [,599]  [,600]  [,601]   [,602]  [,603]
## ORI_10219_10218  885.312 423.573  875.533 377.773 239.027  338.373 539.213
## ORI_10735_10730 1592.880 429.388  826.594 595.674 373.405  757.255 406.599
## ORI_14605_14585 1137.290 290.136  931.743 433.272 224.275  636.607 490.453
## ORI_14607_14586 1007.260 273.074  844.419 449.400 337.335  481.626 460.539
## ORI_14609_14587 1266.000 552.312  881.158 598.516 319.916  439.679 600.002
## ORI_14617_14591 1294.300 242.828  584.947 457.273 199.211  386.855 435.293
## ORI_14623_14594 1170.380 287.876  434.581 338.963 193.398  447.077 363.262
## ORI_14629_14597  885.687 451.786  710.308 322.065 162.144  606.231 597.529
## ORI_14631_14598  714.376 506.288  868.144 416.341 251.027  615.793 609.585
## ORI_14633_14599 1388.180 339.762  715.150 398.721 308.414  441.140 574.099
## ORI_14635_14600 1342.560 350.787  516.086 304.135 248.753  563.840 457.637
## ORI_14639_14602 1520.200 302.135  461.161 344.995 187.476  593.265 482.361
##                   [,604]  [,605]   [,606]    [,607]   [,608]   [,609]   [,610]
## ORI_10219_10218 3530.240 453.496  731.737  639.7070 1111.130 4742.910 281.2640
## ORI_10735_10730 1017.670 217.312 1308.140 1201.0300  899.211 1505.960 138.6680
## ORI_14605_14585 3139.770 457.609 3772.880 2203.9500 1030.590 3701.460 195.5880
## ORI_14607_14586 1377.460 261.497 1605.480  645.0660  712.388 7215.510 202.3520
## ORI_14609_14587 1599.180 246.167 2609.480 1965.2000  476.121 3975.150 195.2650
## ORI_14617_14591 2310.710 350.901 2803.700  293.9680  595.015 1136.180 162.0640
## ORI_14623_14594 1942.020 720.619 1103.950  215.3000 1109.400 1969.290 239.9690
## ORI_14629_14597  775.930 441.020  977.272  502.2200  926.004 2228.250 328.7150
## ORI_14631_14598 1234.150 390.950 1797.500 1380.2900  920.145 1296.340 227.8940
## ORI_14633_14599  557.532 354.621 1553.240  618.5250  851.811 1019.390 256.2020
## ORI_14635_14600 1495.070 507.806 1586.270  431.1260  970.620 1517.130 228.4340
## ORI_14639_14602  684.798 414.176  465.197  144.4870  912.276 2417.390 186.2060
##                   [,611]   [,612]   [,613]  [,614]   [,615]  [,616]  [,617]
## ORI_10219_10218  58.0225 272.4140 227.5540 3377.51  614.717 409.958 353.680
## ORI_10735_10730 225.9120 544.0460 219.6600 1901.60  524.155 466.610 501.350
## ORI_14605_14585 102.8770 275.9890 141.2080 2754.08  834.122 508.517 470.377
## ORI_14607_14586 336.9480 531.3940 274.2600 2894.21  553.424 393.097 337.781
## ORI_14609_14587 320.1870 771.0300 222.9590 2632.58  995.752 486.669 444.807
## ORI_14617_14591  28.2491 315.2570 135.1940 2465.91  817.863 613.288 348.849
## ORI_14623_14594  26.2596 166.5010 128.2740 2209.64  660.612 396.065 521.061
## ORI_14629_14597  27.2811 184.7450 104.2840 2764.28  442.569 585.589 240.242
## ORI_14631_14598 189.8370 558.8690 284.2930 2447.00  757.536 547.304 477.358
## ORI_14633_14599  88.3620 345.5220 135.3880 3095.96  919.849 499.633 594.035
## ORI_14635_14600  24.6827 192.2540  98.6195 2604.38  946.978 481.864 663.498
## ORI_14639_14602  24.6827 106.5450 103.4170 1817.55  830.169 398.543 494.215
##                  [,618]   [,619]   [,620]  [,621]   [,622]    [,623]  [,624]
## ORI_10219_10218 277.565  279.257  526.889 337.121 310.9570 1642.4800 317.858
## ORI_10735_10730 215.660  416.594  490.162 357.839 161.3730 1268.2300 186.161
## ORI_14605_14585 169.122  512.018  513.498 271.726 198.4380 3290.3500 334.193
## ORI_14607_14586 208.865  475.558  459.506 149.506 139.8000  932.4070 312.577
## ORI_14609_14587 319.514  504.132  575.784 291.808 224.9910 3296.4600 201.907
## ORI_14617_14591 215.741  332.519  554.938 176.506 328.5540 1642.2200 244.320
## ORI_14623_14594 189.110  295.538  782.658 182.160 163.4530  847.2870 293.165
## ORI_14629_14597 146.317  407.373  782.545 256.266 387.8220  362.0570 347.689
## ORI_14631_14598 215.284  615.254  642.987 385.187 285.6980 2201.7600 276.149
```

```
## ORI_14633_14599 157.432  379.390  604.292 198.035 246.9410 2052.3000 435.242
## ORI_14635_14600 234.552  393.912  865.740 173.665 160.1720 2064.6600 368.098
## ORI_14639_14602 218.696  414.512  739.602 209.350 345.0230  352.2320 308.292
##                    [,625]    [,626]   [,627]  [,628]  [,629]  [,630]  [,631]
## ORI_10219_10218 1593.7900   93.9867 140.9080 2155.95 192.448 256.590 105.423
## ORI_10735_10730  746.9080  141.7580 142.4630 2030.59 256.114 448.397 340.058
## ORI_14605_14585 1230.1900  126.7330 202.8820 1638.54 271.367 343.665 185.107
## ORI_14607_14586  854.9990  111.6070  92.6943 1604.12 232.793 455.758 207.402
## ORI_14609_14587 1900.5300  126.9960 131.0740 1015.26 368.739 372.095 180.224
## ORI_14617_14591 1035.0500   86.5509 111.9320 1253.77 201.588 212.759 138.958
## ORI_14623_14594 1214.6300  158.1330 208.4590 1804.20 240.761 183.614 144.116
## ORI_14629_14597 1097.4900  164.9460 218.8550 1603.09 247.641 409.297 693.027
## ORI_14631_14598 1302.9300  128.9720 188.1830 1228.64 357.490 339.726 320.607
## ORI_14633_14599  854.1730  143.2430 234.1400 1492.43 265.237 349.599 140.539
## ORI_14635_14600  586.9070  165.2240 223.0080 1465.01 390.285 212.346 181.217
## ORI_14639_14602  238.6620  207.1860 239.9360 1361.88 321.381 374.245 176.635
##                    [,632]  [,633]  [,634]  [,635]    [,636]  [,637]   [,638]
## ORI_10219_10218  267.0290 284.508 405.827 385.925   43.2824 1888.32 1932.660
## ORI_10735_10730  265.2800 331.559 584.297 467.949   31.9244 1883.05 1329.010
## ORI_14605_14585  314.0720 307.493 582.884 484.494   36.1715 2000.67 1099.730
## ORI_14607_14586  160.7080 392.605 796.996 442.900  688.4500 2660.34 1307.920
## ORI_14609_14587  294.0590 462.295 679.822 402.758  142.0620 1988.87 1431.070
## ORI_14617_14591  235.6730 347.398 624.423 317.109   24.6827 1850.18 1664.800
## ORI_14623_14594  267.5370 388.469 393.447 377.895   28.3533 1568.18 1133.490
## ORI_14629_14597  212.8190 339.608 493.723 408.761   51.5762 1952.60 1277.800
## ORI_14631_14598  482.0990 429.091 848.961 388.459   69.3295 2312.13 1446.800
## ORI_14633_14599  145.1830 329.479 851.452 462.387   37.3114 2037.81 1753.560
## ORI_14635_14600   75.6568 381.126 680.066 516.805   27.9484 1749.00  922.620
## ORI_14639_14602  555.2640 327.623 674.821 499.381   47.7367 2310.39  923.209
##                   [,639]    [,640]  [,641]   [,642]  [,643]  [,644]  [,645]
## ORI_10219_10218 1064.040  732.7620 275.496 339.1250 343.923 256.070 344.355
## ORI_10735_10730 1433.890  827.5690 512.457  79.5886 338.276 438.409 504.237
## ORI_14605_14585 1414.580  711.9520 390.206  55.3011 369.098 364.917 405.988
## ORI_14607_14586 2089.300  672.7880 628.979 152.2540 418.720 346.239 517.443
## ORI_14609_14587 1738.970  732.2260 569.460 227.5770 347.322 439.270 628.238
## ORI_14617_14591 1295.720  743.9800 375.097 219.3210 374.347 222.849 265.971
## ORI_14623_14594 1171.620  539.0590 387.115 138.9110 372.191 220.629 247.724
## ORI_14629_14597  686.438  741.2480 434.469 160.6640 303.279 300.113 303.250
## ORI_14631_14598 2045.780  692.8140 480.361 180.9140 330.700 389.767 614.391
## ORI_14633_14599 1677.740  503.2930 387.376 159.2000 363.290 485.138 398.415
## ORI_14635_14600 1456.380  577.4960 399.203 108.9020 383.415 347.845 381.350
## ORI_14639_14602 1409.590  860.7660 425.864  71.5021 401.391 439.418 389.043
##                   [,646]   [,647]  [,648]   [,649]   [,650]  [,651]   [,652]
## ORI_10219_10218  793.819 362.5210 615.109  281.047 1758.730 201.153 135.9050
## ORI_10735_10730  928.176 196.6930 303.935  758.875 1379.550 333.456 186.0010
## ORI_14605_14585  702.616  82.3032 805.855  814.814 2046.980 233.730 168.9510
## ORI_14607_14586  784.303 398.3920 601.320 1606.280 1678.180 312.142 236.7690
## ORI_14609_14587  861.267 358.0780 491.209 1232.440 2374.720 334.230 278.2720
## ORI_14617_14591  782.521 689.4430 382.168  632.224 1373.770 350.867  76.1261
## ORI_14623_14594  576.989 437.3780 595.360  430.149  799.671 336.356  70.9645
## ORI_14629_14597  914.421 325.9090 751.242  341.942 1837.080 277.977  99.9963
## ORI_14631_14598 1170.700 425.8360 555.655 1003.610 1810.760 198.377 133.5830
## ORI_14633_14599  820.905 243.5890 673.170  283.730 1503.600 374.927 119.4500
## ORI_14635_14600  647.755 211.4120 585.513  200.443 1194.620 282.930 130.9520
```

```
## ORI_14639_14602  809.774 304.0210 568.857  239.260 1222.480 246.156  56.4101
##                   [,653]  [,654]   [,655]  [,656]   [,657]   [,658]   [,659]
## ORI_10219_10218 216.270 225.487 238.5730 340.732 129.9200 110.3740  630.034
## ORI_10735_10730 375.504 484.631 168.7620 245.514 124.4130  76.1645  542.800
## ORI_14605_14585 574.298 350.837 293.5950 419.303 185.9810 102.6540  502.057
## ORI_14607_14586 549.323 277.542 176.6360 293.623 246.6520  47.3212  497.213
## ORI_14609_14587 407.399 320.129 137.9850 365.776 195.5340  82.2392 1016.350
## ORI_14617_14591 348.698 378.915 162.2130 274.231  45.6804  62.3646  646.431
## ORI_14623_14594 379.001 197.547 179.9690 536.095  68.6439 113.6270  401.576
## ORI_14629_14597 377.153 354.820  51.9750 546.168 227.6760  31.5528  495.145
## ORI_14631_14598 499.332 185.113  93.3745 434.767 130.7100  58.2096  471.578
## ORI_14633_14599 348.853 219.000 137.3290 361.471 108.7990  91.5887  371.002
## ORI_14635_14600 455.801 212.198 188.9090 404.496  61.2751  97.1823  398.523
## ORI_14639_14602 460.012 387.857 660.5380 344.427  41.7708  77.2735  370.604
##                    [,660]    [,661]   [,662]  [,663]  [,664]  [,665]   [,666]
## ORI_10219_10218 1221.140  740.8750 363.9150 274.779 553.366 357.857  983.130
## ORI_10735_10730 2233.640 1435.3900 131.6340 394.716 831.594 233.910  997.307
## ORI_14605_14585 1409.420 1369.4300  91.2599 326.924 844.766 243.040  978.201
## ORI_14607_14586 1791.230 2781.2000 178.2660 523.061 586.827 314.696  985.170
## ORI_14609_14587  957.923 1707.2700  80.2505 493.444 852.249 269.325 1171.730
## ORI_14617_14591  932.945  385.9930 352.3240 227.867 310.158 253.895 1433.730
## ORI_14623_14594 1023.540  344.9890 235.5630 209.978 406.958 299.600  935.292
## ORI_14629_14597 1477.210  674.0450 112.6060 236.254 405.054 255.882  969.352
## ORI_14631_14598 1291.450 1346.9000  71.6921 303.909 916.684 247.229  845.881
## ORI_14633_14599  973.854 1063.4300 129.6020 284.735 255.460 277.714 1321.230
## ORI_14635_14600  644.077  618.3990 165.6220 234.262 339.115 336.085 1334.230
## ORI_14639_14602 1481.500  415.1720 125.4950 154.536 388.111 294.765 1039.070
##                    [,667]   [,668]   [,669]  [,670]    [,671]   [,672]   [,673]
## ORI_10219_10218 225.5640  521.844 1163.050 515.787 1106.5300  94.7094  548.458
## ORI_10735_10730 340.9170 1004.150  973.450 756.262  687.2920  95.3001 1391.190
## ORI_14605_14585 420.1010  651.144  944.429 318.026 1094.8200 134.0760  940.834
## ORI_14607_14586 573.9880  578.575 1078.370 421.874  499.4570 294.3900  846.633
## ORI_14609_14587 358.3950  786.986  697.771 606.138 1017.0400 133.8440 1319.720
## ORI_14617_14591 554.3120  736.433  793.000 646.399 1541.7600  24.6827  848.808
## ORI_14623_14594 397.0280  582.830  905.748 359.025 1095.1800  75.8046  464.123
## ORI_14629_14597 410.7790  676.202  884.930 167.221  571.3790 199.4700 1179.920
## ORI_14631_14598 481.3380  630.547  783.950 307.318  382.4350 129.5160 1139.530
## ORI_14633_14599 635.8050  513.981  882.408 273.790  641.0040 266.0570 1868.570
## ORI_14635_14600 292.5720  589.564  894.275 284.372  592.1290 175.5010  943.899
## ORI_14639_14602 128.4240  610.055  859.882 323.033  557.4600 203.1080 1107.160
##                    [,674]    [,675]   [,676]   [,677]   [,678]  [,679]   [,680]
## ORI_10219_10218  551.665  935.6680  86.1034  431.908  617.932 546.680 178.4650
## ORI_10735_10730  739.201  342.7620 457.7040 1231.940  942.235 603.521 300.3590
## ORI_14605_14585  708.551  186.6110 103.7940  918.599  747.987 492.173 172.2650
## ORI_14607_14586  554.712  395.1440  84.0697  318.747  666.050 454.865 380.3430
## ORI_14609_14587  623.217  324.7290 396.4750  539.811  651.335 699.802 267.1760
## ORI_14617_14591 1255.970  866.6740  59.6141  455.839  799.950 488.314  92.0999
## ORI_14623_14594 1141.020  601.6040  52.6971  424.459  933.157 324.869 141.1580
## ORI_14629_14597  805.228  368.1230 523.8120  496.200  678.170 477.833 241.7980
## ORI_14631_14598  740.502  299.3720 280.7740 1336.860  764.347 483.974 294.0170
## ORI_14633_14599 1356.380  520.4610  52.8667  659.192  867.709 507.435 163.0630
## ORI_14635_14600 2001.380  632.8560  71.5776  366.169  873.210 513.091 120.9030
## ORI_14639_14602  866.950  423.5080  39.0956  308.813  742.257 502.841 191.7850
##                    [,681]  [,682]    [,683]  [,684]   [,685]   [,686]   [,687]
```

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## ORI_10219_10218  651.268 541.109 1683.1000 186.330 1607.610  975.143  580.115
## ORI_10735_10730 1485.710 765.987  356.9860 261.232 1381.420  574.928  620.703
## ORI_14605_14585  722.013 829.803  617.4720 178.226 1389.950 1012.620  575.394
## ORI_14607_14586 1345.530 448.569 1023.8400 286.783 1590.820  743.145  822.905
## ORI_14609_14587  950.478 753.625  544.3080 305.250 1612.010  607.194  791.032
## ORI_14617_14591 1228.040 673.943 1446.8500 124.444 2038.870  660.046  444.943
## ORI_14623_14594  645.963 529.516  727.8300 135.633 1222.920  543.711  489.617
## ORI_14629_14597  429.713 541.888  437.6230 351.512 1459.630  455.728  448.253
## ORI_14631_14598  660.172 709.738  398.6560 268.602 1455.290  698.862  859.883
## ORI_14633_14599  760.862 522.375  319.0180 244.389 1480.480  697.261  651.602
## ORI_14635_14600  729.367 752.826  533.5060 165.374 1253.610  916.021  477.526
## ORI_14639_14602  787.665 499.897  333.8470 207.674 1126.440  695.125  905.274
##                   [,688]    [,689]   [,690]  [,691]   [,692]    [,693]  [,694]
## ORI_10219_10218  927.546   98.1440  915.875 2605.40  668.599  303.9290 529.815
## ORI_10735_10730 1056.550  783.9640 1019.420 1774.32  485.179 1881.0300 426.948
## ORI_14605_14585 1121.100  172.6840 1299.580 2497.89  626.750  277.4770 472.037
## ORI_14607_14586  917.738  214.6420 1164.130 1438.24  601.583 1258.0000 365.777
## ORI_14609_14587  702.239  748.3030 1350.500 2414.01  650.428  736.0670 490.307
## ORI_14617_14591 1175.670  135.0000  975.468 2738.57  616.201  452.6660 490.986
## ORI_14623_14594  853.048  115.7230 1198.010 2539.43  536.700  101.8130 494.769
## ORI_14629_14597  936.310  539.3030 1597.750 1770.93  823.952 1740.8400 324.172
## ORI_14631_14598  707.908  255.0650 1364.630 2475.58  534.035 1501.3500 346.185
## ORI_14633_14599  821.861  164.9000 1099.890 2443.38  483.631  456.1350 672.386
## ORI_14635_14600  743.396   80.9490 1103.860 2566.92  460.370  219.2230 561.866
## ORI_14639_14602  665.726  424.6730  725.603 2695.24  525.014  717.4370 473.307
##                   [,695]  [,696]   [,697]   [,698]  [,699]   [,700]   [,701]
## ORI_10219_10218 270.0290 485.284  334.209 2126.140 325.081 251.3320  517.867
## ORI_10735_10730 524.0120 797.631  764.902  769.492 328.582 195.5840 1186.400
## ORI_14605_14585 324.5550 555.130  459.291 1265.050 172.676 108.5010 1235.130
## ORI_14607_14586 454.7160 497.471  833.559  945.958 201.839 224.0140  728.975
## ORI_14609_14587 678.8450 813.553  670.383 1780.870 490.386 303.1070  801.895
## ORI_14617_14591 236.9680 583.433  342.408 1561.540 395.773 567.0560  585.112
## ORI_14623_14594 118.1920 735.743  356.822 1878.490 209.009 305.4140  351.364
## ORI_14629_14597 362.0140 684.505  652.172 1349.760 709.626 262.9760  908.404
## ORI_14631_14598 232.8630 654.417  993.080 1006.350 402.909 246.9390  838.176
## ORI_14633_14599  31.8321 808.631  399.716 1398.020 318.103 173.9460  539.228
## ORI_14635_14600 104.9950 580.712  399.078 1184.200 218.640 221.0400  514.647
## ORI_14639_14602 412.9350 540.924  524.167 1474.100 162.864 135.1690  782.067
##                   [,702]   [,703]   [,704]   [,705]   [,706]   [,707]  [,708]
## ORI_10219_10218  566.570 1170.620  573.760  936.535 1051.770  841.236 1757.22
## ORI_10735_10730  857.269 1377.810  738.316  823.778 1378.800  788.656 1749.15
## ORI_14605_14585  892.976 1384.090  907.657  946.756 1484.390  571.415 2284.66
## ORI_14607_14586 2027.620 2599.190 1122.880  906.344 1990.700  825.697 1576.30
## ORI_14609_14587 1020.530 1895.200 1080.220  682.148 1794.910  612.705 1807.54
## ORI_14617_14591  364.083 1260.720  422.279  404.632 1012.180  897.085 2260.04
## ORI_14623_14594  523.927 1159.550  431.495  748.002  884.906  540.927 1713.32
## ORI_14629_14597  842.930 1259.610  955.151  820.315  884.699  632.912 1895.74
## ORI_14631_14598 1115.710 1879.870 1049.260  841.009 1328.570  866.484 2329.84
## ORI_14633_14599  767.405 1558.400  852.268  820.870 1439.140  557.553 1585.27
## ORI_14635_14600  721.426 1395.160  659.978  691.755 1449.870  727.710 1926.07
## ORI_14639_14602  604.930 1155.410  569.885  614.010 1057.320  777.577 1699.40
##                   [,709]   [,710]  [,711]   [,712]  [,713]  [,714]  [,715]
## ORI_10219_10218  390.0960  538.001 175.043 115.5460 591.124 375.270 650.581
## ORI_10735_10730   24.6827  482.380 102.373 250.4070 662.352 300.073 518.364
```

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## ORI_14605_14585   24.6827  481.497 204.031  81.0294 777.075 331.591 546.402
## ORI_14607_14586  166.3950 1029.120 138.745 155.9760 630.367 433.293 486.187
## ORI_14609_14587   36.3398  555.738 177.690 412.2160 693.109 279.927 426.236
## ORI_14617_14591  646.0070  249.528 147.658  58.4612 549.634 246.692 456.520
## ORI_14623_14594  301.0470  275.749 142.804 116.3060 417.692 331.383 579.653
## ORI_14629_14597   24.6827  226.562 339.504  75.6418 595.924 347.192 617.216
## ORI_14631_14598   24.6827  356.438 159.391 188.3870 504.407 261.277 662.352
## ORI_14633_14599   26.1566  466.200 131.830 157.3560 630.790 348.790 492.893
## ORI_14635_14600   55.8089  315.681 144.490 217.4890 659.609 278.670 565.142
## ORI_14639_14602   24.6827  166.132 313.775  99.7304 461.072 258.176 598.342
##                  [,716]   [,717]  [,718]    [,719]  [,720]  [,721]  [,722]
## ORI_10219_10218 250.596  99.7513 357.937  177.8260 431.885 221.259 231.414
## ORI_10735_10730 203.996 143.2270 451.869  472.1190 285.914 395.647 211.795
## ORI_14605_14585 295.133 206.0680 365.909  286.1110 388.911 338.070 298.179
## ORI_14607_14586 313.878 342.7350 331.321   85.3490 229.980 198.538 106.547
## ORI_14609_14587 237.261 257.4030 313.170  423.4450 222.272 407.555 149.300
## ORI_14617_14591 421.269  48.3056 389.120  617.9550 229.851 291.933 109.307
## ORI_14623_14594 311.627  24.6827 322.122  599.2910 328.824 275.134 239.030
## ORI_14629_14597 228.823  60.5518 479.535  640.8730 304.183 135.231 175.750
## ORI_14631_14598 284.825 163.4910 308.050  122.1610 251.637 355.263 174.357
## ORI_14633_14599 390.824  82.6195 580.025 1137.4700 388.539 355.288 202.554
## ORI_14635_14600 444.147  39.4450 368.394 1163.9300 378.208 317.564 192.931
## ORI_14639_14602 246.865  24.6827 323.170 1584.8100 343.169 333.475 422.580
##                  [,723]    [,724]  [,725]  [,726]  [,727]  [,728]   [,729]
## ORI_10219_10218 505.111   96.5947 294.659 311.633 356.713 537.643 452.6270
## ORI_10735_10730 568.659  237.5880 399.720 381.856 864.453 651.468  30.7134
## ORI_14605_14585 446.196   94.1378 249.496 306.501 454.970 655.491 480.8700
## ORI_14607_14586 500.362   98.4154 208.778 460.269 379.468 334.865 147.5870
## ORI_14609_14587 522.216  152.8340 361.480 291.093 536.158 711.718 275.5510
## ORI_14617_14591 497.763   75.7896 248.021 430.947 450.456 625.724 101.6960
## ORI_14623_14594 389.038  126.4040 197.863 208.029 342.726 390.770  96.9017
## ORI_14629_14597 456.267   83.7333 306.833 339.974 373.270 391.314  47.6340
## ORI_14631_14598 481.750  193.4590 352.418 335.549 467.163 582.441 155.1670
## ORI_14633_14599 644.808  157.5120 261.356 350.260 683.078 544.880  46.6928
## ORI_14635_14600 503.778  205.6080 222.946 174.955 403.063 598.087  97.9602
## ORI_14639_14602 496.149  224.3460 272.023 201.540 541.076 963.163  25.0431
##                  [,730]   [,731]    [,732]   [,733]    [,734]   [,735]  [,736]
## ORI_10219_10218 229.7950  24.6827   24.6827 331.6500  794.6410 353.8520 365.290
## ORI_10735_10730 410.4740 282.6910   91.2094 184.7280 1226.4900 428.7470 522.626
## ORI_14605_14585 233.6810 157.5050   73.3604 395.1300  661.9770 391.8240 522.906
## ORI_14607_14586 312.9850  38.7757  273.6400 628.9360  504.3350 215.9760 421.532
## ORI_14609_14587 365.1070 119.5220   73.1113 325.6100  872.5810 640.8030 451.535
## ORI_14617_14591 254.9060  24.6827   24.6827 428.6980 1174.4600 284.6630 562.386
## ORI_14623_14594 259.3650 172.4930   24.6827 210.7910  976.4890 127.5080 439.372
## ORI_14629_14597 263.1020  68.0502   87.9304 124.7330 1592.5000 147.9770 595.313
## ORI_14631_14598 274.2710 116.6490   85.8979 194.4410  630.3620 227.3010 407.246
## ORI_14633_14599 597.3780 133.1260   24.6827 103.9240 1093.4400 583.0940 587.466
## ORI_14635_14600 296.0630 256.2440   24.6827  73.6567  887.9120 200.9980 764.133
## ORI_14639_14602 291.9700 575.0410   25.0629 119.5820  709.4620 435.7250 999.264
##                  [,737]   [,738]   [,739]   [,740]    [,741]  [,742]   [,743]
## ORI_10219_10218  999.946  37.8265  74.2751  717.912  311.5640 1168.21 140.8200
## ORI_10735_10730  773.262 192.4670 176.4120  648.792  662.2760 2608.97 182.7870
## ORI_14605_14585 1893.500  67.6452 165.4310  612.115  346.5190 1922.49 188.9810
## ORI_14607_14586 1612.990  30.2361 293.5140  591.086  802.2940 1989.23 362.5980
```

```
## ORI_14609_14587 1926.420  77.7140 195.0290  765.887  723.9440 2128.22 266.4060
## ORI_14617_14591 1598.100  24.6827  38.9638  923.125   83.7050 1566.55 104.8490
## ORI_14623_14594 1756.340  74.4888  77.5381  756.432  110.4380 1330.39 140.9230
## ORI_14629_14597 1734.010  38.3062 155.1190  565.089  174.5290 1148.79 164.6170
## ORI_14631_14598 1658.940  53.1194 111.2650  834.495  445.2470 1855.59 185.6750
## ORI_14633_14599 1413.370 100.6510 102.1730  732.710  100.7720 2231.39 124.2110
## ORI_14635_14600 2351.960 125.1850  69.5183  663.767  146.8570 1626.42 127.3360
## ORI_14639_14602 1625.410 158.4750  65.9205  600.061  215.9910 2387.43 128.7370
##                   [,744]  [,745]  [,746]   [,747]   [,748]  [,749]   [,750]
## ORI_10219_10218 255.1600 527.563 179.466  731.900 292.2970 409.484  84.7438
## ORI_10735_10730 201.3250 602.725 214.236  747.666 197.9550 257.329 195.3410
## ORI_14605_14585 231.7170 556.249 220.265  821.314 194.8470 434.897 142.1690
## ORI_14607_14586 274.2680 573.957 255.416  832.091 119.1270 251.727 328.5800
## ORI_14609_14587 398.1320 687.596 335.996  665.034 284.1270 214.235 372.0160
## ORI_14617_14591 191.3760 515.341 184.394  505.534 225.0840 301.785 129.0350
## ORI_14623_14594 160.5830 500.892 184.712  379.626 225.1510 259.621 126.2680
## ORI_14629_14597 235.0770 288.488 177.215  357.932 271.2360 179.551 199.2180
## ORI_14631_14598 282.9060 681.180 236.153  625.106 183.4540 428.877 282.6680
## ORI_14633_14599 104.4900 725.010 417.998  542.829 251.8750 291.852 176.2230
## ORI_14635_14600 198.5700 753.697 304.848  376.452 177.5650 257.899 130.0590
## ORI_14639_14602 160.2810 666.778 163.137  511.987 155.6840 335.668 116.3530
##                  [,751]  [,752]   [,753]    [,754]    [,755]   [,756]    [,757]
## ORI_10219_10218 246.261 350.565 1512.220 2297.9400 1197.2900 3973.970  475.4380
## ORI_10735_10730 326.418 574.273 1445.100  623.3130   60.7538  828.328  476.3500
## ORI_14605_14585 296.986 505.892  685.887 2159.8800   73.5476 1993.220  498.2740
## ORI_14607_14586 280.171 575.404 1171.310 2039.6600  242.9470 1785.960  428.2100
## ORI_14609_14587 301.394 500.014 1315.070 2285.3900   43.3662 3089.170  646.5180
## ORI_14617_14591 270.118 501.452 1483.180 2917.4400  545.6340 3308.560  472.4960
## ORI_14623_14594 231.149 489.227  654.564 2708.1300  304.0840 2051.710  374.3920
## ORI_14629_14597 307.739 542.744 2356.770  804.5150   24.6827 1274.010 1061.8900
## ORI_14631_14598 245.407 632.069 1126.550 3206.0300   49.4848 1264.520  616.2270
## ORI_14633_14599 231.236 555.977  910.766 1036.6400  226.2670 1168.170  531.4590
## ORI_14635_14600 321.645 730.146  931.896 1470.0100  217.9250 1824.410  289.5840
## ORI_14639_14602 337.381 611.905  793.285  955.0320  130.9190 1121.080  307.3710
##                   [,758]  [,759]   [,760]    [,761]   [,762]  [,763]  [,764]
## ORI_10219_10218  875.377 1341.69 1126.470 2073.5000 1418.660 460.948 2508.54
## ORI_10735_10730 1609.420 1720.30  539.990  233.8630 1051.560 724.072 2537.41
## ORI_14605_14585 1082.680 1450.89  407.661  623.7650  699.531 462.858 2279.55
## ORI_14607_14586 2126.500 1692.80  625.699  937.0650  838.938 428.563 2483.84
## ORI_14609_14587 2141.830 1655.95  655.745  448.3710 1174.030 754.322 2237.68
## ORI_14617_14591 1106.890 1690.86  776.591 2309.7300  826.288 537.892 2792.11
## ORI_14623_14594 1106.920 1518.34  591.941 1580.2600  921.024 367.243 2267.47
## ORI_14629_14597 1297.240 3797.82  732.678  440.8680  328.435 506.924 2813.80
## ORI_14631_14598 1623.760 1967.45  337.369  632.1240  887.572 681.133 2511.78
## ORI_14633_14599 1267.110 1722.72  630.784  804.8620 1107.180 460.430 3225.94
## ORI_14635_14600 1038.570 1738.22  597.256 1353.4800  602.561 429.004 2576.59
## ORI_14639_14602 1195.730 1913.22  633.059 1162.2400  472.229 402.893 3166.04
##                  [,765]  [,766]   [,767]  [,768]   [,769]   [,770]   [,771]
## ORI_10219_10218 2534.61 2198.93  828.001 2853.68 1643.250 1226.840 1088.630
## ORI_10735_10730 2753.76 2256.21 1089.890 2207.15 2060.850  961.219 1165.020
## ORI_14605_14585 1913.28 2199.89  624.907 3355.99 1678.800  966.121 1397.770
## ORI_14607_14586 2208.37 2138.25  734.307 3226.70 1844.680 1065.470 1371.530
## ORI_14609_14587 2004.04 1681.06  830.825 3134.72 1942.220 1033.640 1487.280
## ORI_14617_14591 2730.59 2552.48  800.766 2536.08 2068.220 1029.570 1230.700
```

```
## ORI_14623_14594 2117.08 2528.41  602.127 2179.12 1482.590  719.365 1141.270
## ORI_14629_14597 2205.01 1406.14  667.141 2666.55 1515.620  830.835 1343.320
## ORI_14631_14598 2709.35 1792.32  889.403 2816.51 2199.490 1030.570 1477.850
## ORI_14633_14599 2688.94 2480.83  723.037 3083.94 2029.090 1055.480 1456.120
## ORI_14635_14600 2397.37 3184.14  558.416 2871.09 1756.460  723.655 1298.630
## ORI_14639_14602 2685.95 2501.02  959.246 3020.52 1535.460  922.608 1471.600
##                   [,772]  [,773]  [,774]   [,775]  [,776]  [,777]   [,778]
## ORI_10219_10218 1971.830 1650.11 2111.37 1205.840 2060.72 2119.31 1776.280
## ORI_10735_10730 1416.180 1949.73 1221.34  975.614 2314.30 2212.40 1509.030
## ORI_14605_14585 1542.120 1723.97 1610.94 1135.320 3361.75 2351.63 1232.820
## ORI_14607_14586 1754.800 2133.72 1339.50 1481.080 1668.00 2377.52 1323.130
## ORI_14609_14587 1885.940 2174.19 1554.18 1231.500 2220.33 2249.12 1414.130
## ORI_14617_14591 1789.460 1632.10 1579.21 1379.500 1521.73 2270.51 1562.000
## ORI_14623_14594 1079.570 1157.53 1104.55 1022.570 1187.22 1890.25 1110.430
## ORI_14629_14597 1343.640 1977.71 1035.48  923.535 1482.91 1589.82  882.844
## ORI_14631_14598 1548.580 2074.96 1447.35 1496.240 2463.76 2241.29 1266.980
## ORI_14633_14599 2124.510 1683.79 1399.90 1419.320 1841.97 2675.25 1720.980
## ORI_14635_14600  847.374 1136.63 1369.96 1341.680 1445.20 2253.50 1218.340
## ORI_14639_14602 1403.310 2179.54 1182.16  981.527 1499.32 2065.08 1384.760
##                  [,779]   [,780]   [,781]   [,782]  [,783]   [,784]   [,785]
## ORI_10219_10218 1646.94  842.305 2146.310 1502.430 3502.11 1895.590 1981.900
## ORI_10735_10730 1483.52 1274.390  846.033 1149.680 3275.39 1405.150 1311.580
## ORI_14605_14585 1330.09  766.469 1020.010 1467.570 2937.20 1338.500  993.499
## ORI_14607_14586 1597.11 1298.640 1344.590 1533.870 3224.35 1716.350 1423.970
## ORI_14609_14587 1250.79 1092.640  971.219 1269.680 2569.23 1138.010 1326.110
## ORI_14617_14591 1360.11  740.344 1872.860 1466.380 3407.14 1687.660 2101.110
## ORI_14623_14594 1195.98  673.007 1321.090 1186.450 2872.00 1317.290 1367.940
## ORI_14629_14597 1475.15  661.777 1222.400 1101.630 2744.96  852.668 1229.770
## ORI_14631_14598 1315.48 1124.070  942.171 1655.700 2694.26 1499.260 1286.920
## ORI_14633_14599 1256.21 1039.010 1157.870 1120.030 2739.65 1352.390 1460.310
## ORI_14635_14600 1109.62  685.142  929.892 1074.090 2152.27 1255.970 1411.150
## ORI_14639_14602 1044.41  864.100  686.715  887.584 2309.80  943.818  982.841
##                   [,786]   [,787]   [,788]   [,789]   [,790]    [,791]   [,792]
## ORI_10219_10218 1703.410 1438.810 1493.230 1395.250  806.101 1228.9600 1066.500
## ORI_10735_10730 1201.010  837.219  915.225 1114.420  781.023  298.8140  385.622
## ORI_14605_14585  719.625  700.857 1127.760 1528.930 1003.650  233.6520  530.479
## ORI_14607_14586 1827.730 1020.610 1287.090 1546.480 1129.370  319.6070  784.479
## ORI_14609_14587 1105.550 1111.310 1141.210 1401.320 1372.290  297.1700  771.294
## ORI_14617_14591 1732.050 1202.220 1517.610 1187.350  938.786 1301.8200 1119.260
## ORI_14623_14594  783.982  772.006  926.744 1096.970 1064.980  527.8340  619.876
## ORI_14629_14597  962.737  996.818  793.296 1332.820  965.177  153.9260  481.965
## ORI_14631_14598  902.901  838.734 1168.810 1371.970 1231.440  278.9260  589.479
## ORI_14633_14599  849.075  954.459 1101.210 1239.090  889.674  812.1330  820.158
## ORI_14635_14600  895.997  632.284  928.742 1237.140  934.964  686.3190  765.146
## ORI_14639_14602  900.702  576.505  935.265 1069.280 1288.590  201.8990  458.576
##                    [,793]   [,794]   [,795]  [,796]   [,797]   [,798]  [,799]
## ORI_10219_10218 2089.5800 493.6680  760.293 436.116 2113.420  597.964 243.938
## ORI_10735_10730  403.9040  89.1261  470.457 399.726  788.837  516.356 480.861
## ORI_14605_14585 1454.3000 114.5220 1152.640 419.411 1346.220  476.369 233.508
## ORI_14607_14586  580.7750 186.0870 1052.140 353.768  982.687  612.095 262.017
## ORI_14609_14587  715.8530 120.4570 1101.070 336.078 1296.680  596.192 558.744
## ORI_14617_14591 1427.3400 574.8050  900.584 325.355 2056.120  686.615 452.112
## ORI_14623_14594  969.4490 362.5710 1309.070 422.198 1714.580  445.426 265.063
## ORI_14629_14597  396.1790 107.5720 1130.620 438.284  994.269  522.188 476.303
```

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## ORI_14631_14598  362.3340 109.9260 1021.170 439.984  995.788  529.642 463.688
## ORI_14633_14599  584.6830 206.0670 1010.260 374.656 1576.460  467.218 323.420
## ORI_14635_14600  951.0810 212.9470 1187.970 429.813 1490.310  412.096 348.391
## ORI_14639_14602  523.8600 227.8970 1107.910 336.195  996.073  207.886 236.996
##                  [,800]   [,801]   [,802]  [,803]  [,804]   [,805]   [,806]
## ORI_10219_10218 364.851 317.2880  837.349 379.875 332.286  24.6827  673.226
## ORI_10735_10730 269.239 164.6460  857.369 325.065 570.530 271.1900 1163.130
## ORI_14605_14585 314.138 193.3690  576.899 310.913 524.284 165.9820  935.271
## ORI_14607_14586 232.646 173.6340  717.801 349.141 538.549  46.0686  920.447
## ORI_14609_14587 300.591 102.0020  946.365 387.887 531.957 119.0480 1010.280
## ORI_14617_14591 444.025 397.1950 1028.540 443.541 389.025  31.0613 1125.560
## ORI_14623_14594 363.434 287.8730  732.404 241.693 339.367 184.2350 1399.180
## ORI_14629_14597 314.798 183.2380  192.751 254.204 550.363  76.1863  655.586
## ORI_14631_14598 377.241 196.1870 1019.620 280.565 546.612 117.2440 1576.080
## ORI_14633_14599 285.295 192.8870  478.979 279.707 568.582 148.2730  853.281
## ORI_14635_14600 363.022 234.4910  688.235 440.975 551.890 211.5360  913.165
## ORI_14639_14602 165.480 187.4570  892.536 329.294 550.438 272.7890  474.164
##                  [,807]   [,808]  [,809]   [,810]  [,811]  [,812]   [,813]
## ORI_10219_10218 174.615 139.4810 476.317  909.629 485.651 523.247  62.7682
## ORI_10735_10730 150.609 240.6980 211.470 1213.260 506.490 665.462  24.6827
## ORI_14605_14585 175.630 266.8890 308.762 1268.390 679.424 587.080  24.6827
## ORI_14607_14586 254.502 247.3510 371.176 1056.820 606.791 617.272  24.6827
## ORI_14609_14587 213.490 384.1560 279.264 1520.500 762.177 731.685  45.6526
## ORI_14617_14591 130.381 205.1060 348.058 1110.930 331.871 629.740  24.6827
## ORI_14623_14594 126.475 234.3100 351.462 1319.260 424.218 588.369  39.1235
## ORI_14629_14597 185.477 370.1530 236.910 1862.140 359.080 599.643  71.3020
## ORI_14631_14598 254.320 223.4760 217.088 1854.880 665.692 751.832 173.6580
## ORI_14633_14599 139.446 372.7940 264.023 1389.330 362.127 636.076  69.6635
## ORI_14635_14600 143.764 239.0390 372.482 1300.000 467.018 530.428  38.2445
## ORI_14639_14602 132.006 105.3690 250.475 1216.970 295.268 608.208  24.6827
##                   [,814]  [,815]   [,816]   [,817]  [,818]    [,819]  [,820]
## ORI_10219_10218 134.6990 4421.76  68.2514 229.9800 300.872 1362.5200 411.642
## ORI_10735_10730 226.7300 6173.64  34.8918  67.7653 379.230  771.4770 331.421
## ORI_14605_14585 143.2190 7237.25 117.1150  41.8172 351.078 1209.1500 321.639
## ORI_14607_14586 156.6430 8043.99  64.6943  64.0658 281.990  490.2910 406.657
## ORI_14609_14587 245.8120 7375.47  49.4973  52.9700 303.603  555.0930 261.684
## ORI_14617_14591 109.8330 4242.99 145.4760 138.3700 332.545 1378.0500 325.871
## ORI_14623_14594  97.6188 5161.96 294.1050 139.4690 283.706  896.3940 312.593
## ORI_14629_14597 154.0950 5343.68 236.7270  54.2674 208.806  503.7360 342.087
## ORI_14631_14598 186.5150 5882.41 165.6820  61.7629 417.639 1272.6900 332.820
## ORI_14633_14599 175.2790 6890.18  83.9567  80.5662 304.132  825.7610 318.668
## ORI_14635_14600 132.3930 4812.93 288.4700 163.9040 274.726  725.2710 296.401
## ORI_14639_14602 100.2980 5529.77 125.8840  54.2530 280.484  745.3940 214.918
##                  [,821]   [,822]  [,823]   [,824]   [,825]   [,826]  [,827]
## ORI_10219_10218 306.016 2211.330 313.535  466.265 171.2890 105.6700 503.560
## ORI_10735_10730 251.106  808.814 592.521  900.089 177.3000 134.6680 518.602
## ORI_14605_14585 320.046  783.813 414.833  615.141  60.4880 154.7180 371.043
## ORI_14607_14586 324.183  750.708 415.185  614.152  97.4910  77.3524 480.474
## ORI_14609_14587 243.985  895.023 420.600  654.040  93.5360 185.9990 378.081
## ORI_14617_14591 148.864 1870.940 496.183  768.775 183.0130  69.8789 408.044
## ORI_14623_14594 331.117 1245.430 560.198  570.389 122.0040 155.9060 255.156
## ORI_14629_14597 225.956 1183.580 384.447 1678.050  42.5357 167.9700 495.548
## ORI_14631_14598 277.146  864.401 455.680  940.776  74.2203 117.7480 274.386
## ORI_14633_14599 282.312  935.675 483.339  764.645 143.1850 163.6150 158.591
```

```
## ORI_14635_14600 281.782 1050.930 418.951  896.856 135.7520 178.5110 248.022
## ORI_14639_14602 195.184  604.352 353.817  812.784 537.1580  65.3186 500.705
##                   [,828]   [,829]    [,830]   [,831]  [,832]  [,833]   [,834]
## ORI_10219_10218 1613.960 1402.620  148.2440  886.429 207.207 364.968 117.2400
## ORI_10735_10730 1980.900  693.158  430.8400  269.791 474.276 394.736 340.8120
## ORI_14605_14585 1917.350 1041.600  219.8640  528.119 294.700 471.263 227.6610
## ORI_14607_14586 1166.220  418.569  428.4810  476.722 618.603 369.283 157.1370
## ORI_14609_14587 2106.980  647.453  220.6740  349.065 452.053 410.870 393.6960
## ORI_14617_14591 1687.640  686.331   94.7884 1264.700 233.817 409.392 125.3960
## ORI_14623_14594 1467.420  434.009  156.6120  513.594 247.185 396.061 149.3790
## ORI_14629_14597 1858.750  584.006  317.4810  321.598 535.900 412.581 359.9640
## ORI_14631_14598 3099.190  857.499  638.7660  400.405 502.199 537.620 327.6830
## ORI_14633_14599 2973.670  624.996  140.9160  244.189 373.171 508.714 302.9060
## ORI_14635_14600 1436.270  756.145  136.7560  508.074 338.078 487.876 223.9630
## ORI_14639_14602 1646.540  498.445  199.9230  426.168 441.445 363.072 314.3850
##                   [,835]   [,836]  [,837]  [,838]   [,839]   [,840]   [,841]
## ORI_10219_10218  728.500 1208.290 547.390 109.618  907.507 467.2800  595.391
## ORI_10735_10730  685.883 1559.360 690.740 196.190  639.000 244.7750  255.530
## ORI_14605_14585  701.976 1541.290 622.555 162.699  471.222 221.8600  150.933
## ORI_14607_14586  701.834 1211.390 599.283 273.790  416.250 235.2580  232.725
## ORI_14609_14587  632.168 1106.570 907.504 174.401  391.322 305.3960  153.067
## ORI_14617_14591  639.343 1031.490 675.416 123.708  693.763 774.5470  491.116
## ORI_14623_14594  592.448 1449.310 464.571 127.632  706.320 580.0970  265.990
## ORI_14629_14597  632.732 1780.080 713.295 550.786  644.757 249.2020  162.683
## ORI_14631_14598  811.534 1510.390 488.087 203.185  511.664 140.2790  136.609
## ORI_14633_14599  511.264 1407.860 558.486 337.809  462.035 525.9090  190.821
## ORI_14635_14600  571.195 1400.490 560.826 191.734  433.013 566.3940  166.571
## ORI_14639_14602  719.755 1404.750 686.910 217.130  400.131 526.5590  128.421
##                  [,842]    [,843]   [,844]  [,845]  [,846]  [,847]   [,848]
## ORI_10219_10218 373.267  245.7690 1187.250 421.529 244.147 452.929  76.3244
## ORI_10735_10730 182.572  457.1010 1533.890 367.706 347.490 630.869 510.5090
## ORI_14605_14585 449.283  221.2770 1487.940 356.306 244.321 547.234 418.5710
## ORI_14607_14586 387.818  192.3980 1113.290 308.024 367.936 536.430 196.6470
## ORI_14609_14587 694.883  113.3170 1584.640 160.413 306.944 501.578 706.3760
## ORI_14617_14591 452.459  172.6920  994.610 236.990 201.813 794.985 200.9700
## ORI_14623_14594 419.777  282.2690 1068.380 371.248 268.627 672.932 279.5050
## ORI_14629_14597 515.631  164.5630 1186.200 131.096 310.871 585.167 344.4630
## ORI_14631_14598 368.702  205.2910 1519.170 225.190 297.614 629.578 424.1290
## ORI_14633_14599 382.165  432.3480 1568.300 293.739 290.247 554.985 471.8790
## ORI_14635_14600 293.054  195.3750 1469.440 228.671 277.618 609.279 434.0910
## ORI_14639_14602 213.578 1303.9900 1252.910 281.582 292.121 520.667 578.6040
##                   [,849]  [,850]  [,851]   [,852]  [,853]  [,854]   [,855]
## ORI_10219_10218 4225.250 1352.80 383.723 1099.040 548.093 259.031  432.126
## ORI_10735_10730 2105.760 2338.85 702.269 1514.230 571.834 470.172  822.985
## ORI_14605_14585 1787.260 1931.06 518.124 1326.400 586.655 442.788  436.241
## ORI_14607_14586 2776.500 1772.91 412.298 1420.630 415.418 275.991  637.824
## ORI_14609_14587 1559.310 1723.69 377.588 1243.540 665.983 486.032  845.761
## ORI_14617_14591 4132.080 1795.58 459.572 1597.250 674.203 312.203  746.407
## ORI_14623_14594 3232.910 1639.10 531.332 1527.370 652.984 361.644  543.388
## ORI_14629_14597  760.069 1072.74 342.475 1085.990 351.385 187.027  942.978
## ORI_14631_14598 1077.440 1498.92 399.806 1358.660 560.874 297.307  813.039
## ORI_14633_14599 2778.190 1558.74 564.794 1515.750 755.146 291.566  556.785
## ORI_14635_14600 3264.200 2106.83 509.879 1726.690 879.239 554.475  600.230
## ORI_14639_14602 2785.570 1444.04 471.193 1389.750 671.590 271.844  657.451
```

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##                  [,856]   [,857]  [,858]   [,859]  [,860]   [,861]   [,862]
## ORI_10219_10218 324.839  708.495 293.665  463.972 417.206 1099.530  651.357
## ORI_10735_10730 457.604  598.908 307.494  474.428 544.567  661.915 1160.690
## ORI_14605_14585 325.413  807.793 319.681  454.450 453.732  889.724  775.260
## ORI_14607_14586 512.963  501.969 339.991  515.466 435.448  742.919  737.075
## ORI_14609_14587 642.292  870.835 338.180 1168.010 905.933 1191.970 1076.830
## ORI_14617_14591 335.559  532.797 362.237  425.471 607.910  534.384  574.045
## ORI_14623_14594 329.687  853.133 335.024  446.022 432.210  597.566  414.781
## ORI_14629_14597 462.908  664.052 340.897 1116.280 649.613  767.776  468.404
## ORI_14631_14598 415.255  559.415 367.917  814.630 582.883  819.344 1094.300
## ORI_14633_14599 492.930  944.252 239.825 1072.530 637.679  633.194  474.163
## ORI_14635_14600 352.996  770.435 368.282  356.401 445.962  336.960  643.972
## ORI_14639_14602 382.738  408.403 315.480   45.521 178.001  248.341  330.060
##                  [,863]   [,864]    [,865]   [,866]   [,867]    [,868]  [,869]
## ORI_10219_10218 529.973 1543.440 1690.9100  302.231 1024.980 2226.8500 532.045
## ORI_10735_10730 947.238  585.581 1893.4000  440.567 1305.590   79.0719 451.907
## ORI_14605_14585 662.521  689.344 2114.4800  170.834 1120.580 1201.9300 319.458
## ORI_14607_14586 794.520  693.182  137.8780  327.345 1628.920  280.2890 424.216
## ORI_14609_14587 711.728  733.923 2101.1600  543.101 1300.300  787.1090 601.883
## ORI_14617_14591 490.218 1544.340 2093.2700  247.785 1067.170  553.1910 578.281
## ORI_14623_14594 498.414 1196.600 3381.9700  192.909  869.575  726.8450 331.631
## ORI_14629_14597 529.555 2426.300  312.9190  429.876 1176.350  128.6060 406.635
## ORI_14631_14598 717.862  939.619  954.8930  435.841 1665.930  185.4380 460.560
## ORI_14633_14599 558.244 1098.310 4489.1700  298.941  880.923  104.9390 451.242
## ORI_14635_14600 437.938 1196.930 3868.1800  197.402 1090.690  903.5090 425.295
## ORI_14639_14602 688.969 1180.260 1998.4700  213.036  993.575  392.8400 254.562
##                   [,870]   [,871]   [,872]    [,873]  [,874]  [,875]   [,876]
## ORI_10219_10218  96.5606 162.2440  65.2763  163.2190 529.515 285.864 236.9740
## ORI_10735_10730 296.3100 203.3110 154.1100  921.5670 631.791 364.353 147.9600
## ORI_14605_14585 111.6460 273.2030 163.6280  467.6500 460.036 305.271  78.0036
## ORI_14607_14586 150.3450 232.3170 142.8890   68.3369 544.003 223.739  97.9286
## ORI_14609_14587 140.7710 378.4350 142.6540  604.9070 538.862 459.362 119.2350
## ORI_14617_14591  64.3939 165.5430 127.2220  342.9030 361.303 154.421 154.0370
## ORI_14623_14594 112.3640 129.8090 128.3270  398.6980 401.547 261.059 142.1070
## ORI_14629_14597 363.0050 304.4040 138.3280  409.9810 652.026 225.054  62.2779
## ORI_14631_14598 155.3920 358.4970 111.1050  542.5410 552.417 391.356  84.7442
## ORI_14633_14599 118.5760 165.4130 243.7530  798.0680 478.453 272.430 122.9230
## ORI_14635_14600 128.0450 180.4380 218.9970  599.2250 485.413 333.536 170.3950
## ORI_14639_14602 239.7880  79.5603 212.6450  631.8000 523.936 206.496 270.1600
##                   [,877]    [,878]   [,879]  [,880]   [,881]    [,882]   [,883]
## ORI_10219_10218 288.1270  146.2850  88.2586 299.815  635.037   95.2672  772.503
## ORI_10735_10730 354.2080  151.2150 107.4320 532.852  267.333  326.5070 2323.960
## ORI_14605_14585 346.3840  137.1160  96.9895 313.370  469.950   96.6161 1367.250
## ORI_14607_14586 225.4870 1255.1400 144.5320 245.210  521.957  626.8180 1517.350
## ORI_14609_14587 546.3030  322.3780 106.2840 436.751  413.875  733.0570 2035.120
## ORI_14617_14591 313.9160   40.5427  81.5257 217.337  865.967   40.3263 1389.230
## ORI_14623_14594 249.0240   66.7502  78.5891 193.659  510.248   82.8983 1904.200
## ORI_14629_14597 153.6560   75.6526  84.5122 238.376  443.268  136.4680 1487.660
## ORI_14631_14598 293.0270  188.5980 100.5310 348.637  256.214  595.9110 1614.850
## ORI_14633_14599 184.8540   73.1928 118.8720 330.715  370.050   91.8726 2158.270
## ORI_14635_14600 313.4950   50.0707 106.9840 186.371  395.713   84.0332 2419.490
## ORI_14639_14602 155.8180   60.4506 133.7560 240.231  252.374  148.4060 1958.000
##                   [,884]  [,885]  [,886]   [,887]   [,888]  [,889]  [,890]
## ORI_10219_10218 244.8310 329.752 132.739 225.9810  407.597 281.330 246.914
```

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## ORI_10735_10730 163.5590 381.014 382.265 247.1450  351.920 353.819 347.249
## ORI_14605_14585 275.3650 228.407 289.022 135.4790  255.398 406.061 448.335
## ORI_14607_14586 234.9040 373.750 216.566 203.4540  292.910 257.229 275.601
## ORI_14609_14587 290.7400 331.945 230.334 332.1840  329.813 380.420 427.448
## ORI_14617_14591 235.6350 229.352 177.113 143.0940  423.123 307.115 510.353
## ORI_14623_14594 361.2870 258.888 143.591 174.1880  412.480 312.388 384.821
## ORI_14629_14597 329.1680 314.505 229.591 182.9840  161.954 307.184 266.107
## ORI_14631_14598 336.3530 331.448 262.791 275.0610  377.776 404.889 377.130
## ORI_14633_14599 194.1500 255.073 197.280 224.4450  509.709 359.858 543.069
## ORI_14635_14600 320.2370 279.228 217.473 186.8150  297.005 406.049 630.664
## ORI_14639_14602 255.7330 222.841 329.575 158.1100  222.254 325.143 533.857
##                   [,891]   [,892]    [,893]  [,894]  [,895]  [,896]   [,897]
## ORI_10219_10218 292.4710  53.3815  130.5300 475.551 171.689 206.914 3740.380
## ORI_10735_10730 130.0220 160.0000   30.8636 470.099 135.758 345.390 1944.120
## ORI_14605_14585 135.6790  43.6697   74.0981 458.788 177.727 418.892 1787.320
## ORI_14607_14586 109.0250 118.1880  108.9860 527.241 183.394 191.529 1630.570
## ORI_14609_14587 179.1300  71.1301   87.6652 567.095 141.535 423.340 1914.040
## ORI_14617_14591 249.3100  24.6827   81.1479 300.339 112.890 225.343 3062.910
## ORI_14623_14594 166.4090  50.9690  128.1540 405.126 130.810 246.481 2604.740
## ORI_14629_14597 190.3840  32.0190   86.3399 477.263 173.995 331.006 1469.440
## ORI_14631_14598 227.1600  71.6953   82.5356 529.475 147.190 350.812  955.690
## ORI_14633_14599 146.8610  24.6827   90.3261 554.065 187.633 247.170 2635.530
## ORI_14635_14600 149.9810  24.6827   63.3502 483.120 166.701 249.437 2145.210
## ORI_14639_14602 160.5610  24.6827   77.6186 558.854 173.754 242.005 2554.420
##                   [,898]   [,899]  [,900]   [,901]    [,902]  [,903]   [,904]
## ORI_10219_10218 1508.640  78.6016 344.851 590.4040   91.1290 345.338  496.542
## ORI_10735_10730 1455.250 202.4930 348.307 263.7850  823.8670 575.820 1305.060
## ORI_14605_14585 1162.840 166.8970 418.768 643.3290  117.7140 334.387  365.316
## ORI_14607_14586 1584.160 761.5200 419.254 355.7310  503.3640 500.290 1284.060
## ORI_14609_14587 1498.490 480.9730 350.028 691.4820  106.1900 598.168 1694.940
## ORI_14617_14591 2006.120  24.6827 337.712 685.7850   29.9950 573.743  462.103
## ORI_14623_14594 1527.630  69.5949 436.830 580.7690   57.6260 320.522  400.029
## ORI_14629_14597 1083.090  32.2624 470.219 519.1360   73.2707 496.897  769.555
## ORI_14631_14598  856.757 191.9210 500.035 728.5610  133.2850 521.495 1243.940
## ORI_14633_14599 1541.240 134.9720 418.349 533.7740   75.2082 552.240  178.351
## ORI_14635_14600 1270.160  38.5203 557.510 253.6150   40.3463 387.337  222.946
## ORI_14639_14602 1522.980  41.4770 471.883 149.8950  108.5260 486.191  597.060
##                   [,905]   [,906]  [,907]  [,908]  [,909]   [,910]   [,911]
## ORI_10219_10218 1315.880  272.110 326.286 256.356 559.095 3714.180 185.9730
## ORI_10735_10730  500.010  509.371 430.909 555.023 564.500 1490.630 246.8310
## ORI_14605_14585 1204.210  394.420 302.779 287.472 365.086 3456.650 216.2200
## ORI_14607_14586 1036.640  509.905 307.029 405.145 353.263 1599.920 413.3810
## ORI_14609_14587 1619.960  608.672 412.094 315.600 497.282 1857.360 380.3360
## ORI_14617_14591  632.744  394.683 365.102 192.134 466.564 2327.940  45.7546
## ORI_14623_14594  519.162  441.818 269.188 334.989 313.650 1910.910  49.9181
## ORI_14629_14597 1663.790 1044.710 240.435 186.413 270.177 1365.450  50.4010
## ORI_14631_14598 1363.460  477.335 365.073 319.923 392.262 1150.680 195.6870
## ORI_14633_14599  800.201  360.141 262.731 493.526 424.276 1964.020 125.5930
## ORI_14635_14600  440.875  274.775 286.693 307.144 493.749 1593.790  24.6827
## ORI_14639_14602  249.761  441.697 363.480 249.252 375.103 1200.690  24.6827
##                  [,912]  [,913]   [,914]   [,915]   [,916]  [,917]   [,918]
## ORI_10219_10218 161.340 344.273 1092.020  62.2165 142.3480 399.412 1813.770
## ORI_10735_10730 405.635 413.577 1309.180 283.2030 284.6790 410.020  682.969
## ORI_14605_14585 192.756 543.673 1265.490  74.7803 179.1430 396.135 1186.670
```

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## ORI_14607_14586 293.498 687.770 1181.310 128.0830  94.7470 347.256 1307.430
## ORI_14609_14587 329.561 611.325 1444.600 195.1210 160.7840 343.881 1213.480
## ORI_14617_14591 201.983 135.938 1134.120  24.6827  61.1694 328.449 1608.770
## ORI_14623_14594 162.552 198.102 1044.530  29.5732 241.9410 374.336 1251.930
## ORI_14629_14597 186.525 161.251 1120.010  91.6237 211.7460 374.267  654.153
## ORI_14631_14598 281.151 331.126 1328.790 326.8470 198.5490 404.773 1064.440
## ORI_14633_14599 137.695 272.141 1354.660  24.6827 232.9360 395.652 1088.940
## ORI_14635_14600 205.647 398.777 1106.290  25.1391 236.5500 454.233  878.594
## ORI_14639_14602 197.365 225.151 1224.890  38.3019 620.2030 491.776  743.876
##                  [,919]  [,920]   [,921]  [,922]   [,923]  [,924]   [,925]
## ORI_10219_10218 171.492 224.610 203.8050 754.410  952.407 508.947  503.989
## ORI_10735_10730 392.618 294.422 130.8260 811.669  769.862 360.835  817.457
## ORI_14605_14585 271.473 320.734 180.6500 799.418  854.078 358.749  636.357
## ORI_14607_14586 138.633 247.195 346.2930 773.520  974.122 384.179  972.379
## ORI_14609_14587 261.277 259.440 247.7520 880.583  979.597 184.655  762.304
## ORI_14617_14591 256.646 209.973  70.8933 515.794 1591.930 352.764  544.618
## ORI_14623_14594 168.306 207.222  80.3707 543.058 1369.980 458.905  286.602
## ORI_14629_14597 446.138 215.930 114.3280 869.879  777.490 420.294  420.485
## ORI_14631_14598 200.220 279.992 148.7520 753.705  853.826 266.132  894.371
## ORI_14633_14599 173.384 329.164 170.3950 608.652  917.227 402.722  591.326
## ORI_14635_14600 197.166 330.393  67.9667 486.410 1361.840 482.033  396.293
## ORI_14639_14602 580.878 148.747  46.8037 572.002  831.435 362.694  523.320
##                    [,926]    [,927]   [,928]   [,929]  [,930]   [,931]  [,932]
## ORI_10219_10218  226.3410  670.2580  690.857  53.2938 145.274  24.6827 317.819
## ORI_10735_10730  263.0730  241.6460  732.374 356.7280 196.853  70.2266 266.347
## ORI_14605_14585  316.3100  173.7220  753.947  61.7882 368.208 130.2860 382.292
## ORI_14607_14586  666.0090  167.0480  673.156 201.9040 196.910 302.5090 307.354
## ORI_14609_14587  467.8240  181.1580  765.831  76.1653 319.922 312.2590 292.350
## ORI_14617_14591  177.0950  540.0480  816.958  36.1470 216.026  41.9923 271.182
## ORI_14623_14594   96.8953  237.4080  706.932  41.7170 459.246  24.6827 396.523
## ORI_14629_14597  189.8250  275.2530  524.674  63.0361 136.616  24.6827 438.776
## ORI_14631_14598  398.7280  319.5200  537.307 166.6920 295.150 111.7680 341.555
## ORI_14633_14599  207.5450  359.8730  895.029  37.1926 418.436  24.6827 421.999
## ORI_14635_14600   47.6654  274.6970 1022.570  83.2111 351.178  24.6827 589.546
## ORI_14639_14602   39.9411  187.1970  425.023 133.4620 339.079  24.6827 500.197
##                   [,933]  [,934]  [,935]  [,936]   [,937]   [,938]  [,939]
## ORI_10219_10218  337.372 211.292 194.589 261.630 1310.890 1540.390 619.165
## ORI_10735_10730  511.040 465.217 187.741 421.191 1242.910 1250.570 527.528
## ORI_14605_14585  655.849 264.539 312.101 331.974  583.290 1095.980 571.420
## ORI_14607_14586  270.589 217.481 582.325 407.503  957.623 1244.430 414.264
## ORI_14609_14587  817.999 407.421 178.422 415.541 1243.220 1796.100 383.078
## ORI_14617_14591  402.402 224.448 125.781 204.792 1108.500  706.842 372.718
## ORI_14623_14594  397.805 300.627 171.859 269.325  568.294  620.119 562.542
## ORI_14629_14597 1085.020 507.694 181.984 283.472 2181.920  798.149 511.335
## ORI_14631_14598  774.866 225.750 286.153 461.650  857.671 1043.630 382.220
## ORI_14633_14599  551.685 397.259 168.201 248.077  863.174  481.192 677.999
## ORI_14635_14600  279.320 377.855 192.577 343.212  717.726  591.576 716.051
## ORI_14639_14602 1334.050 630.778 157.980 375.460  670.458  450.162 631.430
##                   [,940]  [,941]  [,942]  [,943]   [,944]  [,945]  [,946]
## ORI_10219_10218 139.5210 178.215 334.490 321.834 1165.930 543.981 242.658
## ORI_10735_10730 233.6330 390.610 327.236 233.483  793.754 342.452 416.826
## ORI_14605_14585 110.5370 309.678 322.218 224.913 1055.310 225.318 278.919
## ORI_14607_14586 122.0140 257.157 229.585 212.309  626.647 334.976 265.812
## ORI_14609_14587 139.6110 381.658 262.238 233.261  644.184 206.418 381.112
```

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## ORI_14617_14591  79.4356 300.267 250.611 153.666  719.455 324.383 312.107
## ORI_14623_14594 185.2060 294.357 400.863 242.577 1251.070 192.761 220.098
## ORI_14629_14597 128.2570 386.738 353.110 282.020 1065.640 205.438 151.047
## ORI_14631_14598 192.7870 398.723 334.241 278.646  826.115 188.942 217.477
## ORI_14633_14599 224.3900 378.546 363.690 256.629  972.475 242.538 331.412
## ORI_14635_14600 214.3910 322.354 411.681 278.190 1081.960 170.909 242.794
## ORI_14639_14602 224.0910 286.629 383.700 292.354  957.448 283.391 422.204
##                   [,947]   [,948]   [,949]  [,950]  [,951]  [,952]   [,953]
## ORI_10219_10218  706.650  962.634  434.143 548.151 596.764 364.689  429.908
## ORI_10735_10730 1093.350 1190.100  818.865 505.477 532.899 425.419  376.609
## ORI_14605_14585 1137.520  976.204  547.473 642.709 603.136 333.562  401.280
## ORI_14607_14586 1193.740  826.251  704.163 557.227 448.725 398.792  457.824
## ORI_14609_14587 1226.730 1105.100  693.763 556.571 683.810 306.919  454.827
## ORI_14617_14591  990.953 1015.300  636.844 497.428 821.599 352.206  468.544
## ORI_14623_14594 1086.140 1439.240  601.416 584.539 560.105 406.799  450.181
## ORI_14629_14597  897.101  923.468  722.976 519.243 928.909 377.731  399.040
## ORI_14631_14598 1359.890 1006.430  615.012 581.665 762.960 402.415  439.468
## ORI_14633_14599  741.043 1045.460  684.456 739.140 675.192 362.489  514.446
## ORI_14635_14600  910.105 1328.890  448.772 754.247 822.741 468.537  566.231
## ORI_14639_14602  961.117 1461.920  868.827 706.649 713.614 525.459  310.193
##                  [,954]   [,955]   [,956]   [,957]   [,958]   [,959]   [,960]
## ORI_10219_10218 208.187  878.695 1310.550  40.8709 1718.370  917.027 530.6040
## ORI_10735_10730 363.869  776.396 1093.270 173.0800  247.394 1553.150  74.4507
## ORI_14605_14585 286.029  881.891 1731.640  78.5360  637.074  623.231  47.3048
## ORI_14607_14586 220.450  759.657 1312.590  24.6827  717.794  954.528 234.5550
## ORI_14609_14587 297.490  615.425 1624.880  64.8014  495.493  741.290 114.2580
## ORI_14617_14591 217.732  538.558 1227.240  24.6827 1369.000 1066.070 571.8880
## ORI_14623_14594 314.063  738.311  984.977  86.7878  693.581  767.230 334.3080
## ORI_14629_14597 293.388  921.198 2185.790  55.5804  409.659 1193.520  83.3891
## ORI_14631_14598 399.409  645.071 1756.500  82.9873  873.977  866.143  77.4407
## ORI_14633_14599 287.319  984.245 1763.590  97.1773  445.368  643.421 188.6160
## ORI_14635_14600 491.425  868.064 1044.860 143.4180  529.036  832.848 181.6850
## ORI_14639_14602 360.528  913.186  949.191 193.4560  298.722  823.540 120.9370
##                    [,961]  [,962]   [,963]  [,964]   [,965]  [,966]  [,967]
## ORI_10219_10218  232.1930 369.698 1027.790 388.575  717.677 392.525 219.907
## ORI_10735_10730  516.0710 362.236  993.814 704.832  459.071 259.583 272.029
## ORI_14605_14585  481.8350 487.911 1039.960 266.974  680.992 396.492 236.410
## ORI_14607_14586  727.3640 435.266 1055.300 387.265  496.238 241.646 277.757
## ORI_14609_14587 1004.7400 357.032 1291.160 340.411  671.654 211.024 347.826
## ORI_14617_14591  170.4650 306.755 1425.260 476.466  857.241 293.232 194.338
## ORI_14623_14594  220.1810 414.666 1057.660 432.315  633.133 406.374 169.665
## ORI_14629_14597  601.2620 471.343 1494.850 442.748  465.276 387.014 253.969
## ORI_14631_14598  504.5480 365.655 1595.020 270.352  420.863 339.277 273.002
## ORI_14633_14599  357.7710 399.943 1023.400 355.460  910.000 307.109 223.949
## ORI_14635_14600  227.1230 526.426 1242.960 333.136 1129.640 427.879 176.930
## ORI_14639_14602   34.4450 446.438 1034.690 470.119  198.373 396.743 185.383
##                  [,968]  [,969]   [,970]   [,971]   [,972]  [,973]  [,974]
## ORI_10219_10218 340.108 1561.39 1064.750 1505.880  232.178 243.286 168.186
## ORI_10735_10730 477.208 2154.26 1655.140 1774.840  983.253 391.940 317.656
## ORI_14605_14585 438.344 2257.55 1638.680 1691.520  460.489 349.325 270.735
## ORI_14607_14586 437.849 2435.32 2752.330 3171.770  533.872 474.639 383.573
## ORI_14609_14587 680.248 2468.38 2493.860 1753.090  757.117 459.511 433.523
## ORI_14617_14591 606.106 2717.21 1384.070  870.714  350.524 425.917 189.158
## ORI_14623_14594 321.821 2074.08 1453.000 1379.240  294.651 287.228 150.221
```

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## ORI_14629_14597 388.456 2383.99 1881.590 1390.990  609.977 118.105 174.587
## ORI_14631_14598 585.497 2591.91 2020.860 1491.280  534.419 376.488 203.134
## ORI_14633_14599 332.150 2753.68 2115.480 1771.920  390.174 370.915 356.301
## ORI_14635_14600 376.393 3995.29 1549.640 1275.550  501.254 418.220 228.097
## ORI_14639_14602 398.655 2902.33 1110.970 1102.370 1006.510 331.797 153.015
##                   [,975]   [,976]   [,977]  [,978]  [,979]   [,980]   [,981]
## ORI_10219_10218 123.9130  397.272  38.7257 470.456 243.705 501.5010  415.607
## ORI_10735_10730 430.4630  869.676 317.4350 661.516 342.342 112.6990 1008.180
## ORI_14605_14585 385.7340  718.335 206.0940 599.797 316.087 170.9300  638.847
## ORI_14607_14586 474.8770 1167.970  46.6114 580.109 239.579 330.7730  937.459
## ORI_14609_14587 692.6850 1192.200 185.3050 594.600 240.609 300.6250  708.218
## ORI_14617_14591 122.9650  367.136  31.0742 572.427 327.416 723.8150  216.797
## ORI_14623_14594 145.9310  332.507 147.3110 414.977 497.582 626.3650  241.809
## ORI_14629_14597 372.6820  420.112 133.0220 540.854 202.259 184.2730  388.819
## ORI_14631_14598 423.7810  692.084 190.2850 545.868 400.990 177.2430  824.210
## ORI_14633_14599 426.9930  674.807 110.4790 469.390 271.584 213.0170  239.931
## ORI_14635_14600 291.7150  528.731 273.2090 795.642 498.166 229.8300  205.629
## ORI_14639_14602 136.4470  256.897 480.7450 938.258 391.995 242.2920  332.712
##                   [,982]   [,983]   [,984]   [,985]  [,986]  [,987]  [,988]
## ORI_10219_10218  685.887  442.564  277.520  911.907 169.987 247.083 249.780
## ORI_10735_10730 1282.810 1036.960 2094.760  215.693 325.657 324.406 264.362
## ORI_14605_14585 1026.240  373.299  427.821  983.695 238.475 223.019 206.760
## ORI_14607_14586  922.874  471.067  931.040  766.341 204.470 301.397 206.615
## ORI_14609_14587 1744.950  533.710  780.869  310.091 319.151 352.035 240.089
## ORI_14617_14591 1002.090  501.404  255.271  535.569 153.413 256.248 271.433
## ORI_14623_14594  783.778  494.937  333.552  515.513 156.147 160.965 197.116
## ORI_14629_14597 1170.660  374.664  276.100  330.872 412.529 204.577 281.038
## ORI_14631_14598 1470.120  760.823  594.141  325.277 291.225 242.657 224.047
## ORI_14633_14599 1513.500  595.742  783.303  331.817 219.965 162.945 176.991
## ORI_14635_14600 1063.870  642.297  629.971  328.183 420.798 247.964 328.953
## ORI_14639_14602 1435.010  838.161  597.370  303.473 164.271 359.999 262.442
##                  [,989]   [,990]   [,991]   [,992]   [,993]   [,994]  [,995]
## ORI_10219_10218 192.648 1062.130  477.252  24.6827 1109.820 1923.570 284.691
## ORI_10735_10730 320.087  932.938  791.347 251.8400  682.401  946.880 273.028
## ORI_14605_14585 270.191  673.094  662.855  76.0615 1261.100 2144.610 377.752
## ORI_14607_14586 288.598  586.076 1037.300  26.2340  605.821 1672.290 250.143
## ORI_14609_14587 322.219  656.690  679.727  85.9975  723.861 1362.050 377.133
## ORI_14617_14591 390.671 1302.060  617.129  24.6827 1543.710 1707.640 243.714
## ORI_14623_14594 420.585  451.860  452.499  52.2742 1547.640 1346.260 160.939
## ORI_14629_14597 199.637  824.440  576.848  60.1803  663.335 1909.340 531.071
## ORI_14631_14598 272.729  546.528  499.411  76.3484  521.224  826.924 204.444
## ORI_14633_14599 389.753  517.419  441.957  39.7094  905.676 1974.780 230.624
## ORI_14635_14600 804.095  545.768  664.331  90.6094 1239.030 1462.670 203.139
## ORI_14639_14602 350.394  759.771  388.491 149.6550  747.325 2164.170 482.097
##                  [,996]   [,997]   [,998]  [,999]  [,1000] [,1001] [,1002]
## ORI_10219_10218 264.945  428.370 1016.850 267.623 147.9750 568.472 1210.30
## ORI_10735_10730 393.543  678.807  806.130 292.420 288.0780 486.693 1598.61
## ORI_14605_14585 305.110  546.113  437.828 431.044 241.7600 456.623 1652.24
## ORI_14607_14586 276.296  543.875  550.229 367.768 184.0350 275.452 1700.24
## ORI_14609_14587 320.988  454.659  359.697 370.514 216.6990 285.315 1834.84
## ORI_14617_14591 198.170  579.049  812.411 326.187 148.6290 181.696 1093.24
## ORI_14623_14594 181.152  948.474  555.602 290.769 128.0650 343.313 1152.09
## ORI_14629_14597 440.980  361.650  417.379 239.506 167.2420 363.791 1269.93
## ORI_14631_14598 245.895  476.626  643.292 237.518 139.9070 245.957 1756.63
```

```
## ORI_14633_14599 240.322  701.651  616.820 263.481 222.0740 459.229 1426.45
## ORI_14635_14600 247.347 1583.460  423.868 320.224 278.9520 479.506 2100.41
## ORI_14639_14602 310.048  626.625  588.978 155.853 300.2900 351.789 1839.55
##                 [,1003]  [,1004] [,1005]  [,1006] [,1007]  [,1008]  [,1009]
## ORI_10219_10218 496.918 1243.960 240.639  989.205 278.153  926.256 204.8120
## ORI_10735_10730 282.754 1211.920 501.338  895.753 355.193  967.731 181.0090
## ORI_14605_14585 451.787 1203.310 257.454  841.524 365.899 1122.220 195.4260
## ORI_14607_14586 379.085 1169.740 296.898  926.574 444.000  731.002 120.1290
## ORI_14609_14587 272.345 1034.540 401.598  795.513 337.537  756.776 177.3100
## ORI_14617_14591 298.921  849.340 199.720 1313.060 232.926  612.902 144.5340
## ORI_14623_14594 486.930  989.900 247.276  918.195 188.805 1000.080 236.2010
## ORI_14629_14597 437.509 1397.790 297.803  956.340 272.012  615.671 315.7410
## ORI_14631_14598 361.946 1433.610 417.141  782.637 437.846  852.851 180.0520
## ORI_14633_14599 423.310 1358.660 392.771 1086.950 298.363 1047.020 264.5440
## ORI_14635_14600 435.714  896.652 211.297 1297.340 297.898  931.198 237.5660
## ORI_14639_14602 393.801  977.350 373.623  900.637 499.761  922.802 450.7030
##                   [,1010] [,1011]   [,1012] [,1013] [,1014]  [,1015] [,1016]
## ORI_10219_10218 1574.1100 414.408  188.9190 408.695 137.121  605.957 465.882
## ORI_10735_10730  114.9400 419.638  590.4220 371.505 236.946  926.319 537.377
## ORI_14605_14585 2004.3800 352.805  402.4750 362.749 223.822  755.053 599.821
## ORI_14607_14586  338.8880 317.104  350.8440 278.688 223.734 1117.450 392.558
## ORI_14609_14587  718.6150 367.523  440.1300 292.197 304.478  921.965 763.511
## ORI_14617_14591  748.0510 418.951  381.2200 386.288 111.029  782.490 692.436
## ORI_14623_14594  506.9870 262.987  570.4680 458.473 280.270  606.150 403.015
## ORI_14629_14597  278.7480 301.994  462.9650 257.832 221.505 1318.540 495.687
## ORI_14631_14598  169.7780 382.702  380.0090 382.593 313.795  988.218 585.720
## ORI_14633_14599  122.6130 311.275  602.3210 321.972 153.865  607.600 435.701
## ORI_14635_14600  726.4100 417.279  982.6160 345.051 269.904  754.296 418.053
## ORI_14639_14602  340.1910 422.603  509.8560 439.597 158.335  639.897 369.605
##                  [,1017]  [,1018] [,1019]  [,1020] [,1021] [,1022] [,1023]
## ORI_10219_10218  24.6827 1498.660 161.568  279.734 166.103 385.530 257.775
## ORI_10735_10730 146.1020 1444.650 292.481  441.424 250.512 423.080 327.966
## ORI_14605_14585 109.6620 1588.720 235.909  352.651 285.104 244.473 234.195
## ORI_14607_14586 135.8200 2138.000 345.160  363.574 248.595 228.747 285.329
## ORI_14609_14587 105.8790 1897.340 326.669  434.958 220.272 380.782 278.821
## ORI_14617_14591  70.4797 1552.640 152.373  336.704 136.434 277.877 215.718
## ORI_14623_14594  65.7848 1227.030 189.571  377.347 281.510 308.089 176.488
## ORI_14629_14597 103.7750 1440.820 683.829  427.858 215.681 545.314 180.260
## ORI_14631_14598 167.1060 1962.760 499.104  563.837 226.180 189.520 166.537
## ORI_14633_14599 129.4080 1752.960 161.059  342.527 212.014 476.257 251.355
## ORI_14635_14600 110.1350 1668.380 171.542  461.409 320.132 242.484 273.239
## ORI_14639_14602  99.3650 1389.640 650.433  416.562 277.229 158.105 200.088
##                 [,1024]  [,1025] [,1026]  [,1027] [,1028]  [,1029] [,1030]
## ORI_10219_10218 364.478 139.1740 512.924 139.7030 272.104 1087.500 370.294
## ORI_10735_10730 263.147  94.4265 448.910 299.5770 328.761 1146.860 434.133
## ORI_14605_14585 291.497 185.0430 322.924 182.5760 230.902 1171.120 309.560
## ORI_14607_14586 296.104  93.9934 272.814 156.2100 251.716  818.995 292.002
## ORI_14609_14587 450.371 157.0080 511.793 233.8670 365.259  689.919 293.599
## ORI_14617_14591 187.422 121.2960 298.988  57.2943 310.197  625.269 193.711
## ORI_14623_14594 280.555 302.3610 296.252 116.7360 244.332 1254.610 258.509
## ORI_14629_14597 241.313 268.5700 253.578 163.0210 256.310 1067.120 339.970
## ORI_14631_14598 199.244 188.3780 315.981 145.6940 224.454  862.144 194.166
## ORI_14633_14599 261.446 118.1390 385.527 229.0110 198.708 1057.240 481.695
## ORI_14635_14600 154.056 323.0420 303.023 128.1440 303.334  910.915 290.395
```

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## ORI_14639_14602 260.510 274.2500 303.875 120.8500 262.693  821.609 271.739
##                 [,1031] [,1032]  [,1033] [,1034] [,1035]  [,1036]  [,1037]
## ORI_10219_10218 375.361 424.320 1010.410 407.164 333.663 1249.500 359.1060
## ORI_10735_10730 371.737 582.907  748.392 597.995 576.379  841.831 323.5190
## ORI_14605_14585 349.844 448.946  886.016 603.846 483.132  989.257 560.4850
## ORI_14607_14586 459.984 408.290  833.324 487.866 343.720  729.651 379.7520
## ORI_14609_14587 490.014 494.325  777.568 622.228 524.998 1077.560 570.4820
## ORI_14617_14591 266.940 409.440  581.419 675.655 379.377 1320.400 324.7760
## ORI_14623_14594 284.954 406.414  763.483 568.300 335.728 1053.900 343.5590
## ORI_14629_14597 232.432 425.168  931.525 595.451 587.867  288.104 147.3550
## ORI_14631_14598 220.759 275.269  575.094 410.656 434.298  344.095 264.3110
## ORI_14633_14599 501.708 572.464  786.103 494.033 500.378  638.774 230.0880
## ORI_14635_14600 228.308 550.668  749.084 561.596 345.380  849.006 308.5610
## ORI_14639_14602 356.324 503.742  638.152 667.690 544.527  788.914 289.7360
##                 [,1038] [,1039] [,1040]  [,1041] [,1042] [,1043]  [,1044]
## ORI_10219_10218 2598.51 344.281 628.134 1153.040 456.300 582.697 2177.650
## ORI_10735_10730 1787.66 678.623 416.920 1178.520 337.841 674.963 1556.410
## ORI_14605_14585 2532.10 435.370 509.213 1205.020 627.438 537.787 1903.230
## ORI_14607_14586 2883.25 511.839 346.674 1658.000 435.048 443.997 1789.750
## ORI_14609_14587 3019.14 777.232 826.010 1518.820 519.219 612.807 1756.880
## ORI_14617_14591 2594.96 278.544 404.761 1275.470 303.136 566.410 1742.820
## ORI_14623_14594 2677.09 345.848 299.837 1080.240 606.782 474.408 1507.420
## ORI_14629_14597 2662.47 420.403 522.400  936.471 461.281 616.927 1097.040
## ORI_14631_14598 2386.21 452.594 337.483 1115.720 360.213 425.045 1260.390
## ORI_14633_14599 2645.61 379.739 502.220 1567.080 498.250 688.201 1624.730
## ORI_14635_14600 2064.62 362.248 212.571 1234.780 596.708 699.930 1479.240
## ORI_14639_14602 1870.11 367.020 162.373 1229.130 367.248 723.194 1497.670
##                  [,1045]  [,1046] [,1047]  [,1048]  [,1049]  [,1050] [,1051]
## ORI_10219_10218 1102.670  87.4856 202.227  47.4980 223.5360  685.407 245.346
## ORI_10735_10730 2028.650 210.0110 241.840 183.5480 379.1230  794.870 362.268
## ORI_14605_14585 1204.170 138.8970 197.007 119.0000 130.5640  680.548 444.706
## ORI_14607_14586 1722.540 382.6580 177.657 332.3910 289.0640  780.929 421.465
## ORI_14609_14587 1846.400 222.6770 293.322 268.3070 697.5400  749.791 325.417
## ORI_14617_14591 1713.230 237.9410 115.063  71.8491 172.2750  735.269 183.998
## ORI_14623_14594 1431.940 194.5790 203.679  74.7380 109.5570  754.714 228.613
## ORI_14629_14597 1843.020 294.0080 174.134 111.7200 115.3670  507.899 375.992
## ORI_14631_14598 1779.130 171.8430 163.352 255.5000 106.2830  616.680 248.491
## ORI_14633_14599 1645.050 238.3000 188.861 230.4410  64.6871  794.892 347.024
## ORI_14635_14600 1035.220 118.2780 167.242 107.8990 102.6890  575.912 319.269
## ORI_14639_14602 1266.330 555.0770 153.527  66.1800  82.7497  761.238 299.035
##                 [,1052]  [,1053]  [,1054]  [,1055]  [,1056] [,1057]  [,1058]
## ORI_10219_10218 489.583  413.781  961.055  601.923 183.7630 273.329 174.6050
## ORI_10735_10730 401.026  639.503 3022.710  359.456 575.7530 177.578 212.0220
## ORI_14605_14585 506.540  532.979 1087.890  366.557 377.7770 277.295 144.5640
## ORI_14607_14586 592.659  614.363 1021.490  438.460 241.3590 194.654 126.0300
## ORI_14609_14587 638.401  783.347 1439.460  487.841 272.9700 266.954 140.8870
## ORI_14617_14591 639.096  876.232 1386.750  744.576 140.4940 179.445  69.2375
## ORI_14623_14594 457.903  531.017 1406.070  501.660 201.2710 279.907 114.0820
## ORI_14629_14597 542.382  404.539 1180.570  402.917 195.3750 328.034  89.7550
## ORI_14631_14598 524.421  654.679 1776.140  532.263 358.7790 336.934 237.2730
## ORI_14633_14599 514.420  500.097  867.741  504.716 228.6070 242.514 155.2990
## ORI_14635_14600 535.929 1108.760 1255.260  472.580 335.8210 230.841 142.2230
## ORI_14639_14602 506.347  915.337 1543.300  362.073 229.9640 252.974 105.9880
##                 [,1059] [,1060]  [,1061] [,1062]  [,1063]  [,1064] [,1065]
```

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## ORI_10219_10218 350.891 593.113  470.366 331.609  353.027  562.040 269.100
## ORI_10735_10730 284.072 634.892  731.328 250.386  737.532  800.010 484.090
## ORI_14605_14585 341.758 589.412  504.969 438.680  507.784  655.450 578.170
## ORI_14607_14586 262.158 455.448  373.401 273.621  832.486  611.975 407.872
## ORI_14609_14587 282.743 809.886  518.421 546.886  646.930 1058.390 855.424
## ORI_14617_14591 225.410 825.840  490.068 553.278  367.860  744.688 583.869
## ORI_14623_14594 372.975 382.185  324.078 278.257  266.862  725.122 472.936
## ORI_14629_14597 357.006 183.044  220.776 311.965  512.658  526.079 282.020
## ORI_14631_14598 368.702 587.612  495.580 332.079  734.906  869.924 687.054
## ORI_14633_14599 408.477 525.787  513.695 462.010  393.567  875.283 723.629
## ORI_14635_14600 390.628 611.331  463.263 327.094  344.521  852.889 938.436
## ORI_14639_14602 362.778 181.696  313.398 342.185  831.394 1160.740 799.278
##                  [,1066] [,1067] [,1068]  [,1069] [,1070] [,1071] [,1072]
## ORI_10219_10218  409.554 1696.15 255.833 1376.870 333.809 252.153 654.135
## ORI_10735_10730  533.499 1708.41 296.521 1555.630 396.660 259.234 329.657
## ORI_14605_14585  718.613 1597.76 245.369 1432.510 446.267 283.935 255.477
## ORI_14607_14586  653.982 1721.34 217.029 1555.800 303.347 230.444 314.073
## ORI_14609_14587  469.559 1202.66 342.864 1119.580 548.122 377.413 249.352
## ORI_14617_14591  439.336 1001.25 164.497 1479.200 325.871 255.769 644.981
## ORI_14623_14594  905.873 1258.92 204.302 1398.610 276.539 240.528 445.506
## ORI_14629_14597  867.778 1193.88 300.126 1291.730 688.142 267.811 369.005
## ORI_14631_14598  710.440 1221.76 373.648 1210.370 563.534 276.172 329.000
## ORI_14633_14599  746.336 1707.85 235.531 1305.900 373.323 327.174 484.982
## ORI_14635_14600  991.865 1371.89 419.097 1219.230 277.624 250.254 363.634
## ORI_14639_14602  834.218 1583.79 398.252 1518.140 249.481 300.197 437.647
##                  [,1073] [,1074] [,1075]  [,1076]  [,1077]  [,1078] [,1079]
## ORI_10219_10218 203.2810 573.433 459.503 195.4370 226.7990 1088.750 387.290
## ORI_10735_10730 633.1120 658.965 463.256 212.7640 109.5920  636.200 448.575
## ORI_14605_14585 305.3730 736.723 476.659 296.6730 187.8170 1044.880 417.373
## ORI_14607_14586 254.4200 668.186 528.606 145.5140 157.2230  390.611 424.760
## ORI_14609_14587 284.1070 894.438 610.295 339.3650 107.4090  811.393 310.654
## ORI_14617_14591 268.4810 660.260 636.765  99.0693 110.6920  836.906 496.767
## ORI_14623_14594 282.0930 825.174 405.454 179.9440 179.2280  618.408 471.697
## ORI_14629_14597 270.1420 726.417 683.870 188.0740 179.6450 1364.870 428.086
## ORI_14631_14598 257.9490 650.930 711.049 205.1880 190.4910  380.401 425.468
## ORI_14633_14599 297.0120 598.507 493.889 120.0680 121.5940 1104.210 414.767
## ORI_14635_14600 379.8950 836.171 470.896 215.5940 168.4970  601.547 459.530
## ORI_14639_14602 567.7730 571.383 521.333  94.4011 134.3250  464.721 368.366
##                 [,1080] [,1081]  [,1082]   [,1083]  [,1084] [,1085]   [,1086]
## ORI_10219_10218 353.419 331.336 187.8150  174.3330 278.6830 405.117   41.8318
## ORI_10735_10730 291.603 278.034 332.0560  607.6330 155.5360 291.199  374.1780
## ORI_14605_14585 369.592 326.617 194.6240  271.2400 154.8240 363.477  764.6300
## ORI_14607_14586 437.330 455.939 200.2510  679.9740 183.8400 380.984  313.0210
## ORI_14609_14587 310.366 353.460 311.8630 1008.9200 245.9800 654.564  644.0030
## ORI_14617_14591 278.291 727.112 130.6740   90.2802 161.1690 285.186  327.1480
## ORI_14623_14594 415.631 756.484 166.9590  122.6530  94.6835 437.543  284.3150
## ORI_14629_14597 414.005 546.680 199.8670  183.1520  77.7496 483.209   77.6309
## ORI_14631_14598 392.643 376.040 229.8670  362.4640 140.1410 644.360  179.2230
## ORI_14633_14599 409.188 444.702 240.4070  256.9480 169.0200 288.860   77.0509
## ORI_14635_14600 419.090 558.657 253.8790   93.6156 154.3770 268.866  583.0700
## ORI_14639_14602 446.031 521.835 170.1060  134.4140  62.3488 174.474   24.6827
##                  [,1087] [,1088]   [,1089]  [,1090] [,1091]  [,1092]  [,1093]
## ORI_10219_10218 109.8100 299.554  194.6970 1276.590 391.605  754.404  574.022
## ORI_10735_10730 200.9050 422.369  271.7120 1200.090 807.216 2406.660 2158.880
```

```
## ORI_14605_14585 150.1190 366.424  310.2370 1241.410 546.056 2238.740 2298.580
## ORI_14607_14586 178.5610 389.159  894.2160 1648.930 375.972 4146.790 4517.480
## ORI_14609_14587 187.8350 381.834  725.9000 1366.100 782.533 2804.690 3110.890
## ORI_14617_14591 228.4030 379.024   89.1828 1011.280 423.704  595.792  717.201
## ORI_14623_14594 195.4820 284.333  105.9950  787.082 410.591  556.136  471.575
## ORI_14629_14597 208.8520 319.981  134.5370 1224.330 656.798  650.293  858.073
## ORI_14631_14598 298.6550 346.703  361.0690 1316.700 569.343 2485.960 2754.330
## ORI_14633_14599 201.9280 518.061  224.5500 1260.680 660.970 2241.580 2490.500
## ORI_14635_14600 180.5210 461.554  395.9320 1207.070 589.589 1465.630 1143.810
## ORI_14639_14602 112.5940 395.192  118.6710  686.575 709.685  542.008  500.954
##                  [,1094]  [,1095]  [,1096]   [,1097]   [,1098]  [,1099]
## ORI_10219_10218  453.007  745.961  295.713  152.2050  166.6670 201.9490
## ORI_10735_10730  688.341  598.681 2654.020 1005.6200  289.5890  90.9171
## ORI_14605_14585  456.042  695.057  696.384  293.8220  234.1080 176.6370
## ORI_14607_14586  535.266  724.572  645.014 2215.1000  307.6280 120.6610
## ORI_14609_14587  638.500 1004.870  158.447  980.3130  394.5160 122.4630
## ORI_14617_14591  601.881  905.091  441.047  184.4180   98.8849 142.3940
## ORI_14623_14594  401.168  525.408 1171.900  199.3350  182.9210 217.2360
## ORI_14629_14597  422.247 1062.990  271.776  395.0770  418.6040 130.4510
## ORI_14631_14598  802.527  901.036  751.400 1107.9500  983.6310 203.1080
## ORI_14633_14599  388.044  624.179 3558.380  669.3990  173.1390 309.0500
## ORI_14635_14600  609.613  481.465 1358.020  369.1420  128.6710 267.1530
## ORI_14639_14602  348.379  413.675 2463.740  490.1490  265.4540 138.1120
##                   [,1100]   [,1101]   [,1102]  [,1103]   [,1104] [,1105]
## ORI_10219_10218  113.2300  150.7030  192.8070  213.316  529.1310 340.970
## ORI_10735_10730 1586.5500  345.8220 1628.3900  304.699  155.6560 258.979
## ORI_14605_14585  628.9700  191.1100 1146.4300  575.678  146.4740 317.713
## ORI_14607_14586 2652.4100  409.1700 3261.0800 1058.960  395.3580 276.079
## ORI_14609_14587 1295.5200  467.4310 2035.8200  680.337  163.0560 471.827
## ORI_14617_14591  141.4370   77.8432  303.7080  121.199 1066.0500 384.406
## ORI_14623_14594  355.7650  186.7590  330.7480  153.965  649.2700 259.586
## ORI_14629_14597 1148.6300  486.3750  523.5070  158.046  231.6390 260.520
## ORI_14631_14598 1196.0700  365.4590 1878.5600  435.000  410.4640 300.900
## ORI_14633_14599  296.5160  192.3760  484.5920  301.183  206.2360 332.838
## ORI_14635_14600  320.9620  209.7930  272.6840  177.563  157.3200 387.707
## ORI_14639_14602  242.8510  116.0040  244.0350  155.297  122.8440 311.751
##                 [,1106] [,1107]  [,1108]  [,1109] [,1110]  [,1111] [,1112]
## ORI_10219_10218 274.669 187.442  820.795  873.650 378.134 1460.680 297.462
## ORI_10735_10730 300.376 227.318  601.021  451.116 368.161  906.805 340.633
## ORI_14605_14585 303.176 255.080  878.801  779.835 470.086 1327.380 419.732
## ORI_14607_14586 436.138 295.042  779.329  750.498 465.234 1290.630 539.085
## ORI_14609_14587 392.095 305.752  784.179  813.184 429.226 1074.210 579.531
## ORI_14617_14591 342.496 238.433  908.279  883.087 437.286  913.334 347.007
## ORI_14623_14594 293.102 235.478  797.516  543.772 250.770  888.570 134.356
## ORI_14629_14597 486.353 292.542  720.823  703.855 350.473 1243.070 384.671
## ORI_14631_14598 324.365 338.585 1072.680  734.535 410.952  992.198 531.483
## ORI_14633_14599 469.868 247.478  553.259  610.111 597.769  606.907 508.092
## ORI_14635_14600 368.754 301.468  621.966  502.884 582.431  623.264 239.468
## ORI_14639_14602 417.048 310.188  460.155  458.822 581.548  650.689 212.917
##                 [,1113] [,1114]  [,1115]  [,1116] [,1117]  [,1118]  [,1119]
## ORI_10219_10218 235.138 195.460  667.111  950.796 266.887  285.962 3208.300
## ORI_10735_10730 219.678 329.843  616.743 1173.130 338.488  550.218  601.971
## ORI_14605_14585 279.615 232.340  820.912 1074.690 297.209  549.691 3500.700
## ORI_14607_14586 179.870 241.977  892.024 1286.750 303.100  691.234 1154.870
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```
## ORI_14609_14587 292.360 307.052 1125.460 1225.010 235.732  813.527 1743.910
## ORI_14617_14591 363.471 204.208  794.958  937.926 243.817  442.533 1380.620
## ORI_14623_14594 421.000 218.210  746.771  862.450 293.533  556.801 1406.200
## ORI_14629_14597 725.597 254.783  776.984  885.027 284.222  454.986 1147.160
## ORI_14631_14598 204.988 276.338  841.028 1433.450 319.929  571.624  736.677
## ORI_14633_14599 495.116 249.794  994.536  985.101 262.751  724.843  749.779
## ORI_14635_14600 476.947 266.042  889.887  851.303 284.393  766.318 1912.600
## ORI_14639_14602 382.198 488.103  964.977 1361.600 230.935  398.918  629.877
##                  [,1120]  [,1121] [,1122] [,1123]   [,1124]  [,1125] [,1126]
## ORI_10219_10218  287.939 635.7570 246.809 231.176  189.3700 1103.330 204.348
## ORI_10735_10730  466.480 384.7010 316.343 263.778  168.8820  733.442 204.756
## ORI_14605_14585  392.613 760.5980 343.823 260.407  331.4460 1175.420 210.079
## ORI_14607_14586  334.462 423.8410 390.055 219.090  125.8900 1031.070 260.204
## ORI_14609_14587  818.221 350.1400 289.225 266.853  142.4540 1220.250 353.572
## ORI_14617_14591  597.019 683.3960 313.134 398.958  760.2180 1238.810 237.670
## ORI_14623_14594  328.017 496.4070 341.257 354.390 1119.4500 1002.700 136.636
## ORI_14629_14597  498.386 276.9490 378.287 354.844   64.4217  897.477 249.131
## ORI_14631_14598  598.876 221.6660 369.749 304.737  228.1880 1350.640 380.735
## ORI_14633_14599  742.927 591.7830 328.299 309.363  771.5520 1034.230 339.913
## ORI_14635_14600 1029.920 423.0770 401.493 243.526 1160.7000 1080.580 194.907
## ORI_14639_14602  950.611 146.8460 452.294 510.277   48.5591  949.568 393.135
##                  [,1127] [,1128] [,1129]  [,1130] [,1131] [,1132] [,1133]
## ORI_10219_10218 194.9070 331.347 420.328  308.369 476.417 231.641 607.637
## ORI_10735_10730 161.8910 379.145 255.031  579.862 334.684 164.004 413.350
## ORI_14605_14585 206.2560 382.739 350.105  423.688 441.437 167.426 522.039
## ORI_14607_14586 141.3400 329.774 283.895  745.530 303.923 139.699 436.651
## ORI_14609_14587 342.2590 411.491 290.495  777.035 268.661 231.679 496.105
## ORI_14617_14591 166.0870 403.164 359.969  302.762 248.937 142.652 511.888
## ORI_14623_14594 244.2590 301.261 453.186  319.205 508.764 317.056 414.405
## ORI_14629_14597 265.3010 335.845 270.155  223.545 410.635 398.434 465.690
## ORI_14631_14598 352.9990 338.130 408.868  537.189 388.903 317.013 477.299
## ORI_14633_14599 169.8810 432.144 309.179  546.520 430.482 280.709 452.577
## ORI_14635_14600 165.3390 449.277 369.561  440.500 499.857 342.137 448.508
## ORI_14639_14602  76.2561 514.597 286.278  288.559 322.552 328.745 495.816
##                  [,1134]  [,1135] [,1136] [,1137]  [,1138]  [,1139]  [,1140]
## ORI_10219_10218 315.4360  809.802 236.436 314.453  53.5866  246.806  66.1640
## ORI_10735_10730 550.7610  746.187 339.582 523.600 181.4470  671.079 238.0800
## ORI_14605_14585 382.6070  794.665 220.799 657.494  78.4747  637.045 136.8380
## ORI_14607_14586 300.4870  826.791 316.875 458.280 129.5770  292.573  84.5201
## ORI_14609_14587 436.6430  850.220 461.526 898.245 416.2160  940.039  87.5712
## ORI_14617_14591 274.7830  900.308 172.213 521.860  59.2444  520.545  32.2912
## ORI_14623_14594 227.0990  638.359 180.993 438.222  76.8560  626.810  55.4885
## ORI_14629_14597 311.6070  903.413 252.448 553.064 463.1640  818.578  91.0798
## ORI_14631_14598 514.1990 1087.180 331.706 900.872 419.5660  601.801 228.7850
## ORI_14633_14599 209.4130  858.382 324.853 380.066  60.1213  622.057  45.4138
## ORI_14635_14600 192.4870  847.684 229.717 492.333  87.8937 1020.020  51.0158
## ORI_14639_14602 168.0900  623.503 222.956 236.129 111.4860  778.952  92.4140
##                  [,1141]  [,1142]  [,1143]  [,1144]  [,1145]  [,1146] [,1147]
## ORI_10219_10218 1544.540  24.6827  389.129 1207.760  190.934  950.506 448.224
## ORI_10735_10730  776.303 170.8650  707.840 1021.220  321.277  681.593 312.353
## ORI_14605_14585  767.555  65.0845  538.302 1035.830  235.860  569.104 414.147
## ORI_14607_14586 1458.210  24.6827  598.299  999.426  283.631  585.207 346.353
## ORI_14609_14587 1088.410  63.2182  822.530  799.122  368.772  579.606 243.467
## ORI_14617_14591 1525.540  24.6827  398.810 1059.360  158.658  972.702 238.436
```

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## ORI_14623_14594 1467.250  24.6827  333.376  798.978  560.375  548.185 393.666
## ORI_14629_14597  772.162  24.6827  280.525  513.036  331.330  789.680 316.066
## ORI_14631_14598 1069.880 108.9310  651.673 1012.730  419.926  497.674 329.828
## ORI_14633_14599  894.480 105.0530  442.305  743.486  359.186  679.435 383.148
## ORI_14635_14600  866.455  24.6827  320.293  712.220  886.557  619.845 400.308
## ORI_14639_14602  540.004 419.3490  331.506  820.118  275.880  681.593 359.411
##                   [,1148] [,1149]  [,1150]  [,1151]  [,1152] [,1153]  [,1154]
## ORI_10219_10218 1187.7100 524.242  614.793 103.2820  835.816 566.655 1659.940
## ORI_10735_10730  560.0250 465.913  770.666 404.4710 1280.580 452.755 2808.120
## ORI_14605_14585  377.5670 605.454  731.786 214.6140 1090.560 506.225 4101.050
## ORI_14607_14586  519.5870 500.513 1092.800 166.1640 1152.760 490.965 4357.150
## ORI_14609_14587  661.6910 688.939 1008.900 175.9690 1461.360 382.273 5403.950
## ORI_14617_14591 1180.5400 495.344  885.660  89.8721  632.434 483.861 1494.130
## ORI_14623_14594  679.1330 395.303  703.398 135.1320  681.348 670.331 1361.880
## ORI_14629_14597  163.7020 623.455  647.080 262.2850 1358.270 503.986 1079.770
## ORI_14631_14598  448.6030 655.252 1092.060 273.1030 1296.360 448.700 3067.620
## ORI_14633_14599  628.2980 610.684  856.873 201.5990 1138.920 478.294 4235.530
## ORI_14635_14600  683.1140 466.194  714.320 236.9450 1031.970 504.911 1887.790
## ORI_14639_14602  838.3360 411.868  750.887 189.7600  875.696 454.158  997.745
##                   [,1155]  [,1156]  [,1157] [,1158]  [,1159]  [,1160]  [,1161]
## ORI_10219_10218  585.0630 2166.030  661.252 354.382 1114.080  263.462  881.571
## ORI_10735_10730  250.4450  655.498 2133.280 557.761 2206.110  673.928 1091.600
## ORI_14605_14585  655.9520 2102.830 2211.460 584.576 1527.870  501.642 1098.420
## ORI_14607_14586 1828.4600  515.545 3171.370 502.880 1045.940  541.646  645.351
## ORI_14609_14587  844.4530 1061.910 2580.240 581.560 1089.160  517.142  833.094
## ORI_14617_14591  203.4280  825.117  566.935 690.013 2002.200  308.542  514.677
## ORI_14623_14594  312.0650  937.893  835.817 610.443 2137.760  221.235  664.037
## ORI_14629_14597  323.2970  524.183  757.638 555.977  766.319 1068.730  762.136
## ORI_14631_14598  538.8230  670.137  984.537 550.361 1097.880  648.122  855.572
## ORI_14633_14599  366.9240  747.895 3349.490 614.676 2019.510  381.469  518.836
## ORI_14635_14600  271.2690 1498.780 1076.970 428.072 1837.750  270.290  519.235
## ORI_14639_14602  101.8880  663.523  686.070 595.038 1923.650  449.848 1343.300
##                 [,1162]  [,1163]  [,1164] [,1165]   [,1166] [,1167] [,1168]
## ORI_10219_10218 173.503  912.866  505.005 625.120  185.6150 443.345 470.423
## ORI_10735_10730 379.410  418.019  442.651 586.364  275.4310 217.510 611.152
## ORI_14605_14585 340.551  795.901  471.056 501.602  185.8550 297.371 529.351
## ORI_14607_14586 207.277  519.354  550.482 512.117 1188.8800 465.124 613.219
## ORI_14609_14587 393.846  587.097  548.289 587.278  986.0680 283.165 544.267
## ORI_14617_14591 170.722  649.604  833.337 651.560   59.5572 453.525 562.282
## ORI_14623_14594 222.678  475.451  426.388 434.895   97.3813 323.849 478.265
## ORI_14629_14597 179.869  606.706  476.084 788.995  173.2800 136.132 361.911
## ORI_14631_14598 408.254  523.433  631.252 482.457  544.0680 226.406 745.945
## ORI_14633_14599 289.756  583.781  355.812 515.940   69.7771 271.441 645.985
## ORI_14635_14600 352.605  584.784  399.000 590.417  256.7780 256.792 621.958
## ORI_14639_14602 266.791  316.195  494.540 497.859   97.7777 134.122 771.660
##                  [,1169]  [,1170]  [,1171]  [,1172] [,1173]  [,1174]  [,1175]
## ORI_10219_10218 307.3330  349.708  541.447  238.135 345.951 1209.370 199.9750
## ORI_10735_10730 245.7700  379.440  601.639  614.826 379.814  261.268 158.2510
## ORI_14605_14585 268.7870  435.707  560.991  561.954 321.565  675.267 187.6200
## ORI_14607_14586 277.0390  427.388  227.458  561.201 318.703  648.057 241.0310
## ORI_14609_14587 536.0690  573.533  267.885  555.176 381.844  394.986 327.9390
## ORI_14617_14591 244.0440  713.239  474.357  386.182 401.394  212.859 228.1080
## ORI_14623_14594 260.3200  376.448  504.693  273.692 257.121  533.267 324.3770
## ORI_14629_14597 200.9650  289.257  260.320  329.291 180.717  418.476  49.6680
```

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## ORI_14631_14598 486.7250  391.899  323.411 1073.960 364.207  400.025 178.8680
## ORI_14633_14599 353.0790  526.209  723.815  406.763 357.868  443.651 489.5410
## ORI_14635_14600 313.6850  573.653  867.791  273.554 422.557  342.442 208.9330
## ORI_14639_14602  88.2397  430.301  430.614  952.426 441.119  423.155  95.2408
##                 [,1176]  [,1177]  [,1178] [,1179] [,1180]  [,1181]  [,1182]
## ORI_10219_10218 434.428 1230.400 138.9810 241.852 281.006 301.8110  182.380
## ORI_10735_10730 380.879 1331.680 279.7270 337.913 206.121 104.6990  869.442
## ORI_14605_14585 427.791 1524.780 146.5850 193.312 262.737  84.2710  329.071
## ORI_14607_14586 257.521 1367.260  87.5928 371.564 261.074 257.3700  470.395
## ORI_14609_14587 563.556 1643.380 333.8630 384.806 181.360 182.6950  746.744
## ORI_14617_14591 204.969 1184.430 158.5730 234.710 181.105 407.5610  110.964
## ORI_14623_14594 194.364  889.194 109.3660 204.726 260.498 235.5430  206.094
## ORI_14629_14597 378.743  856.452 143.3030 362.390 297.258  47.5035  306.353
## ORI_14631_14598 495.430 1121.470 275.7570 389.875 356.191 121.5810  526.526
## ORI_14633_14599 432.902 1345.630 155.3560 306.114 282.424  66.5772  284.718
## ORI_14635_14600 281.015 1148.130 167.1960 359.249 196.337 106.9720  289.235
## ORI_14639_14602 124.987  901.077  73.0596 206.133 215.030  45.5434  807.406
##                 [,1183]  [,1184]  [,1185]  [,1186]  [,1187]   [,1188]  [,1189]
## ORI_10219_10218 316.872  938.414  924.889 236.7070 223.8250  569.4620  717.073
## ORI_10735_10730 531.585 1251.490 1073.480 143.3060 210.5080 1507.6100  914.762
## ORI_14605_14585 442.744 1436.470 1241.960 212.8590 172.0850 1447.5900  621.189
## ORI_14607_14586 535.573 1155.570 1253.720 311.0690 160.3040 2670.3600  867.401
## ORI_14609_14587 651.831 1248.620 1367.350 127.8840 313.1110 2204.3000  823.160
## ORI_14617_14591 413.520 1409.300  925.981 195.7830 216.9980 2392.1100  721.955
## ORI_14623_14594 312.835 1292.850  896.700 384.0880 213.5360 1881.4100  511.630
## ORI_14629_14597 265.780  713.365  646.034 291.7040 195.5240 2220.6500  514.170
## ORI_14631_14598 531.387 1008.010 1419.640 203.2310 188.0910 2604.5500  869.279
## ORI_14633_14599 260.697 1870.580 1172.380 179.5310 268.4310 2716.2400  982.388
## ORI_14635_14600 282.707 1838.250 1469.470 232.1880 251.1410 2087.5200  882.015
## ORI_14639_14602 859.409 1717.010  866.474 181.3680 185.9700 2268.4900  711.909
##                 [,1190] [,1191]  [,1192] [,1193] [,1194] [,1195] [,1196]
## ORI_10219_10218 273.023 205.238 1025.410 318.283 368.464 506.076 1768.73
## ORI_10735_10730 505.667 232.944  703.805 325.137 551.632 422.945 1651.00
## ORI_14605_14585 223.057 241.171 1055.890 372.908 451.746 397.447 1561.95
## ORI_14607_14586 369.206 258.562  886.474 307.820 402.861 686.229 1538.56
## ORI_14609_14587 347.905 150.423  892.982 415.889 479.357 720.095 1943.67
## ORI_14617_14591 233.824 154.901 1005.440 393.083 337.161 487.465 1483.82
## ORI_14623_14594 193.986 300.759 1042.930 427.124 356.398 381.268 1374.36
## ORI_14629_14597 169.423 324.417  491.528 201.357 274.335 333.442 1045.31
## ORI_14631_14598 278.220 230.450 1258.670 523.472 715.407 482.665 2053.72
## ORI_14633_14599 350.177 284.448  922.226 418.026 455.090 295.702 1824.87
## ORI_14635_14600 270.185 309.618  800.842 587.628 333.731 505.756 1635.42
## ORI_14639_14602 243.039 266.092  557.499 175.406 343.251 206.098 1222.57
##                   [,1197]  [,1198]  [,1199]  [,1200]  [,1201]  [,1202]  [,1203]
## ORI_10219_10218   31.7405  65.7278  281.765  670.155 219.6730  966.166 1242.330
## ORI_10735_10730   64.4922  60.3951  315.171 1031.100 285.4520 1090.730 1829.570
## ORI_14605_14585  314.8430  50.3172  257.614  809.330 211.4070  759.056 1519.570
## ORI_14607_14586 1550.1200  41.3533  283.440  788.416 152.3950  532.571 1582.800
## ORI_14609_14587  476.4870  39.9643  400.620  798.693 350.7440  635.092 2216.850
## ORI_14617_14591   75.6628  29.7941  226.452  734.416 177.2160  655.241 1439.010
## ORI_14623_14594  125.4680  60.2699  359.920  760.929 175.4740  855.684 1463.700
## ORI_14629_14597   87.2050  61.9616  324.829 1079.940 189.7370  889.905 1818.840
## ORI_14631_14598  299.2950 165.8380  420.481 1251.540 325.8640  702.741 2364.970
## ORI_14633_14599  106.2290  53.6227  219.798  716.273 199.3680  942.166 1651.910
```

```
## ORI_14635_14600   77.4170  53.9870  411.514  657.975 209.0830  862.257 1702.670
## ORI_14639_14602   77.3639  36.8927  432.477  556.073 142.8940  814.722 1434.860
##                  [,1204] [,1205] [,1206]   [,1207]  [,1208] [,1209] [,1210]
## ORI_10219_10218 1701.750 222.620 222.902   48.4489  809.884 420.767 226.352
## ORI_10735_10730 1564.210 468.491 339.828  437.8300 1550.920 336.518 399.188
## ORI_14605_14585 1347.270 329.388 288.872   74.2185 1107.490 393.581 243.215
## ORI_14607_14586  889.395 261.290 399.265  466.5150 1423.000 324.903 217.492
## ORI_14609_14587 1665.010 395.782 480.844  800.1510 1573.800 329.888 216.315
## ORI_14617_14591 1806.850 181.416 132.389   32.8741 1042.570 235.543 510.709
## ORI_14623_14594 1394.590 254.955 167.722   41.3541 1037.340 325.158 276.347
## ORI_14629_14597 1822.390 282.252 248.107   96.5653 1530.890 389.023 463.508
## ORI_14631_14598 1552.990 363.166 348.591  743.4880 1808.360 410.048 308.367
## ORI_14633_14599 1701.860 510.981 226.713  268.0310  957.709 417.407 388.465
## ORI_14635_14600 1186.060 246.220 284.397  174.6990 1060.750 428.780 269.325
## ORI_14639_14602 2092.220 138.720 278.596   90.6874 1233.650 460.909 339.466
##                  [,1211]  [,1212]  [,1213]  [,1214]  [,1215]   [,1216]  [,1217]
## ORI_10219_10218 1242.940  68.4502 147.1680 210.2490  82.4977  415.3760  926.666
## ORI_10735_10730  955.083 310.6090 155.0260 301.3750 416.4640  247.5510  825.777
## ORI_14605_14585  810.180 245.5730 311.7880 304.3060 322.3020  501.6940  878.643
## ORI_14607_14586  906.498 110.9090 101.7700 182.3560 197.5410  292.1100  866.658
## ORI_14609_14587  686.289 239.6460 149.9660 415.8200 294.3240  748.3600  691.761
## ORI_14617_14591  880.852 171.5280 153.1500 154.6280  99.2515  287.8180  645.256
## ORI_14623_14594 1107.030 141.6190 162.4490  84.9167  91.1879  371.1250  934.929
## ORI_14629_14597  748.738  79.0013 124.8200 423.6710 165.0580  182.0300  899.394
## ORI_14631_14598  862.286 267.0440 100.4290 161.6810 290.8020  403.3920  827.768
## ORI_14633_14599  852.026 127.0260  97.4792  94.5717 122.5700  307.7610 1004.650
## ORI_14635_14600 1125.820 122.9070 149.0110 105.7810 123.0470  251.6890  927.871
## ORI_14639_14602 1022.710  28.2082 158.1650 180.6470  72.2933  213.2680  942.238
##                 [,1218]  [,1219] [,1220] [,1221]  [,1222] [,1223]  [,1224]
## ORI_10219_10218 346.715 179.4070 229.444 304.702 142.7410 469.101 117.4140
## ORI_10735_10730 545.854 550.2690 194.550 336.928 211.0190 495.368 358.8830
## ORI_14605_14585 436.331 273.4000 136.000 317.664 125.3570 587.833 178.1130
## ORI_14607_14586 378.628 117.2140 163.589 339.185 197.4040 714.580 148.5600
## ORI_14609_14587 459.254 358.0480 220.104 450.259 273.6450 705.408 158.9980
## ORI_14617_14591 382.705 332.7800  91.195 370.481 208.9130 744.316 164.9450
## ORI_14623_14594 359.089 217.6780 165.373 346.840 131.2600 378.810 190.5810
## ORI_14629_14597 439.159 193.1290 395.741 299.240 302.8980 810.263 174.4170
## ORI_14631_14598 794.165 426.3900 282.686 522.723 236.9780 848.009 152.1790
## ORI_14633_14599 395.826 202.2660 216.087 284.787 144.4150 418.802 147.2050
## ORI_14635_14600 400.919 322.6870 318.592 463.691 146.6150 445.226 192.6920
## ORI_14639_14602 543.664 535.6730 251.415 388.382 183.4320 505.579 242.8750
##                  [,1225]  [,1226] [,1227]  [,1228] [,1229]   [,1230]  [,1231]
## ORI_10219_10218 287.1370 180.6770 373.727  473.704 330.819  401.4520 1854.970
## ORI_10735_10730 136.7840 155.3040 594.364  727.946 179.495  449.6150  292.669
## ORI_14605_14585 114.7900 262.8560 491.695  634.716 261.336   43.3033  422.831
## ORI_14607_14586 121.5670 284.1650 412.076  396.272 239.992   81.5370 1070.080
## ORI_14609_14587 150.3320 276.9090 554.600  723.798 175.330   24.6827  599.666
## ORI_14617_14591 209.9830 182.0010 541.420  581.071 126.785  274.8180 2310.500
## ORI_14623_14594 180.0290 102.6020 476.250  415.688 356.061   92.0069 2084.720
## ORI_14629_14597  98.8766 111.0720 405.069  354.679 249.656   24.6827  697.771
## ORI_14631_14598 151.1950 300.2170 422.358  698.353 198.559   70.4949  464.510
## ORI_14633_14599 133.5180 187.3720 623.933  528.294 277.549  316.5900  652.237
## ORI_14635_14600 196.0490 130.8580 603.108  448.190 265.494  150.0630  688.294
## ORI_14639_14602 191.5200  81.2077 692.160  213.613 342.392 1024.1900  466.336
```

```
##                   [,1232] [,1233]  [,1234]   [,1235]  [,1236] [,1237]  [,1238]
## ORI_10219_10218   24.6827 454.469  746.959   26.5012 325.3590 181.148  498.134
## ORI_10735_10730  219.3740 287.221  702.922  141.5920  80.8342 347.573 1203.110
## ORI_14605_14585   24.6827 569.626  906.111   24.6827 198.7400 226.263  702.799
## ORI_14607_14586  276.2600 342.288  416.012   48.5321 110.0720 223.483  775.154
## ORI_14609_14587   95.8366 297.840 1356.200 1638.7100 204.8930 225.086  744.923
## ORI_14617_14591   24.6827 267.616  552.021   24.6827 214.4690 139.920  655.518
## ORI_14623_14594   24.6827 621.488  363.314   24.6827 187.7630 278.564  555.862
## ORI_14629_14597 1612.9500 348.537  526.201   38.7959 122.8340 364.975  842.696
## ORI_14631_14598  254.0040 344.379 1567.550 1269.1700 138.9090 298.088  996.551
## ORI_14633_14599   24.6827 472.911  283.711   35.7453 116.7710 234.669  484.410
## ORI_14635_14600   24.6827 573.249  423.245   24.6827 154.8490 234.558  520.982
## ORI_14639_14602   34.1803 520.628  371.478   24.6827  86.4363 254.351  531.606
##                 [,1239]  [,1240]   [,1241] [,1242] [,1243] [,1244]  [,1245]
## ORI_10219_10218 551.444  707.533  976.1260 361.296 678.755 198.351 334.6280
## ORI_10735_10730 470.994  982.652   83.1107 319.908 392.669 146.654  51.6540
## ORI_14605_14585 332.122  650.203   24.6827 436.902 276.337 246.705  49.4723
## ORI_14607_14586 459.934  552.157  231.3790 389.653 434.025 180.587 182.7650
## ORI_14609_14587 383.176  620.184  126.9370 241.892 316.990 235.264  62.1330
## ORI_14617_14591 378.276  566.661  515.8920 352.531 762.641 243.690 326.9570
## ORI_14623_14594 515.892  472.484  343.7290 448.229 701.756 307.995 138.1200
## ORI_14629_14597 862.078  288.817  174.2750 398.615 149.491 204.085  31.3514
## ORI_14631_14598 568.242  456.713   59.5132 411.419 292.778 239.133  74.8379
## ORI_14633_14599 609.753  684.107  122.8060 465.379 505.988 213.032  71.7682
## ORI_14635_14600 597.268  404.748  243.8180 446.896 694.512 280.665 131.3970
## ORI_14639_14602 492.604  456.831   74.8738 517.411 420.250 218.342  38.1916
##                 [,1246]  [,1247] [,1248]  [,1249] [,1250]  [,1251]  [,1252]
## ORI_10219_10218 570.760 343.3490 2109.41 1255.110 147.672 412.3790  947.352
## ORI_10735_10730 506.378  24.6827 1848.75  412.189 304.019 429.0840  285.732
## ORI_14605_14585 313.655  24.6827 1937.24  761.511 279.646 155.3760  270.284
## ORI_14607_14586 419.300 129.9350 1425.47  658.302 209.151 226.5990  357.756
## ORI_14609_14587 294.790  24.6827 1307.59  386.071 291.722 335.7730  375.473
## ORI_14617_14591 745.622 416.8400 1150.23  485.740 251.667 470.4330  792.999
## ORI_14623_14594 613.154 191.2820 1883.73 1054.640 189.461 225.5810  330.594
## ORI_14629_14597 272.204  24.6827 2368.54  596.608 328.754  55.4102  261.856
## ORI_14631_14598 386.684  24.6827 1507.05  486.546 215.472 251.9310  480.552
## ORI_14633_14599 429.444  24.6827 1824.25  764.785 335.284 194.0880  210.872
## ORI_14635_14600 429.391  37.5966 1636.40  835.205 346.356 430.1210  399.343
## ORI_14639_14602 359.218  24.6827 2322.31  594.120 270.586 106.4250  264.151
##                  [,1253] [,1254] [,1255] [,1256]  [,1257] [,1258] [,1259]
## ORI_10219_10218 252.5180 362.668 283.051 132.054 111.5580 3408.30 6513.29
## ORI_10735_10730  72.3185 115.259 198.112 317.537 267.0630 2896.38 3751.07
## ORI_14605_14585  32.7914 124.566 234.878 166.986 163.8600 3350.62 5296.13
## ORI_14607_14586 157.4440 358.427 221.372 194.114 208.9170 2705.62 5538.98
## ORI_14609_14587  40.5719 148.884 148.042 144.671 305.6700 3442.96 5320.79
## ORI_14617_14591 363.2540 504.857 132.761 132.208  95.0778 3156.36 5493.41
## ORI_14623_14594 133.3260 512.182 236.953 156.330 136.2710 2438.46 5403.42
## ORI_14629_14597  35.0513 158.359 255.249 342.407 163.3170 3384.34 4588.70
## ORI_14631_14598  25.8388 128.279 211.413 218.904 241.1000 2880.99 5304.11
## ORI_14633_14599  64.5084 189.754 293.842 497.974 173.0760 2765.02 5121.01
## ORI_14635_14600  92.7946 233.942 231.810 287.436 265.4860 1963.88 4693.78
## ORI_14639_14602  53.7611 158.944 269.278 166.600 156.2030 2442.21 4449.73
##                  [,1260]  [,1261]   [,1262]  [,1263]  [,1264]  [,1265]  [,1266]
## ORI_10219_10218 2801.320  787.965  224.3370 248.5790 267.7190 448.2030  422.082
```

```
## ORI_10735_10730 1262.020 1332.370  393.9170 248.9270  71.6696  51.9891  337.894
## ORI_14605_14585  911.038 1004.830  216.9930 124.0390  74.5007 119.7500  645.842
## ORI_14607_14586 1361.230  983.195  404.0610 231.6690 188.1830 227.1390  512.992
## ORI_14609_14587  797.658  833.665  243.2140 177.3960 149.1110 127.9350  625.234
## ORI_14617_14591 2251.650  672.020  144.6420 247.1240 219.4990 254.1060  575.201
## ORI_14623_14594 1638.100  642.293  200.0920 193.3380 251.0470 278.5780 1002.390
## ORI_14629_14597  561.369  838.689  290.6630 201.5030  62.8800 141.6630  842.403
## ORI_14631_14598  816.270 1009.320  275.0840 177.1670  78.7036 159.8930  692.736
## ORI_14633_14599  752.797  938.324  261.3570 183.3530 132.1560 175.1350  593.175
## ORI_14635_14600  946.448  732.541  258.3000 127.2590 133.6540 218.3420  840.429
## ORI_14639_14602  641.320  713.916  297.1230  93.2564  78.9576 187.0140  634.749
##                   [,1267]  [,1268]  [,1269]  [,1270]  [,1271]  [,1272] [,1273]
## ORI_10219_10218  574.5250 1055.110 4006.100 1441.990 1294.340  801.145 250.626
## ORI_10735_10730  130.7410  331.629  814.112  352.880  829.071  632.153 428.658
## ORI_14605_14585  130.2600  597.388 2307.840  440.227 1132.940  802.188 270.709
## ORI_14607_14586  203.5250  820.034 3128.670  920.676 1102.750  756.896 181.983
## ORI_14609_14587  147.2380  655.817 2244.790  488.851 1041.470  435.645 263.848
## ORI_14617_14591  598.2190 1334.700 4459.630 1140.080 1647.470  345.643 304.488
## ORI_14623_14594  293.3400  848.920 3935.690 1364.740  975.478  935.531 343.727
## ORI_14629_14597  368.3460  784.173 1545.030  650.744 1525.800  819.782 235.902
## ORI_14631_14598  152.9160  766.348 2222.410  600.485 1102.440  630.582 266.616
## ORI_14633_14599  195.9890  738.665 1567.020  662.902 1040.210  698.187 306.362
## ORI_14635_14600  253.5240  624.173 2213.050  349.112 1083.140  781.311 387.987
## ORI_14639_14602  218.0810  421.810  949.535  296.854 1037.520  694.303 532.437
##                  [,1274]  [,1275] [,1276]  [,1277]  [,1278]  [,1279]   [,1280]
## ORI_10219_10218 538.4310 1141.640 2511.05 1218.830 1279.020  713.002  144.9140
## ORI_10735_10730 142.9760  487.235 3065.63 1767.030  961.815  600.373  404.8800
## ORI_14605_14585 194.8510  403.440 2994.05 1535.860  800.194  831.088  782.8600
## ORI_14607_14586 191.2400  735.634 2467.82 2159.010  692.827  542.200  709.2040
## ORI_14609_14587 161.7500  533.412 3431.27 1814.550  718.635  948.667  523.3270
## ORI_14617_14591 601.8080 1102.950 2387.60 1349.410  743.594  725.221  138.5240
## ORI_14623_14594 217.3720  714.766 1782.01 1127.260 1237.750  772.237   76.7921
## ORI_14629_14597  24.6827  451.117 3599.90 1317.810  587.597  631.664  225.9780
## ORI_14631_14598  68.2149  529.906 3107.87 1767.140  991.264  672.557  399.5490
## ORI_14633_14599 122.6550  460.602 3399.08 1589.660 1070.880  705.027  104.7340
## ORI_14635_14600 222.7970  505.705 2638.53 1447.880 1090.030  770.809   68.0236
## ORI_14639_14602 110.5610  235.561 2584.68  926.889  717.096  741.779   91.8044
##                  [,1281]  [,1282]   [,1283] [,1284] [,1285]  [,1286] [,1287]
## ORI_10219_10218  467.998 1246.960 1454.9300 219.744 217.704 1784.420 400.091
## ORI_10735_10730 1031.450 1868.730  123.1220 397.407 360.699 2172.010 226.041
## ORI_14605_14585 1062.100 1943.620 2112.8700 227.894 275.991 1469.700 479.003
## ORI_14607_14586 1203.660 2067.720  372.5020 199.118 299.727 2139.210 447.146
## ORI_14609_14587 1126.560 2461.670  822.1630 218.189 455.166 1754.080 299.318
## ORI_14617_14591  678.894 1263.620  707.3310 164.231 309.749 1370.470 339.540
## ORI_14623_14594  927.712  948.695  401.8910 246.778 239.665  856.266 546.506
## ORI_14629_14597 1206.580 1952.720  377.8320 304.939 281.215  812.990 568.910
## ORI_14631_14598 1325.690 2102.040  215.0030 240.654 322.207 1665.870 390.292
## ORI_14633_14599  648.951 2399.420  230.4070 304.187 352.412 1802.860 568.029
## ORI_14635_14600  890.361 1063.820  582.3400 273.265 356.305 1027.730 445.828
## ORI_14639_14602  734.473 1207.280  200.1040 474.836 304.246 1782.900 447.364
##                  [,1288]  [,1289]  [,1290] [,1291]  [,1292] [,1293]  [,1294]
## ORI_10219_10218 1476.600 1129.140  759.868 190.937 120.9270 292.997 107.2060
## ORI_10735_10730 1603.600 1046.540 1213.920 172.130 125.9220 747.753 204.0060
## ORI_14605_14585 1827.350 1013.870  830.557 212.103  92.2323 386.630 117.4570
```

```
## ORI_14607_14586 1704.330 1445.040 1546.340 239.399 157.0740 518.640 113.5360
## ORI_14609_14587 1788.360 1574.510  996.244 293.904 157.1550 335.182 286.8210
## ORI_14617_14591 1451.450 1051.740  638.262 132.287  52.7521 270.518  54.4569
## ORI_14623_14594 1696.090  733.301  591.539 143.757  72.7877 463.573  70.9752
## ORI_14629_14597 1582.300 1178.820  622.991 155.538  64.7521 434.895 149.2220
## ORI_14631_14598 1798.320 1606.350  889.188 216.958  79.5331 565.756 269.0890
## ORI_14633_14599 1644.700 1108.210 1231.220 188.394 107.4620 468.702 153.0410
## ORI_14635_14600 1773.860 1020.200  891.900 160.091  97.6748 418.561  69.8351
## ORI_14639_14602 1077.520 1378.290  514.113 143.647  48.0398 508.875  59.9092
##                 [,1295]  [,1296]  [,1297]  [,1298]  [,1299]  [,1300] [,1301]
## ORI_10219_10218 204.455 1560.490  390.642 233.5260 1259.610  696.887 458.458
## ORI_10735_10730 515.226 2387.600  219.064 289.5440 1271.260  788.554 586.902
## ORI_14605_14585 254.918 1521.780  240.548 388.5450 1932.420  669.860 536.410
## ORI_14607_14586 363.996 1601.510  328.370 129.0760 1199.040  446.345 759.712
## ORI_14609_14587 332.743 2092.670  180.221 285.5120 1722.110  925.207 701.193
## ORI_14617_14591 301.611 1604.680  211.399 239.7630 1975.910  599.084 258.285
## ORI_14623_14594 330.637 1098.540  297.018 144.4130 1506.310  529.542 410.771
## ORI_14629_14597 287.118 1743.090  257.411 299.6830 1374.700  778.401 295.129
## ORI_14631_14598 320.417 2422.610  202.945 186.9910 1534.020  774.882 443.999
## ORI_14633_14599 339.694 1789.270  252.775 252.1820 1074.660 1353.030 543.924
## ORI_14635_14600 360.226 1267.150  251.891 295.9510 1572.680  498.707 403.025
## ORI_14639_14602 375.651 2100.560  254.648 263.4510 1870.510  749.465 339.450
##                 [,1302]  [,1303]  [,1304]  [,1305]  [,1306] [,1307] [,1308]
## ORI_10219_10218 135.476  66.2797  667.532 121.9090 112.9410 275.600 409.627
## ORI_10735_10730 328.420 236.3910  898.541 245.1370 208.4110 286.548 235.387
## ORI_14605_14585 178.255 134.9140  865.085 237.3570  67.6956 350.212 419.475
## ORI_14607_14586 245.234 394.6370  713.672 248.3920 197.9810 305.369 456.113
## ORI_14609_14587 327.837 343.5880  522.656 278.8680 243.7590 334.660 248.133
## ORI_14617_14591 181.168  43.7215  651.977 127.9550  47.9833 296.231 350.217
## ORI_14623_14594 156.449  55.6814  880.299 243.3270  51.7040 283.525 531.583
## ORI_14629_14597 309.577  71.1552  787.280 278.4550 566.7320 288.582 593.506
## ORI_14631_14598 448.990 257.2300  562.426 221.7500 122.7690 290.707 337.202
## ORI_14633_14599 234.093 130.7730  815.910 134.8520  77.4945 393.519 363.074
## ORI_14635_14600 288.294  73.9909  477.543 236.0650  52.7668 317.046 380.521
## ORI_14639_14602 449.142 108.6740  880.875 152.1700 107.8210 205.829 413.699
##                 [,1309]  [,1310]   [,1311]  [,1312]  [,1313]  [,1314]  [,1315]
## ORI_10219_10218 397.719  776.735   71.3156 152.7610  752.876  649.554 236.1490
## ORI_10735_10730 581.628 1015.020 1459.2700 866.5680  729.310 1146.110 271.6460
## ORI_14605_14585 294.772  900.828  254.2860 190.7370  648.951 1144.090 253.1320
## ORI_14607_14586 571.511 1187.530 1162.5200 252.6970  691.722  979.565 440.4540
## ORI_14609_14587 591.405 1000.680  901.7770 477.6490  400.302 1266.720 443.9370
## ORI_14617_14591 139.067  500.099  116.1320 133.5140  796.114  739.966 421.7760
## ORI_14623_14594 103.171  503.751  125.1320 162.1470  623.317  754.649 334.1570
## ORI_14629_14597 285.974  630.389  268.4830 193.6260  900.476  958.759 199.2670
## ORI_14631_14598 419.442 1066.240  997.3680 311.3620  483.826 1750.040 383.0920
## ORI_14633_14599 242.315  819.106  182.1060  80.7193  807.524  719.319 244.5900
## ORI_14635_14600 151.065  572.483  340.5440 115.4100  519.539 1177.000 342.2070
## ORI_14639_14602 159.957  409.934  481.9970 364.9570  682.748 1081.720 254.8530
##                  [,1316]  [,1317]   [,1318]  [,1319]  [,1320] [,1321]  [,1322]
## ORI_10219_10218 515.7300 148.4090  268.1050 1232.030  899.836 236.607 238.3060
## ORI_10735_10730 465.8810 284.2940  736.6150  877.645 1835.620 314.432 403.9640
## ORI_14605_14585 506.2160 120.5060  365.8320  723.038 1330.030 284.200 364.0910
## ORI_14607_14586 261.1250 283.6550  265.5070  812.411 1361.580 237.760 154.7760
## ORI_14609_14587 455.5260 179.4450  283.1540  678.651 1861.010 191.138 416.1440
```

```
## ORI_14617_14591 273.7620 147.9840  597.9870  746.028 1429.750 182.103 193.4790
## ORI_14623_14594 170.0670  93.7092  408.0710 1281.880 1610.480 210.370 242.4360
## ORI_14629_14597 403.1690 303.6700  135.2340  923.806 1994.740 313.750 269.0640
## ORI_14631_14598 400.5960 241.5290  287.9730  902.558 1786.940 152.056 317.7890
## ORI_14633_14599  95.8278 152.2260  778.2470 1375.380 1920.980 295.589 308.6950
## ORI_14635_14600 142.1020 120.5150  493.7880 1040.270 1853.350 202.580 217.1900
## ORI_14639_14602 511.2280 424.8010  394.0480  918.889 1974.940 418.929 253.9570
##                  [,1323]  [,1324] [,1325]   [,1326]  [,1327]  [,1328]  [,1329]
## ORI_10219_10218 1914.370  864.935 310.017 1388.1300 230.6250  220.927 266.8510
## ORI_10735_10730 1031.060  252.813 303.953  112.1720  60.0830  135.948 125.6120
## ORI_14605_14585 1143.270  433.219 363.924  181.0050  70.9349  215.559 279.4710
## ORI_14607_14586 1582.150  511.231 205.701  632.5720  79.4065  255.597 176.6940
## ORI_14609_14587 1319.390  578.858 240.953  218.5700  69.4217  118.965 154.2870
## ORI_14617_14591 2105.380 1009.360 292.226 1226.3600 218.4930  143.687 142.4250
## ORI_14623_14594 1778.570  464.086 294.344  776.8280 213.4180  247.424 418.4740
## ORI_14629_14597 1195.620  233.551 304.125  210.9220  78.9715  210.518 181.2730
## ORI_14631_14598 1204.690  297.850 268.921  182.8260  66.7396  176.060 210.2920
## ORI_14633_14599  947.025  346.874 517.609  361.9310  69.7537  170.187 231.1380
## ORI_14635_14600 1138.690  353.046 435.723  512.2110 114.3120  225.430 360.1560
## ORI_14639_14602 1165.960  154.773 378.407  296.6630  78.0246  226.409 202.3150
##                  [,1330] [,1331]   [,1332]   [,1333]   [,1334]   [,1335]
## ORI_10219_10218  264.448 317.756  242.5130   24.6827 2245.2500 2224.9500
## ORI_10735_10730  166.894 154.057 1753.2400  117.0140  128.0840   89.1214
## ORI_14605_14585  326.872 294.042  303.8940   24.6827 1265.7300  726.4600
## ORI_14607_14586  906.683 265.877 1921.5700  805.3710 2986.9100 3552.4300
## ORI_14609_14587  159.193 204.165 2218.2100  305.8660  291.2200  402.9560
## ORI_14617_14591  178.249 126.846   24.6827   24.6827  116.0000  107.9850
## ORI_14623_14594  243.982 367.954  290.4470   24.6827  212.5760  496.3400
## ORI_14629_14597  184.947 339.828  322.0720   24.6827  449.6350  439.7680
## ORI_14631_14598  296.778 258.417 2361.4200  459.5150  141.0370  197.4390
## ORI_14633_14599  226.677 268.872  177.5670   24.6827  169.5200  177.2200
## ORI_14635_14600  256.151 288.658   24.6827   24.6827   81.3415   94.2956
## ORI_14639_14602  296.608 302.556   97.2801   24.6827   58.2309   91.5731
##                   [,1336]   [,1337]  [,1338]  [,1339]  [,1340]  [,1341]
## ORI_10219_10218  107.7760  198.4440 177.0530 109.7460  66.8327  450.399
## ORI_10735_10730  101.0120  178.6460 259.1010 172.4380 296.9710  646.406
## ORI_14605_14585  129.4710  167.0140 275.6470 137.1690 191.1850  397.302
## ORI_14607_14586  462.3550 1483.4200 100.7140  55.0584  74.6998  347.276
## ORI_14609_14587  171.0920  185.7400 395.6640 111.7770 120.8290  441.109
## ORI_14617_14591   68.0294   56.1392 159.9350  78.2696  63.1100  580.515
## ORI_14623_14594  104.1080   87.5348  94.2825 185.5820 113.7080  538.561
## ORI_14629_14597  141.3020  146.4610 273.6160 114.4890 105.9870  416.737
## ORI_14631_14598  138.4720  168.1390 318.0890 131.8460 221.5010  376.231
## ORI_14633_14599  130.3630   77.7776 191.2930 141.0380 125.6800  621.690
## ORI_14635_14600  119.2800   90.4832 212.0910 246.2570 302.4380  767.411
## ORI_14639_14602  106.5950   92.3057 181.2730 217.1500 381.2690  700.186
##                  [,1342] [,1343]   [,1344]  [,1345]  [,1346] [,1347]  [,1348]
## ORI_10219_10218  189.415 416.036  183.5370 1008.630  813.315 194.581 128.0200
## ORI_10735_10730  505.752 601.616  239.7780 2815.070  592.690 226.814 139.1580
## ORI_14605_14585  485.701 475.928  150.8370 1816.200  548.646 181.002 100.9170
## ORI_14607_14586  213.207 874.207  460.1060 1562.780  740.957 119.968  32.2978
## ORI_14609_14587  257.692 719.608  206.9850 2594.850  637.473 183.863  96.7621
## ORI_14617_14591  142.739 487.931  162.7010 1394.630  657.795 141.625  24.6827
## ORI_14623_14594  310.481 419.769  230.0030 2215.500  579.545 167.876  62.0810
```

```
## ORI_14629_14597  293.481 475.070  231.1240 2498.380  441.194 165.495  24.6827
## ORI_14631_14598  275.055 644.414  176.5710 1587.480  957.823 187.966  71.9221
## ORI_14633_14599  378.868 682.518  359.2910 2329.050  517.968 143.853  59.5836
## ORI_14635_14600  520.062 599.638  267.4050 2196.950  666.218 149.597  83.5219
## ORI_14639_14602  595.509 474.990 1047.9400 2257.760  413.055 265.119  81.4317
##                 [,1349]  [,1350] [,1351] [,1352] [,1353]  [,1354] [,1355]
## ORI_10219_10218 404.614  562.923 415.862 1967.66 361.835 192.9850 239.944
## ORI_10735_10730 538.237  500.876 412.303 2349.08 540.711 471.9270 150.780
## ORI_14605_14585 647.140  693.511 364.866 2535.22 481.234 267.8500 195.943
## ORI_14607_14586 891.310  614.072 443.336 2940.68 861.742 280.0360 145.915
## ORI_14609_14587 760.002  542.797 634.079 2305.82 802.560 420.7470 208.815
## ORI_14617_14591 486.045  751.398 477.815 3085.66 412.348 192.0790 211.928
## ORI_14623_14594 247.971  803.276 478.790 2825.51 394.627 210.1310 237.950
## ORI_14629_14597 260.686  554.118 456.628 2183.65 667.300 196.8880 283.125
## ORI_14631_14598 674.695  550.764 606.159 2232.48 606.837 227.9900 252.220
## ORI_14633_14599 383.939  342.223 537.295 2057.12 509.657 285.3500 177.587
## ORI_14635_14600 509.941  707.883 622.731 2998.75 536.924 305.4890 172.418
## ORI_14639_14602 567.750  718.071 460.035 3188.21 615.714 211.9730 176.425
##                   [,1356]  [,1357]  [,1358] [,1359] [,1360]  [,1361]  [,1362]
## ORI_10219_10218  132.2120 1140.730 1111.720 1298.12 1269.79  658.586 1177.060
## ORI_10735_10730  389.9260 1532.530 1529.020 1652.16 2382.22  698.464 1417.960
## ORI_14605_14585  487.2570 1308.180 1125.240 1421.86 1308.55 1203.400 1509.650
## ORI_14607_14586 1170.9300 1044.700  990.791 1535.87 1360.82  460.329 1120.060
## ORI_14609_14587  487.2790 1599.750 1194.430 1473.14 1633.02  841.899 1396.510
## ORI_14617_14591   88.4537 1362.870 1047.860 1780.11 1157.94  933.358 1224.390
## ORI_14623_14594  142.2180  909.296 1180.960 1396.91 1743.36  524.025 1192.970
## ORI_14629_14597  263.1510 2058.630  992.002 1204.71 1771.10  724.609 1401.230
## ORI_14631_14598  386.9660 1944.470 1201.450 1790.40 1981.06  973.959 1397.810
## ORI_14633_14599  256.4470 1842.960 1498.390 1610.90 1508.28  560.158 1633.700
## ORI_14635_14600  138.6690 1772.090 1606.230 2154.34 2160.92  778.740 1853.510
## ORI_14639_14602   85.7477 1689.540 1247.380 1533.03 2092.85  798.519 1577.790
##                  [,1363]   [,1364]  [,1365]   [,1366]  [,1367] [,1368] [,1369]
## ORI_10219_10218  938.986  538.4630  123.465  444.8540  910.436 163.410 406.934
## ORI_10735_10730  984.316 1888.3900  939.253 3167.3200  946.552 360.264 309.141
## ORI_14605_14585 1002.830  852.8790  402.992 1140.7200  995.747 263.694 558.751
## ORI_14607_14586 1212.920 4876.2700  779.582 5606.0700 1143.040 539.327 261.220
## ORI_14609_14587 1267.980 2089.9700  251.389 3694.4300 1376.580 182.256 251.292
## ORI_14617_14591 1218.940  160.8760  213.690  232.9990  624.203 118.402 316.732
## ORI_14623_14594  900.971  155.5980  125.526  378.3110  621.817 148.846 379.891
## ORI_14629_14597  977.022  448.2460  899.781  877.3220  704.734 236.198 364.861
## ORI_14631_14598 1409.180 2270.5300  683.617 3714.9100 1275.780 412.281 325.985
## ORI_14633_14599 1100.930  943.4200  187.558 1914.3200  819.303 184.493 401.069
## ORI_14635_14600 1296.820  445.3620   66.963  704.9010  794.369 178.138 497.693
## ORI_14639_14602 1543.260  260.7180  433.612  562.5500  665.703 305.636 513.883
##                   [,1370] [,1371]   [,1372]  [,1373] [,1374]  [,1375]   [,1376]
## ORI_10219_10218  241.5290 420.308   93.1483 123.6880 285.630  24.6827  120.2700
## ORI_10735_10730  170.4250 364.742  760.0280 278.6050 300.030 104.9860  213.4120
## ORI_14605_14585  162.6130 594.893  517.0810 127.3830 403.308  86.1647  141.0450
## ORI_14607_14586  607.3690 474.249  191.0500 170.6430 234.850 155.1210  297.1910
## ORI_14609_14587  115.2870 339.732 1212.5600 316.0380 372.920 125.2350  196.8850
## ORI_14617_14591  163.7310 346.702  446.3590 103.1760 465.563  24.6827   90.9411
## ORI_14623_14594  168.7840 430.202  534.6020  59.2467 344.941  24.6827  135.8480
## ORI_14629_14597  190.5700 446.265   24.6827 115.2810 637.194  32.8501  184.5190
## ORI_14631_14598  122.8840 415.208   59.1987 183.3900 484.356 117.5680  225.0140
```

```
## ORI_14633_14599  144.4980 554.672  887.1810 125.6550 307.680  39.4093  217.7290
## ORI_14635_14600  136.1580 615.749  887.2600 114.3940 586.068  24.6827  123.7600
## ORI_14639_14602  124.5610 492.418  420.5990  92.4222 326.384  24.6827  155.7490
##                  [,1377]  [,1378] [,1379]   [,1380] [,1381]  [,1382]  [,1383]
## ORI_10219_10218  65.3529 137.2100 196.237  120.1840 481.667  89.5790  853.946
## ORI_10735_10730  95.5164 209.3980 163.235  989.4790 264.964 141.9450 1068.100
## ORI_14605_14585  83.7558 383.3510 234.830  241.5780 234.023 171.9520 1242.370
## ORI_14607_14586 124.8600 557.2790 275.971  748.8150 189.536 281.7420 2322.500
## ORI_14609_14587  74.0163 295.1000 162.759  751.1500 214.526 148.0680 1336.130
## ORI_14617_14591  66.8681  44.2845 104.219   81.5514 159.058  77.9592  551.456
## ORI_14623_14594  59.8164  86.2071 319.752   94.1333 293.575 134.2090  592.325
## ORI_14629_14597  91.1656  94.6825 253.221  337.0160 194.085 109.4380  555.240
## ORI_14631_14598 144.4300 225.7530 193.243  732.6410 350.691 153.8590 1143.110
## ORI_14633_14599  55.3888 171.7090 392.217  552.5420 200.452 144.8900  888.138
## ORI_14635_14600  73.1463 112.0980 237.005  129.3510 198.577 139.4550  586.803
## ORI_14639_14602  69.8641  48.8545 177.069  124.9680 239.858 138.6620  412.174
##                  [,1384]  [,1385] [,1386] [,1387]  [,1388] [,1389] [,1390]
## ORI_10219_10218 109.3610  914.729 418.917 2347.93  62.9585 3232.50 4028.47
## ORI_10735_10730 365.0290 1549.040 156.991 3829.59 227.2950 3361.53 3267.25
## ORI_14605_14585 230.5310 1271.090 565.905 3650.46 245.9530 4784.60 3786.33
## ORI_14607_14586 410.4620 2479.600 850.446 4755.58 479.2480 8119.92 4414.66
## ORI_14609_14587 596.0120 1369.720 192.958 4065.03 106.8830 5606.22 3829.98
## ORI_14617_14591  82.1540 1004.600 395.466 2054.25  24.6827 2594.10 3214.95
## ORI_14623_14594  76.5575  797.524 420.731 1985.25  24.6827 2257.81 3440.53
## ORI_14629_14597 571.1540  869.927 232.128 4789.13  64.4172 2154.49 4078.84
## ORI_14631_14598 343.4860 1840.790 324.301 4073.96 137.2900 3625.97 4317.29
## ORI_14633_14599 145.0580 1497.250 233.101 3050.44  87.6964 5472.82 4653.08
## ORI_14635_14600  91.0572  546.359 482.619 1865.32  24.6827 2330.26 2870.21
## ORI_14639_14602 111.1590 1522.510 230.255 3379.40  24.6827 1600.50 3161.47
##                 [,1391] [,1392] [,1393]  [,1394] [,1395]  [,1396] [,1397]
## ORI_10219_10218 811.279 571.613 335.887 1412.060 269.672 1778.770 569.830
## ORI_10735_10730 682.175 403.158 247.222 3000.840 416.058 4914.310 723.712
## ORI_14605_14585 536.653 652.756 325.765 3197.860 289.768 2991.910 457.282
## ORI_14607_14586 778.563 785.486 334.684 1699.830 557.878 2930.900 799.353
## ORI_14609_14587 491.892 463.923 136.483 2704.060 265.754 3465.200 590.871
## ORI_14617_14591 302.570 258.430 140.524 1236.940 153.901 1352.410 783.553
## ORI_14623_14594 544.106 523.021 426.525 1922.360 193.247  788.931 469.482
## ORI_14629_14597 557.727 444.022 267.110 3131.350 559.308 2978.400 473.303
## ORI_14631_14598 501.780 471.865 190.250 2339.270 312.273 3734.630 567.998
## ORI_14633_14599 482.028 571.056 326.041 2578.180 133.528 1887.820 724.474
## ORI_14635_14600 457.264 476.118 285.449 1491.730 227.550  742.597 628.721
## ORI_14639_14602 473.948 364.836 310.744 3320.090 382.585 1341.510 512.447
##                 [,1398] [,1399] [,1400]  [,1401]  [,1402] [,1403]  [,1404]
## ORI_10219_10218 296.628 3167.29 445.615  24.6827  24.6827 226.324  24.6827
## ORI_10735_10730 254.881 2605.91 498.694 506.1070 302.7150 309.578 129.8130
## ORI_14605_14585 290.332 3913.87 521.460 189.5440 127.9810 303.336 132.2260
## ORI_14607_14586 300.040 2997.15 487.753  75.3758  32.9366 148.488  24.6827
## ORI_14609_14587 168.468 3638.18 586.376 264.5660  72.1265 309.276  63.5038
## ORI_14617_14591 238.017 3546.40 414.086  28.0417  24.6827 217.437  56.4088
## ORI_14623_14594 357.440 3427.93 380.478 115.3070 132.5350 194.225 137.6630
## ORI_14629_14597 318.919 3015.33 503.021 219.1710  33.7126 299.413  47.6679
## ORI_14631_14598 237.973 3358.11 463.083 268.5800 125.7690 345.071  83.1624
## ORI_14633_14599 304.032 3953.50 618.730 215.3340  88.2307 304.097  53.3704
## ORI_14635_14600 349.712 3259.55 569.733 212.0660 188.5040 252.573 124.4380
```

```
## ORI_14639_14602 289.370 2366.45 418.523 589.4300 224.5550 248.002 197.1740
##                  [,1405] [,1406] [,1407]  [,1408]  [,1409] [,1410] [,1411]
## ORI_10219_10218  513.364 192.658 445.794 209.1840  586.525 307.594 240.088
## ORI_10735_10730  768.073 168.759 601.402 222.7660  651.646 629.703 561.642
## ORI_14605_14585  839.620 261.107 433.793 182.0050  701.535 329.536 312.214
## ORI_14607_14586  783.599 163.592 527.307 224.4100  777.568 284.049 475.577
## ORI_14609_14587  553.494 192.964 664.650 213.0060 1268.580 421.079 447.220
## ORI_14617_14591  473.766 291.494 637.186 303.6040  778.336 367.763 414.096
## ORI_14623_14594  900.393 371.975 511.623 162.4570  809.434 342.790 246.151
## ORI_14629_14597  637.966 221.091 425.178 181.4730  912.556 324.876 343.862
## ORI_14631_14598  660.016 273.333 465.274 148.9440 1152.110 286.246 372.786
## ORI_14633_14599  968.650 237.458 361.843 137.1000  703.636 260.643 361.469
## ORI_14635_14600  941.949 292.886 605.134 213.6920  674.328 345.428 457.502
## ORI_14639_14602  561.557 238.894 357.962 122.5380  656.037 325.971 408.255
##                 [,1412]  [,1413]  [,1414] [,1415]  [,1416]  [,1417]  [,1418]
## ORI_10219_10218 565.885 473.2060  880.345 453.870 377.0630  810.499 215.4510
## ORI_10735_10730 468.532  97.0546  536.071 597.065 605.2380 1038.730 310.1550
## ORI_14605_14585 420.613  66.0158  751.610 494.744 539.6320 1332.700 244.8390
## ORI_14607_14586 601.048 148.4180  500.548 457.912 240.4300  714.357 111.7640
## ORI_14609_14587 501.973 102.1570  572.990 236.188 296.8550 2117.390 111.6980
## ORI_14617_14591 607.985 597.6570  891.947 327.287 204.1600 1251.760  67.7460
## ORI_14623_14594 497.223 245.2480  514.816 319.041 154.4420 1282.610 250.8620
## ORI_14629_14597 321.982  46.5756  551.337 371.361 202.9740 3079.040  94.5358
## ORI_14631_14598 599.183  81.7404  615.602 153.327 257.8860 2183.350 143.3520
## ORI_14633_14599 459.052  89.8637  427.377 330.181 190.0360 1552.160 248.3040
## ORI_14635_14600 737.241 165.8610  477.096 191.010 150.9700  755.142 150.2370
## ORI_14639_14602 349.169  70.1443  553.402 312.923 193.3050  846.978 290.2140
##                 [,1419] [,1420]  [,1421] [,1422] [,1423]  [,1424]  [,1425]
## ORI_10219_10218 400.281 218.996  80.1316 144.543 234.782  802.523  332.533
## ORI_10735_10730 587.199 471.271 154.6480 281.784 295.597  689.060 1126.410
## ORI_14605_14585 480.318 373.121  96.1790 198.445 273.762  604.842  668.751
## ORI_14607_14586 607.362 124.675  66.6581 202.756 158.148  771.187 1525.240
## ORI_14609_14587 581.379 276.480  75.7480 184.391 171.634  480.956 1129.920
## ORI_14617_14591 635.763 228.964  54.1216 118.214 177.026  606.215  405.232
## ORI_14623_14594 560.297 316.664 191.7080 230.790 320.645  824.682  535.206
## ORI_14629_14597 412.127 174.003 115.1720 273.696 200.332  697.056  293.648
## ORI_14631_14598 560.581 314.398  84.9829 218.895 208.260  580.064  985.258
## ORI_14633_14599 634.786 435.916 147.4370 239.337 268.455  910.457  941.671
## ORI_14635_14600 712.503 424.005 222.5350 268.488 322.175  700.329  723.131
## ORI_14639_14602 797.367 439.631 191.2970 420.222 294.409 1326.940  959.038
##                  [,1426] [,1427]  [,1428]  [,1429]  [,1430] [,1431]  [,1432]
## ORI_10219_10218 135.9890 369.297 434.3880 198.6140 1030.850 240.565 135.7560
## ORI_10735_10730  52.6061 243.566  76.9223 238.8780 1922.990 320.308 180.7080
## ORI_14605_14585  36.7940 348.700  98.6873 346.2970 1145.720 249.438 164.5700
## ORI_14607_14586 136.6680 272.297 260.6610  77.1311  641.116 474.039 192.2590
## ORI_14609_14587  77.8131 229.396 111.1660 189.5510 1308.590 336.259  99.0210
## ORI_14617_14591 254.3890 219.514 743.8070  76.9817 1064.230 163.379 143.8470
## ORI_14623_14594  29.0994 328.587 424.9310  44.5583  706.152 303.316 137.7100
## ORI_14629_14597  24.6827 261.509 129.3620 542.2650 2761.190 377.062  85.8444
## ORI_14631_14598  48.4562 229.968  84.9925  96.7809 1564.310 397.540  92.4405
## ORI_14633_14599 158.4750 383.691 209.2730  25.3679  876.013 338.053 210.5550
## ORI_14635_14600  65.7520 308.630 287.1840  66.1931  670.971 255.661 167.4510
## ORI_14639_14602 158.6800 265.684 192.8440  88.6269 1404.280 237.323  85.1821
##                  [,1433]   [,1434]  [,1435]  [,1436] [,1437] [,1438] [,1439]
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```
## ORI_10219_10218  306.481   60.8162 1660.750 136.7310 798.053 225.650 2102.40
## ORI_10735_10730  297.230  183.3680 1440.900 264.4960 560.354 582.099 2328.30
## ORI_14605_14585  307.739   68.7971 1181.790 184.7900 810.019 371.783 3190.93
## ORI_14607_14586  217.082  212.8630 1219.350 138.9280 457.721 274.144 2407.19
## ORI_14609_14587  414.048  137.7790 1304.950 209.5720 600.880 262.038 3139.32
## ORI_14617_14591  291.641   40.9766 1285.440 162.9280 620.240 157.330 2796.74
## ORI_14623_14594  319.444   72.1198 1362.260 209.9590 395.165 361.341 3145.04
## ORI_14629_14597  320.536   74.1058 1561.450 139.5300 291.981 323.281 3902.03
## ORI_14631_14598  353.009  177.2790 1827.340 186.1420 421.863 287.747 3083.41
## ORI_14633_14599  171.320   82.4445  898.700 158.9790 454.406 323.054 3585.64
## ORI_14635_14600  183.076   69.4295 1332.650 202.1500 600.177 357.384 2763.24
## ORI_14639_14602  448.416   54.8870 1222.760 149.0960 383.684 436.823 2679.48
##                  [,1440] [,1441]   [,1442] [,1443] [,1444]  [,1445] [,1446]
## ORI_10219_10218  274.334 542.559  669.9400 594.142 215.353  684.180 212.325
## ORI_10735_10730  938.549 431.023  121.5930 220.553 207.965 1022.500 276.533
## ORI_14605_14585  709.395 331.226  134.0900 210.738 333.505 1148.220 277.960
## ORI_14607_14586  702.552 412.658  236.3500 336.410 270.090  884.655 163.575
## ORI_14609_14587  619.800 294.459  229.7570 171.434 361.302 1263.080 309.769
## ORI_14617_14591  494.584 594.498  775.9970 294.854 332.668  729.422 313.396
## ORI_14623_14594  759.401 412.784  404.3130 411.587 325.241  871.725 322.810
## ORI_14629_14597  734.990 335.481   71.7578 353.511 228.248 1319.230 115.143
## ORI_14631_14598 1132.520 445.198   89.4904 303.691 290.635  823.690 324.908
## ORI_14633_14599  884.147 315.708  201.6140 289.584 309.750 1000.100 325.370
## ORI_14635_14600 1084.530 459.053  378.5300 326.101 386.586  768.635 478.575
## ORI_14639_14602 1078.640 381.951  215.4120 405.559 358.697  405.223 351.982
##                 [,1447]  [,1448] [,1449]  [,1450]  [,1451]   [,1452]  [,1453]
## ORI_10219_10218 338.144 151.5620 271.778  819.751  745.957  524.6420  218.552
## ORI_10735_10730 535.885 210.2880 283.442 1140.010  655.469  146.6810  168.602
## ORI_14605_14585 527.359 152.3910 379.681  755.856  768.157  689.2560  221.873
## ORI_14607_14586 519.706 105.0050 208.919 1660.650  548.927  388.7110  486.855
## ORI_14609_14587 447.864 237.2970 324.066 1146.210  986.948  294.2050  192.024
## ORI_14617_14591 348.030  54.6700 184.863  297.083  960.749  246.1730  277.261
## ORI_14623_14594 443.466 233.4360 432.537  303.259  644.236  119.5810  234.045
## ORI_14629_14597 401.208 107.2980 491.009 1102.920  616.936  127.3980  192.356
## ORI_14631_14598 538.215 324.8320 318.452 1488.540  725.453  155.2040  176.201
## ORI_14633_14599 430.808 101.6210 336.137  303.992  914.579  277.7540  302.086
## ORI_14635_14600 382.252 304.8200 448.051  228.325 1072.290  175.5840  209.088
## ORI_14639_14602 484.016 106.1980 337.818  858.714 1144.960  201.3770  158.168
##                  [,1454]  [,1455]   [,1456]  [,1457] [,1458]  [,1459]  [,1460]
## ORI_10219_10218  178.6340 123.7050  400.1070 208.0720 351.494  59.6501 105.2730
## ORI_10735_10730  752.1310 452.2750  656.8820 189.5900 309.027 215.4400 473.5750
## ORI_14605_14585  683.3530 207.9610  779.7510 226.2890 428.314  89.6161 311.4640
## ORI_14607_14586  126.3060 117.1590  379.5210 267.2720 430.815  50.9371 138.9700
## ORI_14609_14587  691.7290 192.2900 1534.5100 254.8630 443.834  54.7654 498.2960
## ORI_14617_14591   90.9180  95.8758  582.5040 332.3060 418.747  35.6492 231.3900
## ORI_14623_14594  600.8650 238.8520  365.1550 225.4210 429.019  82.3285 221.7460
## ORI_14629_14597  561.2050 147.2560  529.4870 334.3950 501.155  68.4218 430.6810
## ORI_14631_14598   81.1149 179.1950  846.9390 261.8340 379.650  70.6962 348.9920
## ORI_14633_14599  759.7890 218.3570  419.3830 175.9130 549.473  87.9945 238.7600
## ORI_14635_14600  812.3900 207.6940  566.8310 270.2830 540.454 124.4410 296.8220
## ORI_14639_14602  638.8960 531.6000  326.8610 269.2190 156.978 305.0060 296.8920
##                  [,1461] [,1462]  [,1463] [,1464]  [,1465]  [,1466]  [,1467]
## ORI_10219_10218  607.256 308.113 126.4270 443.367 286.1950 1658.770 1697.530
## ORI_10735_10730  235.497 156.412 357.9110 447.854 299.2070 1854.510 2273.020
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## ORI_14605_14585  438.558 446.529 189.5460 742.392 533.2220 1547.080 1877.770
## ORI_14607_14586  411.724 520.507 157.0250 430.434 373.7420 3959.130 3438.290
## ORI_14609_14587  228.620 522.532 254.6040 737.045 371.8230 2530.140 3107.560
## ORI_14617_14591  349.318 451.030 335.9110 394.688 101.2870  814.463 1152.590
## ORI_14623_14594  476.850 483.549 257.2010 379.030 100.4020  916.069 1101.410
## ORI_14629_14597  265.329 582.139 123.0230 635.689 162.2620 1643.640 1563.550
## ORI_14631_14598  211.265 402.784 329.0580 361.192 330.9020 2254.070 2848.350
## ORI_14633_14599  493.607 473.411 392.0770 486.917 197.4530 1089.520 1402.950
## ORI_14635_14600  542.615 846.570 328.1990 525.275 206.8630  712.203 1355.570
## ORI_14639_14602  300.409 543.309 208.5880 558.421 187.9590  882.272  884.728
##                 [,1468]  [,1469] [,1470]  [,1471]   [,1472] [,1473] [,1474]
## ORI_10219_10218 181.657  594.006 339.673  497.925 1156.4400 551.463 307.389
## ORI_10735_10730 306.739  791.129 715.767  271.469  674.4650 618.907 341.778
## ORI_14605_14585 282.135  825.201 486.884  359.955  825.1930 579.769 382.179
## ORI_14607_14586 300.761 1464.500 335.120  355.755  534.7050 548.076 309.089
## ORI_14609_14587 430.080  913.038 467.332  278.890  600.6990 520.875 294.678
## ORI_14617_14591 203.687  352.692 446.181  286.076  973.5940 459.747 232.359
## ORI_14623_14594 259.485  236.638 381.494  334.975  562.1880 570.487 400.877
## ORI_14629_14597 302.454  217.298 339.601  380.973 1016.3200 505.073 369.072
## ORI_14631_14598 477.713  848.085 587.679  272.868  444.1710 411.839 326.258
## ORI_14633_14599 312.170  390.780 461.396  389.947  441.7930 772.033 408.699
## ORI_14635_14600 584.817  297.809 432.542  331.852  750.3800 620.685 444.608
## ORI_14639_14602 399.504  123.095 555.421  372.710  522.6950 491.761 383.631
##                 [,1475]   [,1476]  [,1477] [,1478] [,1479]  [,1480] [,1481]
## ORI_10219_10218 400.797   69.5307 1353.890 323.425 309.730 676.9200 326.619
## ORI_10735_10730 384.235  642.1450  546.872 449.835 532.047 503.3130 323.940
## ORI_14605_14585 508.226  578.4490 1147.040 569.950 546.076 605.8510 520.571
## ORI_14607_14586 438.767   49.5933 1065.580 957.583 429.654 322.4790 822.879
## ORI_14609_14587 413.051  195.5250  658.526 478.576 432.841 613.7500 447.775
## ORI_14617_14591 364.248   81.3632 1070.800 167.430 353.019 462.1780 340.944
## ORI_14623_14594 375.288  519.2760 1353.440 219.205 300.325 249.8440 354.593
## ORI_14629_14597 419.973  224.8640  685.792 237.385 280.397 438.7030 372.038
## ORI_14631_14598 368.773  237.0420  670.589 590.426 523.350 724.8540 395.046
## ORI_14633_14599 349.153  292.2580  794.800 249.559 434.658 213.6200 457.067
## ORI_14635_14600 316.055  465.4560  943.122 246.126 496.859 208.9920 457.712
## ORI_14639_14602 269.955  991.5090  593.531 154.758 370.645  80.8182 303.063
##                  [,1482] [,1483] [,1484] [,1485]  [,1486]  [,1487] [,1488]
## ORI_10219_10218  718.815 223.968  49.316 394.445  705.054  624.433 213.380
## ORI_10735_10730  375.089 232.846 253.914 552.807  683.836  908.969 305.794
## ORI_14605_14585  717.004 342.521 210.121 419.066  777.845  998.174 295.507
## ORI_14607_14586  436.713 276.489 300.536 496.520  797.805  650.126 159.519
## ORI_14609_14587  386.350 224.607 353.621 489.037 1103.730 1701.900 447.697
## ORI_14617_14591  546.689 213.025 152.052 487.015  790.564  595.120 135.267
## ORI_14623_14594  847.717 337.239 136.208 444.354  841.234  492.030 198.621
## ORI_14629_14597  658.857 266.599 234.058 323.398  809.915  678.768 358.251
## ORI_14631_14598  523.065 315.314 325.302 425.746  930.415  857.577 286.463
## ORI_14633_14599  363.184 240.876 265.843 389.375  772.492  539.866 258.642
## ORI_14635_14600  278.395 292.999 175.240 404.062  963.784  484.102 253.426
## ORI_14639_14602  702.940 322.689 153.745 479.952  693.689  375.039 302.132
##                  [,1489] [,1490]  [,1491] [,1492] [,1493]  [,1494] [,1495]
## ORI_10219_10218  668.355 5978.30  433.484 133.466 343.363  624.410 545.483
## ORI_10735_10730  556.251 5650.88  659.817 155.862 361.741 1231.220 427.192
## ORI_14605_14585  605.221 6255.34  549.763 171.063 329.743  818.754 514.014
## ORI_14607_14586  592.999 6178.04  820.000 161.320 357.264  887.443 273.135
```

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## ORI_14609_14587  684.338 5554.82  701.183 177.046 310.352  970.079 418.649
## ORI_14617_14591  638.808 5069.93  292.688 199.141 264.022  872.560 315.232
## ORI_14623_14594  485.650 5433.20  541.178 168.699 406.896  737.388 336.181
## ORI_14629_14597  404.632 5620.45  610.334 237.703 345.820  881.747 328.988
## ORI_14631_14598  559.967 5778.94  761.907 230.361 375.100 1561.100 356.281
## ORI_14633_14599  874.580 6611.51  538.600 360.355 399.113 1269.130 277.141
## ORI_14635_14600  839.343 4743.86  542.874 294.430 397.379  979.061 284.948
## ORI_14639_14602  729.401 5051.82  404.788 457.564 375.057  518.584 234.864
##                 [,1496] [,1497]  [,1498] [,1499]  [,1500]  [,1501] [,1502]
## ORI_10219_10218 277.052 264.496 102.4710 273.572 1568.250  63.9454 239.406
## ORI_10735_10730 389.759 384.954 244.6060 402.027 1159.580 205.3410 428.900
## ORI_14605_14585 442.828 217.409 142.7990 569.167 1818.750 119.3310 373.334
## ORI_14607_14586 371.490 155.108 124.6330 483.371 1705.380 142.9380 375.617
## ORI_14609_14587 601.473 307.062 269.4950 629.325 2012.240 283.7840 575.839
## ORI_14617_14591 327.867 155.355 139.8370 319.213 1628.680 104.8490 313.678
## ORI_14623_14594 286.853 228.307  73.0787 285.326 2361.480  97.0749 415.922
## ORI_14629_14597 690.629 164.725 207.1810 517.780 2039.460 135.2020 317.100
## ORI_14631_14598 724.091 337.685 205.2200 479.340 2022.880 190.8900 574.626
## ORI_14633_14599 404.606 194.866 184.1210 533.083 1796.790 196.5340 503.657
## ORI_14635_14600 408.468 211.323 219.3300 291.213 2153.550 157.0960 563.175
## ORI_14639_14602 449.692 240.700 210.3860 128.797 1897.900 179.3420 385.196
##                  [,1503]  [,1504] [,1505] [,1506] [,1507] [,1508] [,1509]
## ORI_10219_10218 1130.140  919.189 180.650 157.912 431.782 254.453 312.839
## ORI_10735_10730  686.147  889.889 217.456 187.122 736.687 468.841 473.043
## ORI_14605_14585  712.877 1086.140 157.156 189.530 522.634 490.463 377.227
## ORI_14607_14586 1085.020  800.546 258.251 160.174 568.375 357.787 368.626
## ORI_14609_14587 1109.500  945.973 218.192 225.572 649.505 497.475 524.497
## ORI_14617_14591 1319.910  689.265 160.306 149.549 559.649 359.977 362.335
## ORI_14623_14594  690.267  680.713 167.389 163.784 450.235 335.984 356.134
## ORI_14629_14597  645.623  772.026 185.518 306.343 587.392 511.884 367.701
## ORI_14631_14598  783.673 1120.820 240.682 201.334 516.592 684.165 398.235
## ORI_14633_14599  822.095  951.353 214.924 178.053 417.112 560.297 503.069
## ORI_14635_14600  812.881 1123.280 241.274 148.245 450.943 405.056 696.180
## ORI_14639_14602  777.287  839.197 281.603 182.412 761.331 261.136 435.558
##                 [,1510]  [,1511]  [,1512] [,1513] [,1514] [,1515] [,1516]
## ORI_10219_10218 424.235 128.0990 476.6390 963.158 409.587 342.763 543.074
## ORI_10735_10730 479.967 167.8990 440.8570 679.562 307.792 530.746 624.945
## ORI_14605_14585 478.962 226.1890 536.2400 906.188 592.189 475.478 671.261
## ORI_14607_14586 401.626 236.8860 180.5000 874.862 298.006 539.405 468.936
## ORI_14609_14587 410.988 287.5430 516.5580 939.037 382.654 552.522 578.717
## ORI_14617_14591 564.666 155.4120 165.4860 825.032 283.421 389.892 492.042
## ORI_14623_14594 588.579 256.4460  78.0485 626.658 717.460 270.846 304.551
## ORI_14629_14597 436.944 187.5290 101.3890 686.732 539.063 546.562 599.268
## ORI_14631_14598 442.076 422.1440 517.3780 838.526 423.727 567.570 516.015
## ORI_14633_14599 650.081 165.8600  24.6827 888.685 500.724 541.170 662.885
## ORI_14635_14600 583.433 377.6650  57.8356 555.744 553.579 389.381 481.054
## ORI_14639_14602 333.486 155.5310  24.6827 467.098 437.455 767.094 508.879
##                 [,1517] [,1518]  [,1519] [,1520] [,1521]  [,1522] [,1523]
## ORI_10219_10218 548.264 454.883  426.380 625.351 258.260  838.177 361.160
## ORI_10735_10730 682.501 386.520  453.473 341.825 254.023  591.897 344.387
## ORI_14605_14585 488.499 285.447  546.745 551.714 241.830  986.012 375.053
## ORI_14607_14586 525.578 371.865  494.642 388.556 210.123  708.301 248.292
## ORI_14609_14587 491.251 351.662  381.574 419.371 359.206  802.274 402.484
## ORI_14617_14591 593.635 502.471  424.603 255.234 184.168 1056.850 351.467
```

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## ORI_14623_14594 373.001 421.926  774.845 440.544 185.482  892.178 243.616
## ORI_14629_14597 300.173 157.094  529.058 448.318 218.117  765.495 299.711
## ORI_14631_14598 693.011 364.147  455.915 319.082 258.479  763.548 384.208
## ORI_14633_14599 690.553 261.182  655.952 479.408 208.708  738.139 384.796
## ORI_14635_14600 399.862 342.301  723.651 456.406 255.809  944.514 437.529
## ORI_14639_14602 678.133 262.060  516.940 436.271 179.731  511.272 248.415
##                  [,1524]   [,1525] [,1526]  [,1527] [,1528] [,1529] [,1530]
## ORI_10219_10218  911.460  575.2430 411.136  70.9835 178.816 341.525 3438.04
## ORI_10735_10730  931.764  455.2010 414.035 154.5810 172.391 370.256 4136.58
## ORI_14605_14585  806.270  286.6670 382.050  84.5322 216.480 539.877 5681.42
## ORI_14607_14586  772.000 1461.8200 371.914  53.0862 218.812 456.155 2824.40
## ORI_14609_14587  989.508  732.3310 411.151  73.0446 166.721 617.574 3914.03
## ORI_14617_14591 1101.250   78.9165 195.632  42.3919 187.959 337.151 2764.31
## ORI_14623_14594  746.301  190.1240 306.380  59.6157 220.445 194.122 3132.74
## ORI_14629_14597  606.643  131.0550 423.089  45.1961 286.378 262.593 3920.92
## ORI_14631_14598  894.850  234.0740 226.062  34.8907 203.693 757.561 4764.48
## ORI_14633_14599 1188.960   74.0161 461.411  70.0152 262.259 308.707 3376.20
## ORI_14635_14600  826.608  218.9680 424.596  83.5554 240.037 220.492 3676.68
## ORI_14639_14602  811.018   46.6090 448.083 274.9660 202.587 274.271 3422.40
##                  [,1531]  [,1532] [,1533]  [,1534] [,1535]  [,1536]  [,1537]
## ORI_10219_10218  422.046 316.6860 277.149  572.269 323.786  734.023 571.8610
## ORI_10735_10730  678.632 264.9650 331.464  644.153 322.513 1029.410  30.5962
## ORI_14605_14585  526.543 199.5430 308.130  608.045 162.489 1111.580  60.0409
## ORI_14607_14586  414.648 281.6000 253.167  727.810 487.890  881.292 282.4540
## ORI_14609_14587  680.424 344.5250 445.332  723.955 274.252 1129.060 167.6070
## ORI_14617_14591  319.826 283.5380 252.456  559.631 282.496  985.980 826.9110
## ORI_14623_14594  316.804 131.7830 346.828  536.689 245.778 1716.230 553.8700
## ORI_14629_14597  588.827 146.7870 431.215  594.764 286.459 1543.190  90.1875
## ORI_14631_14598  654.488 228.7620 399.168  839.655 176.398 1203.570  52.5773
## ORI_14633_14599  541.923 258.2350 354.654  747.020 225.771 1333.860 103.2330
## ORI_14635_14600  535.076 124.3430 374.292  748.936 194.993 2202.750 243.0650
## ORI_14639_14602  635.062 100.2140 333.483  647.929 154.656 1105.860  64.9250
##                 [,1538]  [,1539] [,1540]   [,1541]   [,1542]  [,1543]   [,1544]
## ORI_10219_10218 377.394  441.766 312.068 1472.1600  727.5710  682.263  338.1600
## ORI_10735_10730 564.273  433.406 540.828   24.6827   59.1805  599.674 2282.9900
## ORI_14605_14585 364.038  714.316 462.821   37.0855  111.7300  530.249  681.0880
## ORI_14607_14586 332.238  836.307 558.464  298.6480  218.5980  776.364 2279.8700
## ORI_14609_14587 580.610  995.565 529.176  208.3610  154.6800  736.387 6196.8000
## ORI_14617_14591 421.715  526.152 304.154 1425.6500  664.7360  720.699  118.3800
## ORI_14623_14594 404.608  774.474 334.688  440.5500  365.4300  563.373  175.5030
## ORI_14629_14597 391.312  700.356 460.927   70.2760  147.2820  693.201 6492.1600
## ORI_14631_14598 469.363  623.078 494.800  167.4850  152.8880  508.464 5114.6700
## ORI_14633_14599 581.318 1011.320 416.552  269.3110  379.8510  604.434  420.3860
## ORI_14635_14600 634.035  424.120 428.986  529.5880  402.4930  702.476   65.8916
## ORI_14639_14602 586.883  670.453 427.913  371.8680  240.3610 1536.550 1707.9400
##                  [,1545]  [,1546] [,1547] [,1548]   [,1549]  [,1550]  [,1551]
## ORI_10219_10218  861.6340  229.585 419.674 446.252  767.3910  613.754 4112.580
## ORI_10735_10730  898.8380  452.299 296.589 601.159  817.2960 1248.310  721.099
## ORI_14605_14585  958.3770  260.091 605.317 560.950  191.5350  824.132  716.715
## ORI_14607_14586 2081.0100  388.205 365.568 519.194  453.3200  775.075 2508.840
## ORI_14609_14587 2408.8900  448.197 512.230 528.976 1063.1100  690.884 1538.190
## ORI_14617_14591  128.8630  231.332 521.262 408.237  862.6280  541.159 3959.050
## ORI_14623_14594  191.6200  253.120 555.405 409.485  397.5190  693.613 2645.930
## ORI_14629_14597  323.6460  259.082 778.474 372.397 1753.8400  632.779 1112.920
```

```
## ORI_14631_14598  992.4030  453.858 442.290 616.516 1347.3500  527.124 1584.370
## ORI_14633_14599 1173.4900  282.344 439.611 332.947  232.9900 1028.900 1645.480
## ORI_14635_14600  239.3070  300.881 447.877 408.505  228.7780  562.221 1972.380
## ORI_14639_14602  704.3540  337.906 330.337 495.020  574.9680  532.972  797.594
##                  [,1552] [,1553]  [,1554]  [,1555]  [,1556] [,1557]  [,1558]
## ORI_10219_10218 143.1170 348.112 1664.630  313.864 1065.310 233.927 237.6340
## ORI_10735_10730 342.5540 312.095 1184.190  615.171 1051.290 153.206  99.1915
## ORI_14605_14585 144.7150 346.786 1415.160  499.779 1073.690 164.270 126.2920
## ORI_14607_14586 135.1520 357.624 1264.400  612.089  937.866 227.660 266.9120
## ORI_14609_14587 123.5380 460.960 1601.080  479.108 1447.910 162.803 176.2030
## ORI_14617_14591  63.3428 296.410 1443.970  346.749 1063.040 203.012 590.4690
## ORI_14623_14594 205.0650 243.494 1285.080  355.183  735.427 265.290 200.1430
## ORI_14629_14597 219.1310 313.048 1274.300  814.940  832.275 270.142 135.9180
## ORI_14631_14598 146.9130 350.841 1501.610  559.535 1508.150 178.486 732.2100
## ORI_14633_14599 153.0200 475.771 1205.180  444.184  982.564 164.069 104.5130
## ORI_14635_14600 182.0810 466.119 1455.210  275.783  743.173 189.962  97.6514
## ORI_14639_14602 173.7670 368.203 1009.520  450.161  677.997 201.656 733.8010
##                   [,1559]   [,1560] [,1561]  [,1562]  [,1563] [,1564]  [,1565]
## ORI_10219_10218  799.1090   48.7513 612.639 160.3670  31.0142 430.185 1381.960
## ORI_10735_10730  243.1400   82.4902 579.775 184.1700  24.6827 204.591  460.467
## ORI_14605_14585   84.3654  132.6590 647.951 148.0310  84.0283 359.043  532.893
## ORI_14607_14586  270.6580   37.7421 468.667 128.8390 257.2160 318.070  757.967
## ORI_14609_14587  166.4830  158.1140 885.390 145.1250 239.9380 439.059  432.759
## ORI_14617_14591  698.0070   42.7256 528.626  68.3596 139.9930 213.009 1438.720
## ORI_14623_14594  420.0560   54.0967 538.196 157.6220 109.8820 272.041 1047.010
## ORI_14629_14597 1328.9800   73.1266 750.450 269.6380 270.0400 367.991  466.345
## ORI_14631_14598  156.8960   41.9993 574.109 158.8250 158.2880 293.587  498.033
## ORI_14633_14599  102.7440   59.4833 609.176 128.9570 261.9460 311.874  548.695
## ORI_14635_14600  113.8150   65.9840 479.934 147.3030 238.8240 230.643  642.785
## ORI_14639_14602  276.6060   49.8560 422.588 181.0230  24.6827 197.709  474.899
##                 [,1566] [,1567]  [,1568] [,1569]  [,1570]  [,1571]  [,1572]
## ORI_10219_10218 364.573 160.886  389.966 655.242  149.771  381.429  72.3939
## ORI_10735_10730 386.206 375.646  687.905 722.821  266.838  748.252 223.8320
## ORI_14605_14585 378.581 161.453  285.299 514.013  251.148  728.758 129.1280
## ORI_14607_14586 276.551 231.658  485.874 476.576  104.324 1092.700 188.2040
## ORI_14609_14587 331.448 227.601  458.205 345.471  581.853 1104.320 122.2820
## ORI_14617_14591 394.771 113.201  300.681 410.620  174.212  456.105 121.3810
## ORI_14623_14594 290.177 199.018  249.060 424.202  168.055  291.548  75.0513
## ORI_14629_14597 482.730 379.078  939.367 474.273  158.515  895.973 458.3670
## ORI_14631_14598 405.679 350.572  529.577 346.092  261.881 1696.510 253.5870
## ORI_14633_14599 413.033 212.609  328.438 513.443  194.697  585.392 140.2570
## ORI_14635_14600 329.763 146.773  274.692 463.968  234.379  329.242  33.4379
## ORI_14639_14602 278.789 250.273  232.250 534.186  148.052 1144.770 175.2250
##                  [,1573] [,1574]  [,1575] [,1576]  [,1577] [,1578]  [,1579]
## ORI_10219_10218  298.702 337.514  856.559 176.610 1005.620 327.361 118.1180
## ORI_10735_10730  603.625 447.490  955.082 207.943 1047.470 256.289 190.4230
## ORI_14605_14585  344.584 432.607 1002.260 304.314  863.750 333.751 278.9190
## ORI_14607_14586  613.693 395.288 1165.510 187.893  758.979 339.859 142.9030
## ORI_14609_14587  640.834 451.036 1169.610 247.510  665.634 377.625 327.9850
## ORI_14617_14591  267.901 357.730  770.353 113.241  731.650 129.895 104.3210
## ORI_14623_14594  376.538 303.310  682.432 368.462  961.548 277.866 152.4340
## ORI_14629_14597  486.254 462.102  817.323 392.008  710.273 224.698  91.9570
## ORI_14631_14598  482.973 390.488 1161.910 271.155  655.841 292.186 101.9400
## ORI_14633_14599  354.282 421.666  726.719 358.546  723.642 318.176 131.7900
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## ORI_14635_14600  355.148 563.969  721.983 203.345  811.683 299.477 139.5010
## ORI_14639_14602  378.968 297.182  574.804 384.324  737.872 174.992 117.1030
##                 [,1580] [,1581]  [,1582]   [,1583]  [,1584] [,1585]  [,1586]
## ORI_10219_10218 305.652 2990.16 1284.460   90.9529 254.0370 209.446 2052.490
## ORI_10735_10730 415.489 2630.75  866.153  839.8010 452.7000 291.163 2243.600
## ORI_14605_14585 282.933 2604.98  581.925   46.3227 206.1470 259.690 2128.390
## ORI_14607_14586 264.837 2547.45  661.634   24.6827 426.6480 332.817 1516.710
## ORI_14609_14587 356.503 3263.74  563.627   87.5983 456.0590 315.540 1817.120
## ORI_14617_14591 239.214 2892.96  906.656  121.6420 263.4830 408.758 1804.480
## ORI_14623_14594 169.836 2691.14  916.196   73.3860 138.9650 165.116 1423.180
## ORI_14629_14597 286.052 2694.23  310.101  439.1610  67.3549 252.296  908.660
## ORI_14631_14598 273.090 2184.88  624.600  338.7420 461.5630 245.474 1334.130
## ORI_14633_14599 327.425 3156.97  541.783  627.0100 141.5660 335.647 2035.060
## ORI_14635_14600 204.294 2240.09  426.745   95.3535 310.8620 343.842 1379.200
## ORI_14639_14602 331.876 3213.80  564.038  541.8750  57.2213 349.014 2050.900
##                 [,1587]  [,1588]  [,1589] [,1590] [,1591]  [,1592]   [,1593]
## ORI_10219_10218 236.222  471.660 3215.370 242.623 275.627  679.120  539.5040
## ORI_10735_10730 362.602  896.816 2587.950 325.440 278.756 1184.410   29.3671
## ORI_14605_14585 310.408  702.512 3062.950 282.400 422.482 1094.820   65.6715
## ORI_14607_14586 165.434 1065.000 1452.940 627.345 586.703 1996.540  187.4940
## ORI_14609_14587 367.527 1099.930 2648.050 409.290 463.979 1794.720   87.7277
## ORI_14617_14591 251.719  707.620 2379.680 391.128 211.840  723.592  496.8630
## ORI_14623_14594 275.742  620.184 2501.920 385.054 347.704  731.682  182.6010
## ORI_14629_14597 231.418 1187.200 2805.040 364.228 327.810  749.460   55.1752
## ORI_14631_14598 354.072 1406.790 2216.140 305.010 379.090 1508.730   75.8237
## ORI_14633_14599 299.413  570.352 2770.700 300.106 323.499 1096.020  140.1820
## ORI_14635_14600 378.633  667.022 2441.500 366.926 245.296 1405.590  190.0240
## ORI_14639_14602 608.448  911.172 2572.880 377.751 332.837  981.859  132.1840
##                 [,1594]   [,1595]  [,1596]  [,1597]   [,1598]  [,1599] [,1600]
## ORI_10219_10218 146.789   79.9743  71.3688  439.034 1034.8600  514.744 409.805
## ORI_10735_10730 539.372  510.9630 213.7760  482.821 1022.5800  652.214 315.584
## ORI_14605_14585 341.785  258.0570 150.5600  391.155 1021.9500  522.112 397.860
## ORI_14607_14586 201.011   95.7092 225.4390  389.767  579.6480  345.492 291.618
## ORI_14609_14587 365.183  258.0070 265.3400  594.761  705.2410  478.265 373.395
## ORI_14617_14591 168.328   72.1202  80.1388  778.890  937.0740  470.223 506.601
## ORI_14623_14594 281.735  317.6350  81.9080  534.228  992.1840  460.478 347.991
## ORI_14629_14597 305.178  197.1410  95.6049 1172.310  359.2610  651.073 334.387
## ORI_14631_14598 366.940  356.7710 215.2610  421.886  616.9580  768.679 304.608
## ORI_14633_14599 226.154  198.7010  87.7074  799.334 1221.8400  676.908 293.511
## ORI_14635_14600 276.353  580.6250 112.7290  589.670 1357.8200  619.759 361.452
## ORI_14639_14602 391.922  710.1800 149.7480  575.480  845.4230  361.213 134.702
##                 [,1601]  [,1602] [,1603]  [,1604]  [,1605]   [,1606] [,1607]
## ORI_10219_10218 410.743  831.921 132.586  691.452 181.3380  605.6170 428.077
## ORI_10735_10730 580.070  348.374 190.517  664.243 217.8830  811.7200 363.168
## ORI_14605_14585 589.749  494.040 418.036  767.629 251.3470  535.4190 380.343
## ORI_14607_14586 473.889  761.133 213.488  629.667 205.0710  524.9450 411.613
## ORI_14609_14587 498.599  409.949 200.731  465.548  97.1354  438.4020 323.550
## ORI_14617_14591 357.539  715.708 219.318  358.952 106.1210  597.1790 312.344
## ORI_14623_14594 502.113  881.103 492.691  702.063 286.0820  830.1180 474.738
## ORI_14629_14597 774.029  630.940 313.909  637.233 294.0640  673.9250 418.711
## ORI_14631_14598 441.994  711.441 379.320  580.887 196.5900  802.4060 453.858
## ORI_14633_14599 632.076  487.654 269.747  713.428 235.5710  789.0940 465.656
## ORI_14635_14600 538.634  518.872 370.463  662.010 219.3130  382.6190 467.806
## ORI_14639_14602 483.257  489.928 311.639  624.500 268.2850  299.2360 495.776
```

```
##                   [,1608]   [,1609]  [,1610]  [,1611]  [,1612]  [,1613]
## ORI_10219_10218  498.0570   73.2014  24.6827  71.6034  307.731  24.6827
## ORI_10735_10730  505.1430  195.8320 280.8700  30.9052 1776.960  85.8620
## ORI_14605_14585  288.7460  156.4140  24.6827  40.0538  812.294  41.4617
## ORI_14607_14586  990.2630  805.0510 211.7740  24.6827 2232.970 248.7850
## ORI_14609_14587  903.5900  511.6890 391.6980  57.4011 1619.130 108.8630
## ORI_14617_14591  176.0290  105.4220  24.6827  43.3389  290.787  24.6827
## ORI_14623_14594  196.2430  111.1730  31.4631  24.6827  351.935  46.1900
## ORI_14629_14597  159.9130  819.6500 183.6720  24.6827 1064.560 142.1850
## ORI_14631_14598  644.6460  294.0480 172.4690  24.6827 1849.920  48.8122
## ORI_14633_14599  247.3830  170.6840  25.7942  34.4648  387.732  69.9439
## ORI_14635_14600  160.9560  150.1150  24.6827  34.1789  342.370  40.6237
## ORI_14639_14602  110.0780   83.8753  24.6827 123.1190  782.159  24.6827
##                  [,1614]  [,1615] [,1616]  [,1617]  [,1618]  [,1619] [,1620]
## ORI_10219_10218 1081.910 1923.830 215.466  543.550 243.0300 1422.470 266.168
## ORI_10735_10730 1669.710  881.513 381.974  865.086 122.5110 1542.880 310.283
## ORI_14605_14585 1634.590  887.773 379.615  705.788 348.9250 1789.080 365.979
## ORI_14607_14586 1988.520  970.987 297.806  990.454 245.6530 2100.930 463.580
## ORI_14609_14587 2042.020  972.315 614.749  832.124 166.7800 1953.730 335.778
## ORI_14617_14591  996.536 1613.060 249.241  611.984 169.2510 1099.430 260.627
## ORI_14623_14594 1140.480 1515.890 287.749  819.919 183.2470  741.045 258.319
## ORI_14629_14597  912.954  496.583 397.253 1061.130 213.1570 3519.580 442.881
## ORI_14631_14598 1606.830  907.701 427.775  730.967 147.6390 1807.460 348.520
## ORI_14633_14599 1766.080 1643.850 364.863  838.114 111.2370 1536.380 397.978
## ORI_14635_14600 1206.370 1238.620 445.320  908.551 197.0830  808.191 349.219
## ORI_14639_14602  683.632 1573.510 293.100  629.133  95.7191  814.221 346.653
##                 [,1621]  [,1622] [,1623] [,1624]  [,1625] [,1626]  [,1627]
## ORI_10219_10218 331.196  499.060 272.148 226.930  892.160 239.341 141.7510
## ORI_10735_10730 294.953  577.080 326.088 560.490 1060.890 311.420 280.6440
## ORI_14605_14585 325.727  746.321 336.688 369.627  687.248 297.243 162.5880
## ORI_14607_14586 395.262  619.905 396.283 411.473  644.218 197.406 183.2680
## ORI_14609_14587 402.328  915.959 557.799 386.348  582.220 409.955 138.5750
## ORI_14617_14591 236.831  808.219 547.037 341.171  775.638 396.521  66.2352
## ORI_14623_14594 277.448  726.159 401.953 239.403  636.452 167.927 154.7560
## ORI_14629_14597 334.057  700.217 318.782 357.336  490.104 287.467 123.2700
## ORI_14631_14598 418.393 1093.150 365.475 360.528  759.070 286.253 183.7060
## ORI_14633_14599 327.882 1273.620 408.222 310.680  618.641 366.693 174.9070
## ORI_14635_14600 256.204 1382.190 408.200 283.492  516.514 449.381 119.3820
## ORI_14639_14602 222.840  651.057 407.056 531.519  487.180 213.795 140.2620
##                  [,1628] [,1629]  [,1630] [,1631]  [,1632] [,1633] [,1634]
## ORI_10219_10218 2417.570 464.565 174.3670 2695.29 1079.420 3002.82 7226.08
## ORI_10735_10730  995.654 567.790 186.7200 2478.09  655.304 2971.91 6326.16
## ORI_14605_14585 1220.250 449.713  56.9911 2571.91  611.206 2839.89 6489.71
## ORI_14607_14586 1453.590 277.846 161.2280 3027.87  866.118 3299.41 6686.19
## ORI_14609_14587 1381.970 389.730 115.0730 2272.21  634.861 3309.32 6825.14
## ORI_14617_14591 2715.540 358.142 257.4480 2778.25  850.639 3312.71 4887.87
## ORI_14623_14594 1626.390 689.523 251.5930 2780.58  611.047 2624.08 4882.85
## ORI_14629_14597 1492.350 440.860 172.0610 2565.16  460.327 3676.12 5908.20
## ORI_14631_14598 1280.760 443.068 112.1390 2303.43  571.954 3470.24 6635.37
## ORI_14633_14599 1195.160 472.618 130.4530 2950.04  515.258 3512.18 6203.00
## ORI_14635_14600 1316.090 557.723 176.5060 2287.71  471.732 2880.03 3697.11
## ORI_14639_14602  876.784 471.714 110.8130 2410.39  406.059 3382.09 3348.89
##                   [,1635] [,1636]  [,1637]  [,1638]  [,1639] [,1640]  [,1641]
## ORI_10219_10218  144.8420 299.457 119.2230 1116.810  24.6827 582.415 271.3270
```

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## ORI_10735_10730  494.4900 429.407 208.4880  982.521 140.8850 662.860 116.4760
## ORI_14605_14585  308.5870 350.348 239.9030 1433.990  24.6827 501.312 133.8460
## ORI_14607_14586  584.2290 470.668 139.5650 1149.540  24.6827 634.895 162.6200
## ORI_14609_14587  841.0580 384.453 180.0620  856.361 383.6030 839.165 103.1550
## ORI_14617_14591  307.8360 189.174  95.7903 1097.120  24.6827 720.000 363.1140
## ORI_14623_14594  329.7460 317.862 457.3900  745.565  24.6827 313.100 249.9490
## ORI_14629_14597  135.8660 297.617 255.4760  999.798  97.8529 577.825 118.6930
## ORI_14631_14598  623.3190 341.215 144.0940 1270.300 199.7510 614.098 101.7310
## ORI_14633_14599  361.9690 332.301 199.4380  837.918  28.8134 641.199 145.1830
## ORI_14635_14600  231.9180 323.345 664.0760  673.715  24.6827 519.323 230.7140
## ORI_14639_14602  218.3080 214.066 302.3760  541.928  24.6827 867.440 151.0770
##                 [,1642]  [,1643] [,1644]  [,1645]  [,1646] [,1647]  [,1648]
## ORI_10219_10218 369.874  442.015 511.365  492.407 149.0250 281.171  805.703
## ORI_10735_10730 242.461 1417.180 260.075  687.312 338.1070 345.482 1187.900
## ORI_14605_14585 332.483  613.196 314.265  531.324 120.8140 260.853 1071.990
## ORI_14607_14586 596.263  749.140 159.199  427.651 106.0950 192.498 1075.200
## ORI_14609_14587 280.183 1686.020 298.353  708.394 106.3240 423.803 1183.120
## ORI_14617_14591 195.860  768.666 241.775  547.168  73.9421 273.397 1032.100
## ORI_14623_14594 376.045  668.238 466.385  343.520  96.2555 143.507  893.387
## ORI_14629_14597 380.836 1135.300 486.486  580.117  82.2151 264.818  774.144
## ORI_14631_14598 391.459 1281.820 467.475  829.889 104.9460 427.191 1102.820
## ORI_14633_14599 431.511 1579.420 251.844  602.858  88.1917 248.696  590.897
## ORI_14635_14600 308.821 1121.680 269.979  511.579 112.9290 193.509  938.376
## ORI_14639_14602 274.050  677.488 266.268  568.297 116.9790 261.901  704.800
##                 [,1649]  [,1650] [,1651]  [,1652]  [,1653] [,1654]  [,1655]
## ORI_10219_10218 431.643 4560.560 424.177 165.7830  357.707 640.750  791.025
## ORI_10735_10730 550.596 1462.540 394.819 215.4240  383.139 161.248  658.461
## ORI_14605_14585 341.652 4347.680 414.879 137.3680  379.176 644.438  511.108
## ORI_14607_14586 601.770 1529.350 360.332 110.1080  364.051 283.553  632.035
## ORI_14609_14587 438.189 2181.720 235.693  93.7056  338.117 264.631  622.203
## ORI_14617_14591 410.131 2383.970 313.588  42.4092  235.783 296.459  726.908
## ORI_14623_14594 294.834 2112.590 549.803 159.8010  337.965 388.301  510.593
## ORI_14629_14597 240.160 1886.180 462.748 138.7180  347.201 327.620  425.505
## ORI_14631_14598 406.252 1590.250 364.315 105.6550  440.701 229.212  491.037
## ORI_14633_14599 522.432 1306.950 326.815 163.9020 1002.530 224.332  562.176
## ORI_14635_14600 556.639 2212.160 422.825 108.5220  451.112 347.626  557.956
## ORI_14639_14602 451.889 1060.620 531.516 126.9870  427.562 287.143  368.682
##                 [,1656] [,1657]   [,1658] [,1659] [,1660] [,1661] [,1662]
## ORI_10219_10218 503.556 365.776 1090.5300 244.788 419.755 331.224 481.236
## ORI_10735_10730 164.098 344.998 1135.7900 415.449 748.448 422.482 429.493
## ORI_14605_14585 185.507 363.198 1242.5100 288.698 394.982 464.620 470.454
## ORI_14607_14586 281.646 532.766  278.0630 414.914 360.758 402.634 297.097
## ORI_14609_14587 145.284 358.043  773.4280 456.059 420.579 580.620 544.534
## ORI_14617_14591 596.623 379.997 1010.1900 329.343 476.054 444.633 482.394
## ORI_14623_14594 303.789 293.384  503.7440 377.522 402.716 383.095 349.259
## ORI_14629_14597 201.564 470.502  564.3120 300.656 381.913 466.941 384.471
## ORI_14631_14598 189.413 432.790  927.6880 455.469 375.433 455.146 550.936
## ORI_14633_14599 217.701 400.960  175.7450 382.386 430.137 537.109 577.340
## ORI_14635_14600 285.499 388.357  430.7840 265.048 489.995 483.282 472.232
## ORI_14639_14602 242.759 236.082  259.7400 313.813 612.495 406.530 370.687
##                  [,1663] [,1664] [,1665]  [,1666]   [,1667]   [,1668]  [,1669]
## ORI_10219_10218  341.705 181.235 267.622 1024.680  300.4740   26.8231 332.4200
## ORI_10735_10730  611.092 368.884 550.129  511.620  680.9150   85.6611 565.3740
## ORI_14605_14585  391.544 277.935 234.596  633.991  371.0280   96.8837 473.0790
```

```
## ORI_14607_14586  386.185 215.326 326.228  540.635 1620.5500  654.7230 461.6310
## ORI_14609_14587  569.275 360.057 394.357  371.792   78.9187   88.8424 817.7620
## ORI_14617_14591  353.817 315.468 281.554  340.283  452.0460   24.6827 342.8590
## ORI_14623_14594  443.385 220.044 289.956 1168.970  221.2950   24.6827 192.5990
## ORI_14629_14597  594.460 172.049 340.245  709.105   24.6827   39.3258 800.7650
## ORI_14631_14598  461.282 278.802 371.873  575.621  497.9410   89.8914 631.1770
## ORI_14633_14599  547.340 352.368 351.867  925.032  265.4490   63.0514 320.3900
## ORI_14635_14600  537.240 325.485 334.572  915.231  224.9000   24.6827 135.6170
## ORI_14639_14602  487.732 253.169 576.378  557.204  319.7730  294.2620 222.1130
##                  [,1670]   [,1671]   [,1672]  [,1673]   [,1674]  [,1675]
## ORI_10219_10218  292.615   24.6827   218.860 177.1800   24.6827  177.374
## ORI_10735_10730  955.500 1217.5500  1235.490  32.7489 1204.5100 1944.910
## ORI_14605_14585  666.570 2921.7300  2050.470 339.3260 2714.3100  505.280
## ORI_14607_14586 1234.340 5158.4100  5794.440 119.3500 5837.6000 1956.490
## ORI_14609_14587  473.320 1308.2000  1189.920 320.5220  894.5470 1052.930
## ORI_14617_14591  165.690   69.0551   203.699  93.7979   86.2868  256.055
## ORI_14623_14594  299.203  184.7320   348.474  75.1718   82.6256  234.967
## ORI_14629_14597  662.729  640.1610   494.878  50.3295  584.0900 1615.260
## ORI_14631_14598  653.433 3119.9100  2780.250  62.0508 3309.4600 1973.990
## ORI_14633_14599  297.414  182.4010   303.492  58.1092  151.8050  464.313
## ORI_14635_14600  273.016  176.4640   231.852  41.6694  133.7940  600.231
## ORI_14639_14602  567.871 1409.3800   978.567  58.8543  833.7440 1564.310
##                  [,1676] [,1677] [,1678]  [,1679]   [,1680]  [,1681]  [,1682]
## ORI_10219_10218  139.046 387.561 461.322  454.850   84.2581  368.843  387.037
## ORI_10735_10730 2343.450 217.367 312.350  279.586  457.5030 1141.300  750.932
## ORI_14605_14585  530.905 262.097 390.801 1071.060  205.4810  525.869  580.241
## ORI_14607_14586 2354.290 439.310 285.127  449.269 1013.6600 1631.740  779.816
## ORI_14609_14587 1213.220 316.631 241.522  605.324  190.2860  536.736 1370.210
## ORI_14617_14591  320.636 388.290 227.212  495.826   60.6489  439.783  782.380
## ORI_14623_14594  186.039 231.609 360.671  399.605   51.3039  130.977  673.624
## ORI_14629_14597 1828.030 352.390 428.078 1082.940  273.1060  259.383 1222.110
## ORI_14631_14598 1913.060 361.417 333.231  359.470  503.0700  901.910  901.013
## ORI_14633_14599  448.214 247.625 406.301  174.404   67.7157  242.798  286.233
## ORI_14635_14600  468.212 241.228 440.621  629.128   45.9906  205.708  275.950
## ORI_14639_14602 1584.400 205.417 470.565  152.220  305.8070  509.247  300.284
##                   [,1683]   [,1684]   [,1685]  [,1686]   [,1687]   [,1688]
## ORI_10219_10218   24.6827   38.5459   24.6827 133.9670   98.1077   75.9381
## ORI_10735_10730  242.8670  504.4170  375.7230 181.2650  157.4630  155.2900
## ORI_14605_14585   45.6678  262.2200  451.6880 222.1360  216.4170   42.1714
## ORI_14607_14586  241.3860 1684.1700 2805.9000 174.6480  211.6570   46.3562
## ORI_14609_14587   41.8486  388.7660  402.1370 164.7320  343.0900   53.2918
## ORI_14617_14591   75.8771   31.9820   24.6827 191.7000   38.8807   30.3931
## ORI_14623_14594   34.1228   43.9065   46.8187 226.1280   73.0647   54.6074
## ORI_14629_14597   88.0277  622.7670   87.1944 323.6250  101.0060  140.4780
## ORI_14631_14598   58.5744 1061.0600  953.0470 222.4330  434.8630   74.1656
## ORI_14633_14599   55.2376   30.7389   24.6827 230.0520   58.3646   37.9614
## ORI_14635_14600   65.7237   24.6827   24.6827 225.0550   55.9482   50.6640
## ORI_14639_14602   78.2069  449.1920  178.1660 191.8860   34.0397 1068.6900
##                  [,1689]   [,1690]   [,1691] [,1692] [,1693] [,1694] [,1695]
## ORI_10219_10218 484.2620  706.7380  189.4210 136.269 525.713 361.760 314.110
## ORI_10735_10730 290.7760  607.4950  393.8480 299.823 653.117 528.925 316.545
## ORI_14605_14585 372.6030  865.5050  880.3370 155.172 566.100 678.246 340.613
## ORI_14607_14586 138.1240  581.7900 1578.9700 202.234 715.320 689.902 329.444
## ORI_14609_14587 269.4360  283.5130  293.5950 336.040 576.512 572.890 468.371
```

```
## ORI_14617_14591 151.5020  262.2090  152.3240 166.097 483.983 459.516 245.938
## ORI_14623_14594 250.1380  340.2890  364.1170 132.937 462.746 461.104 211.082
## ORI_14629_14597 162.9140 1358.8100  143.6040 296.893 402.983 640.880 239.164
## ORI_14631_14598 175.3990  324.3350  458.8430 220.863 401.043 649.195 373.944
## ORI_14633_14599 134.0560   86.5552  248.6550 303.848 576.143 420.247 278.944
## ORI_14635_14600 225.8500  265.6330  281.5290 257.803 527.957 478.827 256.367
## ORI_14639_14602 247.7430 1700.7900  189.3690 180.766 336.444 507.939 198.167
##                 [,1696]  [,1697]  [,1698]  [,1699]  [,1700]  [,1701]   [,1702]
## ORI_10219_10218 363.628 1134.730  916.589  872.160  489.315  581.934  582.5150
## ORI_10735_10730 395.006 1839.740 1019.010  962.107  933.766 1106.700  846.0170
## ORI_14605_14585 397.558 1647.320  984.197 1209.900  732.075  842.306  655.0970
## ORI_14607_14586 516.281 1738.650 1119.350 1385.220  706.113  895.402 1616.4400
## ORI_14609_14587 502.363 1473.610 1234.610 1589.680  902.793 1053.110  588.1370
## ORI_14617_14591 356.535 1233.470  706.430  912.407  539.545  727.175  279.7920
## ORI_14623_14594 162.092  900.053  684.819  896.822  543.911  660.497  369.6880
## ORI_14629_14597 585.938 1190.350  743.676 1134.030  952.735  791.753  317.3410
## ORI_14631_14598 572.544 1450.240  984.425 1537.400  778.081  959.223  619.5270
## ORI_14633_14599 351.596 1287.680 1181.380 1150.510  798.780 1066.070  323.4270
## ORI_14635_14600 200.670  872.871 1000.310  981.423  619.042  812.440  351.8900
## ORI_14639_14602 165.538 1169.020  767.179 1014.160  787.837  787.448  511.0940
##                 [,1703]  [,1704]  [,1705] [,1706]  [,1707]  [,1708]  [,1709]
## ORI_10219_10218 454.360  546.231  622.050 740.455 1055.010  638.215 1068.890
## ORI_10735_10730 525.353  645.068  577.443 765.405 1407.120  578.893  865.800
## ORI_14605_14585 425.631  480.734  491.704 734.622 1974.090  525.364  975.699
## ORI_14607_14586 488.256  423.595  489.731 517.517  845.503  638.959  750.013
## ORI_14609_14587 429.256  519.201  659.600 729.883 1461.440  540.365  739.383
## ORI_14617_14591 442.345  535.367  642.520 587.469  957.455  535.179 1010.540
## ORI_14623_14594 308.243  339.464  456.830 526.782  891.680  746.218  734.070
## ORI_14629_14597 381.472  283.853  474.129 530.728 1301.570  788.029  813.348
## ORI_14631_14598 529.305  533.076  668.873 869.525 1433.640  628.812 1220.470
## ORI_14633_14599 395.868  467.164  375.693 713.573 1294.070  603.760 1079.650
## ORI_14635_14600 333.692  400.132  464.407 687.789 1128.290  703.839  999.584
## ORI_14639_14602 544.521  370.224  505.233 581.336 1294.550  422.595  622.535
##                  [,1710]  [,1711] [,1712]  [,1713]  [,1714]  [,1715]  [,1716]
## ORI_10219_10218  403.715 114.3480 343.423 238.9720  417.122  393.669  684.746
## ORI_10735_10730  658.685 154.7230 434.065 371.7920  599.799 1359.110  732.164
## ORI_14605_14585  620.395 270.4780 402.465 339.1030  642.693 1237.570  959.321
## ORI_14607_14586  561.718 494.5790 365.541 722.1030  752.174 1157.210  307.532
## ORI_14609_14587  574.161 360.5600 541.086 430.1240  686.989  957.731  679.901
## ORI_14617_14591  480.878  60.3821 394.376 252.0780  349.355 1077.810  722.462
## ORI_14623_14594  335.675  92.5404 287.259 180.9770  370.698 1062.310  488.331
## ORI_14629_14597  584.206 188.8660 379.257 215.5870  489.687 1055.270  960.104
## ORI_14631_14598  770.840 348.8720 431.581 277.2790  680.568  775.094  779.749
## ORI_14633_14599  567.113 112.8640 390.501 288.5520  539.282 1050.290  362.863
## ORI_14635_14600  411.508 125.3680 306.733 138.6770  495.490 1255.360  369.671
## ORI_14639_14602  569.467  86.5658 413.931 158.1670  431.947  791.368  390.166
##                 [,1717] [,1718]  [,1719] [,1720] [,1721]  [,1722]  [,1723]
## ORI_10219_10218 683.233 385.206  452.340 4467.67 340.772 1477.430 2127.880
## ORI_10735_10730 394.018 219.895  735.385 3445.80 270.981  935.738 1310.240
## ORI_14605_14585 444.939 366.332  744.422 3793.37 433.270 1102.780 1901.670
## ORI_14607_14586 360.987 351.361  701.349 3777.64 478.056 1187.710 1631.200
## ORI_14609_14587 780.503 374.989  754.527 3528.63 499.663 1274.950 1814.230
## ORI_14617_14591 359.644 319.356  415.654 3994.45 302.770 1509.100 2150.420
## ORI_14623_14594 467.555 374.153  363.304 3809.53 251.076 1046.910 1804.080
```

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## ORI_14629_14597 573.412 372.992  541.215 2657.28 370.750 1017.030 1617.560
## ORI_14631_14598 627.701 339.697  653.270 3582.63 461.246 1474.360 2139.190
## ORI_14633_14599 436.117 421.959  451.053 3806.92 364.899 1443.780 1919.420
## ORI_14635_14600 411.435 332.602  431.303 3397.34 307.285 1090.930 1777.830
## ORI_14639_14602 388.403 195.285  479.643 3253.29 227.012 1232.050 1492.120
##                 [,1724]  [,1725] [,1726]   [,1727]  [,1728]  [,1729]  [,1730]
## ORI_10219_10218 3736.90 1853.730 3469.68 1045.6200 1646.960 1269.290 1734.880
## ORI_10735_10730 3298.97 1736.800 3530.17  118.9860 1223.350 1005.160 1065.230
## ORI_14605_14585 3568.81 1624.870 3279.36  218.8720 1571.140  887.518 1294.160
## ORI_14607_14586 3300.10 1681.050 2957.96  641.5710 1429.870 1207.870 1119.040
## ORI_14609_14587 3370.80 2104.160 2997.14  159.0340 1443.710  999.535 1222.040
## ORI_14617_14591 3672.72 1753.560 3468.31  815.6600 1631.920 1374.160  867.759
## ORI_14623_14594 4464.86 1316.010 3409.19  302.8300 1564.960  971.127 1277.220
## ORI_14629_14597 4139.11  713.266 2978.32   58.9536  839.597  938.421  711.480
## ORI_14631_14598 3451.32 2093.500 3186.10  204.7620 1670.860  926.647 1431.460
## ORI_14633_14599 3497.44 1675.620 3732.83  225.3820 1846.160  964.681 1700.130
## ORI_14635_14600 3265.35 1680.260 2704.90  144.8230 1844.980  932.788 1697.330
## ORI_14639_14602 3157.35 2369.530 3448.17  131.6440 1578.940  887.991 1410.120
##                  [,1731] [,1732] [,1733]   [,1734] [,1735]  [,1736]  [,1737]
## ORI_10219_10218 1470.700 3145.24 1903.08   47.5498 718.972 286.2240  248.945
## ORI_10735_10730 1353.020 2612.96 2061.74  119.7160 229.970 133.8610  464.327
## ORI_14605_14585 1295.260 2925.39 2021.89  224.4430 699.650 178.7610  322.325
## ORI_14607_14586 1525.750 3189.00 2265.94  354.0550 324.049 146.0480  575.310
## ORI_14609_14587 1471.760 2976.06 1881.49  257.0330 528.734  97.2985  534.626
## ORI_14617_14591 1158.550 2782.73 1591.58   24.6827 603.015  85.6101  262.064
## ORI_14623_14594 1063.340 2998.48 1690.44   24.6827 434.539 106.5660  215.833
## ORI_14629_14597  879.985 3105.78 1888.05   24.6827 225.202 148.6980  316.617
## ORI_14631_14598 1639.790 2883.00 2310.30  478.7100 228.329 143.1590 1079.010
## ORI_14633_14599 1785.440 3470.45 2432.98   24.6827 337.905 122.5170  267.716
## ORI_14635_14600 1127.210 3016.19 2092.45   24.6827 643.571 113.6350  319.434
## ORI_14639_14602 1131.000 2528.19 2271.66   29.2931 445.155 147.1930  140.123
##                  [,1738]  [,1739]  [,1740]  [,1741]  [,1742]   [,1743] [,1744]
## ORI_10219_10218 2434.230 470.2330 109.3770 123.3190  378.797  766.9680 489.894
## ORI_10735_10730 1360.210 128.9610 144.0540 107.7870 1370.190   66.4664 276.982
## ORI_14605_14585 1723.630 475.0780 267.1480 198.5630  829.714  309.8590 442.167
## ORI_14607_14586 1725.050 214.8460 315.6200 213.5850  703.526  481.4930 190.855
## ORI_14609_14587 2284.200 214.0800 257.6160 206.8400 1273.010  220.4800 364.630
## ORI_14617_14591 2624.390 549.2610  56.3283  98.7737  731.491  753.1660 220.394
## ORI_14623_14594 2046.870 254.8750  62.8130  87.3901  623.329  499.1510 242.979
## ORI_14629_14597 1498.040 156.7610  80.2134 230.4570  923.373  169.4310 160.754
## ORI_14631_14598 1849.660 158.7230 279.0910 153.6710 1012.140  302.5940 225.813
## ORI_14633_14599 2374.760  90.7180 149.6350 267.1540  969.557  195.1210 147.055
## ORI_14635_14600 1736.770 254.5110 154.4430 146.2680  776.984  226.7390 400.564
## ORI_14639_14602 1030.530 122.2810  72.6013 356.1510  770.141  147.1130 241.828
##                 [,1745] [,1746] [,1747]  [,1748]  [,1749] [,1750]  [,1751]
## ORI_10219_10218 322.887 234.115 368.301  384.549  56.3747 206.985  338.221
## ORI_10735_10730 200.355 145.073 887.175  938.165 140.9200 467.877  538.849
## ORI_14605_14585 205.366 262.112 365.611 1126.740 114.8690 301.311  588.277
## ORI_14607_14586 335.277 181.884 440.083  385.792 146.0020 325.212  643.513
## ORI_14609_14587 457.540 215.013 305.467  966.015 168.4530 404.153  453.812
## ORI_14617_14591 340.634 220.776 265.115  516.347  54.6801 280.065  458.921
## ORI_14623_14594 218.058 457.018 387.566  414.587  78.5261 254.542  468.118
## ORI_14629_14597 201.921 269.267 225.502  682.878  54.8819 300.704  613.141
## ORI_14631_14598 337.567 219.900 156.092  733.324 126.2580 343.663 1019.080
```

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## ORI_14633_14599 206.260 397.020 379.838  632.160 159.1740 305.298  773.770
## ORI_14635_14600 238.850 420.493 288.389  504.595 204.0870 334.739  338.656
## ORI_14639_14602 156.982 317.357 292.944  647.532 246.5110 329.604  482.155
##                 [,1752]   [,1753] [,1754] [,1755]  [,1756]  [,1757] [,1758]
## ORI_10219_10218 354.932   62.7500 370.395 445.747  126.781  24.6827 183.363
## ORI_10735_10730 196.547  333.8010 298.234 301.591  450.048  24.6827 232.185
## ORI_14605_14585 236.832  197.0130 463.158 289.493  235.809 539.4730 271.745
## ORI_14607_14586 283.441 1046.3200 692.581 335.034  234.373 368.1450 642.243
## ORI_14609_14587 206.542  719.4890 403.561 235.553  351.918  73.3733 196.013
## ORI_14617_14591 288.118   71.2239 265.233 233.551  124.772  24.6827 223.177
## ORI_14623_14594 238.408   36.4892 448.641 361.502  223.721  73.3892 271.649
## ORI_14629_14597 298.982  229.5200 511.717 338.951  397.885  24.6827 369.695
## ORI_14631_14598 257.270  535.2930 377.104 243.157  167.170  24.6827 208.454
## ORI_14633_14599 266.885  332.4060 404.736 439.229  284.818  24.6827 197.036
## ORI_14635_14600 353.854  153.2980 398.874 390.675  292.925  24.6827 278.501
## ORI_14639_14602 175.431   50.2011 443.301 367.356  163.388  24.6827 227.345
##                  [,1759]  [,1760]  [,1761] [,1762] [,1763] [,1764]  [,1765]
## ORI_10219_10218  484.818 128.7140 1563.770 280.311 287.488 236.649  625.172
## ORI_10735_10730  677.715 176.8380  906.104 613.943 352.610 160.741  697.699
## ORI_14605_14585  527.004 151.0740 1703.120 448.796 348.273 237.942  740.233
## ORI_14607_14586  510.020  58.7995 1358.950 606.335 455.529 246.852 1174.800
## ORI_14609_14587  470.664 115.6280 1441.930 585.745 421.488 179.920  877.924
## ORI_14617_14591  519.655  60.8560 1712.030 441.782 427.202 173.073  426.890
## ORI_14623_14594  448.419 111.5750 1448.610 518.617 257.988 296.344  391.716
## ORI_14629_14597  566.341 152.6780 1027.010 579.475 380.238 207.741  684.853
## ORI_14631_14598  686.887  69.7196 1501.530 519.523 422.806 183.823  714.526
## ORI_14633_14599  494.483 234.5150 1195.320 541.500 408.831 281.399  562.837
## ORI_14635_14600  461.258 142.9960 1109.210 380.469 245.465 216.210  452.947
## ORI_14639_14602  590.429 144.7250  656.911 465.225 390.731 204.676  795.051
##                  [,1766] [,1767]  [,1768]  [,1769]  [,1770]  [,1771]  [,1772]
## ORI_10219_10218 105.1820 455.456  871.532  974.235  298.190  66.5736 1656.360
## ORI_10735_10730 270.8940 575.542  668.347  954.053  580.574 105.5200 1614.700
## ORI_14605_14585 355.4380 585.243  759.874 1376.340  348.868  46.8242 1562.940
## ORI_14607_14586 118.9140 412.915 1248.570 1919.970 1008.420  37.9655 1705.150
## ORI_14609_14587 221.9080 611.040 1101.250 1433.820  955.087  48.8612 1897.670
## ORI_14617_14591 254.2390 657.121  874.370  604.431  370.035  42.5694 1797.170
## ORI_14623_14594 212.1960 702.263  653.629  495.615  619.715  61.2069 1596.370
## ORI_14629_14597 425.0580 505.378  898.469  711.699  369.751  64.5478 1701.730
## ORI_14631_14598 190.6780 482.582  749.122 1210.720  563.937  54.3905 1522.040
## ORI_14633_14599 142.8030 605.377  793.720  756.707  307.315  56.3739 1369.730
## ORI_14635_14600 212.9930 888.429  591.895  759.031  564.964  65.1147 1652.040
## ORI_14639_14602 323.1580 593.138  551.338  423.261  347.720  68.7831 1928.350
##                  [,1773]  [,1774] [,1775]  [,1776] [,1777]  [,1778]   [,1779]
## ORI_10219_10218  614.612  36.4029 398.156 156.0750 258.318  482.264   42.3467
## ORI_10735_10730  630.805 120.1220 874.416 161.1640 609.902 1125.140   24.6827
## ORI_14605_14585  482.920 115.9110 516.498 128.9620 426.599  745.481  108.3530
## ORI_14607_14586  854.789 157.6600 450.249 127.0830 467.072  729.199  153.8140
## ORI_14609_14587  780.691 222.1590 562.077 222.2910 455.543  792.493 1540.7400
## ORI_14617_14591  726.120  34.7602 490.711 158.6990 415.777  923.758  183.6850
## ORI_14623_14594  768.014  57.2394 358.529  98.2818 422.356  489.968   50.4861
## ORI_14629_14597 1411.980  44.0773 133.588 134.8370 559.130  534.295   24.6827
## ORI_14631_14598  839.305 109.7900 348.850 274.6770 742.784  821.527   61.1984
## ORI_14633_14599  554.052  35.5824 305.696 191.6280 306.321  847.004   24.6827
## ORI_14635_14600  691.540  35.2800 311.410 215.4360 587.681  570.460   24.6827
```

```
## ORI_14639_14602  325.520 116.1220 453.202 109.9520 802.433  832.618   24.6827
##                  [,1780]  [,1781] [,1782]  [,1783] [,1784]  [,1785]  [,1786]
## ORI_10219_10218 253.017  681.314 254.738 4464.570 292.889  411.509  396.604
## ORI_10735_10730 350.437  924.343 290.319 4310.710 322.149  560.605  512.575
## ORI_14605_14585 314.604  827.573 217.750 5557.070 439.129  506.893  690.517
## ORI_14607_14586 597.646  503.052 202.837 2278.420 382.355  543.567  493.355
## ORI_14609_14587 441.651  426.302 347.473 3425.160 305.982  856.602  671.604
## ORI_14617_14591 269.667  939.501 275.535 4981.380 444.260  496.682  441.445
## ORI_14623_14594 281.821  834.839 270.050 5801.700 406.356  495.501  352.096
## ORI_14629_14597 357.354  281.041 235.684 4269.560 341.739  776.472  678.676
## ORI_14631_14598 466.792  620.438 358.975 4435.900 251.329  805.399  627.830
## ORI_14633_14599 338.834 1177.700 315.320 6168.780 327.847  534.515  641.531
## ORI_14635_14600 304.047  677.995 432.950 5007.250 397.184  549.251  526.551
## ORI_14639_14602 210.382 1204.540 167.594 3555.050 314.618  459.740  518.654
##                  [,1787] [,1788] [,1789]  [,1790]  [,1791]  [,1792] [,1793]
## ORI_10219_10218 269.121 165.745 535.505  98.1984 111.1280  222.539 573.083
## ORI_10735_10730 362.105 322.974 562.517 252.2180 317.4300  707.199 334.778
## ORI_14605_14585 337.558 126.592 571.579 159.0460 147.5580  418.388 394.450
## ORI_14607_14586 245.680 192.549 547.007 178.3860 249.3050  217.900 386.223
## ORI_14609_14587 453.922 303.021 543.078  46.7330 271.7610  668.379 357.316
## ORI_14617_14591 330.902 150.714 611.078  87.6459  87.7976  384.777 592.421
## ORI_14623_14594 296.410 183.558 612.372 160.9410 118.7100  232.693 345.486
## ORI_14629_14597 217.320 242.606 641.627  75.8914 178.1500  464.161 411.483
## ORI_14631_14598 321.333 297.769 553.128 107.0640 216.3730  460.616 357.640
## ORI_14633_14599 367.691 461.173 600.239 304.4590 223.8280  453.953 450.197
## ORI_14635_14600 414.851 400.461 785.762 145.4080 255.0820  373.038 483.151
## ORI_14639_14602 224.932 258.329 766.633 646.1300 297.6690  361.276 421.219
##                  [,1794] [,1795] [,1796] [,1797]   [,1798]  [,1799] [,1800]
## ORI_10219_10218 4092.430 384.268 614.856 425.600 1942.3400 119.5740 331.301
## ORI_10735_10730 4676.770 125.389 844.448 241.750   44.5729 431.4920 243.502
## ORI_14605_14585 7180.660 284.179 359.730 406.239  127.3810 420.2800 308.271
## ORI_14607_14586 1971.430 200.216 312.075 393.895  618.3140 486.3820 203.353
## ORI_14609_14587 3892.040 241.805 339.219 436.311  236.3250 594.2500 418.237
## ORI_14617_14591 2839.340 185.957 269.201 294.087 1866.3800 351.4540 408.859
## ORI_14623_14594 3875.850 389.423 745.470 240.304  840.7210 213.3490 228.940
## ORI_14629_14597 1842.880 366.313 621.158 209.920  130.0970 132.2470 278.879
## ORI_14631_14598 3263.030 232.881 526.291 366.497  180.6140 546.2400 188.184
## ORI_14633_14599 9675.850 283.453 517.738 485.710  349.8440 412.6300 328.018
## ORI_14635_14600 6258.270 207.371 558.843 312.485  471.4240 317.8750 357.029
## ORI_14639_14602 2335.650 191.632 460.274 376.425  334.5960  80.2319 152.869
##                  [,1801]  [,1802]  [,1803]  [,1804] [,1805]  [,1806]  [,1807]
## ORI_10219_10218 1074.370 204.8400  721.462  890.557 133.776 1408.320 325.6130
## ORI_10735_10730 1263.470 260.7280 1314.190  682.251 204.268 1096.880 276.3020
## ORI_14605_14585 1035.940 223.8050 1020.210  931.117 185.552 1207.420 253.4410
## ORI_14607_14586 1421.330 150.4160 1730.100  610.030 108.340 2644.240 219.4020
## ORI_14609_14587 1096.240 330.3750 1617.680  754.623 127.221 1820.660 146.5090
## ORI_14617_14591 1428.090 170.0080  482.317  746.101  73.976  526.772  31.8678
## ORI_14623_14594 1099.580 184.1470  562.539  703.711 171.119  560.745 216.0680
## ORI_14629_14597 1189.800 188.4650 1373.670  690.281 179.571  508.935 253.9650
## ORI_14631_14598 1214.280 237.1640 1306.070  668.480 165.839 1192.800 141.9250
## ORI_14633_14599 1518.090 240.2980  696.080  887.579 220.907 1473.310 263.8750
## ORI_14635_14600 1358.130 239.7070 1267.340  898.466 190.259  919.831 212.7950
## ORI_14639_14602 1438.960 172.3690  706.110  988.421 170.151  234.369 212.3810
##                  [,1808]  [,1809]  [,1810] [,1811] [,1812] [,1813]  [,1814]
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## ORI_10219_10218  42.9605 192.0910 196.9400 219.286 434.295 543.357 181.2610
## ORI_10735_10730 123.1470 192.4770 123.2920 520.557 525.723 277.624 282.8590
## ORI_14605_14585 179.0820 224.3970 200.5300 290.826 632.215 394.320 145.0990
## ORI_14607_14586 207.8790 583.3060 594.5460 445.183 874.656 300.695 194.9000
## ORI_14609_14587 318.5510 239.7820 188.5440 336.439 519.714 256.108 294.3190
## ORI_14617_14591  24.6827 122.3850  34.3872 318.843 535.922 249.382 129.3880
## ORI_14623_14594  72.8509 144.7600  60.9159 312.010 461.286 504.944 128.8440
## ORI_14629_14597  29.0903 209.5910  80.3853 612.424 532.992 370.606 102.8550
## ORI_14631_14598  82.5517 216.2290 134.3560 548.211 579.704 229.729 211.6150
## ORI_14633_14599 157.4960 202.0950 103.8750 301.606 632.040 334.116 287.1040
## ORI_14635_14600 113.9990 174.7350  74.4997 368.345 523.679 613.255 231.8130
## ORI_14639_14602  74.7079 165.5800  24.6827 405.274 564.443 344.845 273.6620
##                 [,1815]  [,1816] [,1817] [,1818]  [,1819]  [,1820]   [,1821]
## ORI_10219_10218 230.468  294.919 552.093 382.279  985.223 1039.220 2732.9200
## ORI_10735_10730 575.521  892.697 758.960 322.546 1403.860 1987.710 2376.1900
## ORI_14605_14585 272.483  733.908 439.225 354.008 1122.720 1401.810 2995.9700
## ORI_14607_14586 514.022  502.788 613.563 344.395 1267.970 2386.670 1026.9300
## ORI_14609_14587 423.800  540.565 762.297 399.573 1215.520 2693.720 1997.6400
## ORI_14617_14591 194.177  732.183 552.247 391.068 1199.700  916.253 2690.9500
## ORI_14623_14594 261.646  817.793 488.308 420.604  779.876 1508.320 3548.2800
## ORI_14629_14597 337.382  420.643 493.848 408.357  641.181  464.155 1160.8400
## ORI_14631_14598 457.399  769.043 602.981 456.403 1313.530 1851.770 1719.4800
## ORI_14633_14599 421.930  981.602 421.206 400.099 1320.780 2613.090 2743.0900
## ORI_14635_14600 348.954 1095.840 601.654 485.387 1429.000 2561.230 2427.4900
## ORI_14639_14602 441.389  830.584 686.441 253.275 1312.830  874.370 1079.7900
##                  [,1822]  [,1823]  [,1824]  [,1825] [,1826] [,1827]  [,1828]
## ORI_10219_10218  30.2472 1655.460 2183.460  794.354 448.756 717.314  7482.06
## ORI_10735_10730 160.3840 1932.800  636.631 1653.760 255.188 240.516  5153.26
## ORI_14605_14585  45.4461 1824.250 2047.750 1025.550 440.954 334.656  5838.82
## ORI_14607_14586  64.0333  871.168 1849.080  367.157 328.177 463.206  6616.68
## ORI_14609_14587  75.4954 1372.660 2843.550 1819.190 267.378 460.168  6684.21
## ORI_14617_14591  35.8093 2601.790 1933.950  622.709 369.073 347.105  5741.71
## ORI_14623_14594  27.1856 2758.200 1573.960  385.483 518.277 326.654  4933.08
## ORI_14629_14597  75.8486 2017.120  866.922 1813.200 506.711 296.070  4271.85
## ORI_14631_14598 129.8820 1697.800 2188.440 1077.650 296.078 608.881  7300.68
## ORI_14633_14599  45.0547 2162.400  462.684 1905.440 410.018 387.096  6125.76
## ORI_14635_14600  75.4634 1663.100  894.281  540.142 370.717 210.880  2938.09
## ORI_14639_14602 433.7870 2270.730  525.072  834.343 454.017 195.099  2197.27
##                   [,1829]  [,1830]  [,1831]  [,1832]  [,1833] [,1834]  [,1835]
## ORI_10219_10218  854.2890 174.6840  89.3669 1126.120 262.2670 434.897 159.9960
## ORI_10735_10730  239.9920 132.3600 165.4820 1799.850 289.5570 836.410 537.8340
## ORI_14605_14585  297.9170 143.3550 117.9410 1718.140 221.5700 547.699 294.3880
## ORI_14607_14586  557.9280 243.9310 609.2360 2258.320 162.0190 510.101 216.1540
## ORI_14609_14587  445.1930 173.7750 359.2420 1964.890 257.6110 638.503 299.6050
## ORI_14617_14591  257.3620 115.0260  36.6944  934.297 284.1220 570.515 241.4340
## ORI_14623_14594  140.2840 171.7280  24.6827 1093.090 195.9550 541.479 232.7690
## ORI_14629_14597  261.7840 174.5660 109.6610 1090.290 230.8920 685.608 553.8240
## ORI_14631_14598  415.0880 170.8110 228.6050 1802.710 183.7280 537.584 532.2510
## ORI_14633_14599  455.6860 224.8290  71.5191 1347.650 232.2680 607.104 209.2000
## ORI_14635_14600  173.2850 181.7090  28.2944  935.454 190.0090 588.863 253.2430
## ORI_14639_14602  124.0060 150.4680  32.1710 1091.880 285.2300 667.152 597.7450
##                  [,1836]  [,1837]  [,1838]  [,1839]  [,1840]  [,1841] [,1842]
## ORI_10219_10218 1267.730  555.288 240.7420  430.575  427.927  801.552 282.186
## ORI_10735_10730 1501.690 1021.050 142.2280  750.838  703.957 1450.170 373.012
```

```
## ORI_14605_14585 1775.320  896.682 200.0680  641.526  713.646 1038.680 201.316
## ORI_14607_14586 1683.750  885.285 450.1820  582.340  831.803 1464.750 241.148
## ORI_14609_14587 1407.850  871.777 512.7980  731.776  811.138 1298.470 358.897
## ORI_14617_14591 2138.300  756.699  69.1089  814.277  578.583 1052.590 436.422
## ORI_14623_14594 1937.050  783.111 120.2540  552.235  607.790  879.947 286.736
## ORI_14629_14597 1697.130  713.959 301.0670  483.952  997.711 1295.810 106.304
## ORI_14631_14598 1092.820  705.012 302.4330  556.445  732.294 1545.660 388.307
## ORI_14633_14599 1325.870  767.229 231.2000  597.543  655.861 1318.930 225.834
## ORI_14635_14600 1482.750 1002.490  94.8946  730.170  576.807 1007.730 260.994
## ORI_14639_14602 1535.310  861.834  47.0649  772.384  716.572 1294.400 398.573
##                  [,1843] [,1844]  [,1845]  [,1846] [,1847]  [,1848] [,1849]
## ORI_10219_10218  314.228 481.077 1209.190  949.480 137.616 1866.200 452.316
## ORI_10735_10730  884.094 468.383 2132.090  805.137 440.470 1214.090 371.523
## ORI_14605_14585 1158.020 488.042 1614.000  467.749 261.443 1619.570 563.918
## ORI_14607_14586 3454.440 550.558 1663.960  610.404 273.427 1293.460 376.421
## ORI_14609_14587 1140.790 448.025 1834.530 1238.640 319.743 1442.250 396.409
## ORI_14617_14591  637.811 784.086 1028.500 1050.270 265.365 1354.020 606.188
## ORI_14623_14594  551.446 925.471  693.391  690.778 221.855 1333.220 608.561
## ORI_14629_14597  828.576 494.442 2831.430  259.614 256.522 1316.830 814.528
## ORI_14631_14598 1712.310 484.616 1528.180  632.414 274.886 1675.830 495.388
## ORI_14633_14599  713.515 670.683 1632.660  600.074 292.575 1518.620 341.248
## ORI_14635_14600  687.788 681.557 1174.470  667.112 229.795 1624.390 580.544
## ORI_14639_14602  695.729 584.797 1319.470  332.474 369.764 1545.220 561.736
##                  [,1850]  [,1851] [,1852]  [,1853] [,1854]  [,1855]  [,1856]
## ORI_10219_10218  419.636 1387.460 287.968 152.5990 2184.34  278.350  419.793
## ORI_10735_10730  819.412 1633.830 317.950 262.9300 3896.02 1214.300  596.282
## ORI_14605_14585  458.826 2117.340 354.281 225.6750 3146.83 1016.760  702.784
## ORI_14607_14586  512.757  635.839 385.960 176.1620 5430.14 2358.670  835.554
## ORI_14609_14587  564.876 1510.850 342.853 194.2840 4006.11  864.015  553.061
## ORI_14617_14591  387.557 1850.810 259.326 241.9890 1606.52  192.684  330.527
## ORI_14623_14594  460.703 1649.770 211.142 221.4240 1283.00  293.001  152.157
## ORI_14629_14597  579.079  769.606 321.501  99.0063 3184.02  309.077  518.834
## ORI_14631_14598  438.319 1447.420 343.619 261.2020 4374.65 1560.170  491.820
## ORI_14633_14599  718.146 1174.520 320.481 211.5070 1971.18  691.489  457.678
## ORI_14635_14600  441.667 1127.100 252.397 237.2120 1909.31  557.689  263.215
## ORI_14639_14602  433.745  728.820 127.360 162.2530 1829.28  307.519  246.860
##                 [,1857]  [,1858]  [,1859]  [,1860]  [,1861]  [,1862]  [,1863]
## ORI_10219_10218 211.960  879.544  24.6827  786.270  128.339  718.748  517.338
## ORI_10735_10730 185.535  433.004  24.6827  432.282  360.724 1720.540  612.943
## ORI_14605_14585 224.610  701.793  24.6827 1892.690  216.237 1084.580  538.292
## ORI_14607_14586 185.862  785.487  24.6827 2608.850  854.136 2081.070  576.988
## ORI_14609_14587 185.116  876.972  24.6827 1829.120  227.181 1311.670  908.435
## ORI_14617_14591 156.044 1146.400  24.6827  472.807  134.540  612.552  265.814
## ORI_14623_14594 188.601  779.185  24.6827  424.689  176.469  458.853  461.219
## ORI_14629_14597 281.901  539.773  24.6827  453.761  195.910  950.562  650.165
## ORI_14631_14598 110.774 1067.630  24.6827  875.773  398.168 1493.820 1189.070
## ORI_14633_14599 357.773  572.501  24.6827  624.358  138.433  747.768  560.444
## ORI_14635_14600 235.747  833.044  24.6827  346.632  132.273  571.319  375.567
## ORI_14639_14602 239.524  298.940  24.6827  267.285  170.891  592.411  400.125
##                  [,1864]  [,1865] [,1866]  [,1867]  [,1868]  [,1869]  [,1870]
## ORI_10219_10218  246.1130  24.6827 430.549 248.7860 1160.240 1319.520 1795.440
## ORI_10735_10730  415.2530 299.8170 238.510 223.5210 1160.440 1383.330 1527.600
## ORI_14605_14585  498.0210 144.9250 320.817 320.2740 1342.870 1221.490 2041.810
## ORI_14607_14586 1474.5200 216.7130 278.157 303.0930 1034.380 1424.110 1880.940
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## ORI_14609_14587 1003.3700 118.8480 194.344 294.8980  761.193 1602.640 2395.010
## ORI_14617_14591  123.7810 103.4150 225.961 101.2190 1165.970 1713.140 2752.620
## ORI_14623_14594  125.5400 485.2070 516.114 273.0460 1002.140 1313.230 2361.570
## ORI_14629_14597  156.5480 133.1200 285.163 226.8600 1259.070 1706.920 1363.780
## ORI_14631_14598  562.5880 168.8800 230.066 426.0620  889.268 1510.860 1540.720
## ORI_14633_14599  486.4100 203.8300 271.172 233.7680  870.554 1273.120 2412.870
## ORI_14635_14600  222.3960 693.7810 310.502  98.9179 1049.640 1166.170 2755.990
## ORI_14639_14602  156.0050 195.0220 213.011 198.1710  903.908 1241.330 1979.430
##                 [,1871] [,1872]  [,1873] [,1874]  [,1875] [,1876]   [,1877]
## ORI_10219_10218 347.267 384.393  723.130 231.918  708.262 529.231  498.7760
## ORI_10735_10730 492.466 432.080  922.311 352.261  662.563 605.790  457.1880
## ORI_14605_14585 318.029 426.729  826.615 384.801  595.072 538.156  592.5560
## ORI_14607_14586 356.324 363.415  816.127 440.884  670.693 561.754  615.2780
## ORI_14609_14587 479.728 362.331 1115.740 496.783  746.462 764.256  495.3290
## ORI_14617_14591 454.852 494.359  930.601 389.501  735.740 788.827  443.2480
## ORI_14623_14594 270.263 563.947  800.257 371.294  607.398 496.934  544.0770
## ORI_14629_14597 383.447 429.524  841.000 376.006  691.118 516.358  628.1840
## ORI_14631_14598 410.022 321.634 1161.400 442.689  664.827 585.715  629.1050
## ORI_14633_14599 334.018 424.543 1005.380 397.485  864.118 777.916  652.7340
## ORI_14635_14600 377.386 564.246  920.333 516.167  847.555 616.735  533.7560
## ORI_14639_14602 440.307 484.746 1052.120 216.287  686.272 642.199  524.7170
##                 [,1878]  [,1879] [,1880]  [,1881]  [,1882]  [,1883]   [,1884]
## ORI_10219_10218 305.005 203.2130 278.114  685.284 1396.390  619.531   68.9975
## ORI_10735_10730 617.472  54.0896 237.823  432.262  796.010 1321.210  181.1210
## ORI_14605_14585 447.180  78.8567 309.899  430.284 1857.330  890.112  148.2780
## ORI_14607_14586 410.019 248.3230 313.978  609.411 1328.770  797.669  699.5200
## ORI_14609_14587 473.731 103.9530 220.407  871.852 1082.240  901.411  426.4440
## ORI_14617_14591 328.233 361.0950 257.192 1002.490 1042.010  713.471   54.9102
## ORI_14623_14594 437.594 287.4720 340.315  803.899 1100.580  517.124   93.8423
## ORI_14629_14597 336.290  54.3883 328.878  633.199  898.648 1977.690   98.4474
## ORI_14631_14598 472.407  57.9602 307.378  614.385  879.836  783.380  142.2330
## ORI_14633_14599 471.961 302.9910 381.853  551.501 1875.800  589.431   86.5433
## ORI_14635_14600 465.111 181.9470 360.196  643.393  229.053  644.593   91.9764
## ORI_14639_14602 457.958  97.7117 352.117  336.385  218.210 1853.300   67.1626
##                  [,1885]  [,1886]   [,1887]   [,1888]   [,1889]   [,1890]
## ORI_10219_10218  24.6827  213.879   24.6827  474.4130  152.9550   43.2086
## ORI_10735_10730  88.3470  389.489   30.8285  329.1690  211.2850  100.6640
## ORI_14605_14585  24.6827  304.407   24.6827  191.9730  192.4000   28.6383
## ORI_14607_14586  61.8927  667.802  214.4810  583.6680 1255.9000  586.0820
## ORI_14609_14587 182.9220  228.837   24.6827  720.0210  275.1570  112.9100
## ORI_14617_14591  24.6827  123.152   24.6827  626.9100  148.2970   24.6827
## ORI_14623_14594  34.9333  215.890   24.6827  319.6790  176.2820   33.7726
## ORI_14629_14597  24.6827  170.349   24.6827  652.8440   93.1299   57.5382
## ORI_14631_14598  24.6827  247.337   24.6827  681.3970  398.8470  157.2470
## ORI_14633_14599  24.6827  237.852   24.6827  105.6190   26.0182   24.6827
## ORI_14635_14600  24.6827  235.205   24.6827  170.1860   78.0055   24.6827
## ORI_14639_14602  24.6827  205.098   24.6827  337.7910   24.6827   58.7017
##                   [,1891]  [,1892]  [,1893]  [,1894]  [,1895]  [,1896] [,1897]
## ORI_10219_10218   27.1285  24.6827 140.1520  467.693  90.0400 220.6850 223.958
## ORI_10735_10730   98.6017  54.8329  84.4062  810.051 101.5110 348.0080 254.835
## ORI_14605_14585   31.2648  29.3531 149.7930  727.792  52.8696 228.4960 282.697
## ORI_14607_14586 1304.0400 287.3860 382.5950 1514.770  48.3920 134.9710 485.904
## ORI_14609_14587  148.3530  37.4597 114.0950 1494.200  25.4989 231.7410 328.862
## ORI_14617_14591   24.6827  24.6827  96.8598  364.642 122.6830 252.8110 128.963
```

```
## ORI_14623_14594   28.9406  24.6827 155.8520  168.072  39.3761 245.2680 169.889
## ORI_14629_14597   26.2881  24.6827 154.7360  583.848  45.1680 228.2620 179.803
## ORI_14631_14598  318.1350 129.4010 114.6010  797.557  24.6827 159.4060 235.773
## ORI_14633_14599   24.6827  24.6827 127.9010  226.262 120.5910 323.3940 245.449
## ORI_14635_14600   24.6827  24.6827 121.4930  827.073  78.4137 230.2260 211.578
## ORI_14639_14602   24.6827  24.6827 112.6300  389.958 393.9100 402.6340 146.066
##                 [,1898] [,1899]  [,1900]  [,1901] [,1902]  [,1903] [,1904]
## ORI_10219_10218 2713.50 1421.79 147.4570  421.591 142.084 122.1440 375.984
## ORI_10735_10730 3164.28 1292.14 179.1190  467.734 288.864 170.2840 525.446
## ORI_14605_14585 2519.89 1531.51 239.4770  581.039 208.307 164.6820 496.065
## ORI_14607_14586 2438.44 1307.98  99.2426  759.667 325.157 208.3100 598.276
## ORI_14609_14587 2124.78 1059.09 159.5650  561.976 203.957 126.0010 872.710
## ORI_14617_14591 2803.51 1011.60 244.6630  305.251 115.688  43.5360 487.439
## ORI_14623_14594 3006.84 1493.21 254.4000  283.073 135.086  24.6827 351.303
## ORI_14629_14597 1841.95 1446.81 143.6570  469.412 202.697  76.6593 674.969
## ORI_14631_14598 2557.51 1427.73 194.4230  484.061 343.306 160.1910 788.971
## ORI_14633_14599 2919.49 1491.15 359.9330  609.744 196.917 148.4260 463.353
## ORI_14635_14600 3012.83 1497.34 351.0280  320.322 147.825  79.9389 311.076
## ORI_14639_14602 2868.88 1360.74 366.8710  322.038 186.172  73.5138 444.073
##                  [,1905]   [,1906]  [,1907]  [,1908]  [,1909] [,1910]  [,1911]
## ORI_10219_10218 276.9290  225.5080  237.278  31.3770  825.419 2110.03 1398.950
## ORI_10735_10730 108.3410  698.7390  422.439 210.4010  910.769 1754.38 2359.060
## ORI_14605_14585 410.3150  651.1540  399.916  66.9121  821.514 1363.04 2555.140
## ORI_14607_14586 133.1130 1771.7800 1346.090 185.1180  646.386 1346.73 2936.120
## ORI_14609_14587 159.3040 1160.9700 1107.190 255.0930  793.086 2260.14 2272.430
## ORI_14617_14591 111.1940  154.7560  169.053  39.8193  687.111 1940.60 1573.990
## ORI_14623_14594 129.1930   91.9958  230.456  24.6827  636.087 1793.02 1180.940
## ORI_14629_14597 187.5580  172.6900  310.223  90.2244  717.820 1651.85 1946.390
## ORI_14631_14598 118.0720  800.1320  543.304  54.2194  944.048 2794.05 3597.140
## ORI_14633_14599 108.5980  632.9530  355.279  93.5490  968.506 1778.56 1962.960
## ORI_14635_14600 122.2210  217.8100  327.209  25.8088  731.478 1521.14 1254.770
## ORI_14639_14602 181.4150  182.7510  173.175  45.8881  893.150 1639.91 1528.750
##                  [,1912] [,1913]  [,1914] [,1915]   [,1916]  [,1917]  [,1918]
## ORI_10219_10218 1357.9900 542.838  636.046 540.916  104.3000 220.7020 1183.770
## ORI_10735_10730  352.7960 267.979 1130.740 253.456  161.3770  68.3058  631.516
## ORI_14605_14585  555.7290 464.942  509.336 448.526  225.0940 186.6130 1215.290
## ORI_14607_14586  749.6040 475.138  276.438 411.604  864.1600 192.6240 1560.820
## ORI_14609_14587  617.6430 496.827  593.997 269.360  284.3600 104.5680 1224.680
## ORI_14617_14591 1754.5400 621.797  480.904 270.395   42.8171 320.5310  500.016
## ORI_14623_14594 1018.7700 482.213  441.161 620.059  103.5200 167.7650  565.841
## ORI_14629_14597  346.0830 276.615  609.462 484.193   44.4504  36.0314  782.020
## ORI_14631_14598  588.1880 401.282  477.927 367.772  381.9870  78.4356  819.377
## ORI_14633_14599  841.8140 310.900  618.171 498.727   60.1992  76.1797  487.328
## ORI_14635_14600  810.5520 357.120  416.942 505.010   44.2370  88.6529  646.588
## ORI_14639_14602  676.9080 211.915  679.321 435.342   40.6196 200.3780  833.134
##                  [,1919] [,1920] [,1921]  [,1922]  [,1923]   [,1924] [,1925]
## ORI_10219_10218 213.9620 489.311 402.840 252.9710 490.0980 1575.0400 397.270
## ORI_10735_10730 161.5970 323.160 337.900 106.8820 183.4930  348.4780 287.158
## ORI_14605_14585 207.7370 472.127 372.349 284.5790 358.5190  320.9020 243.910
## ORI_14607_14586 116.3210 437.288 377.924 233.5430 283.0830  398.2510 330.465
## ORI_14609_14587 112.8290 325.941 277.149 219.4700 399.1010  437.4710 221.134
## ORI_14617_14591 112.6090 290.299 268.857 329.1130 240.4540 1553.9900 181.002
## ORI_14623_14594 129.0330 472.074 274.158 174.6020 342.6490  891.8920 315.509
## ORI_14629_14597 152.3660 496.242 550.559 138.7550 393.2150  164.6900 360.378
```

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## ORI_14631_14598 124.9450 419.096 267.061 299.4670 267.3090  451.8730 270.376
## ORI_14633_14599 206.7010 514.257 419.099 179.4990 348.9530  270.5810 316.886
## ORI_14635_14600 173.3630 450.041 333.568 148.6930 458.9580  450.4190 303.241
## ORI_14639_14602 194.2430 450.740 331.181 148.6370 349.4610  121.3690 320.294
##                  [,1926]  [,1927]   [,1928]  [,1929]  [,1930]   [,1931]
## ORI_10219_10218  479.454  546.067  370.0980 1824.750 260.4160   92.4989
## ORI_10735_10730  205.263  422.668  884.4460 1696.760 257.7730  829.7960
## ORI_14605_14585  297.166  555.169  457.8210 1620.900 195.4060  299.1040
## ORI_14607_14586  434.169  149.289 1719.9800 1984.120 167.7960  701.9950
## ORI_14609_14587  313.726  466.385 1494.2700 2103.410 404.1280  354.9510
## ORI_14617_14591  158.488  262.165  231.3530 1912.420 250.5460  208.6930
## ORI_14623_14594  191.421  489.987  102.5910 1672.180 128.3700  239.8270
## ORI_14629_14597  250.204  575.323  302.0710 1266.150 188.4000  490.9130
## ORI_14631_14598  172.297  518.288  798.6670 1624.000 139.1040  632.9810
## ORI_14633_14599  316.864  645.797   93.4584 2005.480 229.1330  747.6010
## ORI_14635_14600  249.861  350.617  294.4420 1897.150 209.2220  403.3460
## ORI_14639_14602  355.082  384.631  281.6970  894.237  70.4622  697.1070
##                  [,1932]  [,1933]  [,1934]   [,1935] [,1936]  [,1937]  [,1938]
## ORI_10219_10218 511.8030 294.2830 284.4180 1383.7300 688.582  269.218  917.226
## ORI_10735_10730 983.4280 196.8560 321.1400  154.7900 619.532  407.088 1377.760
## ORI_14605_14585 147.3980 246.5050 269.1400 1506.1300 642.554 1460.140 1224.420
## ORI_14607_14586 201.5810 209.7300 221.4050  420.1660 486.229 2143.970 1693.780
## ORI_14609_14587 186.9860 221.8490 574.8070 1007.7400 397.794  621.253 1594.090
## ORI_14617_14591 655.5110 202.8760 222.5100 1184.4300 316.023  309.575  996.967
## ORI_14623_14594 300.8880 171.8880 199.8950 1120.2300 692.800  369.075 1016.480
## ORI_14629_14597 322.2850 129.1060 127.0330  167.4540 617.667  151.665 1404.790
## ORI_14631_14598 147.5100 242.2580 142.4220  569.4590 510.058 1092.830 1292.480
## ORI_14633_14599 273.2170 118.7160 297.9130  619.4800 549.019  364.264 1584.410
## ORI_14635_14600 186.1420 175.2940 245.8070 1265.6600 818.827  277.291 1037.140
## ORI_14639_14602 175.4220 140.4690 393.3940  113.2650 541.112  152.692 1179.790
##                  [,1939]  [,1940]  [,1941]  [,1942]  [,1943] [,1944]  [,1945]
## ORI_10219_10218  88.3007  695.749  240.828  548.591  569.565 178.608  920.169
## ORI_10735_10730  45.1217 1361.970  574.907  927.774  567.504 411.432  603.506
## ORI_14605_14585  90.5956  942.972  466.436  645.095  469.544 136.526 1093.860
## ORI_14607_14586 285.0940  677.708  672.639  672.717  807.204 275.120 1002.010
## ORI_14609_14587 187.4670 1508.550  610.660  755.151 1094.490 200.012 1233.420
## ORI_14617_14591  82.1991  921.908  303.590  489.889  882.471 212.345 1090.690
## ORI_14623_14594  46.8489  821.166  324.133  572.774  850.120 427.615 1279.440
## ORI_14629_14597  38.6966 1864.230  506.131  593.234  272.124 222.946 1197.720
## ORI_14631_14598  81.2362 1699.670  734.973  832.720  481.670 149.793 1194.800
## ORI_14633_14599  37.9398  919.257  585.530  677.602  968.762 304.772  976.789
## ORI_14635_14600  58.9764  887.721  398.048  961.817  622.821 375.342 1160.000
## ORI_14639_14602  60.0411  931.165  648.337  572.922  227.356 357.337  921.543
##                  [,1946] [,1947] [,1948]  [,1949]   [,1950]   [,1951] [,1952]
## ORI_10219_10218  295.125 332.768 166.405  62.9763  131.2500   24.6827 424.837
## ORI_10735_10730 1004.220 189.612 252.456  45.6374   76.6640   28.9672 629.236
## ORI_14605_14585  778.178 287.809 217.042  48.5902   91.4941   24.6827 507.546
## ORI_14607_14586  731.956 352.439 358.742  70.5769   88.4186   40.2212 516.075
## ORI_14609_14587  937.089 331.170 233.991  38.0738   75.1585   29.7442 641.721
## ORI_14617_14591  812.347 245.894 193.466  36.3818   47.1507   24.6827 481.973
## ORI_14623_14594  666.332 329.381 186.735  46.9560   74.7528   24.6827 442.947
## ORI_14629_14597 1437.620 216.523 149.704  28.3075   73.2917   24.6827 470.560
## ORI_14631_14598  994.962 310.067 255.674  56.9122   69.8107   24.6827 579.404
## ORI_14633_14599 1077.520 310.133 202.098  91.3311  213.2550  122.8920 424.348
```

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## ORI_14635_14600  681.686 410.842 337.796  59.3813   82.9010   24.6827 525.852
## ORI_14639_14602  605.662 447.107 238.931 591.6940 1198.5100 1171.1400 575.443
##                  [,1953] [,1954]  [,1955]  [,1956] [,1957] [,1958]  [,1959]
## ORI_10219_10218  806.141 312.154 556.7210 105.7200 3428.29 295.818 293.9530
## ORI_10735_10730 1098.850 235.001 148.7940 261.3780 3927.93 527.385 152.3400
## ORI_14605_14585  851.442 285.008 189.2170  91.0489 4480.31 389.062 185.5080
## ORI_14607_14586 1021.270 166.564 301.4060  27.6520 2622.27 413.538 268.1880
## ORI_14609_14587 1016.850 190.892 252.9000  39.1528 3590.79 317.229 212.8740
## ORI_14617_14591  687.822 232.842 494.5500 176.0030 3435.83 545.662 354.4700
## ORI_14623_14594  718.282 312.179 314.0210  62.5808 3445.16 259.288 198.8750
## ORI_14629_14597  664.630 338.333 147.1030  24.6827 5810.09 277.661 238.6410
## ORI_14631_14598  851.511 226.638  89.9361  61.8423 4350.30 407.903 162.9850
## ORI_14633_14599 1273.410 341.228 199.9070  41.4447 6291.98 481.706 155.1830
## ORI_14635_14600  769.510 350.622 179.3230 198.0030 3015.43 411.404 208.9530
## ORI_14639_14602  898.856 402.835 603.4030 193.9300 3562.77 575.847 126.6590
##                 [,1960] [,1961]  [,1962]  [,1963]  [,1964]  [,1965] [,1966]
## ORI_10219_10218 2907.34 518.476  720.898  977.915 1190.500 2047.730 338.951
## ORI_10735_10730 1627.92 605.276  525.522  939.554 1009.240  898.940 418.456
## ORI_14605_14585 3077.05 612.944  922.200 1121.870 1207.310 1010.540 384.179
## ORI_14607_14586 2596.59 809.465  502.759 1139.980  587.297  732.628 317.974
## ORI_14609_14587 2984.62 496.323  670.743 1278.900 1186.860 1419.150 389.305
## ORI_14617_14591 2688.08 649.232  663.876 1233.610  588.837 1747.730 296.197
## ORI_14623_14594 3510.77 464.660  548.341 1030.610  857.061  836.281 344.028
## ORI_14629_14597 3231.65 648.213  345.120 1060.250  646.805  983.094 382.605
## ORI_14631_14598 2863.45 459.911  734.108  901.029 1055.510  447.590 529.908
## ORI_14633_14599 2662.17 626.740  641.546 1382.680 1020.880  732.688 453.304
## ORI_14635_14600 3381.62 495.138  608.464 1034.290  899.747  811.035 355.393
## ORI_14639_14602 2472.26 459.175  838.393  851.291  661.368  358.430 365.289
##                 [,1967]   [,1968] [,1969]  [,1970]  [,1971] [,1972]  [,1973]
## ORI_10219_10218 309.272  261.4890 263.792  358.953  430.282 347.345 277.7820
## ORI_10735_10730 312.016  293.4840 196.075 2324.070  658.130 135.963 398.3310
## ORI_14605_14585 358.010  344.4620 313.931 1775.470  465.737 204.059 331.9100
## ORI_14607_14586 400.839  810.1940 232.974 5135.980  444.175 239.634 453.4450
## ORI_14609_14587 536.289  912.7120 350.779 1704.440  550.971 191.935 614.5310
## ORI_14617_14591 384.753  250.0680 312.639  444.342  644.010 153.148 327.9760
## ORI_14623_14594 332.014  141.9570 432.655  722.147  360.317 175.453 180.6340
## ORI_14629_14597 371.625  319.8990 319.011 3894.510  365.078 248.193 513.3940
## ORI_14631_14598 443.168  687.1220 304.435 1792.470  615.344 365.482 543.3460
## ORI_14633_14599 311.119  407.4950 234.456  580.550  461.797 227.873 266.6210
## ORI_14635_14600 335.122  199.1300 427.841  227.449  594.595 204.303 135.6680
## ORI_14639_14602 372.839  156.2880 274.757  522.556  425.013 190.687 394.9020
##                  [,1974]  [,1975]  [,1976]  [,1977] [,1978]   [,1979]  [,1980]
## ORI_10219_10218 1500.610 1603.800 1015.510 193.8450 666.652  188.2500  683.942
## ORI_10735_10730  736.709 1413.110 1242.120 355.7620 731.352  567.4120  467.152
## ORI_14605_14585  960.363 1416.260  753.388 286.7950 740.388  687.0940  481.721
## ORI_14607_14586  785.907 1239.040  883.915 253.5650 632.078  101.5230  381.857
## ORI_14609_14587  641.218 1264.870  814.793 321.0380 945.367  356.6050  437.837
## ORI_14617_14591 1206.610 1538.920 1227.800 219.2180 977.642  196.0960  497.286
## ORI_14623_14594  772.816  831.532  845.213 198.8830 687.222  414.0870  447.229
## ORI_14629_14597  341.123 1195.750  847.483 154.1610 692.305   44.7674  506.858
## ORI_14631_14598  609.559 1030.700  975.054 256.3430 942.985  171.9240  677.474
## ORI_14633_14599  721.997 1478.400 1108.230 455.4220 722.775  359.5500  689.339
## ORI_14635_14600  803.190 1212.280  869.026 308.4560 653.630  492.9190  396.836
## ORI_14639_14602  678.776 1175.980 1229.750 329.5220 518.670  915.1950  485.317
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##                  [,1981]  [,1982]  [,1983] [,1984]  [,1985]  [,1986] [,1987]
## ORI_10219_10218 277.759  876.564 2154.450 282.389 1038.950 212.2630 167.975
## ORI_10735_10730 385.878 1393.320 1754.440 949.365 1343.130 241.2330 485.017
## ORI_14605_14585 282.334 1101.200 2060.290 696.030 1207.830 224.6310 202.980
## ORI_14607_14586 203.121  592.309 1514.520 647.102 1514.910 287.6170 235.667
## ORI_14609_14587 351.958 1514.250 2203.110 434.297 1227.340 262.2240 251.104
## ORI_14617_14591 347.759  679.509 2909.760 396.936 1311.260 140.5910 144.237
## ORI_14623_14594 275.540  548.099 2164.500 539.972 1192.550  88.6608 253.596
## ORI_14629_14597 253.734  830.431 1614.000 321.129 1248.000 471.2870 282.783
## ORI_14631_14598 329.278  901.807 1693.830 441.194 1275.220 185.1280 193.034
## ORI_14633_14599 335.485  245.502 2154.030 500.988 1467.790 128.9650 296.894
## ORI_14635_14600 329.396  583.624 1538.570 500.294 1534.320 107.8070 280.947
## ORI_14639_14602 266.780  473.525  979.592 617.390 1014.640 214.1790 368.660
##                  [,1988] [,1989]  [,1990]  [,1991]   [,1992]  [,1993]  [,1994]
## ORI_10219_10218 175.251 586.910  414.975 1812.920  901.7760  537.223 1656.220
## ORI_10735_10730 373.021 411.624  509.070 1769.360   66.8773 1230.520 3191.950
## ORI_14605_14585 347.045 552.386  526.613 1703.880  122.6810  919.872 3104.370
## ORI_14607_14586 254.023 549.018  511.045 2700.410  645.4220 1629.360 1225.360
## ORI_14609_14587 365.761 603.223  475.359 2549.330  194.1050 1255.160 2913.160
## ORI_14617_14591 517.107 860.826  404.571 1564.810 1434.7500  991.792 1945.860
## ORI_14623_14594 408.388 646.921  383.444 1266.490 1128.4200  900.326 1578.010
## ORI_14629_14597 767.820 345.761  766.652 1671.150  149.4940 1361.500 2413.850
## ORI_14631_14598 440.701 347.357  562.524 2110.140   82.6779 1586.890 2577.150
## ORI_14633_14599 251.193 583.783  410.687 1816.680  219.2370 1523.900 2420.880
## ORI_14635_14600 468.639 605.003  337.857 1749.960  323.5570 1150.880 1965.040
## ORI_14639_14602 326.654 330.977  373.004 1648.240   97.5226 1090.230 2221.060
##                   [,1995] [,1996]  [,1997] [,1998] [,1999] [,2000] [,2001]
## ORI_10219_10218  123.5140 225.381  692.923 320.401 3354.70 257.894 124.498
## ORI_10735_10730  655.8110 308.548  617.672 368.927 3593.16 525.278 372.924
## ORI_14605_14585  705.5060 172.327  660.315 367.563 3795.00 383.053 270.568
## ORI_14607_14586  723.9670 250.046  681.149 250.209 3554.83 335.209 340.660
## ORI_14609_14587 1532.4000 355.980  635.319 339.910 4110.07 379.763 383.327
## ORI_14617_14591  254.7400 199.886  786.289 487.418 4071.35 346.396 232.701
## ORI_14623_14594  416.2580 167.626  683.783 495.377 3064.24 405.288 210.001
## ORI_14629_14597  389.6090 146.406  537.674 210.443 2928.38 393.088 151.811
## ORI_14631_14598  676.7650 406.571  686.124 436.782 3893.16 516.750 318.255
## ORI_14633_14599  817.0860 305.928  841.251 419.772 3975.10 582.523 392.437
## ORI_14635_14600  400.6340 156.070 1355.240 501.414 3188.75 638.302 389.334
## ORI_14639_14602  398.1370 158.839  686.900 352.811 3854.27 356.448 319.197
##                  [,2002] [,2003]  [,2004]  [,2005] [,2006] [,2007]  [,2008]
## ORI_10219_10218 380.583 169.155 1630.410 359.1530 473.203 395.318  297.978
## ORI_10735_10730 447.867 328.484  809.465 134.0240 242.072 356.953  980.185
## ORI_14605_14585 415.213 277.007 1017.180 228.7710 191.466 380.618  649.975
## ORI_14607_14586 479.006 268.527 1202.720 126.3120 367.976 461.361  504.875
## ORI_14609_14587 392.463 365.413 1524.540 120.7090 435.678 494.116  790.155
## ORI_14617_14591 451.033 281.948 1626.050 289.0390 303.946 548.209  470.891
## ORI_14623_14594 349.402 228.097 1033.510 195.0540 231.800 424.739  620.781
## ORI_14629_14597 492.668 410.279 1169.600 112.1980 211.838 422.538  798.381
## ORI_14631_14598 483.067 381.831  802.042  73.7456 394.568 502.699  627.891
## ORI_14633_14599 473.849 333.881 1175.240 353.0090 160.780 372.960  820.794
## ORI_14635_14600 625.237 282.407 1048.990 179.9240 197.266 620.154  684.314
## ORI_14639_14602 538.789 383.395  865.743 174.8740 259.815 477.812 1331.520
##                   [,2009]  [,2010] [,2011] [,2012] [,2013]  [,2014]  [,2015]
## ORI_10219_10218  964.097 379.5590 420.385 539.924 328.917  433.334  720.766
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## ORI_10735_10730 1150.110 427.4580 710.244 518.558 449.323  827.662 1271.160
## ORI_14605_14585 1618.430  24.6827 413.357 609.097 408.761  790.482 1130.210
## ORI_14607_14586 1795.820 663.6960 462.269 630.363 430.914  669.921 1056.190
## ORI_14609_14587 1718.740 798.0640 498.330 706.592 512.284  975.398 1040.730
## ORI_14617_14591 1237.450 589.5860 550.483 764.128 508.558  667.214  686.712
## ORI_14623_14594 1015.610  24.6827 293.012 636.288 387.096  540.645  915.075
## ORI_14629_14597 1699.680  24.6827 878.104 695.717 558.161 1351.830 1437.440
## ORI_14631_14598 1849.430  24.6827 566.567 647.772 487.402  950.565  949.137
## ORI_14633_14599 1169.280 430.7930 480.809 719.368 529.788  723.817 1108.600
## ORI_14635_14600 1013.910  24.6827 428.456 692.202 726.480  767.839  758.024
## ORI_14639_14602 1013.770 432.8890 552.635 861.754 587.454  771.435 1909.530
##                 [,2016] [,2017] [,2018] [,2019]  [,2020] [,2021]  [,2022]
## ORI_10219_10218 1869.28 316.345 166.878 287.728 100.6000 531.428  628.958
## ORI_10735_10730 1679.30 608.548 240.258 428.089 201.3070 449.523  925.636
## ORI_14605_14585 2328.23 355.554 193.112 295.313 159.2260 266.036  673.936
## ORI_14607_14586 2429.16 510.468 291.223 267.977 215.0130 439.256  652.155
## ORI_14609_14587 2734.89 487.277 298.400 370.563 291.1220 245.447  806.308
## ORI_14617_14591 1962.49 601.067 261.292 256.973 142.1830 663.455  448.194
## ORI_14623_14594 1911.46 294.375 133.910 282.067  72.7183 631.439  631.794
## ORI_14629_14597 3325.27 499.116 433.862 393.908  94.3921 260.718  661.037
## ORI_14631_14598 2308.69 409.053 247.960 383.204 104.1820 269.935  979.546
## ORI_14633_14599 2538.79 501.678 221.056 320.669  70.4756 579.196  753.288
## ORI_14635_14600 2130.67 574.518 131.575 403.254  81.8439 400.420  528.830
## ORI_14639_14602 2413.18 571.873 159.913 459.971  33.2933 292.836  534.782
##                 [,2023] [,2024]  [,2025]  [,2026]  [,2027]  [,2028]  [,2029]
## ORI_10219_10218 224.307 651.076 1228.900  683.087  445.554  664.663 161.4930
## ORI_10735_10730 436.079 807.800  247.687  696.036 1024.700  788.607 205.9920
## ORI_14605_14585 318.767 669.131  213.432  756.524  817.455  603.629 114.5070
## ORI_14607_14586 244.016 506.012  975.223  603.664  877.904  399.605 137.9090
## ORI_14609_14587 300.105 537.805  333.493  906.665 1011.400  726.402 155.7440
## ORI_14617_14591 272.301 488.247  130.275  407.167  807.585  756.155 244.2400
## ORI_14623_14594 369.651 488.297  196.339  344.431  684.197  602.894 114.8540
## ORI_14629_14597 345.560 586.985  257.258  638.829  439.958  886.635  44.5887
## ORI_14631_14598 419.713 470.038  828.126  886.072  884.666  799.231 119.4850
## ORI_14633_14599 365.460 806.253  385.187  505.085  863.980  670.982 128.1170
## ORI_14635_14600 335.545 667.743  307.654  488.107 1039.070  680.315 132.7310
## ORI_14639_14602 353.492 635.036  252.292  534.864 1239.120  994.350 158.0570
##                 [,2030] [,2031] [,2032] [,2033]   [,2034]  [,2035]  [,2036]
## ORI_10219_10218 422.606 175.831 232.070 488.871  156.3600 177.1610  455.141
## ORI_10735_10730 229.489 257.487 166.426 459.542   71.3384 187.6780  849.321
## ORI_14605_14585 314.728 200.189 287.224 392.200  447.6160 261.2440  911.289
## ORI_14607_14586 390.247 219.351 259.932 372.867 1087.6000 204.4510  362.702
## ORI_14609_14587 440.335 178.698 210.561 454.263  240.3610 302.5250 1097.400
## ORI_14617_14591 164.532 162.269 178.458 530.448   63.8627 192.4300  357.991
## ORI_14623_14594 264.227 203.258 261.410 359.448   80.6410 204.6820  389.103
## ORI_14629_14597 219.982 260.554 303.869 434.554   61.5748 261.5320  806.299
## ORI_14631_14598 287.811 224.565 263.145 583.944  278.3930 300.8520  788.486
## ORI_14633_14599 325.252 253.577 299.753 423.240  114.2750 283.8430  677.405
## ORI_14635_14600 307.078 267.728 245.514 417.655   74.0666 371.1950  475.717
## ORI_14639_14602 196.153 218.076 264.065 260.309   61.2103 134.2140  510.587
##                 [,2037]  [,2038] [,2039]  [,2040]  [,2041]  [,2042]  [,2043]
## ORI_10219_10218 425.902 1182.280 509.949 199.9960  405.577 177.2620 2454.150
## ORI_10735_10730 384.362 1478.760 481.059 139.2180  767.717 340.2310  630.163
## ORI_14605_14585 283.469  907.090 534.294  81.4383  812.639 115.2440  599.521
```

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## ORI_14607_14586 336.425  648.294 427.999  68.8367  624.308 157.7100 1315.330
## ORI_14609_14587 270.736 1078.470 405.118 141.9450  745.004 246.8720  996.240
## ORI_14617_14591 178.707 1148.830 545.442 260.4010  823.053  99.8381 2637.420
## ORI_14623_14594 273.661  657.640 380.084 229.6600  877.540 136.9480 2457.750
## ORI_14629_14597 394.959  626.449 358.354  42.1003  507.465 343.0000  878.991
## ORI_14631_14598 330.602  996.955 569.711 118.9970  536.170 498.2650 1106.210
## ORI_14633_14599 288.449 1059.680 665.244 158.7860  818.913 216.7710  706.886
## ORI_14635_14600 220.970  614.427 299.794 201.9980  814.497 160.6780  925.881
## ORI_14639_14602 279.561  988.214 368.125  30.0474  476.575 186.3490  704.074
##                 [,2044]   [,2045]  [,2046]  [,2047]  [,2048]  [,2049] [,2050]
## ORI_10219_10218 294.719  791.1720  450.160  186.448 214.3370  468.925 246.717
## ORI_10735_10730 556.736  378.0720  337.947  479.840  92.1176  991.976 388.281
## ORI_14605_14585 456.149  201.2540  327.380  313.030 229.1980  651.159 339.019
## ORI_14607_14586 430.427  370.9650  141.091  357.068 200.7600  618.152 292.678
## ORI_14609_14587 586.670  239.8160  271.839  307.979 234.5670  758.341 309.611
## ORI_14617_14591 456.219  317.3150  178.445  399.463 262.1970  880.755 290.026
## ORI_14623_14594 410.588  312.3610  496.971  426.960 243.0770  599.028 296.558
## ORI_14629_14597 451.466  420.0910 1192.820  298.241 230.5810 1003.640 353.379
## ORI_14631_14598 556.304  338.5950  396.996  527.786 189.3630  900.687 187.464
## ORI_14633_14599 506.881  400.6170  715.313  352.463 151.7150  863.760 313.826
## ORI_14635_14600 666.358  274.0070  249.089  495.268 188.1700  765.079 319.325
## ORI_14639_14602 501.542  293.1120  347.422  701.721 153.6910 1076.660 266.472
##                  [,2051] [,2052]  [,2053] [,2054]  [,2055]  [,2056]  [,2057]
## ORI_10219_10218 199.5950 310.363  414.656 235.333  598.537  570.972  426.781
## ORI_10735_10730 144.1420 142.185  363.303 331.439  723.869  832.413  609.722
## ORI_14605_14585 261.5330 157.399  654.123 264.056  743.642  677.278  355.300
## ORI_14607_14586 196.6680 302.739 1106.730 326.552  751.813  900.057  763.975
## ORI_14609_14587 418.1900 182.041 1336.440 283.829  907.476 1005.240  847.985
## ORI_14617_14591 184.2820 124.556  371.042 202.110  451.587  669.321  357.679
## ORI_14623_14594 208.8470 159.648  357.391 217.326  457.229  524.254  375.650
## ORI_14629_14597 306.4920 206.484  199.390 314.708  628.530  509.041  527.664
## ORI_14631_14598 252.6810 144.267  685.044 298.820 1053.360  707.039  554.332
## ORI_14633_14599 234.8720 316.165  344.863 338.732  867.799  934.895  307.451
## ORI_14635_14600 172.4440 227.491  414.759 218.844  504.524  481.474  382.820
## ORI_14639_14602 107.0380 215.184  229.355 240.488  262.011  948.027 1043.560
##                 [,2058]  [,2059] [,2060] [,2061] [,2062]  [,2063]  [,2064]
## ORI_10219_10218 471.238  799.242 473.138 533.529 111.239  302.395 2341.970
## ORI_10735_10730 289.823 1673.610 647.854 549.495 200.199  696.492 2331.360
## ORI_14605_14585 552.410 1251.010 529.307 540.353 246.927  485.000 2716.550
## ORI_14607_14586 391.028 1284.420 438.320 575.572 252.801  296.252 2257.690
## ORI_14609_14587 260.476 1637.500 440.803 502.074 205.137  822.035 2319.990
## ORI_14617_14591 320.880 1626.460 618.021 398.461 272.911  324.062 1723.380
## ORI_14623_14594 511.819 1361.410 569.639 479.260 250.377  329.931 1500.990
## ORI_14629_14597 512.689 1342.570 506.980 957.020 148.933  684.738 1375.270
## ORI_14631_14598 361.738 1419.160 447.201 500.349 200.050  649.436 2329.920
## ORI_14633_14599 416.814 1288.050 545.933 620.780 309.259  447.366 2325.540
## ORI_14635_14600 439.840 1629.110 694.729 481.512 313.933  570.946 1327.280
## ORI_14639_14602 414.223 1588.280 636.227 621.222 280.033  564.353 1819.610
##                  [,2065] [,2066] [,2067] [,2068] [,2069]   [,2070]  [,2071]
## ORI_10219_10218  541.445 445.712 183.026 588.506 271.080 1241.4800 207.0980
## ORI_10735_10730  770.600 463.015 303.257 753.872 442.409  403.8540 463.3580
## ORI_14605_14585  648.517 595.603 295.109 729.185 322.485  156.3650 336.2200
## ORI_14607_14586  584.974 670.420 302.944 568.796 372.499  223.9540 205.7540
## ORI_14609_14587  669.569 365.018 324.162 835.133 474.963  224.2550 239.2660
```

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## ORI_14617_14591  555.650 441.000 199.301 616.033 303.171 1153.7900 209.9500
## ORI_14623_14594  527.455 690.400 281.508 478.324 320.343  532.9550 194.5710
## ORI_14629_14597 1105.450 631.413 219.139 562.847 706.627  194.8960 634.6900
## ORI_14631_14598  845.004 455.518 399.760 498.055 532.156  285.2050 330.5040
## ORI_14633_14599  782.115 644.832 338.615 626.462 706.240  361.8150 422.0750
## ORI_14635_14600  613.042 590.177 336.541 501.358 510.701  749.4120 400.1280
## ORI_14639_14602  604.008 431.463 217.799 483.163 322.684  210.9510 746.0690
##                 [,2072] [,2073] [,2074]  [,2075]  [,2076]  [,2077]  [,2078]
## ORI_10219_10218 428.621 445.457 363.091  743.021  724.075  253.627  98.3601
## ORI_10735_10730 265.384 440.359 344.645 1645.370  404.591  555.710 175.6800
## ORI_14605_14585 570.852 330.999 381.316  901.686  603.348  443.297  65.0098
## ORI_14607_14586 352.094 507.882 230.842 1417.260  524.617  439.934  80.8573
## ORI_14609_14587 369.331 414.833 243.736 1099.690  867.520  634.086 272.2630
## ORI_14617_14591 469.280 263.989 224.129 1068.740  917.003  357.767  57.5954
## ORI_14623_14594 326.707 242.888 396.631 1007.060  554.734  411.879 167.2650
## ORI_14629_14597 178.245 397.575 389.493  892.212  430.043  326.533 207.7210
## ORI_14631_14598 278.232 427.713 372.375  783.176  779.121  550.558 183.0010
## ORI_14633_14599 409.758 267.123 403.919 1155.890  435.445  539.588 157.1950
## ORI_14635_14600 451.085 218.100 415.150 1303.010  619.700  617.363 216.0420
## ORI_14639_14602 211.170 276.121 441.477 1049.750  569.863  563.990 113.7700
##                  [,2079]  [,2080]  [,2081] [,2082] [,2083]  [,2084]  [,2085]
## ORI_10219_10218  346.150 203.4320 173.1670 530.181 146.315  677.456 345.7030
## ORI_10735_10730  440.770 196.2730 306.2720 618.346 438.109  658.370 257.7500
## ORI_14605_14585  390.695 143.2420 338.1380 556.311 157.247  617.291 268.4380
## ORI_14607_14586  438.469 590.1970 157.2190 598.087 182.575  853.424 173.3010
## ORI_14609_14587  286.552 271.6940 474.0740 636.536 350.659  627.741 211.2050
## ORI_14617_14591  317.878  60.1651 112.0650 626.069 119.848  814.909 528.4600
## ORI_14623_14594  401.658 221.3040 156.2410 516.139 156.611  946.070 291.5540
## ORI_14629_14597  434.382 133.2770 171.5050 510.194 183.918  463.782 240.7220
## ORI_14631_14598  317.446 343.1740 216.4660 725.268 325.289  520.063 313.1440
## ORI_14633_14599  430.796 158.8380 153.3340 502.766 166.644  544.008 256.1450
## ORI_14635_14600  412.462 140.8170 127.0650 693.458 161.894  717.769 361.5610
## ORI_14639_14602  360.698 566.5710 164.8750 742.473 207.227  453.220 229.7050
##                  [,2086] [,2087] [,2088] [,2089]  [,2090] [,2091]  [,2092]
## ORI_10219_10218 1228.580 346.027 256.745 289.907  78.8644 522.695  739.989
## ORI_10735_10730  813.159 402.292 252.109 204.142  45.2922 270.096  439.270
## ORI_14605_14585  719.563 493.823 333.397 315.761  77.9510 326.186  965.378
## ORI_14607_14586 1095.900 413.322 309.748 222.041 113.6650 266.371  848.904
## ORI_14609_14587 1246.150 523.317 227.158 220.839 184.6900 420.398 1296.290
## ORI_14617_14591  877.506 500.993 206.951 230.802  51.2470 515.907 1438.080
## ORI_14623_14594 1037.990 434.406 412.983 242.294  54.7244 240.428  837.921
## ORI_14629_14597 1182.680 477.955 518.830 300.129  52.4170 325.135  857.349
## ORI_14631_14598 1333.220 702.684 340.441 132.821  89.1203 431.816 1053.730
## ORI_14633_14599  814.939 590.073 400.072 325.416  75.2650 264.620 1021.740
## ORI_14635_14600  600.614 556.443 430.852 316.547  55.4322 344.980 1312.670
## ORI_14639_14602  537.716 469.086 445.142 272.539  53.8673 183.206  867.295
##                 [,2093]  [,2094]  [,2095]  [,2096] [,2097]  [,2098]  [,2099]
## ORI_10219_10218 681.153 140.2540 156.8570  642.985 6459.00  756.143  388.228
## ORI_10735_10730 562.214 157.1360 319.1850  817.069 7081.98  411.456  717.919
## ORI_14605_14585 539.003 220.4020 199.2870  816.967 6316.23  573.338  399.187
## ORI_14607_14586 445.387 170.9220 251.7050  495.527 6505.40  424.467  537.332
## ORI_14609_14587 411.937 236.9750 304.0250  790.012 7196.74  659.466  680.812
## ORI_14617_14591 395.065 104.4610 158.8390  873.875 5942.34  700.704  725.777
## ORI_14623_14594 465.548 198.7890 185.1790  679.210 5735.63  802.787  461.192
```

```
## ORI_14629_14597 461.241 185.5280 365.9610  587.755 6304.95  402.779  655.903
## ORI_14631_14598 467.662 297.0990 326.0290  593.665 5859.19  820.154  481.227
## ORI_14633_14599 497.330 368.2930 253.1930  796.058 6873.63  540.742  430.923
## ORI_14635_14600 504.543 171.6670 198.5870  858.058 6148.49  647.198  346.630
## ORI_14639_14602 531.543 151.3300 183.3810  696.383 5997.25  315.670  654.095
##                  [,2100]  [,2101] [,2102]  [,2103] [,2104]  [,2105]   [,2106]
## ORI_10219_10218  624.439 275.3990 592.915  506.796 633.717  766.803   24.6827
## ORI_10735_10730  661.951 237.0910 735.680  636.328 537.986  590.148  764.1590
## ORI_14605_14585  550.427 247.9930 619.593  565.690 471.478 1018.710  150.5770
## ORI_14607_14586  625.820 179.3450 565.460  390.109 544.366  867.864  892.5660
## ORI_14609_14587  789.831 293.8920 454.038  806.948 545.689 1026.510   68.1381
## ORI_14617_14591  448.292 279.6030 575.916  523.211 570.920  769.364   24.6827
## ORI_14623_14594  394.601 343.4290 588.375  533.387 365.691  691.837   44.4127
## ORI_14629_14597  291.260 487.0530 684.270  136.768 305.313 1256.610   78.3603
## ORI_14631_14598  612.598 385.8620 745.947  835.451 525.181 1281.670  490.0230
## ORI_14633_14599  717.567 406.4800 625.083  511.125 381.441  632.975  154.6920
## ORI_14635_14600  592.964 346.9650 568.839  468.203 421.040  844.047   24.6827
## ORI_14639_14602  455.906 331.2180 481.934  425.712 337.154  830.284   88.2528
##                 [,2107]  [,2108]  [,2109]  [,2110]  [,2111] [,2112] [,2113]
## ORI_10219_10218 468.716 188.3810  947.430  744.357 167.7480 371.130 333.420
## ORI_10735_10730 548.271  97.7842  932.005 1635.400 239.9910 267.267 260.033
## ORI_14605_14585 657.166 192.0420  963.455 2564.030 200.9520 352.705 283.678
## ORI_14607_14586 547.133  94.6013 1266.660 1982.540 245.4480 249.546 243.708
## ORI_14609_14587 557.900 182.1970 1205.220 2111.910 483.4540 291.346 256.094
## ORI_14617_14591 430.652 216.3700  791.576 1064.360  78.5881 204.933 274.111
## ORI_14623_14594 395.511 174.9680  568.704  948.952 104.0770 261.948 279.901
## ORI_14629_14597 493.384 145.1750  866.242  873.614 174.2030 339.389 255.448
## ORI_14631_14598 667.518  98.2975 1041.000 1576.020 370.2950 279.975 272.162
## ORI_14633_14599 622.389 114.4460  921.889 1283.610 270.9560 394.417 263.490
## ORI_14635_14600 494.637 127.4900  654.682  973.520 174.0910 456.240 245.365
## ORI_14639_14602 467.778  47.9488  546.541  868.596  88.6722 327.432 278.916
##                  [,2114] [,2115] [,2116]  [,2117] [,2118]  [,2119]  [,2120]
## ORI_10219_10218 223.2990 345.274 370.775 531.4240 581.231  84.2005  385.911
## ORI_10735_10730 385.9750 450.596 231.197 207.9080 226.585 197.8700  734.214
## ORI_14605_14585 266.4840 408.431 199.460 279.4550 156.219  76.4053  756.067
## ORI_14607_14586 420.6320 360.365 190.098 424.4560 313.476 165.8130 1094.520
## ORI_14609_14587 424.6180 468.017 300.646 362.6560 293.608 119.9250 1157.740
## ORI_14617_14591 406.8000 307.294 509.811 704.6160 602.636  71.4861  444.231
## ORI_14623_14594 347.0250 332.064 285.994 372.9730 387.689  88.4266  396.715
## ORI_14629_14597 331.7830 163.439 260.851 291.3630 336.170 131.0550 1088.690
## ORI_14631_14598 471.6450 397.288 247.650 566.0900 304.162 169.2750 1140.580
## ORI_14633_14599 356.0640 325.536 245.107 152.4140 428.988 127.6400  716.896
## ORI_14635_14600 548.9290 462.427 257.372 293.9260 540.323  93.9677  506.554
## ORI_14639_14602 499.6620 343.733 214.022 189.5860 243.545  90.3410  432.364
##                 [,2121]  [,2122]  [,2123]   [,2124] [,2125] [,2126]  [,2127]
## ORI_10219_10218 422.283 1361.520  174.934  292.7430 327.083 277.892  326.171
## ORI_10735_10730 561.261  905.523  217.536  471.5510 457.935 500.269  755.197
## ORI_14605_14585 383.055 1349.810  192.809  686.5820 634.310 302.895  488.592
## ORI_14607_14586 423.680 1814.190  173.990  560.0040 591.710 270.994  439.419
## ORI_14609_14587 389.417 2882.310  192.755  705.8210 818.987 346.685  633.460
## ORI_14617_14591 379.385 1249.450  141.859  565.3680 536.186 289.270  357.188
## ORI_14623_14594 365.116 1001.400  198.448  365.7030 365.364 307.591  484.767
## ORI_14629_14597 393.441 1363.930  225.554  185.0400 445.219 356.342  645.800
## ORI_14631_14598 458.328 2084.360  236.628  695.4200 587.604 419.020  660.125
```

```
## ORI_14633_14599 435.109 1556.510  182.640  175.1430 425.838 294.189  524.190
## ORI_14635_14600 322.389  883.548  181.653  158.0290 393.547 394.795  551.595
## ORI_14639_14602 220.881  633.172  188.144  181.1520 278.556 302.340  892.173
##                 [,2128] [,2129] [,2130] [,2131]   [,2132]  [,2133]  [,2134]
## ORI_10219_10218 351.685 445.285 384.797 477.970 1640.5300  50.7538 475.5910
## ORI_10735_10730 330.601 477.060 774.516 422.926  128.2540 150.4260 181.1800
## ORI_14605_14585 261.682 528.191 666.934 221.311  808.1440  69.6943 216.2850
## ORI_14607_14586 297.684 444.242 543.171 233.280  860.3620  51.3271 167.8560
## ORI_14609_14587 257.425 602.063 536.205 179.633  350.0900 247.3130 279.6920
## ORI_14617_14591 485.081 439.973 325.917 326.417 2114.5600  83.3038 627.9800
## ORI_14623_14594 304.822 488.452 462.553 221.352 1394.7000 248.3140 764.5420
## ORI_14629_14597 236.714 560.897 227.575 230.701  199.9330 198.7560  86.4573
## ORI_14631_14598 299.237 492.215 543.326 135.068  787.3850  70.9513 161.8040
## ORI_14633_14599 346.719 588.778 245.864 279.304  552.1540 209.2380 473.6550
## ORI_14635_14600 274.205 596.164 507.975 247.894  993.1640 233.7510 228.6180
## ORI_14639_14602 259.977 368.332 210.210 147.645  468.1660  82.0423 126.8570
##                  [,2135] [,2136]   [,2137]  [,2138]  [,2139]  [,2140]  [,2141]
## ORI_10219_10218 215.9600 611.387   87.8677  780.903  721.139 221.1490 1416.740
## ORI_10735_10730 223.6040 368.359  147.6780  439.043 1225.120 122.6980 1122.060
## ORI_14605_14585 181.1130 675.916  107.6660  673.053  806.810  96.2792 1360.540
## ORI_14607_14586 170.3340 456.855  698.0740  760.489  850.539 280.9050  789.015
## ORI_14609_14587 117.8380 345.452   72.2187 1294.570 1141.480  24.6827  988.369
## ORI_14617_14591  96.1482 428.786   59.5586  713.994  888.321 237.2330 1275.880
## ORI_14623_14594 171.3170 843.916  115.5090  403.256  822.725  50.3075  792.392
## ORI_14629_14597 199.9370 737.384   92.8662 1714.710 1175.950 235.7990  758.675
## ORI_14631_14598 192.3290 536.846  657.1550 1182.130 1362.810  24.6827  626.094
## ORI_14633_14599 239.1340 622.391  114.7220  283.520  965.628 600.5480  712.207
## ORI_14635_14600 243.2640 758.413  115.0150  311.980  901.902  24.6827  812.916
## ORI_14639_14602 352.8650 507.741  101.7100  461.337 1106.640  96.4971  504.586
##                  [,2142]   [,2143]  [,2144]  [,2145]  [,2146] [,2147]  [,2148]
## ORI_10219_10218 186.4510  734.5970  326.144  50.1768 383.4780 322.543  56.5366
## ORI_10735_10730  60.3128  359.2170 1000.470 314.5070  66.0161 410.122  69.4915
## ORI_14605_14585 138.3010  261.3110  485.683  88.0159 120.0080 151.134  54.0137
## ORI_14607_14586 144.6910  285.7410  559.982  40.5304 195.4650 225.719 121.7900
## ORI_14609_14587  80.5074  227.0710  370.934 110.1140 109.6760 122.800  50.7760
## ORI_14617_14591 252.1010  853.3620  529.330  36.5675 444.8540 209.706  42.8825
## ORI_14623_14594 216.4280  454.3040  481.074  96.4208 315.7890 206.938  59.3940
## ORI_14629_14597 115.7100  262.6660 1265.980  79.9827 141.5640 158.674  86.8209
## ORI_14631_14598  74.0754  216.2310  473.491  77.0620 156.8210 172.741  66.0307
## ORI_14633_14599 123.9930  158.4340 1203.020  99.9836 164.4880 152.279  90.0183
## ORI_14635_14600 102.7160  171.6150  705.970 145.7050 195.4260 176.908  49.4235
## ORI_14639_14602  60.5966  120.4920  813.996 302.8950 129.5290 196.354 388.5370
##                   [,2149]  [,2150] [,2151]   [,2152]  [,2153]  [,2154]  [,2155]
## ORI_10219_10218  137.2540 253.7640 362.544 1045.9700 135.6850  297.057 1019.540
## ORI_10735_10730  202.0270 532.4910 446.316 1315.1900 274.0710  674.307  871.181
## ORI_14605_14585  672.8450 174.4650 385.556 1443.1200 189.7700  365.734 1167.640
## ORI_14607_14586   62.0033 233.6500 314.345  902.8280 117.6750  378.049  911.564
## ORI_14609_14587  171.2830 405.8760 704.415 1966.0600 185.5130  835.639  759.485
## ORI_14617_14591  416.7350 246.6620 649.939  854.5460  95.2790  539.600  775.711
## ORI_14623_14594  548.7770 311.6800 334.125  526.5950 127.5250  581.689 1151.020
## ORI_14629_14597   24.6827 478.7480 461.699 1270.5100 112.3460  728.301 1004.930
## ORI_14631_14598   44.0383 340.8270 723.808 1420.6800 183.0770  638.454  857.815
## ORI_14633_14599 1447.2900 400.4640 306.047  921.9970  94.1561  537.924 1047.960
## ORI_14635_14600  681.6450 354.3300 350.128  486.5360 118.2070  787.742  953.720
```

```
## ORI_14639_14602  819.1760 433.3970 140.529  821.8670  74.9328  693.356  850.818
##                  [,2156]  [,2157] [,2158] [,2159]  [,2160]  [,2161]  [,2162]
## ORI_10219_10218 246.135  85.0684 1379.32 316.624  705.966 1140.900 1049.990
## ORI_10735_10730 253.279 125.8580 1897.74 433.401  670.862 1198.510  458.770
## ORI_14605_14585 307.605  43.4405 1612.96 320.287  645.913  837.308  951.272
## ORI_14607_14586 220.506  68.9775 1649.33 368.072  544.180 1381.580  446.569
## ORI_14609_14587 409.902 137.9070 1754.55 483.246  725.947 2276.060  670.709
## ORI_14617_14591 365.514  46.2613 1687.13 506.456  890.282  823.140  668.310
## ORI_14623_14594 226.929 106.4100 1180.93 295.285  490.942  597.108  476.599
## ORI_14629_14597 230.763 519.4120 1308.97 280.133  658.571 1158.140  456.003
## ORI_14631_14598 303.561  95.3287 1711.23 478.164  816.211 1306.670  437.736
## ORI_14633_14599 241.657  85.9588 1175.16 439.752  755.206  952.635  462.092
## ORI_14635_14600 248.580  83.7680 1026.13 415.564  677.608  655.831  380.663
## ORI_14639_14602 116.988  78.6252 1362.83 369.768  609.804  945.379  347.998
##                  [,2163] [,2164]  [,2165]  [,2166] [,2167]  [,2168]   [,2169]
## ORI_10219_10218 279.564 221.581  528.401  604.166 253.996  41.4193  678.5680
## ORI_10735_10730 268.428 315.181  571.341  780.981 346.208 232.2330  151.9100
## ORI_14605_14585 336.602 253.892  467.081  617.019 328.687  94.7554  263.1830
## ORI_14607_14586 302.659 211.587  550.512  937.787 559.841 168.9720  264.8120
## ORI_14609_14587 268.514 222.331  639.765 1445.740 333.936 278.8090  248.0200
## ORI_14617_14591 224.931 231.717  653.473  804.627 226.661  73.3333  469.2340
## ORI_14623_14594 293.518 340.402  560.685  613.023 261.827  79.8332  384.9210
## ORI_14629_14597 227.256 250.575  729.463  831.797 227.447  90.3033  202.7060
## ORI_14631_14598 216.714 271.717  654.351 1579.730 355.837 177.3580  249.9390
## ORI_14633_14599 400.068 328.231  588.603  763.768 249.799 214.8990  459.3500
## ORI_14635_14600 328.159 315.114  747.643  726.276 274.280 113.9690  338.2720
## ORI_14639_14602 246.870 434.367  642.008  804.060 546.404  54.9534  154.1870
##                  [,2170]  [,2171]   [,2172] [,2173] [,2174]  [,2175]  [,2176]
## ORI_10219_10218 311.721  85.9702 2048.8500 497.845 665.598  437.075 228.5590
## ORI_10735_10730 465.843  80.7744  419.9200 515.431 880.119  960.172 530.6920
## ORI_14605_14585 374.721  96.1058  935.4610 298.105 794.320  523.594 263.3160
## ORI_14607_14586 495.510 215.8300  573.0210 506.792 806.486  595.883 194.2000
## ORI_14609_14587 438.197 183.8020  640.7150 624.188 868.731  487.124 614.2970
## ORI_14617_14591 395.842  32.0551 1723.1500 424.760 911.861  793.603  74.5006
## ORI_14623_14594 318.723  40.2460 1081.5700 305.315 756.096  601.584 203.7470
## ORI_14629_14597 317.710  88.5615  291.4290 528.676 757.804  628.272 172.4310
## ORI_14631_14598 378.968 199.5670  537.8130 531.090 742.521  505.815 609.3780
## ORI_14633_14599 394.025  60.8042  659.1750 578.926 772.305  601.590 236.7560
## ORI_14635_14600 336.504  65.2509  895.1680 666.833 633.459  673.679 194.3360
## ORI_14639_14602 339.010  29.9402  445.3340 278.073 542.436 1002.970 369.2280
##                  [,2177]  [,2178]  [,2179] [,2180]  [,2181]  [,2182]  [,2183]
## ORI_10219_10218 111.6620  24.6827  903.594 272.833  99.3242 1379.330 1434.380
## ORI_10735_10730 278.7940 115.2280 1638.350 203.138  67.1435  961.727 1492.440
## ORI_14605_14585 151.2960  65.8437 1271.870 232.759 109.7800 1883.330 1809.720
## ORI_14607_14586 163.8270  68.3226 1129.550 352.156 178.0150 1386.400 1599.340
## ORI_14609_14587 227.1840 456.3870 1532.440 290.987  75.2708 1879.870 1427.300
## ORI_14617_14591 223.9350  24.6827 1261.530 181.773  56.6329 1292.020 1905.050
## ORI_14623_14594 133.0140  36.2834  545.457 219.971  93.0403 1673.000 1328.260
## ORI_14629_14597 166.7830 115.7160 1887.520 226.029 118.9000 1920.300 1238.010
## ORI_14631_14598 194.6790 102.9180 1187.060 267.504  73.7406 1463.030  936.574
## ORI_14633_14599 129.8920  42.7445  715.385 238.462  89.3834 1811.560 1680.760
## ORI_14635_14600  84.4766  30.1832  657.723 192.765  81.9388 1967.350 1497.900
## ORI_14639_14602 121.3870  24.6827 1099.440 177.629  72.0973 1500.320 1511.360
##                  [,2184] [,2185] [,2186]  [,2187]  [,2188]  [,2189]   [,2190]
```

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## ORI_10219_10218  942.247 2603.84 3652.00 1916.290 312.8950 1768.130 3077.1600
## ORI_10735_10730  143.609 2106.42 1872.73  924.205 331.2840  880.790  726.3040
## ORI_14605_14585  365.085 2950.79 2584.34 1445.640 184.0940 2687.340  358.2430
## ORI_14607_14586  310.646 1822.68 2479.30 1522.060 222.8610 1700.700 1270.1200
## ORI_14609_14587  294.396 2282.91 2364.42 1404.820 272.1510 2104.230  429.5640
## ORI_14617_14591  941.595 2474.92 2744.56 1759.350 397.2560 2151.770 3317.1400
## ORI_14623_14594  432.611 2373.40 2225.76 1417.520 241.7370 2134.660 1605.0800
## ORI_14629_14597  222.750 2260.58 2382.96 1401.290 101.1220 1168.980  730.3850
## ORI_14631_14598  520.208 2199.01 2640.11 1559.860 294.8770 1622.020  449.1800
## ORI_14633_14599  251.990 2344.13 2014.98 1625.300 213.6230 1500.090  911.3740
## ORI_14635_14600  413.917 2184.57 1849.25 1529.960 317.4840 1564.710 1299.4500
## ORI_14639_14602  252.669 1974.96 1486.97 1762.580 222.6620 1316.350  888.3770
##                 [,2191]   [,2192] [,2193]  [,2194]  [,2195] [,2196]   [,2197]
## ORI_10219_10218 531.316 1311.8500 145.621  359.447 1226.060 200.003  161.6840
## ORI_10735_10730 651.881  559.5290 270.154 1127.040 1036.750 375.558  852.3780
## ORI_14605_14585 787.682  782.4950 176.659  680.634 1010.240 375.497  341.8630
## ORI_14607_14586 891.220  421.4080 221.498  651.260  665.254 429.092  791.8770
## ORI_14609_14587 820.683  329.9490 173.098 1119.110  550.022 251.312  489.1370
## ORI_14617_14591 478.987 1202.7600 165.439  721.666  381.819 211.118  158.7480
## ORI_14623_14594 451.139  860.6970 154.866  628.276 1185.970 173.128  156.6900
## ORI_14629_14597 579.663  246.0890 740.251  847.323  679.567 315.981  179.9450
## ORI_14631_14598 606.571  270.0230 164.294  870.570  567.600 359.422  449.2860
## ORI_14633_14599 648.918  875.5600 187.002 1211.470  931.029 240.559  380.3780
## ORI_14635_14600 483.434 1241.6600 194.095 1015.730 1017.020 192.579  243.8800
## ORI_14639_14602 548.068  737.7290 201.067 1764.030  851.903 263.781  258.5230
##                  [,2198] [,2199] [,2200] [,2201]  [,2202]  [,2203]  [,2204]
## ORI_10219_10218 279.1400 276.831 485.515 373.946  92.4110 293.1790  942.393
## ORI_10735_10730  94.1888 230.374 490.951 353.635 179.9290 137.3830  702.379
## ORI_14605_14585 113.6290 327.306 602.242 824.988 262.7250 150.2660  834.640
## ORI_14607_14586 153.9510 315.479 423.854 418.105 451.6780 101.9620  592.218
## ORI_14609_14587  90.2827 271.466 386.232 463.426 367.0580 166.4670 1025.940
## ORI_14617_14591 265.2050 222.062 455.268 444.172  69.9720 429.6360  748.005
## ORI_14623_14594 184.2610 318.314 424.805 359.418  49.4096 165.6410  420.031
## ORI_14629_14597 177.6700 390.018 510.202 121.940  58.7695  84.4654 1073.220
## ORI_14631_14598 115.5120 324.062 330.537 261.396 222.9910  91.5530  516.184
## ORI_14633_14599 153.8120 335.199 400.628 659.320 157.0550 194.8200  711.416
## ORI_14635_14600 140.0730 290.423 324.142 402.333 148.4570 176.5850  617.492
## ORI_14639_14602 138.5640 214.473 532.356 615.836  24.7958  77.9367  983.286
##                 [,2205]  [,2206]  [,2207]  [,2208]  [,2209]  [,2210] [,2211]
## ORI_10219_10218 450.665 741.2170  424.217  965.001 119.9660 2206.610 241.092
## ORI_10735_10730 411.347 242.1140 1194.200  598.656 257.3990 1032.030 216.463
## ORI_14605_14585 468.446 542.9370  480.363  853.766 238.4470 1361.850 225.058
## ORI_14607_14586 359.078 333.9320  474.112  513.012 140.0340 1395.630 291.310
## ORI_14609_14587 333.637 387.4350  862.897  588.516 293.6530 1647.320 310.463
## ORI_14617_14591 284.173 660.5840  585.140  655.895 133.6120 2561.400 149.488
## ORI_14623_14594 497.737 499.5790  271.089  945.199 190.9190 1441.470 166.550
## ORI_14629_14597 458.144 244.9780  464.794  816.332 165.5020 1178.310 204.760
## ORI_14631_14598 390.098 271.9620  733.227  742.674 273.7810 1803.440 298.694
## ORI_14633_14599 403.766 377.9460  433.419  953.897 205.8830 1201.430 335.674
## ORI_14635_14600 416.675 370.8250  163.980  842.126 303.0940 1334.680 325.237
## ORI_14639_14602 398.017 208.7590  249.279  820.436 255.1320  792.930 173.828
##                 [,2212] [,2213] [,2214] [,2215] [,2216]  [,2217] [,2218]
## ORI_10219_10218 326.179 383.048 258.428 391.243 258.898 177.1980 295.610
## ORI_10735_10730 255.241 502.595 313.812 441.191 413.879 279.5060 450.307
```

```
## ORI_14605_14585 235.285 498.663 241.014 550.709 308.661 223.1090 424.126
## ORI_14607_14586 213.141 453.635 158.263 735.067 281.231 246.8690 293.154
## ORI_14609_14587 232.366 599.681 321.067 689.839 301.853 310.5450 418.207
## ORI_14617_14591 214.396 446.441 150.053 449.204 286.219 181.8910 186.594
## ORI_14623_14594 264.280 349.498 279.674 442.993 189.080 195.8860 265.988
## ORI_14629_14597 130.572 475.489 585.882 564.060 349.711 198.2340 440.472
## ORI_14631_14598 223.553 493.708 234.907 672.567 407.620 297.3470 410.549
## ORI_14633_14599 233.293 647.482 258.618 600.413 320.545 243.7810 284.791
## ORI_14635_14600 263.859 637.137 246.255 727.975 365.019 241.7310 344.667
## ORI_14639_14602 400.760 450.304 173.601 673.153 379.525 167.1920 375.984
##                  [,2219]   [,2220]  [,2221]   [,2222] [,2223]  [,2224] [,2225]
## ORI_10219_10218 337.7590  678.8500  392.734  102.1080 4111.90 1088.890 235.492
## ORI_10735_10730 129.7070 1086.0100  763.020  544.5260 2926.93 3716.010 423.386
## ORI_14605_14585 215.2060  242.2390  624.905  215.9400 3235.35 2637.470 263.299
## ORI_14607_14586 261.4550  242.0010  739.097  384.9380 2315.89 1352.320 406.804
## ORI_14609_14587 139.1770  813.4910  848.322  802.0040 3340.90 2930.960 329.831
## ORI_14617_14591 137.9790  834.8900 1117.410   53.9074 2744.16 1496.420 260.022
## ORI_14623_14594 281.0710  768.9750  594.003  101.4940 2537.06 1981.630 232.777
## ORI_14629_14597 251.1710  547.4460  832.391   77.9448 1863.72 1136.310 245.849
## ORI_14631_14598 163.5490  657.0120  797.895  627.0780 2761.09 2570.450 342.620
## ORI_14633_14599 220.9550  629.2340  808.865  174.5330 2317.53 3691.980 272.163
## ORI_14635_14600 282.0600  754.2090  840.659  145.2850 2590.18 2126.120 341.516
## ORI_14639_14602 223.8580  716.4560  637.271   83.6435 1898.33 2048.040 164.282
##                 [,2226]   [,2227] [,2228]  [,2229]  [,2230]  [,2231] [,2232]
## ORI_10219_10218 303.866  685.7520 412.048 569.7560  708.925  842.518 530.838
## ORI_10735_10730 300.247   38.4712 397.008 353.3690  729.630  978.963 333.570
## ORI_14605_14585 246.313   48.1526 399.326 388.9510 1186.580  708.380 483.266
## ORI_14607_14586 263.756  156.0650 357.967 229.5670  920.608  852.834 244.364
## ORI_14609_14587 274.644   76.7442 264.052 374.4690 1049.200  930.966 293.144
## ORI_14617_14591 214.401  546.4060 235.986 233.3810 1200.270  872.130 393.056
## ORI_14623_14594 217.470  227.3200 390.497 298.0880 1113.550  557.690 369.594
## ORI_14629_14597 281.761   68.7221 385.661 383.1180 1066.070  488.822 429.321
## ORI_14631_14598 274.713   45.1649 386.842 428.2810 1276.600  907.894 313.464
## ORI_14633_14599 280.848  124.8050 502.351 238.9400 1060.750 1013.510 447.737
## ORI_14635_14600 254.106  154.3610 409.857 255.5630 1421.980  518.644 348.743
## ORI_14639_14602 293.926   74.4950 459.295 181.5040 1126.420  798.567 414.525
##                 [,2233]  [,2234]   [,2235] [,2236] [,2237]  [,2238]  [,2239]
## ORI_10219_10218 232.167  754.742 1310.4200 290.373 274.422  52.9933 1638.650
## ORI_10735_10730 279.540 1793.620  804.3310 278.793 262.337 170.4190  821.259
## ORI_14605_14585 348.510 1625.170  260.9740 285.546 382.081  53.4055 1280.390
## ORI_14607_14586 259.511 2034.290  597.9040 323.568 428.995  94.6534 2475.380
## ORI_14609_14587 160.504 2507.420  273.3330 418.538 473.640  44.7100 1536.810
## ORI_14617_14591 170.324  928.839 1116.2000 286.068 259.364  42.7449 1059.870
## ORI_14623_14594 428.547  542.913  476.1600 238.818 192.972  39.9610  832.148
## ORI_14629_14597 301.211 3659.090   65.7543 185.632 283.940  48.2282  590.519
## ORI_14631_14598 268.323 2512.060  197.1130 472.754 455.611  40.0839 1158.750
## ORI_14633_14599 307.638  726.170  152.8930 504.579 293.045  43.8374  923.902
## ORI_14635_14600 373.057  743.663  387.0710 440.908 169.401  37.4585  980.518
## ORI_14639_14602 272.324 1833.930  198.1090 164.386 119.199  50.8125  548.607
##                   [,2240] [,2241] [,2242] [,2243]  [,2244]  [,2245] [,2246]
## ORI_10219_10218   82.9982 2318.37 451.533 197.258 323.9920  639.939 103.072
## ORI_10735_10730   69.2352 1498.96 360.669 320.472 128.0530  459.261 256.119
## ORI_14605_14585  171.6590 2125.83 447.478 200.398 224.8420  525.022 184.389
## ORI_14607_14586 1172.5900 2023.46 385.887 208.036 188.3680  504.971 173.894
```

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## ORI_14609_14587  107.5150 2459.36 346.138 343.085 180.0690  339.633 193.022
## ORI_14617_14591   54.5473 2813.14 441.759 142.298 320.9260 1125.270 118.952
## ORI_14623_14594  194.8430 2218.20 387.312 198.477 273.6430  622.269 159.239
## ORI_14629_14597   49.4479 1310.99 469.057 210.365 137.1570  543.767 173.334
## ORI_14631_14598  177.0620 2630.44 361.331 243.899 201.3100  502.703 255.980
## ORI_14633_14599   86.0375 2005.16 397.338 200.400 167.5470  731.759 191.360
## ORI_14635_14600   47.8496 2093.37 385.291 182.543 195.4410  601.457 153.647
## ORI_14639_14602   80.2388 1345.09 316.788 143.242 177.6950  552.226 270.887
##                  [,2247]  [,2248]  [,2249] [,2250] [,2251] [,2252] [,2253]
## ORI_10219_10218  890.995 2709.100 185.3620 228.872 283.088 246.883 538.927
## ORI_10735_10730 1057.000 1626.630 325.0420 353.358 479.355 368.398 457.125
## ORI_14605_14585  959.516 2324.210 396.3120 274.540 384.760 356.088 443.904
## ORI_14607_14586 1069.170 5611.540 232.2310 212.686 356.914 308.101 700.507
## ORI_14609_14587  918.198 3327.830 242.5970 430.008 417.813 408.319 546.129
## ORI_14617_14591  876.968 1296.860 217.2360 269.968 268.094 380.500 502.360
## ORI_14623_14594  767.082 1046.660 177.7100 275.741 397.724 229.935 277.740
## ORI_14629_14597  856.812 1089.940 224.1260 286.087 420.982 414.711 218.304
## ORI_14631_14598  814.950 2599.390 205.0460 374.315 443.255 547.573 372.684
## ORI_14633_14599 1354.180 1185.780 108.6100 313.458 450.058 245.627 391.023
## ORI_14635_14600  996.658 1594.880 175.8960 419.188 544.166 281.034 256.841
## ORI_14639_14602  517.870  936.903 283.3910 314.631 713.447 139.688 156.315
##                  [,2254]  [,2255]  [,2256]  [,2257]  [,2258]  [,2259]  [,2260]
## ORI_10219_10218 1193.210  24.6827 183.1050  266.133 506.6700 399.2470  845.881
## ORI_10735_10730  832.336 234.1960 276.5290  623.387 224.5380 227.2360  714.861
## ORI_14605_14585  972.413  33.3010 135.8570  279.219 420.0770 271.5710  908.133
## ORI_14607_14586  962.224  96.6088 432.1140 1211.040 228.5460 298.0680  593.396
## ORI_14609_14587 1233.050 192.6840 169.3100  691.983 313.9420 218.2900  966.639
## ORI_14617_14591 1128.360  24.6827 104.4370  168.604 275.4800 702.6190  707.164
## ORI_14623_14594  640.403  25.8359 173.2650  168.360 261.9470 464.7240  495.256
## ORI_14629_14597  949.774 397.3830 361.3680 2189.810 157.2590 185.1630  600.744
## ORI_14631_14598  875.076 193.5610 288.9210  979.862 256.1380 136.8630  774.430
## ORI_14633_14599  650.613  24.6827 125.6610  257.653 216.1770 317.5610  410.921
## ORI_14635_14600  557.300  24.6827 136.5260  175.075 283.0510 406.6260  595.391
## ORI_14639_14602  719.165 148.5140 208.5250 1261.980 217.5540 446.3260  629.439
##                 [,2261] [,2262]  [,2263]  [,2264] [,2265]  [,2266] [,2267]
## ORI_10219_10218 383.574 472.337  337.590 286.8350 561.460  502.578 396.934
## ORI_10735_10730 318.617 385.761  743.354 219.8140 367.614  614.213 563.730
## ORI_14605_14585 375.166 384.083  720.736 250.6480 330.848  737.479 455.552
## ORI_14607_14586 347.506 332.861  402.465 183.5800 341.172  716.560 503.191
## ORI_14609_14587 264.635 412.785  537.348 468.5790 466.089  582.401 523.077
## ORI_14617_14591 176.260 696.736  384.326 302.4330 251.960  370.393 305.952
## ORI_14623_14594 382.079 508.642  523.193 253.5670 318.541  426.650 237.166
## ORI_14629_14597 365.762 363.838  737.594  88.5536 298.731  725.654 475.228
## ORI_14631_14598 289.655 399.130  519.960 449.0580 475.972  582.662 428.941
## ORI_14633_14599 423.912 259.227  706.340  91.9981 434.747  601.222 376.406
## ORI_14635_14600 268.076 460.832  719.774 160.1300 405.196  430.877 349.593
## ORI_14639_14602 274.186 186.792  688.412  97.4431 288.195  379.102 701.501
##                  [,2268] [,2269]  [,2270]  [,2271] [,2272]  [,2273]  [,2274]
## ORI_10219_10218  760.044 201.782 296.1710  637.587 616.643 142.8820  755.011
## ORI_10735_10730  906.538 208.735 325.2750  536.821 667.917 185.5180  796.625
## ORI_14605_14585  848.531 308.936 419.2800  537.562 509.456  99.0615  642.403
## ORI_14607_14586  951.269 507.737 257.0610  573.280 559.061 136.6210  537.083
## ORI_14609_14587 1134.450 259.351 446.3460  383.071 456.697 326.9680  986.629
## ORI_14617_14591 1270.720 244.511 220.5940  390.834 342.310 257.5290  976.824
```

```
## ORI_14623_14594  871.582 466.652 633.5620  545.054 710.875 206.3300  616.337
## ORI_14629_14597  717.804 350.611 317.8360  604.866 599.434 180.0170  658.947
## ORI_14631_14598  907.753 341.534 278.9950  464.109 590.415 157.1230  647.632
## ORI_14633_14599  846.422 529.018  95.7892  645.638 622.434 258.7130  775.124
## ORI_14635_14600  999.644 437.626 707.4000  503.941 613.969 312.8040  478.724
## ORI_14639_14602  893.304 655.066 219.8670  442.575 633.859 311.6770  459.986
##                  [,2275] [,2276] [,2277]  [,2278]  [,2279] [,2280]  [,2281]
## ORI_10219_10218  348.632 454.063 345.540 1053.620  42.2835 396.601  24.6827
## ORI_10735_10730  656.136 310.445 497.680  950.422 331.6230 614.332  93.2149
## ORI_14605_14585  573.703 355.854 370.611 1013.880 101.8890 565.531  36.3295
## ORI_14607_14586  755.573 369.965 479.262 1090.850  66.6830 569.950  96.8631
## ORI_14609_14587  719.815 281.607 459.302  817.035 149.5310 805.358  78.7402
## ORI_14617_14591  475.365 214.630 423.427  731.341 119.2780 432.037  24.6827
## ORI_14623_14594  466.533 378.462 442.295 1167.410  95.5916 542.320  24.6827
## ORI_14629_14597  451.589 338.445 223.725 1092.620 109.6790 583.416  77.2034
## ORI_14631_14598  735.156 277.465 426.351 1015.420 161.1960 845.426  69.7277
## ORI_14633_14599  508.359 407.022 320.374 1209.870 222.5150 913.354  57.0300
## ORI_14635_14600  540.759 376.390 468.073 1137.550 209.5900 785.396  30.4112
## ORI_14639_14602  559.618 409.349 424.942  932.364 183.2320 706.227  24.6827
##                  [,2282]  [,2283] [,2284]  [,2285] [,2286]  [,2287]  [,2288]
## ORI_10219_10218  847.513 1322.210 350.703  98.2440 367.646 190.1840  935.675
## ORI_10735_10730 1411.930 2029.930 571.243 106.3110 431.678 189.0710 1188.420
## ORI_14605_14585  719.741 1670.820 542.800 151.1460 396.799 208.2180  915.650
## ORI_14607_14586 1162.740 1506.300 657.707  95.1551 479.346 645.0350  715.060
## ORI_14609_14587 1657.990 1572.020 508.495  71.1241 659.031 441.2450 1078.350
## ORI_14617_14591  847.724 1871.790 393.801  53.4230 503.853 125.7960 1031.110
## ORI_14623_14594  677.285 1423.710 472.141 162.3550 279.748 213.0680  883.107
## ORI_14629_14597 1185.410  934.935 504.356  98.0200 420.784 174.5570  711.913
## ORI_14631_14598  989.496 2030.060 594.649 268.8570 503.578 297.5080 1001.710
## ORI_14633_14599  825.034 1889.170 574.589 121.1180 409.969 194.3890  779.440
## ORI_14635_14600  728.302 1319.970 534.965 333.2470 292.138 251.6760 1053.630
## ORI_14639_14602  264.478 1552.310 647.260 157.2430 307.503 188.0340  498.192
##                  [,2289]  [,2290]  [,2291] [,2292]  [,2293]  [,2294]  [,2295]
## ORI_10219_10218 150.3090  55.5319  815.958 266.599 205.9230  975.980  252.825
## ORI_10735_10730 104.0720 285.4740  908.012 388.002 217.0920  802.578  236.489
## ORI_14605_14585 139.0400 278.6020  949.211 256.537 346.6100  757.129  229.542
## ORI_14607_14586 148.9780 690.0290  704.301 218.308 245.0580  933.509  460.319
## ORI_14609_14587 141.8910 320.2330 1050.470 332.584 210.2560  724.115  158.794
## ORI_14617_14591 138.9750  97.7819  727.770 210.439  43.7213  899.739  175.593
## ORI_14623_14594 183.1340  80.8826  714.305 184.663 461.2160  663.772  238.190
## ORI_14629_14597 211.7540  84.8636  659.031 124.058 272.7970 1048.840  217.862
## ORI_14631_14598 185.0790 267.4120 1123.080 457.683 258.3990  842.029  279.144
## ORI_14633_14599 702.3880 122.1470  691.207 380.359 318.4050  870.798  183.653
## ORI_14635_14600 138.4270 107.5040  789.159 307.623 299.6440  689.139  212.211
## ORI_14639_14602 147.4570  92.7826 1022.390 169.302 227.5670  649.924  264.199
##                  [,2296]  [,2297]  [,2298] [,2299]  [,2300] [,2301]   [,2302]
## ORI_10219_10218 124.0780 125.8500 1701.850 175.555 1518.620 492.254  807.4730
## ORI_10735_10730 431.1700 411.0350 1240.390 272.514 1390.710 205.071  316.1020
## ORI_14605_14585 512.7480 243.3460 2170.430 237.249 1091.200 309.189  881.2380
## ORI_14607_14586 483.2140 113.8090 1716.770 351.890 1037.420 429.281  293.3620
## ORI_14609_14587 878.7730 210.6640 2336.350 365.656 1185.600 468.435  510.9560
## ORI_14617_14591  81.4323  98.9080 1737.440 235.236  955.437 651.720  295.5580
## ORI_14623_14594 195.0740 171.7740 2568.870 168.235  731.914 367.969  312.6320
## ORI_14629_14597 143.1500 226.1280 2556.950 368.601  930.879 208.148  122.1900
```

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## ORI_14631_14598 352.3540 230.6270 1796.050 231.483 1117.470 517.704  194.8580
## ORI_14633_14599 178.0560 265.9460 2210.990 192.403  895.265 421.845   48.9189
## ORI_14635_14600 264.0970 317.2120 2553.170 210.357  821.173 307.519  543.7780
## ORI_14639_14602  75.1816 428.6870 2160.000 230.099 1066.860 181.216   66.2867
##                  [,2303] [,2304]  [,2305]  [,2306] [,2307]  [,2308]   [,2309]
## ORI_10219_10218 204.3770 444.428  87.7790  355.558 279.641  7704.24 2924.1900
## ORI_10735_10730 150.0300 328.188 141.8630  693.301 404.970  9278.84 1084.5800
## ORI_14605_14585 160.1690 413.441  96.3582 1512.750 306.456  8138.39  673.5790
## ORI_14607_14586 218.5040 296.463 189.7390  372.229 318.011 10331.70 1110.6700
## ORI_14609_14587 264.2650 290.056 199.6980 1756.930 460.969  9403.80  510.2890
## ORI_14617_14591 177.9960 293.637  85.6499 1459.470 322.385  8079.52 2734.2900
## ORI_14623_14594 177.2530 451.081 103.4210  835.097 306.432  8694.58 2014.6500
## ORI_14629_14597 197.1100 470.131 112.3240 1636.720 388.118  7449.50  973.9760
## ORI_14631_14598 236.2450 369.447 165.3850 1374.550 615.925  7922.30 1134.6000
## ORI_14633_14599 175.7590 394.098 126.5910 1872.090 492.640 10123.40  789.0120
## ORI_14635_14600 161.0520 392.055 172.3360  703.001 374.848  8563.29 1327.4600
## ORI_14639_14602 175.1470 418.320  93.8667  161.998 304.609  9354.75  623.7720
##                 [,2310] [,2311] [,2312] [,2313] [,2314]  [,2315] [,2316]
## ORI_10219_10218 1372.43 1895.12 364.355 4040.36 4138.05 1012.700 253.429
## ORI_10735_10730 2470.08 2273.11 489.510 5217.66 3214.74  681.574 132.746
## ORI_14605_14585 1700.15 2433.34 379.413 4867.83 3437.29  560.553 290.258
## ORI_14607_14586 2996.74 2326.20 349.426 5226.01 3947.36  992.790 419.754
## ORI_14609_14587 2136.31 2328.85 507.372 4943.76 3860.10  547.822 271.523
## ORI_14617_14591 2214.06 2236.67 503.257 5911.69 4340.31 1564.080 389.684
## ORI_14623_14594 1945.03 2598.81 353.217 5552.17 4365.61 1105.960 699.198
## ORI_14629_14597 1922.69 2456.67 249.945 5604.48 4434.53  544.310 342.140
## ORI_14631_14598 2294.89 2028.79 601.731 4347.98 3175.85  487.179 426.492
## ORI_14633_14599 2202.84 2222.89 527.744 6203.31 4944.45  438.761 347.496
## ORI_14635_14600 3128.45 2706.33 471.767 6228.41 4651.10  638.329 310.319
## ORI_14639_14602 2822.47 2513.34 461.128 5896.47 5041.93  578.166 452.673
##                  [,2317]  [,2318]  [,2319]   [,2320]  [,2321]  [,2322]  [,2323]
## ORI_10219_10218  642.148  266.099 101.0210 1338.9300 1349.920 368.7300 184.5450
## ORI_10735_10730 1655.580  632.898 369.7750  154.4240  944.734 701.9150 188.4560
## ORI_14605_14585 2721.560  494.858 311.7450 1965.5900  562.780 509.2330 128.9950
## ORI_14607_14586 2310.800  692.454 163.4570  502.2010 1007.980 329.8440  93.6063
## ORI_14609_14587 3401.890  716.527 463.9300 1073.4900  923.474 376.6110 145.0890
## ORI_14617_14591  384.373  290.380 103.8890  921.4910 1116.000 408.7400 343.0920
## ORI_14623_14594  281.773  265.731 113.8990 1106.4200 1166.270 208.7350 225.8630
## ORI_14629_14597  188.135  920.342 363.2630  253.9260  557.368 244.4980 181.9180
## ORI_14631_14598 2610.760  901.561 284.2660  923.9420  733.838 432.2810 164.6190
## ORI_14633_14599 1074.630  181.089 236.3860  904.1770  619.246 302.7760 223.0760
## ORI_14635_14600  653.244  140.337 133.3330 1152.2200  517.191 876.5380 258.9550
## ORI_14639_14602  503.843  303.285  64.4244  103.2530  268.523 529.4770 128.4500
##                  [,2324]  [,2325]  [,2326]  [,2327]  [,2328]   [,2329] [,2330]
## ORI_10219_10218  427.801 341.0960 259.5260 1469.190 159.8550  190.2790 291.728
## ORI_10735_10730  647.176 224.6260 434.7890 1005.020 144.8690 3373.9600 268.126
## ORI_14605_14585  317.104 412.4300 390.2890 1371.130 129.3050 5182.9600 283.238
## ORI_14607_14586  607.105 204.5710 146.5290 1027.230 255.8050  603.2210 376.731
## ORI_14609_14587  784.617 178.3630 386.3730 1138.610  81.6042 7494.7900 358.598
## ORI_14617_14591  472.483 440.5360 338.2370 1219.200 153.5520 1149.8100 274.608
## ORI_14623_14594  291.367 546.5960 325.0890  872.160 125.7090 2453.7400 227.886
## ORI_14629_14597  818.023 373.7950 293.9020 1458.810 122.1410  429.5710 183.581
## ORI_14631_14598  773.016 317.8810 176.2430 1502.130 147.2230 3029.8800 292.759
## ORI_14633_14599  180.200 174.3920 444.4750  872.127 106.7280 1713.2200 194.399
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## ORI_14635_14600  201.104 714.8030 315.8370  997.175  92.3515 1727.9800 183.201
## ORI_14639_14602  380.656 130.7470 618.9380  899.319  95.1350   24.6827 150.311
##                  [,2331]   [,2332]   [,2333]  [,2334]  [,2335] [,2336] [,2337]
## ORI_10219_10218 1398.500  539.3580 1444.3300 125.5610 1432.550 161.508 358.551
## ORI_10735_10730  801.992  295.2960  206.5010 362.8650  376.489 293.195 473.931
## ORI_14605_14585 1189.140  131.1430  308.8020 118.8790  385.888 237.730 419.331
## ORI_14607_14586 1662.830 1271.1500 1287.4300 267.8170  490.692 781.573 424.624
## ORI_14609_14587 1602.380  226.3460  796.7500 164.7650  418.209 280.872 390.901
## ORI_14617_14591  543.373   57.2717  636.8850  77.0686 1074.260 119.558 388.105
## ORI_14623_14594  556.286   34.7281  427.8570  63.8320  773.986 149.722 354.455
## ORI_14629_14597 1500.850  179.6880  337.6350 136.8820  252.928 192.642 509.800
## ORI_14631_14598  945.318   91.9965  545.5150 218.1730  445.212 318.363 458.767
## ORI_14633_14599  615.751   58.4929  150.1860 107.1370  922.979 208.083 630.123
## ORI_14635_14600  472.749   39.2323  200.2690  62.0516  798.237 146.140 457.876
## ORI_14639_14602 1248.550  187.7420  349.7050  88.0167  553.129 284.966 431.062
##                  [,2338]  [,2339] [,2340]  [,2341] [,2342] [,2343] [,2344]
## ORI_10219_10218  861.041 230.0140 248.371  494.391 368.767 481.248 227.557
## ORI_10735_10730  739.426 336.6160 354.509  851.821 636.466 515.037 430.032
## ORI_14605_14585 1109.100 144.6050 274.900  686.741 437.764 611.511 256.553
## ORI_14607_14586  932.156 276.4300 307.863  633.702 522.922 477.682 158.743
## ORI_14609_14587 1132.940 263.0030 308.812  694.351 489.239 648.532 240.633
## ORI_14617_14591  901.161 261.5560 256.538  523.361 391.517 493.271 173.271
## ORI_14623_14594  998.426 169.5670 181.915  522.464 413.618 514.351 314.199
## ORI_14629_14597 1003.800 136.3040 289.068 1034.350 640.740 470.072 295.724
## ORI_14631_14598 1131.260 116.8250 281.695  960.543 520.422 547.056 239.146
## ORI_14633_14599  940.526 306.1190 282.998  722.098 619.792 596.915 224.250
## ORI_14635_14600  733.111 152.6410 252.857  939.787 544.961 802.004 291.838
## ORI_14639_14602  629.362 230.0180 384.482  717.898 589.832 383.557 314.922
##                  [,2345] [,2346]  [,2347] [,2348]  [,2349] [,2350]  [,2351]
## ORI_10219_10218 441.2940 471.622  775.976 151.639  911.099 455.419  771.963
## ORI_10735_10730 199.8370 591.498  907.139 147.976  770.019 378.863  566.377
## ORI_14605_14585 274.5880 528.486  921.934 195.519  724.389 482.150  758.540
## ORI_14607_14586 269.5090 526.203 1071.190 165.723 1061.210 459.100 1048.210
## ORI_14609_14587 338.4500 560.456 1039.950 186.397 1191.750 570.758  880.717
## ORI_14617_14591 261.2220 655.412  910.073  85.784  784.571 499.293  732.794
## ORI_14623_14594 351.8710 711.018  739.182 142.487  544.838 438.138  543.940
## ORI_14629_14597 310.0180 575.959  752.005 219.380  369.405 454.216 1128.660
## ORI_14631_14598 364.9180 590.977 1179.350 195.626 1110.090 707.481  800.280
## ORI_14633_14599 261.9010 675.187 1148.970 200.917  603.117 458.161  665.867
## ORI_14635_14600 215.6380 579.190 1154.590 225.490  791.995 534.172  817.546
## ORI_14639_14602  66.6322 513.159 1483.010 225.938 1034.440 421.544  656.674
##                  [,2352]  [,2353]  [,2354]  [,2355]  [,2356]  [,2357]  [,2358]
## ORI_10219_10218  703.381 1203.650  765.932 1071.460 1133.060 1943.770 1043.530
## ORI_10735_10730 1149.760 1324.230 1047.870 1209.070 1586.070 1996.810 1751.820
## ORI_14605_14585  976.801 1299.350  897.147 1061.900 1337.930 1685.280 1324.400
## ORI_14607_14586 1048.810 1423.810  973.801 1352.580 1653.150 2092.000 1776.200
## ORI_14609_14587  947.845 1450.910 1107.290 1226.160 1716.050 2022.720 1561.600
## ORI_14617_14591  849.249 1554.900  894.536 1230.000 1887.490 2915.650 1312.940
## ORI_14623_14594  698.080 1559.750  673.211  682.286 1345.760 1864.190  929.415
## ORI_14629_14597 1054.620 1225.750  827.862 1219.700 1425.930 1547.120 1029.760
## ORI_14631_14598 1328.040 1490.520  978.262 1243.610 1420.030 2097.070 1604.960
## ORI_14633_14599  969.183 1672.900 1441.600 1603.320 1638.980 2227.130 1453.140
## ORI_14635_14600 1308.470 2311.710 1648.900 1014.630 2054.520 2674.310 1334.000
## ORI_14639_14602  715.604 1725.810 1121.970 1829.720 1765.880 2656.340 1477.190
```

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##                  [,2359]  [,2360] [,2361] [,2362] [,2363] [,2364]  [,2365]
## ORI_10219_10218 2218.94  606.059 2414.08 4292.12 1853.03 290.563  53.8899
## ORI_10735_10730 1079.18 1308.450 4250.10 2326.80 1938.80 476.395 463.1070
## ORI_14605_14585 1385.55  674.675 3260.37 2830.37 1562.24 326.764 194.9300
## ORI_14607_14586 2239.53  792.886 4764.55 2763.49 1643.60 561.657 315.0910
## ORI_14609_14587 2108.38  961.586 3525.34 3279.93 1612.07 558.568 297.6660
## ORI_14617_14591 2554.77  692.918 2864.72 3916.67 2109.95 365.104  54.4821
## ORI_14623_14594 1412.27  703.550 3118.38 2962.13 1683.15 404.084 132.1600
## ORI_14629_14597 1426.55 1065.490 2943.29 3262.96 1741.09 341.393 130.8260
## ORI_14631_14598 2281.19 1141.590 4336.26 1886.37 1318.83 550.845 397.0050
## ORI_14633_14599 2023.10  881.193 4166.79 3398.98 1938.53 716.531 322.8390
## ORI_14635_14600 2313.76  809.652 4058.51 3501.62 2002.71 505.993 275.4850
## ORI_14639_14602 2259.45  983.016 2794.37 3195.96 2141.52 591.249 516.2060
##                  [,2366] [,2367]  [,2368] [,2369]  [,2370]   [,2371] [,2372]
## ORI_10219_10218 313.8530 168.898  544.077 2311.57 1019.440  209.5440 213.021
## ORI_10735_10730 320.4100 341.144 1767.420 2966.90  484.678  936.5760 538.542
## ORI_14605_14585 359.2970 240.109 1144.840 2861.66  952.253   24.6827 499.581
## ORI_14607_14586 378.1500 440.491  919.561 2902.68  858.571  907.3460 546.109
## ORI_14609_14587 247.1010 319.051 1031.130 3213.06 1020.630  147.0680 612.856
## ORI_14617_14591 365.6930 178.077  961.375 2325.51 1029.050  596.2470 689.326
## ORI_14623_14594 383.1050 235.464  738.723 2243.12 1203.360  547.3420 350.178
## ORI_14629_14597 348.6570 280.907 1508.490 2894.71  811.004  661.1070 574.397
## ORI_14631_14598 227.2690 346.610 1279.350 3180.66  970.808  387.2340 576.224
## ORI_14633_14599 431.4970 343.204  883.146 3137.77  867.247  591.8140 435.601
## ORI_14635_14600 364.0360 279.993  878.034 2376.77  937.421  664.8620 362.970
## ORI_14639_14602 378.8970 360.186  911.983 2693.88  533.710  389.1640 331.361
##                  [,2373]  [,2374]   [,2375]  [,2376] [,2377]  [,2378] [,2379]
## ORI_10219_10218  301.065 249.2070  558.6480 176.2610 267.545  80.5519 415.858
## ORI_10735_10730  956.962  29.8491   94.6835 234.1760 348.219 155.9280 288.526
## ORI_14605_14585  622.595  25.2909  184.4220 219.6280 343.285 118.5160 375.311
## ORI_14607_14586  735.798  80.4213  208.0740 284.5160 287.136 236.9170 222.796
## ORI_14609_14587  916.487  56.5833  175.7160 417.2000 425.252 243.4320 229.264
## ORI_14617_14591  339.455 155.8420  674.4670 129.8360 191.801  46.6645 232.814
## ORI_14623_14594  413.390  90.0543  359.8640 107.3430 290.932  55.5786 371.681
## ORI_14629_14597  751.812  59.2867   43.7801 179.4550 257.036  86.9404 409.205
## ORI_14631_14598  804.449  43.0928  120.2290 244.4500 311.708 205.1060 322.385
## ORI_14633_14599  444.170  53.8295  395.3730 112.0160 337.325  90.0946 374.196
## ORI_14635_14600  601.491  60.0907  580.5850 235.3770 454.614  62.1101 366.833
## ORI_14639_14602  482.115  56.0370  112.4850 156.0930 310.166  37.7989 273.862
##                  [,2380]  [,2381]  [,2382]   [,2383] [,2384]  [,2385]  [,2386]
## ORI_10219_10218  946.613 176.0460 145.5910  813.0640 440.643  223.091  593.905
## ORI_10735_10730 1031.930 649.4440 212.0160  515.0320 258.994 1228.160  329.751
## ORI_14605_14585  609.809 278.7140 232.5410  441.2860 453.752  549.336 1000.860
## ORI_14607_14586  538.267 540.5560 350.6680  370.6240 369.206  525.987  468.570
## ORI_14609_14587  567.566 509.4500 227.1600  336.2810 457.731 1126.340  463.013
## ORI_14617_14591  635.161 212.3440 219.4460  651.6970 594.204  234.876  357.236
## ORI_14623_14594  588.337  88.6795 321.8690  476.0550 269.554  517.435  323.330
## ORI_14629_14597  597.605 401.2170 221.8120   84.0918 284.415  583.981  524.553
## ORI_14631_14598  377.524 651.4750 412.1130  163.0790 318.548  571.576  381.989
## ORI_14633_14599  672.451 206.7870 414.5190  772.1370 387.428  250.509  239.185
## ORI_14635_14600  704.312 156.4190 357.9550  546.6610 343.842  609.663  467.245
## ORI_14639_14602  634.441 324.5130 128.9180  633.7030 251.709  205.987  212.294
##                  [,2387]  [,2388]  [,2389]  [,2390] [,2391]  [,2392] [,2393]
## ORI_10219_10218  159.3000 168.1540 1388.320 174.3950 322.900 114.6650 153.545
```

```
## ORI_10735_10730  340.1100  24.6827 1227.780 347.1950 413.647 358.1050 226.917
## ORI_14605_14585  106.3980  24.6827 1850.730 110.1570 214.436 221.4510 209.829
## ORI_14607_14586  160.1870  27.5961 1373.220  47.6541 305.890 391.1990 204.897
## ORI_14609_14587  544.8610  67.7604 1895.930 125.6110 431.491 246.7490 211.951
## ORI_14617_14591  261.0750 272.2070 1489.810  63.6880 250.606 107.5280 182.737
## ORI_14623_14594  136.7830  24.6827 1360.080  71.9039 212.115 159.0700 140.604
## ORI_14629_14597  525.0020  24.6827 2364.260 101.9340 213.328 346.5910 203.710
## ORI_14631_14598   30.1862  24.6827 2172.890 181.8200 299.082 333.5840 257.687
## ORI_14633_14599   72.2078  24.6827 1875.200  72.1463 464.590 248.0920 245.626
## ORI_14635_14600   57.6515  24.6827 1475.250  80.2703 286.212 132.9680 274.339
## ORI_14639_14602   95.6566  24.6827 1713.180 150.0480 107.320 225.4700 244.561
##                  [,2394] [,2395] [,2396]  [,2397]  [,2398]  [,2399]  [,2400]
## ORI_10219_10218  46.5196 309.195 391.741  24.6827 197.7370 259.7980 164.3820
## ORI_10735_10730  79.7774 407.194 352.382  89.4755 268.3060 165.8840 174.4930
## ORI_14605_14585  62.3970 341.889 432.310  56.2332 187.0110 280.3660 179.7350
## ORI_14607_14586  97.0673 476.240 523.449 155.0100 146.0620 221.4330 234.5490
## ORI_14609_14587 111.4640 582.512 710.496 129.3090 257.1730 274.0280 166.5510
## ORI_14617_14591  29.5779 309.603 337.096  24.6827 128.5770 214.7860 118.9070
## ORI_14623_14594  50.7293 306.916 301.270  27.9126 117.2160 218.7340 161.0400
## ORI_14629_14597  60.5733 386.333 177.640  70.8884 146.0590 188.8110 302.0160
## ORI_14631_14598  86.5126 483.899 517.699 177.2970 125.0980 139.7330 151.1580
## ORI_14633_14599  98.9969 397.243 282.364  24.6827 154.1120 141.4250 252.8040
## ORI_14635_14600  71.4523 354.835 185.027  50.7150 129.1380 212.5890 186.2270
## ORI_14639_14602  44.4626 323.334 191.043  24.6827 100.0270 163.9730 160.0370
##                   [,2401] [,2402]   [,2403]  [,2404]  [,2405]  [,2406]  [,2407]
## ORI_10219_10218  327.1260 281.819  265.4810  81.7819  811.575 352.9520  42.4268
## ORI_10735_10730  738.6130 459.286 1693.6900  95.8257  672.056  37.2306 292.9150
## ORI_14605_14585  463.9070 311.191  632.1860  39.6743  580.784 154.0910 192.4260
## ORI_14607_14586  826.8290 483.160 1650.3800 265.0110  569.531 175.8200  83.2430
## ORI_14609_14587 1403.1900 243.565 1656.7700 227.3860  871.033 315.0620 169.1360
## ORI_14617_14591  212.6690 265.012   96.2728  27.5085  600.816 388.1510  24.6827
## ORI_14623_14594  344.3340 310.553  199.3030  27.8529  738.167 380.3260  33.5060
## ORI_14629_14597  626.4940 456.079  666.4980  52.6073  753.136  43.3264 359.8590
## ORI_14631_14598 1403.7000 417.412 1132.0100 145.5650 1087.560  53.8816 164.2480
## ORI_14633_14599  592.8670 194.473   67.0793  69.1950  706.621  78.5328 175.6400
## ORI_14635_14600  276.9770 205.478   72.1316  56.2067  852.186 156.4540 197.2940
## ORI_14639_14602  557.0970 666.966  203.0590  36.3672  592.280  39.8638 514.8030
##                   [,2408]  [,2409]  [,2410]   [,2411] [,2412]  [,2413]  [,2414]
## ORI_10219_10218  186.1960 3510.320 240.1800  134.7550 3090.88 2706.130  78.6385
## ORI_10735_10730  763.5520 1039.390 258.2750  462.3820 3118.89 1477.460 204.9940
## ORI_14605_14585  641.9800  717.552 217.7350  276.5180 2570.59  750.171  64.6290
## ORI_14607_14586  414.7670 1623.180 195.1570  636.8050 3554.58 1300.330 114.8680
## ORI_14609_14587  510.9730  741.841 224.3720  314.3010 3802.03 1170.410  71.1678
## ORI_14617_14591  388.0000 2580.680 305.4540  149.7340 3422.69 2543.160  51.8295
## ORI_14623_14594  324.5740 2103.260 185.4190  125.9090 2466.62 1720.030  57.9826
## ORI_14629_14597  376.8290  804.698 196.4570  211.4210 4050.13 2540.370 141.5200
## ORI_14631_14598  390.7540  927.586 250.6360  345.6620 4008.96  793.433 119.2190
## ORI_14633_14599  924.2470 1203.970 377.2970  287.5260 2422.38  976.011  70.0405
## ORI_14635_14600  451.7830 1148.730 193.0630  150.1990 2553.99 1571.530  69.4061
## ORI_14639_14602  435.1330  941.901 690.7340  209.8340 2493.38  887.250 117.6920
##                 [,2415]   [,2416] [,2417]  [,2418]  [,2419] [,2420]  [,2421]
## ORI_10219_10218 282.406 2358.7500 357.910  998.474  500.923 250.309 213.6130
## ORI_10735_10730 277.369   81.0541 409.711  930.163  923.575 335.607  78.0457
## ORI_14605_14585 315.079 2808.3800 389.706  752.134  591.961 419.575  87.5942
```

```
## ORI_14607_14586 321.193 1023.4900 379.962 1496.150  686.844 473.070 123.8490
## ORI_14609_14587 289.486 1135.3700 230.469 1338.440  805.551 519.373 128.3040
## ORI_14617_14591 138.264 1290.3500 384.907 1398.640  665.150 234.879 215.1790
## ORI_14623_14594 260.074  938.4770 284.722  959.101  571.317 269.611 131.4710
## ORI_14629_14597 293.094  376.4270 146.320 1035.400  238.593 502.382 106.5350
## ORI_14631_14598 235.980  459.0200 531.531  936.579  739.361 490.881  70.9495
## ORI_14633_14599 305.448  240.4870 306.759  782.953  592.468 292.500 101.1330
## ORI_14635_14600 349.241 1204.0500 372.412  645.470  698.878 251.819 140.2510
## ORI_14639_14602 283.732  250.4050 205.567 1038.630  639.984 258.265 109.5740
##                  [,2422] [,2423] [,2424] [,2425]  [,2426]   [,2427]  [,2428]
## ORI_10219_10218  674.755 331.449 304.149 323.129 1222.580 1578.5000 1590.570
## ORI_10735_10730  343.584 468.944 369.274 314.989 2099.730  226.6880 1076.780
## ORI_14605_14585  401.599 260.883 305.443 388.146 1337.350  682.9100 1610.280
## ORI_14607_14586  633.171 433.723 246.159 299.786 2476.550  690.1090 1463.490
## ORI_14609_14587  443.396 401.409 387.325 433.865 1981.790  468.5490 1580.140
## ORI_14617_14591  740.590 197.496 189.071 325.213 1492.550 1409.3800 1058.260
## ORI_14623_14594  461.172 158.527 159.934 286.029 1796.270  957.3580 1076.890
## ORI_14629_14597  476.260 670.659 190.134 481.864 1662.830  258.7720  766.519
## ORI_14631_14598  396.537 378.689 308.996 306.522 2475.560  249.4540 1160.100
## ORI_14633_14599  491.644 261.414 308.840 494.471 1636.960  355.6190 1861.540
## ORI_14635_14600  444.533 215.299 292.611 499.315 1081.210  565.4480 1098.870
## ORI_14639_14602  304.328 531.782 303.553 369.721 1202.200  383.8900  803.036
##                  [,2429] [,2430]   [,2431] [,2432]  [,2433] [,2434]  [,2435]
## ORI_10219_10218 664.4710 390.715 1017.1800 493.109  88.8544 340.177 664.2600
## ORI_10735_10730 426.0610 269.273  150.1050 380.204 146.2550 241.754 240.3830
## ORI_14605_14585 453.5090 467.209  316.9560 391.105  81.4271 201.213  73.6096
## ORI_14607_14586 786.1380 323.554  532.1020 216.018 126.2620 224.104 342.4650
## ORI_14609_14587 538.7080 215.660  391.1510 234.895  83.5058 238.684 540.8720
## ORI_14617_14591 576.1720 386.109  940.8490 221.696  68.6833 200.347 516.3070
## ORI_14623_14594 305.4300 383.065  775.0560 310.863 124.0450 325.366 377.4440
## ORI_14629_14597  75.4385 409.401  372.4130 303.844 338.8860 381.263 231.1940
## ORI_14631_14598 252.0410 242.350  281.3820 282.568 147.5550 280.148 337.0950
## ORI_14633_14599 249.8870 406.501  378.3270 493.421  88.7348 370.863 148.9590
## ORI_14635_14600 365.8380 475.753  414.0900 402.840  97.0025 379.950 121.6170
## ORI_14639_14602 247.8650 352.185  229.7560 444.934 122.8270 421.729  44.2860
##                   [,2436] [,2437]   [,2438]  [,2439] [,2440]  [,2441]  [,2442]
## ORI_10219_10218  381.9250 211.182  815.5940 1600.480 308.331  491.785  832.782
## ORI_10735_10730  496.4120 277.063   62.0328  738.914 796.969  930.263  799.534
## ORI_14605_14585  587.0140 266.555  100.6790  785.042 579.343  667.308  738.641
## ORI_14607_14586  171.3210 179.198  366.5550 1119.940 650.834  862.706  529.563
## ORI_14609_14587  134.4970 163.211  151.1510  671.015 581.082  630.284  956.840
## ORI_14617_14591  493.6410 198.191  877.0120  560.777 713.150  532.111  993.972
## ORI_14623_14594  584.7070 238.321  347.5960  770.770 479.952  660.254  781.383
## ORI_14629_14597  155.5610 443.640   97.6390  576.201 633.904 1359.530  558.870
## ORI_14631_14598  251.1920 262.707   94.9677  837.304 549.590  614.660  779.726
## ORI_14633_14599  538.7400 293.278  147.0990  950.576 390.788 1032.590  785.356
## ORI_14635_14600  598.8880 294.153  258.2030  489.488 440.284  879.526 1079.200
## ORI_14639_14602  145.3530 415.321  209.7380  355.390 745.430 1178.860  990.327
##                  [,2443] [,2444] [,2445]  [,2446] [,2447] [,2448] [,2449]
## ORI_10219_10218 328.4400 220.923 316.945  978.956 361.951 293.884 459.783
## ORI_10735_10730 432.5710 184.201 438.836  615.674 276.365 530.532 339.576
## ORI_14605_14585 436.1330 244.925 428.840  774.060 409.629 490.917 553.944
## ORI_14607_14586 144.5390 159.768 399.291  920.531 207.751 701.695 368.188
## ORI_14609_14587 253.1040 176.628 453.207  884.617 292.980 638.443 272.079
```

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## ORI_14617_14591 407.8200 108.735 391.293 1357.110 287.315 330.296 294.957
## ORI_14623_14594 305.7480 208.688 263.990  795.001 314.819 294.435 663.759
## ORI_14629_14597 662.6540 211.768 456.444  685.392 403.815 172.682 498.549
## ORI_14631_14598 266.0700 190.641 510.826  674.355 392.795 494.025 418.352
## ORI_14633_14599 407.5790 189.465 558.247  682.550 295.355 510.834 426.035
## ORI_14635_14600 225.9480 186.750 467.574  680.363 222.853 310.004 493.809
## ORI_14639_14602 518.2860 213.999 512.235  289.037 236.472 361.559 388.810
##                 [,2450]  [,2451]  [,2452]   [,2453] [,2454] [,2455] [,2456]
## ORI_10219_10218 288.481 194.2610  634.447  627.1960 637.680 305.138 198.492
## ORI_10735_10730 500.347 445.2920  626.000  176.4160 802.981 374.159 320.900
## ORI_14605_14585 338.349 250.8050  837.977  686.1240 756.149 455.273 311.255
## ORI_14607_14586 226.741 286.1780  643.786  147.8150 653.019 412.713 319.393
## ORI_14609_14587 299.373 624.7630 1174.270  188.6730 747.746 554.642 378.542
## ORI_14617_14591 289.666 102.7170  551.304  701.2720 750.606 361.759 396.986
## ORI_14623_14594 232.472 132.4120  353.679  177.2470 642.267 421.262 275.611
## ORI_14629_14597 354.318 462.8380  550.040  116.6790 628.404 262.494 558.711
## ORI_14631_14598 272.861 245.8740  864.328   92.8653 794.953 510.500 381.281
## ORI_14633_14599 341.068 169.6640  697.813  104.4970 720.099 345.369 489.243
## ORI_14635_14600 276.912 117.1390  547.215  410.5410 927.030 538.047 382.123
## ORI_14639_14602 193.801  87.2864  293.664  772.5940 886.479 246.575 391.947
##                  [,2457]  [,2458] [,2459] [,2460] [,2461]  [,2462]  [,2463]
## ORI_10219_10218 172.3560  302.260 1738.69 233.491 238.810  307.712 1286.200
## ORI_10735_10730 199.5990  621.019 1947.72 174.438 205.235  851.310 1171.830
## ORI_14605_14585 246.8740  494.518 1901.92 278.759 256.081  634.225 1392.180
## ORI_14607_14586 297.9600  255.187 1829.68 184.520 261.967  601.028 1145.630
## ORI_14609_14587 290.0610  736.575 2683.33 343.490 222.856  948.057 1600.680
## ORI_14617_14591 373.2250  388.185 1936.52 103.716 208.325  303.244  973.589
## ORI_14623_14594 281.2250  400.149 2263.03 110.296 314.288  387.849  834.365
## ORI_14629_14597 207.7610  449.661 2127.08 334.672 407.436 1340.070  896.579
## ORI_14631_14598 243.0190  650.470 2149.99 302.046 370.874  749.011 1359.580
## ORI_14633_14599 273.4360  258.134 2770.37 201.339 245.335  554.225  993.288
## ORI_14635_14600 384.2690  527.213 2194.73 115.654 366.713  425.214  929.909
## ORI_14639_14602 231.9240  414.723 1875.30 160.410 291.854  935.638 1362.200
##                  [,2464] [,2465] [,2466] [,2467]  [,2468] [,2469]  [,2470]
## ORI_10219_10218  40.9145 478.122 164.127 639.038  79.0132 377.113  652.266
## ORI_10735_10730 185.6370 386.571 546.104 795.834  71.0884 327.071  800.385
## ORI_14605_14585  48.6510 379.955 208.008 640.869  68.3169 390.719  688.389
## ORI_14607_14586 192.1430 392.300 176.762 355.180  76.7236 370.187  682.653
## ORI_14609_14587 170.0570 374.787 381.913 564.679 152.0440 478.421 1103.890
## ORI_14617_14591  25.3661 172.047 218.506 420.553  70.4226 400.245  914.039
## ORI_14623_14594  28.9976 468.662 141.902 539.571  75.7765 254.378  483.907
## ORI_14629_14597  54.5702 498.067 203.626 443.948  61.1162 390.298  989.055
## ORI_14631_14598 117.6050 334.971 340.639 544.125 176.4660 548.594 1334.400
## ORI_14633_14599  24.6827 443.175 153.943 676.143  36.5497 332.698  676.000
## ORI_14635_14600  29.5671 396.218 142.962 490.382  54.9913 340.223  783.895
## ORI_14639_14602 155.9880 453.004 158.135 463.597  24.6827 453.816  777.562
##                 [,2471] [,2472] [,2473] [,2474]  [,2475]   [,2476]  [,2477]
## ORI_10219_10218 327.042 603.294 443.899 330.758  196.219  355.1020 429.5300
## ORI_10735_10730 379.665 402.826 476.337 220.362  572.101  577.8830 211.6020
## ORI_14605_14585 400.265 494.953 466.739 254.885  448.398  386.5820 651.2700
## ORI_14607_14586 427.345 460.897 596.101 710.423  271.346  696.8240 352.1650
## ORI_14609_14587 369.979 458.293 487.320 462.550  340.372  440.3910 314.9310
## ORI_14617_14591 313.478 397.322 326.639 321.479  799.948  381.2570 146.0120
## ORI_14623_14594 360.117 452.236 443.198 295.478 1017.880  223.7790 309.5830
```

```
## ORI_14629_14597 397.007 279.781 482.846 216.962  550.526 1712.6100  70.3593
## ORI_14631_14598 518.699 502.176 543.842 348.745  509.145  497.8080 269.1580
## ORI_14633_14599 610.563 329.178 383.973 308.839 1032.150  220.7630 263.0630
## ORI_14635_14600 459.834 301.235 392.897 315.511 1403.860  156.9140 387.9850
## ORI_14639_14602 393.135 179.800 323.056 254.581  729.720 1072.2500 146.0330
##                   [,2478] [,2479]  [,2480]  [,2481]  [,2482]  [,2483]  [,2484]
## ORI_10219_10218 1112.6800 356.357 176.4370  773.174 117.3500 1055.230 207.2230
## ORI_10735_10730  246.0920 268.634 339.5700  590.553  25.5326 1206.270 334.8140
## ORI_14605_14585 1263.3500 259.177 344.8100  486.076 265.6110 1361.850 179.6660
## ORI_14607_14586  867.7340 607.807 223.7920  587.947  97.8664 1399.780 187.9950
## ORI_14609_14587  940.0770 521.672 424.7480  504.691 161.9790 1535.880 221.2670
## ORI_14617_14591  504.8760 175.481 352.1770  671.226 261.0010 1214.000 178.3700
## ORI_14623_14594  481.7020 187.672 135.9520  614.736 173.5140 1170.470 197.9130
## ORI_14629_14597  217.8580 201.906 145.2780  324.435 171.3920 1397.110 310.8500
## ORI_14631_14598  491.8590 274.923 279.3250  315.641 160.2470 1598.230 212.2790
## ORI_14633_14599  405.4690 232.188 243.2580  714.305 174.9780 1461.700 343.7930
## ORI_14635_14600  710.4520 174.161 215.9840  415.186 128.3200 1305.930 243.6110
## ORI_14639_14602   99.4495 129.902 103.4290  474.911  64.9498 1434.290 466.3550
##                 [,2485] [,2486] [,2487] [,2488]  [,2489]  [,2490]  [,2491]
## ORI_10219_10218 510.715 266.076 278.743 235.102 218.5430  613.767  302.376
## ORI_10735_10730 526.899 417.432 403.848 414.084 218.9840  899.182  396.971
## ORI_14605_14585 472.099 301.214 364.682 326.000 173.9860  530.487  320.229
## ORI_14607_14586 427.487 297.012 546.235 419.847 135.5950  545.009  286.410
## ORI_14609_14587 374.356 423.097 332.255 485.567 145.6750  744.134  327.353
## ORI_14617_14591 364.326 280.563 266.716 281.881 156.1990  879.215  237.020
## ORI_14623_14594 508.881 227.718 421.296 197.776 125.9290  524.161  307.567
## ORI_14629_14597 511.778 210.366 325.679 442.968 195.6670  445.742 1095.490
## ORI_14631_14598 602.183 198.678 384.570 501.117 178.0230  752.128  382.234
## ORI_14633_14599 529.029 330.879 317.769 354.520 146.6550  685.916  285.910
## ORI_14635_14600 579.378 373.421 387.631 219.106 121.7960 1036.680  340.386
## ORI_14639_14602 572.736 220.372 441.720 349.605 160.1010  346.528  555.069
##                  [,2492]  [,2493]  [,2494]  [,2495]  [,2496]  [,2497]  [,2498]
## ORI_10219_10218  85.9584 100.0430  29.3683  66.4158  56.6992  734.340  287.643
## ORI_10735_10730  94.3598 197.5860 200.8140 293.7980  91.3265  452.879  669.215
## ORI_14605_14585 353.0910 254.5980  82.8255 135.7650  84.8436  782.901  568.034
## ORI_14607_14586 189.0190 454.7260  25.1176 357.6050 132.6750  607.100 3185.980
## ORI_14609_14587 250.4960 954.9480 119.2500 336.2430 207.1750  484.683 1507.980
## ORI_14617_14591 176.1040 171.9650  47.4214  80.8426  34.7379  677.673  193.660
## ORI_14623_14594 457.9440  83.7433 115.4410  24.6827  59.9141  923.810  316.407
## ORI_14629_14597  57.8883 322.9180  68.0043 204.8200  96.9534  993.807  256.569
## ORI_14631_14598 298.0890 246.4700 127.6730 380.7850 171.0690  732.070 2842.460
## ORI_14633_14599 577.1880  71.2549 107.0570  55.7104  43.1025  824.816  955.899
## ORI_14635_14600 587.0000  46.5509 207.5740  80.6341  59.9088  757.523  467.958
## ORI_14639_14602  98.4630 255.6390 340.5820  38.1099  99.2980  750.724  353.893
##                  [,2499]  [,2500]   [,2501] [,2502]  [,2503]  [,2504]  [,2505]
## ORI_10219_10218  62.0429  591.750  137.3700 298.979  730.953 731.4550 214.7770
## ORI_10735_10730 418.1390  651.335   79.6580 215.177  466.626  50.7393 124.9410
## ORI_14605_14585 196.5350  663.467  151.1370 306.986  639.611 614.1990 135.7630
## ORI_14607_14586 246.7930 1118.020  143.3480 207.072  806.817  76.8999 101.3230
## ORI_14609_14587 425.4030 1509.880  174.1650 343.061  482.105 177.1860  98.6095
## ORI_14617_14591 193.0260  499.550  100.4240 264.537  552.589 166.4160 136.5220
## ORI_14623_14594 230.1440  580.023  202.1070 238.675  432.179 153.2680 137.5030
## ORI_14629_14597 264.4060 1118.070  129.2970 477.165  716.624  89.7755  85.7282
## ORI_14631_14598 380.5240 1503.970 1042.4500 422.090  494.908  57.5667 141.2830
```

```
## ORI_14633_14599 304.0910  264.838  149.5510 254.208  639.413  90.2534 149.7420
## ORI_14635_14600 322.0450  144.616  197.6180 302.660  552.641 243.6590 149.9100
## ORI_14639_14602 206.1640  465.821  153.3770 194.045  456.104  75.1917 156.2000
##                  [,2506]   [,2507]  [,2508]  [,2509] [,2510] [,2511]  [,2512]
## ORI_10219_10218  67.6335 1244.7100 1450.950  132.910 198.726 506.775  838.947
## ORI_10735_10730  52.8185 4844.0400 3409.210 1323.280 381.422 407.983 1276.920
## ORI_14605_14585 206.9350 1442.6600 1921.300  432.169 234.072 404.002 1283.520
## ORI_14607_14586 313.4970 1774.9400 1186.740  920.447 304.932 297.909  583.959
## ORI_14609_14587  43.8467 2040.6700 3658.750  727.550 381.178 552.911 1201.960
## ORI_14617_14591  44.5644  521.7830 1148.540  227.406 149.582 344.714  831.816
## ORI_14623_14594 123.3060  445.3030 2162.630  289.502 190.973 677.263 1165.500
## ORI_14629_14597  64.2076  169.7920 2502.870 1330.980 303.532 427.736  457.984
## ORI_14631_14598 178.6400  921.6140 3757.760 1009.100 377.240 355.660  645.331
## ORI_14633_14599 144.9350  188.5670 1434.300  289.188 352.697 768.051 2206.900
## ORI_14635_14600 100.2110  286.9250  774.840  194.503 262.484 514.895 1021.330
## ORI_14639_14602  70.2575 2190.2800 2962.040  437.284 257.437 348.632  684.605
##                 [,2513]  [,2514]  [,2515]  [,2516]   [,2517]  [,2518]  [,2519]
## ORI_10219_10218 303.809  703.707 168.2200  97.6594 1043.0300  667.552 135.4050
## ORI_10735_10730 660.282  809.978 162.3340 280.8020  143.8610  466.701 134.6130
## ORI_14605_14585 287.486  724.820 294.7730 229.3030  484.4110  847.964 130.9720
## ORI_14607_14586 313.649  638.587 255.2930  92.8728  365.7150  592.286 168.2940
## ORI_14609_14587 321.262  637.985 308.6570 287.8710  294.7980  829.568  89.7767
## ORI_14617_14591 253.263  607.441 182.5990 138.0120  705.1810  488.129 100.0780
## ORI_14623_14594 300.386  711.467 102.0330 220.3390  422.3630  784.681 117.1140
## ORI_14629_14597 292.319  766.346 197.7950 378.9270  146.0510 1253.350 376.9440
## ORI_14631_14598 289.630  261.405 356.8770 225.4590  363.4420  713.006 162.1010
## ORI_14633_14599 400.864  752.489 152.7270 231.5680  462.2490  703.176 170.3920
## ORI_14635_14600 328.207  667.253 100.3590 157.4520  286.1640  545.637 128.8730
## ORI_14639_14602 371.540  486.276  82.9090 116.4460  135.5230  572.069 142.9280
##                 [,2520] [,2521] [,2522] [,2523]  [,2524]  [,2525] [,2526]
## ORI_10219_10218 694.175 295.409 212.566 415.031 179.9600  390.545 487.021
## ORI_10735_10730 465.009 375.427 227.076 233.601 208.7030  696.740 295.960
## ORI_14605_14585 321.853 299.020 243.801 238.620 301.9190  548.600 411.427
## ORI_14607_14586 533.639 263.495 384.687 259.725 374.7430  684.473 311.023
## ORI_14609_14587 618.953 285.919 560.951 316.217 220.7840  680.117 512.305
## ORI_14617_14591 920.100 178.912 263.339 263.458 281.7160  634.865 239.492
## ORI_14623_14594 604.754 193.641 228.009 291.308 176.4900  588.676 221.114
## ORI_14629_14597 296.900 549.982 288.329 233.090 402.4230  480.296 184.286
## ORI_14631_14598 528.317 394.518 465.325 236.443 265.1750  689.815 318.503
## ORI_14633_14599 411.047 289.145 341.258 210.559 207.4160  815.941 186.240
## ORI_14635_14600 684.582 181.055 276.361 224.734 179.3670  765.325 290.790
## ORI_14639_14602 245.611 206.852 237.858 190.757 192.3310  877.389 287.588
##                 [,2527]  [,2528]  [,2529] [,2530]  [,2531] [,2532] [,2533]
## ORI_10219_10218 348.574  342.996 394.5610 331.953  890.594 447.817 483.020
## ORI_10735_10730 480.819  733.103  98.3274 292.217  832.459 458.112 567.549
## ORI_14605_14585 437.188  347.581 469.2560 309.879  581.561 509.293 431.007
## ORI_14607_14586 514.538  574.817 186.3660 204.256  854.200 578.682 251.669
## ORI_14609_14587 524.724  326.949 139.7480 278.040 1162.440 680.172 256.704
## ORI_14617_14591 704.312  176.761 134.2920 121.135 1346.480 827.711 210.029
## ORI_14623_14594 305.008  259.906 132.2540 123.252  864.182 443.237 565.862
## ORI_14629_14597 485.048  346.917  69.4217 206.916 2185.730 235.045 202.585
## ORI_14631_14598 470.324  461.861  82.0402 247.897 1459.650 608.194 396.797
## ORI_14633_14599 399.570  386.221  78.6351 215.722 1048.280 509.196 472.668
## ORI_14635_14600 634.356  163.578 199.4450 148.403 1133.260 685.221 384.418
```

```
## ORI_14639_14602 487.742  293.525 135.5790 151.468 1429.430 402.884 395.161
##                 [,2534]  [,2535]  [,2536]   [,2537] [,2538]  [,2539]  [,2540]
## ORI_10219_10218 334.669  326.730  76.1717  388.8450 705.419 1045.780  396.004
## ORI_10735_10730 324.159  497.238  76.2203  657.1180 701.449 1584.330 1445.860
## ORI_14605_14585 475.285  502.225 123.7820  489.4820 577.473 1092.380  579.361
## ORI_14607_14586 358.575  272.900 278.2530  425.6040 590.269  995.127  793.019
## ORI_14609_14587 316.358  638.667 108.4560  653.2100 739.741 1698.100  960.794
## ORI_14617_14591 229.234  441.243 126.6900  746.0160 737.953 1069.860  828.798
## ORI_14623_14594 405.687  468.206 108.1720  713.9930 637.865 1087.990  634.530
## ORI_14629_14597 501.003  131.833 101.7210  724.6160 619.147 1345.410 1234.940
## ORI_14631_14598 287.595  484.562 199.6250  512.7650 759.263 1459.670  949.035
## ORI_14633_14599 382.457  653.700  79.7922  796.2110 678.607 1230.930 1254.100
## ORI_14635_14600 316.479  623.925 137.1830  655.6060 960.450  985.659  736.008
## ORI_14639_14602 513.219  633.057  94.2346  625.2030 857.486 1011.250  704.135
##                 [,2541]  [,2542]   [,2543]  [,2544]  [,2545]  [,2546]  [,2547]
## ORI_10219_10218 2793.55  535.531  306.6710  78.5624  299.846  199.516  79.1732
## ORI_10735_10730 3066.94 1045.260  449.1850  78.7138  472.947  409.293 239.6870
## ORI_14605_14585 3884.53  749.960  303.8720 227.0330  254.198  289.516  60.3295
## ORI_14607_14586 3755.44  762.328 1554.8400 634.1510  298.626 1032.640 119.7300
## ORI_14609_14587 3718.11 1000.390  368.8130 144.2080  691.809  579.485  86.9519
## ORI_14617_14591 3163.16  749.355  162.3580  29.4040  126.102  275.037  76.1853
## ORI_14623_14594 3407.19  749.276  234.0140  77.0114  246.067  196.820  95.3938
## ORI_14629_14597 3311.41  694.122  183.0770 533.0990  233.730  304.587  45.1666
## ORI_14631_14598 3552.99  755.268  484.2530 152.5250  269.855  770.378  69.1497
## ORI_14633_14599 4396.56  568.810  213.9310  47.6670  323.551  222.095 138.8310
## ORI_14635_14600 4448.14 1109.750  160.3020  34.0100  241.677  160.117  71.2155
## ORI_14639_14602 3900.99  679.754  230.9450  47.1147  263.307  338.472 387.4590
##                  [,2548] [,2549] [,2550] [,2551]  [,2552]  [,2553] [,2554]
## ORI_10219_10218 156.2800 334.056 319.787 339.242 307.1290  639.637 548.385
## ORI_10735_10730 152.4020 347.853 481.826 323.946 257.0390  725.973 605.906
## ORI_14605_14585 185.8780 364.928 472.817 368.933 167.8860  837.912 461.699
## ORI_14607_14586 409.0530 504.945 357.052 350.040 201.7230  942.629 586.804
## ORI_14609_14587 277.2310 407.402 492.297 473.542 197.4270 1206.790 624.281
## ORI_14617_14591 113.3270 298.842 264.499 409.935 350.9510  928.680 395.599
## ORI_14623_14594 115.4310 393.123 368.494 553.045 209.3870  613.598 506.979
## ORI_14629_14597 201.3500 479.129 420.664 582.394  99.6347  622.952 253.972
## ORI_14631_14598 228.9610 466.991 403.077 416.243 161.7000  908.001 662.256
## ORI_14633_14599 168.2840 227.951 462.719 333.755 226.5570  860.827 467.375
## ORI_14635_14600 176.5590 253.399 400.093 627.088 195.2530  575.134 560.550
## ORI_14639_14602 147.4250 238.837 448.431 390.708 121.4930  608.566 362.095
##                   [,2555]  [,2556]  [,2557] [,2558]  [,2559]  [,2560]  [,2561]
## ORI_10219_10218  855.4330 1416.730  774.907 405.754  741.356 274.3700  41.6375
## ORI_10735_10730  125.3510 1131.410  421.291 348.963  581.779 111.1140 221.1560
## ORI_14605_14585  878.1930  823.798  491.884 261.155  357.059 163.3270 131.5860
## ORI_14607_14586  387.5960  652.854  310.660 240.304  615.694 180.1070  64.1243
## ORI_14609_14587  351.3890 1224.480  431.884 474.642  559.160 158.9540 160.9900
## ORI_14617_14591  634.5310 1312.430  317.137 396.063  903.012 200.6910  65.4310
## ORI_14623_14594  990.5150 1034.710 1038.150 189.949  510.712 164.6870 127.8360
## ORI_14629_14597  128.3650 1531.390  592.583 343.176  405.211 174.8630 125.2080
## ORI_14631_14598  285.4490 1149.240  451.132 389.182  429.938 135.9590 178.4450
## ORI_14633_14599  241.0360  980.293  495.073 290.437  506.662  93.1557 169.6200
## ORI_14635_14600  318.5230  934.531  541.222 247.553  534.616 130.2710 257.1690
## ORI_14639_14602  222.5790  779.444  706.418 403.283  545.547  82.9474 317.1250
##                  [,2562]  [,2563] [,2564] [,2565]   [,2566]  [,2567]   [,2568]
```

```
## ORI_10219_10218 1286.180  778.730 676.664 214.969  268.1030  372.782   24.6827
## ORI_10735_10730 1359.600  665.835 517.370 499.976  134.5130 1095.180 3190.0000
## ORI_14605_14585 1307.250  539.815 495.776 301.695   98.5657 1230.800  134.0510
## ORI_14607_14586 1014.490  318.673 455.338 347.234  246.4970 3104.320 2107.0400
## ORI_14609_14587 1072.390  334.394 562.369 531.896  229.8240 1720.500 3923.8600
## ORI_14617_14591  931.626  420.451 704.307 333.611  533.1560  359.794   24.6827
## ORI_14623_14594  617.433  693.852 443.810 225.306  383.4910  374.062  147.7320
## ORI_14629_14597  578.347  550.353 580.093 332.494  186.4440  516.664  775.8450
## ORI_14631_14598 1065.420  389.624 706.984 389.400  158.7850 1521.050 1657.8500
## ORI_14633_14599 1364.040  599.740 718.232 387.439  171.4300  844.047 2500.9900
## ORI_14635_14600  757.218  425.658 643.696 454.969  209.5920  616.018 1010.7500
## ORI_14639_14602 2438.020  669.645 544.429 584.338  101.5090  413.048  250.6330
##                   [,2569]   [,2570]   [,2571]   [,2572]  [,2573] [,2574]
## ORI_10219_10218  516.0550  192.0650  138.7310  327.8240  429.505 270.422
## ORI_10735_10730  666.1810  443.3370  242.4190  713.6690 1117.190 347.176
## ORI_14605_14585  933.4730  382.6360  241.6680  590.0480 1205.000 340.345
## ORI_14607_14586 1473.0200 1670.5200  731.8560 1637.2600 2157.200 400.589
## ORI_14609_14587  717.5100  872.3710  575.7910 1335.5900 1156.900 342.351
## ORI_14617_14591  169.7350   77.0710   93.8908  127.4490  146.546 389.838
## ORI_14623_14594  276.1870  119.2880  139.2050  188.3210  197.380 334.061
## ORI_14629_14597  264.9480  184.9550  127.0890  300.3690  452.854 152.440
## ORI_14631_14598  511.8630  950.4840  332.9840  726.9840 1090.140 360.460
## ORI_14633_14599  734.9830  372.1070  215.0040  889.6710  622.642 905.836
## ORI_14635_14600  168.1840  271.5660  184.2820  334.0810  381.167 688.790
## ORI_14639_14602   63.6499  212.0940  161.7300  208.7340  131.464 382.153
##                  [,2575]  [,2576]  [,2577] [,2578] [,2579] [,2580] [,2581]
## ORI_10219_10218 130.4910 1350.030  511.377 156.337 380.368 491.924 223.282
## ORI_10735_10730  97.6188  727.484  550.014 387.724 305.753 338.917 548.645
## ORI_14605_14585 129.6710 1188.230  555.846 279.950 533.513 323.608 196.851
## ORI_14607_14586 408.3610  481.600  580.264 305.893 238.615 258.481 271.872
## ORI_14609_14587 126.3220  771.758  464.936 380.662 386.736 410.956 392.714
## ORI_14617_14591  83.7126  922.217  647.602 204.944 418.531 489.284 196.032
## ORI_14623_14594 185.6090 1263.980  790.654 191.429 241.330 307.057 179.223
## ORI_14629_14597 178.9750  878.133  640.811 175.215 423.749 362.777 899.599
## ORI_14631_14598 149.3460  847.908  613.226 373.206 334.534 355.635 371.389
## ORI_14633_14599 166.2930  790.708  798.206 340.087 272.464 399.649 189.543
## ORI_14635_14600 160.3040  951.576  571.102 262.589 261.500 408.204 190.267
## ORI_14639_14602 151.6740  650.900  610.836 224.091 195.817 334.408 350.888
##                  [,2582]   [,2583] [,2584]  [,2585] [,2586]   [,2587]  [,2588]
## ORI_10219_10218  268.314   92.1710 389.823 3734.510 241.294 1954.8700 156.0300
## ORI_10735_10730  479.070  634.3290 282.507 2366.560 359.875  689.9470 215.0090
## ORI_14605_14585  338.488  332.9730 317.078 3888.550 274.227 2511.0800  77.6131
## ORI_14607_14586  239.762  670.5340 355.404 1929.420 240.829 1075.4800  72.3041
## ORI_14609_14587  311.564  554.8460 289.220 3431.700 192.552 1652.2300  62.8380
## ORI_14617_14591  229.659   90.2709 222.883 2702.640 245.751 1225.3700 153.6960
## ORI_14623_14594  336.813  117.8220 429.597 2185.020 341.466  947.9360  98.5190
## ORI_14629_14597  268.465  168.1500 536.935 1953.570 263.399 1096.8200  64.8600
## ORI_14631_14598  338.809  409.4940 352.001 2202.140 213.049 1983.7200  76.3547
## ORI_14633_14599  316.622   97.1264 370.294 3219.340 296.614  500.5460 257.7420
## ORI_14635_14600  479.996   88.8688 311.327 2326.380 307.107  711.9420 203.6180
## ORI_14639_14602  681.295   63.8067 388.168 2602.890 348.553  423.5170 105.6650
##                   [,2589]  [,2590]  [,2591] [,2592] [,2593]  [,2594]  [,2595]
## ORI_10219_10218  556.2900 216.8800 121.2220 396.711 319.156 450.9640 221.0940
## ORI_10735_10730  414.7470 126.5250 263.3520 288.901 211.137 107.6050 122.2830
```

```
## ORI_14605_14585  122.2620  24.6827 161.7680 403.785 350.685 224.5940 210.8430
## ORI_14607_14586  418.3840  72.6656 120.4180 326.540 199.774 257.6200 131.5690
## ORI_14609_14587  186.1000  29.0266 316.4080 310.718 208.178 120.5520 294.0470
## ORI_14617_14591  682.1670 134.9960 128.1590 280.163 164.546 486.9490 156.5210
## ORI_14623_14594  576.8980  92.4374 205.0570 331.092 286.072 293.1840 191.9000
## ORI_14629_14597  160.8080  45.0939  96.2588 360.958 208.579  55.6056 250.9590
## ORI_14631_14598  106.7910 190.0570 184.8960 315.291 214.077 135.2060 185.8330
## ORI_14633_14599  439.5070  99.5974 275.6130 348.173 440.215 387.3530 191.0000
## ORI_14635_14600  267.4350 145.1690 195.8490 387.387 424.862 460.0310 224.2930
## ORI_14639_14602  222.9300 311.9660 113.1310 376.936 269.015 446.2850 218.1220
##                  [,2596]   [,2597]   [,2598] [,2599] [,2600]  [,2601]   [,2602]
## ORI_10219_10218 208.8830  953.8990  798.7230 159.523 458.692  401.972  338.9000
## ORI_10735_10730 203.2330  180.8870  516.1150 153.104 358.070 2216.040  526.3250
## ORI_14605_14585 127.2620 1284.5000  710.3840 202.533 360.713 1013.390  197.0130
## ORI_14607_14586 137.2230  647.3380  653.8460 297.632 408.814  698.949  873.1800
## ORI_14609_14587 347.5650  663.4100 1761.0500 260.729 342.318  714.810  255.0080
## ORI_14617_14591 129.4760  932.5360 1462.2000 124.174 223.354  705.704  322.6990
## ORI_14623_14594 118.1440  653.3000 1233.9200 177.521 236.579  606.466  128.6770
## ORI_14629_14597 278.7120  562.9490  707.0060 192.910 294.930  475.489   77.2563
## ORI_14631_14598 255.8340  607.3550  290.9730 215.787 320.361  370.008  362.1000
## ORI_14633_14599 201.9930  160.0380  263.7640 186.610 315.463 1172.260  127.1530
## ORI_14635_14600 208.7250  647.2550  317.6370 195.613 305.921 1213.910   85.1877
## ORI_14639_14602 101.4310   71.6924   24.6827 170.873 219.450  723.403  155.4720
##                  [,2603]  [,2604] [,2605]  [,2606]  [,2607]   [,2608]  [,2609]
## ORI_10219_10218 157.4750 140.4780 675.661  96.2327  364.331   49.7692  239.818
## ORI_10735_10730 237.0400 219.3600 734.947 115.1300 1250.230  582.8410  412.525
## ORI_14605_14585 197.1420 160.6700 555.116 100.4640  348.368  129.3320  293.622
## ORI_14607_14586 328.1830 185.6190 684.036 104.8220  405.416  136.1260  672.890
## ORI_14609_14587 204.4700 200.5980 693.092 169.2050  561.087  231.5720  453.096
## ORI_14617_14591 104.7900 235.6220 669.833 138.1550  366.451   52.3267  364.369
## ORI_14623_14594 125.2540 193.0270 474.815 179.1860  574.634  146.4460  479.970
## ORI_14629_14597 182.3530  30.5156 654.144 120.3470  900.438  419.2600  287.353
## ORI_14631_14598 225.7140  58.4233 776.888 140.1930  973.076  368.8510  608.677
## ORI_14633_14599 127.5520 251.3480 699.596 186.7390  624.447  167.5290  373.474
## ORI_14635_14600 122.7660 156.6820 641.661 179.3970  226.068  231.6060  451.423
## ORI_14639_14602 121.7190 189.3990 748.337 255.1020  628.893   92.6812  343.042
##                  [,2610]  [,2611]  [,2612] [,2613]  [,2614]  [,2615]  [,2616]
## ORI_10219_10218 104.8610 1389.930 399.9730 462.118  883.381  837.449  78.7307
## ORI_10735_10730 169.1490 1072.250 306.7130 490.835  862.781  557.525 115.9400
## ORI_14605_14585 123.5520  787.281 184.5620 588.122  911.708  633.041  42.7789
## ORI_14607_14586 240.5150 1316.950 278.1620 624.580  803.223  541.185 219.1510
## ORI_14609_14587 221.3930  803.527 180.0280 601.157  953.723  500.602 242.8880
## ORI_14617_14591  82.3664  811.946 432.3300 583.481 1089.390  713.308  35.5282
## ORI_14623_14594 146.5700  940.469 207.4760 495.576  983.193  760.272  60.6593
## ORI_14629_14597 188.3500 1143.480 295.7820 618.389  816.572  905.826  36.0863
## ORI_14631_14598 255.4090 1378.390 222.2350 782.443  698.678  694.264 162.1630
## ORI_14633_14599 126.0540  903.984 162.3050 535.629  723.784  550.894 144.3100
## ORI_14635_14600 148.1350  874.516 201.8190 445.402  855.711  997.141  84.0920
## ORI_14639_14602 102.1730  684.324 143.2540 444.155  819.296  350.684  94.7390
##                   [,2617] [,2618] [,2619] [,2620]  [,2621] [,2622] [,2623]
## ORI_10219_10218  358.2650 4299.19 241.325 183.888 205.2690 272.459 558.062
## ORI_10735_10730 1500.4600 2843.51 290.793 382.524 208.9590 210.550 327.570
## ORI_14605_14585  520.0560 4242.77 259.915 343.478 285.3080 203.495 331.995
## ORI_14607_14586  886.0830 3697.38 249.099 510.666 180.5700 224.823 254.773
```

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## ORI_14609_14587 1296.6700 4045.74 314.708 315.940 114.9350 284.599 152.093
## ORI_14617_14591  500.3850 3589.60 218.277 189.418 148.1370 352.216 381.400
## ORI_14623_14594  275.7690 3896.82 267.516 185.358 330.1620 278.690 345.522
## ORI_14629_14597 1416.4100 4156.48 274.457 207.694 230.2400 176.913 193.827
## ORI_14631_14598 1287.4800 3345.83 304.309 327.867 163.6670 243.484 273.827
## ORI_14633_14599  156.5770 4560.35 368.041 293.627 203.6330 186.495 448.611
## ORI_14635_14600  148.6880 4729.34 488.275 190.010 273.0190 426.863 324.232
## ORI_14639_14602  696.4060 4197.26 333.481 121.278 254.4550 268.224 374.888
##                  [,2624] [,2625]  [,2626]  [,2627]   [,2628]  [,2629]  [,2630]
## ORI_10219_10218  72.0512 266.434  266.185  438.619   97.3104  863.160  24.6827
## ORI_10735_10730 164.5480 271.111  614.706  760.962  557.7970  774.660 312.3050
## ORI_14605_14585 114.8280 289.838  323.430  280.058  162.0420  793.278 203.0190
## ORI_14607_14586 275.3270 436.098  672.146  266.287  384.0620  978.860  37.9213
## ORI_14609_14587 227.8400 517.382  669.859  513.054  283.5320 1248.800 146.2480
## ORI_14617_14591  62.9710 413.736  205.113  311.899   86.0614 1244.870  30.4297
## ORI_14623_14594  67.3063 250.956  269.057  258.204  176.3470  779.947 199.8720
## ORI_14629_14597 109.8790 410.827  653.896  634.991  188.6850  926.430 102.5030
## ORI_14631_14598 250.4390 360.160  650.286  522.202  427.1410 1088.100 179.8610
## ORI_14633_14599 107.2300 335.700  395.141  459.527  394.5980 1435.330 138.6530
## ORI_14635_14600  86.0672 282.933  302.684  272.776  204.5650 1111.900 145.6630
## ORI_14639_14602  72.5636 284.260  363.386  144.704  332.9890  782.098 307.9130
##                  [,2631]  [,2632] [,2633]  [,2634] [,2635] [,2636] [,2637]
## ORI_10219_10218 1207.670  63.1782 176.322  428.279 307.645 380.325 577.868
## ORI_10735_10730  872.080  93.1140 532.064  679.279 316.418 500.411 668.218
## ORI_14605_14585  844.238 231.6560 327.680  465.323 269.655 376.787 699.668
## ORI_14607_14586  765.333  24.6827 469.812  305.601 174.822 392.242 613.252
## ORI_14609_14587 1082.320  24.6827 409.265  410.699 146.078 583.486 582.827
## ORI_14617_14591 1882.560  31.2591 192.877  499.265  72.063 374.331 847.509
## ORI_14623_14594 1467.230  24.6827 265.233  454.639 328.666 298.888 731.953
## ORI_14629_14597 1376.450 398.2060 176.139  545.705 224.484 240.427 778.419
## ORI_14631_14598 1247.770  24.6827 429.245  336.556 189.432 420.922 735.354
## ORI_14633_14599 1220.370 114.1310 241.302  423.422 207.741 312.278 665.109
## ORI_14635_14600 1217.140 102.7950 231.711  473.255 238.074 370.259 778.390
## ORI_14639_14602  601.127 211.5140 124.464  225.826 264.473 223.652 432.393
##                  [,2638] [,2639] [,2640]  [,2641] [,2642]  [,2643] [,2644]
## ORI_10219_10218 129.6880 212.503 289.544  591.752 434.797 1425.540 198.662
## ORI_10735_10730 197.4480 278.825 276.806  650.136 592.616 1003.690 260.663
## ORI_14605_14585 153.6150 234.255 283.342  768.095 513.793 1116.670 174.659
## ORI_14607_14586  94.5919 170.575 274.997  651.407 623.700  913.957 142.008
## ORI_14609_14587 215.6760 396.116 224.529  581.414 681.181  598.865 278.846
## ORI_14617_14591 120.8360 221.244 187.217  378.574 531.155  996.260 181.881
## ORI_14623_14594 120.9450 224.403 211.328  733.068 396.942  840.972 151.450
## ORI_14629_14597 140.0010 288.822 150.394 1175.760 877.656  602.530 224.415
## ORI_14631_14598 163.7380 260.655 223.082  935.387 674.279  737.574 285.520
## ORI_14633_14599 198.8450 257.815 257.621  624.169 593.752  755.866 252.384
## ORI_14635_14600 377.3020 272.971 217.248  648.663 580.805  680.830 212.738
## ORI_14639_14602  80.7575 302.745 178.042  765.952 634.773  489.920 132.191
##                 [,2645] [,2646] [,2647]  [,2648] [,2649]  [,2650] [,2651]
## ORI_10219_10218 208.919 172.221 136.854  882.348 481.447 133.8950 264.631
## ORI_10735_10730 437.622 319.014 321.007  582.041 471.090 342.2300 309.625
## ORI_14605_14585 401.169 204.296 250.281  782.972 453.971 155.5420 382.662
## ORI_14607_14586 390.907 232.975 167.456  721.008 468.505 150.1010 309.457
## ORI_14609_14587 314.924 268.083 342.799  583.013 468.291 150.8360 414.733
## ORI_14617_14591 271.074 178.976 116.433  598.756 440.938  55.3362 336.970
```

```
## ORI_14623_14594 317.607 132.661 200.992  828.342 370.304 152.6560 422.257
## ORI_14629_14597 501.076 331.483 251.977  650.777 482.332 226.6510 272.836
## ORI_14631_14598 332.762 387.964 390.300  597.642 438.468 288.9640 267.119
## ORI_14633_14599 385.628 252.674 307.218  779.067 477.977 149.8000 348.137
## ORI_14635_14600 318.846 352.919 251.045  754.528 431.051 148.1310 418.304
## ORI_14639_14602 542.441 305.884 266.423  666.112 483.889 171.2890 217.981
##                  [,2652] [,2653] [,2654] [,2655] [,2656] [,2657] [,2658]
## ORI_10219_10218  308.165 2292.37 327.549 447.399 487.046 259.768 168.702
## ORI_10735_10730  574.748 1229.91 492.341 420.156 172.642 435.420 335.372
## ORI_14605_14585  713.886 2625.41 341.029 434.653 433.228 503.473 199.649
## ORI_14607_14586  911.017 2374.02 388.101 310.888 377.843 530.663 194.082
## ORI_14609_14587  643.655 2433.95 455.029 525.862 224.169 530.645 366.493
## ORI_14617_14591  364.906 2269.86 325.515 418.789 150.990 567.916 219.216
## ORI_14623_14594  348.511 2891.99 316.336 288.904 341.397 439.104 211.457
## ORI_14629_14597  484.012 2845.00 373.939 288.991 300.978 394.214 214.175
## ORI_14631_14598  766.843 2308.72 400.413 310.362 201.905 377.233 455.042
## ORI_14633_14599  496.478 2315.50 324.619 588.630 326.118 585.139 303.170
## ORI_14635_14600  500.419 2734.91 412.464 423.318 169.350 520.397 305.717
## ORI_14639_14602  335.344 2335.31 296.503 360.974 182.773 262.543 310.491
##                 [,2659] [,2660] [,2661]  [,2662]  [,2663] [,2664]  [,2665]
## ORI_10219_10218 196.731 288.651 243.820  674.289 206.7070 807.304  668.239
## ORI_10735_10730 352.011 349.520 347.007  649.897 272.3800 544.756 1235.150
## ORI_14605_14585 216.773 338.996 299.733  654.700 176.4560 679.671  881.770
## ORI_14607_14586 174.316 359.928 236.925  544.803 165.0740 560.910  966.015
## ORI_14609_14587 254.621 326.926 340.299  599.394 225.2310 394.638 1150.920
## ORI_14617_14591 153.470 345.707 273.570  601.655 160.8490 680.651 1230.300
## ORI_14623_14594 182.521 481.945 154.941  542.570 166.0950 422.344 1048.610
## ORI_14629_14597 275.257 485.794 257.545  598.118 243.7690 268.332 1417.030
## ORI_14631_14598 300.160 509.496 226.558  655.906 272.7520 314.919  826.562
## ORI_14633_14599 197.372 468.324 356.035  491.932  98.5965 307.514 1195.440
## ORI_14635_14600 264.251 467.741 323.745  554.749 142.6000 429.288 1248.390
## ORI_14639_14602 394.974 419.978 416.486  518.288 258.7510 194.947 1082.090
##                 [,2666]  [,2667] [,2668] [,2669]  [,2670]  [,2671]  [,2672]
## ORI_10219_10218 328.515  60.5944 198.757 275.199  494.568  60.9891  660.814
## ORI_10735_10730 438.677 112.4260 194.282 554.173 1654.500 158.7290  373.980
## ORI_14605_14585 379.877 109.8260 193.087 277.341 1435.720 207.3440  581.338
## ORI_14607_14586 222.429 144.3160 444.967 315.747 1287.010  87.2796  592.338
## ORI_14609_14587 446.562  92.1467 280.544 388.978 1322.100 148.5800  657.168
## ORI_14617_14591 258.014  33.7800 133.293 372.487 1633.520  72.8555  715.865
## ORI_14623_14594 432.250  86.9560 151.827 310.487 1757.590 197.1130  430.978
## ORI_14629_14597 440.275 223.1820 174.879 712.067 1497.920 142.7930  511.119
## ORI_14631_14598 314.710 176.3690 175.839 422.706 1090.110 206.4760  452.895
## ORI_14633_14599 387.180  98.9368 207.642 344.119 2094.710 116.0420  566.927
## ORI_14635_14600 798.399  93.9993 179.795 340.361 2363.800 205.8410  633.633
## ORI_14639_14602 294.143 118.8640 167.126 381.118 1907.480 372.5920  364.713
##                   [,2673]  [,2674] [,2675]  [,2676]  [,2677]  [,2678] [,2679]
## ORI_10219_10218   54.4167  526.757 296.209 1660.230  32.5508 106.6900 494.830
## ORI_10735_10730  840.2220  469.532 343.644  621.046 132.5220 121.6640 530.091
## ORI_14605_14585  221.2080  554.288 272.009  860.729  65.4821 132.5740 616.199
## ORI_14607_14586   92.7131  554.560 335.935  775.338 113.2200  83.9539 700.065
## ORI_14609_14587  427.3160  712.934 393.002 1250.180 382.6760 221.7130 443.724
## ORI_14617_14591   88.9240  586.662 338.595 2076.950  26.9543  38.4664 785.530
## ORI_14623_14594   63.3806  511.285 248.222 1274.830 132.3980 105.1710 456.611
## ORI_14629_14597 1047.6800  574.020 420.086  991.413 150.6540  64.9694 759.723
```

```
## ORI_14631_14598  412.8080 1082.720 431.668  713.527 273.9140 147.3440 357.879
## ORI_14633_14599  238.3300  751.468 309.311  646.965 104.3550  79.6194 533.803
## ORI_14635_14600  121.6110  635.790 246.667 1089.370  87.2488 162.4250 407.814
## ORI_14639_14602  159.5320  374.378 327.298  751.881 129.4630  91.1509 481.428
##                 [,2680] [,2681]   [,2682] [,2683]  [,2684] [,2685] [,2686]
## ORI_10219_10218 241.549 296.475  582.0960 277.444  90.8609 259.614 268.196
## ORI_10735_10730 264.950 681.291  895.1140 322.823 112.4770 526.999 358.039
## ORI_14605_14585 306.382 361.894  873.1230 246.656 105.8960 303.678 235.790
## ORI_14607_14586 273.370 336.868  749.7920 185.487 148.9920 308.288 233.161
## ORI_14609_14587 298.132 662.483 1209.2400 387.444 106.4300 359.679 347.408
## ORI_14617_14591 248.352 532.093  882.6010 491.609 124.8770 190.934 207.835
## ORI_14623_14594 207.193 294.155  719.3530 246.582 205.3140 242.903 246.853
## ORI_14629_14597 247.472 695.166 1707.8300 213.884 125.3150 247.480 302.972
## ORI_14631_14598 287.294 554.974  626.8460 424.353 156.8800 343.881 321.196
## ORI_14633_14599 326.755 418.433  545.2780 155.179 223.6650 235.599 294.198
## ORI_14635_14600 324.423 352.949  658.2820 441.091 150.5340 367.451 264.338
## ORI_14639_14602 297.445 387.251  824.3800 189.974 157.0620 302.840 226.110
##                  [,2687]  [,2688] [,2689] [,2690] [,2691]   [,2692]  [,2693]
## ORI_10219_10218 259.2190 195.8410 265.096 256.603 447.099   99.9158  97.5261
## ORI_10735_10730 450.0710 382.2280 278.310 438.565 344.695  385.6030  99.8613
## ORI_14605_14585 254.5990  83.6285 198.205 495.388 420.330  224.2400 116.0330
## ORI_14607_14586  91.5634 257.6510 160.602 305.490 461.838  240.6060 144.3130
## ORI_14609_14587 121.2390 347.5960 169.459 375.739 799.184  114.3030 111.9300
## ORI_14617_14591 183.5240 263.3120 156.777 322.047 287.505  564.1220 156.8260
## ORI_14623_14594 263.8020  99.2039 232.538 302.136 344.587  544.6690 109.1670
## ORI_14629_14597 242.0810 344.3250 340.060 280.333 843.094   29.0167 211.7160
## ORI_14631_14598 187.8890 285.7920 150.308 532.556 611.005  273.5310 128.3360
## ORI_14633_14599 324.1440 106.6350 271.133 237.049 321.572  657.7440 108.3990
## ORI_14635_14600 247.8620 110.1650 178.136 412.243 365.031  488.9560  68.9632
## ORI_14639_14602 497.6330 227.2590 165.939 334.211 239.091  618.4060  68.6320
##                  [,2694]  [,2695] [,2696]  [,2697] [,2698] [,2699]   [,2700]
## ORI_10219_10218 167.8310  731.596 2590.71 375.1350 338.368 277.544  686.4150
## ORI_10735_10730 110.9000  850.071 1349.44 355.4160 353.120 222.345   47.2825
## ORI_14605_14585 217.2730  764.451 2503.01 172.8490 350.660 299.335  872.4940
## ORI_14607_14586 127.0970  789.548 2226.28 257.3030 358.605 157.933  128.6230
## ORI_14609_14587 285.3100 1032.810 2350.97 382.5240 650.420 389.119  478.5070
## ORI_14617_14591 219.6460  933.981 1833.12 439.5540 452.423 198.648  134.4020
## ORI_14623_14594 293.6090  650.056 2765.61 187.6510 198.320 168.547  203.5730
## ORI_14629_14597 226.2790 1124.700 2859.94 281.4280 243.244 181.097   70.1023
## ORI_14631_14598 174.1880  911.161 2184.45 436.8570 495.494 309.386  160.0500
## ORI_14633_14599 165.0310  957.539 2271.99  50.2082 217.932 300.143   60.6010
## ORI_14635_14600 126.9070  968.776 2433.49 129.5950 290.244 436.117  299.7590
## ORI_14639_14602 105.8300 1022.980 2030.85  55.4209 215.926 232.968   54.5826
##                 [,2701]  [,2702] [,2703] [,2704] [,2705]  [,2706] [,2707]
## ORI_10219_10218 330.257  781.114 224.180 311.332 343.669  533.084 477.826
## ORI_10735_10730 307.604  310.563 469.799 328.984 274.037  518.861 240.903
## ORI_14605_14585 350.095  693.191 224.521 248.531 409.574  432.331 431.913
## ORI_14607_14586 296.382  353.235 368.208 228.524 764.222  555.684 339.688
## ORI_14609_14587 379.684  481.197 407.329 467.149 410.826  971.851 436.319
## ORI_14617_14591 306.189  536.902 310.205 411.964 357.626  351.573 294.383
## ORI_14623_14594 295.326  279.851 324.408 277.352 311.879  470.524 385.116
## ORI_14629_14597 464.087  357.541 365.480 299.074 508.632  552.641 308.434
## ORI_14631_14598 313.978  297.530 405.864 316.485 449.868  992.741 331.286
## ORI_14633_14599 436.819  336.641 294.087 310.173 398.411  657.775 354.947
```

```
## ORI_14635_14600 329.903  365.500 431.900 382.028 353.434  263.940 305.974
## ORI_14639_14602 240.942  343.102 427.468 211.283 414.441  249.022 299.435
##                  [,2708] [,2709] [,2710] [,2711] [,2712] [,2713] [,2714]
## ORI_10219_10218  491.807 203.738 206.082 249.919 613.017 506.089 588.130
## ORI_10735_10730  673.761 444.529 279.492 424.905 548.471 365.399 329.063
## ORI_14605_14585  517.864 289.238 257.294 287.719 511.429 464.353 664.493
## ORI_14607_14586  658.042 182.986 303.189 179.958 365.795 324.421 512.563
## ORI_14609_14587 1003.200 213.273 285.115 245.883 574.391 221.089 819.158
## ORI_14617_14591  592.372 156.753 234.786 268.806 580.579 306.382 628.667
## ORI_14623_14594  390.869 235.458 273.960 196.661 399.146 515.147 785.957
## ORI_14629_14597  713.381 298.738 245.794 223.577 442.484 351.429 931.303
## ORI_14631_14598  672.512 404.131 242.750 194.188 527.171 333.779 749.268
## ORI_14633_14599  380.783 348.390 297.340 235.538 489.322 430.712 694.643
## ORI_14635_14600  279.941 331.875 409.460 160.321 465.171 507.393 760.382
## ORI_14639_14602  376.107 210.262 257.984 637.361 543.118 513.703 691.977
##                  [,2715] [,2716] [,2717] [,2718] [,2719] [,2720]  [,2721]
## ORI_10219_10218 193.2600 462.611 530.274 479.599 253.436 656.714 232.1780
## ORI_10735_10730 194.8000 331.858 675.518 339.881 322.074 515.157 348.6030
## ORI_14605_14585 122.9460 452.575 540.858 424.391 294.371 511.360 235.9520
## ORI_14607_14586 217.9420 309.308 536.868 526.967 221.404 528.867 498.8730
## ORI_14609_14587 144.1510 313.034 767.827 513.319 373.643 615.272 483.4980
## ORI_14617_14591 203.0710 302.360 739.877 621.927 262.008 410.442 212.0730
## ORI_14623_14594 186.2530 561.141 665.674 476.578 189.251 497.614 129.8380
## ORI_14629_14597 175.3830 433.016 619.744 321.054 287.771 520.082 285.9150
## ORI_14631_14598 117.0620 417.001 701.100 391.368 215.892 533.288 365.8270
## ORI_14633_14599 164.0270 424.468 681.421 542.096 354.285 704.710 198.4030
## ORI_14635_14600 129.4940 459.281 640.276 495.997 240.108 516.525 129.0760
## ORI_14639_14602 115.5480 467.975 433.245 357.060 248.786 399.126  79.7470
##                 [,2722] [,2723] [,2724]  [,2725]  [,2726] [,2727] [,2728]
## ORI_10219_10218 438.408 167.441 432.802  919.114  502.484 326.385 455.920
## ORI_10735_10730 372.170 512.228 372.405  528.765  698.042 288.158 264.357
## ORI_14605_14585 518.979 362.806 483.315  924.985  748.043 561.363 356.579
## ORI_14607_14586 334.356 369.349 568.501  956.666  584.298 307.852 401.198
## ORI_14609_14587 400.815 337.391 394.160 1167.260  947.991 431.470 242.524
## ORI_14617_14591 435.484 135.689 418.448  972.768  896.153 445.865 347.882
## ORI_14623_14594 546.809 271.877 411.197 1151.600  967.837 447.161 395.932
## ORI_14629_14597 383.079 383.877 372.654 1054.510  615.081 391.733 429.598
## ORI_14631_14598 402.263 539.730 663.575  936.806  833.853 341.014 287.290
## ORI_14633_14599 649.228 325.678 411.231  820.172  907.338 432.502 340.972
## ORI_14635_14600 586.534 328.365 395.815 1027.070  975.079 530.404 379.804
## ORI_14639_14602 307.798 362.235 318.676  866.306  713.631 341.196 332.950
##                  [,2729]  [,2730]  [,2731]  [,2732]  [,2733] [,2734]  [,2735]
## ORI_10219_10218  734.716  193.012  473.552 107.6780  801.035 160.281 150.4490
## ORI_10735_10730  673.281  525.742 1929.970 176.9650  983.813 142.419 120.3120
## ORI_14605_14585  740.538  530.090  575.360 225.5610  964.137 222.909 234.2930
## ORI_14607_14586  581.163  272.760  978.845 175.5130  897.335 437.927 101.1150
## ORI_14609_14587  490.430  246.940  810.946 314.5200 1241.580 146.154  87.6934
## ORI_14617_14591  498.789  263.134  740.595 238.1830 1060.190 127.245 194.2920
## ORI_14623_14594  715.842  371.245  796.332 257.1430  849.115 163.657 222.5790
## ORI_14629_14597  635.542  254.526 1558.770 283.7980  870.949 198.887  59.0557
## ORI_14631_14598  571.859  427.336 1172.240 170.1910 1117.370 156.017  79.3147
## ORI_14633_14599  812.842  393.599  543.970 279.4310 1258.030 194.478 168.9330
## ORI_14635_14600  825.524  403.640  721.368 295.4300 1014.090 160.209 214.3270
## ORI_14639_14602  680.441  550.578  920.795 331.7200  784.837 182.243 117.5720
```

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##                 [,2736] [,2737] [,2738] [,2739]   [,2740]  [,2741] [,2742]
## ORI_10219_10218 633.552 412.046 211.396 238.926  834.5100 219.6270 355.220
## ORI_10735_10730 455.759 383.504 325.804 299.443  198.6890 427.9150 384.984
## ORI_14605_14585 657.995 329.784 236.682 235.236 1027.3100 350.6420 407.365
## ORI_14607_14586 551.397 465.324 204.286 298.166  234.7300 218.7460 348.119
## ORI_14609_14587 792.276 375.016 347.019 390.390  323.7140 356.0420 547.095
## ORI_14617_14591 559.860 291.357 252.994 280.266  446.0470 304.7800 372.288
## ORI_14623_14594 737.092 525.895 294.046 291.841  370.9080 194.0220 414.818
## ORI_14629_14597 723.771 441.258 334.901 273.978  468.3290 433.8480 406.721
## ORI_14631_14598 897.568 517.559 331.934 351.410  143.2030 364.6440 538.224
## ORI_14633_14599 596.001 394.193 292.286 342.867  251.5770  61.7888 558.358
## ORI_14635_14600 616.931 473.353 333.465 391.576  436.2990 123.7800 451.462
## ORI_14639_14602 346.904 322.467 342.728 304.002  193.1430 135.7110 382.300
##                 [,2743] [,2744]   [,2745]  [,2746] [,2747] [,2748] [,2749]
## ORI_10219_10218 245.101 337.437 1240.7600 178.9250 297.104 133.566 247.262
## ORI_10735_10730 585.843 247.670 1707.1100 246.4150 485.799 207.872 349.679
## ORI_14605_14585 271.826 348.790 1208.8400 253.9860 365.330 192.425 149.254
## ORI_14607_14586 388.282 411.824  875.7870 201.7690 267.307 259.772 177.435
## ORI_14609_14587 554.255 362.455 1804.4600 250.9230 664.009 189.831 152.306
## ORI_14617_14591 304.483 292.138 1536.0600 200.8050 259.318 133.800 121.486
## ORI_14623_14594 239.051 248.136 1076.1100 235.6890 214.443 175.921 183.076
## ORI_14629_14597 290.577 426.262  749.6220 280.7610 635.585 147.071 100.462
## ORI_14631_14598 459.510 365.508 1088.4900 302.7120 413.519 186.499 137.988
## ORI_14633_14599 693.180 309.207 1054.2500 324.3540 190.518 163.421 139.796
## ORI_14635_14600 410.348 245.024 1015.5800 258.8990 180.321 222.990 168.459
## ORI_14639_14602 352.315 170.795  558.1260 157.5890 137.594 169.823 180.297
##                 [,2750] [,2751] [,2752]  [,2753]  [,2754] [,2755] [,2756]
## ORI_10219_10218 255.499 446.702 331.929 164.6700  606.570 468.485 520.518
## ORI_10735_10730 276.355 222.711 286.912 103.8140  990.281 334.806 453.191
## ORI_14605_14585 213.906 345.971 338.229 118.6520  803.897 445.008 468.325
## ORI_14607_14586 221.008 302.303 490.713 135.0550  781.946 423.637 622.454
## ORI_14609_14587 336.393 333.657 320.237 212.1330 1055.440 317.429 662.339
## ORI_14617_14591 201.247 315.918 293.125  96.5919  810.284 401.719 528.780
## ORI_14623_14594 181.236 458.411 286.851  91.2332  666.372 592.546 431.080
## ORI_14629_14597 301.427 452.895 228.356 463.9840  626.192 520.410 691.165
## ORI_14631_14598 254.707 404.662 427.777  84.3675  783.944 418.752 873.594
## ORI_14633_14599 353.021 302.910 297.583 169.7620  517.218 547.794 392.862
## ORI_14635_14600 273.278 285.791 279.315 106.4090  941.620 555.991 367.421
## ORI_14639_14602 215.990 198.170 263.008 189.0360  711.535 545.583 472.196
##                 [,2757]  [,2758]  [,2759] [,2760] [,2761]  [,2762] [,2763]
## ORI_10219_10218 289.092  836.213 227.8880 347.042 341.959  777.821 364.062
## ORI_10735_10730 321.990  685.742 119.0820 116.977 377.035  731.840 511.288
## ORI_14605_14585 356.359  724.951 209.7230 154.857 549.868  672.542 476.247
## ORI_14607_14586 243.585  891.254 189.9630 218.728 320.080 1017.580 570.948
## ORI_14609_14587 509.923  665.059 256.8820 144.210 601.856  759.940 516.039
## ORI_14617_14591 298.702  804.504 201.2290 387.802 405.651  754.376 639.118
## ORI_14623_14594 218.047  930.288 297.9980 205.401 339.883  533.862 420.089
## ORI_14629_14597 376.169  477.105 291.7960 316.056 455.111  651.892 519.983
## ORI_14631_14598 412.513  818.297 225.2760 151.614 386.166  803.853 579.932
## ORI_14633_14599 263.211  699.246 241.8500 180.871 492.741  488.491 461.638
## ORI_14635_14600 286.350  805.258 296.4070 210.116 568.418  640.994 467.296
## ORI_14639_14602 363.486  657.646 292.3940 191.046 359.104  697.967 387.680
##                  [,2764] [,2765]  [,2766]  [,2767]  [,2768] [,2769]   [,2770]
## ORI_10219_10218  91.1055 469.601 206.6230 146.0360 397.8580 551.083 1112.1500
```

```
## ORI_10735_10730 158.3600 359.581 191.7550 126.9940 222.4580 360.422   97.6376
## ORI_14605_14585 192.3190 528.703 129.3570 238.9890 127.4560 556.026   68.4227
## ORI_14607_14586 103.0080 334.764 167.5180 125.8900 162.0440 419.939  500.8010
## ORI_14609_14587 262.5890 344.414 309.9330 246.9490 166.1470 247.676  238.8400
## ORI_14617_14591 146.7180 562.193 186.4100 181.8860 284.5000 325.328 1329.9600
## ORI_14623_14594 162.3500 689.337 386.8090 339.4970 217.6440 625.334  888.4790
## ORI_14629_14597 121.1420 425.640  65.3833 251.9020 120.3810 520.675  355.0250
## ORI_14631_14598 245.1480 319.533 236.1580 269.8650 135.9500 407.942  102.9780
## ORI_14633_14599 139.3290 580.730 168.6430 185.9400 310.8350 495.095  206.8420
## ORI_14635_14600 165.3420 684.429 241.4630 277.0330 264.2580 615.033  279.8020
## ORI_14639_14602 200.0460 536.826  39.7320 256.8660 167.5310 537.252   82.3977
##                  [,2771]  [,2772] [,2773]  [,2774] [,2775]  [,2776] [,2777]
## ORI_10219_10218  367.494  683.066 747.049 1614.540 1800.43 245.2580 387.515
## ORI_10735_10730  742.382  968.923 220.410  917.459 1244.41 362.1440 372.425
## ORI_14605_14585  930.281  902.320 363.009 2086.310 1214.94 111.6360 438.918
## ORI_14607_14586 1463.450  865.893 417.909 1496.390 1466.90  24.6827 225.216
## ORI_14609_14587 1051.680  740.642 472.611 1966.760 1458.27  63.2552 459.047
## ORI_14617_14591  379.820  858.390 329.969 1949.010 1397.26 252.1360 555.549
## ORI_14623_14594  280.821  768.230 516.702 2469.800 1508.21 406.2730 305.204
## ORI_14629_14597  706.903  771.670 268.503 2203.030 1420.88 345.4450 449.153
## ORI_14631_14598  997.954 1076.710 487.230 2058.020 1422.82 138.1670 332.371
## ORI_14633_14599  649.278  973.479 357.255 1762.210 2079.10 319.0500 592.637
## ORI_14635_14600  585.527  878.366 349.986 2418.330 1392.11 339.3280 446.051
## ORI_14639_14602  276.958  744.136 232.871 1950.240 1741.36 432.2000 353.071
##                  [,2778] [,2779] [,2780]  [,2781] [,2782] [,2783]  [,2784]
## ORI_10219_10218 310.4360 238.151 375.012  933.143 447.397 322.412 1295.610
## ORI_10735_10730 224.0120 264.314 633.317 1525.340 278.690 292.300  769.842
## ORI_14605_14585 308.0960 387.607 493.791 1598.650 464.936 415.224 1769.900
## ORI_14607_14586 150.2970 353.745 455.035 1646.000 351.558 278.283 1130.890
## ORI_14609_14587 176.9150 563.580 546.614 1755.410 297.907 452.366 1551.360
## ORI_14617_14591 409.1010 410.638 522.654 1523.630 374.061 273.775 1168.160
## ORI_14623_14594 262.6420 431.265 509.532 1709.510 565.864 416.461 1696.030
## ORI_14629_14597 460.4110 517.937 453.250 1775.870 503.460 408.464 1480.830
## ORI_14631_14598 297.5600 609.941 564.359 1566.380 482.786 523.308 1328.300
## ORI_14633_14599 379.8430 356.934 491.835 2086.460 407.350 382.630 1447.100
## ORI_14635_14600 340.1960 670.404 600.650 2074.180 578.868 392.750 1621.830
## ORI_14639_14602 382.0690 481.289 441.362 1475.070 308.679 374.081 1279.330
##                  [,2785]  [,2786]  [,2787] [,2788] [,2789] [,2790] [,2791]
## ORI_10219_10218 194.5870  98.7642  54.5980 173.330 532.794 452.088 709.742
## ORI_10735_10730 190.0020 174.3620  24.6827 320.356 546.784 503.979 732.478
## ORI_14605_14585 222.2260 178.4850 150.9530 367.385 536.678 385.425 657.732
## ORI_14607_14586 110.2640 366.5350 231.7210 309.790 473.754 290.052 442.268
## ORI_14609_14587 154.5900 126.7940 244.2160 497.953 524.906 541.048 379.694
## ORI_14617_14591 101.4180 158.3640 105.8440 185.681 469.374 550.659 487.642
## ORI_14623_14594 160.7560 158.9900  24.6827 214.682 248.065 565.863 917.155
## ORI_14629_14597  93.8841 160.8070 153.0450 253.481 356.979 500.268 678.858
## ORI_14631_14598 172.6990 205.1290  66.4633 298.373 305.854 391.999 614.015
## ORI_14633_14599 310.4130 162.8460 174.4820 292.310 457.554 421.263 547.155
## ORI_14635_14600 239.3450 182.6870 114.0500 244.140 354.822 444.693 636.514
## ORI_14639_14602 127.6150 157.6500  24.6827 170.885 376.068 423.641 700.065
##                 [,2792] [,2793] [,2794] [,2795] [,2796] [,2797]  [,2798]
## ORI_10219_10218 422.753 274.126 227.370 483.461 380.866 328.321  595.776
## ORI_10735_10730 793.158 363.605 390.318 566.613 505.371 488.202  766.025
## ORI_14605_14585 464.341 280.127 261.092 540.796 365.907 267.912  705.293
```

```
## ORI_14607_14586 363.257 244.344 269.231 576.908 401.871 414.000  633.254
## ORI_14609_14587 595.199 333.172 339.162 547.991 505.827 469.739  852.244
## ORI_14617_14591 407.760 275.837 294.754 355.186 428.437 488.153  891.303
## ORI_14623_14594 623.588 232.381 228.242 405.016 357.254 384.133  699.982
## ORI_14629_14597 372.206 187.437 200.266 411.069 605.853 353.999  877.752
## ORI_14631_14598 615.237 383.970 200.318 493.222 509.361 437.261  831.779
## ORI_14633_14599 517.161 337.877 347.963 480.214 436.401 425.855  672.439
## ORI_14635_14600 705.228 278.268 311.046 494.344 432.474 487.471  727.513
## ORI_14639_14602 459.583 334.844 322.914 576.786 475.078 419.098  585.589
##                  [,2799] [,2800] [,2801] [,2802]  [,2803] [,2804] [,2805]
## ORI_10219_10218 109.5040 453.626 567.465 683.340  894.334 312.071 235.257
## ORI_10735_10730 297.1600 288.700 501.196 487.274  604.095 482.164 538.458
## ORI_14605_14585 204.0940 579.303 519.801 529.313  704.455 512.362 257.386
## ORI_14607_14586 506.5090 764.727 343.721 363.671  839.027 530.746 566.504
## ORI_14609_14587 431.9480 732.353 433.394 451.409 1119.670 478.232 457.686
## ORI_14617_14591 102.5620 850.325 470.057 379.014  866.813 485.241 265.157
## ORI_14623_14594  91.1799 726.326 404.189 586.447  731.628 503.718 223.039
## ORI_14629_14597 219.2300 682.040 686.004 542.511  830.703 603.801 323.270
## ORI_14631_14598 322.4740 631.261 461.819 472.019 1071.750 420.714 421.429
## ORI_14633_14599 150.1350 466.505 460.243 528.005  516.079 626.427 306.396
## ORI_14635_14600 121.8090 472.964 497.174 506.626  613.711 402.451 279.305
## ORI_14639_14602  64.0311 438.479 322.682 469.475  446.056 546.629 260.181
##                  [,2806]  [,2807]  [,2808] [,2809]  [,2810]  [,2811] [,2812]
## ORI_10219_10218 1634.260  890.677 213.8120 274.895  736.303  368.158 390.385
## ORI_10735_10730  790.078  816.162 283.3070 280.785  562.976  871.273 430.602
## ORI_14605_14585 1476.720  615.110 176.7240 325.401  493.657  531.589 468.220
## ORI_14607_14586 1766.190  718.360 142.1140 293.458  714.014  432.984 402.640
## ORI_14609_14587 1863.040  806.161 266.4040 276.798  600.625  845.197 404.670
## ORI_14617_14591 1331.830 1035.530 287.2180 288.657 1354.330  364.308 385.028
## ORI_14623_14594 1838.700  661.971 113.7190 331.944  670.855  382.536 502.985
## ORI_14629_14597 1616.380  728.150 155.2450 391.506  533.767  671.720 500.767
## ORI_14631_14598 1541.630  740.302 266.2460 310.062  588.056  836.765 562.403
## ORI_14633_14599 1612.250  906.058 165.9290 414.837  481.712  485.467 483.898
## ORI_14635_14600 1913.830  790.109 103.2410 336.022  623.170  514.340 497.943
## ORI_14639_14602 1400.240  496.179 140.3530 426.135  232.645  458.551 437.533
##                 [,2813] [,2814] [,2815]  [,2816]  [,2817] [,2818] [,2819]
## ORI_10219_10218 276.859 298.222 120.266 1612.060 143.9670 326.603 296.703
## ORI_10735_10730 575.890 387.054 264.611  445.732 255.5920 451.499 193.974
## ORI_14605_14585 446.379 297.361 187.587 1473.190 192.4050 455.564 241.626
## ORI_14607_14586 308.449 197.603 148.752  750.875 302.8050 426.565 215.079
## ORI_14609_14587 519.865 435.494 377.744  997.064 298.5950 666.890 250.771
## ORI_14617_14591 427.154 284.950 178.914  748.200 169.8930 561.447 364.988
## ORI_14623_14594 387.749 308.031 167.605  601.111  92.9073 394.650 270.482
## ORI_14629_14597 504.686 220.325 251.342  335.396 231.0990 725.888 142.256
## ORI_14631_14598 500.282 466.651 312.890  587.805 208.5730 604.760 227.135
## ORI_14633_14599 510.638 361.388 188.050  613.501 171.7320 578.412 161.979
## ORI_14635_14600 413.421 410.722 226.467  599.580 168.5410 543.789 214.163
## ORI_14639_14602 541.347 185.522 166.932  339.804 193.0340 303.203 184.442
##                  [,2820]  [,2821] [,2822] [,2823]  [,2824] [,2825] [,2826]
## ORI_10219_10218  92.8235  55.8667 172.202 233.993  496.080 414.721 439.638
## ORI_10735_10730 300.6420 176.7600 405.278 234.470  808.353 515.494 478.584
## ORI_14605_14585 230.3860 282.0050 187.090 252.619  461.293 504.726 488.054
## ORI_14607_14586 109.7630 210.3670 297.852 189.621  914.467 379.736 471.057
## ORI_14609_14587 212.3020 229.4740 315.618 245.325  923.659 524.630 612.409
```

```
## ORI_14617_14591 107.8130 169.0140 290.262 218.800  643.341 444.218 671.316
## ORI_14623_14594 107.2230 133.3430 205.451 183.516  375.769 339.589 421.376
## ORI_14629_14597 316.2180 268.6860 189.567 205.917 1170.170 265.606 536.306
## ORI_14631_14598 218.0640 254.9910 269.929 195.299  810.379 530.707 625.452
## ORI_14633_14599 160.5720 358.8770 211.638 272.477  534.276 498.963 332.442
## ORI_14635_14600 186.2390 155.2860 229.369 314.448  594.269 448.855 572.338
## ORI_14639_14602 192.7440 118.1050 155.804 195.845  393.103 401.534 287.948
##                 [,2827] [,2828] [,2829] [,2830]  [,2831]  [,2832] [,2833]
## ORI_10219_10218 305.479 311.482 341.591 218.584 193.9790 1137.440 284.502
## ORI_10735_10730 348.690 410.497 211.086 351.142 177.9280 1410.600 422.480
## ORI_14605_14585 310.835 353.057 428.897 314.751 102.9650 1711.890 355.946
## ORI_14607_14586 227.150 510.655 331.590 415.550 170.3100 1491.980 230.307
## ORI_14609_14587 420.624 353.700 307.317 323.358 192.0480 2292.710 391.578
## ORI_14617_14591 398.393 386.783 223.986 267.803 151.5710 1619.240 381.643
## ORI_14623_14594 322.228 343.464 285.848 326.525 178.8870 1386.700 395.802
## ORI_14629_14597 191.203 324.518 223.380 517.532 201.2730 1199.930 250.604
## ORI_14631_14598 404.911 365.596 336.610 363.707 245.5680 1567.440 407.542
## ORI_14633_14599 393.008 442.258 340.229 391.082 143.3380 1983.000 349.334
## ORI_14635_14600 400.228 296.915 284.041 293.146 154.0710 1444.960 543.486
## ORI_14639_14602 334.027 214.685 188.315 314.258 153.8870 1767.080 295.555
##                  [,2834]  [,2835] [,2836]   [,2837]  [,2838] [,2839]  [,2840]
## ORI_10219_10218 118.6360 367.0260 515.850  203.7880 154.8080 137.805 1844.330
## ORI_10735_10730  94.0855 267.8940 814.688  972.4490 166.1500 382.129  868.216
## ORI_14605_14585  78.4033 392.8270 619.648  329.5770 173.3700 229.676 1588.000
## ORI_14607_14586  81.8796 272.9320 798.232  542.3470 188.8370 299.253 1339.640
## ORI_14609_14587 107.7460 409.5610 751.035  775.9940 212.7010 288.818 1761.450
## ORI_14617_14591  70.0102 255.6740 491.492  116.9240  84.6057 109.072 1187.590
## ORI_14623_14594  71.5062 348.5180 607.483  144.3430  99.0104 132.796 1923.510
## ORI_14629_14597  83.0029 249.4780 458.388  588.6520  24.6827 178.340 1877.510
## ORI_14631_14598 112.6040 291.8020 756.882  781.9860 166.7830 253.066 1378.500
## ORI_14633_14599  92.3281 180.2780 441.337  135.5830 124.8020 164.769 1969.900
## ORI_14635_14600  89.0961 299.4310 827.832  191.3680 155.5890 155.385 1785.160
## ORI_14639_14602 158.5400 175.0610 431.634  237.9150  93.6519 194.110 1519.800
##                  [,2841]   [,2842] [,2843] [,2844] [,2845]  [,2846] [,2847]
## ORI_10219_10218  571.866   95.3273 2215.32 285.514 391.818  820.497 407.943
## ORI_10735_10730  466.415  926.1250 2798.57 351.917 446.191 1720.340 507.325
## ORI_14605_14585  408.994  309.1620 2559.86 339.311 525.125 1202.920 433.135
## ORI_14607_14586  555.650   89.7646 2480.43 254.806 419.784  985.487 615.332
## ORI_14609_14587  361.198  384.6670 2929.74 385.365 560.826 1330.580 498.823
## ORI_14617_14591 1253.330   67.7766 3007.90 362.584 454.695  796.606 479.470
## ORI_14623_14594  561.848  122.4150 2396.37 259.763 555.538  952.902 381.919
## ORI_14629_14597  478.327  450.1220 2337.49 238.361 729.150  977.832 578.379
## ORI_14631_14598  867.448  477.1570 2193.93 338.190 657.978  920.523 561.266
## ORI_14633_14599 1991.100  311.6390 2387.19 340.116 670.488 1515.660 519.812
## ORI_14635_14600  618.989  227.4070 2885.12 340.210 752.736  905.732 473.908
## ORI_14639_14602 1129.810  377.3500 2101.15 163.263 532.328  842.064 412.439
##                 [,2848]  [,2849]  [,2850]  [,2851]  [,2852] [,2853] [,2854]
## ORI_10219_10218 543.480  412.143  313.908 123.8190 345.1310 274.746 295.942
## ORI_10735_10730 449.685  825.443  830.572 109.4970 171.1440 521.227 226.418
## ORI_14605_14585 495.569  702.997  446.634 111.4150 234.4180 413.725 363.892
## ORI_14607_14586 494.486  672.693  569.604  98.8577 219.3680 238.697 227.122
## ORI_14609_14587 466.088  824.062  465.421 141.2810 133.9420 422.580 271.899
## ORI_14617_14591 389.719  654.092  338.577  98.8787 126.3550 263.733 204.393
## ORI_14623_14594 365.749  571.525  384.983  69.7728 207.0140 293.863 355.817
```

```
## ORI_14629_14597 564.515  681.859  462.946 123.4560 310.8050 371.057 313.598
## ORI_14631_14598 438.095  596.851  460.577 141.9320  96.8211 631.083 308.109
## ORI_14633_14599 438.406  650.827  512.022  61.6560 276.0450 378.060 317.388
## ORI_14635_14600 357.130  754.893  267.541  72.1574 291.1130 297.175 293.414
## ORI_14639_14602 403.492  644.096  382.564 513.4690 201.3070 292.947 291.018
##                 [,2855]  [,2856] [,2857]  [,2858]  [,2859]  [,2860]  [,2861]
## ORI_10219_10218 216.759  86.2094 403.767 1009.230 128.4250  467.537  467.866
## ORI_10735_10730 437.651  58.5571 525.615 1132.790 247.9100  479.441  662.678
## ORI_14605_14585 338.855 139.5800 431.697 1174.600 413.7850  569.607  763.711
## ORI_14607_14586 216.700 100.2670 593.286 1037.080 271.3820  569.461  621.419
## ORI_14609_14587 633.205 331.7760 456.268 1515.890 702.7270  672.663 1061.170
## ORI_14617_14591 209.365 176.6550 393.240 1049.530 354.1190  402.273  605.683
## ORI_14623_14594 130.766 175.5680 460.062 1011.610 190.0280  400.088  436.859
## ORI_14629_14597 710.221 118.4410 453.185 1080.260 391.6870 1185.900  749.766
## ORI_14631_14598 539.279 225.3160 369.682  970.865 474.4890  629.588  890.663
## ORI_14633_14599 260.371 193.7220 399.883 1188.700 410.5760  141.939  505.761
## ORI_14635_14600 186.886 364.7560 296.915 1065.600 675.8290  291.288  718.272
## ORI_14639_14602 158.177  55.0165 247.654  799.288 317.2620  264.107  495.359
##                  [,2862]  [,2863] [,2864]  [,2865] [,2866]  [,2867] [,2868]
## ORI_10219_10218 320.5950  480.465 264.141 1459.350 238.469  542.211 247.347
## ORI_10735_10730 420.6230  606.122 352.459 1258.040 270.377  730.145 393.505
## ORI_14605_14585 342.8850  595.287 306.854 1301.240 270.264  701.463 274.132
## ORI_14607_14586 357.1740  542.709 199.051 1023.400 244.005  548.492 275.886
## ORI_14609_14587 409.7540  683.401 466.870  989.829 333.563  906.241 462.823
## ORI_14617_14591 319.0020  390.957 244.568  913.657 237.674  795.858 381.718
## ORI_14623_14594 357.7290  394.547 294.656 1289.860 213.695  620.344 263.133
## ORI_14629_14597 296.1200  698.804 203.072 1376.180 408.326  781.415 262.448
## ORI_14631_14598 552.1500  738.882 280.812 1200.160 318.569  791.326 362.055
## ORI_14633_14599 364.6810  511.509 469.158 1460.290 313.134  754.853 335.552
## ORI_14635_14600 537.4350  465.825 325.986 1250.610 307.973  714.813 395.478
## ORI_14639_14602 434.4030  483.531 203.801 1313.290 191.515  629.238 264.866
##                 [,2869]  [,2870] [,2871] [,2872] [,2873] [,2874]   [,2875]
## ORI_10219_10218 401.138 194.9690 177.878 196.439 188.771 796.506  558.8680
## ORI_10735_10730 290.397 237.3140 180.512 416.254 301.245 543.318  463.0560
## ORI_14605_14585 378.607 137.3290 321.497 272.426 300.158 801.228  626.8760
## ORI_14607_14586 262.338 133.9480 259.280 365.766 137.484 434.934  523.6340
## ORI_14609_14587 258.833 247.3350 178.337 395.465 357.726 347.236  381.0020
## ORI_14617_14591 231.262  96.9933 166.305 127.063 209.700 376.822  382.1700
## ORI_14623_14594 486.463 159.5580 137.061 165.387 303.455 434.775  897.5870
## ORI_14629_14597 328.529 384.5310 152.687 337.851 147.124 476.947  589.0940
## ORI_14631_14598 300.821 255.5660 143.386 330.589 262.464 379.701  337.2810
## ORI_14633_14599 427.589 128.1620 218.727 273.053 181.296 450.992  892.8780
## ORI_14635_14600 562.547 132.9720 258.643 271.934 575.273 452.664  519.5280
## ORI_14639_14602 294.644 223.2670 203.268 421.188 433.284 480.046  547.0510
##                 [,2876]  [,2877] [,2878]  [,2879]  [,2880]  [,2881]  [,2882]
## ORI_10219_10218 510.522 308.5990 336.264  336.699 321.9250 397.2950  961.981
## ORI_10735_10730 373.161 309.2880 347.574  933.970 283.6320  90.0425  242.047
## ORI_14605_14585 408.989 158.6500 270.054  649.927 351.0670 123.2590  817.468
## ORI_14607_14586 334.312 139.2730 321.154 1097.120 437.4910 275.0490  428.785
## ORI_14609_14587 287.439 103.2800 293.730  769.710 410.3290  87.4432  392.884
## ORI_14617_14591 397.721 293.9780 217.288  295.577 100.4460 318.0730  822.140
## ORI_14623_14594 337.173 238.6690 281.725  296.788 125.3070 234.7360  655.126
## ORI_14629_14597 323.435 122.7750 323.776  634.037 155.6160 127.0440  419.728
## ORI_14631_14598 353.693  84.0174 307.011  678.906 274.5680 156.1850  351.801
```

```
## ORI_14633_14599 357.101 163.7680 334.019  616.339 224.5700 176.1260  350.232
## ORI_14635_14600 299.696 160.4560 370.202  401.665 158.0410 173.6130  520.011
## ORI_14639_14602 323.056 385.9780 381.324  497.813  70.9373 137.3160  273.811
##                 [,2883] [,2884]  [,2885]  [,2886]  [,2887]   [,2888] [,2889]
## ORI_10219_10218 204.294 316.679 1702.630 134.4440  77.0650  140.9570 299.802
## ORI_10735_10730 265.332 338.575  934.145 171.8340 239.5200  208.9790 548.709
## ORI_14605_14585 254.642 359.769 1182.670 262.0960 145.4380  280.6760 283.385
## ORI_14607_14586 145.649 496.406 1396.710 127.8400 349.3090  852.2280 438.136
## ORI_14609_14587 273.702 338.453 1187.150 473.0690 210.7130  315.4250 506.091
## ORI_14617_14591 217.254 336.131 1707.160 142.8630  91.9561   54.3118 278.595
## ORI_14623_14594 218.493 304.479 1663.710 203.4720  94.5370  105.3660 342.536
## ORI_14629_14597 122.459 290.772 1435.130 299.9870 115.0240   94.7494 351.151
## ORI_14631_14598 365.179 372.650  832.582 233.7070 253.4240  294.4120 275.383
## ORI_14633_14599 205.330 323.805 1031.920 101.6990 179.0090  112.4190 512.722
## ORI_14635_14600 210.950 400.932  884.919  77.1185 132.6140  105.5510 400.196
## ORI_14639_14602 268.956 261.726  894.724  69.9213 171.7230   98.3958 413.142
##                  [,2890]  [,2891]  [,2892] [,2893] [,2894]  [,2895]  [,2896]
## ORI_10219_10218 201.9300 135.3850 158.2130 314.781 292.026 1010.310 327.4800
## ORI_10735_10730 501.8520 362.2560 160.4170 226.896 342.750  639.030 152.3070
## ORI_14605_14585 393.1060 144.1430 185.5940 189.180 290.153  785.396 435.7240
## ORI_14607_14586 489.5690  92.3710 100.7310 253.654 256.228  742.664 150.8550
## ORI_14609_14587 736.7550 184.3860 386.6270 195.600 525.497  813.304 304.0930
## ORI_14617_14591 217.4080 120.1180  76.6919 203.002 322.321 1120.410 202.1730
## ORI_14623_14594 271.2700 178.7600 138.8710 170.915 264.766  800.388 212.7910
## ORI_14629_14597 485.4920 175.3410 177.7530 194.318 139.894  719.260 102.2520
## ORI_14631_14598 412.6770 225.1700 177.4610 190.024 267.739  747.266 103.2790
## ORI_14633_14599 515.5200 251.5300 118.9000 139.570 363.770 1080.310 154.0190
## ORI_14635_14600 360.0430 203.3170  97.3082 148.836 545.915  668.695 151.6640
## ORI_14639_14602 479.5970 224.1430  82.0663 143.852 274.957  838.674  70.9986
##                  [,2897]  [,2898]  [,2899] [,2900] [,2901] [,2902]  [,2903]
## ORI_10219_10218  642.695  426.836  84.0334 581.643 315.030 494.269 264.4560
## ORI_10735_10730 1130.470  561.226 109.0930 560.885 390.975 401.032 242.3720
## ORI_14605_14585 1095.820  693.347  83.1784 598.002 329.878 529.114 430.8620
## ORI_14607_14586  904.107  803.344 141.9280 493.400 228.744 470.202 199.7360
## ORI_14609_14587 1368.830  751.314 123.6910 506.833 219.947 529.463 598.4210
## ORI_14617_14591 1005.950  365.225  24.6827 380.775 254.093 602.977 230.0840
## ORI_14623_14594  631.302  523.705 118.2750 649.315 340.357 527.233 583.3730
## ORI_14629_14597  514.006  670.399 108.3030 501.048 339.818 424.781 329.9860
## ORI_14631_14598 1063.990  862.189  87.1967 503.764 268.196 587.233 440.0470
## ORI_14633_14599  936.346  609.681  68.2778 633.475 417.736 370.430 511.3890
## ORI_14635_14600  677.585  507.676  74.1046 621.609 265.775 487.295 719.1030
## ORI_14639_14602  381.486  453.401  59.9253 460.638 316.603 359.949 424.4920
##                  [,2904] [,2905]  [,2906] [,2907]  [,2908] [,2909]  [,2910]
## ORI_10219_10218 322.7210 143.253 379.0080 380.737  387.698 362.036 129.2200
## ORI_10735_10730 396.2060 179.488 141.0830 408.776  757.779 172.287 152.5170
## ORI_14605_14585 316.1450 172.656 313.6360 376.995  476.049 248.655 129.1490
## ORI_14607_14586 231.1100 140.519 260.1310 390.541  493.700 327.381 101.4570
## ORI_14609_14587 171.1680 223.351 407.2290 229.343  597.584 207.699 147.1260
## ORI_14617_14591 251.1730 175.925 287.0010 358.532  383.657 268.605  84.4464
## ORI_14623_14594 443.7830 116.222 409.7640 405.134  406.925 293.134 145.3000
## ORI_14629_14597 230.5190 155.771 414.9480 338.728  803.295 265.907 326.0100
## ORI_14631_14598 334.0870 141.425 367.7590 340.851  800.422 227.617 186.8430
## ORI_14633_14599 252.8690 335.085 267.2250 346.574  351.902 269.758 151.1560
## ORI_14635_14600 335.2750 236.715 403.8030 299.681  251.258 302.504 149.2770
```

```
## ORI_14639_14602 334.6180 143.307 379.1500 192.417  252.557 228.545 154.2140
##                  [,2911]  [,2912]  [,2913] [,2914]  [,2915]  [,2916]  [,2917]
## ORI_10219_10218 1915.630 217.9350  441.958 669.203 1097.220  745.692 1529.410
## ORI_10735_10730  477.586 260.7890  352.156 407.233 1035.800  740.084 1412.120
## ORI_14605_14585 1081.990 254.0930  737.773 513.410 1005.800  647.196 1522.540
## ORI_14607_14586 1516.760 137.9460  204.750 451.926  720.320  583.659 1332.220
## ORI_14609_14587  493.703 281.9280  548.419 394.158  871.872  866.253  994.387
## ORI_14617_14591  747.466 301.8890  427.846 785.748  831.625  774.688 1116.050
## ORI_14623_14594 1058.070 191.7960  563.930 657.643  611.932  479.197 1578.620
## ORI_14629_14597 1855.070 336.5480  261.222 513.907  904.924  526.618 1434.630
## ORI_14631_14598  959.629 266.3120  282.594 426.080  941.804  835.450 1210.200
## ORI_14633_14599 1915.130 386.7500  299.911 596.050 1009.020  657.203 1444.400
## ORI_14635_14600  961.788 303.6560  457.307 581.859  946.840  744.789 1379.920
## ORI_14639_14602  868.427 200.8770  369.800 451.094 1188.680  629.746 1239.310
##                  [,2918] [,2919] [,2920] [,2921] [,2922]  [,2923]  [,2924]
## ORI_10219_10218 1000.740 247.739 514.978 772.026 265.034 265.0650 144.3640
## ORI_10735_10730  782.189 557.214 497.733 506.406 490.087 138.7660 200.9990
## ORI_14605_14585  622.639 355.318 588.508 564.685 378.760  58.1314 387.2440
## ORI_14607_14586  670.202 510.257 476.978 826.259 500.608  86.5378 385.1430
## ORI_14609_14587  400.560 502.351 814.616 747.499 527.651 223.2920 409.1350
## ORI_14617_14591  479.907 289.533 528.912 523.553 190.527 192.9060 346.7080
## ORI_14623_14594  966.524 234.163 466.558 659.008 292.168  86.0143 280.4500
## ORI_14629_14597  904.213 292.912 388.371 896.161 496.006  84.7869 431.3370
## ORI_14631_14598  616.462 403.418 706.332 830.390 425.429 104.8880 432.5100
## ORI_14633_14599  798.883 443.829 715.349 470.755 486.879  95.8717 221.2030
## ORI_14635_14600  700.797 282.461 633.923 397.982 542.482 149.5660 188.7970
## ORI_14639_14602  642.902 341.980 600.158 501.942 280.187 202.4650 246.8380
##                  [,2925]  [,2926]  [,2927] [,2928] [,2929]  [,2930] [,2931]
## ORI_10219_10218  623.837  875.245 113.4710 261.468 480.618 278.8130 302.478
## ORI_10735_10730  804.758  464.096 239.0870 313.737 290.204 149.0180 254.130
## ORI_14605_14585  901.878  350.723  54.4914 300.644 504.830 216.4590 295.341
## ORI_14607_14586  522.202  486.699  51.7286 322.351 389.931  76.7047 351.374
## ORI_14609_14587  868.236  456.987  89.2265 362.677 435.928 178.9870 292.532
## ORI_14617_14591  764.670 1025.270  88.7281 154.789 389.981 115.7600 305.843
## ORI_14623_14594  653.495  530.351  40.9153 223.970 599.144  92.7638 426.873
## ORI_14629_14597  676.460  401.086 888.4380 245.335 546.530  48.8728 408.251
## ORI_14631_14598  768.089  465.665 108.2680 290.922 451.729 129.3330 286.928
## ORI_14633_14599  779.329  424.546  81.8096 405.876 479.473 234.1970 396.299
## ORI_14635_14600  894.403  450.054  70.4512 322.465 577.309  95.1493 353.518
## ORI_14639_14602  509.872  376.805  56.5880 320.246 469.318  40.3872 378.266
##                  [,2932] [,2933]  [,2934] [,2935]   [,2936]  [,2937]  [,2938]
## ORI_10219_10218 1895.960 216.078  525.999 281.765  254.3860 1786.320  598.844
## ORI_10735_10730 2952.080 350.844 1696.000 338.384  507.7230 2470.210  950.299
## ORI_14605_14585 1601.100 310.279  698.609 344.109  386.3110 1766.830  548.812
## ORI_14607_14586 2300.070 339.297 1536.680 516.163  176.2500 2203.470  672.787
## ORI_14609_14587 1628.960 274.769 1384.710 372.317  657.6240 1704.770  457.497
## ORI_14617_14591 2010.150 193.528  334.937 260.939   68.5361 1667.910  471.576
## ORI_14623_14594 1276.580 261.495  598.553 345.848  146.8420 1457.710  456.558
## ORI_14629_14597 3912.900 423.102 1151.090 208.251  224.3380 1058.440  824.143
## ORI_14631_14598 2123.080 278.111 1371.700 336.360  343.7540 1599.820  665.974
## ORI_14633_14599 1189.230 323.176  992.530 265.527  137.6840 1554.260  542.042
## ORI_14635_14600 1094.370 256.728  707.985 276.564  159.6170 1223.010  397.759
## ORI_14639_14602 2246.390 236.573 1093.240 321.053  133.2080 1451.800  418.407
##                  [,2939]   [,2940]  [,2941]  [,2942]  [,2943]  [,2944]  [,2945]
```

```
## ORI_10219_10218 282.2850  559.4390 268.1720 191.9320 151.0060  98.6442  284.487
## ORI_10735_10730 136.2080  423.0400 146.4650 139.3720  88.9843  83.1630  417.061
## ORI_14605_14585 220.5760  237.4130 144.6600 105.1370 239.3210 137.9890  538.125
## ORI_14607_14586 100.6040 1099.9900 241.1880 295.0570 434.8510  88.1266 1106.140
## ORI_14609_14587 191.4340  302.5390 147.1260 218.5710 195.1110  84.2128  612.509
## ORI_14617_14591 184.6030  755.4140 289.9740 103.8380 101.5710  57.2497  208.607
## ORI_14623_14594 298.3630  348.3420 327.1760 174.2430 240.6390 107.9840  328.335
## ORI_14629_14597 178.3080   89.7357 277.4770 111.2150 112.7840 100.7280  307.050
## ORI_14631_14598 207.3790  256.8840 120.5090 130.7750 214.8560  99.6006  374.288
## ORI_14633_14599 268.5770  194.6240 139.2510 115.3470 155.7010 102.1130  351.985
## ORI_14635_14600 171.7110  155.3120 178.3210 122.6660 141.7910 104.4870  343.185
## ORI_14639_14602 295.5650  146.7470 203.1200  85.2564 119.0720 583.4770  343.204
##                 [,2946]  [,2947] [,2948]  [,2949]  [,2950] [,2951]  [,2952]
## ORI_10219_10218 507.736  510.344 459.674 101.5050  904.129 380.456  750.189
## ORI_10735_10730 430.414 3701.500 473.497 148.0590  710.989 748.644  655.771
## ORI_14605_14585 415.889 1795.780 536.901 165.4580 1142.910 500.824 1277.420
## ORI_14607_14586 404.374 6479.840 423.916 256.2470 1041.490 490.242 1316.120
## ORI_14609_14587 554.193 3078.030 523.442 107.9070  963.672 527.562 1476.930
## ORI_14617_14591 530.294 1237.130 458.486  46.4887  944.910 401.563 1331.240
## ORI_14623_14594 413.052 1196.650 306.016 124.9850  755.520 379.695 1379.080
## ORI_14629_14597 409.296 1734.840 620.888  41.7945  920.889 697.101 1278.750
## ORI_14631_14598 484.270 4319.120 538.093 146.0660  672.765 362.864 1377.960
## ORI_14633_14599 526.300 1524.660 429.935 244.2650  693.719 374.502 1094.600
## ORI_14635_14600 561.457 1970.370 381.519 112.6300  728.733 338.114  895.983
## ORI_14639_14602 421.295 2919.510 612.226  54.4439  487.038 523.150  872.943
##                  [,2953]  [,2954]  [,2955]  [,2956] [,2957]  [,2958]  [,2959]
## ORI_10219_10218  360.988 332.8580 267.8200 1132.980 238.452 481.8670  249.960
## ORI_10735_10730  647.483 450.6900 407.3750 1167.980 221.475 102.1350  347.423
## ORI_14605_14585  587.222 375.7820 243.8490 1346.960 235.213 638.2500 1168.790
## ORI_14607_14586  573.167 366.7860 138.4330  989.349 144.031 119.1710 1994.410
## ORI_14609_14587  882.730 852.6650 254.8470 1239.860 132.957 217.5430  378.493
## ORI_14617_14591  535.306 402.2370 237.5000 1001.530 133.512 211.5410  195.107
## ORI_14623_14594  485.747 204.7250 141.3870  795.062 244.158 216.6890  196.140
## ORI_14629_14597  734.016 349.7720 324.8580 1010.630 202.862  94.9091  141.416
## ORI_14631_14598  645.067 558.4380 366.9280 1248.810 192.968  68.8094  718.152
## ORI_14633_14599  927.047 405.6560 200.6790 1254.530 349.459 201.4840  509.133
## ORI_14635_14600  684.182 333.7030  98.4444  930.838 304.561 255.2240  401.955
## ORI_14639_14602  730.663 372.9140 161.3430  712.162 261.937  78.7273  178.692
##                  [,2960]   [,2961]  [,2962]  [,2963]  [,2964] [,2965]  [,2966]
## ORI_10219_10218 1893.570  859.8230 189.7370  71.3911  97.8481 179.001  45.7415
## ORI_10735_10730 1655.210   24.6827 182.9680 192.4090  44.9863 227.811 467.3210
## ORI_14605_14585 1739.310  384.6540 170.4900 102.0830  69.9130 262.140 194.2750
## ORI_14607_14586 4191.030 1367.4900  98.2202 156.8290  95.2005 765.970 360.2990
## ORI_14609_14587 2091.170  412.0490 122.1980 130.6700 104.4630 371.235 154.1790
## ORI_14617_14591  681.048   24.6827  63.9261  35.3474  89.5956 108.471 154.9580
## ORI_14623_14594  630.363  208.9780 205.1190 104.3560 106.5260 203.503 138.4630
## ORI_14629_14597 1017.530   24.6827 257.1190  97.6752  83.7549 148.918 265.2810
## ORI_14631_14598  875.194  126.4440 198.0860  88.9775  55.2627 361.900 288.2060
## ORI_14633_14599 1066.740   24.6827 129.6920  98.0932 222.9470 198.280 351.3760
## ORI_14635_14600  604.345   24.6827 131.9150 128.7110  58.9295 172.418 246.1500
## ORI_14639_14602 1320.480   24.6827 192.2250 106.2920  72.4695 206.086 363.0610
##                  [,2967] [,2968]   [,2969]   [,2970] [,2971] [,2972] [,2973]
## ORI_10219_10218 306.3530 212.564 2538.8700   33.8531 457.366 552.117 269.587
## ORI_10735_10730 188.5170 361.780 3703.2800  136.4430 379.146 891.372 300.814
```

```
## ORI_14605_14585 220.5830 236.239 1153.5400  181.0710 441.518 547.395 253.430
## ORI_14607_14586  96.5951 212.430 1565.8700   70.1850 583.622 642.361 185.689
## ORI_14609_14587 156.3130 195.901 3735.0600  356.2470 417.123 781.199 251.048
## ORI_14617_14591  83.2842 140.743 2661.0100   60.3114 471.618 969.469 155.474
## ORI_14623_14594 217.7810 285.691 2160.4000   44.1844 566.762 690.212 233.342
## ORI_14629_14597 177.8600 276.153 2935.6100   62.6127 537.856 851.605 329.834
## ORI_14631_14598 170.4890 275.595 1417.9800  129.7370 421.457 783.004 203.930
## ORI_14633_14599 231.2220 291.973 1503.0800   39.8921 420.132 802.218 377.107
## ORI_14635_14600 226.2810 257.168 2202.9400   44.4550 509.048 713.241 214.498
## ORI_14639_14602 233.4250 292.100  651.5650   56.4737 430.429 522.200 351.379
##                   [,2974] [,2975]  [,2976] [,2977]   [,2978] [,2979]  [,2980]
## ORI_10219_10218   24.6827 204.025  728.901 242.004  372.9560 327.947 228.1420
## ORI_10735_10730  552.4910 453.682  966.756 352.723  481.5820 305.111 173.4390
## ORI_14605_14585  308.0860 270.144  917.299 269.970  482.9640 377.080 348.3350
## ORI_14607_14586   52.9946 290.942  868.865 388.176 1445.4700 441.035 324.0200
## ORI_14609_14587  129.7060 722.710  993.380 286.242 1009.2900 415.031 174.3940
## ORI_14617_14591   50.0781 337.309 1199.470 238.340  118.6100 516.905 457.2210
## ORI_14623_14594  508.4870 344.307 1030.160 282.300   78.3887 352.377 278.7650
## ORI_14629_14597  250.1030 215.274  684.085 408.368  193.3270 348.268 120.2800
## ORI_14631_14598  275.6860 589.170  857.996 298.592  669.4230 447.275 134.2470
## ORI_14633_14599  144.3560 245.748  929.686 330.900  471.1020 227.039 171.5500
## ORI_14635_14600  417.2000 600.518 1558.840 339.186  322.6380 304.838 298.0490
## ORI_14639_14602  600.2420 239.792  709.594 336.256  172.1380 180.900 240.2630
##                  [,2981] [,2982] [,2983]  [,2984]   [,2985]   [,2986]  [,2987]
## ORI_10219_10218 397.3220 289.158 477.707 176.4220  121.5210  847.3090 328.6020
## ORI_10735_10730 200.5510 349.998 364.054  85.7804  269.5940 1672.7500 276.4420
## ORI_14605_14585  70.9103 197.701 758.772 236.9460 1163.5300 1191.9700 211.4360
## ORI_14607_14586  98.6619 426.104 541.031 204.7710  822.3730  793.9380  88.2550
## ORI_14609_14587 122.7370 383.109 432.287 171.0790  551.4850  611.2880  96.2348
## ORI_14617_14591 192.1370 285.702 692.694 140.5450   94.5593  697.6590 380.0070
## ORI_14623_14594 264.3980 169.357 571.325 260.1970  240.3230  576.4050 352.4030
## ORI_14629_14597  74.4162 282.400 776.829 102.9350  129.6350  948.4010 173.8990
## ORI_14631_14598 122.3060 288.226 466.348 120.0560  266.6180  522.1400 177.4320
## ORI_14633_14599 105.0300 370.827 934.556 160.5620  126.1190 1026.3400 313.6960
## ORI_14635_14600  83.2960 259.314 582.199 206.9410   83.6664  491.6320 419.1230
## ORI_14639_14602 129.1630 465.443 548.957  54.4810  121.5050 1008.9900 278.3580
##                 [,2988]  [,2989]  [,2990] [,2991]   [,2992] [,2993] [,2994]
## ORI_10219_10218 303.965  431.810 124.5330 7039.96  541.9370 6689.37 5197.97
## ORI_10735_10730 303.231 1636.800 186.9410 5365.24  206.0110 5570.50 6049.30
## ORI_14605_14585 315.192 1167.210 146.2590 5787.42  304.3000 5533.21 6623.00
## ORI_14607_14586 257.783 2762.360 328.1050 7573.30  373.6630 7401.65 7133.81
## ORI_14609_14587 195.198 2143.930 173.3360 6667.55 1311.5000 6903.92 6727.19
## ORI_14617_14591 223.164  481.101  90.7948 4168.51  286.3800 5014.20 4151.60
## ORI_14623_14594 357.994  350.656 138.3320 4814.39  291.8290 4669.04 3904.22
## ORI_14629_14597 291.477  846.140 199.3970 4976.22  826.3300 5099.04 4010.76
## ORI_14631_14598 289.297 1812.140 268.3850 6578.89 1279.6900 6110.67 6053.74
## ORI_14633_14599 317.730  556.372 142.6800 6358.73  352.2300 6355.01 5469.15
## ORI_14635_14600 240.961  349.016 123.8740 4032.16  163.8860 4092.67 4379.16
## ORI_14639_14602 236.603  892.076 171.1920 4154.49  104.3030 4218.21 3886.26
##                  [,2995]  [,2996]  [,2997] [,2998] [,2999] [,3000] [,3001]
## ORI_10219_10218 1116.780  603.562  290.115 295.579 319.197 221.976 202.347
## ORI_10735_10730  860.728  500.942  470.728 458.292 438.480 258.874 458.272
## ORI_14605_14585 1207.040  610.070  325.666 302.515 430.653 298.753 289.671
## ORI_14607_14586 1005.810  451.924  380.958 185.514 332.380 337.549 265.014
```

```
## ORI_14609_14587 1085.730  763.757  348.558 560.578 431.598 224.669 458.682
## ORI_14617_14591 1448.710 1032.200  356.493 255.864 313.335 299.493 306.964
## ORI_14623_14594 1021.530  565.308  251.940 162.855 306.614 201.443 239.261
## ORI_14629_14597  680.841  313.805  371.874 427.428 454.129 182.394 444.066
## ORI_14631_14598 1210.480  573.420  372.323 552.105 480.306 302.632 563.713
## ORI_14633_14599 1011.130  621.107  358.112 277.285 396.003 240.826 511.918
## ORI_14635_14600 1165.070  616.825  300.101 312.680 652.380 358.925 573.162
## ORI_14639_14602  859.548  402.096  412.765 296.826 549.328 132.502 485.659
##                   [,3002] [,3003]  [,3004] [,3005]  [,3006]  [,3007] [,3008]
## ORI_10219_10218  282.8350 246.045  652.801 411.509  85.7541 343.4160 587.153
## ORI_10735_10730  337.5200 211.061 1134.750 457.819  80.0124 421.0230 304.016
## ORI_14605_14585  667.3570 263.549 1270.200 460.375  86.1140 401.7280 618.397
## ORI_14607_14586 1387.3800 261.486 1116.080 312.412 225.0770 213.6460 598.720
## ORI_14609_14587  691.8250 184.127 1098.480 354.374 119.8330 136.1220 530.499
## ORI_14617_14591  257.4970 310.072 1046.920 290.635 147.8660 194.4570 520.862
## ORI_14623_14594  194.5620 270.117 1383.370 487.802 136.9880 476.0550 830.329
## ORI_14629_14597  372.5860 234.941 1649.920 492.347 115.3060 294.3200 768.446
## ORI_14631_14598  759.3350 219.614 1125.570 485.393 109.3140 258.7870 532.168
## ORI_14633_14599  243.5900 219.911 1272.480 527.628 139.8190 264.4730 704.507
## ORI_14635_14600  257.3400 221.972 1353.950 502.278 118.8740 388.6810 676.005
## ORI_14639_14602   97.5284 194.847 1635.480 472.778 124.0390 482.5030 638.762
##                 [,3009] [,3010] [,3011] [,3012]   [,3013]  [,3014]  [,3015]
## ORI_10219_10218 867.267 299.746 394.148 291.953  799.6430  420.509 3937.260
## ORI_10735_10730 470.568 310.431 666.815 411.724   58.5327  428.532 3227.700
## ORI_14605_14585 646.569 401.774 681.183 200.917  334.2420  626.631 3233.910
## ORI_14607_14586 436.105 355.186 536.070 308.436  570.9930 1363.380 1614.740
## ORI_14609_14587 671.517 415.666 682.243 311.214  536.9850  725.510 1732.170
## ORI_14617_14591 408.983 200.792 382.382 324.357  534.0220  180.452 3178.540
## ORI_14623_14594 383.912 240.554 236.657 596.322  345.5180  319.880 3473.190
## ORI_14629_14597 614.838 368.025 701.531 469.891  185.8950  275.609 1316.060
## ORI_14631_14598 325.511 450.837 518.296 429.340  656.5220  507.711 2258.480
## ORI_14633_14599 378.728 307.445 559.324 387.408   94.7909  344.332 4533.710
## ORI_14635_14600 256.235 254.952 502.225 504.835  151.1820  363.458 3561.270
## ORI_14639_14602 274.259 253.683 601.592 391.236  329.1020  406.668 2867.280
##                   [,3016]   [,3017]  [,3018] [,3019]   [,3020]  [,3021]
## ORI_10219_10218  627.8220   77.9143  785.173 3002.18  128.0220  44.4631
## ORI_10735_10730  110.7040  102.6440  868.603 2080.03  420.3290 123.4600
## ORI_14605_14585   90.7465   97.5836  703.585 3085.00  157.1080  78.0586
## ORI_14607_14586  137.6780  214.8130  832.099 1988.68  443.0610 161.3420
## ORI_14609_14587   89.8837   24.6827  592.865 2505.79  520.9450 107.5180
## ORI_14617_14591  353.9220   87.9198  394.461 2226.47   53.8880  24.6827
## ORI_14623_14594  190.0640   92.0826  661.429 3026.79  117.5130  34.0033
## ORI_14629_14597   65.7117   24.6827  594.578 1893.53  161.0190 103.6460
## ORI_14631_14598   99.6514  231.9200  598.640 2745.73  209.4040 111.9010
## ORI_14633_14599  330.5290   77.7187  743.187 3433.43  168.2570  69.2903
## ORI_14635_14600  136.3190   45.9606  533.550 2514.15   66.5199  29.4541
## ORI_14639_14602  396.8680   88.1213  500.481 1644.46  205.3710  56.0123
##                  [,3022]  [,3023]   [,3024]   [,3025]  [,3026]  [,3027]
## ORI_10219_10218 192.3110 143.5500   43.5270  241.5810  327.740  437.317
## ORI_10735_10730 578.1970 239.2970  472.5550  249.6900  628.735 1092.760
## ORI_14605_14585 209.5190 106.8950   56.5488   77.7026  751.190 2339.540
## ORI_14607_14586 115.9130 252.0610  368.7690 1621.5400  388.314 1051.180
## ORI_14609_14587 377.1790 137.9990  461.4540  248.9710  603.065 1623.220
## ORI_14617_14591 233.4120 102.6320   33.8408   52.2484  296.427 1016.610
```

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## ORI_14623_14594 216.2370 105.8590   30.2342   49.4529  230.872  667.859
## ORI_14629_14597 396.3750 664.9970  411.6200  392.0760  491.142  247.214
## ORI_14631_14598 198.7390 459.1720  316.7520  321.0890  754.299  486.164
## ORI_14633_14599 189.5510 112.9000   25.1908   32.4115  458.252  216.977
## ORI_14635_14600 264.4760  87.7250   42.0667   52.1393  419.605  540.047
## ORI_14639_14602 120.2040 323.0660   37.7813   65.7843  605.776  182.127
##                   [,3028]  [,3029]  [,3030]  [,3031]  [,3032]  [,3033]  [,3034]
## ORI_10219_10218  152.1600 1094.610  495.188  917.056  461.023 179.3520  770.731
## ORI_10735_10730  280.8560 1440.590  818.350  678.375  699.039 172.8870  810.805
## ORI_14605_14585  269.8010 1372.980  795.619  468.825  791.136 153.5590  935.940
## ORI_14607_14586  442.3670 1234.740  958.713  578.490  697.354 187.7850 1164.410
## ORI_14609_14587  697.7260 1300.820 1124.480  614.050  863.963 178.2040 1408.140
## ORI_14617_14591  148.5020 1393.120  771.017 1099.940  526.350  98.1461  939.306
## ORI_14623_14594  552.1850  790.178  743.312  665.912  484.204  63.3619  703.770
## ORI_14629_14597  241.5470  751.971 1079.920  495.264  932.822 229.4420 1319.520
## ORI_14631_14598  332.4980 1370.220 1178.480  696.941  874.771 201.8280 1440.270
## ORI_14633_14599   49.2913 1326.290 1084.160  400.348  750.895 123.5260 1155.560
## ORI_14635_14600   70.8515  916.221  889.568  659.677  455.350  83.6701 1149.270
## ORI_14639_14602   38.2175 1273.380  868.516  613.775  774.893 103.7540 1170.220
##                  [,3035]   [,3036]  [,3037] [,3038] [,3039]  [,3040]  [,3041]
## ORI_10219_10218  299.075  133.2930 1014.500 3468.48 2375.84 1617.170 577.4640
## ORI_10735_10730  675.034 1010.5800  749.124 3267.95 1528.18  844.325  31.7578
## ORI_14605_14585  590.080  126.6990 1225.180 3669.52 2862.92  695.232  89.2073
## ORI_14607_14586  644.428   79.4415  862.067 3716.17 2224.92  875.105 204.8190
## ORI_14609_14587  683.796  153.5840  951.698 3208.76 2646.18  447.451 105.1690
## ORI_14617_14591  205.731   67.6138  993.117 2840.39 2591.00 1800.600 478.4120
## ORI_14623_14594  253.258  119.7860  738.137 2910.52 2422.26 1504.630 245.2010
## ORI_14629_14597  393.877   74.7700  677.268 2791.66 2151.37  692.160  81.8416
## ORI_14631_14598  538.994  104.1020  681.412 3294.61 2881.97  518.698  89.4768
## ORI_14633_14599  489.015  170.8290 1325.410 3701.75 2712.32 1095.990 141.0640
## ORI_14635_14600  396.619  159.5090 1025.240 2872.09 2486.60  905.644 133.1470
## ORI_14639_14602  372.867  126.6580  986.189 1632.59 1806.05  428.814  99.4671
##                  [,3042]   [,3043]  [,3044]  [,3045]   [,3046]  [,3047]
## ORI_10219_10218 673.0580 1203.6500 396.3730 360.5060 1002.7100  827.748
## ORI_10735_10730  34.3498  182.7380  43.4293  84.6712  241.1500  373.270
## ORI_14605_14585  64.3664  232.9920  69.1119 134.3420  114.3910  524.794
## ORI_14607_14586 374.6210  482.7140 199.5650 168.0150  732.8000  440.023
## ORI_14609_14587 143.0500  477.8570  69.9455  99.8652  369.3900  306.531
## ORI_14617_14591 457.7960 1086.9200 442.9920 235.2550 1861.4700  857.737
## ORI_14623_14594 420.3640  638.0420 177.3890 186.6970  846.4630  828.028
## ORI_14629_14597  42.6084  110.7090  90.5690 166.3050  298.9830  376.740
## ORI_14631_14598  71.7207  266.1110  79.3587  94.7530  122.7470  449.421
## ORI_14633_14599 101.3710  269.2920 181.4610 195.9240  638.1800  585.833
## ORI_14635_14600  82.7268  253.6950 172.9180 174.5020  845.2980  547.026
## ORI_14639_14602 116.6650  153.9670 198.7680 134.7620  632.4570  545.365
##                  [,3048]   [,3049]  [,3050] [,3051] [,3052]  [,3053]  [,3054]
## ORI_10219_10218  212.400  836.1250 126.7780 303.443 402.262  864.904  58.4280
## ORI_10735_10730  792.827  925.0510 132.8430 362.128 220.142  792.778 194.1950
## ORI_14605_14585  343.945  980.4070 250.0680 310.973 209.623  768.776  50.4469
## ORI_14607_14586  749.631 2024.9700 107.4150 320.003 336.154  866.589  53.6862
## ORI_14609_14587 1278.650 1833.7100 138.4040 373.408 276.052  932.512  33.6765
## ORI_14617_14591  449.327  422.3940 269.9900 323.383 369.186  988.902  38.9039
## ORI_14623_14594  432.287  788.8890 296.1630 257.991 271.047  864.624  73.3123
## ORI_14629_14597 1016.860  290.9610  28.0393 362.108 274.056  737.596  46.7360
```

```
## ORI_14631_14598  692.022 1231.2100  91.9016 313.358 319.880  833.934 206.4760
## ORI_14633_14599  685.957  550.5220 274.8970 536.747 216.744  752.518  70.1682
## ORI_14635_14600  476.359  341.2670 297.0880 249.379 228.255  777.967  56.7366
## ORI_14639_14602  496.432  414.4820  46.3498 422.880 231.341  725.612  62.1976
##                  [,3055]  [,3056]   [,3057]  [,3058]  [,3059]  [,3060] [,3061]
## ORI_10219_10218 258.1440  247.207  670.5740  584.564  538.553  87.9435 216.612
## ORI_10735_10730  24.6827  682.871  750.6370  527.687  690.422 220.4470 336.641
## ORI_14605_14585 207.5710  821.024  623.7560  552.560  586.705 160.2900 276.028
## ORI_14607_14586  24.6827  557.013  753.0250  342.962 1236.800 341.9620 370.661
## ORI_14609_14587  71.7987  583.454 1039.5500  427.363  715.673 318.2880 328.826
## ORI_14617_14591  31.3118  117.860  535.4840  406.108  566.275 121.9170 198.296
## ORI_14623_14594  24.6827  214.281  290.7690  515.788  405.308 134.9990 187.515
## ORI_14629_14597  24.6827  398.488  852.3160  611.523  339.722 171.1800 333.101
## ORI_14631_14598  26.8077  602.222  506.7930  478.562  578.017 229.9840 353.039
## ORI_14633_14599  38.2647  545.338  564.0460  674.124  372.153 209.8100 275.829
## ORI_14635_14600  24.6827  367.045  305.9300  506.735  496.171 159.6880 249.742
## ORI_14639_14602 126.4710  319.261  321.7060  508.661  204.697 191.2440 197.662
##                  [,3062] [,3063] [,3064] [,3065]  [,3066] [,3067]  [,3068]
## ORI_10219_10218  645.879 209.092 549.034 284.180  594.520 248.547 400.0370
## ORI_10735_10730  617.398 402.187 265.415 501.515 1105.260 365.791 320.5270
## ORI_14605_14585  794.021 517.377 250.074 303.302  613.401 482.697 326.1410
## ORI_14607_14586  774.640 512.706 456.667 435.977  994.466 200.740 178.6440
## ORI_14609_14587  730.752 725.311 480.425 457.141 1116.390 398.105 333.4380
## ORI_14617_14591  497.353 249.812 443.348 267.912  569.685 223.946 184.8220
## ORI_14623_14594  598.988 278.608 313.159 199.558  383.329 287.374 147.9850
## ORI_14629_14597  496.710 356.609 710.562 345.772  887.111 148.695 127.4420
## ORI_14631_14598  704.889 505.645 381.109 464.588 1047.620 380.549 318.1210
## ORI_14633_14599  663.327 625.802 240.058 325.610  776.579 220.510 219.4340
## ORI_14635_14600  581.325 358.042 172.749 232.742  469.575 416.238 112.8910
## ORI_14639_14602  543.157 318.551 236.811 281.032  505.274 319.945 119.7460
##                  [,3069]  [,3070]  [,3071] [,3072]   [,3073] [,3074]  [,3075]
## ORI_10219_10218  462.695 1453.390  8257.00 520.192  580.1840 373.339  946.503
## ORI_10735_10730 1122.300 2357.390  8941.60 340.394  466.0060 555.838 1322.590
## ORI_14605_14585  564.675  663.758  6744.61 421.300  179.3140 182.435  819.154
## ORI_14607_14586  854.190  938.429  9394.51 255.704  330.7990 222.774 1126.070
## ORI_14609_14587  761.969 1063.270  9700.42 517.006  215.6320 254.785 1479.090
## ORI_14617_14591  440.757 1486.400  8265.40 623.355  881.2300 165.588  988.447
## ORI_14623_14594  487.598  976.281  7585.87 359.630  581.0150 345.391  939.622
## ORI_14629_14597  806.427 2619.430  9148.56 295.158  194.9120 322.075  912.333
## ORI_14631_14598  977.441 1920.390  8796.17 218.120  193.2140 352.171 1549.320
## ORI_14633_14599  652.626 1807.180  8446.90 303.445  230.3170 287.519 1092.470
## ORI_14635_14600  742.984  766.230  7263.61 447.273  357.7500 288.790 1042.270
## ORI_14639_14602  762.674 1098.500  8165.23 279.946  227.8490 319.429 1166.110
##                  [,3076]   [,3077]  [,3078]  [,3079]  [,3080]  [,3081] [,3082]
## ORI_10219_10218 136.1240   49.1924  430.034 120.3310  680.069 2382.930 211.596
## ORI_10735_10730 243.5420  489.6300 1230.720 236.7560  600.211  838.047 202.598
## ORI_14605_14585 206.4550  276.1640  501.083 196.3530 1236.550 1599.540 233.175
## ORI_14607_14586 218.3710 1013.0000  499.725  82.5750 1855.930 1274.180 232.517
## ORI_14609_14587 209.3340  667.6780  660.712 304.8390  780.951 1317.700 235.537
## ORI_14617_14591 135.5320  447.4980  662.002 143.9060  659.817 2073.730 198.449
## ORI_14623_14594 219.2200  574.0560  452.309  96.5537  609.503 1181.400 276.083
## ORI_14629_14597 166.2990  372.1080  365.241 328.7790  565.149 1378.170 187.472
## ORI_14631_14598 282.1840  212.3320  744.551 222.2340  768.455 1158.880 243.902
## ORI_14633_14599 251.1480  518.6320  732.090 217.0350  697.180  628.624 363.917
```

```
## ORI_14635_14600 292.3580  383.2300  259.709 167.8040  551.178 1003.870 255.802
## ORI_14639_14602 213.6950 1175.4300  228.070 249.0110  369.765  507.143 243.861
##                  [,3083] [,3084]  [,3085]  [,3086]  [,3087]  [,3088] [,3089]
## ORI_10219_10218 1152.600 245.375 1032.520  552.796  535.910  339.467 259.081
## ORI_10735_10730  521.552 154.783 2144.040  795.966  747.090 1541.220 260.971
## ORI_14605_14585  539.611 280.042 1274.750  753.596 1178.090  649.750 161.454
## ORI_14607_14586  593.883 227.652 1132.230  831.582  372.042  927.895 246.604
## ORI_14609_14587  817.366 180.424 2380.360  468.984  903.164 1460.160 136.787
## ORI_14617_14591 1226.080 152.805 1292.960  445.775  588.957  515.665 215.565
## ORI_14623_14594  855.473 316.339  699.545  521.377  398.414  330.418 218.523
## ORI_14629_14597  562.338 255.162 2399.600  735.057  861.881  354.194 208.068
## ORI_14631_14598  475.634 255.774 1487.300  660.076  832.181 1265.920 143.333
## ORI_14633_14599  462.617 266.951  528.050  566.465  630.450  662.588 204.374
## ORI_14635_14600  512.707 273.911  723.376  475.554  572.449  563.621 218.582
## ORI_14639_14602  954.628 305.970 1368.550  323.014  464.278  372.449 249.764
##                   [,3090]   [,3091]  [,3092]  [,3093] [,3094] [,3095]  [,3096]
## ORI_10219_10218  224.0160  137.4010 1821.840 329.4900 504.037 300.774 1346.540
## ORI_10735_10730  625.8280  655.4000 1588.870 396.3150 351.919 282.404  758.003
## ORI_14605_14585  338.3670  177.5800 1429.480 423.4890 388.724 279.412  978.969
## ORI_14607_14586 1607.5600  892.9390 1752.800 541.8390 398.344 281.212 1057.080
## ORI_14609_14587 2047.4900  790.0040 1590.900 517.2550 319.015 301.734 1315.130
## ORI_14617_14591   93.0992   59.1069 2309.030 265.2850 295.910 200.242 1478.830
## ORI_14623_14594  207.6440   95.7583 1463.870 107.8140 422.847 342.136 1310.500
## ORI_14629_14597  190.7000  116.8520 1538.610 208.2250 419.994 394.349  976.313
## ORI_14631_14598  734.9100  277.0030 1086.890 199.8440 446.373 369.695  947.410
## ORI_14633_14599  203.4160  343.2100 1486.530 269.7850 527.403 292.146 1135.670
## ORI_14635_14600  198.6700  200.5900 1470.040 204.7000 402.311 386.554 1290.030
## ORI_14639_14602  109.1080   85.5808 1305.610 101.7710 420.295 408.425  780.146
##                  [,3097]  [,3098]  [,3099] [,3100]  [,3101]   [,3102]   [,3103]
## ORI_10219_10218 106.5980  601.763  504.155 579.112 1459.230 1566.5000   24.6827
## ORI_10735_10730 100.8600  378.753  672.060 459.797  909.625 1534.8000  103.4870
## ORI_14605_14585  89.1281  812.749  546.428 624.902 1707.350 2207.4700  114.8970
## ORI_14607_14586 313.9410  497.552  850.937 460.959  781.618  820.3160  178.9340
## ORI_14609_14587 279.0280  619.420  697.511 766.369 1608.810 3121.4100  170.9640
## ORI_14617_14591  52.1985  714.676  432.619 695.126 1376.000 1579.7100   24.6827
## ORI_14623_14594  59.6505  669.861  484.187 592.426 1483.980 1278.1500   36.0198
## ORI_14629_14597  40.3227  528.449  721.974 721.406 1371.190 1199.6800 2386.8600
## ORI_14631_14598 134.3020  641.204  957.653 476.348 1826.100 2352.8800  229.0420
## ORI_14633_14599  60.2099  652.381  472.482 585.746 1538.810 1546.1500   27.0462
## ORI_14635_14600  57.4322  826.336  434.463 686.908 1506.430  839.0300   27.9058
## ORI_14639_14602  39.2051  477.563  444.295 296.747 1016.190  602.7540   39.7105
##                 [,3104]  [,3105]  [,3106] [,3107]  [,3108]  [,3109] [,3110]
## ORI_10219_10218 231.622  24.6827 2665.630 1860.43  195.701  209.922 114.098
## ORI_10735_10730 303.334  40.1880 1638.180 2024.92  474.956  546.938 286.393
## ORI_14605_14585 206.680 120.5250 2079.060 1949.49  335.064  294.689 223.154
## ORI_14607_14586 218.557  24.6827 1700.560 2061.93  155.776  559.112 192.785
## ORI_14609_14587 180.001  37.5716 1713.960 1566.95  489.685 1083.890 328.753
## ORI_14617_14591 150.459 170.4880 2354.700 1573.29  165.090  293.103 123.374
## ORI_14623_14594 294.406 170.0270 1916.030 1731.85  274.408  253.118 182.986
## ORI_14629_14597 300.359  24.6827 2160.350 1061.03  293.701  199.383 203.255
## ORI_14631_14598 197.188 101.8450 2010.490 1535.62  496.943  337.546 340.206
## ORI_14633_14599 329.926  61.2575 2239.660 2107.32  339.367  646.797 223.752
## ORI_14635_14600 176.891 245.8070 1887.540 2397.74  292.032  236.404 377.457
## ORI_14639_14602 261.671  24.6827 1569.250 2032.63  171.607  228.361 259.691
```

```
##                  [,3111] [,3112] [,3113]   [,3114]  [,3115]  [,3116]  [,3117]
## ORI_10219_10218 144.9010 7431.84 474.000  593.7280  87.3849  494.000 238.6470
## ORI_10735_10730 284.0620 5815.11 356.020  265.4930 266.6130  820.832  63.1417
## ORI_14605_14585 160.1150 7212.81 373.677  180.0280 154.1810  321.671  66.6829
## ORI_14607_14586 173.1850 6773.60 325.383  470.5830 308.7970  600.875 104.9300
## ORI_14609_14587 225.3910 7568.64 226.254  355.1930 276.1410  719.690 184.2030
## ORI_14617_14591  88.2630 4236.77 207.862 1040.0300 158.9960  418.605 146.2660
## ORI_14623_14594  96.8217 5743.37 334.966  648.4710 179.5490  616.721  30.7226
## ORI_14629_14597  97.4057 4299.27 379.805  150.2880 157.3650  376.006  44.5072
## ORI_14631_14598 165.5190 5674.29 302.699  262.5370 292.0970  660.640  42.4637
## ORI_14633_14599  66.0094 8415.38 436.774  283.9740 213.9440  505.794  32.0359
## ORI_14635_14600  64.4923 4687.56 393.033  366.0990 285.2610  475.720 134.4580
## ORI_14639_14602 127.7490 2969.60 357.836  221.4500 184.9400  361.504  64.7052
##                  [,3118] [,3119] [,3120] [,3121] [,3122]  [,3123] [,3124]
## ORI_10219_10218  839.723 158.534 548.675 160.722 280.878 2101.450 349.681
## ORI_10735_10730 1397.920 542.037 767.818 392.812 148.334 1097.390 282.273
## ORI_14605_14585 1078.790 203.498 687.029 311.956 218.791 1028.590 416.015
## ORI_14607_14586 1101.280 120.961 559.600 422.115 198.221 1620.870 211.277
## ORI_14609_14587 1036.870 303.977 633.826 236.940 135.055 1347.540 203.430
## ORI_14617_14591  994.682 174.132 667.282 110.433 145.926 2026.960 215.286
## ORI_14623_14594  861.563 253.543 508.414 206.286 224.536 1350.020 427.912
## ORI_14629_14597  811.164 200.474 565.226 217.331 240.085 1553.190 433.897
## ORI_14631_14598 1087.720 426.309 634.263 329.425 220.424 1358.960 294.928
## ORI_14633_14599 1215.340 184.843 657.880 274.166 299.756 1417.870 377.568
## ORI_14635_14600  935.801 257.372 558.755 168.668 348.142 1326.070 366.632
## ORI_14639_14602  875.597 442.174 540.913 179.586 206.780 1103.730 421.468
##                  [,3125]  [,3126]  [,3127]   [,3128] [,3129]  [,3130]  [,3131]
## ORI_10219_10218 1215.170 1234.120 3606.730  456.1720 193.019  564.064  478.487
## ORI_10735_10730  639.203  628.295 2068.930   55.5956 120.210  682.173  647.573
## ORI_14605_14585  548.385 1058.630 3956.720  806.7440 166.796  467.773  555.347
## ORI_14607_14586  518.273  801.777 3130.800  112.8220 122.816  479.506  526.034
## ORI_14609_14587  426.524  874.748 5127.830  162.7350 137.831  861.940  768.586
## ORI_14617_14591  363.812 1439.690 2912.290  216.2410 140.531  496.128  784.602
## ORI_14623_14594  751.058 1307.030 2997.500  228.3680 185.590  416.707  649.094
## ORI_14629_14597  578.429  807.045 3060.570  114.5390 192.132  755.851  445.200
## ORI_14631_14598  572.465  830.688 4311.480   94.8615 202.364  942.930  754.441
## ORI_14633_14599  720.463  683.720 1456.540  106.5740 188.434  621.147  946.017
## ORI_14635_14600  649.013  859.483 1687.180  286.0350 168.196  629.443  733.587
## ORI_14639_14602  616.373  498.973  927.722  176.5700 180.890  782.117  655.299
##                 [,3132]  [,3133]   [,3134]  [,3135] [,3136]  [,3137]  [,3138]
## ORI_10219_10218 232.073  322.275  251.4930 140.7840 362.712  73.4606 1322.940
## ORI_10735_10730 380.579  704.872  888.7150 215.2310 444.198 156.1600 1359.810
## ORI_14605_14585 373.143  397.032  387.8120 106.1070 348.007  94.6426 1265.270
## ORI_14607_14586 512.951  704.718  141.9330 102.0420 344.847 500.6350 1361.920
## ORI_14609_14587 413.589  653.284  419.6860 145.7320 393.949 338.3640 1508.660
## ORI_14617_14591 238.357  323.951  503.9520  61.8285 188.708  27.1260 1702.340
## ORI_14623_14594 373.023  241.919  431.4470 162.7620 226.592  26.6781 1197.340
## ORI_14629_14597 353.936  424.171 1789.9300 160.9800 336.438  63.0215  884.691
## ORI_14631_14598 384.902  648.015  618.6530 187.4740 267.505 375.4920 1475.920
## ORI_14633_14599 340.532  451.784  267.8270 223.8240 390.925 215.1080 1617.190
## ORI_14635_14600 351.594  303.084  586.9980 218.2140 351.861  51.2395 1423.070
## ORI_14639_14602 346.718  349.367  331.4820 247.1280 328.689 108.7230 1033.620
##                 [,3139]  [,3140]  [,3141] [,3142]  [,3143]  [,3144] [,3145]
## ORI_10219_10218 343.619 512.7540  872.645 555.661 1590.720 277.7220 1879.08
```

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## ORI_10735_10730 345.882 185.0690 1472.230 360.598  324.490  24.6827 1886.42
## ORI_14605_14585 244.855  71.3706  948.928 334.227  350.269  53.1440 2539.80
## ORI_14607_14586 110.607 214.7100 1257.780 358.007  950.782  99.1897 3064.16
## ORI_14609_14587 190.319 212.3640 1157.030 421.785  470.795  75.4257 2839.75
## ORI_14617_14591 170.992 512.4400  602.604 338.523 2059.580 275.8120 2813.88
## ORI_14623_14594 331.239 194.0790  671.380 272.679 1203.770 140.0140 2721.83
## ORI_14629_14597 257.709 208.1070  523.738 273.153  314.259  72.2185 1714.68
## ORI_14631_14598 274.248 235.7530  940.413 367.491  361.827  39.1061 1988.57
## ORI_14633_14599 288.769 166.0390  688.324 250.525  596.356  37.7946 1703.52
## ORI_14635_14600 319.032 236.4670  502.304 325.173  764.115  93.0710 3358.55
## ORI_14639_14602 391.332 110.7610  578.389 217.339  691.178  37.4697 1839.57
##                  [,3146] [,3147]  [,3148]  [,3149]  [,3150]  [,3151]  [,3152]
## ORI_10219_10218  967.980 4415.85 147.8750  619.579  606.354  535.151 1586.260
## ORI_10735_10730 1300.550 2635.43  88.0164  537.358  622.719  619.443 1340.000
## ORI_14605_14585 1445.400 3701.26 120.9880  989.071  720.376  625.637 1379.180
## ORI_14607_14586 1865.570 4086.64 189.1020  815.972  782.936  843.251 1060.260
## ORI_14609_14587 1421.130 3606.39  69.8051  738.202  761.784  527.349 1661.390
## ORI_14617_14591 1961.660 3617.83  38.4506  350.673  537.685  441.474 2009.900
## ORI_14623_14594 1766.090 3949.79 157.8410  328.430  807.685  676.153 1195.290
## ORI_14629_14597 1586.770 3158.88 123.6940  334.644  699.881  615.150 1113.500
## ORI_14631_14598 1553.060 4212.06  96.1371  807.870  825.434  808.547 1199.270
## ORI_14633_14599 1693.920 4663.70 211.2380  666.653  739.842  636.155 1840.150
## ORI_14635_14600 1424.050 3150.69 167.4000  494.322 1042.330  646.490 1206.050
## ORI_14639_14602  807.948 1666.50 137.6830  238.133  759.129  661.511 1041.780
##                  [,3153]  [,3154] [,3155] [,3156] [,3157] [,3158] [,3159]
## ORI_10219_10218  98.9779 128.2420 257.069 452.147 366.569 109.361 206.011
## ORI_10735_10730 203.4720 216.4210 569.107 273.315 474.908 334.410 529.275
## ORI_14605_14585 158.4490 228.8770 324.382 507.986 428.863 257.289 285.291
## ORI_14607_14586 704.9090 295.6030 160.298 368.327 635.407 235.170 349.219
## ORI_14609_14587 344.8710 218.4160 463.666 570.342 517.387 276.079 573.374
## ORI_14617_14591  24.6827 119.0920 337.304 394.012 412.865 137.828 238.864
## ORI_14623_14594  47.6493 131.1570 314.946 292.959 348.088 156.918 203.902
## ORI_14629_14597  70.0366 105.6500 193.096 334.424 449.795 328.778 551.370
## ORI_14631_14598 259.7070 184.3200 745.709 646.129 342.145 281.770 677.474
## ORI_14633_14599 124.0390 148.5590 365.514 336.039 428.703 236.715 309.225
## ORI_14635_14600  67.5217 144.5540 480.471 264.784 678.213 290.986 191.008
## ORI_14639_14602  56.8879  88.3120 449.852 493.648 211.325 471.467 374.062
##                  [,3160]  [,3161]  [,3162]  [,3163]   [,3164] [,3165] [,3166]
## ORI_10219_10218  93.8761 578.8540  366.572  365.716 1250.7000 291.569 5862.76
## ORI_10735_10730  77.8227 216.6660 1983.240 1088.430  211.5690 384.642 5428.12
## ORI_14605_14585 131.3870 306.1050  820.687  758.959  559.5170 302.173 5331.24
## ORI_14607_14586 312.0320 154.4970  819.132  819.307  648.0010 220.323 5574.29
## ORI_14609_14587 195.7910 164.6370  464.867 1037.290  425.6810 341.665 6080.58
## ORI_14617_14591  52.2661 245.2730  626.164  675.523 1229.3200 322.978 6575.61
## ORI_14623_14594  69.9871 225.9730  498.862  647.207 1089.0400 372.914 5821.40
## ORI_14629_14597  91.8776  65.5544  665.430  701.730  309.6870 282.260 5622.13
## ORI_14631_14598 219.9030 117.1430  518.995  974.874  333.1670 268.536 4989.60
## ORI_14633_14599 124.2360 283.6460  493.352  871.749  545.5040 512.093 6700.39
## ORI_14635_14600  88.3806 297.9080 1007.340 1064.390  550.0260 466.358 5299.46
## ORI_14639_14602  86.8905 239.4000 1027.390  894.190  350.0000 528.831 7212.13
##                 [,3167] [,3168] [,3169] [,3170] [,3171] [,3172] [,3173]
## ORI_10219_10218 340.241 680.892 2257.26 1214.47 1977.89 114.756 372.462
## ORI_10735_10730 229.277 469.802 1305.87 2915.05 3113.39 142.228 116.346
## ORI_14605_14585 284.992 628.132 1733.68 1676.73 2850.04 293.690 164.365
```

```
## ORI_14607_14586 403.916 380.855 2346.58 1933.84 3314.58 399.038 188.820
## ORI_14609_14587 224.830 373.850 1897.91 1593.00 2978.56 207.339 192.032
## ORI_14617_14591 251.868 780.349 2640.35 1144.98 2928.71 236.185 361.614
## ORI_14623_14594 291.355 538.562 1988.42 1423.52 2441.36 322.562 247.174
## ORI_14629_14597 256.112 323.347 1818.59 2188.60 3838.47 223.272 190.975
## ORI_14631_14598 232.387 366.155 2027.42 2300.79 3348.06 270.044 203.852
## ORI_14633_14599 202.103 301.460 1647.47 1556.66 3718.84 278.819 143.632
## ORI_14635_14600 305.650 487.106 1739.47 1432.40 4689.59 286.911 194.664
## ORI_14639_14602 234.818 452.982 1387.80 2075.66 4629.21 141.606 200.133
##                  [,3174]  [,3175]  [,3176]   [,3177] [,3178]  [,3179]  [,3180]
## ORI_10219_10218 1117.790  263.700  442.002 1303.0600 644.097  867.623 599.0420
## ORI_10735_10730 1091.000  699.908 1407.550   57.5133 399.497 2070.100 257.8170
## ORI_14605_14585 1077.710  619.745  969.591  230.5930 577.643 1885.390 525.4430
## ORI_14607_14586 1536.590 1104.280  900.050  457.4830 507.796 2020.890 286.0570
## ORI_14609_14587 1529.740  569.159 1115.710  179.3480 388.898 1939.270 415.3190
## ORI_14617_14591  800.173  418.443  765.583 1249.4200 533.873 1445.010 222.0560
## ORI_14623_14594  872.154  457.763  546.814  557.4150 705.630 1324.040 228.4290
## ORI_14629_14597  926.189  911.643 1233.620   99.1236 557.931 1654.560 426.5660
## ORI_14631_14598 1652.820 1027.590 1215.220  313.1660 449.421 1776.270 445.9380
## ORI_14633_14599 1295.020  274.344  519.925  268.1520 650.137 1645.590 359.1580
## ORI_14635_14600  986.160  254.402  574.550  436.8830 589.314 1558.510 230.4380
## ORI_14639_14602 1253.510  357.738  562.596  189.2730 705.490  960.514 443.7850
##                 [,3181] [,3182] [,3183]  [,3184] [,3185] [,3186] [,3187]
## ORI_10219_10218 457.714 643.314 254.560  124.330 357.424 347.372 487.030
## ORI_10735_10730 342.389 823.765 404.109  490.870 421.878 323.816 647.400
## ORI_14605_14585 287.628 715.668 461.020  231.175 416.632 368.233 553.090
## ORI_14607_14586 328.061 487.945 463.491  768.009 343.681 507.609 804.362
## ORI_14609_14587 264.241 763.432 480.050  523.204 493.264 325.015 754.212
## ORI_14617_14591 190.960 567.907 343.125  151.764 386.450 370.591 670.986
## ORI_14623_14594 140.337 384.355 239.163  182.259 333.537 326.065 511.402
## ORI_14629_14597 427.849 503.877 387.561  368.311 295.494 424.400 445.651
## ORI_14631_14598 231.845 663.423 440.099  662.457 389.781 418.726 825.791
## ORI_14633_14599 450.098 640.956 369.190  311.897 477.634 320.740 709.890
## ORI_14635_14600 421.197 678.868 242.681  223.257 425.016 339.707 595.713
## ORI_14639_14602 253.573 609.528 222.628  289.024 434.235 278.830 429.221
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## ORI_10219_10218 280.853 1762.380 531.047 297.0940  298.4610  746.460 187.4310
## ORI_10735_10730 419.345 1576.600 744.593  87.7240 1473.8700  921.717 198.7830
## ORI_14605_14585 385.791 2090.650 597.417 138.9650  712.1270  900.892 145.7210
## ORI_14607_14586 506.938 1320.370 632.276 239.8850  664.4440 1011.950 331.2570
## ORI_14609_14587 525.555 1887.510 765.211 428.2180  763.2500 1062.960 428.0130
## ORI_14617_14591 350.804 1595.230 653.211 261.3430 1226.4000  761.236  94.7325
## ORI_14623_14594 265.740 1254.250 496.140 388.2950  852.0150  649.955 176.4000
## ORI_14629_14597 378.596 1597.480 579.897 231.4470 1233.4700  866.462 235.4070
## ORI_14631_14598 342.132 2010.420 748.847 367.1340  816.3130  979.258 372.5080
## ORI_14633_14599 454.859 1977.160 554.008 260.2370 1226.3400  882.202 115.4120
## ORI_14635_14600 249.279 1302.260 484.038 249.7810  826.9580 1026.360  44.1109
## ORI_14639_14602 322.745 1219.860 410.245 162.8450 1198.7200 1161.060  40.7522
##                 [,3195]  [,3196]  [,3197]  [,3198]  [,3199]  [,3200]  [,3201]
## ORI_10219_10218 403.609  621.145  586.472  781.199 1272.060 216.3240  633.880
## ORI_10735_10730 435.096  852.618  558.299  231.893  697.279  70.0563  954.073
## ORI_14605_14585 390.110  786.319  849.471  191.150  870.679  24.6827  716.082
## ORI_14607_14586 398.725  808.299  961.805  285.219  637.337  93.7742  944.471
## ORI_14609_14587 425.313  752.970 1175.150  187.440  920.152  44.6316  846.901
```

```
## ORI_14617_14591 404.167  654.025  749.594  649.284 1145.870 222.8630  815.534
## ORI_14623_14594 392.358  746.974  794.290  227.779  680.947 115.1160  651.148
## ORI_14629_14597 317.866  573.605  790.341  180.054  417.459  24.7081 1122.040
## ORI_14631_14598 401.405  703.282 1027.130  181.136  893.132  27.3638 1060.010
## ORI_14633_14599 409.201 1019.160  982.008  254.645  708.658  42.8705  811.631
## ORI_14635_14600 570.849  662.139  895.236  252.850  853.833  70.1512  692.267
## ORI_14639_14602 312.736  863.418  386.193  228.802  712.949  46.0290  766.510
##                  [,3202]  [,3203]  [,3204]  [,3205]  [,3206]  [,3207] [,3208]
## ORI_10219_10218  670.067  80.0043 260.4450 221.8400 281.9330 1531.670 367.798
## ORI_10735_10730 1653.310 346.7560  50.7399  64.7091 193.9360 1979.700 457.593
## ORI_14605_14585 1052.100 113.1600  44.8298 184.3180 163.0680  726.350 479.297
## ORI_14607_14586  475.530  93.1446 206.9670  60.1021 115.3660 1336.060 472.359
## ORI_14609_14587  930.425 227.7410  83.1128 164.2330 238.0630 1595.350 434.725
## ORI_14617_14591  945.471 165.9720 406.5980  80.8207 193.0680 1678.360 440.575
## ORI_14623_14594  856.279 103.7750 190.0230 120.8660 178.6700  865.234 278.287
## ORI_14629_14597 1171.630 180.4080 264.2840  67.9004 159.6280  934.557 358.294
## ORI_14631_14598 1065.030 165.0720 316.7650 113.4110  93.6763 1577.740 430.827
## ORI_14633_14599 1020.030 112.2650 111.8810  83.9767 353.7560 1017.680 467.795
## ORI_14635_14600 1088.470 104.9850  80.1870  88.0645 246.5200  823.540 286.829
## ORI_14639_14602  873.331 254.3050  56.4373  73.0893 198.2650 1872.120 473.058
##                 [,3209]  [,3210] [,3211]  [,3212]  [,3213]  [,3214] [,3215]
## ORI_10219_10218 383.102 2857.060 5127.68  162.632 149.4860 135.9630 459.146
## ORI_10735_10730 189.370 1947.180 3541.90  782.124 300.0550  24.6827 818.192
## ORI_14605_14585 272.401 1792.400 6429.13 2401.470 183.7620 181.9240 544.783
## ORI_14607_14586 167.761 1902.770 4358.76 2494.780 261.5310  68.2662 674.343
## ORI_14609_14587 186.807 2242.350 5551.36 1353.500 406.3130 198.6160 729.196
## ORI_14617_14591 176.014 2836.870 5275.51  323.838 179.5950 124.9030 644.737
## ORI_14623_14594 338.833 2732.480 5218.43  149.802 139.2170 186.6660 496.091
## ORI_14629_14597 301.327 2522.320 6601.29  196.709 209.5840 188.3280 676.184
## ORI_14631_14598 158.546 2221.410 5044.18 1445.260 287.5880 221.7040 822.112
## ORI_14633_14599 363.883 3379.180 6651.15  590.779 174.9290 100.7970 511.336
## ORI_14635_14600 334.284 2505.210 4030.48  206.939 169.3810 212.5310 479.869
## ORI_14639_14602 319.569 2181.310 2963.87  380.135  56.5830 188.6160 635.067
##                  [,3216]  [,3217]  [,3218] [,3219] [,3220]   [,3221] [,3222]
## ORI_10219_10218 239.0120 115.1640 140.4110 663.418 276.619 1653.8700 240.412
## ORI_10735_10730 484.8350 177.9260 307.4840 432.095 261.428  144.8080 210.653
## ORI_14605_14585 223.0430 116.8870 265.5650 723.735 294.350   54.6384 248.655
## ORI_14607_14586 465.6560 495.6070 160.0370 584.370 221.386   24.6827 193.046
## ORI_14609_14587 293.2310 149.4340 483.7640 460.950 183.624   24.6827 241.189
## ORI_14617_14591 340.1240  92.2228 412.3920 661.292 201.833   38.0035 183.092
## ORI_14623_14594 254.0670 107.5460 591.2590 998.214 487.829   47.2730 135.120
## ORI_14629_14597 259.2770 101.6790 211.6130 888.040 244.750   24.6827 345.301
## ORI_14631_14598 360.9630 169.2400 246.6340 800.704 308.395  295.2420 261.821
## ORI_14633_14599 227.5590  92.3869 396.0470 684.277 321.975  262.1430 306.065
## ORI_14635_14600 184.9890  51.2791 540.2250 687.001 300.694   24.6827 211.611
## ORI_14639_14602 214.2800 131.0330 267.9660 699.975 283.997   24.6827 315.189
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## ORI_10219_10218 1164.060 1402.1700 146.4330 1534.9200 1374.630  57.9674
## ORI_10735_10730 1121.040   67.7083 169.1830  376.8540 1676.930 218.0550
## ORI_14605_14585 1007.050 1266.9100 146.4240  234.6400 2437.220  97.1668
## ORI_14607_14586  976.492  267.6940 197.6490  531.7730 1031.370 354.7980
## ORI_14609_14587 1216.250 1154.5200 366.7860  268.4790 1765.950 272.8180
## ORI_14617_14591 1548.250  562.5340 188.9910 1800.5500 1962.160  24.6827
## ORI_14623_14594  922.790  390.1250 131.2290 1042.3900 2017.760  44.8807
```

```
## ORI_14629_14597 1199.060 1208.4000 337.9300  140.4780 1289.500  91.7879
## ORI_14631_14598  911.610  609.7230 308.3680  128.4700 2063.490 191.4860
## ORI_14633_14599 1428.630   53.5275 239.2180 1318.9100 2364.030 195.3580
## ORI_14635_14600 1262.410  447.2710 105.9410  784.7280 1881.320  90.5873
## ORI_14639_14602  955.266  192.9520 114.1120  598.8000 2026.780  43.6179
##                  [,3229]  [,3230]  [,3231]  [,3232] [,3233] [,3234] [,3235]
## ORI_10219_10218 337.8560 199.9310 3211.730  43.9667 290.156 277.427 454.434
## ORI_10735_10730 224.7820  80.5498  547.516  55.9293 241.381 343.989 656.397
## ORI_14605_14585 476.1780 158.6170 3349.560  92.8607 421.099 307.118 512.693
## ORI_14607_14586 383.1370 162.8550 1436.380  69.7501 184.371 230.210 438.710
## ORI_14609_14587 216.5350 453.5860 1974.420 102.9850 182.186 253.040 557.207
## ORI_14617_14591 179.0610 169.8770 2390.180  38.1517 170.036 292.381 413.851
## ORI_14623_14594 189.9840 102.2990 1999.840  45.5419 408.481 193.591 375.336
## ORI_14629_14597 124.0540  75.7756 2029.580  24.6827 242.447 254.789 438.873
## ORI_14631_14598 184.1210 115.2110 1487.290  79.8567 325.229 318.308 540.794
## ORI_14633_14599 312.1740  89.2324 2067.890  24.6827 372.295 294.206 683.410
## ORI_14635_14600 137.6460 133.1890 1598.340  24.6827 382.220 220.032 485.003
## ORI_14639_14602  26.4305  42.7237 1221.280  24.6827 375.599 395.500 286.830
##                 [,3236]  [,3237]  [,3238]  [,3239] [,3240]  [,3241]  [,3242]
## ORI_10219_10218 312.971 583.1100  910.486 2561.960 609.732  509.714 1596.950
## ORI_10735_10730 419.936 481.9830  611.056 2711.230 409.802  824.199 1117.480
## ORI_14605_14585 465.342 609.6540  675.861 2767.130 546.826  547.416 1546.300
## ORI_14607_14586 276.761 660.7920  587.596 3863.560 438.377 2181.190 1297.520
## ORI_14609_14587 374.074 350.2800  783.623 3333.950 344.720  650.703 1608.250
## ORI_14617_14591 408.362 225.5470  529.990 1821.600 379.751  782.911 1389.110
## ORI_14623_14594 408.093 371.8230  463.481 1673.780 495.196  412.756 1044.710
## ORI_14629_14597 240.664 278.5320  584.479 1838.930 470.020  819.883 1064.630
## ORI_14631_14598 486.517 281.2200  707.638 3128.870 382.078 1862.560 1328.440
## ORI_14633_14599 880.135 417.6970  825.653 2563.170 420.511 1625.720 1283.100
## ORI_14635_14600 655.083 312.1980  496.614 2435.720 387.936 1583.570 1105.060
## ORI_14639_14602 644.561 326.0320  723.306 1714.290 478.924  777.026 1286.870
##                 [,3243] [,3244]  [,3245]  [,3246]  [,3247]  [,3248]  [,3249]
## ORI_10219_10218 165.090 125.609  726.675 119.5690  499.139 249.0730  363.953
## ORI_10735_10730 252.417 296.435 1362.750 189.6390  824.972 158.6980  570.318
## ORI_14605_14585 332.529 223.910  534.385 135.2790  436.163 125.9230  627.810
## ORI_14607_14586 169.494 236.605  519.894 109.0300 1039.430 145.2160 1208.090
## ORI_14609_14587 170.358 186.852 1028.730  93.6800  805.720 151.1350  488.924
## ORI_14617_14591 261.787 113.439  707.004  87.1992  773.759 256.4870  206.089
## ORI_14623_14594 518.716 258.705  519.120  72.7670  833.411 236.6880  197.475
## ORI_14629_14597 345.194 225.321  918.497  41.5750  799.001 171.1280  242.239
## ORI_14631_14598 301.789 279.798  885.520  89.8524  917.334 141.9320  371.697
## ORI_14633_14599 302.875 222.040  291.107 126.9260  620.826 197.4140  455.623
## ORI_14635_14600 435.324 250.238  355.179  98.6016  494.570 220.8620  300.110
## ORI_14639_14602 290.032 169.361  652.210 528.2190  640.128 123.2020  138.111
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## ORI_10219_10218 153.1750 259.4070  720.968  304.2460 3271.7500 255.3990
## ORI_10735_10730 167.8650  70.7467  837.854  386.8180 1300.8100 199.7070
## ORI_14605_14585 199.7180 218.2520  801.081  195.3850 1318.8600  83.2308
## ORI_14607_14586 105.2950 326.8810  756.992  172.0090 1521.7000  85.0128
## ORI_14609_14587 178.8720 145.9910  706.325  134.3030 1608.8500 180.2380
## ORI_14617_14591 178.6590  87.1401  927.122  306.6630 3037.7200 115.2170
## ORI_14623_14594  80.3347  81.9995  495.005  145.2730 2924.4100 110.9420
## ORI_14629_14597 236.3900 119.5960  735.896  552.5510 1134.2800 247.0790
## ORI_14631_14598  86.9850 100.2720  706.787  517.0540 1377.9100  70.4006
```

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## ORI_14633_14599  24.6827  99.9470  835.159  320.2890 2347.5400 198.0740
## ORI_14635_14600  56.6328  84.1120  535.772  224.0600 2654.7300 144.0150
## ORI_14639_14602  71.6736 103.2550  692.697   69.2681 2871.0600  78.2175
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## ORI_10219_10218 1657.750 1265.070 293.971 315.330 169.7870 827.7360 787.8790
## ORI_10735_10730 1914.420 1409.510 289.657 228.979  24.6827  98.1213 127.8980
## ORI_14605_14585 1173.850  721.133 334.103 317.446  94.4476 560.7940  77.7113
## ORI_14607_14586 1275.100 1300.800 317.852 362.637 135.6930 239.3930 253.1740
## ORI_14609_14587 1799.150  737.626 454.138 299.619  76.8874 167.6350 142.6440
## ORI_14617_14591 1431.890  851.713 415.609 233.203 246.2880 920.8460 680.7000
## ORI_14623_14594 1222.110  768.201 222.034 248.615 174.6040 457.6820 416.4020
## ORI_14629_14597 1242.070  620.593 392.445 308.197  68.4290 121.0000  84.9009
## ORI_14631_14598 1625.540  861.392 371.516 266.099  86.3180 101.7090 227.9670
## ORI_14633_14599 1742.380  908.973 270.957 267.102  95.9582 117.2310 365.6920
## ORI_14635_14600 1346.590  575.228 305.180 291.877 119.4720 299.2410 214.6100
## ORI_14639_14602 1232.110  540.501 385.683 308.142  66.7777  69.7797 170.9250
##                  [,3263]  [,3264]   [,3265]  [,3266] [,3267] [,3268] [,3269]
## ORI_10219_10218 273.7180  621.829   79.5261  673.712 242.037 335.245 248.525
## ORI_10735_10730 134.0490 1348.360   45.7488 1204.580 217.370 221.281 657.967
## ORI_14605_14585 101.3220 1504.030   94.2817 1044.360 204.633 309.706 503.615
## ORI_14607_14586 155.7910 2631.150   46.2411 1725.010 342.664 197.122 655.414
## ORI_14609_14587 121.9560 1407.460   32.8110 1458.460 294.592 177.236 755.804
## ORI_14617_14591 247.4860  541.950   27.6073  762.607 306.941 186.612 546.224
## ORI_14623_14594 154.6170  536.249   88.4497  765.994 238.012 320.683 427.117
## ORI_14629_14597 176.3580 1344.390   84.4538 1436.910 344.200 247.847 482.024
## ORI_14631_14598 212.6430 1720.670   51.8498 1547.940 408.228 167.969 682.506
## ORI_14633_14599 232.7100  852.309   83.4011  655.186 216.502 310.881 394.643
## ORI_14635_14600 181.2010  674.331   72.4922  771.328 219.731 371.388 455.900
## ORI_14639_14602 197.2240  521.915 1119.1500  955.806 216.846 364.913 485.995
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## ORI_10219_10218 516.6880  92.7616 575.497 2375.980 263.875 253.6590 503.045
## ORI_10735_10730 203.1380 122.1440 272.320 1130.400 585.608 375.1580 425.278
## ORI_14605_14585 522.4060 124.7990 260.487 3155.280 406.776 203.1930 568.607
## ORI_14607_14586 317.8150 164.1450 418.589 2919.050 403.406 128.0440 474.809
## ORI_14609_14587 351.6570 157.4690 436.619 2541.150 458.686 333.4150 413.307
## ORI_14617_14591 139.3850  79.2520 274.094 1349.430 277.859 291.6540 437.172
## ORI_14623_14594 119.7560  78.9818 529.229 1555.030 286.855 143.8770 781.551
## ORI_14629_14597  65.5549 198.3290 348.142 1237.910 350.924 317.4700 639.664
## ORI_14631_14598 207.9010 192.1720 544.415 1751.780 529.210 500.0450 566.067
## ORI_14633_14599 110.3880 107.6870 359.661 1691.890 381.736 266.9800 554.294
## ORI_14635_14600 183.5210 106.2540 169.876 1421.430 501.237 211.4180 638.692
## ORI_14639_14602 226.7050 112.5210 230.154 1198.750 392.524 287.0380 493.127
##                  [,3277] [,3278]  [,3279]  [,3280]  [,3281]  [,3282] [,3283]
## ORI_10219_10218  939.162 620.715  758.093  437.872 1423.700  850.836 273.527
## ORI_10735_10730  598.199 475.796  926.592  841.052  722.162  443.352 176.067
## ORI_14605_14585  816.858 521.926  893.170  670.571 1176.960  501.834 219.179
## ORI_14607_14586  458.953 355.255  775.714 1025.840  659.236  558.763 174.329
## ORI_14609_14587  476.890 305.830  784.485  958.553  904.943  794.835 206.268
## ORI_14617_14591  523.727 477.946 1187.470  357.973  989.559  638.498 229.651
## ORI_14623_14594  693.821 516.212  963.714  256.076 1150.650  736.865 205.743
## ORI_14629_14597  668.217 561.500  866.727  679.405 1411.890  640.388 285.843
## ORI_14631_14598  369.652 292.679  839.864 1008.820  978.373  396.090 230.362
## ORI_14633_14599  682.882 501.161 1337.820  383.959  750.767  736.684 269.403
## ORI_14635_14600  773.656 521.851 1136.660  303.762  858.107  503.444 244.425
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## ORI_14639_14602  685.899 521.276  996.042  379.625  430.046  503.729 175.650
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## ORI_10219_10218  576.5570  976.686  605.704 470.3960 119.9040  509.164 325.962
## ORI_10735_10730  107.0220  886.295  963.308 367.1520 243.4630  587.954 360.331
## ORI_14605_14585  288.0190 1100.940 1463.800  25.4169 362.8280  611.391 329.705
## ORI_14607_14586  203.0700 1838.550 1096.860 454.3990  50.7528  550.525 417.951
## ORI_14609_14587  152.8790 1110.110  942.359 465.4470 146.2240  692.480 482.598
## ORI_14617_14591  252.9180 1039.420  982.566 509.6790  64.4407  561.542 310.356
## ORI_14623_14594  517.1000  615.917  574.874 290.3060  52.8474  429.487 296.326
## ORI_14629_14597  207.2300 1096.500 1058.430  58.8782 165.8850  607.952 284.732
## ORI_14631_14598  133.1410 1230.520 1307.880 659.5280 331.7400  742.296 401.765
## ORI_14633_14599  220.3150  603.391  910.954 424.5970 578.3020  416.375 370.188
## ORI_14635_14600  249.4040  781.416  574.962 206.0380  37.2516  704.714 369.317
## ORI_14639_14602  133.1730  738.615  743.534 141.2070 209.6250  650.510 231.688
##                 [,3291] [,3292] [,3293]  [,3294] [,3295]  [,3296] [,3297]
## ORI_10219_10218 258.844 424.950 231.708  951.435 2706.68 2326.980 174.252
## ORI_10735_10730 176.126 368.542 330.186  506.395 2730.09 1786.820 634.082
## ORI_14605_14585 325.751 309.771 255.422 1135.820 2246.36 1359.950 393.682
## ORI_14607_14586 260.024 382.376 388.446 1276.830 2083.75 1314.240 266.125
## ORI_14609_14587 272.106 487.090 579.244 1385.360 2680.99 1896.910 467.487
## ORI_14617_14591 302.419 403.903 192.833  899.486 2804.02 1981.410 314.025
## ORI_14623_14594 429.364 309.215 322.243 1391.540 2647.73 1772.130 407.626
## ORI_14629_14597 385.641 446.585 284.308 1300.380 2892.00 1975.720 478.694
## ORI_14631_14598 357.143 375.347 355.938 1365.030 2629.27 1582.480 420.648
## ORI_14633_14599 326.173 364.298 424.253 1038.240 3207.06 2282.950 517.741
## ORI_14635_14600 480.229 302.542 460.611 1418.020 2968.85 2017.710 587.647
## ORI_14639_14602 346.739 325.470 292.540 1079.720 2028.23 1405.150 510.419
##                  [,3298]  [,3299]  [,3300] [,3301]  [,3302]  [,3303]  [,3304]
## ORI_10219_10218 1031.260  959.920  480.165 169.680 152.0350  58.8233  628.378
## ORI_10735_10730 1062.130  595.369  746.774 319.916 277.7180 117.3820  667.485
## ORI_14605_14585 1201.380  771.194  699.787 271.820 189.0870  86.1967  579.261
## ORI_14607_14586 1239.170  846.468  599.043 186.780 217.4980  60.7264  483.511
## ORI_14609_14587 1245.900  934.406  703.783 281.093 213.0050  61.1219  608.899
## ORI_14617_14591 1126.730 1021.340  563.666 253.411 198.7130  68.4746  629.545
## ORI_14623_14594  920.313  638.963  686.400 309.960 209.1090  77.9311  559.169
## ORI_14629_14597  852.715  714.293  624.322 223.091 240.8000  68.6326  367.445
## ORI_14631_14598 1375.890  687.141  691.513 264.817 196.5420  64.3970  575.771
## ORI_14633_14599 1127.340  769.559  780.188 312.506 215.0900  78.7568  457.722
## ORI_14635_14600 1345.910  817.787 1117.390 386.978 225.9620  73.7481  638.372
## ORI_14639_14602 1035.630  882.429  671.088 256.975 285.3270  99.7132  848.333
##                 [,3305] [,3306]  [,3307]  [,3308]  [,3309] [,3310]  [,3311]
## ORI_10219_10218 165.044 266.560  414.298  88.5673  409.437 437.351  640.796
## ORI_10735_10730 370.581 469.221  441.645 175.0150  324.372 238.006  365.529
## ORI_14605_14585 174.700 270.634  424.053 167.4110  336.270 519.221  302.493
## ORI_14607_14586 292.611 312.254  417.712 113.7340  406.347 962.058  561.506
## ORI_14609_14587 303.869 347.205  364.202 133.5680  303.585 339.575  292.462
## ORI_14617_14591 160.604 291.731  490.253  47.0481  253.784 471.171 1002.060
## ORI_14623_14594 242.791 384.537  680.095 141.5300  393.943 587.610  550.982
## ORI_14629_14597 155.860 369.368  304.632  89.5661  414.038 224.366  242.664
## ORI_14631_14598 259.082 267.180  509.576 135.6700  414.214 281.715  253.353
## ORI_14633_14599 243.390 466.030  477.785 126.4650  398.716 196.976  353.985
## ORI_14635_14600 253.187 418.484 1175.940 140.5950  412.403 367.543  403.550
## ORI_14639_14602 252.751 412.620  551.452 231.2710  406.548 210.703  378.929
##                  [,3312]  [,3313]  [,3314]  [,3315]   [,3316] [,3317]  [,3318]
```

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## ORI_10219_10218 1112.090 289.9320  274.268  809.125  212.3130 359.264  712.861
## ORI_10735_10730  911.592 413.7680  790.484  654.066  386.2970 639.596 1665.610
## ORI_14605_14585  868.723 226.3960  581.294  952.093  451.0380 380.843  540.044
## ORI_14607_14586 1106.240 234.6430  874.086  983.742  862.6230 437.706  678.948
## ORI_14609_14587  681.088 127.8520  985.231  788.079  307.0110 785.371  956.939
## ORI_14617_14591  930.420 350.0570  409.681 1007.500   67.7346 364.270  860.971
## ORI_14623_14594  764.055 304.7720  382.677  504.333  127.9430 296.490  539.831
## ORI_14629_14597  681.388 145.5700  795.043  773.613  110.4180 474.033 1308.920
## ORI_14631_14598  934.546 201.7870  665.510 1187.590  323.8190 688.825  516.254
## ORI_14633_14599  653.413 353.4050  423.366  750.334  161.0950 292.939 1250.540
## ORI_14635_14600  507.430 157.3280  448.702  526.336  202.9770 259.079  438.682
## ORI_14639_14602  565.789 205.4370  608.971  537.893  422.1500 178.937  794.088
##                  [,3319]  [,3320]  [,3321]  [,3322]  [,3323]  [,3324] [,3325]
## ORI_10219_10218  624.276 1375.940  629.338  985.527 116.9760  998.004 434.144
## ORI_10735_10730  973.339 1330.920 1106.470 1780.290 139.9830 1698.930 309.620
## ORI_14605_14585  618.873  914.153 1257.350 1687.140  46.0231 1330.250 312.688
## ORI_14607_14586  562.059  760.976  572.523 1782.540  87.1861 1323.510 269.371
## ORI_14609_14587  476.692 1319.740 1170.040 1648.260  34.7095 1342.290 322.935
## ORI_14617_14591  600.442 1424.590  668.451 1406.130 118.9140 1028.860 270.210
## ORI_14623_14594  564.887 1269.240  857.579 1217.330  64.5328 1502.770 351.785
## ORI_14629_14597  532.873 1183.750  628.054 1772.570  35.5246 1167.900 314.781
## ORI_14631_14598  507.886 1428.290 1264.510 1728.600  24.6827 1619.930 277.522
## ORI_14633_14599 1014.150 1582.010 1139.020 1641.110 211.3070 1571.780 373.220
## ORI_14635_14600  699.859 1286.210 1263.790 1477.140  56.9050 1515.330 383.015
## ORI_14639_14602  800.539 1198.500 1875.700 1484.060 240.0110 2062.240 300.988
##                 [,3326] [,3327]  [,3328]  [,3329]  [,3330]  [,3331] [,3332]
## ORI_10219_10218 5172.41 3549.21  921.646 153.2090  752.615  376.546 677.463
## ORI_10735_10730 5641.59 3775.33 1459.540 189.6100  356.845  749.271 767.869
## ORI_14605_14585 7257.65 4690.52 1236.170 222.6620  841.811  708.953 623.312
## ORI_14607_14586 6761.84 4545.28 1774.970 589.4390  943.545  632.585 622.809
## ORI_14609_14587 6298.41 4260.68 1777.220 362.5540  796.943  681.389 716.906
## ORI_14617_14591 4663.63 2703.85 1512.350 103.8990  813.841  468.593 486.934
## ORI_14623_14594 5362.30 4148.99  974.922  67.6647 1008.580  357.034 482.130
## ORI_14629_14597 5432.66 5615.05 1296.460  75.0450  933.396  438.487 572.413
## ORI_14631_14598 5545.40 4274.98 1341.840 219.4220  707.081  987.143 746.743
## ORI_14633_14599 6719.16 4804.12 1720.160 161.2610  494.183  650.934 547.547
## ORI_14635_14600 5620.97 2444.70 1435.590  96.3760  767.356  485.357 696.438
## ORI_14639_14602 6068.39 4705.73 1359.690  44.4973  524.672  695.656 675.992
##                  [,3333]  [,3334] [,3335]   [,3336] [,3337] [,3338]   [,3339]
## ORI_10219_10218 1209.340 2270.170 392.399  190.2430 367.286 238.638  814.1020
## ORI_10735_10730 1260.650  931.489 201.417  268.2800 309.913 399.814   73.1206
## ORI_14605_14585 1405.050 2979.820 338.635  139.2520 380.217 292.518   61.7752
## ORI_14607_14586 1069.960 1745.930 326.447 1035.9800 360.249 347.333  231.4810
## ORI_14609_14587 1303.490 1975.000 255.930  933.4760 378.009 215.550  149.9970
## ORI_14617_14591 1032.010 2520.580 441.742   87.5954 212.897 162.624  603.8440
## ORI_14623_14594 1051.580 1757.820 291.309  119.3940 394.376 338.144  365.1580
## ORI_14629_14597 1048.980 1854.930 249.578  176.1120 299.105 327.659  108.4350
## ORI_14631_14598 1484.770 1977.290 272.413  384.3210 371.891 315.335  115.9790
## ORI_14633_14599 1665.790 1506.950 223.125  483.2070 424.109 332.743  141.9830
## ORI_14635_14600 1301.130 1630.940 272.397  188.1960 415.058 299.451  234.6050
## ORI_14639_14602 1029.440 1139.140 164.560  126.6050 438.344 309.944   51.4085
##                  [,3340]   [,3341] [,3342]  [,3343] [,3344]  [,3345]   [,3346]
## ORI_10219_10218  75.5521  910.0950 471.922  99.8869 172.261  737.123 10760.200
## ORI_10735_10730 164.0170   57.1518 488.611 523.5260 459.887  587.583  2976.720
```

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## ORI_14605_14585 168.9700  627.2810 439.756 137.4990 305.944  692.240  7756.660
## ORI_14607_14586  85.4670   58.1877 483.017 110.8390 349.243  867.033 11445.300
## ORI_14609_14587 156.8580  198.6240 434.348 116.1870 485.913  759.958  9349.470
## ORI_14617_14591 104.8810  243.9900 661.202 112.3440 227.316  696.852  3214.040
## ORI_14623_14594  49.7847  215.1910 407.573 187.8680 178.239  697.991  7038.830
## ORI_14629_14597  65.8223  133.2410 278.398 124.2260 307.555  653.008  5114.780
## ORI_14631_14598  68.4703   71.5977 633.911 146.2090 482.564  742.608  5055.550
## ORI_14633_14599 143.1370   63.8471 468.099 164.9990 358.337  757.136  8617.080
## ORI_14635_14600 127.7260  378.4460 633.926 161.0990 223.872  692.414  3884.020
## ORI_14639_14602 841.6030   86.9387 598.334 128.7920 222.475  561.800  4474.850
##                   [,3347]   [,3348] [,3349]   [,3350]  [,3351] [,3352] [,3353]
## ORI_10219_10218  9112.530 1951.1900 544.915 2816.6400  330.987 520.065 470.493
## ORI_10735_10730  1804.640   78.0466 298.047  218.9870  117.060 526.696 795.430
## ORI_14605_14585  7617.380  745.6010 367.610 1699.5500  241.803 418.752 619.590
## ORI_14607_14586 10738.300 1460.0500 295.021 2715.0000  722.782 429.385 620.678
## ORI_14609_14587  8432.090  758.5260 252.687 1642.9400  156.476 546.764 715.610
## ORI_14617_14591  2217.130  110.2260 203.748  184.6570  133.707 656.879 540.849
## ORI_14623_14594  6170.420  344.0160 428.236 1176.6100  229.216 431.518 509.477
## ORI_14629_14597  3996.340  206.5020 402.573  604.3900  179.548 454.457 588.649
## ORI_14631_14598  4368.650  266.3800 360.682  828.4940  159.238 643.691 744.977
## ORI_14633_14599  8142.060  625.7480 362.408 1378.8800  308.101 483.905 455.267
## ORI_14635_14600  3261.280  172.1590 342.812  481.5010  199.467 495.629 780.234
## ORI_14639_14602  4030.430  255.8570 352.065  579.2860  209.632 625.497 564.306
##                  [,3354] [,3355]  [,3356]  [,3357] [,3358] [,3359]  [,3360]
## ORI_10219_10218  850.146 403.153  705.120  436.762 179.673 169.062  29.6232
## ORI_10735_10730 1194.820 416.878 1111.260  862.027 151.840 294.921 174.3320
## ORI_14605_14585 1160.400 349.190  969.794  998.854 184.534 238.460 111.7510
## ORI_14607_14586  869.859 302.106  961.742  968.713 176.541 292.537  42.6437
## ORI_14609_14587  550.858 247.052 1080.600 1008.720 137.192 327.513  89.1762
## ORI_14617_14591  416.714 340.156 1076.570  171.662 212.861 184.613  27.7696
## ORI_14623_14594 1243.320 292.580  926.397  222.336 283.157 197.388 111.6250
## ORI_14629_14597 1083.690 248.286 1206.500  542.134 160.367 271.915  60.4117
## ORI_14631_14598  986.583 251.842 1177.990 1192.720 143.056 285.961 117.1990
## ORI_14633_14599  769.912 233.027 1078.690  536.044 272.631 301.380  68.2169
## ORI_14635_14600  880.118 409.471 1059.310  208.026 295.472 287.502 160.9830
## ORI_14639_14602  878.688 131.459  897.524  185.972 192.728 176.821 259.1510
##                 [,3361]  [,3362] [,3363]   [,3364]  [,3365]  [,3366]  [,3367]
## ORI_10219_10218 534.298  741.115 541.143  704.0870 129.2960 1202.440 202.3890
## ORI_10735_10730 392.222  777.740 381.523  355.5380 257.3900 1164.550  68.7703
## ORI_14605_14585 280.550  925.880 478.321  945.1690 256.5340 1088.790  46.9484
## ORI_14607_14586 426.160  884.807 644.546  958.0190 985.7500 2776.770  30.7026
## ORI_14609_14587 446.882 1010.240 387.886 1053.0100 335.4540 2285.450  27.1953
## ORI_14617_14591 494.802 1043.710 444.973 1027.0300  69.6954  562.021  39.9962
## ORI_14623_14594 415.642 1190.140 393.204 1354.4800  70.2636  512.005  69.6188
## ORI_14629_14597 341.089  705.718 270.408 1302.9900 109.9430  684.590  35.6528
## ORI_14631_14598 411.127 1145.060 342.981 1055.9900 267.8180 1608.840  24.6827
## ORI_14633_14599 482.619 1104.680 360.507  831.3480 267.1750 1128.280  25.7599
## ORI_14635_14600 461.187 1224.160 331.188 1230.2400 100.0990  756.920  44.6836
## ORI_14639_14602 285.274 1011.610 292.357 1115.0700  44.9922  350.345  57.6489
##                 [,3368]  [,3369] [,3370]  [,3371] [,3372]  [,3373] [,3374]
## ORI_10219_10218 284.623  88.4838 320.777 204.1980 533.192  489.123 418.824
## ORI_10735_10730 409.124  96.1174 226.890 410.3050 267.206  529.856 500.970
## ORI_14605_14585 451.063  81.4031 194.756 367.1920 375.545  601.482 477.914
## ORI_14607_14586 323.433  86.4217 279.953 385.8560 218.512  313.129 433.633
```

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## ORI_14609_14587 488.653 268.9470 157.670 364.5600 267.822  458.325 585.214
## ORI_14617_14591 274.665  80.1597 266.366 227.8900 322.569  427.963 469.312
## ORI_14623_14594 347.832  61.9195 239.694 225.7990 606.117  495.261 327.018
## ORI_14629_14597 473.882  77.9281 220.642 379.8130 487.352  236.499 360.513
## ORI_14631_14598 533.270  91.7175 222.474 372.3220 212.881  390.233 463.804
## ORI_14633_14599 524.316  72.0755 216.917 384.3100 563.527  578.234 432.878
## ORI_14635_14600 336.286  54.3669 220.843 265.5750 435.203  665.367 421.359
## ORI_14639_14602 593.066  53.8311 213.004 168.2390 391.716  452.833 374.751
##                  [,3375] [,3376] [,3377]  [,3378] [,3379]  [,3380]  [,3381]
## ORI_10219_10218 289.3280 402.950 427.355 290.0910 285.091 1177.570 1039.930
## ORI_10735_10730 228.5380 341.659 568.275 341.5760 334.962 1702.490  641.332
## ORI_14605_14585 133.7660 390.643 562.174 220.6360 425.162 1240.970  604.961
## ORI_14607_14586 128.5280 315.088 447.293 197.9470 379.751 1137.410  506.599
## ORI_14609_14587 196.4330 265.176 435.385 309.6110 652.563 1383.210  639.112
## ORI_14617_14591 299.9730 365.013 389.801 308.1790 383.742  927.695  998.004
## ORI_14623_14594 253.0100 445.951 321.649 192.6310 264.001 1346.360  934.960
## ORI_14629_14597  29.3817 256.062 497.063 384.5420 415.059 1001.380  419.987
## ORI_14631_14598 152.8740 247.012 343.419 201.5390 357.619 1231.880  611.436
## ORI_14633_14599 250.6500 344.917 531.932 293.4090 404.478 1600.620  662.852
## ORI_14635_14600 277.9590 354.769 332.163 241.9460 401.046 1912.220  676.538
## ORI_14639_14602 124.5680 591.507 409.713 302.3090 265.465 1342.800  755.098
##                  [,3382]   [,3383] [,3384]  [,3385]   [,3386] [,3387] [,3388]
## ORI_10219_10218  927.751  746.0730 209.642  676.470   90.9610 128.504 452.346
## ORI_10735_10730 1207.270  597.3010 518.174  856.148  497.4400 323.454 441.179
## ORI_14605_14585 1254.690  819.1120 282.003  881.305  375.6300 243.430 494.802
## ORI_14607_14586 1298.720  835.5370 482.558 1285.800  718.7210 192.745 545.664
## ORI_14609_14587 1332.360 1097.3400 640.751  957.434  692.6210 296.992 493.853
## ORI_14617_14591 1171.510  570.6190 245.097  806.809  321.7810 137.152 447.429
## ORI_14623_14594  991.794  384.6810 203.743  819.033  176.1580 102.729 483.773
## ORI_14629_14597  756.014  645.2930 281.283  578.411  673.6550 178.399 486.961
## ORI_14631_14598 1433.530  929.7030 621.600  871.780  419.7350 346.130 333.572
## ORI_14633_14599 1496.260  409.0340 240.932  963.191  409.2260 277.750 555.858
## ORI_14635_14600  955.011  291.6080 153.214 1047.280  110.0410 181.764 466.516
## ORI_14639_14602 1119.280  300.1520 185.086  578.805   62.9609 129.742 466.519
##                 [,3389]  [,3390] [,3391]  [,3392]  [,3393] [,3394]  [,3395]
## ORI_10219_10218 637.209 141.7630 206.939 282.8590  878.078 362.571 230.5480
## ORI_10735_10730 618.115 325.9060 273.802 131.2810  361.396 297.548 192.5920
## ORI_14605_14585 585.684 247.0060 265.708 192.4060  561.257 387.691 266.0570
## ORI_14607_14586 757.214 633.5500 271.266 301.7150  787.949 336.349 284.1580
## ORI_14609_14587 750.350 368.5550 237.613 528.1620  564.986 367.040 219.6900
## ORI_14617_14591 595.814  83.3198 123.934 154.6650 1072.740 628.077 284.1000
## ORI_14623_14594 647.561 122.8900 225.738 145.8710  607.496 406.024 312.2270
## ORI_14629_14597 597.064 133.0940 265.333 112.5990  268.100 252.221 220.7310
## ORI_14631_14598 779.606 285.2920 291.265 290.2410  445.107 323.627 165.8920
## ORI_14633_14599 710.391 236.3410 280.778 149.4440  609.482 391.639 221.1130
## ORI_14635_14600 661.100 177.0010 265.221 110.4470  622.938 394.322 270.1050
## ORI_14639_14602 728.913  93.9673 246.656  52.3189  503.617 423.855 161.5440
##                  [,3396] [,3397]  [,3398]  [,3399]  [,3400]  [,3401]  [,3402]
## ORI_10219_10218  822.120 756.060  565.926  394.744  793.038 133.3290  49.9814
## ORI_10735_10730  626.121 559.258  543.338 1126.960 2302.740 135.6340  88.6545
## ORI_14605_14585 1194.770 452.155  630.503  747.940 2169.640 220.0010 205.6770
## ORI_14607_14586 1978.960 310.045  692.148 1747.310 1279.460  81.7976 416.4450
## ORI_14609_14587 1651.290 324.083  661.958 1170.540 2290.980 485.8340 148.3780
## ORI_14617_14591 1119.520 450.419  429.546  382.066 2581.120 216.0200  24.6827
```

```
## ORI_14623_14594  826.732 834.734  533.653  320.923 2513.850 145.4060 107.8170
## ORI_14629_14597  602.082 563.445  735.991  962.589 1729.430 171.9930  24.6827
## ORI_14631_14598 1195.610 596.566  684.592 1081.130 2047.970 203.6200 194.7170
## ORI_14633_14599 1000.720 550.875  561.925  629.167 3313.320 381.9980  56.0087
## ORI_14635_14600  998.417 587.794  530.913  521.954 2254.820 371.0130  24.6827
## ORI_14639_14602  822.713 577.053  496.441  709.928 1314.460 498.2430  34.2363
##                   [,3403]  [,3404] [,3405]  [,3406]  [,3407]  [,3408]  [,3409]
## ORI_10219_10218   56.7499 335.7560 610.873  556.738  915.512 361.1250 221.5370
## ORI_10735_10730  304.6540  42.9123 550.835  789.809  546.162 150.5790 236.3900
## ORI_14605_14585  684.0920 154.8640 509.293  652.635  553.421 236.3040 188.0560
## ORI_14607_14586 1588.3200  93.7775 674.595  751.255  517.939 149.8920 121.6330
## ORI_14609_14587  289.9670  93.5688 529.506  480.813  550.908 183.2270 263.7620
## ORI_14617_14591   62.4377 198.6800 518.815  599.374  963.733 132.0400  67.6693
## ORI_14623_14594  113.5640 247.5660 456.431  513.037  652.909 289.6900  91.0974
## ORI_14629_14597   42.2605  71.8544 630.398  696.308  461.695 341.5120 130.1850
## ORI_14631_14598  532.6330  65.8961 646.057  567.037  332.514 182.9570 133.5930
## ORI_14633_14599  164.4160  84.1811 678.863  692.019  715.357 174.6380 270.0300
## ORI_14635_14600   46.2402  93.1756 591.818  458.980  684.060 262.7030 118.3480
## ORI_14639_14602   57.4924  46.5920 429.553  789.904  591.880 221.9530  52.6419
##                  [,3410] [,3411]   [,3412]  [,3413] [,3414]  [,3415]  [,3416]
## ORI_10219_10218  98.7642 215.374  183.2970 165.7710 1626.66 151.8010 1343.340
## ORI_10735_10730 178.9090 180.788  142.0960 207.8170 2247.93  79.8296 1276.740
## ORI_14605_14585 109.9440 278.209  251.4670 246.6560 1433.61 108.3140 1313.520
## ORI_14607_14586 286.1990 191.901  569.0220 185.3960 3157.72 135.3440 1342.920
## ORI_14609_14587 250.5750 363.974  795.1650 254.1360 3121.62 122.0940 1642.880
## ORI_14617_14591  44.4164 225.016  154.2460 237.8090 1322.83 112.7690 1397.160
## ORI_14623_14594  44.9451 195.212  133.9290 281.3370 1457.34 151.5460 1276.740
## ORI_14629_14597  48.3977 272.523  461.2500 160.6070 2973.82  73.2634 1513.010
## ORI_14631_14598 163.2760 332.946  654.4420 172.9760 2324.83 291.1060 1835.840
## ORI_14633_14599 155.8710 394.618   68.1384 170.1590 3427.18  79.9924 1498.530
## ORI_14635_14600  52.4211 272.275   78.7964 177.1720 1906.51  90.2189 1295.200
## ORI_14639_14602  35.3447 131.463  140.9620 295.1710 1248.92  67.1256  973.805
##                  [,3417]  [,3418] [,3419] [,3420]  [,3421]  [,3422] [,3423]
## ORI_10219_10218  354.109 195.0140 2558.94 283.112  918.616 307.3480 389.404
## ORI_10735_10730 1888.830 254.4870 2370.58 282.717  872.949 112.8220 487.681
## ORI_14605_14585  376.171 317.7480 2677.30 181.444  963.010 234.3040 353.431
## ORI_14607_14586  608.876 577.9060 2361.17 160.085  717.274 135.9760 550.302
## ORI_14609_14587 1227.550 368.6230 2349.92 234.689 1152.830 103.4780 470.353
## ORI_14617_14591  207.194  71.4486 2829.08 122.721  902.759 176.4540 416.989
## ORI_14623_14594  341.702  65.3279 2453.91 249.444  700.158 220.2750 508.250
## ORI_14629_14597  741.511  89.9215 2574.85 330.697 1215.790  89.7108 440.956
## ORI_14631_14598 1797.920 341.5000 2776.25 217.986  745.441 220.6750 649.341
## ORI_14633_14599  232.094 210.0060 2403.84 324.368 1090.410 211.2980 408.401
## ORI_14635_14600  441.769 159.7930 2562.51 311.621  914.117 198.9970 378.524
## ORI_14639_14602  442.640  24.6827 2229.00 310.119  808.533 228.4140 395.926
##                  [,3424]   [,3425]  [,3426] [,3427] [,3428] [,3429]  [,3430]
## ORI_10219_10218  547.172  908.6790 264.3280 240.637 389.705 311.306 125.3440
## ORI_10735_10730  591.724  505.2900 344.6930 391.281 433.875 374.283 152.9150
## ORI_14605_14585  484.402 1277.4700 102.7860 355.759 391.772 393.003 187.5010
## ORI_14607_14586  514.932  398.0360 175.3380 285.287 395.423 493.769  75.9752
## ORI_14609_14587  863.338  585.2060 275.5420 262.313 436.009 548.617 152.5000
## ORI_14617_14591  570.035 1213.0100 252.8960 355.644 477.553 560.073 104.8020
## ORI_14623_14594  457.794  750.6310 160.9290 294.549 246.746 373.524 123.8250
## ORI_14629_14597  455.659  858.6860 158.3760 320.673 364.267 564.259 167.6120
```

```
## ORI_14631_14598  684.096  680.6200 333.4290 252.465 354.848 515.111 175.5090
## ORI_14633_14599  737.284  316.5060 193.5640 267.008 456.762 405.867 204.7130
## ORI_14635_14600  616.443  600.2980 158.2050 342.034 384.791 364.799 206.4440
## ORI_14639_14602  325.215  456.1830 267.6500 376.976 371.936 589.063 193.3440
##                   [,3431] [,3432]  [,3433]  [,3434]  [,3435] [,3436]  [,3437]
## ORI_10219_10218  350.7060 206.369  506.344 126.1870 184.4010 641.056 241.4160
## ORI_10735_10730  450.2830 246.739  610.143 129.8630 185.7760 315.374 176.6770
## ORI_14605_14585  299.9750 246.833  473.440 160.4570 179.6330 307.916 281.3390
## ORI_14607_14586  360.9690 278.274  579.362 179.4000 212.5310 317.150 102.3660
## ORI_14609_14587  336.3900 191.643  611.894 221.6780 116.5410 237.800 144.7530
## ORI_14617_14591  155.3040 205.906  270.668 115.2720 127.3870 170.701 228.6780
## ORI_14623_14594   88.7702 155.397  394.974 164.2300 171.7730 292.806 403.3490
## ORI_14629_14597  437.2290 539.521  601.653 211.0770 413.2540 297.115 162.3990
## ORI_14631_14598  522.4470 280.792  701.118 165.1960 216.2410 240.128 218.2210
## ORI_14633_14599  116.3040 192.403  373.239 144.8220 100.2150 412.877 278.9790
## ORI_14635_14600  404.6000 237.885  682.661 848.3850 153.7780 377.400 266.2190
## ORI_14639_14602  146.6690 214.202  593.147 203.6840 152.0650 388.529 245.7150
##                 [,3438]  [,3439]  [,3440]  [,3441]  [,3442] [,3443] [,3444]
## ORI_10219_10218 373.123  78.7068  317.922  594.814  656.125 311.375 583.931
## ORI_10735_10730 270.526 418.8390  528.906  999.135  532.806 304.069 292.993
## ORI_14605_14585 452.176 113.5280 1163.040  579.546  551.441 213.123 223.131
## ORI_14607_14586 268.705 130.1640  872.507 1257.360  393.500 204.886 423.545
## ORI_14609_14587 353.532 420.3250  852.905  604.268  440.065 175.001 484.912
## ORI_14617_14591 166.201  54.0584  782.385  403.826  441.033 303.038 728.791
## ORI_14623_14594 419.996 146.7720 1719.310  260.776  375.641 308.606 255.873
## ORI_14629_14597 928.627 156.3860  601.181 1480.960 1169.130 321.990 162.400
## ORI_14631_14598 530.380 460.1750 1035.760  752.726  547.012 209.610 350.846
## ORI_14633_14599 388.426  72.8940 1282.440  221.382  212.198 374.822 359.894
## ORI_14635_14600 251.889 228.9170 1147.000  540.261  633.150 571.896 250.465
## ORI_14639_14602 508.864 191.0950 1301.690  867.937  576.047 555.723 215.584
##                  [,3445]  [,3446] [,3447] [,3448] [,3449]  [,3450]  [,3451]
## ORI_10219_10218 2084.240  231.079 311.429 3106.72 1898.24 1291.300  456.189
## ORI_10735_10730 1712.470  826.678 226.100 5024.35 5211.65 3493.670  635.346
## ORI_14605_14585 1131.700  371.171 202.156 4613.88 3424.92 2236.870  758.193
## ORI_14607_14586 2294.330  453.652 181.766 6288.01 6913.08 5012.590 2106.960
## ORI_14609_14587 1356.500 1289.130 293.437 6031.12 5568.74 3623.430 1620.350
## ORI_14617_14591 2317.990  224.979 258.451 3585.73 2356.07 1526.600  264.669
## ORI_14623_14594 1338.860  376.585 400.905 3063.86 2247.25 1575.210  183.750
## ORI_14629_14597 2075.000  312.557 243.647 4330.62 2934.71 2163.480  205.737
## ORI_14631_14598 1742.490  819.431 418.054 4900.55 3871.22 2652.330  592.277
## ORI_14633_14599 1052.190  354.586 349.122 4188.31 3398.33 2486.590  845.915
## ORI_14635_14600  722.499  367.238 426.168 2966.86 2229.48 1728.400  349.543
## ORI_14639_14602 1083.920  210.239 208.684 3133.00 2810.54 2431.270  233.469
##                  [,3452]  [,3453]  [,3454]   [,3455]   [,3456]  [,3457]
## ORI_10219_10218  622.741 1783.440  798.443   24.6827  238.4760 1020.230
## ORI_10735_10730  767.839 1743.320 1415.510  103.7270  297.8320 1487.480
## ORI_14605_14585 1063.880 3012.790 2347.510  800.4940 1044.5400 1773.150
## ORI_14607_14586 2427.500 4288.400 4561.290 3272.1400 3320.0600 5427.850
## ORI_14609_14587 1539.010 3929.450 2254.290   24.6827  529.3380 4154.130
## ORI_14617_14591  410.014 1232.290 1184.960  357.9270  399.4740  995.992
## ORI_14623_14594  493.423 1396.730  475.308   65.6462  147.6080  718.725
## ORI_14629_14597  446.254 1264.120  511.911  148.8400  330.1060  657.174
## ORI_14631_14598 1025.460 2737.320 1546.340  276.4480  571.6980 1962.230
## ORI_14633_14599 1071.930 2423.660 1306.360  751.2220  820.8960 3134.130
```

```
## ORI_14635_14600  614.201 1625.500  655.643   82.1028  174.2150 1205.170
## ORI_14639_14602  362.702  565.361  888.586   39.0533  135.2610  861.880
##                  [,3458]  [,3459]   [,3460]  [,3461]  [,3462]  [,3463]  [,3464]
## ORI_10219_10218 1577.710 1448.330   24.6827 1328.170 2258.190 1424.760 1464.250
## ORI_10735_10730 1912.070 2011.230  618.3740 1564.630 4109.570 3306.780 3170.390
## ORI_14605_14585 3200.760 3028.790   24.6827 2623.160 3181.040 2606.410 1815.310
## ORI_14607_14586 6771.900 6515.190   24.6827 5411.160 4279.800 4304.890 4131.340
## ORI_14609_14587 4873.810 4638.130 1337.7800 3800.630 3815.770 3671.810 3426.500
## ORI_14617_14591 1473.650 1412.330   24.6827 1314.030 1696.280 1922.330 1293.090
## ORI_14623_14594 1042.580 1161.800   24.6827  942.068 1829.370 1872.380 1323.280
## ORI_14629_14597  996.349 1041.840   24.6827  947.068 2065.280 2172.200 1851.550
## ORI_14631_14598 2578.970 2416.260   24.6827 2313.480 3257.360 2778.240 2462.740
## ORI_14633_14599 3381.690 3199.870   24.6827 2673.370 2193.030 2543.000 2102.320
## ORI_14635_14600 1290.640 1393.690   24.6827 1111.060 1759.740 1716.590 1415.260
## ORI_14639_14602 1083.150 1148.760  182.8800  969.728 1644.190 1580.610 2122.260
##                  [,3465]  [,3466]  [,3467] [,3468] [,3469] [,3470]  [,3471]
## ORI_10219_10218 702.3770  86.5925  24.6827 504.784 304.433 265.981  317.452
## ORI_10735_10730  74.2784 121.4000 192.6200 388.103 551.116 490.683  796.086
## ORI_14605_14585 159.7870  84.9959  44.5173 438.216 655.109 348.521  470.675
## ORI_14607_14586 401.0470 308.7390  26.0063 473.930 558.716 303.553  550.739
## ORI_14609_14587 242.6720 110.7160  31.7672 599.795 538.465 372.240  349.950
## ORI_14617_14591 901.6720  40.5434  24.6827 542.541 445.974 321.882  360.544
## ORI_14623_14594 430.8030  40.8926  46.2087 473.186 462.595 267.674  345.309
## ORI_14629_14597 158.9870  77.6232  24.6827 503.736 783.018 246.950  569.306
## ORI_14631_14598 131.5340 120.9320  25.8875 490.923 386.678 308.978  519.128
## ORI_14633_14599 264.6270  90.6024 196.6150 638.291 625.695 389.304  492.053
## ORI_14635_14600 333.1690 112.8450 253.0760 614.133 473.598 269.857  469.540
## ORI_14639_14602 129.8170  76.9881 234.3990 462.054 294.016 430.210  679.746
##                 [,3472]  [,3473] [,3474]  [,3475]  [,3476] [,3477]  [,3478]
## ORI_10219_10218 175.457  67.9018 4093.22  403.152  364.744 421.325 300.4050
## ORI_10735_10730 323.317 179.7790 3755.49 1030.380  573.070 471.928 202.2860
## ORI_14605_14585 144.367  82.8371 4575.33 1137.860  428.184 493.316 190.0020
## ORI_14607_14586 229.359  49.4397 3693.06  548.003  199.055 729.158  90.7973
## ORI_14609_14587 163.135  51.3766 4561.52 1066.560  396.413 398.675 216.6190
## ORI_14617_14591 207.621  37.7542 4086.00  259.139  361.845 402.302 329.3280
## ORI_14623_14594 215.500  60.1558 4219.53  900.166  570.548 589.791 297.9710
## ORI_14629_14597 221.318 412.8430 4409.14  648.410  206.699 524.211 335.2100
## ORI_14631_14598 123.201 103.6820 3686.55  737.728  395.113 573.951 264.9570
## ORI_14633_14599 193.877  50.4624 4907.36  810.663  468.063 577.331 317.4120
## ORI_14635_14600 271.349  64.3800 3769.30 1205.000  514.254 533.494 292.3110
## ORI_14639_14602 144.021 888.4170 3997.30 1396.090  669.849 448.987 323.2060
##                  [,3479]  [,3480] [,3481] [,3482]  [,3483]   [,3484] [,3485]
## ORI_10219_10218  667.934  969.116 2095.50 1625.02  441.807  351.8600 545.724
## ORI_10735_10730  477.836 1947.020 2450.23 1833.15  985.654 3005.5500 330.415
## ORI_14605_14585  498.197 2264.200 2767.55 2065.02  546.542  330.6710 345.866
## ORI_14607_14586  280.720 1860.910 1972.48 1451.44  618.323 1257.7300 288.197
## ORI_14609_14587  465.466 1938.750 2534.96 2141.09  735.250 1384.7000 353.305
## ORI_14617_14591  679.178 1479.990 1680.49 1749.50  529.806  140.6710 533.326
## ORI_14623_14594  909.880 1923.360 1901.13 2016.55  639.525  103.5110 490.768
## ORI_14629_14597  696.705 2190.190 2338.03 1403.07  438.568  425.3200 262.512
## ORI_14631_14598  601.567 2272.720 2218.84 1621.62  698.999 1716.7900 386.623
## ORI_14633_14599 1116.290 2184.080 2724.57 2059.38  708.421  387.9320 436.052
## ORI_14635_14600  491.748 2184.280 2182.86 2233.98  768.545  150.4270 443.604
## ORI_14639_14602  391.556 2150.290 1615.65 1775.85  724.605  278.4890 288.186
```

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##                   [,3486]  [,3487]  [,3488]  [,3489]  [,3490]  [,3491]  [,3492]
## ORI_10219_10218 1673.6800 223.0060  123.877  384.698  221.181  975.307 1189.770
## ORI_10735_10730   72.1779 157.1840  897.273  364.957  501.325  881.605 1579.550
## ORI_14605_14585  400.2590 234.1000  425.817  599.686  586.219 1140.330 1211.620
## ORI_14607_14586  615.1640 176.2870  299.769  363.593  699.028 1046.200 1080.100
## ORI_14609_14587  310.2150 219.0570  334.809  280.215  995.898 1289.360 1382.140
## ORI_14617_14591 1954.9000 245.4950  190.823  190.138  309.115  959.899 1575.560
## ORI_14623_14594 1096.7700 210.6270  411.807  687.451  219.393 1371.730 1228.400
## ORI_14629_14597  109.1870 384.9560  179.919  592.645  957.187 1226.950 1010.670
## ORI_14631_14598  173.1890 282.0750  317.340  404.229  788.219 1291.240 1343.010
## ORI_14633_14599 1213.5200 300.0440  712.885  561.823  465.881 1240.520 1451.300
## ORI_14635_14600  562.4980 339.0310  434.638  633.519  603.654 1233.540 1463.920
## ORI_14639_14602  688.4830 258.3740 1079.770  580.020  127.112 1106.550 1789.830
##                  [,3493] [,3494]  [,3495]  [,3496] [,3497] [,3498]  [,3499]
## ORI_10219_10218 4112.68 1154.34  578.074  630.078 1079.50 1750.51 116.4190
## ORI_10735_10730 4600.51 1496.07 1006.060 1348.620 1862.83 1701.45 286.4650
## ORI_14605_14585 4915.69 2075.45  666.970 1399.070 1515.22 2061.28 205.6040
## ORI_14607_14586 5456.48 1526.14  720.205 1406.660 1600.97 2048.52 442.7100
## ORI_14609_14587 5293.49 2132.64  915.928 1358.950 1836.05 2073.20 304.8150
## ORI_14617_14591 5428.58 1596.83  612.514 1065.970 1457.74 2112.76 122.8490
## ORI_14623_14594 4972.08 1635.51  579.070  842.050 1331.82 2021.20 154.4330
## ORI_14629_14597 5666.27 1762.48  568.855  829.435 1564.82 2146.41 321.4750
## ORI_14631_14598 4246.50 1633.61  566.074 1433.070 1414.76 1852.54 219.8300
## ORI_14633_14599 5645.57 2176.70  779.398 1318.010 2021.93 1780.41 313.1970
## ORI_14635_14600 4894.95 2149.21  754.298 1148.040 1650.16 2120.89 153.9860
## ORI_14639_14602 5327.09 1766.28  976.222 1353.590 1353.56 1960.05 481.3800
##                  [,3500]  [,3501]  [,3502] [,3503] [,3504]  [,3505]  [,3506]
## ORI_10219_10218  63.5733 1059.660  228.940 1653.18 215.009  510.251  858.240
## ORI_10735_10730 117.8990  874.122  464.656 2598.35 307.896 1229.300  942.646
## ORI_14605_14585  64.0240 1114.200  450.946 2169.29 319.196 1121.680 1073.930
## ORI_14607_14586 197.0770 1054.910  652.543 2430.07 282.195  966.141 1006.730
## ORI_14609_14587 147.4140 1104.480  503.500 2432.85 415.910 1156.450 1282.170
## ORI_14617_14591 135.8080 1140.080  497.201 2056.30 246.703 1155.400 1267.820
## ORI_14623_14594 150.7300  830.383  456.866 2243.54 278.589 1003.970 1234.800
## ORI_14629_14597 127.1760 1096.120  685.213 2417.69 228.998 1104.810 1373.000
## ORI_14631_14598 195.0920 1060.720  376.325 2381.49 233.812  972.842 1294.970
## ORI_14633_14599 140.0640 1127.350  612.465 2499.54 226.590 1177.960 1379.700
## ORI_14635_14600 135.5270 1240.330  556.529 2369.41 547.459 1062.990 1454.750
## ORI_14639_14602 127.8170  833.796  488.953 2280.10 513.556 1391.830 1073.010
##                  [,3507] [,3508]  [,3509] [,3510]   [,3511] [,3512] [,3513]
## ORI_10219_10218 1558.850 366.471 530.4370 425.229  668.8970 344.923 224.724
## ORI_10735_10730 1836.690 598.554 221.7210 529.446  346.7570 502.478 426.113
## ORI_14605_14585 1676.260 515.118 308.1930 509.409  259.7730 669.526 250.581
## ORI_14607_14586 1837.700 562.460 243.6930 634.762  414.6730 523.843 223.074
## ORI_14609_14587 2239.380 734.333 380.4430 715.475  558.6820 969.666 404.795
## ORI_14617_14591 1805.870 369.475 458.6980 541.051 1101.5900 381.160 228.670
## ORI_14623_14594 1425.610 444.219 322.8610 671.830  629.1350 585.506 247.977
## ORI_14629_14597 1816.670 316.578 185.3200 736.237 1120.2700 615.601 322.606
## ORI_14631_14598 1563.270 535.412 301.9160 543.186  477.0490 498.345 257.215
## ORI_14633_14599 2311.640 461.525 344.1330 479.426  423.9430 637.378 393.566
## ORI_14635_14600 1828.160 547.384 150.2290 796.572  587.1490 469.298 320.583
## ORI_14639_14602 1958.820 389.971 110.9440 496.184  527.7670 227.635 212.857
##                   [,3514]  [,3515]  [,3516]  [,3517]   [,3518] [,3519]  [,3520]
## ORI_10219_10218 1801.5100  57.6227 105.9200  292.661   36.8251 627.048  24.6827
```

```
## ORI_10735_10730 1621.1300 358.2160 356.4760  292.755  111.3270 258.773 319.1680
## ORI_14605_14585  593.1480 245.4580 140.2800  377.702   58.0260 460.478 115.3430
## ORI_14607_14586  857.9320 121.4770  92.9713  311.486   41.2247 442.477 106.8420
## ORI_14609_14587 1268.9800 377.5990 400.0670  601.802  138.1790 277.153 836.4220
## ORI_14617_14591 1900.5300  68.7965  85.6260  345.793   29.3182 678.529  24.6827
## ORI_14623_14594  822.5600 393.3550 104.1440  498.192  112.9310 518.175  24.6827
## ORI_14629_14597 2734.3000 449.2720 448.7470  657.439   44.0349 445.302  24.6827
## ORI_14631_14598 1545.3100  97.5410  62.0201  412.429   47.5923 310.176  71.4790
## ORI_14633_14599  724.1690 207.8560 170.7230  448.698   53.3581 440.280  24.6827
## ORI_14635_14600  519.0990 701.1900 249.6120  321.936  120.5080 449.331  24.6827
## ORI_14639_14602  531.7860 337.3130 193.7440  239.409   83.5875 359.525  32.9433
##                 [,3521]  [,3522] [,3523]  [,3524]  [,3525] [,3526]  [,3527]
## ORI_10219_10218 175.907 125.2120 555.771  72.0953 172.9640 185.327 228.4960
## ORI_10735_10730 179.865 190.9510 358.573 475.6890 420.2580 368.329 111.6430
## ORI_14605_14585 203.331 115.9830 342.376  59.5453 233.4690 239.238 190.9240
## ORI_14607_14586 226.973 139.5390 227.464  47.7581 193.9170 162.647 135.4640
## ORI_14609_14587 211.263 167.2530 283.086 301.4250 179.9590 348.868 112.3730
## ORI_14617_14591 218.865  84.0014 217.438  27.4425  70.0035  67.593 351.2860
## ORI_14623_14594 275.420  79.4462 483.129  42.7061 325.8150 197.997 186.3910
## ORI_14629_14597 297.396 143.2230 435.547 120.1010 241.4800 248.192 232.5640
## ORI_14631_14598 182.448 100.9170 287.138  79.1388 249.2430 193.619 131.1150
## ORI_14633_14599 205.579  98.2873 479.478 302.4540 344.5080 435.628 283.3470
## ORI_14635_14600 356.912  91.6622 456.611  39.7882 293.1900 273.393 193.2010
## ORI_14639_14602 370.544 301.5340 535.947 552.6720 349.3910 646.199 183.3770
##                  [,3528]  [,3529]   [,3530]  [,3531]   [,3532]  [,3533]
## ORI_10219_10218  72.7219  24.6827  101.5510 240.5800  714.6980 1286.830
## ORI_10735_10730 396.3240 252.2700  137.7770 148.0270   24.6827  787.876
## ORI_14605_14585 324.1640  80.0894   92.8111 251.6620   24.6827  622.642
## ORI_14607_14586  58.4978  41.6708  208.8550 168.4120   68.3371 1328.810
## ORI_14609_14587 237.9030  82.2907 1123.6900 221.1530   94.9316  731.320
## ORI_14617_14591  61.2938  24.6827  159.8990 142.2080  354.2760 1531.200
## ORI_14623_14594 215.9330  34.7183  133.5180 185.8400  186.0540 1073.140
## ORI_14629_14597  65.0982  39.5639  117.2890 199.4000   24.6827  457.819
## ORI_14631_14598 256.3940 100.0830  212.2870 181.2510   24.6827  782.038
## ORI_14633_14599 370.9050 185.6260   49.9313 259.2930  109.5810  551.999
## ORI_14635_14600 399.2310 106.6180   94.5309 266.0460   75.9042  677.606
## ORI_14639_14602 836.4010 544.5000   82.9949 221.3680   55.3889  371.977
##                  [,3534]  [,3535]  [,3536]  [,3537]  [,3538] [,3539] [,3540]
## ORI_10219_10218 687.7150  92.2731  838.562 164.4980  71.7998 820.232 634.154
## ORI_10735_10730  86.1587  83.3045  351.471 228.3720 119.0950 518.189 402.867
## ORI_14605_14585 131.1910 105.2950  249.453 237.1280 280.3350 693.146 508.841
## ORI_14607_14586 293.6430 152.2760  614.430 247.2820 152.7570 626.965 463.043
## ORI_14609_14587 191.4830  84.4351  575.057 335.2170 110.2810 349.224 329.444
## ORI_14617_14591 744.6860  52.0225  991.363 125.4880  48.2318 298.357 288.278
## ORI_14623_14594 487.6310  99.9562  463.308 126.9610  75.4272 795.423 560.222
## ORI_14629_14597 168.7200 102.1720  237.792 187.5010  65.7257 725.430 549.450
## ORI_14631_14598 100.9850  92.3352  360.270 287.3200 142.5430 566.715 348.062
## ORI_14633_14599 213.7530 188.0860  362.528 251.0330 104.9120 648.815 511.225
## ORI_14635_14600 219.1200 146.2580  397.862 199.9530 134.5020 660.233 498.239
## ORI_14639_14602 115.6820 148.3260  386.848 171.2720  48.5497 655.050 535.291
##                 [,3541]  [,3542]   [,3543] [,3544] [,3545] [,3546]  [,3547]
## ORI_10219_10218 321.658 187.3140 1319.5900 315.559 376.029 486.428 153.8860
## ORI_10735_10730 372.791 286.2820  565.9000 302.747 311.560 501.646 290.6640
## ORI_14605_14585 303.155 130.0530 1838.9100 263.311 215.782 480.296 120.4670
```

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## ORI_14607_14586 305.354  37.9256  988.1700 563.652 250.576 350.159 195.7720
## ORI_14609_14587 281.513  81.2393 1457.0800 369.057 441.654 383.755 274.2930
## ORI_14617_14591 289.999  46.2305  730.8910 301.955 164.350 385.443 131.2510
## ORI_14623_14594 223.110 105.8740  458.3460 417.124 189.682 532.409 135.2340
## ORI_14629_14597 333.517  37.8916 1080.5200 235.925 447.180 546.678 205.6960
## ORI_14631_14598 308.341 147.3050  630.4890 445.584 420.831 480.789 276.0220
## ORI_14633_14599 308.732  99.6339  233.7850 359.924 214.304 475.146 132.9560
## ORI_14635_14600 148.721  84.5056  490.7190 313.479 185.486 542.389 123.2090
## ORI_14639_14602 275.801 333.2670  231.6140 276.322 265.258 507.784 119.0410
##                 [,3548]  [,3549]  [,3550]  [,3551]  [,3552] [,3553]  [,3554]
## ORI_10219_10218 806.291  701.548  364.785  610.880  447.836 355.331 200.1250
## ORI_10735_10730 659.708 1149.590  620.060  924.626 1216.500 175.652 277.0110
## ORI_14605_14585 505.435  789.686  799.079  897.900  702.169 322.047 173.6470
## ORI_14607_14586 297.919  935.258  930.898  694.304  675.412 293.229 133.0650
## ORI_14609_14587 353.487 1186.050  934.411  739.232  894.119 195.085 293.1390
## ORI_14617_14591 231.382  748.612  617.032  895.626  647.094 194.639  72.5754
## ORI_14623_14594 730.190  750.526  484.156  504.081  668.863 331.461 209.2840
## ORI_14629_14597 485.126 1183.210  694.677  588.341  635.264 298.473 172.3930
## ORI_14631_14598 552.046 1486.750  814.930  589.985 1067.670 256.730 267.4900
## ORI_14633_14599 525.001 1084.730  973.207  726.261  535.638 372.649 201.0810
## ORI_14635_14600 679.322  883.258  613.358  545.453  893.884 397.972 285.7420
## ORI_14639_14602 635.042  779.398  931.024  773.767  637.114 350.060  78.8811
##                 [,3555]  [,3556]  [,3557]   [,3558]  [,3559]  [,3560]  [,3561]
## ORI_10219_10218 242.997 462.1650 146.7600  458.2750  32.3559  794.175 492.0190
## ORI_10735_10730 653.511 155.3430 490.6150   24.6827 248.1620  502.328 196.9210
## ORI_14605_14585 235.760 159.5250 183.3300   54.5521  66.5539  656.925 231.4160
## ORI_14607_14586 241.392 246.1620 179.8220  183.4820  40.6624  562.474 368.6410
## ORI_14609_14587 424.710 114.5090 153.1880  102.0450  53.4072  521.763 194.6450
## ORI_14617_14591 260.136  78.1500 197.3630  388.3720  46.2560  400.539 519.8700
## ORI_14623_14594 173.062 217.6390 300.0760  170.2990  24.6827  444.670 224.6630
## ORI_14629_14597 306.026 171.3240 159.8300   75.5940 197.8760  730.369 112.3710
## ORI_14631_14598 393.514 145.3090 230.2460  159.9080  40.6216  811.772 264.7250
## ORI_14633_14599 274.640 187.1550 348.2300  172.9520  24.6827  663.938 236.0920
## ORI_14635_14600 208.887 185.7420 232.5350  145.4190  24.6827  466.681 147.4910
## ORI_14639_14602 186.673 135.1170 240.5180  151.5630  37.8610  427.857  84.5087
##                  [,3562]  [,3563]  [,3564]  [,3565] [,3566]  [,3567] [,3568]
## ORI_10219_10218  783.245 1169.540  966.543  851.445 285.490  627.603 345.705
## ORI_10735_10730 1331.590 1171.980  771.479  629.565 268.114  580.368 313.780
## ORI_14605_14585 1620.200 1233.300 1224.260  924.208 294.020  617.121 335.183
## ORI_14607_14586 1240.960 1196.830  985.955  893.730 307.375  708.635 226.929
## ORI_14609_14587 1393.100 1924.530 1178.270 1095.440 404.552  364.768 380.869
## ORI_14617_14591  867.253 1098.170 1040.980  836.745 173.234  363.644 442.698
## ORI_14623_14594 1338.060  588.622  501.360 1181.520 271.884  654.390 347.184
## ORI_14629_14597  885.263  961.491  733.775 1015.800 342.544  540.417 180.489
## ORI_14631_14598 1600.500 1882.080  670.554 1016.620 337.401  405.584 392.919
## ORI_14633_14599 1483.970 1354.000 1171.860 1095.820 293.904  716.417 315.248
## ORI_14635_14600 1637.940  564.804  977.322 1220.480 262.427  492.440 542.513
## ORI_14639_14602 1504.250  965.893  578.228  950.846 248.745  572.882 341.140
##                  [,3569]  [,3570]   [,3571]  [,3572]   [,3573] [,3574]  [,3575]
## ORI_10219_10218  545.506 231.3110  968.6820 3090.040  674.9480 252.498  736.695
## ORI_10735_10730  989.869 204.1820  202.0880 1849.830  713.3180 630.418 1341.330
## ORI_14605_14585  675.042 100.3330  275.4780 2884.740  194.0120 358.015  910.798
## ORI_14607_14586 1226.970 206.1990  433.4140 2072.980  330.4680 387.109 1673.950
## ORI_14609_14587  963.372 342.6300  209.2040 2975.860 1426.6200 416.362 1612.040
```

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## ORI_14617_14591  498.489 196.3820  921.8470 1606.100  215.0910 243.133  834.856
## ORI_14623_14594  515.610 211.3640  545.2170  926.747  149.0120 248.815  768.176
## ORI_14629_14597 1270.940 178.7820  169.5270 2045.630  251.9660 331.270 1649.760
## ORI_14631_14598 1258.290 216.8830  248.8300 2417.230 1029.7000 484.766 1826.750
## ORI_14633_14599  741.637 237.3690  270.1300 1671.090  361.1850 385.340  926.142
## ORI_14635_14600  484.730 294.5100  430.1390 1649.070  111.9240 273.883  727.238
## ORI_14639_14602  759.320 225.3140  312.0640 1417.320  260.8130 430.344 1253.870
##                  [,3576]  [,3577] [,3578]  [,3579]  [,3580] [,3581]  [,3582]
## ORI_10219_10218  750.667  618.184 3957.47  364.859  775.404 338.350 211.0530
## ORI_10735_10730  959.426  760.106 3453.10  571.439 2312.020 387.932  83.3454
## ORI_14605_14585  523.917  687.493 3980.37  513.258  919.716 275.003  72.2021
## ORI_14607_14586  447.280  891.735 4006.44  619.168 1383.420 261.552 109.7560
## ORI_14609_14587  696.203 1021.060 3521.78  733.051 1416.980 158.382  85.9131
## ORI_14617_14591  807.891  303.350 3868.16  605.343  415.321 230.495 163.6280
## ORI_14623_14594  524.292  541.354 3677.78  403.038  309.831 227.601 100.6040
## ORI_14629_14597 1268.470  885.621 4211.21 1008.200 1943.170 197.313  74.2330
## ORI_14631_14598 1132.950  808.876 4490.20  856.664 1432.310 213.873  59.6901
## ORI_14633_14599  723.910  592.366 4624.83  854.900  546.914 183.071 102.9440
## ORI_14635_14600  500.414  563.303 3645.37  623.020  236.137 323.539  95.1054
## ORI_14639_14602  498.173  526.951 3749.07  762.041  630.344 176.172 120.7800
##                  [,3583]  [,3584] [,3585]  [,3586] [,3587]  [,3588]  [,3589]
## ORI_10219_10218 202.9660 1464.110 438.797 1176.980 2898.48  988.605 158.5370
## ORI_10735_10730 299.6970  736.624 502.534 1096.560 3136.76 1055.660 209.4750
## ORI_14605_14585 187.2680 1465.790 352.500  990.908 3587.31 1091.370 253.9160
## ORI_14607_14586 130.4180 1024.900 305.463  841.161 3093.16 1164.810 183.9510
## ORI_14609_14587 139.8080 3428.840 381.982  939.040 3263.86 1383.470 259.5910
## ORI_14617_14591  71.0120  973.623 390.957  798.432 2864.84  912.162 128.3250
## ORI_14623_14594 122.8570  717.141 380.215  986.961 3113.39  816.288  98.6701
## ORI_14629_14597 145.9750  509.273 255.967  855.520 2751.58 1055.720 184.1690
## ORI_14631_14598 178.8210 1579.540 332.445 1111.840 3656.49 1346.070 241.5640
## ORI_14633_14599 160.5390 2506.310 271.473 1202.640 3100.38 1105.170 141.1020
## ORI_14635_14600 145.9970  359.235 402.447  883.050 3241.21 1013.980 168.1320
## ORI_14639_14602 147.4540  271.861 275.071 1095.600 2629.59 1239.630 155.9010
##                 [,3590] [,3591]  [,3592]  [,3593] [,3594]  [,3595] [,3596]
## ORI_10219_10218 2099.83 362.679  764.461 271.4560 163.264  411.204 578.954
## ORI_10735_10730 2790.22 375.314  890.805 341.0470 265.795  634.687 614.495
## ORI_14605_14585 1934.74 454.735  868.894 191.6710 170.840  485.519 700.895
## ORI_14607_14586 1776.21 431.293  855.418 225.7550 217.846  544.432 606.937
## ORI_14609_14587 2129.72 377.533  775.051 294.2460 342.830  524.356 740.429
## ORI_14617_14591 1817.22 258.171  864.539 206.0120 160.943  387.589 515.815
## ORI_14623_14594 1384.60 378.171  506.992 160.1220 102.595  482.285 584.281
## ORI_14629_14597 1232.75 382.380  432.064 255.2040 207.328  923.656 500.978
## ORI_14631_14598 2561.25 593.305  950.535 169.8430 166.383  665.641 604.860
## ORI_14633_14599 2113.54 324.716  881.262 466.7440 193.205  347.625 738.130
## ORI_14635_14600 1281.11 402.864  547.516 300.2010 151.022  460.362 651.515
## ORI_14639_14602 1539.11 252.270  906.370 280.9510 230.313  464.150 414.459
##                 [,3597] [,3598] [,3599] [,3600]  [,3601] [,3602] [,3603]
## ORI_10219_10218 367.555 222.248 558.847 1035.22  97.8521 408.124 2223.92
## ORI_10735_10730 440.518 361.900 436.928 1317.28 396.4690 598.410 2138.06
## ORI_14605_14585 476.744 226.991 411.079 1395.55 208.6060 550.980 1777.44
## ORI_14607_14586 382.772 292.522 465.435 1742.37 269.3330 533.688 1750.68
## ORI_14609_14587 445.793 305.059 506.079 1668.20 326.9890 531.955 2510.59
## ORI_14617_14591 367.325 205.814 544.744 1116.36  87.4965 370.909 1963.78
## ORI_14623_14594 337.409 220.153 372.236 1260.84  91.4060 426.059 1462.09
```

```
## ORI_14629_14597 332.045 224.378 330.696 1181.56 251.4870 471.182 1922.38
## ORI_14631_14598 500.483 363.669 407.036 1667.01 366.7950 796.570 1780.10
## ORI_14633_14599 316.949 527.658 626.582 1359.18 181.4430 554.763 1953.90
## ORI_14635_14600 333.523 356.082 482.502 1963.00 163.6430 560.273 1585.38
## ORI_14639_14602 215.686 295.342 500.993 1246.84 334.1190 573.968 1591.43
##                 [,3604] [,3605]  [,3606]  [,3607]  [,3608]   [,3609]  [,3610]
## ORI_10219_10218 3918.61 1968.84 1040.620 273.0320 1704.360  271.1830 176.7600
## ORI_10735_10730 2894.85 2705.41 1220.800 360.9600  801.263  203.2940 193.2750
## ORI_14605_14585 2556.13 2656.47 1313.500 142.2030  779.691  420.3800 141.5230
## ORI_14607_14586 3128.55 2072.47 1035.820 225.4780  958.101  348.9220  84.1452
## ORI_14609_14587 2521.72 2772.81 1510.190 185.3040 1216.190  426.6630 153.1650
## ORI_14617_14591 3685.28 2175.28  871.399 116.8220 1581.730  193.6560 113.4680
## ORI_14623_14594 3024.80 2228.73 1062.510 162.7860 1068.180  158.0000  86.1146
## ORI_14629_14597 2155.58 2855.47 1122.210 216.7500  869.862 1001.9000 128.8560
## ORI_14631_14598 2488.44 3183.96 1660.150 165.3200 1162.880  328.6780 139.8110
## ORI_14633_14599 3405.02 2969.04 1361.790 211.7960  494.812  340.0040 146.1290
## ORI_14635_14600 3564.57 2754.46 1102.490 161.4710  992.544  167.7490 121.9030
## ORI_14639_14602 3298.64 2805.88 1076.320 102.6650  709.508  125.0450 277.0700
##                  [,3611] [,3612]  [,3613]  [,3614]  [,3615]   [,3616]  [,3617]
## ORI_10219_10218  674.682 148.373 123.4520  790.635  672.032  756.8330 282.1150
## ORI_10735_10730  476.844 150.968 216.4780  996.995  407.839  661.6880 271.0840
## ORI_14605_14585  381.536 187.843 148.9210  736.830 1041.170  295.4810 446.3620
## ORI_14607_14586  425.139 230.921 166.9560  714.816  563.568  395.0420 518.7680
## ORI_14609_14587  465.633 262.419 282.7970  962.557  744.220  620.4580 561.3130
## ORI_14617_14591  827.152 123.366 211.2550  848.158  683.041  853.0500 352.1320
## ORI_14623_14594  589.028 271.074 125.7180  581.171  437.521  606.6010 353.7280
## ORI_14629_14597  810.267 321.323 382.0160  680.188  947.213  156.2600 384.7840
## ORI_14631_14598  652.556 256.967 275.6980  751.778  865.929  477.1690 423.0790
## ORI_14633_14599  653.253 209.133 176.8910 1136.490  482.680  263.3070 308.9220
## ORI_14635_14600  778.253 179.629 198.8190  880.309  435.198  391.5860 258.5270
## ORI_14639_14602  500.241 235.670 228.7750  474.797  360.959  590.2150 254.6340
##                 [,3618]  [,3619]  [,3620] [,3621]  [,3622] [,3623]  [,3624]
## ORI_10219_10218 501.551 246.8330  666.302 303.970 536.7560 271.313  595.266
## ORI_10735_10730 506.161 602.2120  608.573 313.832  47.4311 122.235 1136.020
## ORI_14605_14585 640.621 438.5310  831.643 300.757  61.8820 314.386  726.496
## ORI_14607_14586 547.013 318.1120  571.984 330.490 134.7120 250.816  668.195
## ORI_14609_14587 577.859 424.3700  897.832 458.000 128.8300 179.684  780.798
## ORI_14617_14591 678.554 132.5710  867.226 283.690 641.3650 205.252  866.336
## ORI_14623_14594 499.876 117.1930  714.039 224.460 242.4830 261.784  691.243
## ORI_14629_14597 626.928 387.6480  810.510 238.391  54.4953 226.812  514.779
## ORI_14631_14598 530.056 440.6620  801.847 268.363  79.4934 206.570  669.271
## ORI_14633_14599 641.903  92.3621  729.269 273.849 133.3110 183.409  671.038
## ORI_14635_14600 585.536 101.7020  904.445 338.879 187.9110 290.959  762.826
## ORI_14639_14602 541.599 139.9810  564.712 238.242  76.1861 245.483  856.334
##                 [,3625] [,3626] [,3627]  [,3628] [,3629] [,3630]  [,3631]
## ORI_10219_10218 536.422 252.749 435.787  866.412 273.650 300.518  767.689
## ORI_10735_10730 412.903 258.986 536.515  785.002 531.489 226.597  581.799
## ORI_14605_14585 617.497 354.987 536.281  929.905 473.026 360.664  764.806
## ORI_14607_14586 462.251 197.004 421.831 1139.600 401.246 276.743  830.648
## ORI_14609_14587 465.098 186.620 387.218 1136.740 555.230 427.712  858.353
## ORI_14617_14591 788.307 147.812 308.861 1234.500 724.349 235.146  530.895
## ORI_14623_14594 598.566 167.035 489.241  847.094 431.703 286.218  515.026
## ORI_14629_14597 746.980 113.777 434.449  849.224 391.740 415.015  539.393
## ORI_14631_14598 475.206 145.519 487.765 1311.710 555.693 444.664  800.922
```

```
## ORI_14633_14599 801.261 101.875 538.783 1059.410 465.074 231.878  592.457
## ORI_14635_14600 839.908 163.665 480.952  931.263 621.004 206.071  926.728
## ORI_14639_14602 770.219 279.015 504.706  696.129 426.262 188.225  572.952
##                  [,3632]  [,3633]  [,3634] [,3635]  [,3636] [,3637]   [,3638]
## ORI_10219_10218 1161.980 293.4010  648.925 388.684 152.9090 295.510  147.6990
## ORI_10735_10730  826.767 231.4750 1311.380 408.975 198.2880 329.314  487.6690
## ORI_14605_14585  995.093 265.9340  668.066 306.327 139.6540 305.306  236.5830
## ORI_14607_14586  972.961 298.5520  947.168 339.977 169.0260 233.230  915.8820
## ORI_14609_14587  700.940 184.6170 1064.230 246.956 179.3830 397.063  403.2050
## ORI_14617_14591  611.272 162.9300 1175.350 222.928 138.5790 196.490  115.8160
## ORI_14623_14594 1071.050 313.3060 1003.400 326.280 185.0650 169.657  131.2340
## ORI_14629_14597  892.603 192.4860  888.617 273.289 102.7110 219.235  428.2510
## ORI_14631_14598  973.606 240.8110 1157.480 247.584 159.7940 311.685  656.4950
## ORI_14633_14599 1055.960 386.9320 1022.110 393.939 144.7950 272.338  269.4020
## ORI_14635_14600  875.941 412.3540 1067.770 315.401 145.8250 271.903  120.5970
## ORI_14639_14602  785.983 394.5770 1202.040 319.575 169.7870 169.526  145.9380
##                   [,3639]  [,3640] [,3641]  [,3642] [,3643]  [,3644] [,3645]
## ORI_10219_10218  278.8640  96.8339 257.991 132.7180 283.112 249.6610 371.929
## ORI_10735_10730  245.0070 132.9880 159.949 163.7520 304.730 188.1300 285.118
## ORI_14605_14585  395.1500  99.9847 246.135 120.8190 323.805 292.6320 422.005
## ORI_14607_14586  707.5410 336.6180 269.481  48.4938 417.874 173.2120 711.895
## ORI_14609_14587  314.5730 139.9800 159.486 133.4540 344.340 191.0860 347.041
## ORI_14617_14591  264.5280  61.0599 332.514 188.5560 298.769 156.6230 200.507
## ORI_14623_14594  302.9010  50.7336 405.720  97.5707 268.189 231.5990 194.510
## ORI_14629_14597  182.8490 167.8680 254.629  83.6861 342.454 247.2330 209.831
## ORI_14631_14598  283.3540 194.5100 245.489 143.5990 369.014 193.1780 368.517
## ORI_14633_14599  217.5850  54.8968 252.164 121.5670 279.101 262.5140 270.682
## ORI_14635_14600  203.6360  36.9312 298.660 188.8220 285.421 205.2160 240.530
## ORI_14639_14602  170.5500  60.9723 283.662 159.6500 303.275 278.9750 155.041
##                 [,3646]  [,3647]  [,3648]  [,3649]  [,3650]  [,3651]  [,3652]
## ORI_10219_10218 175.024  324.302 1290.700  544.605 1166.660  632.904  727.556
## ORI_10735_10730 278.988  730.231 1703.260 2571.190 2921.050 1626.880  845.773
## ORI_14605_14585 282.278  460.971 1145.340 1510.610 3050.910 1204.800 1008.720
## ORI_14607_14586 211.974 1082.310 1274.240 1064.690 1998.350 1453.070  679.192
## ORI_14609_14587 306.191 1702.130 2307.430 2757.960 3644.090 1405.630  961.128
## ORI_14617_14591 184.581  534.432 1319.480  618.013 2738.640  681.680  837.570
## ORI_14623_14594 149.092  773.388 1152.470  837.048 2892.150 1050.040 1077.600
## ORI_14629_14597 348.935  200.986  585.040  209.512 1216.100 1420.500  454.317
## ORI_14631_14598 319.983  469.739 1343.840  657.960 2127.020 1637.780 1148.470
## ORI_14633_14599 246.648 1361.040 1040.380 3672.170 4428.500 1279.860  785.369
## ORI_14635_14600 121.239  945.400 1737.700 2587.510 3338.510  724.041  834.634
## ORI_14639_14602 305.193  253.855  680.885  402.586 1228.110 1186.990  847.905
##                 [,3653] [,3654] [,3655]  [,3656]  [,3657]  [,3658]   [,3659]
## ORI_10219_10218 438.367 596.198 673.060  775.196 255.3670 1691.880  556.2650
## ORI_10735_10730 134.501 498.321 614.334  484.874 231.9940 1472.320  273.6950
## ORI_14605_14585 249.490 494.073 596.204  639.328 233.5130 1160.330  283.0970
## ORI_14607_14586 262.473 581.059 701.524  675.186 193.2520 3355.330 2300.8800
## ORI_14609_14587 296.761 502.258 513.538  439.398 342.3490 1623.050  558.0220
## ORI_14617_14591 359.792 687.576 600.142  640.231 181.5090  625.429  127.0440
## ORI_14623_14594 236.179 523.152 543.925 1521.610 184.5280  590.618  156.4500
## ORI_14629_14597 257.877 491.623 417.945  353.230 200.6470 1027.960  905.1000
## ORI_14631_14598 326.633 628.989 609.143  407.332 189.8880 1509.590  585.3110
## ORI_14633_14599 261.045 545.825 628.256 1175.360 248.1420  790.596  231.4610
## ORI_14635_14600 234.713 671.833 661.203  869.796 326.8820  647.636  214.3790
```

```
## ORI_14639_14602 216.029 371.809 557.959  687.087 214.4690 1723.360  190.2240
##                  [,3660]   [,3661]   [,3662]  [,3663]  [,3664]  [,3665] [,3666]
## ORI_10219_10218  547.056  151.0810  267.5760  597.126  139.814  93.8157 172.348
## ORI_10735_10730  512.373  813.8090  541.6160 1480.570 1376.590 273.4770 517.906
## ORI_14605_14585  549.588  421.0080  440.5720 1466.250  908.564 344.7780 546.356
## ORI_14607_14586  581.282  958.9220  602.6200  896.159 2992.740 379.9390 351.355
## ORI_14609_14587  754.253  830.0590  533.0020 1522.560 1390.150 355.2330 582.876
## ORI_14617_14591  231.298   61.5412   91.8587  489.806  133.828 103.9640 224.605
## ORI_14623_14594  327.188  119.5060  276.9480  853.890  132.765 109.1730 274.998
## ORI_14629_14597  979.562  276.2960  328.0160  412.381  381.243 190.8960 180.379
## ORI_14631_14598  657.179  575.5870  690.3760  365.268 1627.420 241.8020 328.929
## ORI_14633_14599  260.503  135.4010  268.9710  393.592  430.721 222.2290 255.408
## ORI_14635_14600  355.452  268.0270  332.6820  429.977  325.873  80.7325 381.102
## ORI_14639_14602  426.855  251.5230  344.0900  177.976  282.992 109.1510 150.091
##                   [,3667]  [,3668]  [,3669] [,3670]  [,3671]  [,3672]  [,3673]
## ORI_10219_10218  406.3650 162.2200 215.8660 506.210 1389.960 3610.890 411.6640
## ORI_10735_10730  165.2890  98.6767 178.0550 237.640 1490.510 3093.290 118.7820
## ORI_14605_14585 1176.4000 313.5140 867.1020 518.453 2973.280 4634.440 253.4110
## ORI_14607_14586  277.6260 153.7320 399.2090 357.291 3972.460 5596.150 114.8000
## ORI_14609_14587  602.0130 191.3580 488.9540 383.899 2602.700 4994.150 176.6010
## ORI_14617_14591  530.8210 148.1370 379.9460 399.167  610.542 1836.310 146.3670
## ORI_14623_14594  277.3280 139.3940 354.6240 309.671 1436.340 3333.630 243.5840
## ORI_14629_14597  214.6520 223.7410 218.5740 348.141 1262.740 2983.510 288.4940
## ORI_14631_14598   89.4411 126.8420 280.7620 265.294 1594.230 3273.700 199.7330
## ORI_14633_14599  178.3540 221.3930 202.0130 326.162  791.811 2728.280 276.6630
## ORI_14635_14600  314.7830 212.7690 320.9020 309.006  670.037 2124.890 292.6680
## ORI_14639_14602   42.5626 131.5200 145.5090 249.340  606.677 2301.720 177.2780
##                 [,3674]  [,3675]  [,3676]  [,3677] [,3678] [,3679] [,3680]
## ORI_10219_10218 282.473  70.6701 1179.090  789.056 293.404 258.999 569.647
## ORI_10735_10730 268.705 237.7280  848.174 1251.970 506.915 367.617 500.928
## ORI_14605_14585 397.356  96.4786 1369.980  967.020 462.557 272.075 482.741
## ORI_14607_14586 401.965 208.5260 1734.170 1817.930 251.243 304.335 594.329
## ORI_14609_14587 284.387 179.2570 1460.630 1233.480 786.941 301.159 676.568
## ORI_14617_14591 402.160  61.9096  853.900  715.595 343.125 235.142 806.452
## ORI_14623_14594 535.959 119.8070  900.513  692.771 386.718 330.696 469.081
## ORI_14629_14597 555.201 113.5750  732.289  980.568 419.473 272.719 612.648
## ORI_14631_14598 395.753 247.7890 1208.910 1350.180 634.870 403.288 516.569
## ORI_14633_14599 582.585 149.0840 1310.160  920.872 486.375 314.777 547.674
## ORI_14635_14600 767.670 170.8920  903.465  877.595 553.664 260.914 769.737
## ORI_14639_14602 622.859 115.2660  523.367 1190.380 247.674 303.538 956.807
##                 [,3681]   [,3682]   [,3683] [,3684] [,3685]   [,3686]  [,3687]
## ORI_10219_10218 155.667  698.7980  186.3780 535.738 227.433  103.6260  350.254
## ORI_10735_10730 121.347  213.4390  123.3010 384.201 519.266 3352.5500 3755.290
## ORI_14605_14585 243.594  313.4830  364.2720 428.702 348.753  819.5630  284.861
## ORI_14607_14586 524.609  595.9600  577.3040 431.374 552.463 1571.0600 1520.050
## ORI_14609_14587 183.544  734.4930  187.0840 233.492 534.913 1555.1200  988.742
## ORI_14617_14591 184.516  435.1090  459.7150 583.290 197.583  117.4460  256.118
## ORI_14623_14594 213.753 1324.1700  275.7520 496.937 242.744  110.3000  267.038
## ORI_14629_14597 160.049 2246.7300  125.2080 360.232 524.138 2346.7300 1326.910
## ORI_14631_14598 230.613  427.7930  319.0910 288.176 501.728 1562.6900 5041.780
## ORI_14633_14599 218.652  566.8590  125.7590 404.791 472.182  269.7910  661.874
## ORI_14635_14600 177.722  989.6740  214.3750 501.783 460.686  116.3280  230.196
## ORI_14639_14602 178.555  398.6980  506.7210 444.127 281.631 2404.6900  623.389
##                   [,3688]   [,3689]   [,3690]  [,3691] [,3692]   [,3693]
```

```
## ORI_10219_10218   91.5958   90.3695  301.1930 1653.590 879.226   24.6827
## ORI_10735_10730  720.9140  683.1920  231.3190 4154.290 689.245   77.7707
## ORI_14605_14585  405.8600  398.5840  172.9990 3711.810 594.427  556.8840
## ORI_14607_14586 2029.3200  595.0350 1921.2300 4601.020 458.950 7229.0900
## ORI_14609_14587  235.8140  623.4220  311.3280 4127.900 431.368  179.9300
## ORI_14617_14591   64.4400   98.7246  223.5390 1454.870 405.168  110.2000
## ORI_14623_14594  100.1350  133.3540  225.4740 1441.370 788.289   24.6827
## ORI_14629_14597  121.9130  415.2050  113.5600 4166.580 675.976   24.6827
## ORI_14631_14598  519.0330  393.8210  520.9680 4419.270 547.441   79.4774
## ORI_14633_14599  176.4810  248.0840  124.4660 3289.540 705.734 3677.0300
## ORI_14635_14600   88.7783  179.0540  107.2750 1269.410 686.087   24.6827
## ORI_14639_14602  343.8830  279.3930  191.6590 2095.710 666.256   24.6827
##                 [,3694] [,3695]   [,3696]   [,3697]  [,3698]  [,3699]   [,3700]
## ORI_10219_10218 486.868 706.044   24.6827  128.1280  86.2963 191.1800  227.9000
## ORI_10735_10730 272.427 676.323   30.0860  112.1750  87.9700  97.7215  296.1250
## ORI_14605_14585 339.218 767.011   67.6735  494.3410 140.6410 142.9630  151.4170
## ORI_14607_14586 270.556 707.015  562.7460 8347.4700 449.1160 106.7040  108.2720
## ORI_14609_14587 394.852 535.517   27.6820  461.7370 103.8070 236.2840  387.8850
## ORI_14617_14591 256.547 413.451   48.1256  403.0740  67.6876  80.2397  151.7450
## ORI_14623_14594 467.331 741.118   24.6827  109.4090 137.4830 124.9780   95.7191
## ORI_14629_14597 481.458 742.271   24.6827  110.6190 132.3490 131.8410  662.4760
## ORI_14631_14598 340.888 697.641   24.6827  391.4320 101.3730 110.7160  362.8810
## ORI_14633_14599 429.096 747.243  303.6520 4818.2900 338.7000 170.8920  158.8370
## ORI_14635_14600 458.946 703.878   24.6827   59.8481 136.8290 173.6870   81.4279
## ORI_14639_14602 308.286 603.087   24.6827   56.5960 113.4220 133.6200  211.7060
##                  [,3701]  [,3702]  [,3703] [,3704]  [,3705]  [,3706] [,3707]
## ORI_10219_10218 2014.460 378.5510 130.6130 466.943  715.714  525.671 433.923
## ORI_10735_10730 1427.160 503.5770  86.7755 491.038  891.889  709.111 492.501
## ORI_14605_14585 1614.800 170.7290 254.3250 293.744  633.133  819.847 421.392
## ORI_14607_14586 1410.770 323.2050 204.0160 420.646  608.722  822.956 417.499
## ORI_14609_14587 2517.540 108.6180 151.0990 337.505  591.234  956.893 574.200
## ORI_14617_14591 1978.140 295.4970  45.4284 566.606  630.426  824.286 537.825
## ORI_14623_14594 1538.240 251.1990  64.9222 402.309  477.436  537.992 375.134
## ORI_14629_14597 1317.280 120.7680  79.8656 426.558  533.938  445.805 566.942
## ORI_14631_14598 1581.930 339.3570 110.0830 341.911  452.299  737.198 505.951
## ORI_14633_14599 1128.340 272.3050  81.7173 431.374  630.690  721.528 533.855
## ORI_14635_14600 1125.680 237.6960  59.5614 445.460  708.707  746.099 682.477
## ORI_14639_14602 1122.350 210.5350  59.8776 478.149  681.190  625.271 503.968
##                 [,3708] [,3709]  [,3710]  [,3711] [,3712]  [,3713]   [,3714]
## ORI_10219_10218 201.680 530.078 150.6970 138.4380 492.048 300.5940  556.9910
## ORI_10735_10730 374.989 508.112 215.5360 311.0580 388.729 240.8400  516.1770
## ORI_14605_14585 416.226 534.544 237.5220 252.6880 418.026 253.7330  501.2000
## ORI_14607_14586 479.631 553.222 870.2730 468.7760 292.460 142.3480  843.2240
## ORI_14609_14587 581.376 357.254 491.8450 320.0530 251.420 366.2520 1065.7000
## ORI_14617_14591 294.584 367.044 101.0350 104.4030 239.254 112.5410  274.5220
## ORI_14623_14594 242.741 574.976  93.9432 195.5840 446.248 106.2600  231.1510
## ORI_14629_14597 464.712 521.400 114.5020 201.1300 373.542 325.0970  289.3000
## ORI_14631_14598 541.267 526.686 309.9830 316.4640 308.080 388.6750  711.9310
## ORI_14633_14599 484.080 475.961 214.0250 208.2180 417.028 308.0030  306.7490
## ORI_14635_14600 265.439 442.274 204.5260 275.0920 553.915 156.2920  246.5710
## ORI_14639_14602 248.728 512.793 117.0550 219.2800 383.177 166.9780  162.0560
##                   [,3715] [,3716]   [,3717]  [,3718] [,3719]  [,3720]   [,3721]
## ORI_10219_10218   31.3513 234.011  347.1360 294.3480 483.696 160.9830  178.6770
## ORI_10735_10730  775.5550 185.162  609.0860 233.3470 353.315 141.6010  277.4990
```

```
## ORI_14605_14585  290.6370 279.216  337.2110 222.9080 314.055 162.5110  288.9400
## ORI_14607_14586   41.9649 358.483  891.6660 148.2490 787.720  44.2157  964.4920
## ORI_14609_14587  547.2970 273.642  708.1140 296.9190 225.160  97.5884  535.1130
## ORI_14617_14591   32.7205 181.116  171.3380 247.1360 221.428  63.7124   96.2304
## ORI_14623_14594   24.6827 251.455  229.4800 207.2960 451.937  51.2410  235.5640
## ORI_14629_14597   24.6827 273.245  282.9290 273.8910 401.953 135.2080  102.2550
## ORI_14631_14598  418.8330 223.779  483.2440  99.8566 351.971 147.9190  588.4920
## ORI_14633_14599   24.6827 293.469  577.8120 330.0730 387.205  24.6827  116.0590
## ORI_14635_14600   24.6827 303.524  220.8580 130.8860 336.230  85.5325  130.7600
## ORI_14639_14602   24.6827 214.544  303.3930 378.7110 364.045 123.5680  141.7000
##                  [,3722]   [,3723]  [,3724] [,3725]  [,3726] [,3727] [,3728]
## ORI_10219_10218 294.2330   47.3907 190.6840 287.869  99.5181 197.518 480.771
## ORI_10735_10730  69.4402  929.8260  90.9294 423.496  95.0904 187.611 492.662
## ORI_14605_14585  24.6827   46.0621 218.9150 647.195  96.4660 175.672 655.205
## ORI_14607_14586 928.2290  167.6000 112.8500 499.916 261.5720 274.951 647.314
## ORI_14609_14587 249.7440  299.5120 119.3960 498.452 138.9710 170.758 341.162
## ORI_14617_14591  24.6827   24.6827 240.4770 279.247  44.4422 123.926 341.057
## ORI_14623_14594  24.6827   24.6827 149.0070 300.354 101.2170 151.042 684.625
## ORI_14629_14597  24.6827  640.0380  59.1937 427.882  92.2691 195.442 707.575
## ORI_14631_14598 434.6280  614.1950  62.3701 615.146 189.0550 172.175 485.149
## ORI_14633_14599  24.6827   27.8457 124.9310 390.689  96.5044 150.737 537.617
## ORI_14635_14600  24.6827   24.6827 179.9650 340.384 118.1110 169.463 609.546
## ORI_14639_14602  24.6827  198.4330 139.6680 308.038 113.8570 181.125 552.515
##                 [,3729]   [,3730]  [,3731] [,3732]   [,3733]   [,3734] [,3735]
## ORI_10219_10218 220.151   74.7375 198.2790 827.710   39.7038  318.5240 532.486
## ORI_10735_10730 251.170  254.8140 179.1200 268.028   62.2528 1152.5800 500.633
## ORI_14605_14585 318.405   63.7277 222.5070 252.665   24.6827   91.1899 560.200
## ORI_14607_14586 817.119  428.8340 289.5100 363.084  748.0470 2933.7700 588.211
## ORI_14609_14587 392.273  230.6490 301.0990 550.288  191.9660 1148.1800 455.306
## ORI_14617_14591 187.746   35.5091 135.9810 201.305   24.6827   62.0488 439.776
## ORI_14623_14594 186.015   63.0990 221.9240 349.041   24.6827  170.6890 471.603
## ORI_14629_14597 193.258   67.6021 239.3030 504.554   24.6827  241.3050 635.551
## ORI_14631_14598 389.387  329.1410 289.9160 763.638  324.8710 2043.1500 539.534
## ORI_14633_14599 294.640  149.4180 167.5750 178.439   24.6827   24.6827 618.291
## ORI_14635_14600 173.151   71.3545 179.7870 186.270   24.6827   38.7571 656.478
## ORI_14639_14602 177.796   58.4435 168.7660 167.059   24.6827  112.5040 779.603
##                  [,3736] [,3737]  [,3738] [,3739] [,3740] [,3741] [,3742]
## ORI_10219_10218  409.436 334.001  689.986 194.912 279.147 362.555 633.750
## ORI_10735_10730 1103.680 661.739 1243.410 183.089 251.038 364.573 606.931
## ORI_14605_14585  622.281 493.675  780.291 284.421 325.207 445.712 499.000
## ORI_14607_14586  615.307 412.076 1465.380 185.049 628.355 299.249 512.519
## ORI_14609_14587  622.772 700.833 1007.850 255.021 331.008 324.766 581.307
## ORI_14617_14591  627.582 648.873  536.328 296.511 202.379 303.330 601.077
## ORI_14623_14594  717.807 454.710  427.558 245.726 289.898 274.012 402.338
## ORI_14629_14597  501.636 533.972  953.415 168.577 282.639 340.881 659.004
## ORI_14631_14598  624.251 528.644  909.223 227.858 325.765 329.139 786.267
## ORI_14633_14599  976.046 652.833  804.378 319.994 263.478 451.161 541.296
## ORI_14635_14600  965.557 650.972  438.165 228.182 354.240 310.123 535.250
## ORI_14639_14602 1058.140 766.558  842.915 237.925 335.847 500.966 659.679
##                   [,3743]  [,3744] [,3745]  [,3746]  [,3747] [,3748] [,3749]
## ORI_10219_10218  123.5100  24.6827 377.505  785.787 146.5720 340.232 294.029
## ORI_10735_10730  616.9480 421.1210 569.462  755.590 175.3180 481.415 513.430
## ORI_14605_14585  182.2120 160.0650 470.935  649.291  62.9828 474.072 300.323
## ORI_14607_14586  283.0180  58.9638 559.084  736.105 185.7030 323.351 801.746
```

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## ORI_14609_14587  233.1630 143.7390 448.680 1377.990 191.9150 529.957 437.593
## ORI_14617_14591   78.8546  51.5806 528.125  869.047  84.0738 402.105 375.354
## ORI_14623_14594   75.8478 242.2060 522.402  672.363  70.9986 240.230 272.402
## ORI_14629_14597 1277.4800 496.3450 569.952  772.692 209.0790 381.119 273.691
## ORI_14631_14598  176.8390  56.5065 739.838 1119.900 224.8540 461.041 503.699
## ORI_14633_14599  145.1370 379.0680 647.070  813.675  77.2890 577.335 259.292
## ORI_14635_14600  144.1030 166.1960 573.526  730.274  53.9394 359.015 260.426
## ORI_14639_14602  848.2900 181.3110 687.087  388.478  74.3014 498.137 244.568
##                  [,3750]   [,3751] [,3752] [,3753]  [,3754]  [,3755]  [,3756]
## ORI_10219_10218  752.536 1276.9100 287.681 321.427  550.065 140.5310  852.057
## ORI_10735_10730 1778.430  143.5760 385.718 316.642  653.793 642.3370  504.690
## ORI_14605_14585 1174.570  504.0280 302.457 431.778  600.096 192.9070 1113.220
## ORI_14607_14586 1354.510  498.7030 420.877 269.452  643.871 297.5470  528.126
## ORI_14609_14587 1106.430  185.2130 442.836 559.190  453.619 475.2480  709.266
## ORI_14617_14591 1229.090 1326.7500 434.506 374.015  442.163 235.9060 1104.470
## ORI_14623_14594 1362.740  629.9490 442.487 320.019  889.823 143.3220  899.139
## ORI_14629_14597 1342.500   94.2162 250.986 336.784  636.959 187.3130  453.392
## ORI_14631_14598 1089.600  101.7500 376.098 431.819  542.005 815.3520  687.653
## ORI_14633_14599 1889.070  381.0050 404.813 286.387  701.125 121.3450 1020.940
## ORI_14635_14600 2310.270  846.2550 420.092 359.895  769.709  77.6281  750.481
## ORI_14639_14602 1431.970  584.6280 417.041 757.173  468.375  91.1543  864.647
##                 [,3757] [,3758]  [,3759] [,3760]   [,3761]  [,3762] [,3763]
## ORI_10219_10218 295.635 725.218  492.563 269.269 1539.0200  459.925 343.669
## ORI_10735_10730 204.445 365.928  450.765 531.963  436.7100  804.950 313.866
## ORI_14605_14585 161.717 435.348  654.418 402.220  271.9550  692.191 160.093
## ORI_14607_14586 210.819 571.827  595.916 353.710  688.3820  796.335 249.173
## ORI_14609_14587 331.785 328.340 1001.950 592.562  409.8940  937.964 267.736
## ORI_14617_14591 369.049 793.478  350.937 544.990 1688.1000  646.005 222.370
## ORI_14623_14594 195.707 494.148  285.964 462.254  562.1000  759.552 309.101
## ORI_14629_14597 208.041 427.670  257.456 532.719 1131.9000  695.130 259.627
## ORI_14631_14598 194.344 307.897  494.783 481.505  257.2050  760.120 174.038
## ORI_14633_14599 220.231 529.981  578.065 350.798  374.1680 1427.920 396.518
## ORI_14635_14600 172.485 434.220  451.716 516.761  645.2600  719.011 241.510
## ORI_14639_14602 119.622 402.562  167.075 608.656 2068.4700  413.295 264.056
##                 [,3764]  [,3765]   [,3766] [,3767] [,3768]  [,3769]  [,3770]
## ORI_10219_10218 168.495  24.6827   60.8680 482.208 802.983  520.924  565.642
## ORI_10735_10730 301.749  24.6827  246.1180 304.315 375.608  806.857 1101.640
## ORI_14605_14585 141.447  24.6827  893.0620 411.476 785.790  542.097  985.944
## ORI_14607_14586 243.311  24.6827  142.3330 469.222 391.139  616.751  798.130
## ORI_14609_14587 290.678  24.6827  363.9250 533.517 421.778  900.055 1404.830
## ORI_14617_14591 159.727 100.7390   67.9149 557.083 452.967  679.190  978.237
## ORI_14623_14594 156.390  24.6827  281.1930 672.025 379.187  483.250  882.981
## ORI_14629_14597 293.208  24.6827   64.8406 414.230 431.004  797.813 1130.950
## ORI_14631_14598 249.361 226.3840  183.2740 515.185 317.883  883.111 1074.430
## ORI_14633_14599 284.923 278.0360   51.1197 408.361 515.031 1038.040 1308.640
## ORI_14635_14600 216.436  24.6827  258.9200 590.364 449.285  669.645 1035.860
## ORI_14639_14602 213.025  24.6827   56.6110 400.029 340.317  821.618  843.020
##                 [,3771]   [,3772]   [,3773] [,3774]  [,3775] [,3776] [,3777]
## ORI_10219_10218 450.054  260.2630  114.3420 249.888  763.140 414.239 128.810
## ORI_10735_10730 444.492  711.9130  667.2220 540.002 2114.100 494.952 408.861
## ORI_14605_14585 368.440  480.4160  411.8230 251.996 1461.280 506.526 160.394
## ORI_14607_14586 313.059 1044.0300  671.4930 381.427 1676.490 450.025 556.072
## ORI_14609_14587 471.334 1011.2200  436.9500 346.567 2256.600 674.049 497.087
## ORI_14617_14591 534.644  247.4350  128.8410 281.010  837.860 373.794  97.931
```

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## ORI_14623_14594 457.701  200.9230  143.9080 223.758 1238.620 336.463 133.215
## ORI_14629_14597 387.605  789.3370  243.0390 408.729 1487.640 267.774 207.652
## ORI_14631_14598 296.742  751.6310  266.1740 258.192 2430.900 370.491 331.427
## ORI_14633_14599 497.228  277.4710  317.0750 510.001 1742.660 483.941 193.639
## ORI_14635_14600 435.230  197.9210  444.1370 305.192 1622.550 488.936 136.757
## ORI_14639_14602 477.350  375.3520  124.3780 330.196 1087.910 532.906 190.199
##                 [,3778] [,3779] [,3780]  [,3781]  [,3782]  [,3783]  [,3784]
## ORI_10219_10218 295.238 384.032 411.084 144.1740 163.4440 1664.260 1384.800
## ORI_10735_10730 412.625 247.467 431.269 426.8740 127.1080 1984.190  896.647
## ORI_14605_14585 338.886 311.343 377.329 566.1700  37.2319 1168.660 1086.760
## ORI_14607_14586 437.487 265.336 472.955 334.1330 107.3850 1756.790 1240.170
## ORI_14609_14587 457.292 298.309 505.695 470.4110 136.9200 2742.790 1338.640
## ORI_14617_14591 190.412 274.337 213.120 149.4420 111.7400 1746.920 1404.760
## ORI_14623_14594 123.983 270.919 258.498 206.7600  54.8712 1436.670 1086.520
## ORI_14629_14597 256.396 217.056 312.290 320.2530 160.1600 2785.200 1018.270
## ORI_14631_14598 258.549 233.162 375.806 335.9280  62.4287 2041.050 1325.280
## ORI_14633_14599 275.777 220.815 232.724 206.1680 106.9310 1513.310 1018.640
## ORI_14635_14600 214.193 266.914 258.719 222.3040  77.1789 1665.480  938.874
## ORI_14639_14602 220.091 197.150 192.417 123.0910 221.8440 1371.910  863.974
##                  [,3785]   [,3786]  [,3787] [,3788] [,3789] [,3790]  [,3791]
## ORI_10219_10218  520.304  143.4930 169.3480 329.487 243.741 380.663  80.1106
## ORI_10735_10730 1168.910   24.6827 330.0790 216.671 174.222 299.358 176.0160
## ORI_14605_14585 1233.860  727.4260 267.5950 307.971 288.207 526.435 108.7520
## ORI_14607_14586 1272.330 1777.8900 240.0710 340.697 210.705 343.728 101.9920
## ORI_14609_14587 1171.730  246.4720 167.9260 210.351 162.197 362.120 103.6830
## ORI_14617_14591  881.989  154.5240 141.3540 185.648 149.970 267.086  71.3172
## ORI_14623_14594  810.930  141.5550 179.0900 324.380 363.721 643.071  79.6808
## ORI_14629_14597  688.095   24.6827 274.9080 361.654 274.907 679.029 266.5960
## ORI_14631_14598  481.738  353.2530 267.6940 361.868 217.127 316.375 183.0370
## ORI_14633_14599  701.524   42.7035 196.2020 304.378 229.801 535.284  92.3467
## ORI_14635_14600  786.638   26.8684 172.2110 273.610 287.204 562.856  67.7218
## ORI_14639_14602  469.081   74.0857 478.6160 305.792 293.167 280.962 180.1990
##                  [,3792]  [,3793]  [,3794]  [,3795]  [,3796]  [,3797]  [,3798]
## ORI_10219_10218  29.6274  329.480  462.578  638.422  549.837 142.1480  886.856
## ORI_10735_10730 114.4840  560.657 1097.520 1595.100  779.313 293.9670 1325.250
## ORI_14605_14585  28.0801  392.703  874.132  983.450  803.982 234.3530 1153.960
## ORI_14607_14586 145.0260  664.199  932.861  769.009  605.037 761.3320 1127.630
## ORI_14609_14587 142.6460  373.026 1283.610 1506.280  655.895 477.7620 1513.050
## ORI_14617_14591  24.6827  211.126  736.366  689.329  656.018  58.5527  770.464
## ORI_14623_14594  24.6827  332.669  568.253  640.105  512.658  70.9666  792.983
## ORI_14629_14597  24.6827  445.059  619.955 2476.040  404.765  71.3066 2679.460
## ORI_14631_14598  77.0352  618.199  940.807 1671.470  818.601 328.6050 2068.000
## ORI_14633_14599  38.8853  368.126  466.078  327.385  599.021 146.4320 1736.890
## ORI_14635_14600  24.9293  327.436  322.227  462.219  498.548 115.2540  975.484
## ORI_14639_14602  35.3610  444.689  364.659  744.109  367.657  24.6827 1175.370
##                 [,3799]  [,3800] [,3801] [,3802]  [,3803] [,3804]   [,3805]
## ORI_10219_10218 438.783  924.274 503.530 314.666  527.822 149.562  301.7670
## ORI_10735_10730 207.008 1552.510 397.005 275.116 1347.890 326.897  442.3240
## ORI_14605_14585 440.436 1266.170 369.499 513.966 1684.630 219.138  569.9960
## ORI_14607_14586 643.119 2547.270 470.369 291.711 2644.470 213.713  465.6300
## ORI_14609_14587 416.147 1710.370 312.250 188.253 1757.730 358.239  724.0020
## ORI_14617_14591 267.604  839.567 460.176 243.520  434.043 154.445   51.9833
## ORI_14623_14594 198.458 1018.750 188.007 420.451  464.181 186.018  111.0420
## ORI_14629_14597 312.260 1495.500 330.584 535.403  556.387 223.504  267.5560
```

```
## ORI_14631_14598 331.652 2015.580 433.461 243.744 1327.310 319.682  441.5280
## ORI_14633_14599 306.207 1010.700 408.097 367.560  934.864 258.997  287.9540
## ORI_14635_14600 323.949 1145.890 292.840 297.529  559.797 205.537   84.7019
## ORI_14639_14602 174.426 1573.040 276.414 369.887  317.283 183.040  146.8870
##                  [,3806]   [,3807]  [,3808]  [,3809]  [,3810]  [,3811]  [,3812]
## ORI_10219_10218  503.897  116.5770  325.762 130.8410 163.1100  87.1741 159.6980
## ORI_10735_10730  780.720  322.1240  268.402 168.4390  70.7185  53.6705 224.4590
## ORI_14605_14585  744.675  222.8600  474.684 155.4700 175.5590 126.1610 261.4100
## ORI_14607_14586  624.452  339.2770  274.990  53.8679 342.5040 200.7130 289.1220
## ORI_14609_14587  686.476  436.3430  226.590 338.7440 152.9180 106.5870 251.3890
## ORI_14617_14591  582.104  129.9350  270.017 152.9890  88.0751  58.7289 155.1300
## ORI_14623_14594  678.533   54.0564  816.077 194.2030 222.8990 126.7180 218.0700
## ORI_14629_14597  679.922  685.5400  377.072 150.5440 147.9310  78.8741 189.3050
## ORI_14631_14598 1060.010  419.7210  340.808 196.8120 305.6490 138.7640 227.7790
## ORI_14633_14599  607.444   68.5898  529.964 169.4090 123.5700  96.6134 141.7580
## ORI_14635_14600  865.805   52.7148  883.537 128.8980 149.8700  85.2336 149.7610
## ORI_14639_14602  936.240  537.7490  570.757 161.3030 159.0600  96.5818 269.7890
##                 [,3813]  [,3814] [,3815]  [,3816]  [,3817]  [,3818]  [,3819]
## ORI_10219_10218 136.691  855.865 3437.94 2237.530  329.731 213.1330 1463.280
## ORI_10735_10730 253.774  631.589 2454.21 1960.900  378.248  27.8408  775.727
## ORI_14605_14585 203.272  572.223 3758.78 2552.840  470.332  31.4565 1843.350
## ORI_14607_14586 287.862  588.623 3694.22 2296.520  636.021 111.1700 1227.580
## ORI_14609_14587 276.187  620.657 3755.09 2375.100  674.217  41.2463 2101.250
## ORI_14617_14591 164.196  772.742 3040.18 2730.930  503.305 252.8810  903.429
## ORI_14623_14594 161.820  690.772 2740.53 2388.090  564.353 112.5130  980.756
## ORI_14629_14597 272.388  413.239 2913.61 1005.090  531.513  81.5020 1734.860
## ORI_14631_14598 263.425  859.532 3462.59 2551.800  868.513  59.5793 1637.450
## ORI_14633_14599 253.799  892.597 3100.55 3602.100  580.635  48.2930 1616.910
## ORI_14635_14600 208.231  558.179 2637.56 1759.430 1150.230  65.2680  700.333
## ORI_14639_14602 243.240  471.153 2068.55 1554.310  305.465  68.9635  336.334
##                 [,3820]   [,3821]  [,3822] [,3823] [,3824] [,3825] [,3826]
## ORI_10219_10218 230.428 1061.0900 189.7780 494.485 385.172 185.236 256.951
## ORI_10735_10730 257.365  183.8830 292.7550 459.311 285.149 196.700 514.957
## ORI_14605_14585 234.950   90.2636 285.3000 720.151 362.800 216.212 339.202
## ORI_14607_14586 262.529  424.1350 195.8700 927.464 513.579 156.155 398.442
## ORI_14609_14587 299.915  431.6160 435.7380 865.243 524.545 356.480 471.608
## ORI_14617_14591 160.860 1046.1300 252.0650 781.208 415.782 174.536 244.473
## ORI_14623_14594 245.970  226.6160 312.5430 815.250 283.977 177.427 303.958
## ORI_14629_14597 179.522  306.7420 365.1410 519.654 318.999 304.754 174.433
## ORI_14631_14598 305.034  231.4460 264.7260 651.378 333.858 280.927 398.035
## ORI_14633_14599 191.381  147.4310 345.7740 695.238 324.425 211.218 399.226
## ORI_14635_14600 239.427  285.0150 389.1720 732.370 366.120 234.146 367.747
## ORI_14639_14602 155.390  142.5140  69.8276 496.239 268.237 189.275 232.859
##                  [,3827] [,3828]  [,3829] [,3830]  [,3831]  [,3832]  [,3833]
## ORI_10219_10218  188.076 406.126 1041.940 343.962  209.978 1634.970  803.625
## ORI_10735_10730  825.295 288.261 1313.680 253.912  561.921 1348.590  459.201
## ORI_14605_14585  384.755 385.274 1410.610 323.453  394.035 1788.390  571.578
## ORI_14607_14586  551.892 379.097 1627.720 317.093 1002.230 1343.080  729.810
## ORI_14609_14587  675.678 289.516 1590.320 239.325  847.661 1228.680  914.517
## ORI_14617_14591  483.203 291.395 1480.510 246.742  257.630  949.405  434.567
## ORI_14623_14594  523.466 433.652 1328.980 340.154  260.347  719.296 1430.080
## ORI_14629_14597 1756.150 296.469 1019.050 357.447  699.252  443.817 1067.720
## ORI_14631_14598  727.707 437.326 1369.600 296.803  471.881 1319.290  837.009
## ORI_14633_14599  548.673 416.764 1936.460 417.359  487.723 1262.970  454.209
```

```
## ORI_14635_14600  609.858 347.096 1302.910 416.758  312.694  960.290  762.677
## ORI_14639_14602  882.669 373.614  735.525 377.557  284.428  942.658  366.398
##                 [,3834] [,3835]  [,3836] [,3837]  [,3838] [,3839]  [,3840]
## ORI_10219_10218 280.922 426.607 398.2270 364.440  626.662 281.604  594.159
## ORI_10735_10730 336.928 449.975 443.6460 494.128  809.469 607.099  792.292
## ORI_14605_14585 248.664 482.429  24.6827 321.001  803.923 466.613  637.124
## ORI_14607_14586 334.893 484.075 442.7920 345.633  698.859 467.072  668.842
## ORI_14609_14587 349.105 352.814 558.2920 382.388  882.554 671.532  636.616
## ORI_14617_14591 455.323 394.103 500.9330 443.985 1084.130 345.558  562.044
## ORI_14623_14594 382.156 411.614  24.6827 423.919  758.445 356.065  408.721
## ORI_14629_14597 386.640 686.493  24.6827 206.087 1078.470 568.611  372.873
## ORI_14631_14598 380.027 508.949  24.6827 303.191  616.753 586.831  694.128
## ORI_14633_14599 524.603 421.198 989.6840 377.738  820.283 495.029  964.579
## ORI_14635_14600 516.505 345.243  24.6827 568.246  686.490 499.122  448.791
## ORI_14639_14602 387.406 399.982 418.7820 441.717  958.807 362.945  582.410
##                 [,3841]  [,3842]  [,3843] [,3844] [,3845] [,3846] [,3847]
## ORI_10219_10218 410.090  314.451  651.846 211.454 419.110 226.754 1423.55
## ORI_10735_10730 522.675  805.842  832.031 398.659 672.234 371.394 2026.72
## ORI_14605_14585 428.806  481.233  848.667 313.384 403.905 300.293 1675.52
## ORI_14607_14586 645.287  505.271  689.386 417.575 364.359 264.367 2003.83
## ORI_14609_14587 636.498 1038.110 1058.500 370.111 662.994 411.645 1886.08
## ORI_14617_14591 646.285  687.894 1148.910 629.571 567.220 266.202 1499.41
## ORI_14623_14594 365.194  568.916  880.189 409.917 513.920 234.846 1587.11
## ORI_14629_14597 471.803  747.515 1283.440 509.238 402.646 289.390 1943.21
## ORI_14631_14598 613.219  694.729  932.087 278.320 431.805 237.844 2055.81
## ORI_14633_14599 592.048  716.831  964.762 475.620 607.991 165.622 1587.75
## ORI_14635_14600 451.688  756.754  963.581 591.191 771.396 216.594 1650.91
## ORI_14639_14602 358.259  869.106  786.460 750.088 471.846 177.440 1720.99
##                  [,3848]  [,3849]  [,3850] [,3851]  [,3852]  [,3853] [,3854]
## ORI_10219_10218  388.736 1676.940 1460.770 412.033 142.7770 1765.390 6553.89
## ORI_10735_10730  945.428 1878.630 1186.110 489.588 140.6440 1701.980 7517.81
## ORI_14605_14585  583.076 1640.320  931.370 282.202  65.2150 2082.450 6926.43
## ORI_14607_14586  631.652 2388.070 2266.570 203.153 208.5090 2241.660 7022.83
## ORI_14609_14587  793.898 2006.910 1845.420 246.414 104.6780 2120.270 7389.94
## ORI_14617_14591  519.167 1291.450  749.974 226.373  63.2695 1995.330 7441.10
## ORI_14623_14594  526.664  894.664  716.433 200.049  44.5794 1414.070 5754.54
## ORI_14629_14597  642.470 1801.580  923.357 171.681 109.7700 1060.440 6689.24
## ORI_14631_14598  832.956 2230.620 1229.330 133.931 108.1920 2206.240 6473.19
## ORI_14633_14599  827.175 1173.990 1004.170 252.463 116.5520 1480.340 7745.90
## ORI_14635_14600  571.182 1084.500 1180.610 187.355  55.1498 1658.960 5009.75
## ORI_14639_14602  506.529 1065.150 1294.230 466.453  61.2641 1220.630 6038.31
##                  [,3855]  [,3856]  [,3857]  [,3858] [,3859] [,3860]  [,3861]
## ORI_10219_10218  783.911 260.3540  348.612 1275.300 335.543 409.321  299.518
## ORI_10735_10730  667.467 268.9600 1078.750 1405.980 313.268 286.468  599.890
## ORI_14605_14585  789.582 310.2010 1346.300 1432.170 312.090 403.951  424.638
## ORI_14607_14586  596.428 282.7090  536.534 1299.110 450.725 354.842  360.656
## ORI_14609_14587  897.788 344.7290  876.238 1905.320 526.796 380.290  627.743
## ORI_14617_14591  865.368 362.0420 1574.360 1538.820 547.356 611.406  362.037
## ORI_14623_14594  592.006 317.1280 1363.850 1224.550 306.234 469.181  393.878
## ORI_14629_14597  576.618 275.6470  108.757 1034.150 251.143 286.220  758.160
## ORI_14631_14598  677.950 461.6600  596.648 2101.890 539.763 467.798  645.244
## ORI_14633_14599  776.018 361.6190 1650.950 1626.020 307.337 345.289  544.309
## ORI_14635_14600  883.185 258.7270  980.049 2339.500 286.738 471.699  607.177
## ORI_14639_14602  807.067 362.4020  200.003 1440.260 454.558 440.556  615.505
```

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##                  [,3862] [,3863]  [,3864] [,3865]   [,3866]  [,3867]   [,3868]
## ORI_10219_10218  549.579 319.490 1138.750 300.894  552.0700 504.1950  252.0910
## ORI_10735_10730  713.769 255.883  226.027 174.417   84.4998  80.9032  241.1710
## ORI_14605_14585  592.355 270.475  305.082 282.507  315.6940 111.8800  263.3250
## ORI_14607_14586  935.620 245.910  841.048 228.008  244.6760 277.4320  129.6970
## ORI_14609_14587  798.576 229.656  373.045 361.131  430.3920 114.3290  183.4240
## ORI_14617_14591  814.170 234.594 1112.050 308.420  635.9120 240.8620  342.6050
## ORI_14623_14594  690.476 354.201 1020.150 482.996  370.9650 370.3620  174.7660
## ORI_14629_14597  732.815 292.972  306.568 448.563   99.5383  51.5069  151.2940
## ORI_14631_14598  855.707 263.570  364.954 384.139  185.6520 123.2370   86.8238
## ORI_14633_14599  673.249 322.604  368.493 336.645  403.7700 193.2470  654.2980
## ORI_14635_14600  681.130 311.353  513.256 449.296  437.9940 236.7300  334.6420
## ORI_14639_14602  645.036 319.198  287.170 368.559  231.9870 155.9510 1110.5400
##                 [,3869]   [,3870] [,3871]  [,3872] [,3873] [,3874] [,3875]
## ORI_10219_10218 400.547   66.6002 106.825 247.6100 199.586 495.380 324.721
## ORI_10735_10730 301.739   50.3089 239.676 198.9420 154.076 367.381 552.039
## ORI_14605_14585 369.611   93.5765 128.070  24.6827 144.386 454.562 483.290
## ORI_14607_14586 273.878   45.3291 256.139  90.9336 190.045 359.517 210.193
## ORI_14609_14587 275.399   37.4199 271.585 100.0820 232.877 218.721 483.597
## ORI_14617_14591 264.824   76.5431 105.871 256.7360 186.605 196.139 344.808
## ORI_14623_14594 518.465  251.0510 132.115 128.2050 183.783 594.402 450.718
## ORI_14629_14597 476.630   36.2197 311.947 982.2670 262.898 476.331 596.872
## ORI_14631_14598 337.929  294.2550 328.587 141.1160 153.926 405.165 720.175
## ORI_14633_14599 349.344   62.4276 161.634 117.8910 165.245 415.733 468.375
## ORI_14635_14600 387.094   98.6428 116.617 107.2890 148.088 531.111 678.874
## ORI_14639_14602 349.408   65.3429 123.079 329.2290 165.584 547.534 448.173
##                  [,3876]  [,3877]   [,3878]  [,3879]   [,3880]  [,3881]
## ORI_10219_10218 109.0990  98.4428  103.1240 557.7690 1277.5600  688.729
## ORI_10735_10730 340.7610  51.3974  123.5650 299.3660  148.6760  815.274
## ORI_14605_14585  97.0848  79.0121  361.9760 631.5790  318.5220  988.028
## ORI_14607_14586  64.7450  66.7611  191.6380 411.0920  538.0360  627.589
## ORI_14609_14587  96.5375  83.8618  490.5270 327.2230  285.8460  570.020
## ORI_14617_14591 136.7530  62.6158  658.9610 175.1220 1482.5300  282.964
## ORI_14623_14594 105.4400  79.6898  297.5180 167.8080 1079.5600  950.101
## ORI_14629_14597 228.7350  40.9534 2707.8700 160.2640  204.8160  684.666
## ORI_14631_14598 435.7090  25.0912 2380.1100 305.5130  210.1350  552.464
## ORI_14633_14599 294.7190 146.2440  384.8330 190.6020  361.6170  995.877
## ORI_14635_14600 112.4380  95.2484   91.6614 272.2910  412.4610  756.833
## ORI_14639_14602 529.9390  64.1677  370.8850 112.0090  252.9060  684.502
##                  [,3882] [,3883]   [,3884]  [,3885]  [,3886] [,3887]  [,3888]
## ORI_10219_10218 221.8980 252.323  992.1990 311.5850  79.6649 175.857  896.317
## ORI_10735_10730  90.0824 257.029   96.0600 146.2570 144.0100 169.715  336.839
## ORI_14605_14585  60.2500 240.652  292.9260 188.7100 135.7410 237.929  838.203
## ORI_14607_14586 182.9820 260.118  325.6360  62.0280 161.8920 206.427  290.438
## ORI_14609_14587  74.6434 258.558  198.6100  81.0378  63.9295 271.742  393.780
## ORI_14617_14591 334.3560 170.884  790.5060 168.9710 377.5950 112.668  523.713
## ORI_14623_14594 134.5230 279.447  616.1270 119.8220 134.2620 185.690  345.141
## ORI_14629_14597 172.0710 352.991  186.6350 219.3650 298.0860 200.382  352.202
## ORI_14631_14598  88.2883 256.647  118.4840 133.2640  24.6827 336.750  312.352
## ORI_14633_14599 102.4960 218.785  220.2130  88.2014 392.1240 224.299  263.385
## ORI_14635_14600 127.6110 259.712  305.6030  57.8453  81.8892 191.048  363.512
## ORI_14639_14602  59.3667 217.645  312.3360  59.0572  58.5499 191.581  257.310
##                 [,3889]   [,3890]   [,3891] [,3892]   [,3893] [,3894]  [,3895]
## ORI_10219_10218 336.862  151.6240  484.7410 203.729  839.7870 325.004 262.2680
```

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## ORI_10735_10730 197.446  131.1250  565.8330 196.096  163.0200 113.933  76.1905
## ORI_14605_14585 356.305  322.6500 1478.4400 174.816  168.3720 183.904 105.2370
## ORI_14607_14586 258.868  134.9450  404.6210 198.673  284.5730 277.054 212.1170
## ORI_14609_14587 165.798  840.4140  690.4330 138.484  189.3480 170.669 110.7430
## ORI_14617_14591 296.009  440.0230 1491.7900  94.432  776.2050 167.188 276.8000
## ORI_14623_14594 477.447   95.2378  944.2380 235.014  878.6360 110.179 171.6890
## ORI_14629_14597 349.451  775.7150  197.9030 218.402  167.3820 196.624 132.8470
## ORI_14631_14598 275.599  473.5590  541.2710 159.775  217.9590 195.894  95.4866
## ORI_14633_14599 305.480  467.1280 1398.7300 164.564  338.0110 268.506 114.0400
## ORI_14635_14600 354.394  124.0050 1613.0400 213.608  478.5530 166.587 159.5220
## ORI_14639_14602 347.627   58.4738   78.8621 178.677  155.0300 265.769  97.4889
##                 [,3896]  [,3897] [,3898] [,3899]  [,3900]  [,3901] [,3902]
## ORI_10219_10218 195.108  938.491 359.165 242.821  916.551  326.930 262.805
## ORI_10735_10730 165.384 1023.860 359.547 342.046  695.169  770.478 525.445
## ORI_14605_14585 236.630 1146.360 329.831 259.801  622.850  573.615 554.429
## ORI_14607_14586 138.860 1593.240 314.948 212.911  558.199  328.891 383.263
## ORI_14609_14587 129.406 1523.620 285.947 284.893  615.550  667.048 431.415
## ORI_14617_14591 148.428  481.194 335.757 293.038  765.221  489.722 350.258
## ORI_14623_14594 255.976  479.956 339.847 356.121  665.341  463.876 382.080
## ORI_14629_14597 253.374  799.041 407.211 173.294  853.557  406.406 503.010
## ORI_14631_14598 196.159 1213.910 339.004 224.776  568.103  659.658 597.995
## ORI_14633_14599 235.352 1063.400 292.659 312.864  637.748 1007.990 580.013
## ORI_14635_14600 224.669  667.528 369.096 287.746  580.835  654.381 475.988
## ORI_14639_14602 226.717  221.083 280.549 535.722  659.023  581.582 519.882
##                 [,3903]   [,3904]  [,3905]  [,3906] [,3907]  [,3908]   [,3909]
## ORI_10219_10218 385.506  274.0850  396.075 102.8920 165.020 1052.930  730.0900
## ORI_10735_10730 448.031  730.3950  942.364 207.2080 456.599 1515.830 1084.7000
## ORI_14605_14585 246.511  226.5790  662.434 167.3100 280.333 1330.250  557.2720
## ORI_14607_14586 208.770  499.5230  975.228 210.9280 323.877 1413.140  307.1110
## ORI_14609_14587 503.943  475.0500  727.235 152.2500 482.555 1721.070  485.9910
## ORI_14617_14591 337.652  108.7900  436.075  86.1595 404.279 1320.640  866.0390
## ORI_14623_14594 227.351  122.4410  349.926 124.9940 193.259 1027.990 1008.9700
## ORI_14629_14597 359.283  125.1720  436.458  83.1624 411.813 1217.040  785.8920
## ORI_14631_14598 365.604  344.1430 1106.370 157.0980 340.082 1206.290  616.9150
## ORI_14633_14599 292.767  276.5460  541.705 166.5490 501.251 1268.200  835.5480
## ORI_14635_14600 249.286  169.5370  415.319 110.4440 247.728 1372.200  848.3120
## ORI_14639_14602 218.792  219.6480  812.775  97.5195 433.505 1574.610  892.3210
##                  [,3910]  [,3911] [,3912] [,3913] [,3914]  [,3915] [,3916]
## ORI_10219_10218  901.301 189.5520 572.635 173.531 461.633  85.4396 313.680
## ORI_10735_10730  965.292 421.5620 495.150 259.961 529.803 247.6540 477.747
## ORI_14605_14585 1032.520 251.7000 517.247 186.294 436.015 128.6850 303.105
## ORI_14607_14586 1084.300 253.4360 445.575 258.716 501.310 109.8640 347.037
## ORI_14609_14587 1262.270 261.4170 607.329 326.746 635.784 176.6460 423.408
## ORI_14617_14591  877.158 167.4890 687.215 125.288 494.200  64.0198 411.688
## ORI_14623_14594  968.737 170.1060 524.240 175.341 405.354 102.0140 228.674
## ORI_14629_14597 1274.400 218.1440 881.541 239.825 594.638 137.7880 230.746
## ORI_14631_14598  963.502 356.6920 945.911 224.063 499.241 173.2010 428.184
## ORI_14633_14599 1204.400 192.0680 651.770 372.941 658.126 241.1300 314.556
## ORI_14635_14600 1054.020 328.6220 509.836 155.312 696.763 148.0250 262.986
## ORI_14639_14602 1191.180 228.6210 633.737 134.921 521.533 332.7520 300.785
##                 [,3917] [,3918]  [,3919] [,3920]   [,3921] [,3922]  [,3923]
## ORI_10219_10218 384.520 495.377  88.6814 431.317   90.1465 1683.30  797.019
## ORI_10735_10730 517.549 242.774 308.9170 872.738  528.6980 1688.56  598.485
## ORI_14605_14585 441.244 305.881 113.9020 453.749  447.3080 1781.73  965.349
```

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## ORI_14607_14586 549.727 353.071 234.6920 699.491  122.7150 1866.82  608.626
## ORI_14609_14587 634.894 369.482 208.9150 643.501  321.9480 2308.66  921.088
## ORI_14617_14591 627.352 503.674 162.0090 441.552   69.2499 1656.31  666.499
## ORI_14623_14594 409.488 317.511  47.3480 497.390  315.3270 1623.55  599.330
## ORI_14629_14597 226.137 278.970 242.1870 536.655  326.0680 1628.74  921.845
## ORI_14631_14598 534.226 252.617 197.1050 649.824  392.9220 2253.26  903.714
## ORI_14633_14599 555.672 366.247 229.0630 600.121  262.4230 2392.44  658.304
## ORI_14635_14600 399.719 409.237 139.1230 451.434  374.2870 1635.89  567.284
## ORI_14639_14602 319.082 300.559  46.3831 310.564  804.8340 1698.08  386.220
##                 [,3924]  [,3925] [,3926] [,3927]  [,3928]  [,3929]  [,3930]
## ORI_10219_10218 297.924  597.333 511.668 421.307  856.612  85.2109  713.567
## ORI_10735_10730 459.805 1814.610 424.671 381.210  503.817 556.9810 1062.570
## ORI_14605_14585 384.191  862.603 649.936 482.936  326.868 151.0460  797.618
## ORI_14607_14586 317.353  958.958 385.779 446.686  624.092 471.6370  834.421
## ORI_14609_14587 506.943 1329.560 355.435 400.348  999.306 399.5580  715.951
## ORI_14617_14591 319.150 1359.900 340.109 348.331 1094.520  77.8611  580.185
## ORI_14623_14594 242.538  951.389 367.633 386.919  643.061  65.8068  493.373
## ORI_14629_14597 298.912 1105.040 298.134 449.678  539.303  79.3958 2054.180
## ORI_14631_14598 442.608 1236.790 243.280 561.469  879.543 367.5950  935.196
## ORI_14633_14599 350.154 1004.400 340.944 418.457  675.434 121.1730  667.213
## ORI_14635_14600 437.245 1138.300 341.551 452.147  732.142  88.1917  533.233
## ORI_14639_14602 402.448  797.063 283.988 382.454  339.867  77.3394  843.839
##                 [,3931] [,3932]  [,3933] [,3934]  [,3935]  [,3936] [,3937]
## ORI_10219_10218 642.903 269.563  829.605 435.340  574.922 116.8420 320.911
## ORI_10735_10730 555.372 347.014  839.255 537.138  659.044 314.9340 456.878
## ORI_14605_14585 720.251 259.312  942.656 421.802  554.945 238.8950 416.482
## ORI_14607_14586 656.656 363.018 1084.720 394.190  503.393 107.7080 511.079
## ORI_14609_14587 536.928 321.782 1274.690 505.154  614.820 205.9250 400.712
## ORI_14617_14591 646.119 416.564  965.475 472.277  526.781 150.1400 315.696
## ORI_14623_14594 966.029 260.641  825.330 421.245  721.998 293.3800 482.581
## ORI_14629_14597 738.851 278.549  759.992 372.606  722.162 226.2070 524.001
## ORI_14631_14598 825.189 306.258 1122.990 541.754  667.483 249.5970 541.320
## ORI_14633_14599 875.021 262.221 1107.190 470.506  502.246 357.8780 506.336
## ORI_14635_14600 765.943 320.601 1008.260 560.287  788.244 384.4090 513.876
## ORI_14639_14602 603.865 326.993  816.525 444.271  552.689 232.6470 569.775
##                 [,3938] [,3939] [,3940]  [,3941] [,3942]  [,3943]  [,3944]
## ORI_10219_10218 479.100 374.041 347.131 301.0740 481.057  867.185  651.078
## ORI_10735_10730 648.727 469.227 625.456 200.1000 704.723  715.282  578.132
## ORI_14605_14585 603.068 476.727 412.335  49.9007 657.772  885.644  446.690
## ORI_14607_14586 682.134 553.219 354.469 112.4380 401.130  633.564  353.122
## ORI_14609_14587 658.308 361.607 380.269 889.5080 658.870  983.901  472.225
## ORI_14617_14591 716.702 381.782 451.471 151.7290 590.453 1015.390  459.257
## ORI_14623_14594 539.591 484.209 387.062 413.5820 391.854  751.767  708.839
## ORI_14629_14597 654.283 295.702 391.650 162.4500 597.155  590.641  430.305
## ORI_14631_14598 626.232 438.973 412.130 337.3600 631.611 1083.300  611.998
## ORI_14633_14599 593.487 461.469 316.737 643.5170 426.779  602.065  604.788
## ORI_14635_14600 545.910 771.636 373.154 635.6570 484.831  571.397  694.333
## ORI_14639_14602 411.586 578.440 346.849 334.4140 393.236  750.737  445.151
##                 [,3945]  [,3946] [,3947] [,3948]  [,3949] [,3950] [,3951]
## ORI_10219_10218 370.354  447.256 340.506 535.758 1301.540 424.350 255.905
## ORI_10735_10730 438.227  999.448 347.412 631.749  603.022 428.583 272.485
## ORI_14605_14585 301.119  651.025 585.118 494.520 1204.370 348.235 256.298
## ORI_14607_14586 366.507 1126.430 791.520 369.709  449.089 380.413 297.716
## ORI_14609_14587 512.399 1243.240 685.850 579.746  794.335 702.542 322.595
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## ORI_14617_14591 586.587  579.122 791.284 688.323  667.106 446.325 319.556
## ORI_14623_14594 408.511  544.368 468.227 560.236  649.497 399.871 193.080
## ORI_14629_14597 625.342  586.463 626.091 562.750  608.958 337.631 328.735
## ORI_14631_14598 445.628  577.154 615.354 575.753  665.256 556.254 253.505
## ORI_14633_14599 380.780  832.586 777.144 404.227  451.774 372.480 232.323
## ORI_14635_14600 538.551  546.979 648.668 596.286  722.312 328.315 296.465
## ORI_14639_14602 365.294  377.324 500.306 618.475  607.672 404.181 248.984
##                  [,3952] [,3953] [,3954]  [,3955]  [,3956]  [,3957] [,3958]
## ORI_10219_10218  645.414 412.358 602.135  587.575  901.871  81.1082 565.626
## ORI_10735_10730  716.181 384.585 451.417  810.119  456.642 323.9300 687.732
## ORI_14605_14585  549.579 521.521 493.908  815.067  446.508 220.7380 534.295
## ORI_14607_14586  492.972 479.744 487.630  616.654  701.228 114.4580 632.493
## ORI_14609_14587  886.612 551.950 532.503  878.194  531.312 269.0690 720.409
## ORI_14617_14591  684.852 568.816 529.896  971.202 1301.040 126.8780 554.429
## ORI_14623_14594  517.630 398.761 257.604  803.634 1128.520 135.1200 552.360
## ORI_14629_14597  685.946 475.161 207.125 1575.400  609.424 415.9840 554.900
## ORI_14631_14598  902.632 591.635 377.292 1005.220  415.784 241.6830 702.068
## ORI_14633_14599  542.233 359.503 493.111 1706.370  352.799 171.1150 574.054
## ORI_14635_14600  575.308 380.770 507.923  886.794  407.405 199.1350 633.304
## ORI_14639_14602  607.854 551.896 187.194  833.323  553.002 274.0240 917.198
##                 [,3959] [,3960]  [,3961] [,3962] [,3963]  [,3964] [,3965]
## ORI_10219_10218 461.721 226.818 395.7740 486.840 787.031 212.3660 384.507
## ORI_10735_10730 258.200 458.992  24.6827 354.613 369.310 176.5930 671.777
## ORI_14605_14585 396.722 165.058  44.9268 397.228 570.266 189.9870 532.503
## ORI_14607_14586 377.300 205.983 252.3630 385.553 327.537 140.9540 425.259
## ORI_14609_14587 263.100 264.013 133.0230 347.323 588.080 172.9900 588.724
## ORI_14617_14591 436.454 200.022 468.2150 276.774 571.597  78.8242 324.157
## ORI_14623_14594 613.910 194.311 448.4210 258.044 410.246 158.0830 344.193
## ORI_14629_14597 513.820 161.014  47.9441 417.580 521.315 200.1260 292.751
## ORI_14631_14598 286.762 189.948  32.8371 267.000 247.997 140.7030 440.782
## ORI_14633_14599 415.674 271.823 135.1020 413.359 448.752 199.9840 480.652
## ORI_14635_14600 481.761 294.390 111.3760 396.522 413.908 197.8250 429.414
## ORI_14639_14602 376.067 214.857 194.5820 282.615 243.149 181.4180 464.180
##                   [,3966]  [,3967] [,3968] [,3969] [,3970]  [,3971] [,3972]
## ORI_10219_10218  864.4980 1227.580 437.169 504.917 219.564  396.875 309.818
## ORI_10735_10730  429.1460 1081.230 329.017 374.756 439.799  500.553 323.939
## ORI_14605_14585  817.6100 1844.060 354.792 369.189 374.332  510.614 367.807
## ORI_14607_14586  315.1160 1627.570 394.149 353.234 265.862  402.379 484.238
## ORI_14609_14587  522.7770 2605.560 448.861 551.540 335.389  535.114 547.014
## ORI_14617_14591  500.8080 1801.150 387.652 386.092 306.052  373.457 409.618
## ORI_14623_14594  468.3810  942.927 294.392 309.408 223.919  345.200 389.261
## ORI_14629_14597  571.7720  849.022 431.816 407.709 185.434  296.450 368.686
## ORI_14631_14598  744.9210 1109.450 457.062 393.879 359.818  384.929 495.307
## ORI_14633_14599  101.4010 2028.840 258.643 410.618 326.486  332.943 301.483
## ORI_14635_14600  485.3740 1448.710 307.158 451.003 213.809  373.900 352.045
## ORI_14639_14602  330.6980  527.267 327.915 260.045 313.816  270.781 375.310
##                 [,3973]  [,3974]  [,3975] [,3976] [,3977] [,3978]  [,3979]
## ORI_10219_10218 235.210 184.6020 624.1940 448.580 326.459 530.078 2226.110
## ORI_10735_10730 230.843 239.3520  78.9316 382.471 134.579 279.318  584.490
## ORI_14605_14585 300.053 250.4640 421.2550 292.566 227.519 332.295  805.380
## ORI_14607_14586 179.644 248.9210 128.6980 243.739 183.705 447.246 1111.910
## ORI_14609_14587 322.692 215.7470 199.6880 379.130 174.808 543.180 1417.510
## ORI_14617_14591 238.097 188.6460 215.7100 455.930 345.693 431.404 1993.530
## ORI_14623_14594 225.009 231.7760 197.4670 299.603 182.888 447.095  863.608
```

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## ORI_14629_14597 299.624 227.4790 146.7160 269.309 173.962 271.229  924.786
## ORI_14631_14598 247.069 215.3190 102.0640 220.526 152.589 466.616  758.669
## ORI_14633_14599 264.832 228.1870 143.6970 238.659 216.304 438.851 1104.170
## ORI_14635_14600 346.420 203.6500 286.2420 333.008 201.304 512.423 1168.890
## ORI_14639_14602 303.534 163.6630 134.5930 319.748 195.674 429.819  712.033
##                  [,3980]  [,3981]  [,3982]  [,3983] [,3984] [,3985]   [,3986]
## ORI_10219_10218  608.816 226.8810  846.319 420.0480 650.066 386.416  213.8280
## ORI_10735_10730  625.470  54.7426  778.210 193.0460 537.589 440.600  453.6480
## ORI_14605_14585  497.498 168.8880  916.882 291.9750 397.001 372.309  605.6790
## ORI_14607_14586  450.324 109.9220  807.493 307.0340 648.635 329.612  420.4810
## ORI_14609_14587  598.750 106.4490  679.300 785.2140 487.210 480.888  975.9840
## ORI_14617_14591  786.876 167.7790  805.400 437.5340 519.543 417.386  621.3860
## ORI_14623_14594  568.622 161.1790  826.146 130.8770 453.355 282.748  641.7920
## ORI_14629_14597  491.878  60.2167  881.229 310.5960 334.630 323.020  546.1880
## ORI_14631_14598  698.789  51.2563  632.703 703.6900 292.363 492.301  511.9190
## ORI_14633_14599  576.975  74.7625  807.067  60.4778 509.978 378.512  514.4960
## ORI_14635_14600  656.557 116.5880  705.046 208.7730 429.881 428.805  762.4700
## ORI_14639_14602  556.295  48.8177  730.047  32.3765 449.024 319.351  418.4240
##                  [,3987] [,3988]  [,3989]  [,3990]  [,3991] [,3992]   [,3993]
## ORI_10219_10218 177.2360 479.134 398.1980 1406.790 1073.460 266.949  232.0740
## ORI_10735_10730 235.5390 601.970 135.3540  229.678 1356.570  63.345  674.0060
## ORI_14605_14585 171.4620 433.807 386.7890  311.666  800.509 144.011  484.1340
## ORI_14607_14586 132.8830 446.391 106.9890  699.114 1050.640 165.564  124.4960
## ORI_14609_14587 257.2800 682.932 218.3450  446.079  949.632 129.611  389.0930
## ORI_14617_14591  66.5139 263.775 185.4580 1604.960 1144.910 304.145  501.8690
## ORI_14623_14594  86.9885 249.647 154.8390 1055.380 1180.010 232.277  270.9450
## ORI_14629_14597  81.9446 509.412 108.4030  265.252 1453.800 162.123  762.7870
## ORI_14631_14598 166.5630 664.236  56.6285  288.283  885.804 142.345  408.7780
## ORI_14633_14599 242.6300 182.689  87.5798  519.836  867.130 134.390  877.9720
## ORI_14635_14600 142.7290 223.579 205.4930  578.973  940.770 162.297  249.0240
## ORI_14639_14602  61.6645 132.771  83.5210  332.031 1152.110 136.136  649.6310
##                   [,3994]  [,3995] [,3996] [,3997] [,3998] [,3999] [,4000]
## ORI_10219_10218  163.0180  558.503 253.630 362.937 435.738 367.614 717.803
## ORI_10735_10730  548.0710  477.724 381.957 578.143 333.853 337.332 464.770
## ORI_14605_14585   34.2745  428.585 229.675 357.058 439.499 417.685 642.810
## ORI_14607_14586  109.6720  468.497 234.819 252.383 330.053 384.770 615.267
## ORI_14609_14587   35.5358  586.000 319.457 528.923 465.552 526.784 718.576
## ORI_14617_14591  462.7060  739.249 233.303 461.518 436.439 454.169 813.380
## ORI_14623_14594  211.8190  556.487 348.269 298.202 740.023 421.167 738.504
## ORI_14629_14597   24.6827  506.755 481.703 158.516 570.835 396.417 727.789
## ORI_14631_14598   24.6827  359.683 274.330 270.767 490.533 500.054 639.409
## ORI_14633_14599  664.6910  527.509 310.754 299.775 508.691 316.807 704.523
## ORI_14635_14600  305.5010  509.883 325.140 345.693 733.872 547.496 476.907
## ORI_14639_14602  260.7180  487.840 283.960 330.863 424.496 308.706 470.261
##                 [,4001] [,4002] [,4003] [,4004]  [,4005]  [,4006] [,4007]
## ORI_10219_10218 667.402 709.434 356.848 400.277 371.5560  71.9633 250.565
## ORI_10735_10730 714.182 508.496 242.072 513.679 305.9110 157.2540 373.397
## ORI_14605_14585 868.620 942.162 489.907 407.066 533.8800 117.2760 265.090
## ORI_14607_14586 972.618 471.938 244.154 442.581 296.8700 134.1730 219.313
## ORI_14609_14587 707.215 601.750 359.907 485.971 554.4080 172.4740 415.896
## ORI_14617_14591 990.279 551.440 277.299 403.367 489.4780 108.4840 279.138
## ORI_14623_14594 621.133 452.821 158.970 319.934 201.5650 114.4090 219.658
## ORI_14629_14597 877.957 325.098 276.308 353.219 881.5860 104.5110 325.116
## ORI_14631_14598 469.942 406.070 177.606 417.594 616.3350 116.4980 270.398
```

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## ORI_14633_14599 693.825 569.733 241.790 421.468 334.8880 116.9610 338.483
## ORI_14635_14600 497.345 563.447 289.628 502.594 243.6760 133.8830 280.174
## ORI_14639_14602 628.249 473.910 205.901 494.988 166.6980 111.6320 130.606
##                   [,4008] [,4009]  [,4010] [,4011] [,4012]  [,4013]  [,4014]
## ORI_10219_10218  491.0070 309.308 396.2980 280.632 474.730  211.227 1212.000
## ORI_10735_10730  479.0210 504.953 355.7430 314.031 425.018  585.774 1248.790
## ORI_14605_14585  813.3850 496.034 294.5470 320.252 446.509  274.642 1569.010
## ORI_14607_14586  345.7060 556.785 215.4280 217.974 375.025  351.960 1407.070
## ORI_14609_14587  663.9730 597.209 345.8790 390.207 389.730  598.386 1747.730
## ORI_14617_14591  759.6980 417.523 538.4260 272.307 398.202  383.622 1519.680
## ORI_14623_14594  710.1270 512.807 366.0870 331.252 368.535  222.744 1283.870
## ORI_14629_14597 1293.9400 341.844 321.2970 261.362 412.744  727.368 1581.540
## ORI_14631_14598  745.2480 497.881 373.9950 332.578 416.489  505.104 1256.270
## ORI_14633_14599  925.5370 536.191 306.6340 385.979 579.236  279.201 1790.400
## ORI_14635_14600  556.8480 550.875 404.3430 375.631 452.855  265.226 1808.410
## ORI_14639_14602  544.7280 366.778 424.0310 227.501 446.238  558.725 1667.850
##                 [,4015] [,4016]  [,4017]  [,4018] [,4019] [,4020]  [,4021]
## ORI_10219_10218 495.352 424.373 1023.310  768.279 297.053 407.175  515.249
## ORI_10735_10730 439.322 530.824 1094.480  687.089 399.475 359.924  401.060
## ORI_14605_14585 446.828 344.585 1156.710 1012.440 585.357 461.362  494.780
## ORI_14607_14586 349.073 263.637 1264.300 1011.340 409.407 337.396  728.118
## ORI_14609_14587 399.900 753.404  852.434  777.928 414.576 417.082  446.607
## ORI_14617_14591 652.703 338.920  776.189  831.815 355.560 395.419  555.647
## ORI_14623_14594 499.349 298.583 1056.140  791.913 427.875 389.778  453.177
## ORI_14629_14597 464.609 386.530 1098.490 1078.990 475.844 355.709  491.514
## ORI_14631_14598 582.721 436.712  976.627  914.830 506.974 354.912  509.168
## ORI_14633_14599 334.746 320.372 1149.280  878.803 432.676 387.385  588.733
## ORI_14635_14600 368.847 342.793 1266.440  801.099 400.557 383.242  565.950
## ORI_14639_14602 481.875 343.151 1108.120  651.624 375.169 438.807  448.797
##                  [,4022]   [,4023]  [,4024]   [,4025]  [,4026] [,4027]  [,4028]
## ORI_10219_10218 293.2570  974.9790 1715.940  175.9570 1320.690 253.692 411.9030
## ORI_10735_10730 204.3710  623.5760  933.683  426.3150  702.239 483.645 422.9230
## ORI_14605_14585 140.3020  530.2510 1520.640  110.5070  644.578 340.499 319.7780
## ORI_14607_14586 126.2980  423.3210 1634.510  614.2860  836.872 281.909 176.7600
## ORI_14609_14587 221.0680  873.9970 1590.970  261.6000  690.993 456.322 149.5760
## ORI_14617_14591 170.3340  935.4480 1237.410  345.1420 1371.210 386.871 351.4070
## ORI_14623_14594 144.6870  733.0040 1984.910  150.6280  813.271 257.225 277.1760
## ORI_14629_14597 174.6500  425.3030 2033.590  358.3850  708.734 219.401 285.1010
## ORI_14631_14598 206.5540  990.9110 1661.110  553.4880  429.325 493.378 224.3450
## ORI_14633_14599 195.2110  336.9600 1425.550  113.2650  437.371 267.070 196.3890
## ORI_14635_14600 152.8790  353.3690 1760.020   91.7686  572.038 265.319 210.4200
## ORI_14639_14602 154.4350  396.8220 1659.820 1958.5500  575.326 308.122 447.8830
##                 [,4029] [,4030]  [,4031]  [,4032] [,4033] [,4034] [,4035]
## ORI_10219_10218 458.044 240.863 494.2470 122.3120 461.347 362.091 391.721
## ORI_10735_10730 463.644 413.905  86.4716 462.9780 337.097 346.567 450.767
## ORI_14605_14585 573.824 289.223 490.4970 209.4970 295.790 234.240 392.309
## ORI_14607_14586 611.126 222.578 127.6100 180.9010 294.941 184.112 423.885
## ORI_14609_14587 632.076 225.452 156.1720 319.2580 250.658 252.111 460.827
## ORI_14617_14591 493.200 140.740  87.7700 169.1310 258.340 383.524 368.359
## ORI_14623_14594 364.647 310.505 144.8960 205.7600 401.458 237.171 238.859
## ORI_14629_14597 302.441 359.667 126.2920 267.0050 360.354 299.184 495.745
## ORI_14631_14598 521.488 218.854  82.7021 335.6140 353.679 186.557 295.644
## ORI_14633_14599 783.897 335.768 138.7170 264.2250 354.777 225.741 392.360
## ORI_14635_14600 647.227 303.807 199.4780 224.8800 347.992 270.827 270.139
```

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## ORI_14639_14602 351.156 315.027  62.7633 299.8890 313.823 161.191 201.111
##                  [,4036]  [,4037]  [,4038]  [,4039] [,4040] [,4041] [,4042]
## ORI_10219_10218 289.9850  941.696 1332.830 1268.940 391.680 514.050 250.977
## ORI_10735_10730 413.6910  669.590 1164.740  876.842 422.765 356.779 479.739
## ORI_14605_14585 412.1760 1129.030 1182.980 1150.950 380.820 429.938 380.289
## ORI_14607_14586 212.4700  487.375 1155.730  630.647 393.858 392.801 342.392
## ORI_14609_14587 264.7450  926.053 2234.970 1058.360 547.616 566.425 469.132
## ORI_14617_14591 352.3410  579.387 1293.330  626.791 626.158 515.958 385.827
## ORI_14623_14594 219.7480  599.170 1196.480  524.286 345.184 257.428 426.597
## ORI_14629_14597 129.2210 1157.250 1745.930 1074.730 329.028 238.949 495.550
## ORI_14631_14598 173.0980  476.996 1990.180  646.277 271.220 449.268 423.519
## ORI_14633_14599 382.8180  539.152 1360.830  655.612 441.961 256.289 240.518
## ORI_14635_14600 175.1600  658.440 1332.950  532.627 361.182 328.865 467.219
## ORI_14639_14602 307.2200  508.419  870.588  798.016 283.899 297.435 611.393
##                  [,4043]   [,4044]  [,4045]  [,4046]  [,4047] [,4048]  [,4049]
## ORI_10219_10218  495.391  171.8350 619.0360 488.5310 1173.800 512.026  935.756
## ORI_10735_10730  469.457 1267.7100 359.0350 138.1870  724.109 731.002  408.404
## ORI_14605_14585  414.715  204.4520 289.3600 188.2690 1481.880 574.174  465.525
## ORI_14607_14586  861.075  213.4640 595.7690 166.9440 1189.090 555.773  461.012
## ORI_14609_14587  746.271  702.6070 614.9750 471.1420 1742.890 722.088  647.000
## ORI_14617_14591  408.996  253.8590 788.9510 409.4850 1201.670 580.657 1154.140
## ORI_14623_14594  364.628  112.1330 417.3880 265.4150 1919.320 612.881  621.415
## ORI_14629_14597  236.740  501.1520  57.6117 222.5850 1894.660 669.898  325.427
## ORI_14631_14598  434.013  569.4740 341.6240 477.3420 1652.820 571.346  396.336
## ORI_14633_14599  452.234  232.9070 260.7380 179.2750 1689.290 722.493  408.624
## ORI_14635_14600  325.443  231.7470 430.5390 131.9860 1724.810 674.456  695.927
## ORI_14639_14602  172.771  185.9550 435.6280  87.5200 1577.410 484.358  483.171
##                  [,4050]  [,4051]  [,4052] [,4053]  [,4054]  [,4055] [,4056]
## ORI_10219_10218 318.8320 326.2780  428.819 388.110 177.8220 1462.590 511.122
## ORI_10735_10730 264.6170 427.3190  719.673 427.599 282.4290  675.160 287.206
## ORI_14605_14585 467.3820 292.4470  504.169 486.468 595.1950 1516.810 394.681
## ORI_14607_14586 385.5370 256.2720  421.955 756.089 212.1180  936.253 371.038
## ORI_14609_14587 561.3150 550.6580  786.442 387.875 583.4750  794.453 352.110
## ORI_14617_14591 482.2120 274.6210  540.518 522.401 270.3850 1195.080 529.246
## ORI_14623_14594 729.4640 176.0110  700.389 311.344 487.6210  711.429 536.033
## ORI_14629_14597 694.3190 481.4550  505.141 609.802 273.7980  379.075 428.376
## ORI_14631_14598 574.6490 338.5840  669.617 304.825 365.9130  807.453 448.785
## ORI_14633_14599 405.9690  91.8237  715.222 548.133 308.6650  738.138 397.629
## ORI_14635_14600 690.4700 121.3790 1003.650 432.853 636.7970  589.608 465.403
## ORI_14639_14602 550.2860 132.7260  687.209 447.548 586.3030  408.975 388.910
##                  [,4057] [,4058]  [,4059] [,4060] [,4061] [,4062] [,4063]
## ORI_10219_10218  681.528 337.401 149.7520 422.871 152.150 203.620 282.494
## ORI_10735_10730  597.075 697.599 260.1150 273.314 297.488 364.662 259.247
## ORI_14605_14585  884.270 410.223 114.4060 281.350 214.286 257.680 252.353
## ORI_14607_14586  716.346 562.516 110.9270 328.402 389.636 269.901 247.196
## ORI_14609_14587  534.661 741.268 385.6650 400.600 221.840 333.478 292.928
## ORI_14617_14591 1079.490 758.732 208.9040 356.748 130.076 207.560 235.072
## ORI_14623_14594 1193.550 631.954 129.8560 233.086 192.455 281.290 280.423
## ORI_14629_14597  539.456 546.930 109.1820 238.127 267.188 297.587 333.660
## ORI_14631_14598  179.395 591.586 395.0950 284.561 227.192 364.278 321.363
## ORI_14633_14599  932.942 550.558 267.2490 219.465 226.643 320.449 329.999
## ORI_14635_14600 1482.570 645.435  65.8463 224.570 176.700 290.706 245.494
## ORI_14639_14602  964.827 594.841  81.4808 135.256 324.568 249.845 401.000
##                  [,4064] [,4065]  [,4066]  [,4067] [,4068] [,4069] [,4070]
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## ORI_10219_10218  760.649 375.086  951.620  659.486 851.270 647.474 228.732
## ORI_10735_10730 2038.150 195.153  458.188  829.948 541.001 325.781 381.038
## ORI_14605_14585 1422.900 324.842  649.306  714.867 654.196 667.843 224.498
## ORI_14607_14586 1364.010 209.844  899.356  955.265 659.307 454.504 163.789
## ORI_14609_14587 2034.950 270.383  795.295  760.299 788.187 635.962 339.471
## ORI_14617_14591  872.044 262.483  920.554  750.238 574.757 688.744 177.938
## ORI_14623_14594 1166.000 176.380  900.325  680.093 571.082 433.023 171.494
## ORI_14629_14597 1234.110 210.470  917.559  598.274 599.953 634.707 237.979
## ORI_14631_14598 1960.250 135.015  643.288  805.868 793.263 471.236 266.322
## ORI_14633_14599 1196.030 315.000  804.950  767.912 629.752 672.251 213.977
## ORI_14635_14600 1275.930 266.715  819.215  890.432 590.879 585.736 151.770
## ORI_14639_14602 1024.710 352.263  690.610  925.790 527.150 518.766 145.062
##                  [,4071]  [,4072]  [,4073] [,4074]  [,4075]  [,4076] [,4077]
## ORI_10219_10218 1049.870 341.8840  995.980 208.946 1033.160 179.5570 352.624
## ORI_10735_10730  436.444 389.4930  520.794 373.213  815.609 432.0050 132.448
## ORI_14605_14585  652.382 310.1080 1137.410 407.986 1088.860 274.3860 262.470
## ORI_14607_14586  708.766 203.5960 1131.530 307.852  832.476 247.8970 193.483
## ORI_14609_14587  970.904 199.5740 1105.750 392.280  784.181 482.3980 151.856
## ORI_14617_14591  791.009 276.0290  670.850 370.530  575.049 247.4350 366.410
## ORI_14623_14594  497.305 386.0870  700.888 324.333  770.718 294.0090 295.905
## ORI_14629_14597  166.089 361.7770 1026.730 291.254  922.226 328.0370 232.068
## ORI_14631_14598  562.257 363.7210 1263.050 290.895  838.214 271.5240 175.482
## ORI_14633_14599  858.962 221.5500  572.199 257.923  788.932 317.5630 255.625
## ORI_14635_14600  618.644 366.7430  421.665 253.971  801.125 340.3030 245.776
## ORI_14639_14602  304.415 462.2530  244.619 438.298  684.186 264.1580 234.219
##                 [,4078] [,4079]  [,4080] [,4081] [,4082] [,4083]  [,4084]
## ORI_10219_10218 246.321 217.711  849.205 632.075 365.194 770.960  806.723
## ORI_10735_10730 279.496 317.474  694.210 597.948 458.113 525.521  352.914
## ORI_14605_14585 326.974 371.909  626.360 519.783 268.524 876.295  800.432
## ORI_14607_14586 298.438 746.214  575.454 707.982 244.371 613.667  437.235
## ORI_14609_14587 352.589 502.646  730.957 801.052 343.783 719.161  756.225
## ORI_14617_14591 228.345 233.228 1068.100 944.184 411.231 645.137  947.874
## ORI_14623_14594 238.135 182.415  704.226 644.119 380.827 605.233  392.088
## ORI_14629_14597 231.434 218.152  867.542 727.990 322.420 623.615  502.996
## ORI_14631_14598 228.370 292.433  794.830 761.835 313.807 631.847  306.347
## ORI_14633_14599 326.236 321.704  546.550 601.201 441.379 686.295  632.819
## ORI_14635_14600 290.361 248.764  647.687 679.912 418.646 558.615  509.799
## ORI_14639_14602 193.732 211.642  573.762 574.654 515.185 719.776  277.924
##                   [,4085] [,4086]  [,4087] [,4088]  [,4089]  [,4090]  [,4091]
## ORI_10219_10218  792.8280 616.379 276.5180 570.105 688.7250 186.9120  775.360
## ORI_10735_10730   92.0812 467.980  24.6827 389.653  55.3989 273.0290  480.498
## ORI_14605_14585  139.0240 627.863  26.4919 389.307 419.9950 229.3420  837.133
## ORI_14607_14586  228.2450 560.770 155.0960 472.936  86.7744 233.4800  679.551
## ORI_14609_14587  168.1250 665.416  71.9377 382.270 247.3070 303.2380  883.007
## ORI_14617_14591  736.6750 781.468 223.9030 613.554 180.9740 266.2880 1200.440
## ORI_14623_14594  355.8320 568.000 190.6480 401.857 215.4870 226.0420  762.433
## ORI_14629_14597  139.9020 388.049  24.6827 441.270 139.4470 338.1020  865.368
## ORI_14631_14598  106.9370 532.476  24.6827 365.144  75.4422 375.2910 1135.050
## ORI_14633_14599  255.5540 656.514  64.0374 568.191 177.3420 176.5830  595.512
## ORI_14635_14600  352.7770 716.980  89.1505 437.273 253.5670 269.4370  972.199
## ORI_14639_14602  170.7230 390.487  24.6827 312.011  73.2986 251.2870  576.696
##                 [,4092] [,4093]   [,4094] [,4095] [,4096]   [,4097]  [,4098]
## ORI_10219_10218 133.180 267.740   92.4653 766.978 326.741 1074.9300  59.2431
## ORI_10735_10730 304.723 356.569  135.0790 169.137 324.079 1142.0400 290.6850
```

```
## ORI_14605_14585 236.326 341.352  368.4090 268.202 338.327  726.5150 142.1360
## ORI_14607_14586 178.834 309.964 2320.7400 384.306 308.672 1712.2900  62.0174
## ORI_14609_14587 241.572 440.586  305.2530 290.989 397.473 1367.0400 222.5770
## ORI_14617_14591 221.149 496.765  110.9390 763.624 394.218 1168.5200 112.4870
## ORI_14623_14594 155.299 405.806  130.5750 339.445 420.294 1018.7300  64.6129
## ORI_14629_14597 237.848 520.710  163.0090 332.659 364.261  991.2280 330.3290
## ORI_14631_14598 277.459 376.449  161.7310 397.710 376.167 1134.6700 389.7460
## ORI_14633_14599 265.122 492.162   91.8493 381.122 429.883  953.7200  71.8558
## ORI_14635_14600 225.609 477.170   37.3174 310.140 556.173  763.2220  97.4473
## ORI_14639_14602 268.148 471.794   38.4545 244.121 454.229  550.5970  79.2424
##                 [,4099]  [,4100]  [,4101]  [,4102] [,4103]  [,4104]  [,4105]
## ORI_10219_10218 587.515  369.921  676.886 223.4700 1358.58 117.1230  383.645
## ORI_10735_10730 523.380  375.023  210.505 158.7780 1678.61  24.6827  807.854
## ORI_14605_14585 535.034  540.613  465.517 368.4980 1969.57 176.8470  767.332
## ORI_14607_14586 532.444  459.877  655.787 231.0190 1390.39  80.7984  240.215
## ORI_14609_14587 468.821  469.090  342.628 315.9400 1712.05  31.6931  489.521
## ORI_14617_14591 808.960  280.041  763.357 307.9830 1242.14  95.5303  581.902
## ORI_14623_14594 407.120  206.336  303.128 411.1370 1228.35 372.3770 1024.780
## ORI_14629_14597 607.589  373.961  872.508 308.7900 1425.67  44.3092  497.718
## ORI_14631_14598 417.708  349.914  905.702 296.1710 1476.06 130.9020  369.239
## ORI_14633_14599 874.707  241.133  208.000 243.8130 1847.17 160.4180  786.032
## ORI_14635_14600 549.155  207.787  233.425 324.2690 1544.87 390.0450  914.297
## ORI_14639_14602 437.519  353.893  154.482 232.6690 1174.12 177.8940 1236.370
##                  [,4106] [,4107]   [,4108]  [,4109] [,4110]   [,4111]  [,4112]
## ORI_10219_10218 283.5860 373.936  588.4060  935.093 408.741 1439.9100  383.777
## ORI_10735_10730 240.2960 449.287  198.5730  786.725 446.296  391.2430  288.687
## ORI_14605_14585 147.0060 444.837  149.2120  863.497 410.618 1077.6700  431.636
## ORI_14607_14586 226.2900 443.639  207.3870  773.863 401.617  546.8040  516.050
## ORI_14609_14587 306.0440 580.466  291.3320  676.198 394.610  630.5220  824.224
## ORI_14617_14591 359.6790 608.647  493.5180  694.515 291.091  750.1450  592.806
## ORI_14623_14594 399.7550 436.978  223.6110  974.209 302.379  508.7240  947.195
## ORI_14629_14597 334.3140 213.850  401.6140  794.023 279.187  340.4560  624.016
## ORI_14631_14598 151.7600 813.897  251.0390  657.666 344.869  228.3660  425.402
## ORI_14633_14599 144.9080 651.823  207.9910 1189.520 285.710  250.2840  297.789
## ORI_14635_14600 178.1880 652.673  226.7220  783.505 219.700  541.2400  481.639
## ORI_14639_14602 265.0180 463.540  151.3660  807.513 250.176  220.4650  232.658
##                 [,4113]  [,4114]  [,4115] [,4116]   [,4117]  [,4118]  [,4119]
## ORI_10219_10218 387.937 222.0480 123.0730 287.124  466.1750 135.9310 260.2400
## ORI_10735_10730 392.399 135.8940 161.0510 409.353  333.7480  67.6637  82.8015
## ORI_14605_14585 425.174 277.4340 136.8140 295.158  114.3230 250.3890 107.2970
## ORI_14607_14586 362.737 237.2370 144.4240 427.471   99.5337  92.5427 194.6770
## ORI_14609_14587 257.276 298.7380 138.7090 298.677  534.3450  96.7810 227.9590
## ORI_14617_14591 328.003 237.2110 181.7700 380.111  314.6090 148.0700 259.0290
## ORI_14623_14594 632.856 237.2700 148.4550 339.098  267.0410 186.9450 158.2320
## ORI_14629_14597 352.312 184.4920 119.1460 330.264  179.8630 106.4580 181.4400
## ORI_14631_14598 357.476 126.3980 117.0490 372.487   98.7585 166.4560 298.6130
## ORI_14633_14599 504.510 183.6280  77.5407 410.525  367.8180 284.6540 113.1980
## ORI_14635_14600 476.138 274.7720 122.5300 455.406  232.6460 431.5840  83.3913
## ORI_14639_14602 420.975 236.8660 158.1650 318.787  250.7240 107.5280  52.4447
##                 [,4120]  [,4121]  [,4122] [,4123]  [,4124]  [,4125] [,4126]
## ORI_10219_10218 325.780  590.958 203.9410 394.873  834.380  33.4966 498.940
## ORI_10735_10730 230.243  201.275 301.7480 361.631 1074.980 199.2220 476.338
## ORI_14605_14585 365.641  246.301 298.2260 443.848 1231.950 155.3400 815.716
## ORI_14607_14586 272.069  338.728 258.4490 244.360  960.688  37.8188 423.182
```

```
## ORI_14609_14587 241.195  269.239 344.5220 471.513 1604.160  84.2976 583.855
## ORI_14617_14591 227.766  742.032 164.1640 674.685 1426.480  44.8323 481.491
## ORI_14623_14594 193.555  557.029 291.6570 396.667 1055.080  82.4049 324.375
## ORI_14629_14597 349.118  204.257 321.1230 131.217 1041.720  77.4552 709.624
## ORI_14631_14598 201.252  292.679 246.9510 584.444 1172.030  99.4460 449.267
## ORI_14633_14599 230.330  258.537 312.4390 338.901 1369.860  61.8521 212.999
## ORI_14635_14600 263.116  315.864 242.9890 316.083 1528.200 113.1770 384.744
## ORI_14639_14602 173.117  253.844 302.7810 238.789  951.687 259.2230 287.936
##                  [,4127]  [,4128]  [,4129]  [,4130] [,4131]  [,4132]  [,4133]
## ORI_10219_10218  41.0882 1416.170 2430.590  74.7815 372.284 153.8850 264.3220
## ORI_10735_10730 259.9800  321.340  806.766  36.0175 450.350 377.7870 166.6270
## ORI_14605_14585 190.3560  602.125 2162.040 192.0560 393.233 167.2530 205.2040
## ORI_14607_14586  50.8436  508.431 1257.110 121.3890 270.123  44.8533 160.0710
## ORI_14609_14587 128.3570  428.027 1872.460  81.9234 364.656 120.2070 130.9900
## ORI_14617_14591  38.0807  463.439 3149.760  39.5398 388.133  24.6827 292.8470
## ORI_14623_14594  94.8679 1002.150 2188.980  67.4650 397.335 115.6250 525.4860
## ORI_14629_14597 135.4440  646.510 1724.950  30.1845 262.870 132.9620  38.0078
## ORI_14631_14598 159.8370  572.916 1038.340  57.0136 374.042 191.9080 164.6610
## ORI_14633_14599 142.6870  511.184 1763.710  47.0373 494.379 120.6890 230.9800
## ORI_14635_14600 164.5880  520.033 2048.530  69.5101 653.230 243.9270 229.8670
## ORI_14639_14602 393.6940  503.921  891.428  24.6827 526.110 336.4640 140.3930
##                  [,4134] [,4135] [,4136]  [,4137]  [,4138] [,4139] [,4140]
## ORI_10219_10218 141.3710 938.678 415.584 1255.520  30.7636 356.034 2616.30
## ORI_10735_10730 286.8690 283.948 352.469  519.724 395.2510 139.574 2248.82
## ORI_14605_14585 255.9480 225.556 402.793  349.822 240.5130 178.561 3057.48
## ORI_14607_14586 140.6580 382.879 343.198  428.738  31.4167 169.449 2867.62
## ORI_14609_14587 180.5460 469.095 377.661  372.679 160.4080 174.873 2443.92
## ORI_14617_14591 125.9650 339.951 484.788 1366.810  41.7506 348.260 2602.97
## ORI_14623_14594 240.1160 672.538 352.364  790.818 191.1310 365.018 3425.86
## ORI_14629_14597 243.5930 354.386 423.757  365.342 110.1940 117.342 2440.92
## ORI_14631_14598 214.9450 476.655 400.282  265.938 268.2490 123.971 2177.29
## ORI_14633_14599 251.0150 455.940 320.437  571.905 118.3750 190.016 2853.01
## ORI_14635_14600 242.8320 319.091 348.029  756.847 232.3710 261.141 2685.86
## ORI_14639_14602 336.7400 260.391 401.803  648.009 370.0420 132.552 2395.89
##                  [,4141]  [,4142] [,4143] [,4144] [,4145]  [,4146]  [,4147]
## ORI_10219_10218 3179.530 1339.930 214.765 259.855 582.980 344.6440  888.612
## ORI_10735_10730 1853.050 1320.840 302.333 336.230 575.314 252.1900  385.014
## ORI_14605_14585 2197.130  806.979 289.963 260.177 417.707 165.4670  221.459
## ORI_14607_14586 2018.130  925.941 212.366 496.324 219.621 378.3900  216.737
## ORI_14609_14587 1753.590  823.401 197.126 395.773 181.858 678.6550  433.848
## ORI_14617_14591 4083.410 1174.220 184.713 313.874 284.185 493.9560  751.464
## ORI_14623_14594 3127.360  950.323 306.841 262.150 528.749 220.2500  330.088
## ORI_14629_14597  638.801  655.879 238.299 274.023 277.546  92.5213  215.328
## ORI_14631_14598  849.852  837.214 250.722 394.130 405.031  94.4252  261.350
## ORI_14633_14599 2452.430 1200.060 333.251 229.200 283.728 425.6130  310.387
## ORI_14635_14600 2120.220 1089.620 331.218 189.033 373.035 123.8870  413.906
## ORI_14639_14602 2409.650  724.488 433.146 415.913 438.928  90.1828  225.027
##                  [,4148]   [,4149] [,4150]  [,4151]  [,4152]  [,4153]  [,4154]
## ORI_10219_10218  650.794  320.1780 259.860  24.6827 1040.690 1269.980 1009.320
## ORI_10735_10730  320.512  210.2260 360.672  41.8662  881.944  665.702  371.976
## ORI_14605_14585  470.226  358.8160 339.812 342.9140  908.127  816.363  641.436
## ORI_14607_14586 1643.510  934.0530 387.105 232.7670 1154.920 1105.490  707.293
## ORI_14609_14587  496.407  289.0310 428.544 235.6880 1141.090  806.747  807.810
## ORI_14617_14591  264.142  226.9120 316.185 237.0430 1598.860 1697.830 1156.720
```

```
## ORI_14623_14594  293.623  196.8140 342.873 363.0370 1072.190 1365.800  638.618
## ORI_14629_14597  231.549   83.4951 314.237 251.1570  827.367  689.887  281.213
## ORI_14631_14598  305.801  158.9870 362.529 297.4470  665.864 1003.140  687.212
## ORI_14633_14599  425.810  120.3380 256.322 191.9250 1118.610 1110.810  429.227
## ORI_14635_14600  196.449   78.8394 284.326 173.7220 1183.390 1364.590  521.313
## ORI_14639_14602  129.630   99.3945 277.066 218.2920  975.588  757.913  367.274
##                 [,4155]  [,4156]  [,4157]  [,4158]  [,4159]   [,4160]  [,4161]
## ORI_10219_10218 529.717 127.9670  96.6257  49.1861  881.552   24.6827  42.3355
## ORI_10735_10730 355.564 151.5460 352.2850 473.2020  175.940   75.1626  59.4381
## ORI_14605_14585 490.921 125.7230 137.8650 294.3110 1124.550   87.2234 109.6020
## ORI_14607_14586 441.414  52.9533  93.7462  92.1178  252.877   70.0570  51.3347
## ORI_14609_14587 595.342 122.5240 212.2390 214.2110  274.930   24.6827  24.9158
## ORI_14617_14591 706.064 138.3950 131.7410  52.5991  238.145  251.1870 111.5280
## ORI_14623_14594 621.289 127.6430 257.8110 288.8780  466.756  256.2800 138.4680
## ORI_14629_14597 512.028 404.4630 122.1290 217.5210  301.590   24.6827  57.0530
## ORI_14631_14598 574.777  95.6352 194.4990 254.6150  212.903  253.4210  91.0369
## ORI_14633_14599 314.390  97.0943 330.3460 201.4280  243.952  513.8640 131.2990
## ORI_14635_14600 562.639 140.8000 338.5120 369.6390  417.703 1098.5500 345.6270
## ORI_14639_14602 347.417  56.4752 359.3940 647.4730  256.291  425.7770 173.3040
##                   [,4162]  [,4163]  [,4164]  [,4165]  [,4166] [,4167]  [,4168]
## ORI_10219_10218  146.2940  730.894  68.3373 114.6830  24.6827 292.823  729.981
## ORI_10735_10730  153.5040 1439.650 203.8190 236.8240 139.0010 619.048 1272.920
## ORI_14605_14585  519.5800 1161.310 130.3820 167.2040  96.8068 458.215 1206.440
## ORI_14607_14586  455.0600  940.965  51.1579 106.2210  27.4558 456.025  832.752
## ORI_14609_14587  137.3130 1496.810 147.8100 174.2370 114.9800 601.969 1130.660
## ORI_14617_14591  249.0780  692.653  64.6000  98.7948  24.6827 473.302  595.773
## ORI_14623_14594  327.6980  736.347 147.6490 161.7560  91.9481 351.509  804.507
## ORI_14629_14597  319.8390 1318.320 114.9080 206.4630  47.8567 373.464  877.137
## ORI_14631_14598  250.0570  836.119 149.7840 151.6370  68.1082 568.469 1154.420
## ORI_14633_14599  196.8210 1067.060 133.8260 167.8270  79.4790 410.071  984.125
## ORI_14635_14600  644.2990  996.797 165.8990 184.2100 104.9010 361.031 1175.840
## ORI_14639_14602 1484.1200 1215.470 264.9950 240.4700  91.5419 349.475 1537.840
##                 [,4169]  [,4170]  [,4171] [,4172]  [,4173]  [,4174]  [,4175]
## ORI_10219_10218 551.021  88.0918  664.106 203.223  477.861 1714.610  653.281
## ORI_10735_10730 579.068 284.0400  698.668 542.126  548.197 1490.730  900.504
## ORI_14605_14585 628.238  70.0536  834.482 395.575  493.596 1369.920  813.358
## ORI_14607_14586 497.208 124.5560  695.564 425.820  529.749 1051.950  770.562
## ORI_14609_14587 782.813 136.5950  627.094 466.464  549.929  836.764 1101.180
## ORI_14617_14591 625.573  52.2749  672.057 301.700  494.901  632.752  819.281
## ORI_14623_14594 383.811  77.7517  827.894 219.209  438.484 1423.960  503.354
## ORI_14629_14597 367.533  80.4768  607.590 322.283  440.420 1190.680 1228.680
## ORI_14631_14598 792.270  91.1924  808.864 432.533  559.563  969.279 1365.330
## ORI_14633_14599 550.608 151.3470  735.549 324.535  750.038 1330.430  987.066
## ORI_14635_14600 542.458 109.7570  717.489 333.454  804.005 1317.360  762.000
## ORI_14639_14602 632.054 133.9440  582.966 203.332  589.883 1029.890  487.311
##                   [,4176] [,4177]   [,4178]  [,4179] [,4180] [,4181]  [,4182]
## ORI_10219_10218  117.5930 552.721   83.2881 154.1330 270.768 295.105  841.681
## ORI_10735_10730   73.6180 220.621   49.1484 229.0180 122.876 202.646  679.549
## ORI_14605_14585  130.1200 352.445   91.2898 227.5320 208.224 330.554  845.067
## ORI_14607_14586   89.6891 395.717  137.8390 277.1020 157.637 166.009  600.277
## ORI_14609_14587   85.2151 203.826   89.6261 112.7890 164.645 180.729  423.651
## ORI_14617_14591   75.9438 329.279   46.0820 133.3900 177.639 228.071  277.976
## ORI_14623_14594  119.0980 676.981   95.2011 234.6840 219.773 601.609 1037.910
## ORI_14629_14597  131.7930 526.962   84.4469 291.1230 251.839 355.775  562.448
```

```
## ORI_14631_14598  105.7360 353.131  118.5210 168.4540 176.089 286.239  449.451
## ORI_14633_14599  103.0820 457.641   88.4293 248.8480 219.564 296.911  785.326
## ORI_14635_14600  151.8760 570.755   92.2340 230.7630 234.224 450.925  850.836
## ORI_14639_14602  152.7960 455.861  106.1960 236.9240 241.054 261.529  598.281
##                 [,4183] [,4184]  [,4185]  [,4186] [,4187]   [,4188]  [,4189]
## ORI_10219_10218 297.211 275.178  888.093  291.613 278.323  848.1780  370.512
## ORI_10735_10730 286.001 178.167  854.578  465.574 189.565   66.4301  561.056
## ORI_14605_14585 466.986 224.378  827.380  506.334 214.212   38.7675  502.271
## ORI_14607_14586 352.225 195.850  778.414  671.877 355.901  283.2670 1257.990
## ORI_14609_14587 283.174 197.865 1192.040  622.409 264.222   89.7266  701.262
## ORI_14617_14591 287.961 171.507 1065.120  307.141 174.112  914.7370  175.170
## ORI_14623_14594 524.386 187.291  631.853  289.358 185.039  436.3910  256.069
## ORI_14629_14597 417.114 221.687  761.659  453.377 225.591   24.6827  257.858
## ORI_14631_14598 373.658 178.841  705.440  577.916 231.885  136.5890  672.166
## ORI_14633_14599 432.047 283.520  980.746  346.686 263.550   88.5701  472.351
## ORI_14635_14600 667.517 244.419  649.438  329.155 233.797  247.9480  306.660
## ORI_14639_14602 449.910 263.863  556.398  327.392 226.691 1040.9200  272.562
##                  [,4190]   [,4191]  [,4192]   [,4193]  [,4194]  [,4195] [,4196]
## ORI_10219_10218 348.8260  101.1140  383.702  104.4360  268.466  138.759 446.602
## ORI_10735_10730 248.7650  596.8930  591.767  686.0190  986.907 1081.830 476.442
## ORI_14605_14585 564.7030  358.8880  430.657  227.1460  546.066  379.968 427.111
## ORI_14607_14586 521.9660  625.8870  658.276  839.8610  663.971  975.721 314.466
## ORI_14609_14587 735.2430  466.5620  466.540  350.2310  743.976  753.886 283.479
## ORI_14617_14591 648.6890  236.2980  392.158   61.7174  396.054  243.351 244.120
## ORI_14623_14594 770.5870  110.9810  536.360  176.4420  362.851  202.874 543.201
## ORI_14629_14597 757.3200 1415.6400  922.960  277.6580  800.433 1490.450 468.946
## ORI_14631_14598 713.1850  588.7480  592.502  718.7940  637.636  867.090 474.735
## ORI_14633_14599 531.2450  186.6910  554.412  136.5150  331.520  403.702 382.928
## ORI_14635_14600 666.5560  110.0940  592.164  198.0970  410.650  282.046 390.108
## ORI_14639_14602 552.7060  558.5990  476.276  646.4970  249.587  747.527 416.725
##                 [,4197]  [,4198] [,4199]  [,4200]  [,4201]  [,4202]  [,4203]
## ORI_10219_10218 4014.83  792.071 3867.38 1407.240  173.626  406.680  429.912
## ORI_10735_10730 2741.50  759.898 4867.84  557.647  262.485  753.207  887.380
## ORI_14605_14585 4211.46  759.943 3952.47 1544.660  412.779  663.654  859.354
## ORI_14607_14586 4437.65  679.991 4168.03  913.186  200.801  770.659 1260.840
## ORI_14609_14587 3831.61  956.557 3969.22 1065.080  230.957 1043.190 1227.970
## ORI_14617_14591 2942.54  229.462 4237.29 1713.290  211.997  579.798  491.885
## ORI_14623_14594 2457.74  175.079 4547.31 1230.520  196.616  543.245  410.528
## ORI_14629_14597 3153.37  491.707 3512.82  703.037  202.740  723.796  598.372
## ORI_14631_14598 4265.37  564.571 4059.30  956.160  263.952  980.882 1112.470
## ORI_14633_14599 3005.24  483.415 5184.59  896.307  239.915 1043.780  710.397
## ORI_14635_14600 2464.61  437.467 4902.70 1156.010  259.775  605.792  584.437
## ORI_14639_14602 1412.74  296.062 4229.25  799.004  250.033  765.499  409.737
##                 [,4204]  [,4205]  [,4206] [,4207]  [,4208] [,4209]  [,4210]
## ORI_10219_10218 1426.43  365.323 2681.630 534.262 1325.440 441.228 1091.090
## ORI_10735_10730 2027.06 1359.700 3568.530 408.428 1173.750 326.955 1236.810
## ORI_14605_14585 1942.21  461.158 3929.850 309.408 1342.380 556.822 1231.000
## ORI_14607_14586 3303.24  539.093 5052.210 385.194 1164.490 638.085 1490.780
## ORI_14609_14587 2436.51  538.365 4249.800 269.149 1487.690 791.399 1352.160
## ORI_14617_14591 1345.97  609.296 1588.610 621.657 1459.580 613.409 1303.250
## ORI_14623_14594 1794.28  835.955 1417.840 358.552 1266.280 844.617 1018.830
## ORI_14629_14597 2354.83  775.291 1682.660 279.157  758.160 850.547 1187.110
## ORI_14631_14598 2872.02  631.052 3713.360 310.714 1549.650 690.804 1379.050
## ORI_14633_14599 2499.10 1448.040 3110.990 492.356 1405.940 543.946 1033.220
```

```
## ORI_14635_14600 2155.74 1157.120 2712.410 295.076 1420.590 841.462  903.265
## ORI_14639_14602 2022.24 1236.330 1128.090 260.251 1518.140 716.737  874.191
##                  [,4211]  [,4212] [,4213]  [,4214]  [,4215] [,4216]  [,4217]
## ORI_10219_10218  794.426  781.202 432.991  209.156  320.721 598.186  45.5265
## ORI_10735_10730  646.922  655.727 680.789  596.122  992.369 351.508 161.0470
## ORI_14605_14585 1128.980  460.443 267.853  232.446  630.383 710.636 279.8480
## ORI_14607_14586  967.700  605.986 231.521  443.815  666.181 470.805 120.2250
## ORI_14609_14587 1009.620  767.740 505.098  357.744  858.637 386.257 190.1280
## ORI_14617_14591  393.213  877.876 283.960  141.791  356.374 406.998 129.1090
## ORI_14623_14594  360.595  600.064 390.603  183.842  401.134 771.267 119.4770
## ORI_14629_14597  778.789  331.407 314.590  561.127  365.173 483.673 108.1060
## ORI_14631_14598  742.435  464.378 489.284  655.319  721.008 503.197 112.6710
## ORI_14633_14599  523.330  480.851 233.208  428.087  799.979 670.116 221.9070
## ORI_14635_14600  513.546  584.309 652.034  241.338  718.405 782.934  58.7597
## ORI_14639_14602  586.093  515.361 592.103 1116.770  849.744 675.074  67.7916
##                 [,4218]  [,4219]  [,4220]  [,4221]   [,4222]  [,4223]  [,4224]
## ORI_10219_10218 588.508 338.7900  367.707 179.3020  572.0660 1157.720 1577.720
## ORI_10735_10730 259.101  35.9262  314.053 370.5850  113.9840 1037.230 3754.570
## ORI_14605_14585 481.194 203.3740  357.984 468.6610   69.1455  855.702 1403.250
## ORI_14607_14586 582.213 234.1650  957.207 841.7260  433.8100  590.831 3516.890
## ORI_14609_14587 575.795  24.6827  448.640 576.3820  266.0640  574.105 4029.250
## ORI_14617_14591 682.031  38.9119  189.473 230.4730  817.9220  664.859 1796.320
## ORI_14623_14594 528.244 166.6400  415.542 249.0640  462.4980  767.900  806.306
## ORI_14629_14597 448.765  93.4280  199.201 164.4710  104.8720  757.980 3409.250
## ORI_14631_14598 500.155 195.9750  321.294 429.4450  203.7810  413.140 3186.950
## ORI_14633_14599 484.339 241.5000  371.345 261.3950  204.5250  930.346 2201.090
## ORI_14635_14600 520.504 143.8020  353.116 163.9880  304.7030  953.054  894.387
## ORI_14639_14602 428.872 141.7350  219.962 126.8630  188.2360  756.046 2338.510
##                 [,4225]  [,4226] [,4227]  [,4228] [,4229] [,4230]  [,4231]
## ORI_10219_10218 4184.74 1082.480 546.409  719.401 350.863 300.354  193.400
## ORI_10735_10730 3435.22  562.531 543.050  460.367 705.723 184.275  313.532
## ORI_14605_14585 3301.72  472.477 655.340  341.207 456.533 301.412  242.905
## ORI_14607_14586 3222.63  519.358 623.285  640.688 529.813 284.920  366.423
## ORI_14609_14587 3710.30  292.694 640.887  468.514 474.323 178.310  270.045
## ORI_14617_14591 3867.49  736.697 437.558  513.769 373.219 164.214  257.923
## ORI_14623_14594 3326.19  602.920 729.097  361.816 412.325 297.502  249.082
## ORI_14629_14597 3942.98  428.026 790.891  387.807 415.689 212.248  295.338
## ORI_14631_14598 3555.68  539.793 615.223  432.380 560.820 205.029  310.261
## ORI_14633_14599 4867.16  784.944 781.110  325.024 390.190 212.729  238.127
## ORI_14635_14600 3712.81  806.920 790.803  302.867 447.519 291.994  282.461
## ORI_14639_14602 3870.59  738.455 752.450  192.010 351.499 304.320  314.184
##                  [,4232]  [,4233]  [,4234]  [,4235]   [,4236]  [,4237]  [,4238]
## ORI_10219_10218 139.9230  591.070  738.377 1354.020  986.6230 1196.310 170.4600
## ORI_10735_10730 259.2710  883.166  506.744 6007.320 2574.2100 1665.270 250.7320
## ORI_14605_14585 190.1850  758.540  581.643 2617.400 1521.0500 1627.670 549.7970
## ORI_14607_14586 110.6190  606.219  700.390 3673.740 2410.1200 1601.230 586.0720
## ORI_14609_14587 301.1010  855.228  782.807 3273.230 2438.9400 1865.330 301.3440
## ORI_14617_14591  81.6476  865.966  703.343  899.539  757.0120  716.709 158.3350
## ORI_14623_14594  69.7533  750.491  629.647  602.284  613.8460  912.729  95.5287
## ORI_14629_14597 150.9340  909.199  519.398 1134.730 3970.1900 2438.440 137.4620
## ORI_14631_14598 330.2450 1059.390  885.189 3089.820 1827.9200 1348.870 231.5790
## ORI_14633_14599 100.8620  716.602  478.640  599.178  348.4660  977.473 206.5020
## ORI_14635_14600  97.1035  815.177  385.534  532.574  272.1980  852.640 142.2720
## ORI_14639_14602  93.0622 1044.500  397.875 2464.810 1022.0500 1125.850  89.1492
```

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##                   [,4239]  [,4240]  [,4241] [,4242]  [,4243]  [,4244]   [,4245]
## ORI_10219_10218  461.3210 289.8620  194.548 429.114  417.257  762.436  966.8540
## ORI_10735_10730   24.6827 281.3060  491.655 355.844  631.521 1031.460  117.9320
## ORI_14605_14585  151.2570 170.5640  952.839 498.855  494.431  897.771  634.3950
## ORI_14607_14586  320.7740 196.0630 1091.650 508.387  788.134 1414.370  162.4510
## ORI_14609_14587  496.0290 105.9180  377.365 397.318  871.474 1029.250  346.1210
## ORI_14617_14591  601.2470 157.0160  230.196 385.771  470.365  520.093  251.2960
## ORI_14623_14594  336.5440 261.6990  157.287 441.046  287.396  356.428  238.0400
## ORI_14629_14597 1778.1400 123.3390  334.762 491.748  669.628  754.851  113.5860
## ORI_14631_14598  462.6700 150.7580  678.671 493.388  692.244 1184.710  103.7750
## ORI_14633_14599   86.2498 168.3550  301.944 416.416  395.105  784.539  123.6910
## ORI_14635_14600   86.9111 189.1550  380.882 350.578  627.631  374.406  278.6650
## ORI_14639_14602   26.3928 193.0230  211.062 350.711  205.955  734.466   54.1982
##                   [,4246] [,4247]   [,4248]  [,4249]  [,4250] [,4251]  [,4252]
## ORI_10219_10218  410.7200 412.902   24.6827  53.9537  87.4580 361.154  78.9542
## ORI_10735_10730  596.4260 248.481  499.3270 122.1610 190.1610 304.415 128.3520
## ORI_14605_14585  257.4150 327.744   24.6827  73.0730 146.9970 395.703 278.3400
## ORI_14607_14586  219.3480 300.752  141.4160  48.1192  66.9360 449.786 483.9500
## ORI_14609_14587  150.4810 237.460  277.1160 243.5150 169.0530 282.423 189.6340
## ORI_14617_14591  485.3590 409.386   24.6827  64.0075  79.3514 162.657  87.5431
## ORI_14623_14594  463.8430 433.808   24.6827  66.4047  92.4990 357.903 106.1980
## ORI_14629_14597  193.7010 357.691   55.9484  26.4055 106.4820 327.169  73.0471
## ORI_14631_14598  243.1350 272.894  447.9940 209.1320 158.3150 348.944 164.1500
## ORI_14633_14599  184.9630 366.376   24.6827 129.8080  93.6592 411.840 159.0320
## ORI_14635_14600  208.0760 370.295   24.6827 131.1640 106.1000 361.004 100.9790
## ORI_14639_14602 1678.0400 443.329   60.9833  25.1003 141.8680 382.995  80.4554
##                  [,4253]  [,4254] [,4255]  [,4256] [,4257]  [,4258] [,4259]
## ORI_10219_10218 1015.770 107.1830 725.130  455.232 360.642 276.4120 525.283
## ORI_10735_10730  464.282 178.0620 497.731 1530.520 282.419 130.5820 622.898
## ORI_14605_14585  908.304 395.6610 908.671 1087.740 287.029 163.0860 454.389
## ORI_14607_14586  793.420 432.3670 649.865 1227.100 256.764 161.3730 342.052
## ORI_14609_14587  594.923 259.8870 666.605 1404.080 202.732 171.2520 650.170
## ORI_14617_14591  978.120  58.3611 545.015  645.877 215.160 252.4540 657.700
## ORI_14623_14594  656.802 120.0480 646.161  620.562 330.100 248.8300 407.785
## ORI_14629_14597  804.834 162.7880 447.484 3335.890 266.745 160.8960 483.781
## ORI_14631_14598  457.582 218.3370 656.604 1513.330 247.479 152.9010 636.951
## ORI_14633_14599  670.780 193.2960 752.648  908.251 267.420 140.7690 609.524
## ORI_14635_14600  623.952 174.7110 604.956  679.318 214.204 176.7590 419.654
## ORI_14639_14602  593.342 130.2780 437.164  855.698 269.340 147.9930 515.129
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## ORI_10219_10218  959.523 486.335  54.5054  695.504 388.363  868.539 141.8420
## ORI_10735_10730  860.415 101.212 160.1900 1139.440 296.961 1138.700  79.1769
## ORI_14605_14585 2023.680 259.541  92.4248 1197.740 298.200 1284.590 129.6030
## ORI_14607_14586 1825.020 120.659  62.4361 1589.030 533.073 1354.220 115.0250
## ORI_14609_14587 1213.230 180.678 381.2720 1137.520 598.404 1584.170 208.2310
## ORI_14617_14591  913.380 179.945  53.6957  352.762 706.054 1422.920 268.8870
## ORI_14623_14594  655.850 214.467 109.6740  349.726 405.435 1218.070 165.8660
## ORI_14629_14597 1526.360 155.813  68.8938  764.524 549.652 1100.510 190.0070
## ORI_14631_14598 1155.100 115.663 104.9250 1027.550 464.003 1131.030  57.9117
## ORI_14633_14599  677.167 167.150 123.7490  298.244 480.674 1725.490 143.0450
## ORI_14635_14600 1113.690 263.377 108.8030  311.325 587.513 1521.030 127.6420
## ORI_14639_14602  563.039 132.512  41.5439  814.623 421.794 1669.900  74.1865
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## ORI_10219_10218 116.8860 245.553 190.370  351.734  107.0510  88.9832  96.9292
```

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## ORI_10735_10730 193.3750 516.277 408.511  937.850  451.1270 470.5400 156.5640
## ORI_14605_14585 159.4590 329.626 232.541  737.908  266.2530 185.9300 133.3400
## ORI_14607_14586 174.7710 289.444 284.321 1078.740  124.0230 178.6870  64.6347
## ORI_14609_14587 196.6480 430.835 412.524  631.347  200.2700 213.9960  92.4860
## ORI_14617_14591  90.0622 242.111 199.349  330.943  112.6790 261.1960  59.8153
## ORI_14623_14594  72.6693 201.850 229.559  411.082  232.8890 252.9550  92.2467
## ORI_14629_14597 220.7920 429.205 210.348  699.615  170.7930 200.4800 114.3950
## ORI_14631_14598 232.7100 325.821 579.784  712.636  238.0920 171.9050 156.5970
## ORI_14633_14599 162.3170 326.976 233.209  236.572  261.5460 178.5900 149.2640
## ORI_14635_14600 114.6210 265.679 221.754  362.350  286.8590 236.2300  95.8720
## ORI_14639_14602 219.4850 214.609 486.528  544.552  632.4060 797.3360 624.3960
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## ORI_10219_10218  720.900 2735.3900 3009.530 366.686  283.631  862.519 422.175
## ORI_10735_10730 1227.650  293.6750 2372.540 519.002  486.093  500.655 478.895
## ORI_14605_14585 1011.820  668.2430 1291.180 264.646  311.005  883.974 443.842
## ORI_14607_14586 1554.180 1231.7800 2085.300 305.593  782.251  834.075 400.560
## ORI_14609_14587 1504.430 1117.6100 1951.790 353.786  646.452  618.722 618.469
## ORI_14617_14591  570.629 2990.1500 2229.870 218.577  223.352  417.688 362.234
## ORI_14623_14594  544.759 1637.2800 1911.430 462.004  237.640  820.667 324.540
## ORI_14629_14597  980.279  286.1180 2240.450 669.456  834.398  644.119 531.306
## ORI_14631_14598 1536.450 2078.6600 1461.750 443.144  428.685  668.452 718.540
## ORI_14633_14599 1016.250  617.7010 1759.390 320.661  375.318  840.539 545.754
## ORI_14635_14600  353.709  940.4370 1485.220 532.096  366.880  724.050 511.355
## ORI_14639_14602 1561.050  397.1700 1031.160 534.163  407.153  665.633 453.080
##                  [,4281] [,4282]  [,4283] [,4284]  [,4285]  [,4286]  [,4287]
## ORI_10219_10218  284.326 301.811 282.6380 507.663  635.531 1169.280 363.6690
## ORI_10735_10730  296.805 413.598 192.4880 267.158  452.203  908.950 242.5120
## ORI_14605_14585  382.511 312.647 380.7890 396.155  728.924  941.787 225.3490
## ORI_14607_14586   85.146 349.872 206.9020 378.879  411.198 1013.480 357.0940
## ORI_14609_14587  322.751 525.838 589.5940 344.094  637.098 1063.000 370.6510
## ORI_14617_14591  395.376 456.286 349.4400 357.737  799.792 1481.080  99.8353
## ORI_14623_14594  623.212 265.816 342.1590 478.335  652.946 1098.540 200.9190
## ORI_14629_14597  196.490 246.655 162.8090 429.773  802.432 1528.630 256.5210
## ORI_14631_14598  277.533 465.859 236.9830 397.908  736.302 1070.650 498.8840
## ORI_14633_14599  582.736 448.674 196.8080 436.591  699.968 1774.640 234.1560
## ORI_14635_14600  789.352 408.389 253.0910 427.347  826.647 1061.170 168.0710
## ORI_14639_14602  395.444 420.290 167.7840 307.873  541.590 1264.300 226.7430
##                  [,4288]  [,4289] [,4290]  [,4291] [,4292]  [,4293] [,4294]
## ORI_10219_10218  571.607 483.7620 1072.98 179.5810 422.353  416.167 159.176
## ORI_10735_10730 1087.040 165.5260 1748.41 216.2310 350.756  304.449 250.949
## ORI_14605_14585  663.110  50.8141 2068.87 168.0500 388.434  355.318 225.140
## ORI_14607_14586  676.762 129.7570 1791.37 101.2070 278.064  359.094 138.973
## ORI_14609_14587  906.937  87.0153 2014.01 206.4290 247.087  288.274 135.556
## ORI_14617_14591  826.735 516.4680 2364.72  98.6191 294.305  244.047 122.433
## ORI_14623_14594  726.539 156.9490 2438.31 149.0660 433.645  387.832 233.557
## ORI_14629_14597  655.513  53.5404 2378.23 236.1450 445.554  321.746 169.700
## ORI_14631_14598  911.195  47.5178 1888.44 175.1760 342.750  328.859 244.948
## ORI_14633_14599  700.808 106.3090 2048.69 168.5640 408.819  489.265 206.142
## ORI_14635_14600  790.107 166.1170 3011.86 141.7320 386.616  434.262 236.440
## ORI_14639_14602  854.592  78.1286 3049.48 198.0800 383.863  390.864 491.449
##                  [,4295]  [,4296] [,4297]  [,4298]  [,4299]  [,4300] [,4301]
## ORI_10219_10218  264.462 1658.970 150.979 1109.240 487.1300 1060.010 371.572
## ORI_10735_10730  345.015 1390.480 136.250  886.587 262.9530  628.395 412.558
## ORI_14605_14585  603.753 1243.670 222.488  895.220 538.3360 1210.280 386.547
```

```
## ORI_14607_14586  574.072 1377.950 142.982  858.657 513.8480 1068.150 274.685
## ORI_14609_14587  330.622 1409.040 235.526  830.883 554.0520 1279.450 457.323
## ORI_14617_14591  366.889 1727.320 186.368  808.251 389.0040 1008.450 261.835
## ORI_14623_14594  556.861 1212.170 235.840  612.816 673.1350 1405.100 535.856
## ORI_14629_14597  767.534 1313.740 210.478 2063.440 657.2970 1584.160 411.080
## ORI_14631_14598  516.318 1370.610 170.629  943.078 510.9440 1260.550 430.683
## ORI_14633_14599  503.903 1617.850 174.254  984.780 474.2380 1131.630 514.350
## ORI_14635_14600  551.189 1173.220 298.285  953.912 625.9200 1321.880 498.085
## ORI_14639_14602  486.762 1398.430 166.061 1398.850 571.5990 1084.820 420.509
##                   [,4302]   [,4303]  [,4304] [,4305] [,4306] [,4307]  [,4308]
## ORI_10219_10218 286.3160  686.5610 449.6970 681.748 301.174 175.835  756.797
## ORI_10735_10730 108.4540  368.5820 189.3820 695.053 316.765 426.299  361.112
## ORI_14605_14585 164.7290  508.2640 142.2660 526.611 308.863 372.881  349.810
## ORI_14607_14586  93.3079  417.5020 340.1290 791.681 436.955 291.103  520.524
## ORI_14609_14587 143.2900  661.3130 190.8120 626.581 238.754 273.595  651.023
## ORI_14617_14591 207.5380  754.9010 460.4390 611.865 330.250 406.250  804.422
## ORI_14623_14594 145.1180  525.2100 355.6910 504.327 432.659 467.290  569.224
## ORI_14629_14597  98.7104  336.1290 110.5960 942.918 239.595 394.163  601.374
## ORI_14631_14598 122.3320  540.1740  88.5571 736.454 286.105 494.842  464.638
## ORI_14633_14599 151.8000  728.2570 234.8280 643.099 253.672 415.172  302.222
## ORI_14635_14600 173.5460  567.8190 252.7540 594.240 296.269 555.031  305.054
## ORI_14639_14602 130.4450  258.8750 279.8430 408.924 295.783 680.483  139.447
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## ORI_10219_10218 479.902  233.435 165.0990 1076.730 144.3780 469.509 401.4340
## ORI_10735_10730 509.266 1010.190 208.9230  817.869  24.6827 206.600 456.7990
## ORI_14605_14585 596.657 1352.950 141.1020  923.579  50.8694 222.092 421.1760
## ORI_14607_14586 451.753  354.952 192.4810  812.203  36.2040 259.048 253.2050
## ORI_14609_14587 515.250  755.839 375.1760  866.598  45.2503 222.938 508.7400
## ORI_14617_14591 442.225 2224.590 214.0240  814.896 210.7320 474.457 598.9020
## ORI_14623_14594 471.569 2114.640 135.8490  943.042  95.9978 315.010 444.2080
## ORI_14629_14597 562.041 1487.190 144.0110 1094.860  24.6827 231.670 346.3110
## ORI_14631_14598 583.493 1682.190 391.9720  817.857  40.2363 208.232 318.6380
## ORI_14633_14599 407.823 1760.240 318.1280 1052.490  24.6827 241.692 643.8500
## ORI_14635_14600 550.604 2637.210 111.0160 1083.210  24.6827 306.419 272.1310
## ORI_14639_14602 647.536 1296.920 119.9980  835.889  24.6827 203.185 351.4340
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## ORI_10219_10218 515.246 220.4690 378.5390 2208.93 284.5500 128.5910  975.342
## ORI_10735_10730 540.419 145.9870 308.0250 1215.41 123.1360 109.9210  515.044
## ORI_14605_14585 418.341 293.0020 411.6980 1798.23 153.4160 109.3020  792.612
## ORI_14607_14586 455.050 448.6900 238.0500 1737.82 127.0760  74.2081  830.679
## ORI_14609_14587 606.738 381.7070 199.9850 1618.05 194.1560 159.0870  585.791
## ORI_14617_14591 300.750 222.1450 211.3000 2255.06 262.2110  72.8059  653.076
## ORI_14623_14594 318.003 138.7010 631.0740 1707.06 245.2580 114.4140 1078.200
## ORI_14629_14597 332.694 170.9960 358.6710 1592.87  99.1540 142.3000  832.389
## ORI_14631_14598 582.981 355.8240 277.0380 1867.23 255.6140  93.6365  779.882
## ORI_14633_14599 537.959 225.5660 557.5460 2148.88 219.8010 179.5430  923.420
## ORI_14635_14600 302.626 180.3660 594.6730 1818.66 214.7610 160.2490 1107.140
## ORI_14639_14602 273.669 106.7100 373.2670 1315.09 732.1260 151.2500  918.337
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## ORI_10219_10218 144.8620 147.7550 242.498 384.6110  98.9443 173.2680 2662.18
## ORI_10735_10730 407.6380 124.0230 438.967 138.2100 313.1170 171.4460 2253.69
## ORI_14605_14585 429.0450 162.9340 443.442 287.3210 161.3420 187.2080 2529.19
## ORI_14607_14586  92.7347  71.7743 390.941 299.7040 107.4600  91.1651 2793.58
## ORI_14609_14587 238.6210 105.7110 500.574 378.0040 253.9910 117.4750 3062.57
```

```
## ORI_14617_14591 119.3300 201.7160 228.236 248.4430  83.3745 144.6960 3173.81
## ORI_14623_14594 134.9940 229.1820 324.600 387.5090 106.3030 260.7000 2866.28
## ORI_14629_14597 274.5090  59.3610 391.614 343.8570 134.4420 152.1200 2610.39
## ORI_14631_14598 567.1260  98.4346 505.861 278.6820 223.3920 331.2360 2333.00
## ORI_14633_14599 220.3820 179.6390 410.543 320.8050 156.5250 247.6930 2485.84
## ORI_14635_14600 198.9810 351.1490 637.971 367.0390 178.6190 263.4670 2132.83
## ORI_14639_14602 116.1020 167.6660 287.194 309.0150 111.5170 228.1270 2328.60
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## ORI_10219_10218 337.413  761.552 306.912 1160.730 239.419  549.6200 129.4100
## ORI_10735_10730 362.235 1126.390 254.068 1975.200 199.027  670.1610 103.3690
## ORI_14605_14585 260.752  813.816 354.857  963.415 190.722  363.8970 255.4810
## ORI_14607_14586 284.282 1071.670 330.981 1355.500 201.754  839.1180  74.1197
## ORI_14609_14587 333.490  656.620 460.937 1737.220 257.212  751.7000 270.0710
## ORI_14617_14591 245.803 1031.080 327.708 1160.980 217.900  568.4520  60.0057
## ORI_14623_14594 356.089  689.701 184.693 1290.990 156.403  650.1560  38.0459
## ORI_14629_14597 509.158 1043.410 279.646 1908.440 199.306  611.8510  62.9433
## ORI_14631_14598 425.202  994.485 325.937 1743.790 207.325  708.1100 223.1050
## ORI_14633_14599 425.813  660.132 251.025 1684.760 262.591  447.4070  72.8419
## ORI_14635_14600 358.451  511.415 286.682 1591.070 327.223  370.4380  59.6231
## ORI_14639_14602 364.339  806.705 220.648 1234.220 290.750  317.9790  24.6827
##                  [,4337]  [,4338]  [,4339]  [,4340]  [,4341] [,4342]  [,4343]
## ORI_10219_10218  868.940  626.773 127.2630  582.214  581.157 441.251  705.128
## ORI_10735_10730  760.836  851.393 258.1290  909.855  452.794 408.928 1414.240
## ORI_14605_14585  810.548  869.689 182.9450 1052.710  689.962 363.636 1057.260
## ORI_14607_14586  977.850 1094.910 358.6070  945.739  413.635 298.741 1294.690
## ORI_14609_14587  867.637  927.241 248.7840 1097.570  445.128 291.072 1606.290
## ORI_14617_14591 1149.190  763.384 146.6690  804.104  382.161 311.526  954.848
## ORI_14623_14594  846.423  848.481 170.6190  790.508  576.950 612.048 1090.700
## ORI_14629_14597 1075.840  772.430 339.8330  905.003  288.548 486.564 1634.730
## ORI_14631_14598  754.397  852.087 260.1680  839.896  472.927 386.034 1417.990
## ORI_14633_14599  756.916 1163.550 193.0140  901.268  778.396 475.224 1296.610
## ORI_14635_14600  847.967 1191.210 183.3890  825.958  485.506 411.069  966.695
## ORI_14639_14602  789.629  803.780 181.6180  832.683  443.900 426.207 1338.740
##                 [,4344]  [,4345] [,4346]  [,4347]  [,4348] [,4349]  [,4350]
## ORI_10219_10218 371.203  756.429 384.650 1010.170  549.986 555.559 220.3020
## ORI_10735_10730 571.695  696.391 524.902  934.580  764.906 509.412 156.1540
## ORI_14605_14585 362.350  764.123 523.145 1026.130  825.232 398.832 106.5580
## ORI_14607_14586 533.669  875.111 464.082  914.299  572.192 440.846 158.5740
## ORI_14609_14587 430.242  552.605 686.681 1335.700  915.529 495.539 286.5040
## ORI_14617_14591 362.735  491.408 303.945  874.035  541.231 422.431 383.8610
## ORI_14623_14594 197.604 1153.170 332.959  664.617  586.873 316.228 266.0130
## ORI_14629_14597 255.715 1076.510 498.447  977.069  777.514 248.073 820.7720
## ORI_14631_14598 353.752  637.960 595.729  999.116  702.915 447.547 185.2390
## ORI_14633_14599 312.035  945.991 706.079 1288.900  825.289 384.414 291.8630
## ORI_14635_14600 212.829  893.306 497.766  661.020  897.365 420.807 302.0380
## ORI_14639_14602 118.027  668.535 385.208  676.313  559.097 306.169 415.3670
##                  [,4351] [,4352] [,4353] [,4354] [,4355] [,4356]  [,4357]
## ORI_10219_10218 232.2800 243.363 526.608 629.343 344.971 191.012  859.865
## ORI_10735_10730 430.2770 484.642 364.028 853.882 624.984 222.193 1238.860
## ORI_14605_14585 236.3580 315.086 450.028 664.545 434.838 241.402 1276.200
## ORI_14607_14586 544.8820 510.447 391.881 825.047 369.707 268.629 1099.050
## ORI_14609_14587 758.9140 490.822 333.628 719.491 515.485 326.017 1389.170
## ORI_14617_14591 148.9390 180.878 341.913 641.020 632.294 166.316 1426.030
## ORI_14623_14594 151.6210 272.983 403.280 563.941 529.246 196.093 1002.680
```

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## ORI_14629_14597 477.9750 405.841 380.618 755.544 445.838 270.373 1811.780
## ORI_14631_14598 600.0960 596.178 330.011 877.013 487.056 192.479 1748.830
## ORI_14633_14599 116.2200 508.823 476.099 564.975 452.871 291.086 1429.750
## ORI_14635_14600 105.7550 441.210 497.565 483.355 563.938 269.331 1017.510
## ORI_14639_14602 311.9410 541.873 500.967 491.768 401.520 211.653 1289.240
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## ORI_10219_10218  841.744  65.8850 466.319  81.1133 632.412  584.448 147.249
## ORI_10735_10730  769.648 296.7440 177.346 153.4040 478.105  647.231 277.607
## ORI_14605_14585  903.190  78.0368 406.874 163.3760 638.748  645.156 250.415
## ORI_14607_14586  936.217 545.1550 620.469 155.9210 456.415  604.979 235.615
## ORI_14609_14587  994.738 121.3230 256.630 200.2340 626.823  603.599 342.424
## ORI_14617_14591  820.586  24.6827 267.565 214.9530 662.630  587.132 148.503
## ORI_14623_14594  712.486  49.0212 387.997 104.8380 710.413  737.117 196.601
## ORI_14629_14597 1180.370  91.9293 503.078 211.2010 656.162  435.993 284.610
## ORI_14631_14598 1467.840 219.3110 367.223 287.3130 575.492  863.714 308.667
## ORI_14633_14599 1000.030  74.2159 500.458 145.8420 608.981  768.862 299.403
## ORI_14635_14600  791.834  37.2755 338.192 137.3970 635.251  849.088 257.582
## ORI_14639_14602  883.896 137.0140 311.520 177.7280 544.432  825.026 194.985
##                 [,4365]  [,4366]  [,4367]  [,4368]  [,4369] [,4370] [,4371]
## ORI_10219_10218 295.964 191.0720  443.887 149.2030 220.6880 686.431 337.240
## ORI_10735_10730 239.023 132.9910  791.571 341.0360 121.3290 853.892 155.407
## ORI_14605_14585 289.802  95.7537  515.843 188.4450 169.8210 255.300 309.843
## ORI_14607_14586 232.868  86.8064  560.505  53.9570 240.3970 417.026 205.624
## ORI_14609_14587 471.323 323.4420  833.048 294.6110 270.2180 329.864 272.825
## ORI_14617_14591 349.852 161.0270  615.030 139.4690 159.4380 241.411 146.395
## ORI_14623_14594 287.883  99.2152  467.642 187.5810 137.2070 373.709 407.929
## ORI_14629_14597 176.659  61.9661  496.346  61.4193 216.4170 433.632 396.738
## ORI_14631_14598 403.246 131.4230  751.939 189.8770 238.7710 321.199 297.710
## ORI_14633_14599 319.088 119.5840  728.119 299.6440 231.9790 504.048 348.831
## ORI_14635_14600 293.347 158.0330  615.410 310.7030  78.6644 299.032 401.549
## ORI_14639_14602 201.731  61.5323  818.195 184.9280  63.3445 331.653 386.833
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## ORI_10219_10218  86.5163 277.111 166.5410 131.0850 455.485 365.112 354.193
## ORI_10735_10730  86.1761 531.992 135.0880 311.9620 325.747 468.098 631.599
## ORI_14605_14585 124.2160 368.725 175.4140 214.8060 481.533 337.253 422.281
## ORI_14607_14586 251.7240 306.448 162.4560 125.9820 319.421 289.394 541.441
## ORI_14609_14587  92.9295 392.870 352.2240 203.2230 356.440 258.246 555.530
## ORI_14617_14591  84.2145 281.551 165.3110 153.7030 735.552 259.822 380.701
## ORI_14623_14594 159.5960 322.438 136.0640 175.9570 430.329 415.732 280.868
## ORI_14629_14597 145.0320 436.915 131.8150 161.9870 393.958 345.776 263.664
## ORI_14631_14598  99.2525 737.875 203.0200 290.5030 500.784 323.074 614.289
## ORI_14633_14599 139.4610 369.151  83.3911 215.9620 248.834 428.963 445.087
## ORI_14635_14600  75.4299 609.776 111.6490 238.0280 444.110 366.913 474.863
## ORI_14639_14602 113.5030 417.484 130.9520 155.6570 300.750 423.858 192.024
##                 [,4379] [,4380]  [,4381]  [,4382] [,4383] [,4384]  [,4385]
## ORI_10219_10218 701.356 248.400  688.970  779.770 450.293 251.182 140.2780
## ORI_10735_10730 651.050 438.947  335.924  654.687 316.073 410.270 158.5950
## ORI_14605_14585 615.773 259.715  832.895  530.295 423.996 430.922 167.4480
## ORI_14607_14586 476.052 296.809  700.074  736.915 298.399 584.328 120.5500
## ORI_14609_14587 678.531 445.577  756.995  666.161 187.055 456.771 179.4590
## ORI_14617_14591 639.714 296.980  362.575  622.883 182.960 185.668 194.9460
## ORI_14623_14594 608.019 223.112  549.707  467.029 532.067 209.300 160.5290
## ORI_14629_14597 640.748 206.069  538.763  649.041 406.015 286.198 175.0370
## ORI_14631_14598 657.213 346.810  375.300  709.756 292.333 518.325 156.3260
```

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## ORI_14633_14599 650.369 469.224  615.870  337.577 398.632 284.147 217.1420
## ORI_14635_14600 623.800 472.399  811.530  416.478 384.562 185.054 239.0960
## ORI_14639_14602 711.687 302.467  553.492  646.138 267.669 378.795 172.5030
##                  [,4386] [,4387]  [,4388]   [,4389]   [,4390]   [,4391]
## ORI_10219_10218  44.4709 262.938  352.940   84.2083   24.6827   65.1133
## ORI_10735_10730 102.7290 502.258  415.281  214.4790  145.6490  924.8330
## ORI_14605_14585  91.3446 397.155  822.549   70.7356  118.7180  250.5100
## ORI_14607_14586 225.5750 554.995  897.881  182.2590  387.0370  646.4940
## ORI_14609_14587 354.7180 565.786 1186.770  192.5210  306.3490  243.0150
## ORI_14617_14591  50.7877 241.906 1133.740   51.6614   24.6827   24.6827
## ORI_14623_14594  70.1557 266.515  822.942   80.5178   24.6827  109.0600
## ORI_14629_14597  57.8992 367.889  390.605   61.1299  120.6910  168.9890
## ORI_14631_14598 202.3650 552.229  900.406  542.5990  324.1420  643.8730
## ORI_14633_14599 115.6200 194.275  636.090   78.4392   24.6827  207.4300
## ORI_14635_14600  74.8008 265.517  893.711   71.1152   24.6827  138.2910
## ORI_14639_14602  48.6724 517.365  273.881  140.8470  200.0820  245.4520
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## ORI_10219_10218  804.412 349.379 446.796  670.7500 535.380 625.072  319.810
## ORI_10735_10730 1541.640 235.730 608.742  833.9190 286.833 341.918 1323.920
## ORI_14605_14585 1172.090 183.645 271.425  547.6460 649.939 494.081 1505.790
## ORI_14607_14586  750.334 184.633 227.973  368.2710 557.008 534.672  306.060
## ORI_14609_14587 1549.880 351.411 236.819  503.7180 575.855 638.818 1758.030
## ORI_14617_14591  989.209 588.681 404.869 1025.4800 708.019 457.546  446.700
## ORI_14623_14594 1141.440 278.562 360.689  844.5630 609.902 421.068  287.925
## ORI_14629_14597 2193.600 323.558 425.610  894.6830 331.413 404.467  848.728
## ORI_14631_14598 1407.100 231.573 293.229  814.4880 524.586 436.709 1392.980
## ORI_14633_14599  908.725 305.551 326.255  392.2640 344.873 498.213  274.173
## ORI_14635_14600  916.304 249.435 303.220  757.3730 455.790 348.649  425.116
## ORI_14639_14602  829.075 480.307 264.002  979.4490 306.714 309.283  551.747
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## ORI_10219_10218 297.1980  311.719 1452.810  934.9010 320.237  346.710  33.4963
## ORI_10735_10730 310.0640 1016.280 1646.410  455.1570 396.531  937.568 204.2270
## ORI_14605_14585 221.1970  588.756 1186.050  252.4380 380.278  868.355  95.9211
## ORI_14607_14586 212.3770  827.022 1326.910  588.1680 627.778 1530.040 199.1930
## ORI_14609_14587 186.1080  960.492 1064.910 1198.2200 485.567  953.130 346.3320
## ORI_14617_14591  91.9117  351.899  966.469 1192.8100 244.135  145.032  38.3862
## ORI_14623_14594 246.1500  480.982 1305.730  899.1500 308.069  212.763  32.7258
## ORI_14629_14597 640.3060  978.987 1565.570  672.9510 366.592  571.972 175.3600
## ORI_14631_14598 295.0320  982.120 1268.890 1010.7800 412.867 1149.970 113.8320
## ORI_14633_14599 286.1870  436.608 1341.120  362.3230 407.023  721.115 125.1920
## ORI_14635_14600 234.4500  567.712  918.915  354.7260 307.570  226.727  30.5961
## ORI_14639_14602 180.4460  726.254 1093.880  223.3330 198.348  285.578  67.2817
##                 [,4406] [,4407]  [,4408]  [,4409]  [,4410]  [,4411]  [,4412]
## ORI_10219_10218 296.342 251.803 105.6820  781.160  268.577  890.060 242.5450
## ORI_10735_10730 227.647 234.373 321.1390 1241.810  654.387 1733.860 212.7930
## ORI_14605_14585 403.278 449.625 214.0490 1517.850  298.436 1274.700 251.9430
## ORI_14607_14586 362.513 265.245 101.4980 1026.560  895.001 1767.000 145.4900
## ORI_14609_14587 351.420 264.780 204.2120 1229.570  448.910 1778.960 185.6480
## ORI_14617_14591 218.460 302.683 249.4180 1884.130  267.584  778.011 137.1880
## ORI_14623_14594 281.323 256.812 312.5020 1792.930  126.423  641.488 291.0670
## ORI_14629_14597 408.653 335.787  62.7392  398.007  361.716 1350.590 253.6500
## ORI_14631_14598 294.207 280.257 105.8280  758.749  359.473 1199.710 164.9160
## ORI_14633_14599 345.995 281.958 249.8830 2356.920  322.392 1001.480 278.2200
## ORI_14635_14600 431.154 247.311 292.7580 1905.510  137.549  672.422 249.9730
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## ORI_14639_14602 261.119 249.327 195.3360  348.704  320.474  625.185 244.3310
##                  [,4413]  [,4414]   [,4415]  [,4416] [,4417]  [,4418] [,4419]
## ORI_10219_10218 179.5340  454.950  428.5220  572.936 580.881  855.554 536.052
## ORI_10735_10730 286.7340  382.304  309.9290  362.545 348.127  632.657 654.625
## ORI_14605_14585 143.0060  350.694  389.0130  604.378 578.543  742.102 491.120
## ORI_14607_14586  56.3031  288.999  203.9700  409.366 420.367 1025.180 439.327
## ORI_14609_14587 171.4270  324.760  379.6690  270.194 321.267  860.877 635.510
## ORI_14617_14591 490.7330  485.839  660.6080  423.418 324.274 1116.470 456.558
## ORI_14623_14594 198.4030  351.832  536.1790 1100.130 963.043  718.330 463.411
## ORI_14629_14597 303.4960  291.308  417.8430  845.419 610.230  559.923 690.878
## ORI_14631_14598  73.5936  257.384  725.9090  375.141 545.752 1003.260 624.755
## ORI_14633_14599 269.0640  431.083  759.5950  502.077 558.542  573.718 678.265
## ORI_14635_14600 248.0870  396.394  606.2210  574.486 769.262  388.787 614.861
## ORI_14639_14602  63.3343 1027.610  491.9260  556.544 605.883  489.622 548.569
##                  [,4420]  [,4421]   [,4422] [,4423]   [,4424]  [,4425]  [,4426]
## ORI_10219_10218 200.4370 1551.240  147.0160 266.817   96.4170 188.0130 1331.840
## ORI_10735_10730 173.1860 1088.800   86.9347 197.268   90.8312 191.9080  799.557
## ORI_14605_14585 354.4000 1301.840  112.6140 235.301  120.3720  67.6836 1451.680
## ORI_14607_14586 196.9440 1061.520  153.1860 255.932  142.7040  93.0827  622.840
## ORI_14609_14587 301.3590 1110.690   98.2718 330.428  285.7370 591.6430 1046.320
## ORI_14617_14591 367.2820 1233.610   88.1891 289.900  104.8460 145.7280 1238.750
## ORI_14623_14594 273.6610 1375.960  125.9480 221.125  242.2360  66.8253  987.461
## ORI_14629_14597 136.0780 1250.850  125.5290 239.453  156.7570  46.8997  681.613
## ORI_14631_14598 288.5540 1406.110   95.0902 153.830  136.7560 152.6930  713.476
## ORI_14633_14599 305.5670 1289.050  124.0510 165.660  301.6640  53.4268  776.249
## ORI_14635_14600 455.2420 1304.170  106.7450 177.464  133.7590  84.7536  933.466
## ORI_14639_14602 344.0850 1218.580  101.1330 148.566  113.4260  28.4442  412.634
##                  [,4427] [,4428]  [,4429] [,4430]  [,4431]  [,4432]  [,4433]
## ORI_10219_10218 128.1810 297.222  517.015 373.921 1459.370 217.0450 215.6850
## ORI_10735_10730 278.4330 393.890  680.691 329.622  817.744 170.9000 271.8820
## ORI_14605_14585 212.1770 367.327  391.712 324.690  632.253  92.1053 167.4260
## ORI_14607_14586 575.5540 327.271  293.489 249.772  451.780 108.0600 123.2010
## ORI_14609_14587 506.1800 484.442  493.088 187.122  481.394  64.8796 224.1160
## ORI_14617_14591 113.1620 329.702  622.986 273.141 1252.700 143.0860 193.9630
## ORI_14623_14594 181.7560 293.629  380.522 352.498  832.751 136.2180 169.6710
## ORI_14629_14597 220.4990 179.479 1790.410 336.428 1351.270 104.1770 196.9970
## ORI_14631_14598 458.4450 395.797  615.820 266.283  622.977  87.9071 160.1110
## ORI_14633_14599 171.3450 375.565  368.614 248.926  699.030 196.9750 243.6060
## ORI_14635_14600 173.2470 337.592  331.716 209.353  967.465 119.7660 131.8720
## ORI_14639_14602 129.4230 199.778  420.950 231.854  876.322 211.0450 200.8100
##                  [,4434] [,4435] [,4436] [,4437] [,4438]  [,4439]  [,4440]
## ORI_10219_10218  447.762 195.395 587.812 447.799 177.567  304.646  95.3871
## ORI_10735_10730  880.630 416.724 781.631 565.892 253.210  971.817 244.5100
## ORI_14605_14585  665.648 303.148 710.677 414.337 252.414  499.292 255.9820
## ORI_14607_14586  698.687 285.279 640.010 380.460 325.367  398.534 255.8770
## ORI_14609_14587  783.944 331.360 687.860 648.788 385.714  508.431 304.9840
## ORI_14617_14591  523.130 225.287 466.281 392.493 315.556  319.686 101.1040
## ORI_14623_14594  490.530 228.751 586.828 351.603 254.095  555.656 140.8980
## ORI_14629_14597  695.879 172.166 562.443 377.598 296.374  298.094 207.3360
## ORI_14631_14598  852.513 276.617 801.973 581.859 295.873  447.873 273.9760
## ORI_14633_14599  788.672 389.142 724.558 742.413 414.179  524.690 232.3820
## ORI_14635_14600  595.154 396.130 696.364 449.952 278.767  645.968 321.1870
## ORI_14639_14602  620.770 322.659 636.001 519.172 364.425 1188.650 583.8440
##                  [,4441]  [,4442]  [,4443]  [,4444]  [,4445]  [,4446]  [,4447]
```

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## ORI_10219_10218  93.0420  650.096 174.9760  445.468  205.283  172.533  372.230
## ORI_10735_10730 158.3810  515.799 211.1180  637.602  569.094  315.263 1272.850
## ORI_14605_14585 133.0720  817.901 347.7210  713.913  424.982  395.187  471.831
## ORI_14607_14586 284.4510  504.072 701.1890 1171.600  526.522 1003.340  623.038
## ORI_14609_14587 160.0750  541.511 429.8420  995.018  685.255  397.836  590.873
## ORI_14617_14591  65.5621  532.828 115.4200  695.628  289.289  302.600  388.981
## ORI_14623_14594 165.4340  748.865  80.5948  375.893  217.122  248.670  389.981
## ORI_14629_14597 170.5390  600.818  89.2824  793.371  459.206  299.857  802.132
## ORI_14631_14598 138.7250  516.307 258.9060  766.511  373.868  347.334  544.424
## ORI_14633_14599 136.0730  824.979 299.3810  575.973  193.610  275.033  605.379
## ORI_14635_14600 183.5710  529.367 143.8430  636.375  188.878  259.885  490.462
## ORI_14639_14602 176.2680  414.673 109.0350  578.722  216.384  262.129  400.985
##                  [,4448] [,4449]  [,4450]   [,4451] [,4452]  [,4453] [,4454]
## ORI_10219_10218  43.8886 666.077 178.5110  120.4250 217.573  932.989 267.658
## ORI_10735_10730 251.4890 776.217 162.1100  314.8680 193.149  904.687 285.487
## ORI_14605_14585 138.1260 450.196 167.0130  113.8110 230.434 1064.980 348.040
## ORI_14607_14586  84.9198 498.235 313.6900 1247.0600 195.628  897.069 368.152
## ORI_14609_14587 112.9150 334.346 170.2470 6024.2000 163.305 1358.300 445.538
## ORI_14617_14591  24.6827 125.411 129.0800   24.6827 182.710  981.400 408.717
## ORI_14623_14594 134.9600 423.969 101.5920   24.6827 209.777  929.243 389.585
## ORI_14629_14597  52.6304 207.783 175.0690  169.0160 236.424 1543.590 441.649
## ORI_14631_14598  49.9621 356.731 243.2670  310.8780 203.398 1019.030 383.001
## ORI_14633_14599 156.8350 447.569 214.8660   39.3469 205.590 1503.600 538.295
## ORI_14635_14600 225.3860 382.224 144.1290   24.6827 199.262 1299.960 530.644
## ORI_14639_14602  47.5733 448.670 149.9890   24.6827 189.079 1286.220 344.906
##                  [,4455]   [,4456]  [,4457]  [,4458]   [,4459]  [,4460]
## ORI_10219_10218  724.805   24.6827  26.3884 424.5180  940.4830 123.0070
## ORI_10735_10730 1444.230  227.2830 136.6850 294.0500  279.2070 145.5020
## ORI_14605_14585 1086.320  480.5120  51.4199 337.3410  124.7200 103.2800
## ORI_14607_14586  863.759 1038.1800 316.5170 517.4810  261.9900 225.5740
## ORI_14609_14587 1033.500  140.9600 128.2880 169.3260  221.6940 198.3790
## ORI_14617_14591  935.625   24.6827  35.2924 330.6150  783.7610  29.4335
## ORI_14623_14594 1133.630   24.6827  26.9807 231.8450  335.9330  46.9825
## ORI_14629_14597 1141.730   64.1554  73.0706 134.7480   84.0602 213.8520
## ORI_14631_14598 1035.880  402.2100 137.9270 249.1390  846.4800 125.1940
## ORI_14633_14599 1131.230   24.6827  55.7653 141.1340  117.9150  74.1749
## ORI_14635_14600 1079.430   24.6827  24.6827 141.3540  194.8250  63.1082
## ORI_14639_14602 1205.560   46.4031  46.2328 210.9380  135.1550  26.3790
##                  [,4461]   [,4462]  [,4463]  [,4464] [,4465] [,4466]  [,4467]
## ORI_10219_10218  528.824  131.4700  590.926 414.5840 273.405 378.516 185.1250
## ORI_10735_10730  405.427  470.2390  861.728 478.0670 488.121 595.225 253.3440
## ORI_14605_14585 1132.510  362.7560  697.195 590.0730 359.257 463.807 357.8040
## ORI_14607_14586 1096.870  894.4400  777.530 885.6580 353.493 567.465 456.3510
## ORI_14609_14587  802.679  604.3390  700.582 749.0180 564.039 493.548 253.5760
## ORI_14617_14591  320.367   61.2792  721.994 315.2240 319.612 556.477 206.2320
## ORI_14623_14594  327.774   62.1488  596.115 217.8610 270.920 505.501 103.7180
## ORI_14629_14597  258.044  732.6120  751.885 398.5440 361.941 524.681 162.5460
## ORI_14631_14598  588.761  498.5520  657.789 658.2720 608.839 780.156 274.1450
## ORI_14633_14599  560.638  359.5730  848.840 483.0700 452.365 442.168 143.2820
## ORI_14635_14600  397.762  166.9350  665.256 303.0750 448.184 656.474 125.8530
## ORI_14639_14602  196.622   59.7224  693.257 165.7420 325.886 305.408  77.5830
##                  [,4468] [,4469]   [,4470]  [,4471] [,4472]  [,4473]  [,4474]
## ORI_10219_10218  433.075 679.356   24.6827 408.8610 416.156 1145.140  876.233
## ORI_10735_10730  947.951 480.494  270.2210 425.9900 589.731 1152.610 1363.980
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## ORI_14605_14585  673.799 371.240  296.0420 282.1090 484.147 1166.230 1020.100
## ORI_14607_14586  802.813 577.263 2207.3100 256.9730 378.062 1411.130 1267.310
## ORI_14609_14587  827.646 674.158 1245.8500 605.0520 395.268 1071.450 1482.070
## ORI_14617_14591  532.087 856.453   42.1414 583.0620 335.182 1397.660 1114.790
## ORI_14623_14594  487.018 448.622   24.6827 261.6470 477.701 1045.010  873.751
## ORI_14629_14597  703.376 312.951   99.0340 188.8710 430.364  773.546 1124.020
## ORI_14631_14598  870.556 572.641  775.8040 340.6070 443.002 1253.130 1363.580
## ORI_14633_14599  423.146 315.008  119.7330 258.9720 514.886 1156.950 1922.650
## ORI_14635_14600  442.141 597.768   24.6827 338.0100 435.490  874.029 1059.340
## ORI_14639_14602  650.926 602.716   24.6827 104.8160 415.593  519.556 1318.870
##                  [,4475] [,4476]  [,4477]  [,4478]  [,4479]  [,4480] [,4481]
## ORI_10219_10218  730.304 396.222  297.558 289.5930  566.779  931.885 243.696
## ORI_10735_10730  654.276 482.898  798.217 218.3230  591.727  862.919 440.923
## ORI_14605_14585  852.583 470.362  421.382 210.6190  593.020  817.081 334.089
## ORI_14607_14586  867.500 712.726  524.369 261.6170  493.978 1057.790 216.675
## ORI_14609_14587  891.581 542.491  669.418 401.8000  573.449 1100.870 308.208
## ORI_14617_14591  701.758 307.676  211.821 293.8680  699.251 1149.280 178.373
## ORI_14623_14594  622.101 438.697  261.600 287.5300 1070.960  959.845 237.312
## ORI_14629_14597 1063.310 528.985  582.975 260.1710  889.857 2128.780 194.463
## ORI_14631_14598 1023.680 688.800  592.012 229.2500  882.390 1024.740 260.524
## ORI_14633_14599  803.656 427.496  276.476 290.0120  973.302  950.356 309.093
## ORI_14635_14600  736.844 683.446  415.391 302.9380  628.494  668.909 416.103
## ORI_14639_14602  709.443 479.681  315.760  92.7805  672.116  274.333 531.610
##                  [,4482] [,4483]  [,4484]  [,4485] [,4486]   [,4487] [,4488]
## ORI_10219_10218  894.145 531.739  340.197 130.9980 171.540 1145.4100 2910.08
## ORI_10735_10730  619.925 601.964 1160.770 556.2030 373.197   24.6827 3134.00
## ORI_14605_14585  999.838 507.070 1693.390 118.0070 195.238  756.2870 2543.01
## ORI_14607_14586  755.684 683.347 3173.890 353.8120 264.120   80.0427 2348.37
## ORI_14609_14587  619.819 686.027 1499.500 717.0820 251.418  176.9080 2563.07
## ORI_14617_14591  851.740 752.432  594.382  37.9984 167.061  203.8690 3076.21
## ORI_14623_14594  933.101 441.956  519.897 169.6990 236.611  140.4960 2157.57
## ORI_14629_14597  827.547 502.946  234.813 206.9110 440.830   48.6211 2795.73
## ORI_14631_14598  821.468 632.177 1534.120 521.2640 318.797   35.4452 3686.46
## ORI_14633_14599  888.245 631.522 1006.600  24.6827 185.146   42.6174 3505.65
## ORI_14635_14600  895.378 563.762  888.827  66.8819 281.302  190.6930 2007.50
## ORI_14639_14602  759.044 566.927  249.243 245.7300 248.385   43.4736 3212.92
##                  [,4489]  [,4490]  [,4491]  [,4492]  [,4493] [,4494]  [,4495]
## ORI_10219_10218 1104.010  812.140  653.696 1007.410 152.9170 406.425 107.3850
## ORI_10735_10730  990.168 1502.920 1297.330  728.729 235.1810 359.722 288.0290
## ORI_14605_14585 1345.870 1066.030  883.801  595.213 104.7370 377.085 209.7860
## ORI_14607_14586 1186.540  505.542  563.252  437.893 118.9170 377.340 316.3010
## ORI_14609_14587  977.480  853.859 1075.490  264.225 100.9880 316.069 353.9010
## ORI_14617_14591 1067.420 1146.630  897.373  918.833 176.0020 414.107 145.5170
## ORI_14623_14594 1382.530  755.120  828.561  804.106 229.9900 444.915 234.6820
## ORI_14629_14597 1046.210  693.776 1483.940  154.427  88.0693 381.242 236.9130
## ORI_14631_14598 1171.300 2017.830 1010.180  433.097 143.0010 400.090 304.6240
## ORI_14633_14599 1264.470  829.125 1129.830  796.416 210.0630 381.240 268.7720
## ORI_14635_14600 1242.310  600.640  908.099  921.382 175.1850 484.924 261.3640
## ORI_14639_14602 1580.750 1809.990  978.982  918.735 505.5540 407.973 169.1390
##                  [,4496]  [,4497]  [,4498] [,4499] [,4500] [,4501]   [,4502]
## ORI_10219_10218 148.7220  579.080 1899.600 2583.37 316.918 277.289  225.2120
## ORI_10735_10730 307.1740  834.841  213.670 2829.39 472.034 330.638  190.1800
## ORI_14605_14585 200.4030  561.127 2183.130 2890.89 377.311 216.725  238.0540
## ORI_14607_14586 142.1360  574.119  388.917 3118.69 436.903 222.068  618.4820
```

```
## ORI_14609_14587 376.8830  864.072  570.093 3178.08 530.523 406.576  559.4960
## ORI_14617_14591 277.0000  511.936  809.561 2971.09 445.341 401.149  198.2240
## ORI_14623_14594 245.4790  444.977  781.401 2667.61 304.198 217.371  189.1760
## ORI_14629_14597 234.3520  447.606  565.475 2071.10 344.144 376.777  105.8540
## ORI_14631_14598 347.4120  824.387  364.675 2844.20 402.071 313.396  334.7410
## ORI_14633_14599 251.3400  745.987  323.180 3478.00 446.741 307.117  147.8410
## ORI_14635_14600 288.1740  485.103  687.066 4161.58 580.718 281.258  212.7170
## ORI_14639_14602 279.5610  544.743  291.996 3641.63 551.341 354.036   82.1338
##                 [,4503]   [,4504]  [,4505]  [,4506]  [,4507]  [,4508] [,4509]
## ORI_10219_10218 319.402  509.7630  377.386  817.854  260.815 247.5040 306.569
## ORI_10735_10730 501.758  998.3560  337.603  362.218  499.883 345.1260 356.995
## ORI_14605_14585 355.068  697.7360  656.933 1178.160  408.404 230.8550 458.848
## ORI_14607_14586 397.278 1155.1200  466.603  520.321 1088.210 398.1280 476.890
## ORI_14609_14587 299.028 1676.2300  656.647  604.005  793.588 280.9250 624.959
## ORI_14617_14591 313.384  361.1150  340.239  926.203  234.219 233.6070 500.639
## ORI_14623_14594 321.569  243.7100  205.480  873.069  159.773 155.7790 316.396
## ORI_14629_14597 373.082  539.8600  227.067  818.162  386.854 181.6670 383.256
## ORI_14631_14598 381.997  651.2550  345.657  679.847  466.346 177.3340 401.723
## ORI_14633_14599 282.040  290.2580  358.852  478.003  471.109 166.2000 492.765
## ORI_14635_14600 302.872  268.7440  283.880  712.745  304.265 145.9780 473.233
## ORI_14639_14602 384.416  158.4710  129.513  555.181  435.152  98.4769 297.104
##                  [,4510]  [,4511]  [,4512]   [,4513]  [,4514] [,4515]  [,4516]
## ORI_10219_10218 154.8720 388.7610  690.083 1533.5100 3310.830 4610.53 1192.020
## ORI_10735_10730 174.0430 259.0410  383.962 2153.3600  801.884 3414.12 1226.300
## ORI_14605_14585 206.8620 224.7410  434.041 2643.8300 1490.680 3652.43 1261.840
## ORI_14607_14586 301.5200 176.4970  451.178 2366.9400 1482.630 2992.41 1391.120
## ORI_14609_14587 294.2830 276.1760  653.531 4871.6500 1185.830 3392.20 1320.820
## ORI_14617_14591 120.6340 289.9860  632.400 1152.3700 2316.920 4142.31 1381.440
## ORI_14623_14594  84.0127 170.7260  400.161  647.3150 2396.740 3298.82 1014.960
## ORI_14629_14597 318.3870 221.8210  292.037  754.7940  893.052 2602.67 1070.800
## ORI_14631_14598 249.2400 349.1060 1580.760 2092.6800  999.251 4371.41 1522.120
## ORI_14633_14599 205.7800 130.4030  554.519  386.9810  984.045 3021.46 1419.960
## ORI_14635_14600 138.3980 177.7820  268.599  413.2720 1453.140 3208.95 1317.360
## ORI_14639_14602 126.9090 133.8510  224.268 1111.7900  745.870 2519.10  966.868
##                  [,4517]  [,4518] [,4519]  [,4520]  [,4521]  [,4522] [,4523]
## ORI_10219_10218 142.6860 1827.680 300.743  829.473  273.837  505.922 391.466
## ORI_10735_10730 226.7190  942.555 362.290  935.122  404.736  309.512 230.349
## ORI_14605_14585 115.6310  585.612 284.357  841.315  279.363  271.974 315.154
## ORI_14607_14586  75.6597 1323.420 434.056  791.032  718.050  381.722 254.526
## ORI_14609_14587 153.4380 1054.610 592.075  904.859  789.576  419.355 252.792
## ORI_14617_14591 226.6610 1730.400 261.061  881.640  279.363  760.521 318.049
## ORI_14623_14594 249.9470 1133.380 230.405  754.225  193.477  381.564 306.364
## ORI_14629_14597 147.0520 1091.160 416.243  751.303  381.951  207.324 377.088
## ORI_14631_14598  87.6123 1002.700 466.106  828.229  908.440  348.423 246.999
## ORI_14633_14599 620.0310  931.066 515.643  725.621  184.094  298.636 338.079
## ORI_14635_14600 255.8420 1036.510 378.070  691.991  176.151  366.690 302.035
## ORI_14639_14602 299.5460  922.158 295.115 1037.830  245.750  202.496 384.037
##                 [,4524] [,4525] [,4526]  [,4527] [,4528] [,4529]  [,4530]
## ORI_10219_10218 267.988 448.364 278.527  911.925 303.885 429.837  52.2008
## ORI_10735_10730 213.007 331.165 524.685  550.911 342.940 664.198 121.4810
## ORI_14605_14585 235.976 322.552 332.989  867.369 457.260 744.234  93.3603
## ORI_14607_14586 188.172 396.973 276.746  939.581 284.097 618.324 404.8520
## ORI_14609_14587 180.671 505.029 379.089  974.507 496.684 799.278 349.3720
## ORI_14617_14591 138.537 359.339 363.553  743.839 216.823 597.108  35.1341
```

```
## ORI_14623_14594 298.692 294.582 402.187  975.084 326.631 643.287  31.5504
## ORI_14629_14597 414.763 358.073 340.337  867.947 201.221 583.986  66.2106
## ORI_14631_14598 339.385 328.921 336.437 1189.850 436.829 819.608 195.4990
## ORI_14633_14599 238.942 474.515 608.601  845.554 427.074 736.787 126.8930
## ORI_14635_14600 341.788 371.523 720.749  885.490 515.977 696.947 127.7320
## ORI_14639_14602 371.269 384.172 565.943  628.466 231.162 439.303  24.6827
##                  [,4531]  [,4532]  [,4533] [,4534]  [,4535]  [,4536]  [,4537]
## ORI_10219_10218  857.210 226.7030 1333.810 223.228 308.0530  947.445 1132.610
## ORI_10735_10730 1129.430 243.5080 1064.960 373.754  77.7155 1086.610  626.697
## ORI_14605_14585 1357.410 184.2920 1955.510 286.801 257.6670  544.154  512.243
## ORI_14607_14586  768.571 171.9350  799.643 253.576 122.6610  670.855  504.344
## ORI_14609_14587 1103.020 367.9570 1283.090 289.699 222.3340  648.896  608.255
## ORI_14617_14591  895.072 184.9960 1162.230 402.494 149.5580  817.384 1142.310
## ORI_14623_14594  547.699 177.9000 1397.390 232.713 140.7010  713.652  861.345
## ORI_14629_14597  763.148 203.9210  989.269 189.605  58.2967  420.985  487.157
## ORI_14631_14598  995.057 207.8010 1177.080 110.152 108.2520  607.967  512.974
## ORI_14633_14599  879.632 315.2440 1928.680 311.769  91.3732  915.139  423.759
## ORI_14635_14600  778.683 304.6070 1793.360 312.794 126.2760  552.115  722.352
## ORI_14639_14602  487.826 187.8770 1199.610 388.879  54.0222  561.650  452.161
##                 [,4538]  [,4539]  [,4540] [,4541]   [,4542]  [,4543]  [,4544]
## ORI_10219_10218 196.150  624.394  993.148 298.387  733.3380  760.647 2187.940
## ORI_10735_10730 325.670  459.157  791.174 567.366  284.7370  427.905 1116.930
## ORI_14605_14585 263.634  401.862  975.616 397.546  649.6230  430.773 1429.370
## ORI_14607_14586 287.320  602.176  826.861 332.106  229.7360  313.049 1100.120
## ORI_14609_14587 272.237  352.296 1229.800 298.460  220.9360  349.892 1051.370
## ORI_14617_14591 100.859  646.866 1661.080 192.557  506.4330  554.501 1986.580
## ORI_14623_14594 164.277  573.612 1264.060 337.172  468.8680  506.142 1724.460
## ORI_14629_14597 239.894  434.404 1338.680 338.699  268.2360  412.324 1454.200
## ORI_14631_14598 281.424  372.802 1078.650 359.708  195.8450  292.554 1111.580
## ORI_14633_14599 226.805  335.576  567.181 404.057  614.3680  605.241 1338.800
## ORI_14635_14600 166.375  328.636  971.531 294.537  393.4870  469.200 1766.100
## ORI_14639_14602 239.048  274.468 1086.230 353.428  237.0540  478.790 1547.300
##                 [,4545] [,4546]  [,4547] [,4548]  [,4549]  [,4550]  [,4551]
## ORI_10219_10218 703.180 214.880  437.498 214.498  960.322  887.112 289.1670
## ORI_10735_10730 462.620 948.970  901.652 385.411 1455.750  826.023 183.7160
## ORI_14605_14585 543.692 315.681  707.347 428.870 1616.120  943.347  97.8542
## ORI_14607_14586 352.448 493.573 1173.200 546.884 1593.550  853.530 149.0670
## ORI_14609_14587 313.817 398.503 1192.580 422.223 1717.630  823.252  93.5900
## ORI_14617_14591 383.824 304.155  475.710 243.720 1254.170  588.571 279.4180
## ORI_14623_14594 416.266 333.354  526.446 225.964 1473.330  720.301 147.0760
## ORI_14629_14597 306.369 347.371  875.188 372.044 1323.320  504.685  85.5322
## ORI_14631_14598 177.943 446.211 1090.520 382.363 1627.300  692.185  97.3480
## ORI_14633_14599 610.609 553.064  766.851 340.828 2050.850  736.760 101.0820
## ORI_14635_14600 442.957 483.464  631.849 261.592 1761.800  731.034 157.0200
## ORI_14639_14602 272.290 387.154  719.424 204.215 2074.330  679.555 110.0840
##                   [,4552]  [,4553]   [,4554] [,4555]  [,4556] [,4557]  [,4558]
## ORI_10219_10218  554.8760 1093.030   69.8384 253.593  93.6717 349.956  751.852
## ORI_10735_10730  753.4470  487.347   85.9639 338.688 223.9030 566.336  741.377
## ORI_14605_14585  490.2200  845.082   29.4490 218.468 185.0090 464.850  726.161
## ORI_14607_14586  247.7900  800.499 2277.1800 297.487 304.8900 357.036  631.636
## ORI_14609_14587  414.7180  771.407  202.5850 291.977 211.9450 463.327  881.242
## ORI_14617_14591  868.4750  647.886   38.4486 255.527 168.7680 498.208  811.197
## ORI_14623_14594  604.2840  893.041   52.5219 278.099 215.0680 348.331 1024.040
## ORI_14629_14597  296.2620  823.643   30.4694 399.359 219.8200 483.938  552.919
```

```
## ORI_14631_14598  350.5920  962.385  272.1750 360.399 200.2210 306.661  966.130
## ORI_14633_14599  748.8020  750.240   34.7089 231.921 130.9070 440.572  530.378
## ORI_14635_14600  642.4350  630.263   31.0624 217.358 173.1570 445.567  845.225
## ORI_14639_14602  212.6950  404.500   33.3055 350.309 175.4220 472.050  545.688
##                  [,4559]  [,4560] [,4561] [,4562]   [,4563]  [,4564] [,4565]
## ORI_10219_10218  582.390  726.515 178.400 397.712 1104.6100 211.7150 2058.00
## ORI_10735_10730  797.287  680.370 271.307 222.840  104.9750 244.3980 1538.51
## ORI_14605_14585  683.107  761.382 347.855 394.954  417.5490 298.7030 2283.57
## ORI_14607_14586  804.331  456.858 380.118 187.230  493.3040 291.7080 1723.99
## ORI_14609_14587  759.267  826.823 566.411 175.205  354.3250 183.6210 2788.35
## ORI_14617_14591  748.638  769.848 183.299 218.999 1182.1000  79.2429 1804.96
## ORI_14623_14594  633.215  568.144 142.374 374.939  509.6580 181.4010 1766.29
## ORI_14629_14597  479.709  950.502 215.074 287.737  212.3740 251.2570 1385.25
## ORI_14631_14598  693.113  919.585 466.286 277.533  154.5410 213.9790 2378.06
## ORI_14633_14599  919.274  685.447 346.165 274.228  255.8420 333.7980 1816.82
## ORI_14635_14600  846.498  797.666 214.617 305.885  370.0740 309.8300 2271.33
## ORI_14639_14602  885.897  631.318 156.940 312.628  156.1750 267.9040 1198.79
##                  [,4566]  [,4567]   [,4568]  [,4569] [,4570] [,4571] [,4572]
## ORI_10219_10218  957.119 305.0040  190.3000  96.6561 472.767 2955.98 232.839
## ORI_10735_10730  920.257 228.7420  465.2330 143.1670 346.302 2399.06 267.379
## ORI_14605_14585  787.737 397.8490  597.3470  50.1364 430.987 2698.40 155.356
## ORI_14607_14586 1006.910 193.7980  354.0050 272.8130 277.408 2506.11 323.482
## ORI_14609_14587 1190.250 241.6200  925.6910 138.0150 240.638 2638.54 293.959
## ORI_14617_14591 1190.990 303.3610  396.0210  29.8459 204.103 3163.89 183.822
## ORI_14623_14594  737.387 327.1210  213.1060  31.1362 501.820 2737.09 279.624
## ORI_14629_14597  555.227 188.1480 1228.0800  44.7330 294.976 3270.09 236.093
## ORI_14631_14598 1006.970 372.2720  631.5740 138.5050 354.319 2414.18 247.121
## ORI_14633_14599  857.744 323.5830  731.3820 123.7450 340.164 3139.52 394.487
## ORI_14635_14600  945.861 273.5660  168.7490  24.6827 405.144 2841.07 275.862
## ORI_14639_14602  620.738 240.4310  332.8280  35.8641 396.512 2978.93 289.950
##                  [,4573]  [,4574] [,4575]  [,4576]  [,4577]  [,4578]  [,4579]
## ORI_10219_10218  744.911 261.7220 400.409  476.504  568.632 133.1490  710.046
## ORI_10735_10730 1639.220 437.9080 468.715 1010.050  662.667  50.3647  815.633
## ORI_14605_14585  784.706 369.8190 357.319  728.469  697.201 127.7310  622.650
## ORI_14607_14586  646.499 482.2580 276.747  742.600  890.022  24.6827  791.310
## ORI_14609_14587  620.265 387.9330 429.866  802.208  987.252  24.6827  976.247
## ORI_14617_14591  542.698 172.0700 408.900  576.670  440.671  24.6827  621.156
## ORI_14623_14594  806.327 132.2620 321.858  849.027  584.544 235.1860  394.169
## ORI_14629_14597  672.728 216.3730 345.568  871.998  600.780  38.5659  572.005
## ORI_14631_14598  588.851 331.2990 465.763  872.718  899.655  24.6827  707.675
## ORI_14633_14599  551.351 197.8550 311.342  761.815  393.652  27.3377  706.104
## ORI_14635_14600  688.125 185.2660 383.252  676.744  380.248 242.5680  608.123
## ORI_14639_14602  764.557 189.1640 343.349  789.050  273.073 107.7710  465.886
##                  [,4580]   [,4581] [,4582] [,4583] [,4584] [,4585]  [,4586]
## ORI_10219_10218 1032.750 7712.9700 3219.08 345.052 615.242 574.137  565.779
## ORI_10735_10730  437.609  244.3480 1775.56 486.559 265.884 522.621 1394.230
## ORI_14605_14585  647.063 7155.0600 3991.38 538.080 470.641 504.804  793.691
## ORI_14607_14586  461.594 2329.5900 3449.35 410.135 373.717 439.464  982.436
## ORI_14609_14587  864.539 4056.8000 3612.69 429.441 247.670 341.399  586.863
## ORI_14617_14591  795.935 4021.2600 3205.14 483.672 263.230 262.429  375.114
## ORI_14623_14594  512.659 5103.3400 4333.06 422.118 400.939 514.336  387.421
## ORI_14629_14597  231.707 2489.8000 3503.55 271.523 342.827 536.666  528.681
## ORI_14631_14598  717.030  832.3610 3288.46 411.630 289.149 382.159 1120.980
## ORI_14633_14599  431.003 1977.8300 3910.46 577.575 345.066 617.635  401.663
```

```
## ORI_14635_14600  669.239 5524.3900 3388.67 554.209 295.560 556.906  639.729
## ORI_14639_14602  249.118 1110.8600 3110.03 495.956 305.674 625.763 1349.220
##                 [,4587]  [,4588]  [,4589]  [,4590] [,4591] [,4592] [,4593]
## ORI_10219_10218 374.399  374.517  556.636  541.399 275.929 265.033 483.337
## ORI_10735_10730 301.695  598.466  646.367  628.043 232.140 254.223 399.848
## ORI_14605_14585 376.219  553.725  718.179  485.528 222.835 173.707 420.937
## ORI_14607_14586 384.212  333.834  596.557  662.609 281.555 263.724 312.130
## ORI_14609_14587 332.392  547.216  832.285 1011.270 248.700 205.686 438.122
## ORI_14617_14591 214.728  602.204  602.089  757.777 202.128 155.736 337.909
## ORI_14623_14594 478.548  424.538  517.313  533.417 273.876 195.429 332.148
## ORI_14629_14597 624.736  600.528  717.696  657.155 309.784 222.941 455.432
## ORI_14631_14598 423.254  626.058  759.712  913.636 286.092 196.660 374.510
## ORI_14633_14599 408.898  425.976  952.850  528.910 271.719 191.430 408.794
## ORI_14635_14600 367.797  423.262  845.783  603.374 302.660 198.658 429.027
## ORI_14639_14602 420.445  272.430  497.967  588.382 246.490 203.476 356.215
##                  [,4594]   [,4595] [,4596] [,4597]  [,4598]  [,4599]  [,4600]
## ORI_10219_10218  41.2756   84.7023 138.783 414.198  45.8741  79.8288  325.429
## ORI_10735_10730 126.8350  809.5560 541.677 461.499 217.3740 712.9620  884.440
## ORI_14605_14585  73.4583  349.4750 309.429 429.389  57.2776 318.4630  486.870
## ORI_14607_14586  29.9440  158.5520 271.514 441.160  34.2011 253.3170  319.801
## ORI_14609_14587  47.3168  255.8710 370.171 482.942  67.6403 372.4260  465.958
## ORI_14617_14591  28.7679   88.0544 266.251 396.463  40.9688 129.2890  301.175
## ORI_14623_14594 117.8730  195.7460 301.677 250.496  51.1052 103.2630  474.496
## ORI_14629_14597  40.0194  376.1380 378.265 276.676  58.4696 144.0610  545.775
## ORI_14631_14598  57.0939  310.6490 388.700 381.894  91.6536 379.9950  510.875
## ORI_14633_14599  60.4546  356.2020 390.394 431.672 158.5800 159.4170  501.621
## ORI_14635_14600 141.3540  250.5040 346.905 561.947  87.8030 132.2810  563.013
## ORI_14639_14602 205.1280  858.1750 597.387 343.059 232.2340 687.5040  921.688
##                  [,4601]  [,4602] [,4603]  [,4604] [,4605] [,4606]  [,4607]
## ORI_10219_10218  246.147 205.1890 219.781  539.970 250.824 305.129  81.9394
## ORI_10735_10730 1013.810 353.4680 263.934  746.902 200.219 447.812 216.0040
## ORI_14605_14585 1195.110 224.3490 357.474  737.432 292.259 293.395 236.0990
## ORI_14607_14586  237.510 408.6410 177.271  978.182 244.810 392.323 126.8680
## ORI_14609_14587  398.700 267.9950 193.638 1120.260 123.066 341.191 298.0980
## ORI_14617_14591  350.762 155.3460 183.557  822.219 196.978 295.025  44.1976
## ORI_14623_14594  533.984 105.6330 341.065  502.997 357.857 226.207  88.1602
## ORI_14629_14597  440.668 192.2610 327.902  562.077 246.973 206.212  70.7958
## ORI_14631_14598  462.185 242.6920 335.760  666.010 209.733 449.361 113.3250
## ORI_14633_14599  555.545 148.3490 264.009  865.853 263.586 355.073 114.5180
## ORI_14635_14600  901.202 141.2960 351.597  855.452 386.367 437.578  63.3540
## ORI_14639_14602 1011.150 236.1690 346.473  743.048 306.387 388.890  33.5935
##                 [,4608] [,4609]  [,4610]  [,4611]   [,4612]  [,4613] [,4614]
## ORI_10219_10218 267.587 324.138 2868.950 1131.500  142.3060 166.4490 414.768
## ORI_10735_10730 388.192 361.279 1359.560 1561.870  497.7450 365.6500 332.968
## ORI_14605_14585 370.782 337.327 1187.530  999.864  338.5800 238.3060 382.797
## ORI_14607_14586 278.390 207.497 1914.820  903.739  196.1320 153.9690 275.056
## ORI_14609_14587 318.471 195.195 1492.010 1054.670  288.8990 510.8490 364.271
## ORI_14617_14591 275.839 225.696 3088.460 1264.180   37.5409 154.6850 455.394
## ORI_14623_14594 282.596 371.775 1699.580 1029.620   77.5305 132.8650 379.208
## ORI_14629_14597 223.587 286.439 1373.440 1427.920  637.8020 242.8750 170.230
## ORI_14631_14598 290.316 253.444 1513.420 1770.750  503.2110 528.0270 321.548
## ORI_14633_14599 342.492 331.165 1971.690 1304.120   70.8566 204.5070 400.042
## ORI_14635_14600 300.651 404.891 1734.480 1647.530   64.5768 166.2020 505.111
## ORI_14639_14602 261.894 386.702 1388.500 1279.290  336.6070  95.6977 145.861
```

```
##                  [,4615] [,4616]  [,4617]  [,4618] [,4619]  [,4620] [,4621]
## ORI_10219_10218 329.463 240.267 722.7790  727.230 300.167  638.565 355.381
## ORI_10735_10730 551.150 261.841 344.7400  800.480 336.086  684.163 412.865
## ORI_14605_14585 572.627 319.340 304.8440  840.148 213.720  782.579 389.172
## ORI_14607_14586 390.024 420.095 621.7460  751.537 240.256  880.233 362.469
## ORI_14609_14587 561.883 238.088 311.8620  698.923 291.321  825.411 522.523
## ORI_14617_14591 317.055  63.299 375.6930  550.677 284.299  719.005 435.455
## ORI_14623_14594 417.565 366.130 362.1820  688.183 274.248  597.067 474.326
## ORI_14629_14597 666.396 333.863 120.3340  695.917 180.924  556.144 321.918
## ORI_14631_14598 625.795 265.534 492.4550  819.965 218.184  935.461 443.704
## ORI_14633_14599 566.779 348.032 218.5630  843.672 462.607  784.559 370.100
## ORI_14635_14600 510.030 359.723 146.7220  798.455 324.917  748.359 417.397
## ORI_14639_14602 444.124 263.565 280.0770  694.804 313.307  629.269 352.989
##                    [,4622] [,4623]  [,4624]   [,4625]   [,4626]  [,4627] [,4628]
## ORI_10219_10218  161.7140 220.562 301.3700 1592.8000 1282.4200 209.5580 501.030
## ORI_10735_10730  212.5910 325.046 162.6130  450.2400 1134.2700 304.0990 308.982
## ORI_14605_14585  156.5390 220.622 238.3350  400.9740  353.2070 260.9010 420.955
## ORI_14607_14586  266.4040 291.561  94.2615  966.5650  862.8210 113.7140 280.203
## ORI_14609_14587  458.1120 307.353 132.9730  573.5510  847.5460 474.3210 659.578
## ORI_14617_14591  137.3080 214.009 312.2560 1833.4400 1513.7600 331.5750 486.013
## ORI_14623_14594  142.4350 228.051 208.1200  583.9060 1155.2200 204.7930 441.141
## ORI_14629_14597  531.6090 210.299 167.6300  245.0900  390.2090 729.0270 205.295
## ORI_14631_14598  457.0570 255.791 194.7990  404.0640  630.3920 345.6250 569.026
## ORI_14633_14599  136.1660 245.195 172.2050  551.5120  631.0160 153.1790 288.883
## ORI_14635_14600  122.9700 230.200 228.1950  721.5110  460.0180 206.4040 494.222
## ORI_14639_14602  160.8460 190.602 182.7450  462.2260  708.6960  99.4240 244.992
##                   [,4629]  [,4630] [,4631]  [,4632] [,4633] [,4634]  [,4635]
## ORI_10219_10218 209.2710  76.0088 432.959  24.6827 239.817 549.915  375.750
## ORI_10735_10730 409.4080 470.3670 470.667 201.1420 444.598 658.407 1029.400
## ORI_14605_14585 497.4560 180.0930 381.146  24.6827 418.145 704.895 1367.860
## ORI_14607_14586 322.6460  87.7562 397.966  55.4474 383.391 784.200  727.936
## ORI_14609_14587 480.8430 200.9830 383.706 167.4330 393.611 642.090  802.307
## ORI_14617_14591 185.6870  66.7941 349.333  24.6827 359.011 420.988  709.712
## ORI_14623_14594 149.9880 135.4960 353.047  24.6827 515.258 486.328 1006.680
## ORI_14629_14597 644.9690 194.8860 449.914 156.0540 308.409 518.469  618.376
## ORI_14631_14598 536.5180 272.1760 338.386 228.1770 478.609 722.238 3040.260
## ORI_14633_14599 127.8980 197.4520 405.200  24.6827 432.003 739.004  487.820
## ORI_14635_14600 160.3420 186.9480 533.074  24.6827 631.747 593.019 1064.270
## ORI_14639_14602 186.6110 602.4150 376.258 375.2260 473.631 509.205 1829.350
##                    [,4636] [,4637]  [,4638] [,4639] [,4640]   [,4641] [,4642]
## ORI_10219_10218  116.0210 434.596  146.045 386.953 398.829   37.2854 326.131
## ORI_10735_10730  203.5080 654.019  210.738 879.260 511.757  426.9240 374.623
## ORI_14605_14585   24.6827 573.413  159.418 679.526 427.981  206.4120 335.506
## ORI_14607_14586  150.7250 535.462  137.784 575.224 420.839  362.4570 317.038
## ORI_14609_14587  134.8290 730.857  202.230 883.211 514.697   52.3723 372.003
## ORI_14617_14591   83.0127 517.388  106.613 595.807 362.884   24.6827 245.300
## ORI_14623_14594   65.9260 351.009  125.030 576.152 411.192   24.6827 226.237
## ORI_14629_14597   24.6827 904.643  201.743 746.469 535.906   49.7613 262.248
## ORI_14631_14598  164.2950 704.434  288.953 489.104 545.740  101.0060 387.426
## ORI_14633_14599  128.6160 779.274  148.199 880.532 377.384  238.5730 389.407
## ORI_14635_14600  554.8540 689.035  165.872 911.043 506.684   45.2512 409.809
## ORI_14639_14602 2882.0600 652.151  124.956 519.732 451.986   92.0901 340.623
##                    [,4643]  [,4644]  [,4645]  [,4646]  [,4647] [,4648]  [,4649]
## ORI_10219_10218   24.6827  239.519 149.7570 226.1780 1153.280 361.726 157.8420
```

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## ORI_10735_10730   75.4058  223.317 219.3540 163.8890  844.629 266.919 246.9570
## ORI_14605_14585   24.6827  292.557 186.9170 153.0720 1002.460 439.991 104.7780
## ORI_14607_14586  173.5550  394.919 336.0660 231.2970 1031.240 395.496 152.1580
## ORI_14609_14587   37.5541  199.194 170.5670 595.1200 1097.200 342.704 234.9930
## ORI_14617_14591   24.6827  183.902 318.3450 101.5490 1131.380 249.887 159.0930
## ORI_14623_14594   24.6827  416.689 251.5600 174.0450  922.853 420.665 135.4990
## ORI_14629_14597   24.6827  290.775 156.1330 190.5250  858.259 276.639 124.4180
## ORI_14631_14598   24.6827  205.615 160.1160 323.5500 1164.460 373.230 257.4970
## ORI_14633_14599   24.6827  285.883 263.3090 104.7200  815.465 494.172 140.9430
## ORI_14635_14600   24.6827  253.836 179.8600  52.4806  930.802 474.180 155.8920
## ORI_14639_14602   24.6827  204.728 198.1720  89.7193  611.001 220.128 164.1490
##                 [,4650]  [,4651] [,4652]  [,4653]  [,4654] [,4655] [,4656]
## ORI_10219_10218 190.723 178.6710 268.296 2288.740 230.0500 378.023 269.598
## ORI_10735_10730 340.738 285.0320 507.125 2223.180 240.4130 591.313 436.351
## ORI_14605_14585 202.327 181.1570 396.207 2325.930 184.3560 528.682 306.073
## ORI_14607_14586 753.777 288.0700 424.298 1547.170 158.4510 367.950 309.103
## ORI_14609_14587 318.441 248.8300 287.173 1863.830 247.0180 471.552 646.238
## ORI_14617_14591 137.887 157.2080 273.130 1271.520 194.6720 266.382 334.674
## ORI_14623_14594 132.005 175.3620 327.412 2324.980  78.0098 233.048 200.280
## ORI_14629_14597 221.173 195.5880 453.098 1970.310 162.9850 287.866 334.753
## ORI_14631_14598 370.594 165.6430 324.284 1477.640 258.0110 351.277 307.810
## ORI_14633_14599 243.194 209.3880 417.693 2944.250 102.0760 465.535 336.354
## ORI_14635_14600 198.090 235.1200 316.156 2439.680 136.3050 278.449 264.403
## ORI_14639_14602 191.204 247.5020 410.480 1198.080  62.6267 551.060 404.989
##                 [,4657]  [,4658]  [,4659]  [,4660] [,4661] [,4662]  [,4663]
## ORI_10219_10218 289.694 151.4270  519.873 244.1370 257.882 398.253 135.0180
## ORI_10735_10730 265.718 146.4800  899.210 153.6970 641.623 407.304 147.3990
## ORI_14605_14585 289.935 183.9970  677.397 273.9240 513.771 467.321 136.2340
## ORI_14607_14586 195.378 224.8500  501.582  80.8377 386.653 487.353 117.5190
## ORI_14609_14587 298.832 212.2220  780.068 145.5270 490.996 502.031 190.2550
## ORI_14617_14591 188.933 430.3010  292.869 188.6010 430.311 203.102  57.7586
## ORI_14623_14594 161.298 241.8440  380.043 330.7700 337.063 332.134 219.0820
## ORI_14629_14597 207.773 352.0990  430.053  81.6783 280.804 433.021 286.7710
## ORI_14631_14598 180.042 244.8590  884.586 104.0200 606.398 494.908 200.8660
## ORI_14633_14599 338.824 212.5320  472.740 119.9420 470.141 343.312 143.6630
## ORI_14635_14600 306.064 187.1840  355.725 212.5160 528.010 389.065 211.2580
## ORI_14639_14602 294.160 163.0350  513.914 124.4150 193.506 263.213 168.3220
##                  [,4664] [,4665] [,4666] [,4667] [,4668] [,4669]  [,4670]
## ORI_10219_10218 184.0140 516.838 517.848 187.734 272.124 580.704 1151.930
## ORI_10735_10730 297.6480 874.902 331.316 187.984 490.101 554.110  938.854
## ORI_14605_14585 182.6820 789.132 479.997 300.029 416.572 545.630 1028.530
## ORI_14607_14586 554.6650 899.934 509.552 242.126 352.084 362.188 1075.150
## ORI_14609_14587 454.8790 843.675 636.535 282.881 291.675 573.094 1195.470
## ORI_14617_14591 208.4080 459.682 516.641 213.187 262.580 907.570  910.327
## ORI_14623_14594 317.2380 533.916 262.573 211.270 488.052 563.948  688.756
## ORI_14629_14597 240.9740 809.086 510.389 273.355 367.876 930.498 1371.170
## ORI_14631_14598 357.2590 770.421 411.142 324.948 353.567 625.683 1141.450
## ORI_14633_14599 141.6230 644.770 440.965 293.590 450.362 387.759 1279.080
## ORI_14635_14600 153.3110 482.843 382.365 292.081 250.127 575.775  987.751
## ORI_14639_14602 198.2110 537.807 301.217 233.584 467.236 405.194 1119.550
##                  [,4671] [,4672] [,4673]  [,4674] [,4675]  [,4676] [,4677]
## ORI_10219_10218 257.5880 281.053 520.210 240.7170 260.544 240.0910 400.432
## ORI_10735_10730 219.9320 315.676 542.679 283.4090 416.063 354.7860 576.469
## ORI_14605_14585 226.8560 420.268 548.921 298.5610 268.232 270.9930 548.463
```

```
## ORI_14607_14586 155.1800 231.282 354.180 209.7520 222.415 259.7020 621.117
## ORI_14609_14587 172.9020 252.130 452.607 261.5710 276.973 259.5370 837.071
## ORI_14617_14591 221.1370 281.374 333.331 300.9160 222.777 250.0490 470.301
## ORI_14623_14594 264.8370 429.729 354.650 230.3870 212.909 226.8880 417.128
## ORI_14629_14597 160.9000 300.851 435.944 260.1850 254.197 313.8200 747.126
## ORI_14631_14598 203.7340 365.433 530.012 309.0440 369.553 279.7350 790.744
## ORI_14633_14599 268.6920 321.226 513.276 192.8610 258.954 282.8540 745.657
## ORI_14635_14600 276.9130 432.583 625.277 271.6110 267.906 238.1660 439.376
## ORI_14639_14602 303.9960 367.173 420.588 322.2620 258.739 261.7940 670.274
##                  [,4678]  [,4679]   [,4680]  [,4681]  [,4682]  [,4683]  [,4684]
## ORI_10219_10218  857.563  840.482  114.1170 252.3440 129.4390  561.397 167.0110
## ORI_10735_10730 1147.180  908.358 1210.8100 457.3180 130.3060  465.686 457.6110
## ORI_14605_14585  967.473  852.798  222.2930 314.0430  92.7937  746.252 200.7120
## ORI_14607_14586  907.053  646.640  169.5730 330.4870 111.8850 1010.330 405.7240
## ORI_14609_14587 1110.700  841.987  621.6930 351.1820  78.5662  705.636 326.3460
## ORI_14617_14591  977.558  708.250  355.1230 404.1070  48.6499  403.987  95.2475
## ORI_14623_14594  836.159  575.857  125.9720 443.5360  97.8667  720.121 122.8140
## ORI_14629_14597 1025.810  688.684  218.6080 365.0590 106.2500  617.937 240.9840
## ORI_14631_14598 1124.550  978.945  849.3980 356.5970  96.4024  854.820 328.1980
## ORI_14633_14599 1260.580  735.349  272.1080 373.8710  88.6087  427.956 290.7440
## ORI_14635_14600  972.895  640.153   66.0612 582.6350  97.8495  525.480 189.5550
## ORI_14639_14602 1065.180  563.394  390.6840 522.2890  68.3053  407.999 282.9820
##                  [,4685]  [,4686] [,4687]  [,4688] [,4689]  [,4690]  [,4691]
## ORI_10219_10218  801.645  305.966 393.792  88.6849 245.778  68.8338  90.7120
## ORI_10735_10730  801.499  993.371 297.764 167.1580 257.961 152.1050 203.2740
## ORI_14605_14585  898.155  489.685 427.569 202.1740 206.121 139.2710 109.6800
## ORI_14607_14586  890.877  841.402 588.181 183.9950 169.743 137.6940 223.1210
## ORI_14609_14587  771.933  723.086 344.533 233.3840 238.218 262.3250 234.1590
## ORI_14617_14591  853.751  496.270 309.146 143.7060 266.754 102.4430 110.2530
## ORI_14623_14594  967.181  410.247 255.256 144.0650 190.306  83.6323  74.4960
## ORI_14629_14597  911.258  583.116 305.451 228.8670 170.650 215.8270  42.2592
## ORI_14631_14598  855.773  570.334 381.113 210.1590 302.818 159.7920 202.1490
## ORI_14633_14599  966.984  541.076 405.471 200.4170 231.277 156.2860  45.4375
## ORI_14635_14600  950.292  533.150 400.016 204.5930 185.578 141.9480  67.0636
## ORI_14639_14602 1023.340  566.114 313.468  85.4453 150.938 148.1390  66.8792
##                 [,4692]  [,4693] [,4694]  [,4695] [,4696]  [,4697]  [,4698]
## ORI_10219_10218 445.793 215.6470 578.894  290.261 461.735 116.1770  134.353
## ORI_10735_10730 296.542 182.8830 387.568  524.276 291.174 261.9850 1338.380
## ORI_14605_14585 456.350 168.7560 281.441  257.952 352.283 269.0960  520.291
## ORI_14607_14586 396.083 209.1270 398.909  371.506 176.669  87.6818 1000.230
## ORI_14609_14587 336.900 205.9230 514.903  374.907 221.099 194.7680  930.308
## ORI_14617_14591 288.690 202.8130 442.090  435.378 198.871 111.6980  188.483
## ORI_14623_14594 476.885 238.7090 327.019  556.771 265.979 131.3720  273.415
## ORI_14629_14597 497.001 337.9040 332.921  212.118 344.045 160.1130 1174.300
## ORI_14631_14598 383.039 268.7740 430.601  317.315 241.432 208.4040  810.403
## ORI_14633_14599 478.497 271.8110 394.415  879.140 351.306 270.1010  280.171
## ORI_14635_14600 445.421 220.8780 396.381  440.737 382.222 141.9720  176.140
## ORI_14639_14602 431.429  68.9951 303.178  444.650 355.126 292.7190  578.484
##                  [,4699] [,4700]  [,4701] [,4702]  [,4703] [,4704]  [,4705]
## ORI_10219_10218 106.1340 394.608 201.6550 443.062 117.9930 139.341 2150.210
## ORI_10735_10730 338.6590 355.049 143.3770 173.866 287.9030 413.660 1886.230
## ORI_14605_14585 265.4340 283.365 235.7060 543.931 163.1210 244.720 2321.810
## ORI_14607_14586 135.2500 398.698 146.1950 255.059 187.9650 270.445 2095.960
## ORI_14609_14587 263.2100 355.989 262.9180 365.432 228.1240 260.765 1963.670
```

```
## ORI_14617_14591  93.3312 312.638 255.5140 376.745  62.1204 137.320 1958.380
## ORI_14623_14594 160.4360 291.876 281.8980 305.600  62.3859 197.622 1810.810
## ORI_14629_14597 192.9410 363.787 306.6300 293.881 251.9200 247.204 2551.800
## ORI_14631_14598 217.4300 310.560 222.9530 277.764 111.0710 204.618 1449.330
## ORI_14633_14599 256.4150 406.985 252.8920 165.068 158.8040 139.128 2375.380
## ORI_14635_14600 188.8730 308.831 302.7100 270.038  54.6189 259.778 1694.340
## ORI_14639_14602 173.6470 453.284 218.7800 270.604 166.1750 183.911 1718.550
##                  [,4706] [,4707]  [,4708]  [,4709]  [,4710]  [,4711] [,4712]
## ORI_10219_10218  690.000 517.117 106.6780 1320.620 178.0840  334.560 130.707
## ORI_10735_10730  755.370 562.226 422.6690  988.307 492.3560  808.612 252.855
## ORI_14605_14585  468.266 482.848 174.7030 1706.770 332.1990  564.009 327.101
## ORI_14607_14586  463.872 456.837 132.3430  730.412 155.1920  533.162 357.816
## ORI_14609_14587  706.604 522.472 381.6770 1072.250 299.4080  925.905 315.246
## ORI_14617_14591  746.671 739.079  69.1674  972.728 256.5390  608.689 267.502
## ORI_14623_14594  651.947 344.351 118.1340  790.471 376.8750  407.653 200.519
## ORI_14629_14597  617.196 461.857  77.1120 1267.070 176.4340 1280.100 301.898
## ORI_14631_14598  719.119 722.588 211.4980  782.451 313.0040  733.861 348.462
## ORI_14633_14599  600.806 502.418 255.5070  817.142 172.2130  474.351 203.337
## ORI_14635_14600  457.341 364.450 183.1940  542.173 264.1350  423.710 339.743
## ORI_14639_14602  507.545 488.617  92.0356  752.224 207.8190  612.927 314.351
##                 [,4713] [,4714]   [,4715]  [,4716]  [,4717]  [,4718]  [,4719]
## ORI_10219_10218 378.897 324.054   99.6120 1440.870  403.589  270.111  364.023
## ORI_10735_10730 414.285 421.065  185.7480 1776.410  581.606  449.187 2239.460
## ORI_14605_14585 410.260 316.207  127.8550 1804.140  640.975  422.905  425.793
## ORI_14607_14586 409.151 400.851  111.0160 2869.160 1000.230  333.188 1789.910
## ORI_14609_14587 416.920 444.540  171.1170 1935.520  947.264  761.565 2650.730
## ORI_14617_14591 292.872 438.124   79.9976 1462.880  610.382  354.151  331.022
## ORI_14623_14594 342.685 490.802   82.4570 1414.930  417.219  261.474  273.733
## ORI_14629_14597 452.384 474.398  243.3170  763.689  658.481  490.746  702.718
## ORI_14631_14598 412.587 532.894  212.9630 1321.290  726.349  520.988 1921.100
## ORI_14633_14599 378.054 800.633   59.4354 1202.590  420.947  351.617 2819.530
## ORI_14635_14600 368.459 795.735   68.2945  823.469  439.583  303.133  663.158
## ORI_14639_14602 442.691 490.192  136.4470  447.086  425.936  343.869  621.021
##                  [,4720]  [,4721]  [,4722] [,4723] [,4724] [,4725]  [,4726]
## ORI_10219_10218  760.302 249.3590  808.061 2366.74 2492.01 2008.05 1111.950
## ORI_10735_10730  560.244 345.7930  147.606 5029.54 1746.10 2653.14  761.666
## ORI_14605_14585  855.765 238.6470  177.304 3652.34 1644.43 2324.51  903.662
## ORI_14607_14586  796.376 144.8490  306.864 2945.97 1601.68 2340.98  976.756
## ORI_14609_14587 1279.980 408.8400  157.665 3282.14 1970.99 2681.17  824.671
## ORI_14617_14591 1069.660 192.7870 1032.870 4547.44 2070.88 2591.10 1581.140
## ORI_14623_14594  865.389 154.9540  560.888 2847.85 1677.24 2137.59 1047.600
## ORI_14629_14597  776.901 223.8390  190.298 3250.74 2247.65 2040.39 1002.670
## ORI_14631_14598 1096.960 318.2220  152.479 3619.73 2155.74 1911.57  740.993
## ORI_14633_14599 1169.950 320.6850  197.212 3618.33 1239.91 2292.68  694.065
## ORI_14635_14600 1064.150 217.8670  348.357 2448.21 1250.28 2749.82 1110.740
## ORI_14639_14602  694.027  86.5689  209.493 4190.52 1440.25 2088.30  905.860
##                  [,4727]  [,4728]   [,4729]  [,4730] [,4731]  [,4732] [,4733]
## ORI_10219_10218 1517.300 168.6190   29.7000 1108.230 441.540 1914.200 314.250
## ORI_10735_10730 1042.590  93.2191 1566.3100  810.418 405.786 1585.110 224.323
## ORI_14605_14585  976.326 159.9060  877.1090  978.170 403.789 1660.290 396.050
## ORI_14607_14586 1119.700 188.8570 4086.0400 1112.600 665.508 1921.300 214.123
## ORI_14609_14587  978.919 158.5820 1229.3600 1069.880 503.740 1558.410 245.387
## ORI_14617_14591 1223.670 108.2890   55.3857 1189.630 237.212 1523.290 322.890
## ORI_14623_14594 1028.560 122.6270  162.6780 1132.240 314.724 1599.530 366.116
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## ORI_14629_14597 1022.790  32.3227  453.2210 1413.690 558.786 1053.750 272.650
## ORI_14631_14598 1617.650 107.5630 1317.6000 1040.430 484.200 1735.990 344.326
## ORI_14633_14599  609.160 113.5710  919.0670 1257.890 395.537 1579.760 324.479
## ORI_14635_14600  667.407 103.2410   41.0972 1046.010 321.382 1195.790 339.558
## ORI_14639_14602 1289.530 113.2310  370.2500 1003.240 316.083 1276.210 298.679
##                   [,4734]  [,4735]  [,4736] [,4737]  [,4738]  [,4739]  [,4740]
## ORI_10219_10218 1025.9600 314.9270  98.6236 2202.73 1364.900 163.5840 331.7460
## ORI_10735_10730  147.9560 218.1930 644.1050 4568.13  839.571 431.1380 263.6140
## ORI_14605_14585  199.5480 181.2180 261.8660 1791.60 1458.870 183.7030 245.4460
## ORI_14607_14586 1223.9400 405.9210 457.6270 2571.54 1006.520 163.8110 201.6150
## ORI_14609_14587  397.0570 100.0770 531.0580 3197.67  927.353 267.8850 209.9150
## ORI_14617_14591 1155.9600 211.8110 316.8260 1639.22 1068.320 193.8200 103.9230
## ORI_14623_14594  736.8200 171.8680 167.6310 1221.81  751.175 141.7990 230.1620
## ORI_14629_14597  176.2910 270.8670 394.7630 1527.67  920.920 152.9280 299.4670
## ORI_14631_14598  408.5840 119.9190 471.1710 2687.25  916.202 280.3220 200.5490
## ORI_14633_14599  253.2820 452.5160 416.7580 2507.32  514.285 117.4780 216.9020
## ORI_14635_14600  382.1210 137.2440 207.7200 1402.31  569.071 172.5280 253.4220
## ORI_14639_14602  257.5830 134.4720 151.1660 2667.92  517.858 145.1890 297.3270
##                 [,4741]  [,4742] [,4743] [,4744] [,4745]  [,4746] [,4747]
## ORI_10219_10218 261.094 256.8250 480.992 157.296 413.855 1508.470 406.452
## ORI_10735_10730 451.674 373.1110 258.189 342.440 381.244  935.547 446.338
## ORI_14605_14585 224.182 301.9560 499.590 247.637 611.091 2044.170 459.530
## ORI_14607_14586 366.108 310.1050 579.890 192.631 670.870 1229.370 401.153
## ORI_14609_14587 329.011 331.5790 407.496 344.753 409.190 1894.400 402.157
## ORI_14617_14591 376.917 296.0580 526.378 111.725 279.568 2028.140 279.455
## ORI_14623_14594 200.733 263.4460 402.191 162.717 261.582 2588.990 344.781
## ORI_14629_14597 470.964 328.8330 331.285 209.419 465.209 2127.460 438.552
## ORI_14631_14598 351.955 192.5420 481.418 260.214 377.119 1849.090 442.263
## ORI_14633_14599 152.624 540.7070 600.324 278.026 258.946 1937.820 430.099
## ORI_14635_14600 391.372 250.3670 587.320 218.573 241.747 2183.490 369.764
## ORI_14639_14602 400.397 251.0330 445.123 121.252 272.031 1738.690 222.743
##                 [,4748] [,4749] [,4750]  [,4751]  [,4752] [,4753] [,4754]
## ORI_10219_10218 160.019 635.701 417.725  476.276  620.418 314.507 2914.28
## ORI_10735_10730 301.797 435.128 489.111  779.037 1051.250 437.682 1966.77
## ORI_14605_14585 188.240 470.704 549.069  582.917  810.857 352.946 2951.11
## ORI_14607_14586 172.515 324.269 835.240  825.414  780.082 381.933 2695.23
## ORI_14609_14587 117.580 386.270 463.404 1035.510  910.107 365.346 3099.86
## ORI_14617_14591 139.836 594.351 397.980  605.246  759.582 483.018 2476.43
## ORI_14623_14594 203.820 597.024 348.248  441.306  805.299 303.316 2769.86
## ORI_14629_14597 161.295 393.121 333.666  817.745 1116.490 298.956 3200.68
## ORI_14631_14598 204.647 674.392 479.438  707.234 1201.550 392.077 2678.58
## ORI_14633_14599 177.932 333.562 510.006  408.744  903.518 340.023 2998.85
## ORI_14635_14600 248.933 562.759 425.325  716.920 1012.610 348.637 2579.77
## ORI_14639_14602 388.233 337.746 355.859  484.042 1019.500 325.271 2400.63
##                  [,4755]  [,4756] [,4757]  [,4758] [,4759] [,4760]  [,4761]
## ORI_10219_10218 1418.450  733.404 697.657 1360.930 494.996 286.588  653.305
## ORI_10735_10730 1623.880  719.139 359.255 1219.300 962.292 346.888  855.076
## ORI_14605_14585 1633.870  710.818 457.433 1226.830 795.360 398.900  975.596
## ORI_14607_14586  878.525  717.180 394.405 1080.680 593.759 237.397 1171.800
## ORI_14609_14587 2142.080  755.392 321.311  810.877 723.252 352.200 1427.070
## ORI_14617_14591 1334.190 1008.890 239.469 1362.000 647.684 196.363  748.747
## ORI_14623_14594 1203.710  838.590 452.130 1966.690 752.053 294.855  836.644
## ORI_14629_14597 1532.190  846.146 409.135 1266.540 520.031 249.694  925.547
## ORI_14631_14598 1940.640  874.502 229.233 1113.290 697.887 270.107 1294.700
```

```
## ORI_14633_14599 1231.890  796.629 511.969 1200.610 662.549 350.566  607.540
## ORI_14635_14600  688.360  790.164 454.386 2276.950 756.300 235.344  981.740
## ORI_14639_14602  844.240  607.841 345.528 1040.380 735.066 390.560  505.201
##                  [,4762]  [,4763]  [,4764]  [,4765]   [,4766] [,4767]   [,4768]
## ORI_10219_10218 3282.170  575.538  24.6827 107.3470   24.6827 2196.64  226.3220
## ORI_10735_10730 2653.610  849.749  32.6199  85.2211   24.6827 2059.47  496.9040
## ORI_14605_14585 3692.690  606.844  24.6827  90.8282   24.6827 1946.55  180.6250
## ORI_14607_14586 1143.620 1088.750 474.9380 233.3800   53.8900 1727.77  100.9320
## ORI_14609_14587 1235.920  719.654  24.6827  71.9913   24.6827 1382.14  151.0410
## ORI_14617_14591 2469.510 1292.250  24.6827  80.1477   24.6827 1215.83  197.8280
## ORI_14623_14594 3230.490 1073.300  24.6827  99.6053   24.6827 2023.06  222.4460
## ORI_14629_14597 1873.310  507.023  33.4987  82.7915   24.6827 1585.36  177.0030
## ORI_14631_14598 1953.740  983.476  28.4617  96.2948   24.6827 1645.12  197.1680
## ORI_14633_14599 3477.950  750.078  24.9040 101.8290   24.6827 1803.99  267.4560
## ORI_14635_14600 3049.900  663.138  24.6827  80.2529   24.6827 1741.87  146.9370
## ORI_14639_14602 1948.790  768.141  24.6827  87.0102   24.6827 1810.81  468.2840
##                  [,4769]  [,4770]  [,4771]  [,4772] [,4773]   [,4774] [,4775]
## ORI_10219_10218  328.663  520.609  869.382  62.0251 188.599  167.7760 185.110
## ORI_10735_10730  448.971  715.582  885.572  58.9336 135.948  528.6360 246.427
## ORI_14605_14585  365.770  859.855  992.059  26.7962 149.054  167.4960 234.167
## ORI_14607_14586  730.421 1661.280  633.695 210.6920 157.479 1280.7000 300.515
## ORI_14609_14587  345.143  565.251  623.745  59.4309 109.004  140.2620 169.466
## ORI_14617_14591  214.835  228.327  522.659  34.5594 144.554  117.3780 184.725
## ORI_14623_14594  515.519  481.794  803.476  68.8449 185.989  155.9210 255.318
## ORI_14629_14597  423.250  299.796  901.758  80.4633 158.758  229.2980 194.830
## ORI_14631_14598  452.762  725.512  618.821  85.1062 142.094  601.1550 254.304
## ORI_14633_14599  483.836  603.545  895.059  50.4677 162.202  154.4400 220.273
## ORI_14635_14600  446.419  439.992  781.253  48.0371 175.408  187.6560 227.842
## ORI_14639_14602  425.814  671.545  758.391  46.1730 185.318 1389.3300 220.185
##                 [,4776] [,4777]  [,4778] [,4779]  [,4780]  [,4781]  [,4782]
## ORI_10219_10218 233.005 530.973 102.8500 295.851 153.9410  96.8290  889.191
## ORI_10735_10730 344.912 514.244 162.6480 392.078 255.4860 143.8410  290.039
## ORI_14605_14585 346.289 476.633 122.3190 306.536 257.3630 154.2370  683.141
## ORI_14607_14586 426.364 488.123 235.2200 413.160 493.1980  87.9641 1286.290
## ORI_14609_14587 379.435 374.282 103.7640 401.086 300.1980 416.3490  882.085
## ORI_14617_14591 227.949 588.848 190.5390 432.664  67.7551  90.6654  530.705
## ORI_14623_14594 151.710 392.433 196.7250 409.859  80.7733  94.7377  733.479
## ORI_14629_14597 251.091 705.923  70.8619 270.676 130.7080 114.0230 1153.130
## ORI_14631_14598 337.925 393.090  67.5768 356.302 198.1490 128.6790 1062.220
## ORI_14633_14599 337.710 366.481 232.0480 574.926 233.9410 124.9540  612.059
## ORI_14635_14600 253.806 418.507 140.0400 571.736 118.7790 150.1340  550.463
## ORI_14639_14602 271.263 519.450 102.7790 422.830  72.5269  95.0352  655.487
##                  [,4783]  [,4784] [,4785]   [,4786] [,4787]   [,4788] [,4789]
## ORI_10219_10218  840.712 1589.240 326.767 3487.3100 305.666  838.9060 439.336
## ORI_10735_10730  726.707  564.803 270.386   49.5576 334.716   69.7444 642.974
## ORI_14605_14585  761.399  526.965 322.031 1488.8000 346.203 1422.4300 550.387
## ORI_14607_14586 1152.810  746.366 215.880  162.0020 298.313  230.2500 685.322
## ORI_14609_14587  861.719  679.219 219.678  625.1470 455.674  495.9240 283.882
## ORI_14617_14591 1207.200 1868.620 200.718  339.1100 308.124  453.6340 311.331
## ORI_14623_14594  612.661  969.125 223.076  915.3540 238.337  337.5280 732.356
## ORI_14629_14597  617.044  673.516 265.338  221.6720 443.841  248.2710 660.498
## ORI_14631_14598  733.359  684.936 278.471  102.8570 344.737  115.0580 473.694
## ORI_14633_14599  747.036  788.906 256.756  171.8230 358.114  218.5370 524.154
## ORI_14635_14600  653.348  834.158 275.726  745.8490 304.729  661.9050 543.299
```

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## ORI_14639_14602  727.926  697.717 289.660   83.4743 160.117  197.4780 538.025
##                  [,4790] [,4791] [,4792] [,4793] [,4794]   [,4795]   [,4796]
## ORI_10219_10218  681.272 3008.19 2480.93 293.959 186.228  702.8460  372.8230
## ORI_10735_10730  543.876 1855.77 2130.89 252.929 377.104  285.1970   97.3645
## ORI_14605_14585  676.463 2966.88 2415.14 356.342 258.742  289.5400  185.2660
## ORI_14607_14586  864.951 3108.43 2707.43 199.640 187.725  471.4700  317.4460
## ORI_14609_14587  820.263 3063.79 2752.98 304.516 280.953  558.8000  725.0930
## ORI_14617_14591  774.448 3030.23 2712.40 175.692 204.957  624.5440  116.4970
## ORI_14623_14594  665.510 3084.11 2784.01 115.145 200.985  350.6190  115.2470
## ORI_14629_14597  639.323 3153.82 2430.61 146.966 249.700  208.5640  101.2970
## ORI_14631_14598  845.345 3118.88 2425.56 138.928 341.273  480.2290  975.2040
## ORI_14633_14599 1085.970 3514.62 2573.48 275.848 195.716  356.0150  100.3900
## ORI_14635_14600  743.310 2813.56 2575.65 186.346 203.007  310.4720   90.1875
## ORI_14639_14602  728.515 2647.76 2427.89 199.978 274.012  472.5850   94.0731
##                  [,4797] [,4798] [,4799] [,4800] [,4801]  [,4802]  [,4803]
## ORI_10219_10218 217.6780 424.979 157.912 491.127 341.136  418.330 291.8500
## ORI_10735_10730 697.7990 665.208 285.419 446.522 443.918  330.593 331.3590
## ORI_14605_14585 366.3600 604.894 211.242 411.172 390.301  392.417 277.4860
## ORI_14607_14586 551.3790 252.625 323.678 461.803 509.250  702.983 162.3510
## ORI_14609_14587 452.8880 718.557 244.147 435.060 544.824  459.026 188.2710
## ORI_14617_14591 430.5710 544.631 270.569 447.278 519.670  401.997 215.5470
## ORI_14623_14594 233.4790 371.992 199.738 555.454 465.809  178.681 218.6820
## ORI_14629_14597 420.7090 612.488 266.692 572.916 286.181  187.561 224.0520
## ORI_14631_14598 596.6690 550.207 302.416 466.625 446.433  472.083 172.6290
## ORI_14633_14599 555.0620 364.746 175.806 454.388 452.877  266.212 196.7720
## ORI_14635_14600 349.2090 369.768 214.596 583.452 419.866  252.513 246.8140
## ORI_14639_14602 376.6520 269.197 308.654 502.681 450.865  201.925 285.5470
##                 [,4804] [,4805] [,4806] [,4807]  [,4808]  [,4809] [,4810]
## ORI_10219_10218 347.013 328.463 270.261 228.557  593.193 277.8300 213.251
## ORI_10735_10730 288.911 430.020 413.454 469.581  830.269 110.2110 241.019
## ORI_14605_14585 260.851 444.194 390.327 394.391  639.847 341.8210 214.354
## ORI_14607_14586 236.498 375.059 370.968 344.112  683.426 327.0210 248.121
## ORI_14609_14587 265.739 595.250 307.634 394.034  628.273 390.2970 207.188
## ORI_14617_14591 171.971 470.575 337.877 241.058  396.534 284.0900 211.770
## ORI_14623_14594 235.738 320.952 309.292 227.524  545.285 376.7350 185.193
## ORI_14629_14597 208.817 405.412 272.328 322.176  437.836 568.6690 256.713
## ORI_14631_14598 157.136 494.398 290.807 424.289  562.759 422.5780 271.979
## ORI_14633_14599 333.914 358.148 466.321 416.754  713.641 276.9890 233.653
## ORI_14635_14600 244.023 374.238 392.164 447.550  502.236 345.6140 165.628
## ORI_14639_14602 214.365 214.680 420.324 232.061  915.659 296.4370 187.010
##                  [,4811]  [,4812]  [,4813]  [,4814]  [,4815] [,4816] [,4817]
## ORI_10219_10218  333.5690  943.671 1674.400 1362.220  913.571 221.322 184.934
## ORI_10735_10730  431.3280 2032.220 2065.790 1365.850  733.560 392.518 270.746
## ORI_14605_14585  352.8880  927.673 2138.100 1422.010 1098.660 366.143 212.096
## ORI_14607_14586 1587.5300 1186.710 2834.600 1948.110 1060.400 394.881 153.628
## ORI_14609_14587  648.8320 1389.190 2386.300 1729.570 1452.170 339.688 226.173
## ORI_14617_14591  100.3620  588.753 1139.480 1294.230  914.974 213.210 140.267
## ORI_14623_14594  237.6630 1012.400 1564.570 1186.870  887.405 257.439 172.070
## ORI_14629_14597  197.2610 1513.640 2009.710 1357.210 1089.660 291.768 252.816
## ORI_14631_14598 1391.2200 1297.770 2561.300 1872.600 1467.310 375.718 344.770
## ORI_14633_14599  213.0750  826.271 1519.300 1211.230 1160.560 261.353 250.250
## ORI_14635_14600  208.4180  711.316 1683.060 1325.440  811.552 360.340 175.261
## ORI_14639_14602  182.3950  798.729 1812.570 1149.360  843.602 360.177 303.719
##                  [,4818]  [,4819] [,4820] [,4821] [,4822]  [,4823]  [,4824]
```

```
## ORI_10219_10218  99.5054  489.159 353.224 231.079 512.398 217.3050  452.682
## ORI_10735_10730 332.1830  936.428 414.819 276.608 567.298 259.4010  387.404
## ORI_14605_14585 139.0510  462.374 411.450 233.646 475.030 313.0780  299.102
## ORI_14607_14586 157.9020  599.024 355.109 435.940 615.499 209.6990  316.797
## ORI_14609_14587 232.3960  657.643 440.674 307.289 593.303 424.7370  309.101
## ORI_14617_14591 120.2680  591.149 398.995 138.692 503.609 175.1260  275.380
## ORI_14623_14594 130.8440  578.087 371.200 172.663 359.420 275.6420  309.932
## ORI_14629_14597 122.2850  424.343 317.946 382.399 464.009 142.8560  271.451
## ORI_14631_14598 271.5760  739.498 477.721 367.629 547.160 371.8270  337.467
## ORI_14633_14599 169.7050  945.315 422.422 293.768 575.335 340.0880  314.531
## ORI_14635_14600 160.4580  566.313 435.946 153.597 515.124 269.6310  271.730
## ORI_14639_14602 134.3640  692.276 405.748 277.807 387.149 208.0560  253.237
##                  [,4825] [,4826]  [,4827] [,4828]  [,4829]  [,4830] [,4831]
## ORI_10219_10218  677.664 262.507  714.519 494.756  469.140  794.469 384.607
## ORI_10735_10730  665.194 443.114  942.845 438.847  889.575  816.111 483.044
## ORI_14605_14585  814.074 355.081  859.531 410.941  615.028  799.165 573.960
## ORI_14607_14586  852.157 405.623  726.442 445.773  708.804  976.219 496.567
## ORI_14609_14587 1048.130 442.371  901.955 380.584  846.015  940.648 730.894
## ORI_14617_14591  867.745 231.511  779.511 506.072  648.866  662.736 466.718
## ORI_14623_14594  642.266 244.534  535.451 382.126  572.880  734.153 297.000
## ORI_14629_14597  687.544 371.223  826.550 361.860  574.792  804.565 304.823
## ORI_14631_14598 1183.540 480.051  952.289 566.466  910.359 1111.770 461.734
## ORI_14633_14599  535.716 298.386 1012.070 482.990  876.952  812.920 590.760
## ORI_14635_14600  718.081 268.953  870.764 573.104  912.757 1055.790 401.279
## ORI_14639_14602  414.155 391.672  606.083 424.349  753.447  833.488 441.263
##                  [,4832] [,4833] [,4834] [,4835] [,4836]  [,4837] [,4838]
## ORI_10219_10218 170.2210 209.517 291.034 590.496 573.153  24.6827 245.265
## ORI_10735_10730 220.1350 228.154 598.327 736.074 313.466 377.3210 358.502
## ORI_14605_14585 202.0380 269.268 349.071 725.561 422.188 148.4420 303.201
## ORI_14607_14586 258.3440 246.615 351.609 597.352 310.033 210.3180 262.242
## ORI_14609_14587 300.8230 389.626 345.289 754.065 255.511 335.4830 385.336
## ORI_14617_14591 150.8470 207.749 360.526 554.750 204.629 112.0700 336.158
## ORI_14623_14594  73.8237 181.953 362.998 504.846 433.100 174.4740 314.325
## ORI_14629_14597 193.1750 261.016 434.587 585.280 382.570 324.8730 346.967
## ORI_14631_14598 162.4290 341.867 453.384 742.926 355.644 245.9460 349.594
## ORI_14633_14599 293.5200 347.272 407.013 742.570 376.641 408.8130 353.068
## ORI_14635_14600 198.5470 251.295 351.914 487.015 398.672 297.2700 228.319
## ORI_14639_14602 129.8480 332.930 470.113 528.822 317.352 291.1290 289.251
##                 [,4839]  [,4840] [,4841] [,4842] [,4843]  [,4844] [,4845]
## ORI_10219_10218 244.821  495.513 372.947 430.156 356.862  225.895 318.056
## ORI_10735_10730 238.469  578.064 526.572 466.756 650.172  471.422 498.049
## ORI_14605_14585 325.886  671.955 449.201 389.432 427.040  430.631 324.802
## ORI_14607_14586 182.063  579.159 453.463 424.539 496.915  159.548 256.808
## ORI_14609_14587 207.628  654.239 422.357 561.042 525.898  269.296 279.371
## ORI_14617_14591 200.373  565.303 384.196 489.784 309.613  186.447 178.239
## ORI_14623_14594 367.391  587.334 442.181 439.789 518.778  143.607 274.539
## ORI_14629_14597 146.926  760.999 283.825 364.122 482.269  261.958 245.139
## ORI_14631_14598 205.878  758.892 461.393 557.456 592.215  307.059 428.494
## ORI_14633_14599 302.902  641.619 404.993 449.525 525.175  265.794 331.755
## ORI_14635_14600 471.785  667.007 468.308 522.029 500.130  244.878 344.635
## ORI_14639_14602 236.797  614.212 432.378 499.992 567.306  278.346 485.651
##                 [,4846] [,4847] [,4848] [,4849] [,4850] [,4851] [,4852]
## ORI_10219_10218 338.272 331.806 474.200 416.432 253.992 419.393 245.994
## ORI_10735_10730 341.453 613.388 632.470 372.457 589.738 267.357 209.518
```

```
## ORI_14605_14585 440.862 314.099 589.776 332.304 412.685 311.205 270.670
## ORI_14607_14586 514.628 333.227 550.114 271.334 292.350 407.594 175.358
## ORI_14609_14587 398.266 326.706 550.560 440.377 457.680 440.117 337.365
## ORI_14617_14591 360.129 467.741 539.479 442.132 267.122 555.534 228.659
## ORI_14623_14594 353.196 267.667 440.492 240.580 289.420 298.057 323.403
## ORI_14629_14597 322.220 359.117 654.395 391.080 352.160 343.427 216.461
## ORI_14631_14598 413.389 390.661 593.075 447.928 435.509 391.399 284.730
## ORI_14633_14599 464.864 261.605 622.592 379.879 533.838 424.165 224.259
## ORI_14635_14600 437.818 371.987 620.630 480.455 281.684 441.415 368.735
## ORI_14639_14602 352.153 530.631 647.782 326.819 331.240 224.402 257.820
##                  [,4853] [,4854] [,4855]  [,4856] [,4857]  [,4858]   [,4859]
## ORI_10219_10218  480.861 417.940 683.110  306.674 275.377 1509.430  122.3350
## ORI_10735_10730  707.017 522.329 810.158  469.318 423.502  672.881  352.3510
## ORI_14605_14585  561.959 395.736 697.181  311.962 376.975  369.540  606.3680
## ORI_14607_14586  611.334 417.619 597.557  473.283 351.304  812.382 1230.4900
## ORI_14609_14587  688.675 377.099 841.102  670.615 339.856 1050.620  568.0920
## ORI_14617_14591  575.819 419.840 766.525  370.952 351.292 1610.910   88.6839
## ORI_14623_14594  420.056 248.539 655.081  280.650 371.651 1045.390  168.8010
## ORI_14629_14597  810.916 389.928 706.539 1221.110 603.163  546.593   96.4185
## ORI_14631_14598  848.960 440.499 849.029  361.498 533.634 1107.410  758.8780
## ORI_14633_14599  635.509 337.126 718.009  366.067 377.159  615.275  500.9470
## ORI_14635_14600  559.406 325.538 734.438  385.772 293.634  828.151  400.7400
## ORI_14639_14602  505.465 356.187 685.190  376.121 556.169  586.341  119.2220
##                  [,4860]  [,4861]  [,4862] [,4863]  [,4864]  [,4865] [,4866]
## ORI_10219_10218  456.530  197.887 101.9610 247.224  912.278  74.5067 397.831
## ORI_10735_10730  721.232  733.335 168.4820 429.512 2091.080 272.7380 497.927
## ORI_14605_14585 1131.300  259.953 115.0290 393.091 1237.720 211.5310 365.453
## ORI_14607_14586 1556.640  382.593  88.9450 268.920 1720.350 539.7550 396.838
## ORI_14609_14587  990.885  472.742 152.0650 381.449 2106.790 431.2810 441.797
## ORI_14617_14591  534.788  157.789 133.2080 281.856  489.073  25.2344 392.767
## ORI_14623_14594  687.124  220.407 118.2490 270.160  396.762  30.4753 349.478
## ORI_14629_14597  722.308  786.685 153.0040 303.151 1417.360  74.8925 229.982
## ORI_14631_14598  944.850  420.231 108.2570 346.427 1783.760 274.5920 439.115
## ORI_14633_14599 1069.740  466.628 130.3570 382.149  514.713 121.8020 327.080
## ORI_14635_14600  918.697  117.638 160.4060 495.941  431.562 140.2570 343.266
## ORI_14639_14602  543.200  548.811 113.1930 543.695 1344.590  56.5928 593.220
##                  [,4867]  [,4868]  [,4869]  [,4870]   [,4871] [,4872] [,4873]
## ORI_10219_10218  948.050 122.2100  232.234 2629.110 2532.5100 3339.81 2614.26
## ORI_10735_10730  855.183 257.5040  315.575 2681.420 3632.4500 4730.85 4336.44
## ORI_14605_14585  763.880 239.0600  223.758 2258.500 2753.4100 3665.46 3310.04
## ORI_14607_14586 1098.990 173.4980  391.085 2988.340 2708.0700 3911.82 4017.32
## ORI_14609_14587  724.781 280.8580  586.916 4010.340 4285.7100 5840.97 5893.90
## ORI_14617_14591 1007.310 286.4170  267.494 2738.670 2673.3900 3154.80 2987.85
## ORI_14623_14594  891.785 184.0240  253.532 2175.410 2445.6100 3240.97 2354.44
## ORI_14629_14597  401.641 504.0660  147.916 2302.210 2603.8400 3690.33 3502.50
## ORI_14631_14598  646.640 220.3320  276.802 3538.530 4064.4200 5498.65 5259.22
## ORI_14633_14599  929.418 303.1980  212.527 2224.720 2804.9900 5292.19 5485.16
## ORI_14635_14600  775.962 227.6650  224.629 1804.120 1989.2300 2976.38 2917.02
## ORI_14639_14602  422.362 241.5500  153.062 1061.940 1873.2000 2588.56 1904.42
##                   [,4874] [,4875]  [,4876]  [,4877]  [,4878]  [,4879]  [,4880]
## ORI_10219_10218  300.2940 3246.52  3962.06 4102.340  223.871  503.620  159.865
## ORI_10735_10730  457.5190 5515.71  6751.14 1720.920  420.317  881.156  608.406
## ORI_14605_14585  189.2860 3668.94  5784.31 1894.340  343.659  580.137  271.665
## ORI_14607_14586  332.8850 4739.24  6816.06 2010.260  556.529  469.978  113.623
```

```
## ORI_14609_14587 1119.9800 6773.86  8742.61 2964.550  734.914  767.724  336.099
## ORI_14617_14591  352.2300 3529.51  4452.04 2047.590  389.611  517.172  145.470
## ORI_14623_14594  316.9360 3198.92  4388.03 2237.940  276.142  522.412  304.378
## ORI_14629_14597  152.9630 4190.91  5820.21 3122.370  366.371  261.150  246.165
## ORI_14631_14598  723.5130 6335.13  8177.11 3894.410  745.613  356.575  414.900
## ORI_14633_14599  125.3670 5987.93  8882.22 1562.600  713.425  679.731  271.949
## ORI_14635_14600  114.7110 3341.40  4344.37 1478.890  347.730  669.790  355.532
## ORI_14639_14602  117.7350 2408.10  3506.03 2415.970  238.660  600.287  712.629
##                 [,4881]  [,4882]  [,4883] [,4884] [,4885]  [,4886] [,4887]
## ORI_10219_10218 4818.52  523.927  502.910 246.878 354.883  174.951 463.989
## ORI_10735_10730 3650.06  984.567  607.922 358.826 698.511  603.563 337.785
## ORI_14605_14585 3961.21  648.944  613.146 333.420 425.695  424.431 418.271
## ORI_14607_14586 3746.55  878.355  528.872 255.224 290.175  573.705 341.013
## ORI_14609_14587 3402.82  728.789  767.356 291.185 613.162  664.237 295.721
## ORI_14617_14591 4535.71  487.114  340.309 192.740 385.076  381.847 383.203
## ORI_14623_14594 4162.03  529.108  501.381 301.912 446.670  611.916 605.416
## ORI_14629_14597 2439.75  556.873  526.562 349.971 537.379  124.468 458.597
## ORI_14631_14598 3521.79  922.732  601.581 240.925 502.803  645.826 459.582
## ORI_14633_14599 3800.49  952.676  680.932 276.079 621.830 1814.220 477.333
## ORI_14635_14600 3377.22  511.363  551.477 286.912 411.735 1365.180 569.992
## ORI_14639_14602 2922.76  861.240  271.468 253.592 517.074  504.776 470.963
##                 [,4888]  [,4889]  [,4890]  [,4891] [,4892] [,4893] [,4894]
## ORI_10219_10218 210.270  432.840 225.0830  412.579 645.299 469.003 347.023
## ORI_10735_10730 185.129  680.116 219.2010  889.928 521.537 366.049 315.577
## ORI_14605_14585 190.058  493.292 187.5880  577.793 575.998 413.035 304.127
## ORI_14607_14586 227.693  588.556 287.4110  544.854 538.002 566.742 353.996
## ORI_14609_14587 151.850  686.743 218.9470  768.748 612.145 661.078 339.127
## ORI_14617_14591 221.015  789.657 188.6730  678.124 668.407 585.309 582.740
## ORI_14623_14594 253.135  596.096 244.8440  421.146 528.232 348.409 473.288
## ORI_14629_14597 232.827  724.947 226.6300  542.873 577.956 351.794 431.623
## ORI_14631_14598 221.486  548.738 220.7080  506.135 575.758 574.969 481.359
## ORI_14633_14599 194.074  854.663 364.6100  731.150 585.227 387.248 303.327
## ORI_14635_14600 171.301  638.517 309.4770  443.934 591.537 452.866 422.026
## ORI_14639_14602 143.076  745.952 172.2370  490.226 849.502 431.957 380.132
##                 [,4895]  [,4896]  [,4897] [,4898] [,4899] [,4900] [,4901]
## ORI_10219_10218 473.188  959.188 440.1790 563.675 313.616 440.087 107.926
## ORI_10735_10730 421.583 1416.690 108.0820 695.383 427.541 403.735 145.598
## ORI_14605_14585 501.861 1305.810 242.3720 467.633 415.837 397.773 182.942
## ORI_14607_14586 344.429 1320.120 124.0160 642.837 376.585 343.534 264.417
## ORI_14609_14587 559.800  833.738 191.6600 402.713 472.895 402.951 156.208
## ORI_14617_14591 470.829 1111.280  66.3432 516.493 386.134 498.440 237.418
## ORI_14623_14594 428.912 1196.570 164.6620 620.748 360.864 417.151 248.971
## ORI_14629_14597 529.839  718.802 159.0720 491.781 487.393 279.505 151.663
## ORI_14631_14598 707.612 1022.350 252.7480 530.053 474.051 458.955 203.754
## ORI_14633_14599 498.977 1657.500 117.1900 567.952 420.021 418.440 179.662
## ORI_14635_14600 493.366 1195.010 129.6440 579.844 481.969 396.145 192.503
## ORI_14639_14602 393.670 1636.270  79.4920 666.758 332.949 337.160 164.616
##                 [,4902] [,4903] [,4904] [,4905] [,4906]  [,4907]  [,4908]
## ORI_10219_10218 453.545 335.953 273.174 335.324 294.717  991.989  707.869
## ORI_10735_10730 481.626 255.118 367.134 352.516 526.246  508.168 1152.880
## ORI_14605_14585 463.823 349.351 344.676 370.533 443.008  272.500 1313.650
## ORI_14607_14586 459.122 362.653 361.391 272.777 516.807  549.095 1953.750
## ORI_14609_14587 285.829 208.534 388.629 377.264 495.335  684.841 1304.510
## ORI_14617_14591 231.573 329.746 451.716 377.673 443.391  703.070  357.399
```

```
## ORI_14623_14594 484.368 254.515 288.746 230.823 587.791  892.932  471.609
## ORI_14629_14597 454.316 359.909 336.612 163.513 482.779  836.348  764.875
## ORI_14631_14598 384.917 286.327 431.178 268.799 463.443  886.407 1284.490
## ORI_14633_14599 488.951 274.237 407.544 453.616 466.130  837.143  705.229
## ORI_14635_14600 424.942 315.915 341.907 243.693 644.527  736.626  567.123
## ORI_14639_14602 434.912 291.820 145.925 415.927 545.764  628.433  544.546
##                   [,4909]  [,4910] [,4911] [,4912]  [,4913]   [,4914]  [,4915]
## ORI_10219_10218  377.1080 261.0740 432.489 392.029 2060.580 1575.9500  74.5311
## ORI_10735_10730  769.5280 279.3170 344.277 378.898 1271.350 1091.6900 222.7390
## ORI_14605_14585 1184.3400 735.5500 437.735 368.009 2119.880  777.0660 122.3680
## ORI_14607_14586  626.1390 478.7250 300.893 662.679 1459.530  956.3670  48.7515
## ORI_14609_14587 1002.3600 690.6960 220.258 367.491 1520.320  968.0850 118.5660
## ORI_14617_14591  367.2260 106.6310 284.248 376.538 2211.050 1692.0400  50.6990
## ORI_14623_14594  389.2650 158.8330 428.227 449.685 1771.530 1113.4500  84.1073
## ORI_14629_14597  131.8690  87.7872 395.253 390.310 1303.270  182.8730  45.9063
## ORI_14631_14598  440.6810 170.0970 351.308 385.313 1228.600  721.1380 134.8560
## ORI_14633_14599  136.9890 170.5880 343.896 474.546 1225.720 1465.1900  86.0832
## ORI_14635_14600  329.1460 224.8910 435.868 349.863 2009.530  902.4230  57.1659
## ORI_14639_14602  116.3270 100.1180 409.667 268.198  955.136 1007.2100 343.3780
##                 [,4916]  [,4917]  [,4918]   [,4919]  [,4920] [,4921]  [,4922]
## ORI_10219_10218 194.606  855.020  24.6827  115.8850  940.063 229.265 438.9870
## ORI_10735_10730 338.247  154.316  24.6827  569.1940  365.973 430.667 297.4820
## ORI_14605_14585 370.318  910.749  24.6827  233.0980  648.189 377.663 190.0050
## ORI_14607_14586 364.015  478.698  24.6827  839.5190  808.862 608.885 106.8990
## ORI_14609_14587 283.837 1383.080  24.6827  368.4950  817.867 688.433 126.6290
## ORI_14617_14591 178.560  560.435  24.6827  346.5510 1419.330 512.656  33.1261
## ORI_14623_14594 231.887  386.448  24.6827  693.3330  898.257 433.854 290.0720
## ORI_14629_14597 270.263  149.531  74.7680  193.3550  452.728 363.152 237.8140
## ORI_14631_14598 265.935 1803.570  79.5311  352.6900  778.902 311.826 191.5910
## ORI_14633_14599 301.507  285.412  24.6827  523.3690  734.816 502.868 216.8870
## ORI_14635_14600 352.331  300.434  24.6827  290.0750  721.960 576.408 270.4940
## ORI_14639_14602 505.192  111.235  24.6827  243.3240  563.819 347.173 222.6870
##                  [,4923]  [,4924] [,4925]  [,4926]  [,4927] [,4928]   [,4929]
## ORI_10219_10218  278.860 1154.360 4581.20 423.5850  746.376 2109.58   83.8201
## ORI_10735_10730  863.206 1370.950 3930.32 317.9450 2256.920 2336.03  145.5440
## ORI_14605_14585  464.820  997.985 3931.02 270.6070 1564.570 2897.26   95.4488
## ORI_14607_14586  907.255  836.390 4147.49 291.0160 2071.180 3778.54  836.2940
## ORI_14609_14587  674.417  903.296 4460.96 255.6600 1804.630 3291.92  202.5800
## ORI_14617_14591  200.223 1849.400 4400.13 297.6580  958.611 2170.01   24.6827
## ORI_14623_14594  234.721 1213.360 3873.77 521.7700 1088.930 1911.85   72.0514
## ORI_14629_14597  320.073 1041.660 3470.52 479.7890  887.566 2416.68   24.6827
## ORI_14631_14598  715.885 1192.600 4548.69 364.5190 2188.890 3129.94  369.0070
## ORI_14633_14599  557.821 1194.530 4695.13 430.2410 1172.920 2859.07   24.6827
## ORI_14635_14600  255.629 1098.980 3732.91 380.2590  939.282 2090.97   24.6827
## ORI_14639_14602  487.353  931.283 3631.19 417.3460 1233.080 2083.23  104.1740
##                  [,4930]   [,4931]  [,4932] [,4933]  [,4934]  [,4935]  [,4936]
## ORI_10219_10218 158.8200  729.2010  929.381 268.827  629.562 214.3930 149.1750
## ORI_10735_10730 108.8600  153.6790 1018.310 420.169  454.384  24.7665 192.2750
## ORI_14605_14585 330.2430  993.9530 1255.030 269.605  854.588 204.0520 373.8380
## ORI_14607_14586 272.7210 1021.1300  793.612 392.289  724.696 121.7390 214.5050
## ORI_14609_14587 273.6550 1560.1000 1034.570 243.243 1005.590  63.4210 267.7510
## ORI_14617_14591 291.1060  474.2350 1463.280 200.418  639.855  24.6827  86.9398
## ORI_14623_14594 135.4820  410.8440 1362.400 324.677  984.813  24.6827  77.4190
## ORI_14629_14597 102.3680  114.8700 1504.940 251.888  951.932  24.6827 197.8170
```

```
## ORI_14631_14598 178.4800  628.9490 1394.180 340.236  862.789  24.6827 228.1020
## ORI_14633_14599 132.3380   92.2282 1506.720 315.164  737.020  24.6827  55.0971
## ORI_14635_14600 221.2820  362.4540  992.264 271.456  901.473  40.4799 149.8230
## ORI_14639_14602 126.9260  201.6350 1402.830 435.144  790.506  24.6827  94.7138
##                  [,4937] [,4938]  [,4939]  [,4940]  [,4941] [,4942]  [,4943]
## ORI_10219_10218  416.208 274.403  476.572  609.634 162.6620 703.925 249.7160
## ORI_10735_10730  496.865 241.466  309.595  509.001 236.5030 275.647 207.2330
## ORI_14605_14585  425.005 223.626  532.777  682.284 210.8850 544.211 174.6350
## ORI_14607_14586 1073.740 291.670  331.768  356.197 382.0730 363.910 120.4100
## ORI_14609_14587  645.204 253.863  881.944  865.743 414.3320 666.244 168.7890
## ORI_14617_14591  166.309 200.134  416.100  547.282  99.2979 523.560 189.1520
## ORI_14623_14594  186.776 259.178  565.472  509.007 146.9170 811.934 294.4490
## ORI_14629_14597  284.048 318.591  750.376  428.942 160.0060 429.060 164.8640
## ORI_14631_14598  526.857 262.044  657.792  491.686 266.2670 686.716 235.8520
## ORI_14633_14599  380.600 151.270  506.046  705.906 206.5060 460.960 184.9510
## ORI_14635_14600  302.745 202.800  645.077  658.997 169.7600 582.409 258.2480
## ORI_14639_14602  192.223 212.288  436.886  366.083 212.7760 439.868 168.7850
##                 [,4944]  [,4945]  [,4946]  [,4947] [,4948]  [,4949]  [,4950]
## ORI_10219_10218 257.904 216.5510 1505.090 190.4630 152.090 157.2460 520.4170
## ORI_10735_10730 276.844 195.1310 1532.700 119.0700 100.144 160.9130 190.0290
## ORI_14605_14585 445.551 215.3220 1470.110  81.0336 281.297  28.4630 150.1700
## ORI_14607_14586 357.003 167.8820 2190.880  87.2574 377.508  46.9595 198.9530
## ORI_14609_14587 273.422 131.3040 1695.430 219.6290 230.887  93.1572 255.1390
## ORI_14617_14591 250.433  92.4784 1870.220 170.9110 231.913 213.6950 557.8090
## ORI_14623_14594 261.171 263.3880 1843.930 127.7570 365.930  76.8268 492.1390
## ORI_14629_14597 328.112 224.3580 1179.960 109.5340 483.191 111.3220 180.3930
## ORI_14631_14598 263.731 178.5840 1927.780 226.2260 260.563 109.6090 197.9810
## ORI_14633_14599 212.896 254.3880 1754.830 104.8230 294.082  24.6827 198.2780
## ORI_14635_14600 301.588 249.1990 1679.960  92.8682 340.696  24.6827 195.6260
## ORI_14639_14602 373.011 238.7980  927.143  82.3030 335.398  24.6827 136.1170
##                 [,4951]  [,4952]  [,4953]   [,4954]  [,4955]  [,4956] [,4957]
## ORI_10219_10218 460.496  673.255  819.522  970.7130  445.351  919.208 240.896
## ORI_10735_10730 420.759  795.312  855.762   45.9454  487.762 1671.690 294.077
## ORI_14605_14585 498.104  784.012 1200.220  114.7920  475.601 1530.360 319.440
## ORI_14607_14586 475.158  528.819  914.162  461.0470 1097.310 2565.280 564.469
## ORI_14609_14587 489.887  571.978 1145.810  259.1390  473.409 2924.170 395.151
## ORI_14617_14591 488.000  518.459 1075.420 1572.5400  497.207 2470.690 275.820
## ORI_14623_14594 588.933  870.303  916.336  762.0710  496.098 2284.710 252.454
## ORI_14629_14597 587.574  913.844 1012.460  103.3480  632.139 2670.040 229.187
## ORI_14631_14598 508.469  595.393 1017.710  145.0870  565.082 2119.490 475.288
## ORI_14633_14599 638.019  976.635 1400.800  236.6220  527.024 1326.030 304.768
## ORI_14635_14600 759.577  840.182 1145.690  454.9240  472.034 2638.440 372.495
## ORI_14639_14602 546.820 1092.980 1371.820  138.6510  493.110 1810.700 302.955
##                 [,4958]  [,4959] [,4960]  [,4961] [,4962] [,4963]  [,4964]
## ORI_10219_10218 151.111  253.158 3254.66  590.927 353.453 240.179  441.789
## ORI_10735_10730 222.141  298.684 3478.66  932.942 367.058 413.975  657.850
## ORI_14605_14585 184.580  143.009 4297.70  452.051 274.143 398.047  756.893
## ORI_14607_14586 220.789  294.074 4623.54  632.272 287.947 504.807 1157.000
## ORI_14609_14587 228.983  446.684 4389.56  675.501 394.182 476.500  626.220
## ORI_14617_14591 115.605  263.062 4703.52  868.463 375.829 187.787  542.640
## ORI_14623_14594 217.632  182.885 4332.13  502.618 248.914 232.127  371.249
## ORI_14629_14597 212.132  713.913 4139.62  845.581 216.368 216.166  438.078
## ORI_14631_14598 155.914  452.910 3839.62  639.277 284.127 427.104  548.573
## ORI_14633_14599 297.442  187.822 5092.04  435.024 434.645 370.764  554.479
```

```
## ORI_14635_14600 273.989  196.361 5422.63  472.225 493.329 249.437  419.435
## ORI_14639_14602 219.357  351.970 4745.66  465.984 315.333 294.988  420.979
##                  [,4965]  [,4966] [,4967] [,4968]   [,4969]  [,4970]  [,4971]
## ORI_10219_10218  428.380 2841.330 348.147 469.036 1157.9400 1164.670  680.526
## ORI_10735_10730  933.226 1967.130 448.771 406.361  223.7060  598.974  819.380
## ORI_14605_14585  565.322 3607.430 409.407 542.487  162.0620  467.648  674.516
## ORI_14607_14586  547.083 1998.700 605.224 344.553  358.2650  537.216  849.942
## ORI_14609_14587  688.490 3432.070 424.073 580.035  452.7380  476.408  754.864
## ORI_14617_14591  530.367 2670.930 387.815 570.237 1205.3100 1069.130  856.483
## ORI_14623_14594  685.768 2177.600 307.213 354.601  475.5770  808.771  494.767
## ORI_14629_14597  591.134 1565.590 255.066 562.237  249.7890  261.204 1014.360
## ORI_14631_14598  785.521 2395.840 465.941 520.908  286.0390  335.066  810.808
## ORI_14633_14599  720.555 2396.790 433.257 477.028  413.8060  933.611  807.414
## ORI_14635_14600 1208.290 1603.620 367.715 643.463  483.6420  995.479  495.899
## ORI_14639_14602  988.619  858.145 538.793 698.902  232.8820  560.687  940.929
##                 [,4972] [,4973] [,4974]  [,4975]  [,4976] [,4977]  [,4978]
## ORI_10219_10218 691.781 273.847 246.454 1563.550  442.786 308.962  534.969
## ORI_10735_10730 512.728 413.975 278.082 1506.970 1145.050 189.726 1057.430
## ORI_14605_14585 494.426 229.494 272.384 1621.680  994.207 213.035  841.892
## ORI_14607_14586 613.747 366.153 270.732 1315.930  672.956 299.056  716.752
## ORI_14609_14587 530.633 357.470 360.220 1912.490  888.808 187.317 1316.360
## ORI_14617_14591 593.972 234.322 234.909 1959.860  678.430 183.754 1097.340
## ORI_14623_14594 366.940 261.461 235.253 1317.570  851.514 371.453 1021.610
## ORI_14629_14597 155.263 431.622 265.180 1407.280  706.336 324.720  523.025
## ORI_14631_14598 476.148 307.077 359.250 2182.580  733.097 227.822 1608.400
## ORI_14633_14599 302.743 384.076 179.437 1858.310  836.406 246.246 1457.160
## ORI_14635_14600 289.316 229.968 246.249 1842.160  842.525 281.124 1219.960
## ORI_14639_14602 183.086 462.941 234.363 1456.190  708.703 240.332  915.900
##                 [,4979]  [,4980]  [,4981]  [,4982]   [,4983]   [,4984] [,4985]
## ORI_10219_10218 565.039 546.5480 1307.390  98.2930  954.4680 1194.5500 323.758
## ORI_10735_10730 188.281 152.2860 1152.510 234.9850  681.3530 1356.9000 639.018
## ORI_14605_14585 388.199 181.5660 1152.280 145.0820  402.1020 1304.3600 561.960
## ORI_14607_14586 285.345 196.4110 2512.790 147.4730  259.9650  653.2590 445.440
## ORI_14609_14587 562.877 262.1760  731.416 284.6340  400.2110 1411.5900 636.500
## ORI_14617_14591 592.613 767.4790 1328.550 135.9720  781.9710 1569.9900 453.163
## ORI_14623_14594 383.676 237.8390 1091.460 137.9400  492.0420 1645.2200 392.793
## ORI_14629_14597 232.170 229.2330  664.004  85.9049  199.4430 1340.3000 667.934
## ORI_14631_14598 322.390 158.3400  773.614 145.5640  274.0080 1249.5400 774.621
## ORI_14633_14599 341.671 282.8710  866.311 217.9720  671.3490 2564.6600 570.500
## ORI_14635_14600 256.018 419.7780  716.413 198.7100  567.1280 1941.6500 554.981
## ORI_14639_14602 298.419 308.0520  622.858 135.4900  216.5030 1702.5500 491.134
##                  [,4986]  [,4987]  [,4988]  [,4989] [,4990]  [,4991]  [,4992]
## ORI_10219_10218 2215.200 183.3070 145.4410 152.0340 300.430  771.667 1253.930
## ORI_10735_10730  473.806 166.9510 196.7000 220.8200 508.086  942.220 1084.710
## ORI_14605_14585  326.957 157.8300 262.5660 262.5470 381.427  933.652  944.034
## ORI_14607_14586  938.538 495.6660 793.8140 730.7670 468.245  985.612  912.220
## ORI_14609_14587  598.277 229.8420 276.5970 265.6650 528.361  851.891 1140.440
## ORI_14617_14591 1796.320  30.8210  67.9553  62.9664 309.116  911.914 1507.130
## ORI_14623_14594  975.297  24.6827  85.7443 104.2980 246.219  763.824 1128.890
## ORI_14629_14597  699.854  91.8213 140.8520 125.3140 420.583  686.765 1029.870
## ORI_14631_14598  496.450  85.3905 230.2390 226.8430 490.293  934.678 1165.350
## ORI_14633_14599  640.051  33.0986  80.3163 179.0540 408.967  933.099 1335.660
## ORI_14635_14600  808.104  24.6827 105.7120 142.7120 364.915  668.247 1101.610
## ORI_14639_14602  427.025  24.6827  53.6981 117.5520 337.990  846.145 1008.100
```

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##                  [,4993] [,4994]  [,4995] [,4996]  [,4997]  [,4998] [,4999]
## ORI_10219_10218  934.456 1716.65  359.542 391.784 174.5060 1453.810 361.126
## ORI_10735_10730  575.032 1539.58  709.290 549.212 171.8430 1261.960 403.906
## ORI_14605_14585  436.163 2142.46  817.249 372.046 220.5380 2119.670 629.621
## ORI_14607_14586  449.309 1392.77  851.993 375.580 247.7680 2216.730 592.874
## ORI_14609_14587  472.213 2360.89  893.421 544.195 298.2200 1599.180 482.596
## ORI_14617_14591  757.293 1521.94 1142.850 504.298 253.9390 1842.730 637.313
## ORI_14623_14594  416.355 1770.68  875.285 368.102 203.6690 1353.560 586.999
## ORI_14629_14597  408.003 1904.88  701.529 319.034 200.7060 1458.480 699.131
## ORI_14631_14598  460.374 1890.90  749.638 433.324 251.0420 1336.880 591.391
## ORI_14633_14599  411.258 1591.34  920.590 501.794 229.7580 1994.720 549.859
## ORI_14635_14600  517.848 1952.38  952.554 424.381 251.1780 1321.940 592.150
## ORI_14639_14602  353.895 1999.33  608.860 369.942 336.6600 1547.470 890.586
##                 [,5000] [,5001] [,5002]   [,5003] [,5004] [,5005]  [,5006]
## ORI_10219_10218 512.713 1828.28 267.219  613.9030 567.547 2054.00  998.878
## ORI_10735_10730 456.612 2083.38 424.353  195.9360 393.339 1386.02  764.837
## ORI_14605_14585 541.927 2065.43 414.451  997.9160 233.059 1511.32  770.364
## ORI_14607_14586 505.402 1768.84 494.774  376.5860 524.092 1423.57  751.702
## ORI_14609_14587 621.258 1991.01 541.296  629.8290 499.382 1837.14  268.945
## ORI_14617_14591 623.257 2242.68 201.819  462.4550 760.869 1908.44 1099.670
## ORI_14623_14594 399.034 2256.99 313.877  688.9260 340.420 1259.37  667.311
## ORI_14629_14597 521.031 1696.81 505.031 1240.5500 354.527 1064.88  691.931
## ORI_14631_14598 518.957 1993.68 452.751  453.0920 400.626 1768.75  194.501
## ORI_14633_14599 502.502 1787.04 426.943  515.2150 286.344 1840.77  763.888
## ORI_14635_14600 441.869 2182.75 365.099  740.2830 346.877 1329.69  650.325
## ORI_14639_14602 301.034 1572.24 257.438  691.1270 236.793 1527.69  905.835
##                  [,5007] [,5008]  [,5009]  [,5010]  [,5011]   [,5012]  [,5013]
## ORI_10219_10218 407.9800 566.127 1752.050 2920.830 1316.850 2133.3300  968.522
## ORI_10735_10730 275.2740 607.119 1254.930 1506.410  322.640  755.3610  883.300
## ORI_14605_14585 411.7750 581.024 1553.190 3465.690  750.792 1069.8300  878.787
## ORI_14607_14586 262.5470 746.705 1798.210 2317.890  877.671 1010.3800  717.895
## ORI_14609_14587 654.5210 765.523 2180.740 2655.950  733.362 1001.9900  787.606
## ORI_14617_14591 300.6090 324.398  940.988 3865.390 1451.460 2627.2700  938.279
## ORI_14623_14594 190.0090 442.033  895.697 3200.810 1012.830 1699.6400  855.188
## ORI_14629_14597 291.3690 618.607  932.544 1283.360  659.291  517.2790  757.285
## ORI_14631_14598 357.2560 784.561 1982.020 2122.750  798.153 1440.5100  953.535
## ORI_14633_14599 545.5760 641.779  703.222 4282.540 1043.460  790.4470  833.700
## ORI_14635_14600 163.4230 445.102  825.380 3074.740 1110.910 1334.9300  824.522
## ORI_14639_14602 154.4140 582.815  602.964  997.268  598.006 1188.1200  833.771
##                 [,5014]  [,5015]  [,5016]  [,5017] [,5018]  [,5019]  [,5020]
## ORI_10219_10218 2039.06 1255.680 1767.120 1364.380 2838.45 1037.640  658.515
## ORI_10735_10730 1552.82 1001.680 1385.810  931.219 2261.18  598.428 1048.820
## ORI_14605_14585 1947.64  876.789 1495.420 1106.510 2078.51  786.091  747.866
## ORI_14607_14586 2128.41  793.922 1421.030 1150.480 2363.85  799.028  738.308
## ORI_14609_14587 2068.99  596.814 1583.240 1212.030 2554.45 1130.000  984.906
## ORI_14617_14591 1865.45  940.181 1168.040  921.583 2759.28 1340.410  539.861
## ORI_14623_14594 1752.66  749.983  935.391  822.275 2332.91  815.540  438.605
## ORI_14629_14597 1658.58  729.550  581.583  397.347 2366.96  937.666  513.753
## ORI_14631_14598 2299.05  881.122 1585.940 1053.640 2473.53 1063.270 1060.400
## ORI_14633_14599 1911.36  741.637 1309.080  674.093 2909.82  837.842  828.417
## ORI_14635_14600 1499.45  686.959 1039.170  652.328 2085.80  830.870  362.628
## ORI_14639_14602 1364.91  964.750  943.604  431.990 2161.13  739.535  955.450
##                 [,5021]  [,5022]  [,5023]  [,5024] [,5025]  [,5026] [,5027]
## ORI_10219_10218 433.125  848.624  482.083 1336.100 326.620 1687.850 1650.12
```

```
## ORI_10735_10730 717.585  583.651  620.252  801.126 404.419 1239.450 1877.51
## ORI_14605_14585 400.448  550.432  421.740 1221.320 414.576 1482.080 1948.62
## ORI_14607_14586 534.020  588.360  497.200 1372.890 384.505 1705.520 1727.32
## ORI_14609_14587 704.805  644.802  599.592 1350.890 478.293 1757.860 1401.43
## ORI_14617_14591 315.007  698.183  386.278 1378.480 385.217 1298.480 1627.80
## ORI_14623_14594 394.837  481.877  638.974 1286.950 314.775 1158.430 1501.68
## ORI_14629_14597 553.850  532.560  517.787 1387.500 364.268 1421.280 1695.71
## ORI_14631_14598 663.981  730.806  504.810 1687.870 516.140 1047.970 2297.47
## ORI_14633_14599 523.964  598.314  639.269 1493.650 290.610 1898.280 1849.93
## ORI_14635_14600 440.842  512.466  867.378 1599.020 336.615 1046.220 1495.56
## ORI_14639_14602 472.763  741.900  650.048 1472.050 207.918  939.727 1400.13
##                  [,5028]  [,5029]  [,5030]  [,5031] [,5032]  [,5033]  [,5034]
## ORI_10219_10218  763.932 2069.980 1179.990  975.389 520.957 1790.470  979.877
## ORI_10735_10730  831.580 2191.800 1171.420  880.209 623.196 1087.680  996.568
## ORI_14605_14585  923.006 2245.280 1123.890  901.877 409.856 1292.080 1029.370
## ORI_14607_14586  730.028 2133.780  951.060  746.842 438.759 1252.490 1129.960
## ORI_14609_14587 1110.510 2451.530 1088.410 1089.080 654.100 1036.310 1544.740
## ORI_14617_14591  741.856 2029.870 1076.300  916.964 537.163 1414.360  958.597
## ORI_14623_14594  727.475  934.884  831.414  569.746 364.322 1473.110  921.897
## ORI_14629_14597  781.892 1715.380 1303.900  760.111 359.615 1483.350 1165.140
## ORI_14631_14598 1337.500 2280.170 1776.000 1162.750 634.223 1041.680 1116.320
## ORI_14633_14599 1093.420 2285.170 1093.090  795.206 489.958  889.298 1194.740
## ORI_14635_14600  693.793  756.707 1137.070  665.914 403.388 1002.540  958.138
## ORI_14639_14602  595.872 1743.460  897.359  799.540 529.202  935.622  926.166
##                 [,5035] [,5036]  [,5037]  [,5038]  [,5039]  [,5040]  [,5041]
## ORI_10219_10218 2019.63 568.828 1147.070 1298.870  850.560 1794.560 1158.330
## ORI_10735_10730 2037.78 364.337 1475.100 1046.260  911.371 1820.810 1597.090
## ORI_14605_14585 2811.44 423.058 1199.410 1072.870  836.155 1582.270 1357.560
## ORI_14607_14586 2094.41 541.972 1325.700 1089.470  959.626 2201.480 1595.660
## ORI_14609_14587 2112.41 502.644 1278.880 1102.630  916.928 2562.800 1897.720
## ORI_14617_14591 2079.37 513.312 1254.810 1103.440  905.872 1901.970 1218.110
## ORI_14623_14594 2094.82 480.612 1371.340  869.287  680.976 1966.930 1310.590
## ORI_14629_14597 1298.95 444.019 1395.130 1425.770  816.334 1862.570 1324.030
## ORI_14631_14598 2236.80 657.546 1741.130 1614.000  840.725 1945.360 2003.130
## ORI_14633_14599 3024.96 440.712 1340.780 1386.610 1000.970 2296.640 1415.730
## ORI_14635_14600 2200.97 342.152 1484.800  907.895 1105.740 2085.180 1052.170
## ORI_14639_14602 1871.84 382.564 1102.610 1260.730 1031.360 1366.030 1313.610
##                 [,5042]  [,5043]  [,5044]  [,5045]  [,5046] [,5047] [,5048]
## ORI_10219_10218 603.977  921.443 1499.480  842.988 1081.670 338.908 2141.05
## ORI_10735_10730 729.315  897.585 1285.770  582.817  748.750 390.976 3405.83
## ORI_14605_14585 493.728  863.412 1354.830  977.066  989.180 351.421 3272.76
## ORI_14607_14586 354.224 1049.440 1298.480 1054.230 1389.950 352.484 2735.57
## ORI_14609_14587 767.580 1020.690 1396.780  976.845 1623.530 295.444 3459.77
## ORI_14617_14591 470.476  869.494 1908.330 1063.780 1437.750 191.385 2472.83
## ORI_14623_14594 348.781  713.402 1139.450  697.119 1082.600 336.422 2618.77
## ORI_14629_14597 479.754  991.387 1420.900  876.654  271.392 299.525 2968.68
## ORI_14631_14598 617.468 1194.540 1532.660 1041.270 1376.450 218.861 2976.77
## ORI_14633_14599 610.647  953.843 1535.210  863.362  433.906 288.724 3877.01
## ORI_14635_14600 520.864  782.083 1536.210  786.306  478.547 234.814 2867.76
## ORI_14639_14602 606.328  797.100 1531.250  555.150  257.889 248.331 2485.51
##                  [,5049]   [,5050]   [,5051]  [,5052]   [,5053]  [,5054]
## ORI_10219_10218 1557.230  145.7770 2376.3500 620.5620 2769.2700 268.6490
## ORI_10735_10730 1733.100  779.5110  411.4080  82.6662 1468.3900 128.3290
## ORI_14605_14585 1469.290  179.3420  102.1810  35.3013  165.1350 278.2680
```

```
## ORI_14607_14586 1349.780  337.7380  795.6940 178.1870 1106.3700 257.9400
## ORI_14609_14587 1365.410  511.2060  225.9730 103.7360  340.2040 223.1090
## ORI_14617_14591 1346.960  253.8810 2387.5700 452.8600 3027.1100 206.7080
## ORI_14623_14594 1360.610  217.4510 1038.0100 117.1610 1418.2200 300.7960
## ORI_14629_14597 1089.010  387.1860  409.9130  45.5518  389.7200 241.8450
## ORI_14631_14598 1169.170  439.3830  211.5350  67.1834  330.2560 256.6940
## ORI_14633_14599 1192.500  229.1920  322.5030 105.3650  605.8080 205.0240
## ORI_14635_14600 1431.320  161.0580 1303.2700 336.9590 1043.0100 204.3680
## ORI_14639_14602 1046.460  373.4340  609.3730  80.8619  841.4300  90.9389
##                 [,5055]  [,5056]  [,5057]  [,5058]  [,5059] [,5060]  [,5061]
## ORI_10219_10218 449.493  43.5632 254.4470 100.0410  793.817 439.957 1069.390
## ORI_10735_10730 622.845 356.3590 205.2630 335.4260  653.335 641.954 1426.000
## ORI_14605_14585 583.304 165.5200 448.9330 191.8460 1131.270 578.601  834.035
## ORI_14607_14586 314.893  47.4010 269.2090 113.2920  943.953 502.206  756.111
## ORI_14609_14587 657.609 104.6410 263.9120 366.6390 1011.810 932.671  959.821
## ORI_14617_14591 292.726  45.6373 199.3310 186.3350  795.180 525.711 1118.730
## ORI_14623_14594 510.234 127.4930 240.8970 181.4160  714.664 418.736 1274.600
## ORI_14629_14597 557.715  91.4355 202.4460 133.4090  687.981 824.952  426.555
## ORI_14631_14598 433.996 160.2480 180.4470 279.2590  827.922 520.882  822.219
## ORI_14633_14599 411.079 114.6830 158.2320 227.8170  932.166 725.259  581.101
## ORI_14635_14600 475.312 151.1450 248.9710 247.1420  764.542 419.138  684.059
## ORI_14639_14602 395.771 397.8500 238.1100 200.6830  642.770 347.035  516.400
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## ORI_10219_10218 543.5630 1328.9100 383.591  422.361 391.0720 272.1520  231.4160
## ORI_10735_10730  86.1768  502.0000 274.421 4351.260 156.8770 153.7540  508.2290
## ORI_14605_14585  69.0920  259.3610 404.402 3200.950 330.0160 278.2580  344.7680
## ORI_14607_14586 112.9220  530.0070 291.080  909.680 121.5730 317.3960  165.7290
## ORI_14609_14587 100.0340  727.5500 438.841 2057.110 150.6140 168.1930  415.2330
## ORI_14617_14591 421.0890 1997.1000 316.253 2474.070  94.0520 307.1410  361.6830
## ORI_14623_14594 185.0590  608.1750 290.216  615.748 127.7620 433.3160  314.6050
## ORI_14629_14597  92.4066  279.5280 341.882 3818.010 144.6250  76.9420  304.1870
## ORI_14631_14598  85.8246  201.2670 381.747 2519.640 133.6610  88.6241  357.7280
## ORI_14633_14599 101.8500  695.8200 313.396 1344.590 146.8920 320.9270  487.1190
## ORI_14635_14600 150.5480  538.9220 316.630 1124.180 160.0830 475.5130  320.2520
## ORI_14639_14602  86.2568  397.8920 303.152 1786.060 131.5050 201.0260  527.6200
##                 [,5069]  [,5070]   [,5071]  [,5072] [,5073]  [,5074] [,5075]
## ORI_10219_10218 214.502 2042.980 1177.6100 179.1970 207.361 299.8540 661.516
## ORI_10735_10730 345.798 1096.000   34.4863  65.5602 281.193 111.3820 242.064
## ORI_14605_14585 244.328 1688.840   98.9364  57.4460 353.208 397.1190 338.028
## ORI_14607_14586 405.271 1429.210  329.0230  89.9910 170.616 149.7470 576.706
## ORI_14609_14587 311.752 1590.370  315.2440  42.6839 396.882 358.3380 583.845
## ORI_14617_14591 182.904 2465.860 1225.0600 215.1270 473.475 204.1210 432.331
## ORI_14623_14594 169.784 2181.630  402.6780 149.7320 374.363 228.6270 664.415
## ORI_14629_14597 295.771 1366.150   89.1724  53.2567 269.606 174.3000 503.953
## ORI_14631_14598 355.739 1985.780   98.5110  66.1135 471.337 202.3520 943.142
## ORI_14633_14599 253.621 2124.350  186.0090  78.2565 415.706 200.5970 208.535
## ORI_14635_14600 186.173 2064.510  406.1380  90.9756 524.401 193.5590 342.421
## ORI_14639_14602 184.712 1399.080  144.7090  49.9972 201.141 168.6960 284.371
##                  [,5076]  [,5077]  [,5078] [,5079]  [,5080]  [,5081] [,5082]
## ORI_10219_10218 1467.240  698.393  558.098 253.369  349.936  67.3690 201.623
## ORI_10735_10730 1054.690  800.199 1481.520 322.108 1062.200 219.5210 327.027
## ORI_14605_14585 1387.000  718.446 1580.530 268.074  389.596  96.3493 273.167
## ORI_14607_14586 1322.450  971.358  750.813 196.724  879.450  57.4588 372.808
## ORI_14609_14587 1488.350 1179.860 1114.780 276.298  890.058 117.1650 230.902
```

```
## ORI_14617_14591 1208.420  543.467 1753.180 222.117  422.465  97.3138 175.829
## ORI_14623_14594  852.724  527.875 2046.400 268.176  466.093 152.6640 199.261
## ORI_14629_14597 1491.730  740.259 1459.450 393.978  340.964  43.8349 275.192
## ORI_14631_14598 1172.650 1226.820 1543.790 335.034  636.978 136.6880 226.689
## ORI_14633_14599 1087.900  867.336 1012.330 296.437  489.051  91.5439 222.615
## ORI_14635_14600  996.220  658.951 1649.540 254.106  615.129 104.8100 181.962
## ORI_14639_14602  655.649  714.427  924.109 353.829  737.062  38.8721  94.160
##                  [,5083] [,5084] [,5085] [,5086] [,5087]  [,5088] [,5089]
## ORI_10219_10218 1583.040 273.679 532.045 290.359 312.098  36.0127 4323.49
## ORI_10735_10730 2015.270 447.884 257.975 288.059 315.362 153.1370 3744.45
## ORI_14605_14585 2451.200 479.387 432.794 345.673 320.574  90.9963 4028.46
## ORI_14607_14586 3814.070 377.958 294.379 254.629 239.003  63.4224 3635.00
## ORI_14609_14587 3093.090 558.916 476.905 376.889 330.147  62.0069 3361.46
## ORI_14617_14591 1578.240 274.737 496.456 311.396 397.152  25.0097 4067.78
## ORI_14623_14594 1352.550 313.136 289.923 218.635 341.464  31.1673 4198.23
## ORI_14629_14597 1211.820 335.683 456.601 315.414 400.438 123.2990 4219.58
## ORI_14631_14598 1178.040 480.374 370.009 383.321 263.997  83.9756 3630.24
## ORI_14633_14599 1717.840 244.372 411.052 275.455 313.958  28.9435 4710.91
## ORI_14635_14600 1117.430 293.410 497.307 282.917 316.468  42.8735 3726.94
## ORI_14639_14602  618.796 341.183 296.972 343.926 380.167 865.0580 3655.42
##                 [,5090]   [,5091]  [,5092]  [,5093]  [,5094] [,5095]  [,5096]
## ORI_10219_10218 335.270  181.3500 235.8960 1250.300 229.7990 252.083  24.6827
## ORI_10735_10730 837.749  148.6760 334.6670 2032.490 223.8520 452.551 401.0660
## ORI_14605_14585 505.532  252.8550 316.9440 1314.670 314.9790 360.534 754.4240
## ORI_14607_14586 592.535  105.7190 283.3350 1693.520 300.4370 333.152 530.7160
## ORI_14609_14587 666.757  126.5080 338.8260 1518.870 299.7810 342.465 199.8290
## ORI_14617_14591 605.712  112.8070 351.7000 1375.650 167.8920 353.865 120.5410
## ORI_14623_14594 520.402  187.2550 283.4600 1056.950 231.1470 293.683 220.3210
## ORI_14629_14597 574.540  182.1510 450.4550  874.544  57.2404 397.957 667.9480
## ORI_14631_14598 677.160  129.0830 269.1960 1671.440 173.4870 296.649 372.8340
## ORI_14633_14599 549.499  132.6210 266.7240 1818.650 400.8510 524.381 134.4950
## ORI_14635_14600 593.058  171.6380 375.1260 1174.630 304.8300 535.410 163.3210
## ORI_14639_14602 422.037  139.7290 353.8840 1345.160 162.9900 410.154 198.9790
##                   [,5097] [,5098] [,5099]  [,5100]  [,5101]  [,5102] [,5103]
## ORI_10219_10218   86.6050 523.664 486.397  885.483  580.827 362.8810 516.691
## ORI_10735_10730  466.6830 412.697 506.581 1370.260  859.965  91.3667 398.071
## ORI_14605_14585  209.0940 422.665 428.436 1128.870  885.961 432.7780 607.628
## ORI_14607_14586  907.4250 477.468 387.778 1153.540 1099.410 222.2320 411.091
## ORI_14609_14587  222.9050 574.384 578.656 1358.010  879.052 207.3390 507.822
## ORI_14617_14591   34.0088 511.016 490.852  839.480  514.383 144.5780 741.318
## ORI_14623_14594   61.0916 305.945 255.996  753.025  528.310 165.2250 438.132
## ORI_14629_14597  106.0460 504.325 179.657  613.314  713.407 155.8180 349.781
## ORI_14631_14598  349.5150 570.581 480.682 1212.020 1249.430 131.6390 563.218
## ORI_14633_14599  135.8070 664.291 404.626  948.148  914.383  90.1874 595.590
## ORI_14635_14600   81.5213 541.452 416.594  789.704  564.079 230.7270 547.500
## ORI_14639_14602  265.7440 380.299 302.755 1717.970  741.029  95.9767 488.297
##                  [,5104]  [,5105]  [,5106] [,5107] [,5108]  [,5109] [,5110]
## ORI_10219_10218  469.694  673.520 1912.930 374.042 258.423  24.6827 187.032
## ORI_10735_10730  586.692 1038.840 1643.310 390.722 393.026 305.0360 397.702
## ORI_14605_14585  589.159  539.135 1167.830 511.627 410.288  57.3488 316.837
## ORI_14607_14586  685.187  515.750 1618.350 391.361 433.850 352.5030 245.675
## ORI_14609_14587  696.434  545.883 1264.410 367.581 426.487  92.9231 291.917
## ORI_14617_14591  658.202  633.806 2183.470 282.787 383.314  24.6827 165.498
## ORI_14623_14594  460.129  365.272 1684.670 447.503 292.633  24.6827 271.851
```

```
## ORI_14629_14597  634.660  508.796 1009.720 488.911 271.985  24.6827 362.539
## ORI_14631_14598 1198.460  655.516 1262.600 428.900 480.802 125.8600 371.094
## ORI_14633_14599  647.185  539.930 1372.270 480.610 338.616  24.6827 364.686
## ORI_14635_14600  542.120  286.332 1421.860 480.278 324.614  24.6827 436.921
## ORI_14639_14602  706.208  460.828 1250.850 367.765 276.998  24.6827 231.123
##                  [,5111]   [,5112]  [,5113]   [,5114]   [,5115]  [,5116]
## ORI_10219_10218  802.594 1048.4100 199.1210  479.7020  455.9300 404.9830
## ORI_10735_10730  500.602  475.1950 488.3960  515.4920 1726.1400 143.2340
## ORI_14605_14585  837.677  617.3910 247.7830  549.1520  593.3920 147.1070
## ORI_14607_14586  907.371  267.4400  84.5624  231.3620  327.1570 145.6900
## ORI_14609_14587 1229.870  397.6010 389.9810  273.5550  611.8380 177.9240
## ORI_14617_14591  857.727  400.7650 283.0790  504.7720  892.4970 266.0830
## ORI_14623_14594 1108.860  515.0050 164.4700  360.7730  618.7500 175.9510
## ORI_14629_14597 1011.350  588.6330 372.6500  863.3250  800.8350 215.7220
## ORI_14631_14598  846.559  869.1990 233.9100  415.4280 1068.4800 217.4390
## ORI_14633_14599  690.817  881.8540 343.2320  308.8610  633.3010 148.3080
## ORI_14635_14600  666.742  492.3610 293.2170  336.8040  560.0850 162.1370
## ORI_14639_14602  512.577 1571.3000 305.7690  595.5410 1126.4300  98.0062
##                  [,5117]  [,5118] [,5119]  [,5120] [,5121]  [,5122]  [,5123]
## ORI_10219_10218  337.671  712.411 1191.78 190.9700 306.499 255.8920 127.8050
## ORI_10735_10730  680.444 1411.480 2384.83 201.8620 885.161 243.1090 332.3800
## ORI_14605_14585 1014.490  966.332 1603.86 177.3500 648.851 273.2690 261.6880
## ORI_14607_14586  316.375  999.368 2045.72 222.2450 592.899 210.7230 449.1320
## ORI_14609_14587 1566.120  686.144 2019.49 271.1290 517.981 631.6590 394.8490
## ORI_14617_14591  361.884 1064.850 1141.03 161.5220 480.889 284.0970 108.8440
## ORI_14623_14594  923.436 1070.210 1215.77  24.6827 482.987 234.2520 112.6300
## ORI_14629_14597  469.912 1497.130 1231.55 307.3410 681.289 316.0800 365.6880
## ORI_14631_14598  459.028 1533.310 2238.63 321.9180 753.312 289.4620 326.4460
## ORI_14633_14599 1663.220 1411.740 1895.18 150.0070 848.192 218.3160 271.7480
## ORI_14635_14600 2302.160 1389.830 2023.62  38.2694 748.810 193.5720 163.3630
## ORI_14639_14602  219.046 2027.290 2709.19 141.5510 781.695  83.9749 125.6950
##                   [,5124]  [,5125]  [,5126]  [,5127]   [,5128] [,5129] [,5130]
## ORI_10219_10218  917.6030  996.089 117.1360  863.653   48.7984 291.027 328.133
## ORI_10735_10730   86.9138  527.219 227.6070  800.839  961.2850 359.532 503.018
## ORI_14605_14585  135.5230  547.770 356.8280  684.507  263.0990 249.256 359.967
## ORI_14607_14586  371.8130  513.619  42.3903  726.644 2218.9200 292.984 313.932
## ORI_14609_14587  175.0000  807.095  62.6483  557.660  764.2780 335.656 518.553
## ORI_14617_14591 1023.0100  813.999 162.1590  418.842   45.0731 244.058 217.013
## ORI_14623_14594  436.3690  566.943 182.6960  958.272   43.7214 271.548 335.205
## ORI_14629_14597  158.0770  751.155  55.5251  644.187  106.3220 202.370 230.293
## ORI_14631_14598  120.5530  682.866  44.4647  614.678 1255.0200 270.488 494.997
## ORI_14633_14599  395.9500  744.380  84.4572  807.402   66.5816 352.527 453.977
## ORI_14635_14600  613.2070  620.485 218.3840  611.313  165.6010 264.329 382.276
## ORI_14639_14602  236.5970  622.897 273.8950  871.213   83.1729 261.034 442.478
##                 [,5131]  [,5132] [,5133]  [,5134] [,5135] [,5136] [,5137]
## ORI_10219_10218 353.516  180.483 275.823 114.0950 383.648 262.138 202.311
## ORI_10735_10730 338.135  359.318 301.351 192.5680 332.121 592.603 430.341
## ORI_14605_14585 318.068  353.195 375.680 134.5630 492.771 396.366 352.301
## ORI_14607_14586 321.450  384.785 250.621 133.2040 466.615 453.130 330.930
## ORI_14609_14587 278.026  365.201 403.270 120.4110 488.598 521.583 535.848
## ORI_14617_14591 207.543  319.390 217.404 157.7710 507.946 505.949 298.374
## ORI_14623_14594 310.162  741.253 277.133 165.4880 480.292 304.944 487.622
## ORI_14629_14597 286.989  470.340 378.816  82.5263 499.691 392.965 313.265
## ORI_14631_14598 316.478  414.614 733.856 157.8640 493.521 399.234 529.786
```

```
## ORI_14633_14599 378.060  313.740 203.713 124.5220 569.074 380.297 426.960
## ORI_14635_14600 316.914 1054.280 311.621 144.1440 621.695 548.640 629.823
## ORI_14639_14602 243.419  286.117 205.681  99.8176 401.268 544.565 319.904
##                  [,5138]  [,5139] [,5140]  [,5141] [,5142]  [,5143]  [,5144]
## ORI_10219_10218 1457.780  640.710 1739.60 200.2240 416.905  475.923  939.497
## ORI_10735_10730 1603.380 1115.990 2655.61 207.1120 479.974 1341.590 2168.430
## ORI_14605_14585 1503.140 1114.490 2459.83 350.3600 469.298  946.160 1459.130
## ORI_14607_14586 1383.830 1462.340 2209.68 214.1050 450.443  485.271 2214.450
## ORI_14609_14587 1415.890 1215.790 2219.78 188.5320 481.051  931.943 2078.600
## ORI_14617_14591 1608.130  605.546 2254.31 281.8300 380.670 1426.350 2501.930
## ORI_14623_14594 1227.900  663.239 2378.23 334.4900 526.969 1727.950 2139.620
## ORI_14629_14597 1195.530  996.946 2196.87 487.5170 394.714  767.602 2303.660
## ORI_14631_14598 1838.400 1540.880 2085.37 275.3650 508.901  836.622 1875.300
## ORI_14633_14599 1621.300 1166.320 2779.26 273.9580 415.343 1277.010 2053.820
## ORI_14635_14600 1604.320 1168.780 2948.63 311.4720 633.747 1633.140 1874.360
## ORI_14639_14602 1244.110 1106.500 2855.66 327.3820 434.511 1640.360 1567.790
##                  [,5145] [,5146] [,5147]   [,5148]  [,5149]  [,5150] [,5151]
## ORI_10219_10218  342.626 192.094 260.604  506.8830  86.7155 272.8380 137.135
## ORI_10735_10730 1333.150 317.785 213.752 1335.9300 340.7440 160.9710 399.330
## ORI_14605_14585  536.442 295.143 232.222  826.9230  65.1930 367.9580 216.262
## ORI_14607_14586 1004.640 280.451 740.617  503.1110 118.4150 195.7000 340.965
## ORI_14609_14587  581.661 177.895 162.307  935.9730 141.5470 223.0480 388.109
## ORI_14617_14591  749.359 226.326 187.253 1199.9700  78.3395 278.3260 142.247
## ORI_14623_14594  660.593 305.283 313.478 1107.4200  48.5754 456.3280 210.001
## ORI_14629_14597  715.386 288.707 238.343 1160.6700 163.7050 359.5380 344.237
## ORI_14631_14598  784.741 353.106 248.653  503.6570 205.0690 304.4060 400.943
## ORI_14633_14599 1400.910 246.824 220.057 1074.8700 115.1610 319.1420 187.783
## ORI_14635_14600  903.219 223.967 351.511 1098.4600  84.6769 315.8710 215.970
## ORI_14639_14602 1166.430 283.954 296.174 1499.2600 143.1860 349.9740 200.559
##                  [,5152]   [,5153]  [,5154] [,5155]  [,5156]  [,5157]  [,5158]
## ORI_10219_10218 1006.710 1584.4800 407.4380 574.632  412.977 1107.640  523.476
## ORI_10735_10730  764.732  286.9010 636.3460 481.491  384.131 1637.020  479.413
## ORI_14605_14585  900.155  634.0870 401.5140 832.734  503.213 2053.670  498.610
## ORI_14607_14586  785.057  884.0620 184.0550 651.632  464.581 3384.400  514.119
## ORI_14609_14587 1051.880  515.1070 693.1800 596.151  414.853 2987.860  906.919
## ORI_14617_14591 1230.930 2197.8500 373.7140 378.827  373.608  655.912  437.455
## ORI_14623_14594  919.225 1358.5800 375.4240 349.122  358.190  601.751  361.815
## ORI_14629_14597  918.357  547.4190 838.3630 497.041  491.018  843.951  521.352
## ORI_14631_14598  817.022  646.8700 279.6650 587.476  352.943 1971.840  741.675
## ORI_14633_14599  858.180  637.8860 392.4000 371.596  624.256 1761.410  705.468
## ORI_14635_14600 1048.330  850.8000 298.1320 428.033  466.938  815.506  709.239
## ORI_14639_14602  687.149  696.8840 560.6480 310.265  562.658  567.936  190.708
##                  [,5159]  [,5160]  [,5161]  [,5162] [,5163] [,5164]  [,5165]
## ORI_10219_10218 1015.380  797.153 2559.600  89.4637 390.345 2408.15  92.6789
## ORI_10735_10730 1323.810  639.865 2051.590 198.5170 548.336 3263.42 124.2220
## ORI_14605_14585  607.168  531.529 2504.210 211.3870 528.023 3467.01 157.5350
## ORI_14607_14586  638.682  575.164 2553.840 456.4100 606.837 3147.45  58.6465
## ORI_14609_14587  705.773  602.587 2841.210 333.6630 462.623 3338.23  66.9844
## ORI_14617_14591  960.959  827.452 3347.490  42.1809 422.257 3013.55 112.8650
## ORI_14623_14594  800.261  589.040 2765.000  40.1046 316.902 3243.04 161.9480
## ORI_14629_14597  647.132  572.046 2610.010  52.9111 727.677 2754.06  77.8678
## ORI_14631_14598  620.238  821.615 2327.460 173.5140 556.306 3281.44 318.1380
## ORI_14633_14599  873.409  856.798 2234.720 148.5880 397.765 3881.88 422.5200
## ORI_14635_14600  661.326  559.450 2024.660 100.8480 257.465 3711.05 181.5440
```

```
## ORI_14639_14602 1012.620  334.896 2251.430  49.0894 544.666 3757.97 456.4590
##                 [,5166]   [,5167]   [,5168]   [,5169]   [,5170]  [,5171]
## ORI_10219_10218 351.437  984.1230  303.0060 1365.3100  932.6360 334.3380
## ORI_10735_10730 414.755  168.3560 1535.7700  670.7930  253.6180 194.0010
## ORI_14605_14585 446.654  113.1540  287.3660  453.5340  265.4520  24.6827
## ORI_14607_14586 281.720  492.5730  369.1890  505.1520  263.8060 146.6580
## ORI_14609_14587 466.520  253.2690  255.5460  558.2950  124.2770  58.9521
## ORI_14617_14591 310.825 1124.8400  224.3820 1184.4500  375.0540 219.6010
## ORI_14623_14594 361.944  749.2800  398.8060 1464.8700  308.3170 157.7190
## ORI_14629_14597 401.939  277.7560   67.1706  591.6880  211.4870  24.6827
## ORI_14631_14598 305.219  395.4670  313.3360  411.2540  116.1060  37.3667
## ORI_14633_14599 363.730  303.9400  198.5240  606.7610  123.1600  32.5631
## ORI_14635_14600 519.478  385.0120  112.8660  375.4100  228.9480  94.7943
## ORI_14639_14602 368.938  299.3350 3051.5600  549.9150  362.4860  69.7935
##                 [,5172] [,5173]  [,5174] [,5175]  [,5176]  [,5177] [,5178]
## ORI_10219_10218 445.136 422.626 496.7580 203.720 177.1080  904.408 231.099
## ORI_10735_10730 257.097 357.055 148.4870 191.360 165.7070 1094.060 306.682
## ORI_14605_14585 370.072 428.295 151.6400 356.996 134.6560  753.188 209.180
## ORI_14607_14586 416.086 305.666 496.5470 475.369 236.4230 1173.020 235.931
## ORI_14609_14587 385.377 394.897 588.8800 241.002 499.2390 1354.880 406.214
## ORI_14617_14591 241.629 302.972 411.2130 254.565 303.7040  917.565 372.206
## ORI_14623_14594 196.259 348.986 433.4000 243.834 211.3450 1139.440 169.209
## ORI_14629_14597 245.310 410.991 305.9140 312.691 183.1780  231.038 273.492
## ORI_14631_14598 563.973 520.473 363.3370 377.894 567.5050 1012.960 326.136
## ORI_14633_14599 319.656 313.132 294.7110 274.683 111.7900 1049.610 249.053
## ORI_14635_14600 237.653 307.953 246.4940 239.275 182.2290  939.888 300.741
## ORI_14639_14602 240.263 288.314 104.4150 179.454  79.3085  507.408 274.668
##                  [,5179]  [,5180]  [,5181]  [,5182] [,5183]  [,5184] [,5185]
## ORI_10219_10218  693.021 215.2950 607.0310 384.7800 407.273 106.1330 175.321
## ORI_10735_10730  960.600  61.0996 140.7430 144.8840 356.124 259.6540 354.349
## ORI_14605_14585  950.265 109.8770 271.0090 136.9500 434.503  93.6267 301.496
## ORI_14607_14586 1177.440 107.1280 772.8710 540.8040 377.153 139.2180 426.345
## ORI_14609_14587 1111.260 221.4100 515.5390 398.4340 270.827 188.5380 309.859
## ORI_14617_14591 1111.240 269.2460 234.7800 124.5880 271.824  96.3474 262.738
## ORI_14623_14594  864.549 103.4570 151.5310  91.7877 459.865  96.5361 228.660
## ORI_14629_14597  793.323  24.6827 102.7460  69.9393 301.701 119.3260 334.044
## ORI_14631_14598  976.400 113.5500 154.4790 127.7820 344.524 192.4000 356.032
## ORI_14633_14599 1119.620 101.5480 139.0980 115.4840 508.618 246.4920 388.543
## ORI_14635_14600 1109.080  77.6236 173.2360 160.7790 353.709 302.8650 336.785
## ORI_14639_14602  349.744  31.7201 185.0720 123.1700 366.215  70.4807 351.188
##                  [,5186]  [,5187] [,5188] [,5189]   [,5190] [,5191] [,5192]
## ORI_10219_10218 1229.250  886.310 479.820 248.238 4331.9500 366.136 707.831
## ORI_10735_10730 2176.520 1042.970 291.682 332.278  179.0810 602.731 121.979
## ORI_14605_14585  887.261  981.386 275.896 277.487  259.3380 378.584 190.440
## ORI_14607_14586 1305.040  926.314 273.624 257.533 2020.0200 589.294 363.866
## ORI_14609_14587 2157.400  911.528 304.051 330.526  934.8110 555.236 179.023
## ORI_14617_14591 1861.530  921.328 348.102 258.575 4041.3600 406.722 374.851
## ORI_14623_14594 1030.760  773.798 389.837 237.056 2646.8100 255.381 591.259
## ORI_14629_14597 2413.990  778.289 340.555 279.049  287.6000 598.864 207.038
## ORI_14631_14598 2722.620  804.523 315.811 274.989  652.5690 567.456 191.489
## ORI_14633_14599  957.047  945.435 314.872 283.814 1462.3500 497.937 273.373
## ORI_14635_14600 1115.410  768.473 380.672 246.855 2141.1000 387.471 233.329
## ORI_14639_14602 1109.180  518.591 291.428 291.798  944.8910 441.946 247.864
##                 [,5193]  [,5194]  [,5195]  [,5196]   [,5197]   [,5198]  [,5199]
```

```
## ORI_10219_10218 439.156 1087.040  40.4172 326.5020  686.8520  272.7180  299.254
## ORI_10735_10730 314.382  657.224 517.7270 141.2710  275.2480  136.1230  667.149
## ORI_14605_14585 449.848  256.245  65.2448  98.2168  315.9340   88.3561  336.479
## ORI_14607_14586 306.369  879.962 279.2710 108.0560  183.6760  153.2450  448.577
## ORI_14609_14587 253.185  975.494 312.0180  60.6565  270.0400  141.4410  481.783
## ORI_14617_14591 304.656  928.723  41.5948 371.8840  698.7430  415.9560  434.142
## ORI_14623_14594 569.368  806.548  41.6813 239.1820  517.8610  231.9250  463.212
## ORI_14629_14597 523.181  668.501 101.3700  24.6827  189.0340   57.8330  189.191
## ORI_14631_14598 444.751  643.214 228.7680 129.9940  377.2410   75.2025  540.717
## ORI_14633_14599 492.481 1004.980 131.2330 208.2550  331.9310  149.2380  439.999
## ORI_14635_14600 529.905  664.457  55.2078 282.2840  366.1330  152.3000  649.216
## ORI_14639_14602 609.089 1709.670  81.8293  46.2938  352.0840   94.8643  479.529
##                 [,5200]  [,5201]  [,5202] [,5203]  [,5204] [,5205] [,5206]
## ORI_10219_10218 452.480  516.673 109.2050 1250.12 2208.670 288.596 271.607
## ORI_10735_10730 473.120  660.999 151.6070 3055.06  635.706 184.250 508.499
## ORI_14605_14585 475.587  884.853 158.3410 2870.66  492.806 244.475 300.893
## ORI_14607_14586 495.622  549.451  77.1916 3274.90 1163.300 310.643 631.444
## ORI_14609_14587 590.949 1314.620 180.8930 2344.12  777.234 263.486 654.092
## ORI_14617_14591 563.010  689.811  79.8464 2212.91 2547.980 264.832 378.892
## ORI_14623_14594 451.134  369.989 204.7800 2748.99 1245.210 169.672 291.110
## ORI_14629_14597 334.507  601.609  95.9977 2262.81  714.848 192.565 421.013
## ORI_14631_14598 481.230  729.122 103.4960 2731.73  822.124 169.622 516.984
## ORI_14633_14599 507.400 1228.700 333.7240 4143.22  922.256 257.897 509.648
## ORI_14635_14600 477.956  489.157 333.8440 3629.57 1065.900 177.768 263.735
## ORI_14639_14602 494.252  151.222  95.9352 2066.92  510.776 107.818 287.270
##                 [,5207]  [,5208]   [,5209]  [,5210] [,5211]  [,5212] [,5213]
## ORI_10219_10218 464.926 182.9770  228.0800 267.2430 643.152 2872.960 500.376
## ORI_10735_10730 357.367 150.5850  772.9020 282.1910 583.737 2588.060 370.124
## ORI_14605_14585 404.842 158.3490  243.3520 359.2810 539.278 3561.300 447.172
## ORI_14607_14586 445.986 196.6940  421.7410 583.1320 665.444 1851.570 391.844
## ORI_14609_14587 311.730 243.0820  462.7110 344.5220 528.394 3064.100 277.771
## ORI_14617_14591 257.211 160.2170  382.4190 248.7690 533.323 3565.840 545.233
## ORI_14623_14594 481.104 124.5680  114.0080 187.5850 473.967 3364.760 565.813
## ORI_14629_14597 468.245 146.3420  390.6210 307.8170 415.180  750.842 428.096
## ORI_14631_14598 389.722 168.6200  764.0410 405.8510 368.554 4172.210 343.412
## ORI_14633_14599 417.651 187.2310  535.7280 176.2850 496.982 3433.770 396.306
## ORI_14635_14600 359.686 197.4310   41.7915 224.0390 390.604 2628.000 454.124
## ORI_14639_14602 467.742 109.1760  265.2610 228.3540 384.231  770.816 569.509
##                  [,5214]  [,5215] [,5216]  [,5217]  [,5218] [,5219] [,5220]
## ORI_10219_10218 146.6520  389.591 134.182 241.8250  555.937 186.359 2176.34
## ORI_10735_10730  80.6925  134.825 313.954 288.9290  802.757 237.601 1516.28
## ORI_14605_14585 130.5910  510.247 295.350 278.7010  567.420 266.915 2178.83
## ORI_14607_14586  61.0526  343.162 222.010  92.0311  919.491 436.510 1825.62
## ORI_14609_14587  93.9104  283.076 264.792 159.0440  710.839 412.482 2498.13
## ORI_14617_14591  63.9075  596.213 149.515 156.6940  424.564 184.218 2068.50
## ORI_14623_14594 131.9270  394.783 160.216 211.0790  361.226 139.608 2010.30
## ORI_14629_14597 128.8250  346.027 211.969 199.9240  414.380 247.269 1959.53
## ORI_14631_14598  90.4305  497.402 247.706 361.2120  742.890 261.330 2123.81
## ORI_14633_14599 100.8350  324.486 414.010 249.3590  350.776 168.613 2161.07
## ORI_14635_14600 119.3130  286.738 285.881 281.8340  380.780 103.767 1553.55
## ORI_14639_14602 172.2620  200.395 224.912 149.8660  344.853 259.340 1569.79
##                  [,5221]  [,5222]   [,5223]  [,5224] [,5225]   [,5226] [,5227]
## ORI_10219_10218 1265.310  44.7691  878.0400 232.1660 412.349   96.4752 351.754
## ORI_10735_10730 1008.680 288.1730  572.5930 264.5080 625.158  563.5130 490.767
```

```
## ORI_14605_14585 1014.520 130.6490  387.4330 320.7300 577.422  115.3740 443.885
## ORI_14607_14586  993.764 115.3070  315.3650 257.6320 558.990  312.3280 525.053
## ORI_14609_14587  775.508 143.0650  178.4310 259.6540 441.007  239.1980 567.740
## ORI_14617_14591 1368.340  36.3625 1472.6300 322.8990 506.595  165.5950 453.083
## ORI_14623_14594  947.839  71.9801  590.2440 146.4450 515.039  113.6870 379.532
## ORI_14629_14597  908.345 117.2660  277.1170 270.3020 275.670  239.9070 639.436
## ORI_14631_14598  948.579 180.8730  702.8120 245.9840 442.723  103.8570 478.202
## ORI_14633_14599 1048.090  95.0005  763.8000 230.8560 655.499  592.9780 292.785
## ORI_14635_14600  840.900 122.1110  645.2430 147.1200 524.685  372.5640 304.584
## ORI_14639_14602  499.152 205.5970  596.5830 180.8260 490.338  271.0540 300.359
##                  [,5228]  [,5229]  [,5230] [,5231] [,5232] [,5233]  [,5234]
## ORI_10219_10218 178.6780  362.998  235.748 356.371 297.807 155.959  213.777
## ORI_10735_10730 175.2890  495.445  609.411 497.735 524.919 496.512  647.715
## ORI_14605_14585 227.1360  492.028  399.007 479.648 392.355 424.648  377.522
## ORI_14607_14586 192.6820  434.969  448.723 346.960 344.905 344.703  344.224
## ORI_14609_14587 264.7150  389.764  592.151 529.150 649.997 447.505  583.777
## ORI_14617_14591 212.8330  450.171  351.299 417.888 396.410 370.433  275.079
## ORI_14623_14594 184.9050  614.320  408.261 351.044 316.247 351.938  400.754
## ORI_14629_14597 286.5530  579.674  712.612 611.003 203.175 527.831  460.742
## ORI_14631_14598 174.3620  336.183  457.062 545.321 566.428 421.455  464.802
## ORI_14633_14599 230.7230  987.696  612.901 542.599 411.155 442.963  395.708
## ORI_14635_14600 226.0010  641.842  529.573 495.269 532.179 485.289  463.652
## ORI_14639_14602 149.6080  483.281  621.342 435.743 516.474 583.242  692.066
##                  [,5235] [,5236] [,5237] [,5238] [,5239] [,5240]  [,5241]
## ORI_10219_10218  361.961 205.848 265.932 306.277 280.990 256.721 123.3390
## ORI_10735_10730  574.448 314.877 441.093 674.328 574.195 662.270 309.7820
## ORI_14605_14585  695.166 223.736 407.047 463.656 399.820 413.182 183.1960
## ORI_14607_14586  601.042 279.922 247.057 365.838 294.727 592.238 205.5540
## ORI_14609_14587  683.599 311.375 603.545 562.642 521.660 874.134 245.5020
## ORI_14617_14591  626.145 136.325 261.996 433.803 379.243 295.198 188.5180
## ORI_14623_14594  496.436 217.633 242.866 293.769 304.364 364.848 137.5810
## ORI_14629_14597  771.013 340.808 361.049 225.938 394.593 288.005 196.7880
## ORI_14631_14598  795.507 252.303 611.069 532.089 455.260 603.563 239.2570
## ORI_14633_14599  601.356 265.336 445.541 460.046 206.187 283.900 229.8660
## ORI_14635_14600  530.811 226.284 558.043 419.894 348.665 372.119 200.7830
## ORI_14639_14602  723.475 229.064 321.130 517.510 437.735 336.825 162.3340
##                  [,5242] [,5243]  [,5244]   [,5245]  [,5246]  [,5247]  [,5248]
## ORI_10219_10218  42.9597 283.953 120.7870   73.3630  985.972 143.5960  672.903
## ORI_10735_10730 211.0020 201.453 305.9320  836.5970  784.393 300.2900  932.910
## ORI_14605_14585 182.0750 182.380 165.6070  665.3550  952.474 230.9010  886.725
## ORI_14607_14586 200.6030 263.284 105.0440   93.0006  908.254 170.5340 1124.500
## ORI_14609_14587 196.6590 346.760 246.8100  406.7470  791.332 239.3530 1133.770
## ORI_14617_14591 122.2560 219.723 201.6990   98.7231  719.881 135.8680  807.966
## ORI_14623_14594 145.9570 214.816 210.2200  565.6950  933.180 154.1830  677.236
## ORI_14629_14597  70.5526 306.122 163.5220  358.7350  676.908 265.5460  894.135
## ORI_14631_14598 133.0320 314.556 230.4640  556.4740 1190.760 205.6720  874.434
## ORI_14633_14599 269.9600 275.661 406.0110  286.1250  839.032 238.6650  706.533
## ORI_14635_14600 317.3830 291.095 244.7420  681.0150 1037.360 175.6050  854.971
## ORI_14639_14602 202.4020 286.684 560.3720 1038.8200  930.297 256.0560  752.171
##                 [,5249]  [,5250]  [,5251]  [,5252]  [,5253]  [,5254]  [,5255]
## ORI_10219_10218 199.329  652.267  77.5428 462.1480  883.138  272.848 182.2570
## ORI_10735_10730 308.711  745.677 130.3740  64.8960 1038.590  383.975 184.8330
## ORI_14605_14585 291.987  886.043 130.3160  92.5157 1087.130  429.527 293.0800
## ORI_14607_14586 396.285  485.320  77.1278 250.6250  804.061  597.748 182.0240
```

```
## ORI_14609_14587 392.969 1048.290 269.5810 152.8620 1312.240  554.158 223.5490
## ORI_14617_14591 208.824  516.401 203.3430 588.2300  956.711  190.390  67.6539
## ORI_14623_14594 318.280  777.276 241.5200 584.6630  945.690  283.893 131.5860
## ORI_14629_14597 310.840  727.947 173.1020 110.5620 1210.810  267.682 190.4680
## ORI_14631_14598 356.682  922.532 139.4380 113.6730 1104.670  383.152 111.7440
## ORI_14633_14599 312.749 1312.600 118.6720 222.3440 1355.290  232.951 206.4120
## ORI_14635_14600 377.471  768.302 208.7180 233.2680 1350.740  266.707 215.2540
## ORI_14639_14602 242.658 1033.770  55.1455 173.2270 1270.430  218.715 152.5070
##                  [,5256] [,5257]  [,5258] [,5259]  [,5260]  [,5261]  [,5262]
## ORI_10219_10218  623.049 269.341 1395.300 3682.95  428.444  885.201  920.078
## ORI_10735_10730  338.861 356.764 1004.080 4091.56  531.653 1478.610  770.274
## ORI_14605_14585  504.123 280.050 1380.640 3952.93  589.533 1016.850  607.389
## ORI_14607_14586  368.064 310.586 1481.160 5244.74  880.819 1155.580 1726.780
## ORI_14609_14587  321.772 284.466 1375.070 4368.76  695.223 1381.990 1343.320
## ORI_14617_14591  440.756 304.216 1793.570 3793.78  874.583 1626.650  673.772
## ORI_14623_14594  467.460 822.706 1357.540 3540.73  644.211 1020.130 1124.870
## ORI_14629_14597  426.573 440.105 1025.440 3825.50  579.915  726.423 1334.120
## ORI_14631_14598  307.467 366.537  972.492 4055.99  726.457 1170.910 2088.470
## ORI_14633_14599  353.567 518.374 1003.730 3977.49  778.619 1472.220  953.369
## ORI_14635_14600  483.234 705.882 1217.830 3146.16  731.124  931.807  805.382
## ORI_14639_14602  297.072 490.523 1062.030 3341.64  502.680 1192.300  462.089
##                 [,5263]   [,5264]  [,5265]  [,5266]  [,5267] [,5268] [,5269]
## ORI_10219_10218 329.236  312.9110  456.411 172.1430 176.2640 371.643 575.306
## ORI_10735_10730 338.572  475.9400 1829.320  59.1256 426.1580 325.896 446.858
## ORI_14605_14585 320.896 1109.5700 1910.280  39.9413 197.7230 562.915 386.035
## ORI_14607_14586 360.824  541.9390  562.682 101.8540 177.3390 249.019 483.968
## ORI_14609_14587 529.877 1034.9100  994.188 243.6050 258.0870 528.654 453.327
## ORI_14617_14591 460.852  338.1080  845.764 133.7630 159.7820 318.176 294.136
## ORI_14623_14594 319.616  520.0630 1972.990 128.9390 150.8150 317.205 270.131
## ORI_14629_14597 194.495  814.2100 1198.260  49.5767 112.4180 533.764 521.264
## ORI_14631_14598 335.157  689.7600 1418.990  76.6669 182.1780 318.125 473.120
## ORI_14633_14599 339.370  739.4890 1315.380  92.5134 330.5140 499.849 508.481
## ORI_14635_14600 386.941  642.2110 3098.150  70.8024 376.1110 431.067 272.180
## ORI_14639_14602 251.509  636.0640 1005.130  89.3512  79.9580 384.114 208.374
##                  [,5270] [,5271] [,5272]  [,5273] [,5274] [,5275] [,5276]
## ORI_10219_10218 535.3540 460.106 458.185  24.6827 161.201 345.978 2068.02
## ORI_10735_10730  24.6827 419.749 543.075  24.6827 233.777 442.369 5747.05
## ORI_14605_14585  24.6827 515.103 453.465 118.1580 147.537 617.260 3878.09
## ORI_14607_14586 197.2790 442.780 217.471 907.3560 342.456 617.310 2953.79
## ORI_14609_14587 196.2180 526.545 414.675  72.6420 318.110 565.093 3051.32
## ORI_14617_14591 554.0820 467.000 376.556  24.6827 230.957 526.004 3439.22
## ORI_14623_14594 273.3970 394.375 423.439  38.0805 207.917 550.786 3412.77
## ORI_14629_14597 773.5420 422.685 427.684  24.6827 111.881 493.704 2017.25
## ORI_14631_14598 118.1320 521.905 497.760  35.5875 204.153 608.039 2546.20
## ORI_14633_14599  65.3418 531.234 542.496  24.6827 317.597 571.539 3634.50
## ORI_14635_14600  90.3705 455.218 561.325  51.8998 397.012 560.771 3801.99
## ORI_14639_14602 112.7480 555.710 523.946  33.7029 303.927 370.012 4657.19
##                   [,5277] [,5278]   [,5279]  [,5280]   [,5281]  [,5282]
## ORI_10219_10218 2768.2500 233.695  122.6020  283.077 1109.2500 320.5990
## ORI_10735_10730  208.1160 493.681  355.4510  864.553 1101.6100 188.4710
## ORI_14605_14585  231.1310 319.226  148.5390  784.703 1522.9500 561.8600
## ORI_14607_14586 1475.2100 355.496 1217.2600 1417.870  154.5670 201.0530
## ORI_14609_14587  645.9050 251.010  347.8770  437.732  395.1610 470.1530
## ORI_14617_14591 2727.4400 162.749   73.7623  149.151 1756.8800 168.7380
```

```
## ORI_14623_14594 1906.0500 395.620   98.0627  195.373 2331.6300 182.1480
## ORI_14629_14597  165.5720 327.256   69.1688  253.586  952.9340 215.0050
## ORI_14631_14598  560.4920 334.822  311.2150  469.664  691.0350 303.3250
## ORI_14633_14599  993.5870 307.450  203.9030  392.624 2229.9700 110.3040
## ORI_14635_14600  960.4590 310.400  282.7970  209.917 2263.4400 179.9560
## ORI_14639_14602 1686.9500 409.800  105.9140  238.119 2565.4600 108.9320
##                  [,5283]   [,5284] [,5285]   [,5286]  [,5287] [,5288] [,5289]
## ORI_10219_10218  83.2168 1533.8000 614.029 1452.6600 2334.870 308.501 263.576
## ORI_10735_10730  39.2915  261.8640 501.227  545.9460  559.578 342.836 371.746
## ORI_14605_14585 135.4310 1164.4600 537.002  126.7280 1120.370 233.740 313.937
## ORI_14607_14586 427.6290  418.5480 477.481  342.8820 1453.360 481.432 240.622
## ORI_14609_14587 103.1290  734.5160 386.849  154.1970  759.307 341.498 395.724
## ORI_14617_14591  29.0474 1359.1600 683.562 1250.5700  898.184 236.877 279.603
## ORI_14623_14594  82.7711  686.4100 570.206  635.0470 1068.990 228.432 265.325
## ORI_14629_14597  67.4856  473.3810 605.104  120.4110 1548.610 180.209 440.342
## ORI_14631_14598  73.2695  678.0220 488.210  373.8410 1070.240 316.303 496.882
## ORI_14633_14599  51.5930  722.9190 580.148  976.4820 2049.660 288.483 401.946
## ORI_14635_14600  57.3517  765.8000 582.438  644.2610 1240.830 210.720 287.885
## ORI_14639_14602  46.5024  447.9040 541.990  920.7160  878.270 242.603 432.811
##                  [,5290]  [,5291] [,5292]  [,5293] [,5294] [,5295]  [,5296]
## ORI_10219_10218  992.384 417.0990 210.986 132.4660 311.923 336.816  61.3363
## ORI_10735_10730  600.943 203.3520 211.260 111.3930 247.283 228.248  74.1171
## ORI_14605_14585  562.495 345.2770 264.024 172.1440 412.090 270.806  73.7249
## ORI_14607_14586  861.919 173.0440 158.178 165.3320 317.588 240.272  78.5186
## ORI_14609_14587  428.852 252.2780 124.063 168.4920 228.361 225.526 180.6560
## ORI_14617_14591  727.505 180.6510 190.178 126.9920 503.101 181.159  30.9819
## ORI_14623_14594  584.601 337.5540 362.569 281.5330 541.074 315.624  81.0964
## ORI_14629_14597  244.509 385.3070 248.156 279.5550 470.645 330.977 354.7050
## ORI_14631_14598  417.018 260.1050 274.876 165.8110 249.350 319.110 211.1100
## ORI_14633_14599  397.446 376.5150 277.627 255.6080 350.612 292.543  75.4251
## ORI_14635_14600  408.154 337.9690 312.775 248.0080 365.624 285.160  94.8916
## ORI_14639_14602  341.085 438.6510 195.209 237.9660 324.553 276.162  86.5957
##                 [,5297] [,5298]  [,5299] [,5300] [,5301]  [,5302] [,5303]
## ORI_10219_10218 205.490 437.449 262.3180 327.310 232.135  734.162 195.109
## ORI_10735_10730 298.026 270.579 352.4610 362.193 357.459  442.906 395.817
## ORI_14605_14585 463.321 371.179 293.0580 301.046 214.033  844.076 342.927
## ORI_14607_14586 404.395 290.971 267.8120 256.908 150.893  717.183 520.168
## ORI_14609_14587 514.430 226.771 446.2690 396.204 296.142  675.362 335.994
## ORI_14617_14591 398.148 376.929 421.4420 348.279 179.441  664.839 155.402
## ORI_14623_14594 485.859 337.469 147.8050 280.268 209.160  944.113 234.305
## ORI_14629_14597 400.042 386.169 121.2730 333.924 205.828  851.417 304.628
## ORI_14631_14598 342.968 247.830 421.3450 428.219 296.384  716.952 375.600
## ORI_14633_14599 421.051 361.891 340.8540 467.515 218.035  665.213 335.014
## ORI_14635_14600 436.695 386.815 162.4770 384.514 318.533  884.761 208.462
## ORI_14639_14602 248.009 372.921 109.4860 315.825 287.509  840.064 232.460
##                 [,5304] [,5305]  [,5306]  [,5307]  [,5308] [,5309]  [,5310]
## ORI_10219_10218 1481.89 497.633 177.8150  313.495 1303.880 512.100 235.1610
## ORI_10735_10730 2137.01 463.946 201.5170  815.192  345.130 168.752 275.1140
## ORI_14605_14585 1726.38 433.910  88.3961 1057.550  913.048 507.201 203.6190
## ORI_14607_14586 1778.39 489.069 120.2570  459.354  522.005 547.330 206.7150
## ORI_14609_14587 1834.54 584.778 146.1580 1537.910  740.290 420.558 417.0950
## ORI_14617_14591 1582.82 573.504 111.3780  752.315 1185.120 560.611 114.4340
## ORI_14623_14594 1051.37 524.358 119.9240  631.937  557.733 586.097 139.7000
## ORI_14629_14597 1569.43 524.848 314.3630  275.291  413.016 468.512 242.1000
```

```
## ORI_14631_14598 1753.82 579.133 155.6840  869.848  543.421 465.701 240.8510
## ORI_14633_14599 1416.50 555.671  56.9890 1036.150  561.905 489.032 138.4970
## ORI_14635_14600 1103.34 582.263 106.1540  933.412  636.884 392.251 122.5340
## ORI_14639_14602 1267.35 633.371 151.1840  186.910  235.143 225.860  97.5644
##                  [,5311]  [,5312]  [,5313] [,5314]  [,5315] [,5316] [,5317]
## ORI_10219_10218 1364.940  304.953  52.7605 199.254 106.1200 185.092 393.988
## ORI_10735_10730 1182.820  727.726 118.7480 571.954 129.3590 253.436 252.052
## ORI_14605_14585 1350.860  627.963  43.8520 298.946 175.7630 194.136 253.053
## ORI_14607_14586 2222.760  512.973 170.5080 396.306 271.3860 318.069 224.342
## ORI_14609_14587 1846.270  816.085  92.6125 375.018 277.4890 349.946 180.529
## ORI_14617_14591 1982.080  435.590  36.1830 312.937 154.0970 146.013 435.367
## ORI_14623_14594 1519.350  507.019  56.6011 298.042 145.2140 120.209 316.664
## ORI_14629_14597 1559.110  575.356 109.0170 195.342 124.7860 133.282 247.639
## ORI_14631_14598 1533.010  629.635 114.4390 363.385 153.8490 351.094 240.502
## ORI_14633_14599 1112.080  631.951  54.0372 321.603 110.8950 181.443 301.163
## ORI_14635_14600 1525.290  558.009  56.6571 399.899 132.5420 181.853 343.398
## ORI_14639_14602  555.810  297.542  71.5983 309.683  80.6050 110.829 301.292
##                 [,5318]  [,5319] [,5320]  [,5321]  [,5322]  [,5323] [,5324]
## ORI_10219_10218 307.718 232.9820 473.470  911.158 1568.700 106.4100 528.559
## ORI_10735_10730 603.692 103.3360 640.325  453.594  488.919 389.6190 478.364
## ORI_14605_14585 446.040 185.3570 575.496  487.815  418.349 120.3590 484.822
## ORI_14607_14586 621.264 315.1230 688.564  483.437  626.006 166.7210 369.633
## ORI_14609_14587 433.779 145.2480 798.143  618.360  749.989 353.0720 391.780
## ORI_14617_14591 436.353  61.1977 499.967  983.445  863.569 241.8950 447.933
## ORI_14623_14594 394.106 168.6180 349.966  586.186  680.763 166.1100 571.442
## ORI_14629_14597 527.259 226.7630 744.451  343.659  555.530 206.0420 478.523
## ORI_14631_14598 593.888 182.4640 566.956  542.155  568.127 688.1680 537.826
## ORI_14633_14599 332.936 266.1930 551.322  693.904  428.857 129.1140 529.187
## ORI_14635_14600 403.630 230.9310 595.115  741.415  517.654 144.3980 595.457
## ORI_14639_14602 493.292 202.7180 682.848  532.890  287.845 193.9180 432.184
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## ORI_10219_10218 1252.410  375.955  727.2310 674.460 215.931 195.3470  236.512
## ORI_10735_10730  931.210  408.702   82.8113 619.829 260.764 115.0110  553.512
## ORI_14605_14585  999.080  409.940  634.8040 622.980 277.816 191.5630  403.269
## ORI_14607_14586  894.041  765.071  202.1000 471.358 398.448 294.7990  752.282
## ORI_14609_14587  896.572  519.260  235.1910 841.125 226.485 156.3020  628.834
## ORI_14617_14591 1010.750  310.538  563.4640 731.615 123.576  39.0997  122.396
## ORI_14623_14594  889.791  285.609  362.6090 547.992 172.685  89.5061  130.079
## ORI_14629_14597  787.145  660.411  126.7970 521.927 222.278  90.8995  344.819
## ORI_14631_14598 1002.440  661.517   74.5728 544.159 222.863 185.6710  544.821
## ORI_14633_14599 1333.970  358.857  150.3770 553.184 182.340  85.0225  377.817
## ORI_14635_14600  780.450  299.780  304.1620 819.403 173.926 105.1230  206.748
## ORI_14639_14602 1174.200  506.169   68.2529 406.750 220.190  60.6743  181.907
##                 [,5332]  [,5333]  [,5334]   [,5335]  [,5336] [,5337]  [,5338]
## ORI_10219_10218 324.533  733.650  305.665  229.0800  870.557 510.287  87.8547
## ORI_10735_10730 358.534 1130.570  734.504  587.7590 2473.840 420.905 586.3400
## ORI_14605_14585 427.423  972.715  311.197  281.1340 1502.760 460.158 267.3630
## ORI_14607_14586 441.217  980.359  965.992  738.3520 2420.780 531.016 282.1970
## ORI_14609_14587 481.543 1052.310  650.982  474.5350 1694.850 438.359 378.8110
## ORI_14617_14591 434.301 1094.960  293.176  158.7390  857.295 511.242 183.7140
## ORI_14623_14594 446.816  883.771  227.250  117.4970  799.155 502.766 218.6640
## ORI_14629_14597 341.321  498.205  876.371  160.8110 2247.820 451.355 331.0040
## ORI_14631_14598 416.956 1289.100  588.809  353.5040 2376.840 573.459 397.3730
## ORI_14633_14599 368.205  977.498  455.507  148.6120 1343.260 520.777 328.3010
```

```
## ORI_14635_14600 656.839 1084.630  258.486   91.5843  753.242 531.449 344.1530
## ORI_14639_14602 453.350  954.706  349.879  109.7880 2078.300 541.259 286.0330
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## ORI_10219_10218  163.1430 393.676 1663.78 1937.02  876.743 1111.590 317.7890
## ORI_10735_10730  302.4720 480.876 1951.09 3195.55  846.408 1622.800  24.6827
## ORI_14605_14585  867.7910 400.872 2118.35 2858.18  862.751 1822.870 592.0430
## ORI_14607_14586  981.6070 396.582 2552.21 3343.63 1024.090 1719.820 136.2440
## ORI_14609_14587  685.8450 435.797 2452.40 3408.15 1089.840 1653.960 151.3350
## ORI_14617_14591  341.2860 276.980 2429.35 3364.14  911.162 1782.540 175.1600
## ORI_14623_14594  378.6660 326.834 1991.34 2713.74  888.509 1844.070 139.2440
## ORI_14629_14597  317.1110 344.008 2074.54 2260.88  803.357 1446.840  56.6943
## ORI_14631_14598  996.9550 535.184 2211.85 2660.10 1019.860 1287.920  92.0928
## ORI_14633_14599  957.4770 304.875 2605.73 3496.89  935.738 1757.950  85.9875
## ORI_14635_14600  397.7100 345.545 3039.67 3936.49  981.864 1934.350 343.9580
## ORI_14639_14602  182.4660 385.419 2402.35 3071.23  520.300 1631.020 193.6330
##                 [,5346]  [,5347] [,5348]   [,5349] [,5350]  [,5351] [,5352]
## ORI_10219_10218 426.903  853.363 627.086 1239.2100 157.610  25.6380 200.026
## ORI_10735_10730 350.533 1287.840 513.830  507.8600 184.478  66.5782 293.234
## ORI_14605_14585 386.218  816.953 678.472 1927.7500 205.190  39.7578 262.986
## ORI_14607_14586 250.086  946.772 437.564  752.2200 265.082  56.7807 203.036
## ORI_14609_14587 262.725  967.514 465.549  983.4570 131.726  36.2015 242.315
## ORI_14617_14591 344.034  767.529 417.398  444.5390 182.170  30.9247 374.670
## ORI_14623_14594 434.273  619.548 522.870  604.6930 246.550  37.9298 348.308
## ORI_14629_14597 395.710  629.394 621.523  456.6960 234.531  70.6920 313.923
## ORI_14631_14598 224.113 1128.360 530.117  801.2460 255.456  45.4843 391.806
## ORI_14633_14599 436.986 1215.080 517.506  660.9550 191.966  88.5785 284.098
## ORI_14635_14600 541.008  686.765 516.318  563.6720 189.369  51.7166 372.809
## ORI_14639_14602 458.069  983.936 418.983  221.1630 218.411  80.0197 371.584
##                 [,5353] [,5354]  [,5355]  [,5356]  [,5357]  [,5358] [,5359]
## ORI_10219_10218 151.384 271.749  358.416  497.647  473.169 131.5120 400.723
## ORI_10735_10730 332.803 460.034  956.789 1299.740  639.117 181.9690 719.086
## ORI_14605_14585 168.878 484.415  497.235  802.160  561.851 109.3490 925.278
## ORI_14607_14586 241.809 176.958  620.619  622.724  431.648 200.0620 522.676
## ORI_14609_14587 213.278 369.556  655.104 1765.590  656.587 301.2350 685.131
## ORI_14617_14591 112.208 344.698  398.602  930.884  446.273 132.5950 445.370
## ORI_14623_14594  86.183 399.872  431.509  804.949  363.916  97.0894 448.576
## ORI_14629_14597 177.732 137.950  493.402 2108.760  559.424  48.1199 622.246
## ORI_14631_14598 160.017 328.501  643.467 1453.370  618.314 191.1700 839.242
## ORI_14633_14599 144.790 318.559  772.465 1228.700  737.370 158.5090 592.975
## ORI_14635_14600 137.061 433.388  908.644  887.223  815.423 190.2290 654.269
## ORI_14639_14602 262.414 439.495  427.505  925.499  747.765 123.7380 762.152
##                   [,5360]  [,5361]  [,5362]  [,5363]  [,5364]  [,5365] [,5366]
## ORI_10219_10218  848.1420 265.4650 216.9150 1019.230  40.0518  680.975 419.130
## ORI_10735_10730  266.8070  47.1269  45.7039  655.950 139.5920 1548.740 334.660
## ORI_14605_14585  288.9820  57.4574 146.2770  590.958 108.3700  682.769 383.734
## ORI_14607_14586  420.5430 109.6270  87.0300  703.372 249.4960 1410.320 527.157
## ORI_14609_14587  331.2970  83.5772  77.9820  390.951 289.0360 1638.620 484.866
## ORI_14617_14591  994.1370 231.6830 161.7120  941.856  71.5406 1256.470 476.042
## ORI_14623_14594  727.2670 175.7550 186.2320 1130.460  71.5051  666.188 337.883
## ORI_14629_14597  130.3000  94.3993 125.9350  457.469  62.5787 1592.370 321.793
## ORI_14631_14598  189.5510  79.6682 107.4060  572.432 177.3140 1534.420 416.292
## ORI_14633_14599  318.0720  69.3105 210.3980  531.829  95.8810  482.493 414.144
## ORI_14635_14600  466.2580  92.5525 228.9960  635.705  57.2153  641.394 441.970
## ORI_14639_14602  366.8190  63.1084 136.2370  634.478  42.4228 1084.810 210.804
```

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##                  [,5367]  [,5368]  [,5369]  [,5370]  [,5371]   [,5372] [,5373]
## ORI_10219_10218  718.158 133.5380 265.6550 1331.350  281.555 2071.6100 303.407
## ORI_10735_10730  628.492 366.6450 204.1480 1151.060  278.721 1264.4200 273.769
## ORI_14605_14585  607.966 187.3960 175.9800 1420.900  237.827 1966.1000 286.916
## ORI_14607_14586  574.307 371.8140 162.0430 1318.400  663.006  792.2440 296.458
## ORI_14609_14587  689.992 276.3040 183.4380 1366.550  243.315 1348.2800 304.187
## ORI_14617_14591  821.160 137.1730 170.9370 1285.950  169.654 1424.5100 305.116
## ORI_14623_14594  549.642 147.2020 318.1120 1521.980  246.336 1466.1600 311.336
## ORI_14629_14597  725.615 210.3460 109.9460 1057.450  328.353 1134.7700 271.944
## ORI_14631_14598  645.112 266.7620 160.9830 1722.620  401.979  223.8290 172.221
## ORI_14633_14599 1038.970 262.2090 254.4870 1428.050  261.896  797.5370 328.316
## ORI_14635_14600  783.820 208.8660 341.3030 1337.350  215.033 1168.6400 271.042
## ORI_14639_14602  893.000 238.1270 217.0830 1296.060  218.106  349.3850 205.956
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## ORI_10219_10218 170.5800  175.5410 2977.070 252.640 351.120 318.9830 139.0430
## ORI_10735_10730 249.4570  514.9440 1750.040 291.611 308.596 406.4590 155.1380
## ORI_14605_14585 173.9140  208.4920 2894.910 316.248 323.981 307.2700 139.5810
## ORI_14607_14586 185.7100  740.9720 2406.870 369.726 409.072 533.2800 459.1860
## ORI_14609_14587 236.4670  358.6660 3012.410 452.125 241.603 226.3890 451.1680
## ORI_14617_14591 184.4000  152.5310 2995.790 368.693 295.078 299.3650 161.8050
## ORI_14623_14594 232.5270  189.1200 2305.710 175.806 391.214 308.6880 171.7560
## ORI_14629_14597 134.1410 1544.5500 2429.800 348.913 419.394 473.1680 104.8800
## ORI_14631_14598 176.8270  647.7840 3307.040 378.691 352.734 641.2100 191.4780
## ORI_14633_14599 196.6610  171.1690 2195.530 457.882 460.056  87.9012 139.9640
## ORI_14635_14600 194.1240  160.0970 2854.110 383.978 385.408 365.8840 127.9130
## ORI_14639_14602 168.8750  213.9930 1979.480 209.216 352.393 337.8100 199.3210
##                 [,5381] [,5382]  [,5383] [,5384]  [,5385] [,5386] [,5387]
## ORI_10219_10218 341.856 464.711 302.8360 421.349 1076.240 193.470 350.038
## ORI_10735_10730 357.327 295.092 161.4500 228.916  923.528 344.418 554.843
## ORI_14605_14585 631.285 497.430 328.1640 467.147  943.550 173.106 530.536
## ORI_14607_14586 376.298 200.213 316.5250 322.074  699.159 208.613 422.576
## ORI_14609_14587 474.095 312.467 601.6390 400.016  805.468 295.526 610.431
## ORI_14617_14591 170.717 275.663 557.4770 339.174  644.943 222.514 449.917
## ORI_14623_14594 426.286 342.078 353.1430 193.337  722.477 189.868 436.083
## ORI_14629_14597 401.504 370.800 152.2180 413.507  814.161 250.797 242.338
## ORI_14631_14598 314.495 314.938 339.3970 282.587  718.329 263.236 433.184
## ORI_14633_14599 470.836 471.599 226.6270 529.804  985.531 212.394 507.314
## ORI_14635_14600 516.584 387.993 228.5090 465.460  785.976 263.959 463.907
## ORI_14639_14602 322.270 408.631 116.0820 440.834  901.185 374.918 316.369
##                  [,5388] [,5389]  [,5390]   [,5391]  [,5392] [,5393]  [,5394]
## ORI_10219_10218  309.698 2555.61  961.690  139.9050 172.8510 362.990  581.066
## ORI_10735_10730 1740.740 2126.58  842.896  845.8150 118.6000 165.001  485.055
## ORI_14605_14585  414.904 2834.75  833.881  589.2790 161.2160 301.873  296.819
## ORI_14607_14586 1597.760 2224.43  805.467  249.7550 282.4710 257.645  612.192
## ORI_14609_14587 2939.610 2895.25 1434.450  367.2860 268.7810 346.038  452.731
## ORI_14617_14591  343.288 3650.08  955.611  113.3390 219.8580 297.966  692.036
## ORI_14623_14594  351.175 2710.77 1053.140  172.6000 222.3970 283.196  357.836
## ORI_14629_14597  688.470 3601.56  510.485  431.8170 420.9940 235.975  232.165
## ORI_14631_14598 2173.540 3099.70  839.893  579.9740 437.2080 208.542  440.803
## ORI_14633_14599  439.588 2018.69 1713.240  512.6670 116.2730 345.251  399.083
## ORI_14635_14600  627.144 2536.17 1439.970  654.8310 104.1910 247.284  347.923
## ORI_14639_14602  654.655 2052.92  756.783  840.6920  80.1453 122.452  284.871
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## ORI_10219_10218 1523.480  664.258 1089.88 1333.64  752.642 277.9110 329.850
```

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## ORI_10735_10730 1801.140  600.482 1942.97 2428.65 1060.810 200.5730 514.025
## ORI_14605_14585 1572.790  784.263 1700.83 2167.50  934.210 230.6950 280.745
## ORI_14607_14586 1343.290  585.179 2434.48 2230.32  285.675 259.4530 185.321
## ORI_14609_14587 1518.210 1034.890 1507.32 1752.96  397.399 360.9270 330.043
## ORI_14617_14591 1239.150  965.508 1529.95 1807.67  603.081 459.9920 224.533
## ORI_14623_14594 1394.880  779.304 1555.57 1539.43  750.566 235.8810 278.936
## ORI_14629_14597 1368.280 1065.720 1741.13 2501.70  339.523 198.5840 386.468
## ORI_14631_14598 1547.220 1379.900 1553.36 1752.27  379.950 205.8010 310.327
## ORI_14633_14599 1961.720  965.411 1736.64 2085.31  630.763 366.6470 463.874
## ORI_14635_14600 1859.290  889.115 1657.06 1957.03  996.226 269.7590 327.459
## ORI_14639_14602 1210.040 1019.970 1751.35 2657.22  681.739 174.7680 419.132
##                  [,5402] [,5403] [,5404]  [,5405]  [,5406]  [,5407] [,5408]
## ORI_10219_10218 204.9710 110.590 218.036  861.133 259.6710 1392.830 423.720
## ORI_10735_10730 184.5980 215.891 678.603  705.143  80.1033  896.261 382.960
## ORI_14605_14585 126.4940 152.521 320.864 1368.520  24.6827 1432.590 294.827
## ORI_14607_14586  88.0843 366.593 415.467  654.561 143.7940  756.403 159.258
## ORI_14609_14587  61.1435 147.029 317.589  962.391 114.9940 2297.390 422.715
## ORI_14617_14591 208.6570 107.347 398.829 1106.250 281.6690 1728.880 430.599
## ORI_14623_14594 211.4930 190.359 206.631  978.666  99.0115 1206.510 223.755
## ORI_14629_14597  66.7775 298.716 581.803 1316.080  24.6827 1353.710 129.236
## ORI_14631_14598  55.4392 249.122 518.289 1269.510  74.5044 1573.720 242.770
## ORI_14633_14599 212.7420 244.629 259.836  834.101  54.6121 1167.480 475.708
## ORI_14635_14600 180.2530 146.367 143.991 1003.050  52.3475  621.968 297.734
## ORI_14639_14602  92.6304 215.564 996.210  996.388  71.0407 1305.600 469.788
##                 [,5409]  [,5410]  [,5411]  [,5412]  [,5413]   [,5414]  [,5415]
## ORI_10219_10218 321.172  70.6110 126.8370 125.3330 160.2930  182.0660  56.6170
## ORI_10735_10730 270.705 393.3480 336.0610 158.5070 162.2660  962.8080  53.8174
## ORI_14605_14585 309.670 165.7390 139.1260 173.5460 101.6240  166.5230  49.8331
## ORI_14607_14586 190.547 119.5400 141.1370 108.6830 116.0080  142.8970  70.7296
## ORI_14609_14587 145.048 164.5870 167.7760 198.4250 206.6210  130.9560 360.2290
## ORI_14617_14591 122.548 171.2640 160.8810  97.6232  76.7908  146.9100  52.7971
## ORI_14623_14594 424.538 214.3720 189.6680 325.8540 297.9380  150.2200 217.2090
## ORI_14629_14597 262.917 121.3330 100.5100 168.7240  81.0319  112.9190  24.6827
## ORI_14631_14598 297.534 194.3080 147.1680 240.6070 262.2980  124.8040 357.6470
## ORI_14633_14599 275.668 282.0480 190.8780 226.8250 198.9910  505.2430  76.0028
## ORI_14635_14600 315.209 285.1560 209.9260 213.1060 211.4330  153.6980  99.8521
## ORI_14639_14602 270.184 409.6120 356.7200 206.3520 240.4820  372.4260 120.5530
##                 [,5416] [,5417]  [,5418] [,5419]  [,5420]  [,5421]  [,5422]
## ORI_10219_10218 747.266 289.423 144.7160 324.896 1748.390  181.987 1106.110
## ORI_10735_10730 433.510 335.128 262.6990 266.938 1194.730  468.820 1209.670
## ORI_14605_14585 820.255 197.327 253.1660 308.591 1323.910  508.112 1081.740
## ORI_14607_14586 564.505 226.457 419.8690 208.813  961.887  390.564  953.912
## ORI_14609_14587 629.568 270.048 328.0880 159.828 1348.490  578.916 1212.550
## ORI_14617_14591 541.173 286.117 197.2110 322.698 2101.790  300.339 1104.110
## ORI_14623_14594 897.963 218.975 123.3060 391.310 1365.570  454.913  815.215
## ORI_14629_14597 744.017 163.940 122.9670 351.439 1056.970  414.569  540.826
## ORI_14631_14598 500.720 237.523 249.7560 217.719 1631.960  378.009  982.833
## ORI_14633_14599 753.870 330.840 176.6860 322.940 1643.070  498.035 1115.260
## ORI_14635_14600 627.862 224.357 147.7110 324.717 1422.650  782.287  954.137
## ORI_14639_14602 621.108 351.142 228.0620 331.963  912.576  552.177  843.289
##                 [,5423] [,5424]  [,5425] [,5426]  [,5427]  [,5428]  [,5429]
## ORI_10219_10218 192.115 659.826  422.343 301.709 417.9410  542.001 129.3600
## ORI_10735_10730 385.111 504.250  883.192 591.662 111.6260 1198.990 356.1580
## ORI_14605_14585 240.276 602.224  554.575 417.189 306.3950  468.090  24.6827
```

```
## ORI_14607_14586 249.461 411.655 1250.140 582.982 135.3970  749.913  55.0199
## ORI_14609_14587 292.534 418.837  358.541 389.521 487.0030  865.635  74.2408
## ORI_14617_14591 140.703 442.258  278.253 370.083 369.9550  732.274  65.9898
## ORI_14623_14594 174.194 810.912  458.405 316.954 512.2000  984.778  24.6827
## ORI_14629_14597 306.918 536.491  383.218 291.047  24.6827 1390.800  24.6827
## ORI_14631_14598 220.754 508.510  829.664 445.755  86.3599 1208.850 110.7660
## ORI_14633_14599 280.362 614.178  264.380 348.950 274.8070 1002.210  24.6827
## ORI_14635_14600 150.227 810.148  319.298 307.732 628.6880 1264.800  24.6827
## ORI_14639_14602 456.798 697.366  321.039 338.419 164.9680 1222.930 150.5100
##                  [,5430]  [,5431]  [,5432]  [,5433]   [,5434] [,5435]  [,5436]
## ORI_10219_10218 1449.080 389.8400  502.219  768.105 1005.9600 276.743  590.771
## ORI_10735_10730 1317.030  24.6827  757.976  621.375   89.3080 241.239 1073.640
## ORI_14605_14585  558.783  58.7510  631.972  640.465 1397.9500 262.570  820.873
## ORI_14607_14586  812.914 282.6410  408.971  559.195  304.8930 193.499  565.406
## ORI_14609_14587  485.121  61.1692  410.609  740.237  634.2700 413.791  549.251
## ORI_14617_14591 1505.800 624.4520  559.371 1079.460  504.5210 244.002  565.575
## ORI_14623_14594  847.342 245.6230  415.606  509.117  293.1630 192.717  832.077
## ORI_14629_14597  857.700  31.3566  478.581  689.351  244.4560 104.432  896.727
## ORI_14631_14598  421.405  50.5224  502.787  645.487  356.7460 254.527  815.560
## ORI_14633_14599 1093.580 294.9130  574.715  592.227   67.4026 124.091  678.711
## ORI_14635_14600  530.095 354.3240  505.997  592.143  525.5060 186.690  936.368
## ORI_14639_14602  804.384 186.2280  534.255  576.415   59.7205 333.979  985.183
##                 [,5437] [,5438]  [,5439] [,5440]  [,5441] [,5442] [,5443]
## ORI_10219_10218 582.404 156.942 120.7820 568.946  501.539 279.415 273.589
## ORI_10735_10730 822.148 287.985 177.7420 357.121 1030.230 351.255 291.616
## ORI_14605_14585 645.113 260.770 153.4910 424.545  795.971 304.288 414.106
## ORI_14607_14586 688.073 185.289 174.0070 364.293  918.252 274.700 306.345
## ORI_14609_14587 814.841 375.590 195.3090 296.324 1012.800 335.468 475.875
## ORI_14617_14591 726.930 193.847 144.0480 287.209  646.862 279.486 290.973
## ORI_14623_14594 389.616 212.117 139.7070 493.445  572.886 297.059 362.531
## ORI_14629_14597 944.380 165.180 158.0360 412.161  499.779 253.373 265.831
## ORI_14631_14598 854.467 571.610 111.8340 292.165  804.882 328.855 357.155
## ORI_14633_14599 562.367 273.074 172.2450 526.296  789.388 291.251 421.559
## ORI_14635_14600 574.791 521.520 224.4630 509.254  874.366 319.557 374.362
## ORI_14639_14602 544.724 180.706 142.6410 400.739  466.215 397.237 317.523
##                  [,5444]   [,5445]  [,5446] [,5447]  [,5448]  [,5449] [,5450]
## ORI_10219_10218 188.2440 1875.2400  452.197 827.592  678.505 3044.290 255.187
## ORI_10735_10730  43.0819  188.7760  285.910 327.307  943.350 1802.650 496.861
## ORI_14605_14585 192.3120  358.5090  419.766 306.659  741.147 2981.520 266.501
## ORI_14607_14586 144.4540 1114.9600  374.357 621.455 1060.450 2550.350 409.949
## ORI_14609_14587  55.4344  525.0250  302.374 600.518  921.077 3130.230 547.670
## ORI_14617_14591 138.7290 2498.2800  357.991 867.596 1169.710 2385.070 375.330
## ORI_14623_14594 122.0730 1951.4000  549.235 507.168  577.125 3450.590 270.878
## ORI_14629_14597  69.4955  265.3750  372.623 359.288 2685.050 3100.680 200.343
## ORI_14631_14598  34.6655  327.7800  252.113 349.042 1255.940 2185.020 260.756
## ORI_14633_14599  61.8111  794.3660  427.745 427.120 1140.030 2901.000 553.395
## ORI_14635_14600  57.4497  846.0890  287.388 548.331  603.392 2746.070 206.863
## ORI_14639_14602  24.6827  316.6800  302.120 257.619 1499.020 2498.690 427.292
##                 [,5451]  [,5452]  [,5453]  [,5454] [,5455]   [,5456] [,5457]
## ORI_10219_10218 302.466  668.258  785.096 131.4720 175.266  424.4380 394.198
## ORI_10735_10730 312.612  297.365  344.947 210.8350 202.444  480.9410 346.654
## ORI_14605_14585 373.528  930.449  998.485 213.7770 185.766  311.5070 301.732
## ORI_14607_14586 435.798  463.681 1125.290  94.0589 253.513  235.3390 331.218
## ORI_14609_14587 337.991  757.542 1379.520 179.1200 246.074  479.4320 377.486
```

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## ORI_14617_14591 253.716  625.068  746.146 223.7970 237.542  201.6130 161.203
## ORI_14623_14594 319.483  364.456  864.130 202.6470 180.099  143.1820 210.126
## ORI_14629_14597 271.581  640.525  335.107 251.6760 150.998  532.8970 320.246
## ORI_14631_14598 345.824  421.001  712.882 271.9780 342.103  541.0970 230.452
## ORI_14633_14599 456.404  696.044 1602.940 205.5050 203.188  137.6380 291.193
## ORI_14635_14600 380.807  725.808  831.387 198.9010 276.763  128.7350 229.588
## ORI_14639_14602 535.318  274.930  290.143 142.0890 252.191  342.4240 276.578
##                  [,5458]   [,5459]  [,5460]  [,5461]  [,5462]  [,5463]  [,5464]
## ORI_10219_10218  368.217  197.7000  561.533  278.222  44.7325  732.700  928.428
## ORI_10735_10730 1081.330  204.7810 2033.290  763.782  62.5665  700.558 1166.220
## ORI_14605_14585  494.399  173.5270  915.393  371.619  94.1733  997.209  859.437
## ORI_14607_14586  898.623  259.2510  947.555 1135.370 291.2200  757.365  881.627
## ORI_14609_14587  749.017  189.2420  422.773  496.247 130.9000  749.785  944.661
## ORI_14617_14591  407.740  210.9560 1723.300  563.887  34.5144  886.396 1340.440
## ORI_14623_14594  300.082  182.9000 2614.250  376.948  24.6827  770.679 1030.510
## ORI_14629_14597 1032.030  480.6210  336.762  656.179  24.6827  639.301  552.745
## ORI_14631_14598  805.135  151.8170  973.633  963.236 152.1530  733.540 1167.830
## ORI_14633_14599  262.202  158.4520 2020.220  351.263  24.6827  965.847  975.104
## ORI_14635_14600  327.779  185.5780 2158.450  237.659  24.6827  764.786 1138.020
## ORI_14639_14602  272.188  202.4790 3483.800  466.187  24.6827  721.563  804.103
##                  [,5465] [,5466] [,5467]  [,5468]  [,5469]   [,5470]  [,5471]
## ORI_10219_10218  727.459 139.034 423.404  183.711 160.9590   78.0291 134.7300
## ORI_10735_10730  642.010 633.849 258.674 1492.460 460.7500  660.3540 165.2800
## ORI_14605_14585  532.260 226.769 255.747  875.404 248.2010  195.0320 115.4510
## ORI_14607_14586  645.791 370.782 218.717 1178.620 422.3200  286.6300 121.2020
## ORI_14609_14587  796.133 257.811 239.701  476.974 383.9400  272.9180 138.8420
## ORI_14617_14591  873.451 113.088 377.585  183.882 170.5300  137.8070 123.7630
## ORI_14623_14594  506.474 155.188 271.773  310.405 196.1840   80.6944 178.1620
## ORI_14629_14597  819.462 175.479 186.833  667.798 271.6900  815.9530 115.7640
## ORI_14631_14598  738.534 249.091 263.154  775.791 439.4750  605.8360 160.3170
## ORI_14633_14599  674.433 204.701 241.674  335.375 130.5690  341.9610  94.1107
## ORI_14635_14600  515.276 177.889 181.785  241.512 194.3430   96.8171 127.4120
## ORI_14639_14602  516.743 237.438 195.090  309.638 155.4770  404.2340  90.4806
##                 [,5472]  [,5473]  [,5474] [,5475]  [,5476] [,5477]  [,5478]
## ORI_10219_10218 603.107 141.8160 505.5200 191.985 181.8120 3316.62  532.737
## ORI_10735_10730 552.401  24.6827 267.5130 590.867 106.3830 3097.73  534.161
## ORI_14605_14585 426.003  57.3301 162.5760 184.958  66.7921 4182.38  521.931
## ORI_14607_14586 575.673  61.1496 218.0450 360.653  67.7099 2701.96  573.961
## ORI_14609_14587 476.167  66.0470 345.2770 274.333 114.7640 2662.87  441.546
## ORI_14617_14591 451.184 128.8930 278.7770 418.113 122.9400 3562.31  347.256
## ORI_14623_14594 379.319 191.2410 268.3950 220.824 156.3680 3996.71  504.241
## ORI_14629_14597 372.526  68.3260 277.7680 228.612  61.9505 2232.14  215.973
## ORI_14631_14598 630.866  56.7629 732.6270 295.781 164.3650 2724.37  332.234
## ORI_14633_14599 378.969 217.6180 369.1740 498.819 165.1690 4585.45  594.415
## ORI_14635_14600 349.211  35.7162  97.4071 202.437 150.8180 3923.32  436.481
## ORI_14639_14602 301.596 106.3010 620.7730 139.591  72.8587 2050.71  285.285
##                  [,5479] [,5480]  [,5481]   [,5482]  [,5483]  [,5484] [,5485]
## ORI_10219_10218  492.396 699.226  837.736 2312.1600  598.529 156.5310 170.570
## ORI_10735_10730  888.919 854.331 1310.770  947.8190  534.191 288.0110 304.294
## ORI_14605_14585  600.560 682.012 1816.230 1290.2600  557.716  94.4876 195.258
## ORI_14607_14586  564.649 668.986  250.258 1092.5300  645.644 114.9830 325.854
## ORI_14609_14587  695.585 616.721  368.117 1119.2300  883.187 397.0690 289.332
## ORI_14617_14591  616.201 781.730  788.281 2371.1900  786.071 100.9930 209.635
## ORI_14623_14594  345.459 563.513  571.423 1990.4900  560.645 137.7860 135.354
```

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## ORI_14629_14597  389.635 716.630 2107.450 1434.6400  467.424  57.1659 303.393
## ORI_14631_14598  905.539 665.375  905.183 1152.4800  626.099 135.7500 333.161
## ORI_14633_14599  672.836 623.634  849.094  511.8160  751.340 183.8680 181.650
## ORI_14635_14600  546.481 547.257  875.615 1308.6800  952.149 188.7260 176.049
## ORI_14639_14602  423.741 348.019 1128.770 1557.0600  711.552 234.8760 263.797
##                  [,5486] [,5487]   [,5488] [,5489]  [,5490] [,5491] [,5492]
## ORI_10219_10218 145.9090 341.136  127.4670 468.500 1394.590 1749.15 295.018
## ORI_10735_10730 173.1150 496.600   24.6827 645.010  970.170 2378.32 231.506
## ORI_14605_14585 174.4150 461.318  375.2210 626.272 1434.620 1941.15 291.139
## ORI_14607_14586 127.1480 346.833  905.5030 496.070 1501.640 1922.99 296.673
## ORI_14609_14587 200.3970 728.667   97.8887 649.702 1917.370 1861.53 370.411
## ORI_14617_14591 165.4370 271.811  129.5370 299.799 1319.350 1342.53 348.199
## ORI_14623_14594 125.9380 234.613  103.2160 350.617 1567.100 1754.97 355.038
## ORI_14629_14597 146.4780 173.684   24.6827 426.739 1763.670 1824.00 296.338
## ORI_14631_14598 262.7240 605.761   30.7663 544.448 1401.450 1704.65 411.383
## ORI_14633_14599 188.2390 375.183  223.5600 560.688 1730.510 2006.46 216.214
## ORI_14635_14600 140.0420 370.689   48.4866 418.559 1459.140 1554.26 259.872
## ORI_14639_14602 122.3650 412.635  410.6440 574.271 1322.210 1553.59 246.460
##                  [,5493] [,5494] [,5495]  [,5496]  [,5497] [,5498] [,5499]
## ORI_10219_10218 185.0920 432.314 435.577 191.7280 226.0230 510.239 310.825
## ORI_10735_10730  96.4046 489.460 322.846 294.1220 403.6490 530.294 375.799
## ORI_14605_14585 234.7490 426.660 384.524 635.1790 471.5990 331.832 370.554
## ORI_14607_14586 218.5180 531.165 274.382 138.4430 315.1800 440.202 268.669
## ORI_14609_14587 251.9980 389.495 271.195 448.3650 392.8270 455.454 407.141
## ORI_14617_14591 251.6190 321.702 341.231 291.3130 303.4700 472.615 259.101
## ORI_14623_14594 167.3650 322.209 368.603 292.5270 224.3400 354.585 357.065
## ORI_14629_14597 170.7200 362.801 388.084 463.5890 317.5160 306.891 417.125
## ORI_14631_14598 134.0890 431.712 304.324 412.0940 348.5380 424.318 384.560
## ORI_14633_14599 190.1430 449.801 418.878 248.9200 279.3930 371.082 439.086
## ORI_14635_14600 163.7030 386.022 397.781 368.5000 289.6320 369.763 420.735
## ORI_14639_14602  28.0329 529.041 345.365 235.2690 181.2410 389.966 261.469
##                  [,5500]  [,5501] [,5502] [,5503]  [,5504]   [,5505]  [,5506]
## ORI_10219_10218 234.9380  844.878 559.537 703.036  392.674  190.9150  713.767
## ORI_10735_10730 187.0290  789.455 494.242 640.687  432.901  183.2190  488.419
## ORI_14605_14585 259.1390  804.592 522.940 466.114  514.833  166.4600  690.974
## ORI_14607_14586 228.9080  668.788 538.130 417.407  389.890   81.8525  254.486
## ORI_14609_14587 252.1900  619.218 467.349 605.563  601.380  201.4290 1066.760
## ORI_14617_14591 305.2730  611.086 361.075 526.264  748.077   63.6881  423.332
## ORI_14623_14594 183.8370  785.691 505.568 311.313  851.258  132.6590  366.166
## ORI_14629_14597 222.3240  771.717 350.230 236.403  742.556  134.2610  514.760
## ORI_14631_14598 272.9450  681.539 417.597 603.694  435.542  165.5430  585.680
## ORI_14633_14599 186.2930  838.323 704.987 310.470  598.795  215.3120  773.061
## ORI_14635_14600 181.0020  720.130 519.429 259.137  936.922  212.6410  504.715
## ORI_14639_14602 130.3170  722.572 377.173 344.481  507.126   93.7923  364.382
##                 [,5507]  [,5508] [,5509] [,5510] [,5511]  [,5512]  [,5513]
## ORI_10219_10218 511.632  581.886 500.689 2010.52 294.576 1200.270  787.038
## ORI_10735_10730 544.331  576.156 204.203 2064.63 207.860 1568.000  978.740
## ORI_14605_14585 484.514  770.823 276.859 2250.99 417.107 1491.770  778.525
## ORI_14607_14586 450.585  732.678 291.336 2623.17 233.933 1649.810 1004.150
## ORI_14609_14587 513.645  697.444 254.605 2830.31 297.877 2615.610 1240.180
## ORI_14617_14591 575.967  876.160 545.914 2424.98 235.614 1132.180  882.262
## ORI_14623_14594 284.362  996.824 267.803 1865.58 350.364 1481.730  676.894
## ORI_14629_14597 226.183  571.490 275.314 1812.60 184.696 1241.220  812.669
## ORI_14631_14598 470.737  714.120 249.220 2032.96 251.426 2074.210  998.409
```

```
## ORI_14633_14599 394.912  789.074 300.551 2253.49 458.344 2098.070  654.086
## ORI_14635_14600 321.291 1206.310 358.714 2487.90 323.926 1975.860  647.234
## ORI_14639_14602 407.222  892.410 365.980 1866.21 202.937  959.415  665.623
##                  [,5514]  [,5515] [,5516]  [,5517]  [,5518]  [,5519] [,5520]
## ORI_10219_10218 1882.830 1045.660 1340.26 3029.190 104.9530  999.815 2881.62
## ORI_10735_10730 1416.330 1178.430 2653.00 2722.110 255.6230 1011.150 2447.22
## ORI_14605_14585  961.547  960.114 1726.21 2768.440 235.9820  931.408 1911.24
## ORI_14607_14586 1291.320  826.520 3367.40 1775.970  77.0483  554.730 2513.51
## ORI_14609_14587 1401.250  801.834 2196.76 2430.130 152.4940  771.943 2053.01
## ORI_14617_14591 2029.000 1618.750 1077.09 3152.920 139.2070 1119.380 2918.42
## ORI_14623_14594 1520.870 1270.420 1132.22 2761.620 189.3330  750.310 1881.74
## ORI_14629_14597 1857.610  562.924 1827.78 1529.210 195.0150 1440.030 2968.84
## ORI_14631_14598 1895.730  795.681 2609.77 2254.460 168.0180  700.658 2134.99
## ORI_14633_14599 2138.870  929.950 1766.05 3577.610 161.9960  681.332 2063.29
## ORI_14635_14600 1561.400 1155.120 1599.34 2715.970 168.4210  701.223 2048.79
## ORI_14639_14602 1167.620 1133.210 1196.31 2448.070 389.1000  816.798 2156.13
##                   [,5521]  [,5522]   [,5523] [,5524]  [,5525] [,5526]  [,5527]
## ORI_10219_10218   39.0794  445.149  781.3290 383.500  348.536 189.284 2357.700
## ORI_10735_10730   39.1300 1084.580  184.6060 371.641  530.351 269.637 1199.560
## ORI_14605_14585  192.0600  487.145  329.5610 510.188  518.770 351.448 2631.210
## ORI_14607_14586   24.6827  299.121  373.8610 620.766  798.082 121.620 1897.120
## ORI_14609_14587 1098.0200  584.525  362.6580 439.046  508.527 213.587 2427.700
## ORI_14617_14591   24.6827  557.817  907.2720 271.313  490.601 101.498 2238.210
## ORI_14623_14594   24.6827  742.877  501.4300 305.783  344.122 190.941 2844.280
## ORI_14629_14597   68.4652  335.938  347.3280 427.993  450.075 142.598 2692.420
## ORI_14631_14598   24.6827  690.544  307.8490 446.004  595.700 244.170 2264.330
## ORI_14633_14599   67.8384  519.453  298.3740 236.805  325.914 268.862 2171.400
## ORI_14635_14600   24.6827  535.729  308.2110 246.331  492.030 217.050 2663.270
## ORI_14639_14602   24.6827  975.292  240.4370 258.160  384.921 205.377 2465.720
##                  [,5528] [,5529]  [,5530]  [,5531]  [,5532] [,5533] [,5534]
## ORI_10219_10218  867.091 270.892  445.821  840.782 237.6870 502.611 1725.95
## ORI_10735_10730 2098.760 172.046  632.552 1166.050 285.7320 476.241 1472.59
## ORI_14605_14585  617.968 223.865  604.775  797.470 227.9900 631.432 1620.69
## ORI_14607_14586 2161.850 241.147  588.142 1112.910 138.4380 420.128 1642.61
## ORI_14609_14587 2018.590 184.439  765.623 1224.670 222.8630 412.420 1775.74
## ORI_14617_14591 1112.080 225.421  372.195 1174.160 169.3030 469.592 1789.89
## ORI_14623_14594  659.453 253.981  366.282  806.817 178.7440 295.640 1588.29
## ORI_14629_14597 2256.670 200.481  556.265  996.608 136.7880 547.137 1462.40
## ORI_14631_14598 1659.760 170.949  587.846 1487.260 251.6610 488.064 1730.05
## ORI_14633_14599 1411.060 232.369  658.333 1055.520 284.1960 403.456 1380.16
## ORI_14635_14600 1133.770 222.183  429.598  806.140 284.6580 228.423 1508.84
## ORI_14639_14602 1518.640 269.599  561.762  451.330 267.3990 552.090 2191.31
##                 [,5535]  [,5536]  [,5537]  [,5538] [,5539]  [,5540]  [,5541]
## ORI_10219_10218 299.790  919.981 272.8920 179.9660 336.537  272.188 1093.100
## ORI_10735_10730 366.017  839.370 102.7570 132.2620 511.071  614.220 1786.040
## ORI_14605_14585 403.091  692.166 143.0610 180.4310 363.775  365.623 1709.930
## ORI_14607_14586 411.711  528.165 285.5960 492.0700 276.546  301.179 2134.940
## ORI_14609_14587 569.287  615.411 189.1080 393.3040 378.272  530.465 1491.300
## ORI_14617_14591 486.718 1089.740 215.8750 217.8270 269.331  373.309 1194.450
## ORI_14623_14594 366.541  712.793 394.8870 155.9560 203.304  668.914 1293.200
## ORI_14629_14597 297.211  820.574  75.6146  89.6220 392.894  417.306 2535.170
## ORI_14631_14598 540.064  844.889 137.5910 150.1140 433.691  409.890 1757.190
## ORI_14633_14599 398.635  536.171  92.1955 108.6790 375.700  705.538 1489.870
## ORI_14635_14600 361.240  611.280 164.5640 114.5450 254.912 1203.790 1447.910
```

```
## ORI_14639_14602 364.665  484.936  99.8733  72.9340 678.750  586.512 1049.560
##                 [,5542] [,5543]  [,5544] [,5545]  [,5546] [,5547]  [,5548]
## ORI_10219_10218 683.364 308.357 381.2190 632.555 125.4060 228.033  339.612
## ORI_10735_10730 737.806 443.086 507.6580 313.493 149.3150 311.863  653.990
## ORI_14605_14585 678.154 375.652 652.8180 339.124 192.2800 256.697  527.402
## ORI_14607_14586 595.208 433.873 616.9450 375.433  88.0873 157.569  492.004
## ORI_14609_14587 712.432 411.596 797.8820 442.846 160.1020 309.625  589.131
## ORI_14617_14591 799.548 284.654 283.5670 590.272 158.3280 294.949  551.304
## ORI_14623_14594 540.533 252.117 175.8750 270.522 150.8960 349.414  499.981
## ORI_14629_14597 462.933 312.721 300.3290 472.943 171.1940 220.517  519.162
## ORI_14631_14598 690.453 444.860 478.1060 345.983 110.6590 282.543  432.551
## ORI_14633_14599 709.097 342.810 162.9820 293.490 362.8550 372.288  536.934
## ORI_14635_14600 673.643 399.880 100.0480 313.395 187.9250 485.782  571.793
## ORI_14639_14602 630.442 284.756 155.4820 232.269 230.7170 309.621  819.811
##                 [,5549] [,5550]  [,5551] [,5552] [,5553]  [,5554] [,5555]
## ORI_10219_10218 302.833 176.606  961.903 409.487 274.789  64.8842 328.267
## ORI_10735_10730 388.093 252.431  859.742 383.052 469.861 345.4490 340.167
## ORI_14605_14585 349.761 306.893 1062.330 472.022 481.940 230.8080 535.640
## ORI_14607_14586 423.913 240.374  439.030 579.968 481.407 122.9520 390.054
## ORI_14609_14587 462.020 334.527 1051.010 506.661 592.004 336.8540 507.683
## ORI_14617_14591 332.587 325.053 1164.820 471.321 411.124 144.7380 483.151
## ORI_14623_14594 302.020 366.476  904.464 423.086 344.272 167.3230 474.514
## ORI_14629_14597 234.014 252.168  294.020 269.828 249.267 342.9920 361.065
## ORI_14631_14598 314.414 243.012  503.208 367.103 435.841 235.2650 519.413
## ORI_14633_14599 415.162 238.138 1516.230 478.518 546.665 386.9550 380.809
## ORI_14635_14600 459.921 393.606  858.895 583.771 466.794 159.8490 491.095
## ORI_14639_14602 372.399 201.952 1213.140 667.531 310.989  83.8510 329.238
##                   [,5556]   [,5557]  [,5558] [,5559] [,5560] [,5561]   [,5562]
## ORI_10219_10218  213.9520   86.2523 276.3980 511.936 288.773 351.262 2748.7500
## ORI_10735_10730  963.7760  310.0280 252.7360 360.182 444.954 328.285  174.0050
## ORI_14605_14585  471.8960   81.6613 365.6150 684.776 280.124 410.870  272.4290
## ORI_14607_14586  364.0760  633.9090 156.7520 385.767 290.501 244.682  807.1800
## ORI_14609_14587  388.0390  148.9090 277.4870 382.778 386.256 371.371  485.6210
## ORI_14617_14591  398.5600   43.9937 181.9060 412.208 261.174 262.740 2286.9400
## ORI_14623_14594  442.3200   60.1324 155.4130 333.929 264.861 436.601 1325.4900
## ORI_14629_14597  866.0060  455.0160 243.3770 509.162 285.313 237.488  136.8390
## ORI_14631_14598  460.7020  264.8650 246.5460 508.491 399.437 253.650  322.7410
## ORI_14633_14599 1166.9900   47.5984 135.2620 438.212 294.054 391.887  450.5660
## ORI_14635_14600  672.6060   39.7726 127.0900 435.387 564.097 460.048  875.6450
## ORI_14639_14602 1687.9400  352.5230 209.3940 535.343 368.186 301.727  319.6050
##                   [,5563] [,5564]  [,5565]  [,5566] [,5567] [,5568] [,5569]
## ORI_10219_10218  103.4000 274.299  465.447  557.298 337.669 236.519 181.916
## ORI_10735_10730   98.7129 234.175  395.538  593.966 287.151 279.799 295.533
## ORI_14605_14585  116.9090 343.128  457.094  431.747 357.045 327.814 165.210
## ORI_14607_14586  118.2550 505.148  619.828  725.373 509.147 303.057 236.719
## ORI_14609_14587  124.0850 275.966  560.866  635.915 691.202 465.203 216.622
## ORI_14617_14591   88.8861 266.474  787.255  289.465 574.619 238.363 225.728
## ORI_14623_14594  120.3570 186.442  579.098  406.590 360.695 260.967 119.519
## ORI_14629_14597  110.0060 366.661  318.007  292.266 257.083 254.299 130.839
## ORI_14631_14598  236.4250 288.536  519.591  389.867 460.256 375.722 174.154
## ORI_14633_14599  108.9150 254.057  364.424  788.691 232.225 273.969 200.791
## ORI_14635_14600   93.1367 234.226  549.675  551.329 273.900 290.848 135.682
## ORI_14639_14602  127.4770 248.978  385.338  483.808 261.674 268.890 176.542
##                  [,5570] [,5571]  [,5572]  [,5573]  [,5574] [,5575]   [,5576]
```

```
## ORI_10219_10218 379.6730 229.063  311.799  523.035 654.9300 166.663   84.8646
## ORI_10735_10730 278.7880 334.010  520.693  555.196 205.5000 391.331  356.2510
## ORI_14605_14585 259.8070 320.652  498.766  550.272 633.3340 256.874  167.7290
## ORI_14607_14586 221.7490 266.326  667.247  698.887 316.9550 340.877  274.9540
## ORI_14609_14587 292.4540 284.735  501.879 1078.970 323.7430 382.034  308.7690
## ORI_14617_14591 269.4830 153.128  371.682  765.648 293.4100 244.168  265.7790
## ORI_14623_14594 175.5730 181.361  252.247  401.272 308.1600 185.108  239.4520
## ORI_14629_14597 143.8090 459.908  421.447  888.926 272.9410 159.099  307.7190
## ORI_14631_14598 136.8050 321.086  486.588 1579.710 309.5430 494.128  231.1690
## ORI_14633_14599 229.8240 296.527  315.098  689.540 217.0090 296.951  356.7080
## ORI_14635_14600 186.8980 217.941  400.368  542.133 352.3330 298.688  450.9410
## ORI_14639_14602  60.0516 273.832  429.943  362.584 159.7210 317.783  294.4550
##                 [,5577]  [,5578]  [,5579] [,5580]  [,5581]  [,5582]  [,5583]
## ORI_10219_10218 413.570 132.8300 1484.440 285.606  501.605 1727.320  654.483
## ORI_10735_10730 361.880 171.5180 1177.700 288.624  687.645 1010.920  815.628
## ORI_14605_14585 276.971 204.1760 1587.750 360.453  633.440 1199.750  836.239
## ORI_14607_14586 278.198 465.7240 1152.350 343.199  497.209 1394.260  828.905
## ORI_14609_14587 439.361 205.7880 1728.270 254.845  572.197 1198.670  804.366
## ORI_14617_14591 550.986 105.8100 1988.830 321.145  852.949 2395.150  873.025
## ORI_14623_14594 283.531  84.0054 1592.100 491.449  816.381 1505.170  858.951
## ORI_14629_14597 433.913  80.8874 1040.500 343.489  752.210  747.844  887.034
## ORI_14631_14598 238.584 218.7780 1482.930 303.152  602.670 1112.750  828.857
## ORI_14633_14599 367.859 127.2560 1712.210 450.039  735.850 1123.870  783.262
## ORI_14635_14600 335.735  64.6194 1866.190 414.308  554.753 1099.390  854.564
## ORI_14639_14602 209.292  30.7974 1256.250 436.673  259.480 1191.150  798.618
##                 [,5584]  [,5585] [,5586]  [,5587] [,5588]  [,5589] [,5590]
## ORI_10219_10218 275.500  167.510 214.114  927.468 388.131 2954.270 414.085
## ORI_10735_10730 227.178  797.820 371.077  816.354 398.496 1010.430 372.809
## ORI_14605_14585 344.114  420.485 199.952  374.977 463.998 2428.110 423.937
## ORI_14607_14586 712.802  292.202 576.219  514.915 443.410 1598.120 355.741
## ORI_14609_14587 382.091  568.725 544.316  543.377 448.307 1741.810 319.233
## ORI_14617_14591 160.204  260.970 169.921  812.082 368.666 2656.750 286.366
## ORI_14623_14594 219.439  176.222 207.215  927.568 372.022 2231.940 302.689
## ORI_14629_14597 242.696  418.464 154.800  575.588 484.492 1649.650 445.069
## ORI_14631_14598 291.243  370.662 274.776  643.078 387.117 1659.890 336.385
## ORI_14633_14599 272.156  249.826 260.264  719.695 435.053 1720.410 472.598
## ORI_14635_14600 255.770  173.623 217.307  651.807 404.133 1585.560 410.947
## ORI_14639_14602 201.159  300.601 405.107  795.281 475.470  677.178 396.445
##                 [,5591] [,5592] [,5593]  [,5594]  [,5595]  [,5596] [,5597]
## ORI_10219_10218 623.181 385.173 558.111  939.263 1718.670  573.016 588.610
## ORI_10735_10730 287.617 472.516 186.159  471.573  972.080  326.687 425.852
## ORI_14605_14585 406.775 410.221 253.753  491.936  914.441  269.744 436.033
## ORI_14607_14586 309.035 322.670 246.911  707.190  946.978  329.851 441.625
## ORI_14609_14587 218.176 379.447 236.258  509.348 1016.910  411.771 632.032
## ORI_14617_14591 555.724 271.858 347.664  841.976 1232.920  740.995 546.633
## ORI_14623_14594 577.529 557.428 262.360  590.822 1359.580  336.023 237.050
## ORI_14629_14597 467.797 379.374 259.520  417.905 1191.150  310.462 546.643
## ORI_14631_14598 315.040 371.626 351.121  485.921  994.078  366.922 485.983
## ORI_14633_14599 379.290 518.770 241.089  451.732 1124.360  103.717 607.659
## ORI_14635_14600 403.086 501.239 262.964  423.524 1184.120  415.695 503.496
## ORI_14639_14602 364.738 480.972 163.166  501.180  754.359  162.350 507.887
##                   [,5598]  [,5599]  [,5600]  [,5601]  [,5602]  [,5603] [,5604]
## ORI_10219_10218  194.9950 119.7880 150.1430 118.5980 1079.400  806.392 310.825
## ORI_10735_10730  214.2210  76.1763  82.3334 326.1990  816.219 1125.680 518.554
```

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## ORI_14605_14585  228.3030 134.2130 126.5450 225.9620  759.610  776.767 445.609
## ORI_14607_14586  143.9670  77.9553  84.1519 100.9470  802.315  912.149 344.901
## ORI_14609_14587  453.5110  97.0657 133.5620 209.3230 1009.780  786.442 479.086
## ORI_14617_14591  108.9460 122.0770  64.6952 117.6100 1302.710 1195.260 236.066
## ORI_14623_14594  123.3960 135.0460  59.3058 708.4180  701.198  859.600 368.995
## ORI_14629_14597 1034.5700  53.6333 262.6610 204.6920  654.087  471.083 329.880
## ORI_14631_14598  230.6680  87.9921 219.4070 226.6330 1346.870  995.600 469.604
## ORI_14633_14599  136.9120 354.3310  24.6827 214.4500  596.049  921.406 415.572
## ORI_14635_14600  133.7670 202.4790  30.5199 713.3350  745.142  728.719 280.284
## ORI_14639_14602  115.4600  57.5772  32.3666 443.5810  632.427  874.289 394.762
##                 [,5605] [,5606]  [,5607]  [,5608] [,5609] [,5610] [,5611]
## ORI_10219_10218 373.454 668.223 1385.790 1940.070 604.720 351.791 452.008
## ORI_10735_10730 279.920 398.856 1174.780 1232.920 382.398 674.358 332.526
## ORI_14605_14585 119.665 658.459  957.218  953.850 544.206 520.358 489.154
## ORI_14607_14586 228.918 613.899  942.749 1493.380 551.191 429.094 177.397
## ORI_14609_14587 298.283 480.152 1084.240 1512.820 494.114 706.507 184.764
## ORI_14617_14591 346.472 747.013 1751.220 1247.690 777.957 353.708 202.529
## ORI_14623_14594 253.609 728.380 1248.700 1133.360 480.969 430.936 433.035
## ORI_14629_14597 256.431 352.068  966.369 2042.200 717.682 626.577 378.522
## ORI_14631_14598 218.381 467.033  964.489 1516.800 586.207 649.504 273.571
## ORI_14633_14599 168.886 468.004 1147.930  946.811 623.951 221.281 335.165
## ORI_14635_14600 173.726 634.437 1159.860  900.520 556.095 397.531 375.292
## ORI_14639_14602 195.071 719.993 1478.820  857.939 303.925 536.265 339.387
##                   [,5612]  [,5613] [,5614] [,5615] [,5616]   [,5617]  [,5618]
## ORI_10219_10218  731.1980  818.966 2554.42 306.286 389.079  874.3550  829.937
## ORI_10735_10730  798.9040  645.983 2860.78 368.126 379.506  254.0410  768.151
## ORI_14605_14585  448.6500  861.775 1500.96 369.311 327.495  678.6280  801.824
## ORI_14607_14586  215.0440  849.512 2969.37 295.696 287.776  198.4870  455.197
## ORI_14609_14587  469.3450  895.693 2088.22 240.969 254.524  330.2730  860.494
## ORI_14617_14591  672.7950 1088.930 1548.38 252.057 270.760  288.2130  187.778
## ORI_14623_14594  491.9220  913.895 1080.54 431.414 450.979  395.2380  833.540
## ORI_14629_14597   71.3605 1933.840 2318.04 304.366 331.206  131.8120  621.605
## ORI_14631_14598  775.3760 1101.960 2439.53 364.360 277.285  183.9320  559.076
## ORI_14633_14599  430.6230  786.330 2311.16 377.593 462.619  353.8480  938.746
## ORI_14635_14600  472.1040  635.774 1151.27 472.107 387.543  500.8450  658.241
## ORI_14639_14602  644.7590  515.354 1563.90 458.724 368.362  281.1930  852.195
##                   [,5619] [,5620] [,5621]  [,5622]  [,5623]  [,5624] [,5625]
## ORI_10219_10218   91.0633 446.820 246.895 126.2810 272.9820 155.6070 179.689
## ORI_10735_10730   83.6694 259.378 175.594 118.0900 234.4280 106.9460 211.192
## ORI_14605_14585  132.9830 636.406 213.519 205.9690 232.9310 103.8420 216.879
## ORI_14607_14586  642.0920 472.698 302.688 201.1740 233.7730 144.1660 164.276
## ORI_14609_14587 1760.1100 618.900 450.230 124.4440 124.5440 139.3350 206.113
## ORI_14617_14591   34.3414 384.285 231.776  65.2452 132.9390  69.3189 169.811
## ORI_14623_14594   93.3247 259.573 244.442 112.4680 272.8200 133.2540 225.801
## ORI_14629_14597   91.6068 212.725 896.017  98.4605 299.8090 168.1120 250.804
## ORI_14631_14598  306.8230 305.752 336.375 149.5330  85.1784 160.0830 187.357
## ORI_14633_14599  142.1610 384.617 227.722  95.3393 293.6210 156.4780 236.055
## ORI_14635_14600   97.9804 277.230 239.768  87.4832 212.3380 120.1250 248.885
## ORI_14639_14602  117.3330 180.836 172.535 111.0240 196.2150  87.3309 307.365
##                   [,5626]   [,5627]  [,5628] [,5629] [,5630] [,5631] [,5632]
## ORI_10219_10218  168.3220   50.3329  243.954 264.041 353.033 322.552 311.142
## ORI_10735_10730  755.9050  420.9000  686.049 288.629 395.323 279.273 388.137
## ORI_14605_14585  303.7770  151.0480  357.542 362.522 423.212 368.865 348.558
## ORI_14607_14586  448.9310 1038.6900 1255.000 407.310 251.561 305.169 454.075
```

```
## ORI_14609_14587  366.7650  526.5170  762.164 518.019 430.918 556.988 306.457
## ORI_14617_14591  161.1840   34.6593  102.094 249.476 287.703 581.167 163.349
## ORI_14623_14594  187.3980   41.5454  285.138 225.750 285.037 486.786 340.991
## ORI_14629_14597  956.7850   91.2338  197.828 251.492 364.931 509.531 348.896
## ORI_14631_14598  402.2080  454.4060  671.915 391.049 427.870 526.224 318.363
## ORI_14633_14599  233.8870  147.4600  137.841 322.545 403.710 412.500 308.182
## ORI_14635_14600  179.9680   78.3803  207.227 317.936 310.994 606.786 285.744
## ORI_14639_14602 2132.4100  106.3950  190.348 172.169 400.567 512.047 235.945
##                  [,5633] [,5634] [,5635]  [,5636]  [,5637]  [,5638]  [,5639]
## ORI_10219_10218 264.1050 353.649 196.044 1589.820  973.522 224.1700 233.4750
## ORI_10735_10730 117.2580 198.218 185.762 1349.420 1732.410 247.8630 140.4860
## ORI_14605_14585 263.6930 302.000 172.378 1361.880 1175.540 387.3980 206.1820
## ORI_14607_14586  93.7937 279.927 219.477 1656.200 1591.150 881.3800 175.4030
## ORI_14609_14587 140.0740 160.143 155.679  834.679 1181.450 293.6990 172.9400
## ORI_14617_14591 139.4970 268.702 120.069 1306.230  944.144  92.8251 225.4450
## ORI_14623_14594 149.1470 435.209 120.365  963.410 1093.200 168.0930 152.3800
## ORI_14629_14597  44.3913 399.413 137.701  472.450  878.375 189.5440 163.9860
## ORI_14631_14598  69.4313 243.325 178.463  895.414  875.046 346.7650 155.5440
## ORI_14633_14599 164.3370 378.239 170.444  614.288  895.887 176.7200  82.8467
## ORI_14635_14600 201.7890 369.500 130.802  692.362  760.120 125.7160 162.5170
## ORI_14639_14602  91.7365 312.196 114.970  632.816  627.418 107.4700  93.4003
##                 [,5640]  [,5641]  [,5642]  [,5643] [,5644]  [,5645]  [,5646]
## ORI_10219_10218 301.656  24.6827 2762.430 1316.270 501.251 1238.950 154.2340
## ORI_10735_10730 259.623  48.7008  968.048  946.972 454.383  985.390 133.3220
## ORI_14605_14585 330.380  24.6827 3309.160  944.624 419.645 1555.890 190.5670
## ORI_14607_14586 257.373  24.6827 1102.440 1131.690 456.484  628.783 221.7900
## ORI_14609_14587 203.812 195.0490 1266.950 1086.480 648.030 1038.180 207.7880
## ORI_14617_14591 200.887  24.6827 1682.040 1178.150 352.404 1584.780 125.4850
## ORI_14623_14594 430.216  24.6827 1571.940  798.217 386.958 1133.900 103.6510
## ORI_14629_14597 422.655  24.6827 1189.180 1257.800 466.465 1306.550 112.9980
## ORI_14631_14598 293.808  36.4745 1647.970 1200.040 459.709 1401.080 282.7670
## ORI_14633_14599 357.807  24.6827 1579.610 1417.540 425.772 1858.180 139.8640
## ORI_14635_14600 395.637  24.6827 1315.050 1127.280 188.692 1272.100 131.7940
## ORI_14639_14602 387.854  24.6827 1248.440  916.632 292.964 1253.200 100.7170
##                  [,5647] [,5648] [,5649]  [,5650]  [,5651]  [,5652]  [,5653]
## ORI_10219_10218 124.6340 440.863 453.294  493.991 446.6660 183.2580  288.611
## ORI_10735_10730 488.8290 504.811 453.159  589.058 226.8620 224.8410  780.289
## ORI_14605_14585 235.9570 171.825 451.860  634.546  35.7419 180.8670  296.662
## ORI_14607_14586 204.6370 363.249 658.124  519.960 196.3860 271.6440  571.216
## ORI_14609_14587 371.1120 304.865 424.625  401.039 136.5340 343.0170  494.703
## ORI_14617_14591 121.9990 370.279 720.266  389.689 408.1870  81.7233  166.588
## ORI_14623_14594 100.3780 462.207 605.128  774.146 143.6140 111.8900  164.543
## ORI_14629_14597 148.6100 520.280 254.987  714.105  73.5625 185.1660  421.126
## ORI_14631_14598 170.5310 420.428 493.544  455.708 133.2600 211.9210  556.634
## ORI_14633_14599 187.4500 420.573 516.617  657.084  72.3376 123.1190  259.063
## ORI_14635_14600 100.7060 431.521 441.434  596.817 117.0030 103.1300  208.618
## ORI_14639_14602 223.1270 620.210 175.869  598.765 129.9690 103.5410  261.298
##                  [,5654]  [,5655]   [,5656]   [,5657]  [,5658]   [,5659]
## ORI_10219_10218  218.880  611.048 5745.6000  244.6860  736.407  202.9320
## ORI_10735_10730  912.191 1804.620  566.7630 1237.5100 1153.350 1003.5500
## ORI_14605_14585  221.661 1134.240 5433.8000  237.2550  751.773  480.4650
## ORI_14607_14586  516.698  852.645 1712.0500  740.1770  775.013  885.3850
## ORI_14609_14587  695.256 1047.190 3044.1200  887.5900 1146.910 1248.5300
## ORI_14617_14591  169.917  495.563 3134.6100   81.8002  526.045  149.2610
```

```
## ORI_14623_14594  149.704  597.316 3513.9300  150.9610  356.603  215.7170
## ORI_14629_14597  901.362 1384.980 1645.2700  351.6380 1114.040  241.3280
## ORI_14631_14598  796.715 1578.800  939.1780  587.2020 1145.700  517.1760
## ORI_14633_14599  344.794  586.793 1796.2200  108.5430  308.703  278.7140
## ORI_14635_14600  275.048  762.570 3883.1800  106.6170  334.208  318.7960
## ORI_14639_14602  306.115 1314.870 1001.2700  579.6270  402.334  229.2210
##                  [,5660]   [,5661]  [,5662]   [,5663]  [,5664] [,5665] [,5666]
## ORI_10219_10218  564.678  523.6230  598.340   77.5470  196.408 228.825 310.489
## ORI_10735_10730  824.242  624.1730 2164.910  235.3470  352.228 482.163 244.886
## ORI_14605_14585  639.187  478.4990 1720.350  177.2350  203.922 265.651 213.437
## ORI_14607_14586  786.598  530.5740 5398.810  410.5490  290.871 136.556 440.520
## ORI_14609_14587  678.602 1254.1200 2302.690  201.1750  169.287 309.467 338.491
## ORI_14617_14591  516.851  601.1050  667.572   93.3354  192.181 159.199 436.529
## ORI_14623_14594  662.539  651.3040  545.600   96.8943  287.375 224.808 349.697
## ORI_14629_14597  625.488  649.0690  943.063  129.0620  255.299 281.449 177.257
## ORI_14631_14598  931.352  998.0420 1889.010  195.2070  546.530 233.997 404.485
## ORI_14633_14599  710.458  392.5980 1225.430  115.7940  213.400 217.445 233.999
## ORI_14635_14600  735.493  707.9390  737.613  190.5660  252.417 214.425 247.679
## ORI_14639_14602  705.160  212.3180  301.490  229.8490  336.570 212.258 228.259
##                   [,5667]  [,5668]  [,5669] [,5670]  [,5671]  [,5672]  [,5673]
## ORI_10219_10218  486.3480  577.462 304.3900 324.775  520.654 120.5220  993.217
## ORI_10735_10730 1187.8800 1491.080 180.1270 503.006  748.599 113.3010  996.297
## ORI_14605_14585  912.0150  954.283 320.2190 249.512  750.173  39.6459  919.009
## ORI_14607_14586  423.5030 1442.210  52.6963 816.392  772.831 346.3840  808.914
## ORI_14609_14587  480.8810 1140.600 169.5000 632.874  713.746 116.4980  906.365
## ORI_14617_14591  808.5040  543.734  51.0139 343.878  451.733  38.5447  861.508
## ORI_14623_14594  625.2530  432.924 125.4160 304.998  594.105  24.6827  972.740
## ORI_14629_14597  137.6810 1052.660 112.2000 167.337  619.022  68.9041 1101.510
## ORI_14631_14598  453.4640 1124.290  74.7514 457.754  595.154 132.7930  892.450
## ORI_14633_14599 1054.5000  547.958  99.0840 324.384  662.916  28.3986  973.363
## ORI_14635_14600  704.5820  361.874 131.2340 244.980  705.795  37.4342  984.851
## ORI_14639_14602  577.8950  926.575 121.9510 124.189  643.753 380.2570  857.653
##                 [,5674] [,5675]  [,5676]  [,5677]  [,5678] [,5679] [,5680]
## ORI_10219_10218 290.567 471.130  85.4648 3355.620 2477.710 284.342 533.385
## ORI_10735_10730 370.149 587.133 197.6520 3613.500 3100.180 362.443 609.711
## ORI_14605_14585 380.476 449.122 151.9720 4919.710 3628.890 374.687 449.885
## ORI_14607_14586 326.433 337.248 207.7420 3634.190 3198.650 371.719 525.954
## ORI_14609_14587 295.172 357.949 194.2150 5177.220 2367.160 391.438 736.433
## ORI_14617_14591 248.268 563.466 109.8590 3081.560 1813.910 418.383 539.643
## ORI_14623_14594 322.135 277.928 155.8880 4960.960 1397.360 306.354 513.979
## ORI_14629_14597 291.725 220.305 185.5020 5844.620 3014.610 432.068 568.950
## ORI_14631_14598 313.869 606.453 350.4180 5549.740 3148.590 540.867 778.380
## ORI_14633_14599 378.851 409.031 147.1890 6062.360 1094.410 329.443 566.224
## ORI_14635_14600 334.462 208.833 200.8050 2742.470 1296.610 507.005 741.171
## ORI_14639_14602 319.970 444.843 218.0900 2670.410 1121.030 411.023 676.803
##                 [,5681]  [,5682]  [,5683]  [,5684]  [,5685]  [,5686]  [,5687]
## ORI_10219_10218 361.766  477.054  626.251  566.845 177.8510 120.4360 217.8000
## ORI_10735_10730 515.184  859.524  849.076 1041.860 402.4070 235.6000 243.0640
## ORI_14605_14585 452.437  387.762  577.832  586.297 161.8860 181.2390 277.8200
## ORI_14607_14586 331.401  394.260  696.061  536.319 186.1040 165.4160 168.5590
## ORI_14609_14587 549.092  813.002  791.897  957.275 398.7800 206.0400 276.5330
## ORI_14617_14591 490.854  531.003  575.928  621.902 193.1830 126.5230 320.5140
## ORI_14623_14594 553.169  532.911  744.423  753.213 208.4040 154.9340 213.1810
## ORI_14629_14597 402.578  808.607  769.053 1049.150 327.4190 171.9930 206.6860
```

```
## ORI_14631_14598 427.129  874.046 1006.520 1185.700 359.0730 203.7630 209.0920
## ORI_14633_14599 570.501  576.067  675.582  687.169 309.3800 180.6770 144.3980
## ORI_14635_14600 547.636  487.238  614.850  749.008 255.3970 281.6640 248.5660
## ORI_14639_14602 417.816  465.207  539.487  661.733 309.1230 257.1570 199.7550
##                  [,5688]  [,5689]  [,5690]  [,5691]  [,5692] [,5693]  [,5694]
## ORI_10219_10218  501.028  172.093 134.9660 1358.130 1713.020 1375.00 172.2030
## ORI_10735_10730  389.134  570.491 142.3690 1289.550 1471.030 1918.36  46.6821
## ORI_14605_14585  368.439  389.911 164.4510  857.608  725.367 2258.60  30.0363
## ORI_14607_14586  490.653  424.113 114.4830 1156.200 1199.140 2617.01 109.1490
## ORI_14609_14587  458.573  528.641 137.8220 1161.440 1523.990 2332.07  73.3199
## ORI_14617_14591  437.260  307.233 143.3210 1935.930 2302.660 1137.18 164.9100
## ORI_14623_14594  364.368  216.221 166.9310 1291.440 1406.470 1278.00 101.0620
## ORI_14629_14597  380.854  487.540 205.7440 1423.790 1538.650 1603.28  54.8556
## ORI_14631_14598  518.026  480.356 256.7450  702.252 1329.220 2146.13  55.2721
## ORI_14633_14599  523.987  376.355 150.4740 1719.580  813.796 1410.71 189.3510
## ORI_14635_14600  341.245  368.434 148.4910  789.095 1214.780 1322.12  52.3331
## ORI_14639_14602  293.323  582.640 213.7380 1123.850 1018.200 1352.14  92.7217
##                 [,5695]  [,5696]  [,5697]  [,5698]   [,5699]  [,5700]  [,5701]
## ORI_10219_10218 226.385  514.753  688.876  708.518 1190.8500 185.4370  387.786
## ORI_10735_10730 281.878  553.760 1137.090  616.009   83.1325 212.6990 1497.050
## ORI_14605_14585 379.157  897.445  705.829  807.442 1130.7200 167.7170  529.074
## ORI_14607_14586 297.462  625.120 1299.990  913.546  299.3930 106.1640  751.733
## ORI_14609_14587 408.801  865.244 1386.200 1108.120  412.9130 116.1140  848.820
## ORI_14617_14591 266.218  468.976  583.500  806.145  515.4390 163.6890  461.049
## ORI_14623_14594 191.583  762.120  908.507  920.834  299.6650 178.1070  499.142
## ORI_14629_14597 290.476  627.806  449.378  733.856  158.5330 101.5450 1788.230
## ORI_14631_14598 399.674  594.076  773.477 1048.780  233.4140  96.7335 1798.950
## ORI_14633_14599 356.452  623.483  902.708  973.540  160.2150 212.2940  676.296
## ORI_14635_14600 229.121  812.175  857.561  861.322  402.2090 186.1930  430.786
## ORI_14639_14602 172.320  493.868  503.911  502.504  129.2750 224.8920 1065.940
##                  [,5702]  [,5703]  [,5704] [,5705]  [,5706] [,5707]  [,5708]
## ORI_10219_10218  527.285  960.095 113.7760 524.362  386.218 232.524 116.1270
## ORI_10735_10730  625.296  880.576 239.3680 310.555  753.937 327.098 429.8190
## ORI_14605_14585  660.901  822.591 219.7340 424.083  495.919 289.534 210.5330
## ORI_14607_14586  434.534  650.716 132.6920 399.569  324.051 268.174 478.5870
## ORI_14609_14587  507.949  999.384 223.6130 325.935  737.199 295.325 252.0530
## ORI_14617_14591  529.086  944.391 199.5470 316.643  301.538 214.761  72.9953
## ORI_14623_14594  525.778 1149.840 197.0780 451.467  373.861 287.393  81.0967
## ORI_14629_14597  545.895  829.151 242.3870 359.850  739.210 257.616 181.2230
## ORI_14631_14598  392.487  590.788 209.0990 359.745  660.129 278.172 333.6750
## ORI_14633_14599  690.631  956.182 220.0530 442.873  601.355 257.194 229.7100
## ORI_14635_14600  671.902 1152.640 182.8050 405.011  457.315 287.835  44.5260
## ORI_14639_14602  664.293  824.800 266.8640 323.603  505.724 304.945 128.2250
##                 [,5709]  [,5710] [,5711] [,5712]  [,5713] [,5714] [,5715]
## ORI_10219_10218 513.669 186.5890 249.167 228.791 143.9250 382.510 409.873
## ORI_10735_10730 795.475 275.6580 229.868 492.340 228.6280 386.480 374.906
## ORI_14605_14585 386.883 159.4900 261.803 283.523 163.7350 416.544 326.891
## ORI_14607_14586 376.822 158.7550 166.597 344.741 298.7730 288.929 414.337
## ORI_14609_14587 502.929 174.3930 134.764 347.755 203.1340 302.319 480.862
## ORI_14617_14591 485.007 133.8100 211.822 233.756 156.2120 266.771 242.759
## ORI_14623_14594 489.497 171.9600 231.233 268.574 216.2630 491.012 292.959
## ORI_14629_14597 544.240 195.7940 225.106 276.639 168.3580 363.526 312.515
## ORI_14631_14598 645.490 149.1240 183.373 336.019 153.9150 362.753 498.423
## ORI_14633_14599 502.040 299.9920 227.807 332.084 246.1980 391.259 284.228
```

```
## ORI_14635_14600 529.031 211.3370 281.927 317.455 201.4990 489.755 288.913
## ORI_14639_14602 363.631 285.2220 294.953 451.737 383.3970 418.794 440.458
##                  [,5716]  [,5717] [,5718]  [,5719]  [,5720]  [,5721]  [,5722]
## ORI_10219_10218 1126.770  806.440 336.755  88.6957  943.829  445.916  888.017
## ORI_10735_10730  936.042  752.774 381.246 198.9680 1087.810 1084.790 1305.510
## ORI_14605_14585 1072.090  646.974 373.466 160.2080 1031.760 1005.620 1137.290
## ORI_14607_14586 1125.570  737.055 450.176 171.2590 1014.580  627.478  854.366
## ORI_14609_14587  850.670  836.819 457.877 148.5800 1177.790  681.962 1179.860
## ORI_14617_14591  975.469  765.214 326.244 156.3270  995.702 1062.870  694.906
## ORI_14623_14594  773.442  689.069 406.031 145.9620  839.618  794.216  626.339
## ORI_14629_14597 1264.710  766.904 387.157 271.8100  905.598  370.557  984.847
## ORI_14631_14598 1056.520  763.499 550.709 369.7030 1189.610  904.781 1196.470
## ORI_14633_14599  857.912  863.244 435.262 188.2990 1031.900 1702.220 1330.170
## ORI_14635_14600  722.811  901.114 520.073 179.4280  838.412 1120.130 1137.640
## ORI_14639_14602  589.322  794.951 503.090 204.5870 1175.350 1090.240  860.000
##                  [,5723]  [,5724]  [,5725]  [,5726]  [,5727]  [,5728] [,5729]
## ORI_10219_10218  338.982 1145.500  612.141  477.799  431.914  952.810 183.510
## ORI_10735_10730  560.439  879.683 1702.700 1228.750  630.797 1151.030 162.213
## ORI_14605_14585  522.949 1165.970 1220.800  866.538  608.207  951.764 307.433
## ORI_14607_14586  504.802  678.230  921.344  758.150  692.972 1216.480 226.676
## ORI_14609_14587  557.211 1309.990 1519.930 1276.190  770.374  953.498 347.245
## ORI_14617_14591  453.284  875.416  820.023  647.803  729.832  481.451 275.375
## ORI_14623_14594  373.899  857.926  947.122  784.883  640.736  594.446 249.373
## ORI_14629_14597  767.011  439.193 1245.230 1318.370  410.835  701.247 316.839
## ORI_14631_14598  581.031  925.410 1344.920 1316.130  804.093 1432.580 357.412
## ORI_14633_14599  410.701  972.533 1173.940  840.283  716.712  630.462 318.094
## ORI_14635_14600  595.828  901.816 1185.750 1011.830  656.777  429.317 361.896
## ORI_14639_14602  493.921 1075.070 1337.390  961.727  530.510  707.963 313.041
##                 [,5730] [,5731] [,5732] [,5733]  [,5734]  [,5735]  [,5736]
## ORI_10219_10218 268.916 336.452 426.793 424.776  426.407  428.808  226.473
## ORI_10735_10730 230.442 417.064 576.900 396.906  794.002  656.831  237.219
## ORI_14605_14585 251.185 299.506 479.587 420.044  292.878  418.702  128.313
## ORI_14607_14586 229.087 292.096 484.193 369.885  365.745  497.157  310.800
## ORI_14609_14587 208.498 365.482 591.260 239.410  495.238  630.874  355.368
## ORI_14617_14591 306.058 329.126 624.612 244.792  299.098  852.379  327.121
## ORI_14623_14594 188.515 243.682 562.004 356.678  479.627  783.139  145.985
## ORI_14629_14597 289.114 382.765 586.325 432.503  477.405  597.893  517.695
## ORI_14631_14598 274.324 278.069 547.370 270.722  618.541  624.288  214.694
## ORI_14633_14599 268.466 308.977 417.460 374.212  549.018  503.545  451.075
## ORI_14635_14600 272.429 385.836 775.004 372.768  522.876  692.052  141.643
## ORI_14639_14602 221.858 416.730 846.147 390.207  406.074  631.911  163.921
##                 [,5737]  [,5738] [,5739] [,5740]  [,5741]  [,5742] [,5743]
## ORI_10219_10218 1439.16  162.196 269.632 272.401  603.076 100.0250 474.801
## ORI_10735_10730 2538.31  107.350 455.205 567.889  856.397 338.2700 290.934
## ORI_14605_14585 3464.51  162.823 304.277 405.560  629.639 225.4190 429.278
## ORI_14607_14586 1407.59  163.409 332.597 403.930  667.660 198.9530 401.511
## ORI_14609_14587 2804.47  148.444 464.826 516.426  763.828 261.8640 355.266
## ORI_14617_14591 2471.94  208.066 332.126 263.013  699.193 159.7940 383.161
## ORI_14623_14594 1793.09  210.089 179.993 256.932  485.651 152.5570 498.421
## ORI_14629_14597 3946.50  206.974 236.715 627.066  666.155 173.1120 377.870
## ORI_14631_14598 3169.89  144.016 404.884 563.913  711.214 364.8220 294.456
## ORI_14633_14599 1983.81  174.087 302.525 432.032  464.819 167.5940 484.586
## ORI_14635_14600 1491.32  141.437 207.564 489.777  519.412 111.1250 468.340
## ORI_14639_14602 1181.50  127.700 336.700 289.600  881.542  83.1863 352.727
```

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##                  [,5744]   [,5745] [,5746] [,5747]  [,5748]  [,5749] [,5750]
## ORI_10219_10218  493.695   76.1991 172.993 332.682  97.8275 228.2570 444.055
## ORI_10735_10730  761.788  248.8910 369.181 352.589 163.0950 236.7970 124.018
## ORI_14605_14585  696.447  463.1370 262.985 303.209  72.8106 253.9270 331.503
## ORI_14607_14586  789.141 3094.5300 190.983 341.500  52.3672 314.1990 154.457
## ORI_14609_14587 1090.300  673.2970 461.111 326.909 218.1200 260.3780 152.824
## ORI_14617_14591  520.661   74.0811 205.346 240.773  58.1301 139.2450 134.176
## ORI_14623_14594  649.857  111.8900 243.159 423.837  72.5305 238.2680 307.133
## ORI_14629_14597  708.644  110.7010 420.329 485.850 102.0150 374.3230 244.216
## ORI_14631_14598  843.902  942.0990 330.981 317.957 136.7400 246.9690 182.608
## ORI_14633_14599 1112.170   81.6477 314.524 488.063 125.5190 348.5820 308.526
## ORI_14635_14600  969.531   72.9582 291.635 342.354  94.9067 185.2600 429.335
## ORI_14639_14602  564.293  379.0950 287.333 363.598  83.4724 196.9890 292.247
##                  [,5751]  [,5752] [,5753] [,5754]  [,5755]  [,5756]  [,5757]
## ORI_10219_10218 1586.160  493.579 241.994 653.242  387.055  467.843 1123.790
## ORI_10735_10730 1627.600  340.960 324.941 622.789  381.208  792.546  994.016
## ORI_14605_14585 1464.800  696.440 348.851 716.181  424.150  509.327 1522.530
## ORI_14607_14586 1421.870  986.910 325.143 763.891 1065.160  526.112 1002.650
## ORI_14609_14587 1097.810  818.263 352.919 910.148  503.200  767.352 1371.600
## ORI_14617_14591 2102.630  398.918 333.467 954.478  312.476  480.702  825.626
## ORI_14623_14594 1638.200  355.962 242.344 655.166  279.808  481.044  888.845
## ORI_14629_14597  926.679  750.859 336.125 637.953  413.896  422.766  739.542
## ORI_14631_14598 1367.830  789.355 355.643 653.429  517.173  605.229 1245.300
## ORI_14633_14599 1913.850  384.124 276.720 868.836  435.228  718.911 1014.070
## ORI_14635_14600 1745.430  342.255 262.254 632.417  340.084  575.980  989.623
## ORI_14639_14602 1387.710  404.965 354.375 643.195  295.785  515.427  803.766
##                  [,5758]  [,5759] [,5760]  [,5761]  [,5762]  [,5763]  [,5764]
## ORI_10219_10218 2250.460 247.5050 337.680 200.1060  187.485 252.7110  92.0614
## ORI_10735_10730 1884.210  72.8553 514.710 140.4330  225.478 191.7750 190.7150
## ORI_14605_14585 2006.750 374.1110 576.332  90.8598  349.858 223.8470 174.1500
## ORI_14607_14586 2107.740 124.9500 576.110 106.9610  329.771 344.9000 162.6730
## ORI_14609_14587 2038.770 144.1080 825.309 207.8150  244.569 132.7930 285.5740
## ORI_14617_14591 2467.860 113.9610 672.566 298.8850  508.518  62.2239  93.5784
## ORI_14623_14594 2291.650  94.7250 588.953 107.4830  248.185  74.8161 158.2260
## ORI_14629_14597 2714.730 120.3550 759.946 197.7980  356.146  95.3351 148.0620
## ORI_14631_14598 2656.560  78.0711 781.194 343.3410  374.849 269.5090 167.0260
## ORI_14633_14599 2855.510  78.7630 648.250 265.4020  168.485 106.0100 533.6590
## ORI_14635_14600 1412.620 107.2630 714.460  98.3826  258.387  73.6721 289.6850
## ORI_14639_14602 1832.160 115.8940 495.012 208.9520  189.078  94.4272 128.9870
##                  [,5765]  [,5766]  [,5767]  [,5768]  [,5769]  [,5770] [,5771]
## ORI_10219_10218 199.3490 267.8550  599.528  6684.67 1018.700  148.423 236.712
## ORI_10735_10730  88.1618 199.6840  620.550  8665.69 1452.850  331.029 279.172
## ORI_14605_14585 141.7900  55.6724  784.805  6717.17 2121.170  359.840 245.231
## ORI_14607_14586 169.3220 149.2730  899.289  6907.41 2754.020  843.330 301.194
## ORI_14609_14587 163.7070 181.2690  888.295  7469.85 2196.520  543.896 327.075
## ORI_14617_14591 247.2180 318.2140  647.531  6068.42 1448.920  151.845 301.025
## ORI_14623_14594 234.4740 306.3630  578.154  6723.05 1166.060  279.332 252.223
## ORI_14629_14597 135.2690 172.3440  910.303  7193.36 2301.920  372.905 246.743
## ORI_14631_14598 148.7520 112.6300 1113.590  7436.10 2730.540  440.389 353.991
## ORI_14633_14599 155.2180 186.4870  617.678  7439.70 1514.060  369.369 300.742
## ORI_14635_14600 154.0980 160.9680  532.466  6068.80 1498.890  217.288 384.178
## ORI_14639_14602 156.5360 138.7990  523.166  6970.33 1425.890  190.823 207.414
##                 [,5772]  [,5773] [,5774]  [,5775] [,5776] [,5777] [,5778]
## ORI_10219_10218 261.810  448.839 668.668 262.3010 370.437 501.330 110.274
```

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## ORI_10735_10730 363.161  400.667 361.563  65.9571 408.878 344.436 326.134
## ORI_14605_14585 274.340  370.151 516.546 110.7860 387.196 625.575 225.326
## ORI_14607_14586 239.492  511.243 235.378 101.2910 731.336 478.543 228.062
## ORI_14609_14587 269.065  532.551 249.443 294.0600 568.329 546.413 238.854
## ORI_14617_14591 203.851  344.592 273.503 343.5610 704.274 744.953 154.877
## ORI_14623_14594 205.946  393.058 488.875 130.9510 403.738 515.953 214.491
## ORI_14629_14597 303.069  314.901 293.316 272.3830 466.203 505.856 320.982
## ORI_14631_14598 266.505  535.088 400.754 110.3850 453.304 410.276 266.203
## ORI_14633_14599 304.952 1306.160 419.590  66.2346 499.731 584.884 190.846
## ORI_14635_14600 326.239  273.916 480.363 136.7890 417.682 739.689 360.444
## ORI_14639_14602 235.834  307.517 349.877  76.2613 647.124 572.841 565.731
##                 [,5779] [,5780]  [,5781]  [,5782] [,5783] [,5784]  [,5785]
## ORI_10219_10218 706.301 232.639 414.0330 1148.490 259.838 336.044  519.320
## ORI_10735_10730 639.550 501.963 108.3520  361.285 342.002 493.620  591.925
## ORI_14605_14585 644.738 347.016 281.0180  188.811 320.220 348.992  514.191
## ORI_14607_14586 837.441 443.188 286.4160  653.827 279.202 524.931  663.152
## ORI_14609_14587 603.696 395.976 179.0440  458.461 333.422 385.069  947.735
## ORI_14617_14591 558.127 340.351 436.8690  429.556 228.751 206.974  573.772
## ORI_14623_14594 778.949 306.566 224.3180  477.341 328.631 251.128  415.864
## ORI_14629_14597 456.198 416.580  94.6460  414.134 250.533 422.202  525.186
## ORI_14631_14598 625.114 506.392  90.4856  451.900 334.929 447.745  794.635
## ORI_14633_14599 692.291 468.887 133.6420  217.801 286.027 304.411  753.032
## ORI_14635_14600 587.959 786.420 182.9090  233.456 360.310 373.867  834.025
## ORI_14639_14602 496.901 535.397 132.6910  196.943 281.933 437.818  360.748
##                  [,5786] [,5787]  [,5788] [,5789] [,5790]  [,5791]  [,5792]
## ORI_10219_10218  803.165 326.723  818.218 243.140 376.277  512.487 919.5840
## ORI_10735_10730 1163.370 454.647  956.149 479.468 355.273  713.521  38.4667
## ORI_14605_14585 1189.550 479.004  826.322 218.594 331.745  550.906 357.6220
## ORI_14607_14586  904.904 450.950 1199.780 329.627 373.389  845.324 239.5150
## ORI_14609_14587 1287.480 365.571 1130.940 359.421 409.228  590.564 203.1220
## ORI_14617_14591 1386.910 415.303 1266.650 329.117 376.390  421.319 613.7880
## ORI_14623_14594  948.983 346.991  772.267 218.128 381.891  393.538 491.8860
## ORI_14629_14597 2620.200 412.337  665.397 422.798 230.142  478.471  77.6510
## ORI_14631_14598 1392.660 242.649 1072.420 265.367 307.324  493.813  91.0375
## ORI_14633_14599 1316.410 657.020  997.624 367.258 343.997  488.049 149.3400
## ORI_14635_14600 1347.930 335.987  903.333 285.419 301.793  527.906 299.6880
## ORI_14639_14602 1506.480 284.610  661.651 441.078 243.211  466.031 132.6920
##                   [,5793] [,5794] [,5795] [,5796] [,5797] [,5798]  [,5799]
## ORI_10219_10218  683.4520 213.483 343.174 588.803 528.857 487.652  906.671
## ORI_10735_10730  101.1870 402.661 567.774 445.005 647.366 201.349 1146.350
## ORI_14605_14585  341.0140 200.438 425.624 421.497 565.950 414.741  864.614
## ORI_14607_14586  472.1180 299.635 631.967 506.907 424.038 225.424  961.019
## ORI_14609_14587  168.7140 274.713 576.798 443.513 788.927 356.880  999.472
## ORI_14617_14591  675.4180 144.558 795.935 585.624 815.141 305.645 1023.850
## ORI_14623_14594  527.9950 156.158 591.287 428.282 532.309 416.823  681.055
## ORI_14629_14597   24.6827 316.033 691.084 224.224 774.778 522.839 1086.050
## ORI_14631_14598  215.1790 277.845 876.734 399.322 801.546 345.180  924.841
## ORI_14633_14599  249.4220 308.043 273.948 548.294 673.723 279.096  972.458
## ORI_14635_14600  377.6270 220.559 464.140 337.174 531.569 211.428  923.482
## ORI_14639_14602  106.0620 196.267 222.766 395.702 332.856 215.647  865.337
##                 [,5800]  [,5801] [,5802] [,5803]  [,5804]  [,5805]  [,5806]
## ORI_10219_10218 2014.03 1542.700 421.261 779.716 1700.410 210.9360 1428.030
## ORI_10735_10730 2057.83 1545.090 313.898 760.322  913.718 143.5710 1417.220
## ORI_14605_14585 2235.89  998.004 375.632 664.550  892.749 202.6120  698.641
```

```
## ORI_14607_14586 1769.63 1321.310 575.496 705.034  561.107 367.0560 1045.570
## ORI_14609_14587 2563.19  783.822 311.875 648.846 1180.390 169.4100 1016.320
## ORI_14617_14591 2243.25 1047.970 259.911 520.187 1399.770 340.8290 1261.260
## ORI_14623_14594 1971.14 1149.350 388.345 482.381  697.163 163.9870  865.465
## ORI_14629_14597 1915.64  667.804 579.141 480.028  472.591 216.5130  930.299
## ORI_14631_14598 2518.92 1009.010 416.183 781.447  704.506 143.3600  963.455
## ORI_14633_14599 2091.92 1282.790 411.569 397.713 1023.230 155.0350  725.579
## ORI_14635_14600 1893.47 1185.400 402.124 624.378  684.845 155.5010  604.026
## ORI_14639_14602 1607.45  889.668 346.667 624.099  461.813 194.3520  809.223
##                  [,5807] [,5808] [,5809]  [,5810] [,5811]  [,5812]  [,5813]
## ORI_10219_10218  527.996 586.432 623.973  658.164 479.972 2041.450 1732.060
## ORI_10735_10730  363.035 465.505 710.405  468.864 600.787  686.935  585.703
## ORI_14605_14585  649.250 526.495 548.321  507.661 414.540  523.219  456.161
## ORI_14607_14586  503.047 463.706 599.501  407.639 496.868 1082.540 1262.220
## ORI_14609_14587  453.082 434.223 800.387  508.846 682.919  929.521  673.063
## ORI_14617_14591  690.764 741.812 900.233  503.680 535.855 1769.850 2056.550
## ORI_14623_14594  511.012 466.744 543.557  556.014 441.487 1234.470 1056.440
## ORI_14629_14597  534.627 357.441 585.986  307.326 412.577  416.852  581.488
## ORI_14631_14598  400.076 453.572 442.065  486.778 419.862  507.416  447.663
## ORI_14633_14599  646.849 381.218 953.481  549.231 658.290 1074.010  872.211
## ORI_14635_14600  516.531 498.356 634.543  533.519 420.961 1112.310  842.544
## ORI_14639_14602  260.033 446.420 665.097  548.641 473.340  634.811  545.767
##                 [,5814]  [,5815] [,5816] [,5817]  [,5818]  [,5819] [,5820]
## ORI_10219_10218 217.952  238.698 147.119 431.820 217.3120 1455.620 268.476
## ORI_10735_10730 655.593  569.476 243.046 708.243 332.0500 1356.180 251.285
## ORI_14605_14585 373.987  588.083 189.139 465.313 212.2260 1956.570 278.342
## ORI_14607_14586 503.557  489.611 181.042 590.354 178.2650 1969.940 338.754
## ORI_14609_14587 430.225  652.212 193.460 646.007 193.4750 2100.280 266.943
## ORI_14617_14591 354.007  327.978 181.269 407.846 199.2340 1466.880 216.331
## ORI_14623_14594 265.595  460.479 168.110 301.406 184.6660 1045.060 346.627
## ORI_14629_14597 408.690  571.744 151.422 440.101 213.2570 1940.370 364.749
## ORI_14631_14598 526.340  538.433 190.537 606.471 235.1590 1956.120 363.613
## ORI_14633_14599 259.739  499.928 170.960 527.804 156.0100 1985.110 429.148
## ORI_14635_14600 581.053  512.006 204.251 555.142 246.5700 1483.400 358.867
## ORI_14639_14602 518.901  347.146 195.212 625.781 296.6290  766.961 277.179
##                 [,5821] [,5822]  [,5823]  [,5824]  [,5825]   [,5826] [,5827]
## ORI_10219_10218 236.503 642.512 123.7350 217.2780  405.078   88.5390 214.418
## ORI_10735_10730 294.351 420.350 172.7150 407.1760  764.860  522.7720 254.846
## ORI_14605_14585 260.168 401.766 121.9240 267.4740  503.854  400.3820 214.512
## ORI_14607_14586 327.838 497.918  50.1480 195.4330 1182.410   99.3634 135.009
## ORI_14609_14587 304.092 534.482 116.2120 115.0820 1008.140  222.3400 230.964
## ORI_14617_14591 373.699 675.831  72.4429 216.7420  270.226  110.4490 121.323
## ORI_14623_14594 246.611 469.730  52.2743 394.1420  163.880  366.3550 148.454
## ORI_14629_14597 213.073 234.248  66.4977 309.8190  408.035  240.6440 173.303
## ORI_14631_14598 245.070 408.253  65.5336 235.3840  430.709  338.5710 186.551
## ORI_14633_14599 464.057 243.072  86.6050 273.5980  507.349  232.4570 200.775
## ORI_14635_14600 334.165 287.900  36.5854 221.0410  297.233  364.7310 243.165
## ORI_14639_14602 332.021 225.485 684.1670 294.3840  402.333  807.5900 224.552
##                  [,5828] [,5829]  [,5830] [,5831]  [,5832] [,5833]  [,5834]
## ORI_10219_10218  983.511 466.330  685.558 369.540 2922.780 428.499 1084.810
## ORI_10735_10730 1692.580 355.884  294.137 323.977 2958.190 400.554 1696.140
## ORI_14605_14585 1416.270 390.448  279.301 466.226 3712.980 316.367 1604.580
## ORI_14607_14586 1369.030 318.399  463.715 405.008 3120.550 206.580 1725.440
## ORI_14609_14587 1948.320 223.164  250.920 340.006 3693.450 335.088 1494.270
```

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## ORI_14617_14591 1102.220 291.554  780.292 360.713 2912.040 347.706 1470.690
## ORI_14623_14594 1501.380 469.832  442.703 406.157 1752.660 231.290 1463.930
## ORI_14629_14597 1899.820 293.540  230.240 476.543 3840.210 261.472 1941.930
## ORI_14631_14598 1732.830 398.054  261.581 457.355 3182.080 433.208 1811.820
## ORI_14633_14599 2055.960 502.352  317.432 407.370  861.698 496.680 1407.570
## ORI_14635_14600 1333.480 453.760  425.914 393.209 1226.990 308.274 1407.790
## ORI_14639_14602  845.257 445.841  273.793 424.406 1253.100 389.073 1418.570
##                  [,5835]  [,5836]  [,5837]  [,5838]   [,5839]  [,5840]  [,5841]
## ORI_10219_10218  268.621 1850.400  564.298 1044.760 1356.0600 2133.860  562.444
## ORI_10735_10730 1143.190 2299.460  682.049 1229.440  787.0580 1945.330  949.732
## ORI_14605_14585  529.249 1867.100  624.112 1051.990  595.0750 1992.540  829.330
## ORI_14607_14586  865.826 1377.710  532.147  894.234   92.6707 4123.400  811.553
## ORI_14609_14587  732.977 2376.620  691.160  994.898  224.3250 3452.390  838.174
## ORI_14617_14591  368.322 1117.440  965.117  521.694  816.4870 1275.010  530.202
## ORI_14623_14594  323.285  855.133  641.453  944.369  625.9360 1254.540  711.326
## ORI_14629_14597  879.891 1520.630  454.667  866.717  126.4250 1154.040  519.731
## ORI_14631_14598 1026.820 1951.300  841.009 1192.240  540.0240 2856.740  706.673
## ORI_14633_14599  594.644 1006.250  752.938 1326.440 1605.7900 1398.180  829.761
## ORI_14635_14600  392.122 1140.280  619.633  897.990 1015.6600 2411.720  679.336
## ORI_14639_14602  755.548 1041.690  824.258  765.180 2064.2200  843.750  622.282
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## ORI_10219_10218 489.464 1038.480 3752.630 275.567 575.569 1890.73 1682.1500
## ORI_10735_10730 456.883 1241.720 1243.970 221.048 831.411 1385.19  364.4450
## ORI_14605_14585 357.455  795.064 1897.570 374.189 579.010 1802.76  134.6880
## ORI_14607_14586 361.375 1564.530 1938.830 317.353 556.991 1833.85  466.8510
## ORI_14609_14587 443.897 1702.800 1942.850 259.020 742.535 2035.20  229.3650
## ORI_14617_14591 238.257 1439.470 3567.890 254.691 595.813 2037.79 1234.0700
## ORI_14623_14594 337.922  954.119 2135.170 478.294 541.421 1441.08  565.0600
## ORI_14629_14597 511.318 1233.070  882.976 372.438 630.445 2120.21  228.1220
## ORI_14631_14598 312.802 1304.240 2172.230 294.150 741.860 1663.91  284.3810
## ORI_14633_14599 447.687 1224.420 2687.640 368.145 741.316 1771.36  240.7920
## ORI_14635_14600 423.359  972.709 2138.620 477.379 575.216 1455.97  345.5740
## ORI_14639_14602 409.439 1213.150  870.640 381.095 436.896 1596.60  294.6450
##                 [,5849]  [,5850]  [,5851]   [,5852]  [,5853]  [,5854] [,5855]
## ORI_10219_10218 190.669 480.0400 1332.110  856.4680  996.862 151.0660 325.854
## ORI_10735_10730 269.388 294.7840 1361.060  144.2490  397.455 124.5690 192.197
## ORI_14605_14585 263.587 199.7720 1271.280  219.5610  618.312 231.5640 249.229
## ORI_14607_14586 233.867 273.0310 1419.090  901.7650  932.305 307.4440 386.659
## ORI_14609_14587 191.785 370.6660 1390.720  248.0690  910.442 135.7030 208.767
## ORI_14617_14591 109.696 589.8490 1195.860 1719.4400  966.330 186.4730 111.723
## ORI_14623_14594 335.287 266.2320 1189.760  854.6050  964.048 249.3970 271.963
## ORI_14629_14597 362.396 112.2270 1238.470 2756.5300 2270.490 198.5380 196.360
## ORI_14631_14598 330.854 352.9140 1487.280  230.4050  603.427 211.7160 201.057
## ORI_14633_14599 292.969 178.2450  962.989  431.4160  653.939 118.4100 305.958
## ORI_14635_14600 344.407 270.6360  810.500  475.9270  471.213 156.9840 254.727
## ORI_14639_14602 368.363 249.8790 1756.720  410.7990  299.176 203.0040 200.619
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## ORI_10219_10218 345.959 244.923 619.538 186.877 145.933 338.775 1917.59
## ORI_10735_10730 482.719 447.151 364.313 602.156 328.635 180.199 2312.07
## ORI_14605_14585 294.582 256.497 329.752 242.667 281.384 313.260 1998.87
## ORI_14607_14586 342.756 241.938 639.509 204.523 227.856 159.226 1537.46
## ORI_14609_14587 385.552 308.358 847.945 403.061 445.330 179.886 1939.26
## ORI_14617_14591 490.398 188.954 303.438 256.396 271.158 136.147 1238.86
## ORI_14623_14594 286.116 203.353 584.034 288.245 190.824 353.223 1317.41
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## ORI_14629_14597 463.233 280.492 436.520 442.190 234.994 220.272 1785.90
## ORI_14631_14598 378.696 263.687 650.511 244.934 439.089 109.421 1887.21
## ORI_14633_14599 269.916 567.222 384.517 391.148 344.971 156.269 1234.75
## ORI_14635_14600 289.219 228.722 275.379 342.556 355.536 316.665 1668.08
## ORI_14639_14602 290.588 346.236 157.053 304.952 235.242 158.488 1728.11
##                   [,5863]  [,5864] [,5865]  [,5866] [,5867] [,5868]  [,5869]
## ORI_10219_10218 1522.1800 1039.360 217.748  855.963 244.025 206.682  500.143
## ORI_10735_10730  130.2770 1116.570 334.649  777.189 343.516 517.978  607.268
## ORI_14605_14585  484.6840  964.264 247.554 1457.790 328.794 377.058  623.690
## ORI_14607_14586  525.9160 1063.850 189.596  944.525 229.232 215.260  603.707
## ORI_14609_14587  256.2780  829.621 333.359 1358.800 409.770 485.777  645.594
## ORI_14617_14591 1502.7800  689.786 189.997 1370.940 259.351 348.787  691.227
## ORI_14623_14594  885.4980  949.369 197.544 1236.420 296.105 355.123  770.138
## ORI_14629_14597  122.2850  904.080 170.227 1008.080 250.637 493.335  409.399
## ORI_14631_14598  325.4630 1007.620 244.284 1298.390 363.399 426.631  586.003
## ORI_14633_14599  280.8660 1068.330 628.608  840.838 440.097 277.291 1083.020
## ORI_14635_14600  501.9010 1006.440 487.483 1029.220 348.973 366.087  916.002
## ORI_14639_14602  318.7820  846.309 409.845  532.366 429.068 358.361  652.019
##                  [,5870] [,5871]  [,5872] [,5873] [,5874] [,5875]  [,5876]
## ORI_10219_10218 1097.430 180.197 155.7250 158.667 3386.20 530.514 313.1980
## ORI_10735_10730  696.222 238.454 202.0150 271.205 1326.64 454.951  78.9659
## ORI_14605_14585 1144.050 305.960 212.0710 239.503 2789.40 405.954 153.9060
## ORI_14607_14586  729.357 291.353 113.9320 104.053 2943.54 323.520 289.7230
## ORI_14609_14587  949.121 218.002 110.8880 398.110 3056.91 343.074 141.6290
## ORI_14617_14591  778.660 221.352 121.6060 195.758 3528.85 517.078 143.1320
## ORI_14623_14594 1036.840 234.107 187.6410 157.791 2657.50 341.485 198.4940
## ORI_14629_14597 1053.550 177.097 146.4300 205.165 2779.00 319.201 227.3710
## ORI_14631_14598  757.819 383.462 193.0840 388.327 2612.58 499.992 157.5540
## ORI_14633_14599 1075.060 355.403 243.2490 368.389 1545.95 393.997 210.6190
## ORI_14635_14600 1400.530 239.363 198.3440 206.418 2112.63 249.013 163.0940
## ORI_14639_14602  741.746 334.263 232.8960 171.366 1175.03 159.518 111.3380
##                  [,5877]  [,5878]  [,5879]  [,5880]  [,5881] [,5882]  [,5883]
## ORI_10219_10218 1348.380 268.0390  317.465 1303.640 742.7990 348.006  62.8526
## ORI_10735_10730  618.732 164.3630  861.912 1528.290 148.5930 141.480 713.6920
## ORI_14605_14585 1149.610 201.5540  599.017 1114.280 524.4500 216.113  89.8491
## ORI_14607_14586 1445.000 579.2370  746.173 1501.270 755.6810 160.296  47.3214
## ORI_14609_14587 1351.900 386.2480  743.756 1340.760 687.5240 155.778 378.7950
## ORI_14617_14591 1136.660 411.6650  431.533 1377.470 620.9210 162.669 173.0240
## ORI_14623_14594 1551.270 520.8210  372.198 1277.820 638.7640 307.744  62.5949
## ORI_14629_14597 1576.670 391.5480  854.900 1238.570 317.4120 260.939  38.2311
## ORI_14631_14598 1388.450 323.6220 1136.960 1273.350 376.3410 205.070  91.3857
## ORI_14633_14599 1484.770 465.4710  626.057 1183.610 312.8020 259.207  68.4423
## ORI_14635_14600 1397.640 415.3710  526.122 1334.200 283.7360 293.318  31.8565
## ORI_14639_14602 1047.290 279.6930 1116.110 1194.000 215.1260 261.893 196.7800
##                  [,5884]  [,5885] [,5886]  [,5887] [,5888] [,5889]  [,5890]
## ORI_10219_10218  162.638 1285.600 625.816 1082.740 152.058 410.029 239.1010
## ORI_10735_10730 1079.400  569.304 690.521  754.624 215.651 536.719 337.0480
## ORI_14605_14585  364.981  722.233 557.074  515.216 211.093 459.980 219.5540
## ORI_14607_14586  813.296  775.112 645.273  726.443 171.946 308.200 260.9820
## ORI_14609_14587  861.193  463.463 787.159  814.316 265.615 497.803 409.7910
## ORI_14617_14591  137.798 1233.770 506.502 1115.910 145.892 355.024 181.8500
## ORI_14623_14594  118.711 1189.280 366.860 1028.490 178.928 402.971 195.3090
## ORI_14629_14597 1145.930  573.852 526.586  685.089 172.551 354.608 213.6710
## ORI_14631_14598  591.842  515.130 587.459  982.488 261.863 567.368 419.1560
```

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## ORI_14633_14599  595.258  708.672 767.630  919.331 205.317 320.819 247.4070
## ORI_14635_14600  204.609  831.022 385.649 1439.350 180.571 422.885 376.0710
## ORI_14639_14602  234.285  421.779 414.389  923.368 157.685 288.074 304.5000
##                 [,5891]  [,5892]  [,5893]  [,5894] [,5895] [,5896] [,5897]
## ORI_10219_10218 443.964  731.759  740.206 286.5280 425.238 222.631 316.997
## ORI_10735_10730 531.992 1084.470 1089.570 160.9410 583.462 303.863 400.214
## ORI_14605_14585 426.268 1021.200  950.182 142.8290 594.677 319.498 441.026
## ORI_14607_14586 476.376  974.629  756.385 118.6350 496.184 259.245 335.075
## ORI_14609_14587 660.082 1093.710 1356.820 250.6540 602.370 309.194 278.464
## ORI_14617_14591 595.007 1265.670  681.451 179.1760 495.244 360.871 343.439
## ORI_14623_14594 424.975  896.220  950.833  59.1285 446.910 256.265 560.811
## ORI_14629_14597 358.807  937.029  593.067 113.6770 595.469 314.451 390.713
## ORI_14631_14598 668.751 1095.980 1098.530 163.5920 499.352 297.416 414.308
## ORI_14633_14599 526.484  876.535 1380.470  34.0500 640.863 326.998 518.267
## ORI_14635_14600 713.675  980.397 1199.220  87.4567 500.561 281.880 610.604
## ORI_14639_14602 712.879 1716.660  615.758 173.8230 941.960 163.246 487.358
##                  [,5898] [,5899] [,5900]  [,5901] [,5902]   [,5903] [,5904]
## ORI_10219_10218 504.5390 426.379 3798.59  417.794 277.425   61.6082 4332.38
## ORI_10735_10730 137.1860 501.541 3035.62  699.919 509.898   35.7660 4530.35
## ORI_14605_14585 433.5070 329.668 3058.91  446.065 317.334   44.6437 5111.87
## ORI_14607_14586 186.7470 423.569 2925.13  530.057 353.658 1245.5600 6476.42
## ORI_14609_14587 401.1350 327.377 3139.16  638.280 342.071   34.6685 4718.87
## ORI_14617_14591 262.5590 352.275 2642.77  532.955 347.172   24.6827 4028.17
## ORI_14623_14594 174.7660 195.604 2193.48  451.677 236.855   54.1962 2801.13
## ORI_14629_14597 130.4700 478.413 3134.76  821.209 295.020   41.4848 4219.70
## ORI_14631_14598 130.2310 240.077 3539.40  605.568 337.911   70.8987 4261.84
## ORI_14633_14599  94.4550 156.338 2173.75  667.495 399.823   42.9279 4982.16
## ORI_14635_14600 270.7210 246.162 1740.14  512.783 476.791   42.3161 3182.36
## ORI_14639_14602 154.9730 452.739 1681.94  625.225 342.226   50.1270 3165.64
##                  [,5905]  [,5906] [,5907] [,5908]  [,5909]  [,5910] [,5911]
## ORI_10219_10218  553.716  365.667 383.395 351.764 195.5060  86.6536 833.922
## ORI_10735_10730  829.051  656.489 268.057 284.718 247.2240 116.5080 701.375
## ORI_14605_14585  662.274  777.799 346.224 274.769 294.8390 149.2010 882.363
## ORI_14607_14586  544.535  434.210 352.561 406.169 817.5830 462.5460 455.584
## ORI_14609_14587  599.903  645.760 229.341 377.877 281.9550 253.5830 731.450
## ORI_14617_14591  502.456  973.024 181.351 290.648 124.8430  66.4643 448.269
## ORI_14623_14594  473.976  790.439 380.668 219.379 132.0870  67.7988 445.110
## ORI_14629_14597  658.585  535.618 359.320 224.017 183.4980  98.3227 675.266
## ORI_14631_14598  533.772  484.039 269.606 416.748 309.1520 121.8910 347.144
## ORI_14633_14599  537.199 1349.110 437.492 300.039 206.1400  58.7737 501.692
## ORI_14635_14600  610.095  692.941 339.016 346.121 129.7400  65.3177 407.930
## ORI_14639_14602  535.599  961.595 417.828 268.088 132.2210  57.0630 390.161
##                 [,5912]  [,5913]  [,5914]  [,5915]  [,5916]  [,5917]  [,5918]
## ORI_10219_10218 352.580  877.216  946.975  735.114  703.401  652.090 1028.960
## ORI_10735_10730 202.140  933.753  412.202 1070.410 1682.530 1573.500  827.684
## ORI_14605_14585 304.980 1202.500  508.169  768.074  983.892  956.231 1042.790
## ORI_14607_14586 252.228  718.363  599.661  894.960 1272.600 1255.700  894.033
## ORI_14609_14587 190.823 1053.180  444.804  986.286 1175.730 1277.730 1191.010
## ORI_14617_14591 154.068 1202.270  533.719  781.038  833.326  896.883  878.488
## ORI_14623_14594 389.785 1065.100  580.816  570.767  785.897  853.700  903.762
## ORI_14629_14597 262.777 1224.990  523.746  999.030 1333.890  917.376  828.672
## ORI_14631_14598 264.447 1268.640  447.141 1103.810 1477.280  948.444 1116.510
## ORI_14633_14599 310.725  879.339  667.506  949.226 1134.620 1008.220 1011.050
## ORI_14635_14600 361.189 1100.120  563.192  677.033 1068.580  732.625  940.632
```

```
## ORI_14639_14602 334.263 1035.760  516.830  981.358 1204.250 1061.470  825.542
##                  [,5919] [,5920]  [,5921] [,5922]  [,5923]  [,5924]  [,5925]
## ORI_10219_10218  491.259 1400.22  975.214 1912.31 151.8720 1725.850  955.949
## ORI_10735_10730  701.708 1482.55  970.227 2397.37 267.6030  641.325 1311.730
## ORI_14605_14585  655.492 1520.59 1163.730 2879.53 247.7020 1669.420 1109.740
## ORI_14607_14586  783.642 1603.60 1429.610 2196.67 556.4750 1160.700 1159.200
## ORI_14609_14587  634.608 1628.82 1209.950 2435.20 315.1710 1618.520 1199.560
## ORI_14617_14591  545.533 1537.22 1120.270 1735.02 159.4390 1650.700  697.131
## ORI_14623_14594  502.382 1170.25  855.276 1646.37 137.3110 1957.710  648.461
## ORI_14629_14597  626.924 1269.53 1098.690 2697.34 127.5590 1942.710  803.118
## ORI_14631_14598  761.215 1205.96 1233.200 2720.69 307.4530 1586.050 1191.780
## ORI_14633_14599  655.454 1429.57 1140.500 2074.85 184.8760 1284.710 1147.610
## ORI_14635_14600  689.700 1579.00 1088.230 2123.06 129.4380 1708.760  918.534
## ORI_14639_14602  552.010 1356.72 1036.340 1591.11 112.5700 1327.490  641.768
##                  [,5926]  [,5927]  [,5928]  [,5929]  [,5930]  [,5931]  [,5932]
## ORI_10219_10218 1013.020 1079.340 1050.180 1081.470 116.0240  241.863 1009.390
## ORI_10735_10730 1373.910 1120.120 1491.280 1305.500 528.7580  844.813 1235.360
## ORI_14605_14585 1275.130 1079.490 1385.850 1096.890 293.0270  548.074 1081.480
## ORI_14607_14586 1438.360 1118.060 1389.150 1202.870 523.1580  843.747 1063.360
## ORI_14609_14587 1424.020  860.656 1097.060 1105.430 641.2630 1076.110 1049.630
## ORI_14617_14591 1051.200 1166.430 1327.410 1326.350  32.2257  142.629 1125.090
## ORI_14623_14594  968.467  931.678 1239.530 1141.350  58.6196  279.751  858.048
## ORI_14629_14597 1542.030 1009.600 1139.960 1283.590 194.9340  331.418 1268.570
## ORI_14631_14598 1623.500  806.717 1530.970 1295.120 473.9020  504.565 1003.660
## ORI_14633_14599 1163.320  971.516 1352.660 1357.200 254.5300  530.884 1010.690
## ORI_14635_14600 1466.380 1114.910  971.663 1360.520 135.5770  326.413  786.075
## ORI_14639_14602  977.059 1251.300  873.374 1540.420 229.8860  357.679  857.268
##                  [,5933] [,5934]  [,5935]  [,5936] [,5937]  [,5938] [,5939]
## ORI_10219_10218 1050.650 411.229 1009.890 1806.970 497.549 1111.810 553.569
## ORI_10735_10730 1662.230 572.478 1015.900 1514.720 653.049 1357.690 661.046
## ORI_14605_14585 1556.780 434.156  591.468 1257.840 624.570  921.689 563.841
## ORI_14607_14586 1624.280 691.172  589.761 1354.050 786.505 1212.730 413.269
## ORI_14609_14587 1816.550 411.052  769.478 1595.640 797.017 1110.910 652.871
## ORI_14617_14591 1100.150 751.979  468.707 1528.730 933.349 1429.950 490.148
## ORI_14623_14594 1115.910 397.887  777.832 1251.240 489.531 1048.200 435.240
## ORI_14629_14597 1888.720 765.396  882.357 1547.350 706.620 1246.380 532.702
## ORI_14631_14598 1699.600 584.400  762.792 1856.010 476.734 1384.450 568.065
## ORI_14633_14599 1473.460 698.138  845.242 1572.630 786.885 1061.270 707.244
## ORI_14635_14600 1326.430 443.769  816.951 1574.160 520.050 1052.640 577.862
## ORI_14639_14602 1408.350 777.179  757.852 1785.090 624.777 1121.350 398.066
##                  [,5940] [,5941] [,5942]  [,5943]  [,5944]  [,5945]  [,5946]
## ORI_10219_10218  584.594 632.049 389.420  829.917 1093.820  420.129  731.458
## ORI_10735_10730  769.114 470.484 534.207 1055.040 1730.480  758.640  863.566
## ORI_14605_14585  830.231 412.133 476.779  978.841 1367.720  550.099  753.111
## ORI_14607_14586  795.549 365.707 552.213  881.275 1110.890  536.356  859.538
## ORI_14609_14587  874.572 680.357 622.696 1205.380 1077.640  645.240  799.117
## ORI_14617_14591  719.945 716.936 420.783 1027.560 1238.360  459.209 1012.910
## ORI_14623_14594  676.118 385.541 316.881  811.576 1053.150  435.302  876.330
## ORI_14629_14597  971.254 593.529 588.524  976.963 1600.400  693.510  899.559
## ORI_14631_14598  891.322 720.554 803.075 1212.280 1228.140  734.495  925.310
## ORI_14633_14599  634.153 461.928 509.993  911.024 1191.210  644.481 1121.770
## ORI_14635_14600  925.898 629.451 454.595  769.939  966.187  565.849 1076.040
## ORI_14639_14602  607.567 623.512 505.669  916.456 1165.370  872.644  745.497
##                 [,5947] [,5948]  [,5949] [,5950]  [,5951]  [,5952] [,5953]
```

```
## ORI_10219_10218 262.309 683.878 1051.260 190.848  602.986  547.941 464.475
## ORI_10735_10730 547.267 520.936 1357.370 328.331 1423.850 1590.220 341.247
## ORI_14605_14585 361.924 642.420 1021.580 291.502 1077.210 1096.620 501.960
## ORI_14607_14586 407.227 582.081 1300.710 463.963 1290.550 1267.800 662.014
## ORI_14609_14587 540.987 623.007 1082.880 428.161 1145.300 1504.860 640.432
## ORI_14617_14591 401.086 749.891 1100.410 200.998  570.144  679.017 608.640
## ORI_14623_14594 266.040 584.270  919.158 166.959  624.334  794.177 500.258
## ORI_14629_14597 482.738 576.575  771.374 525.134  750.914  956.587 406.957
## ORI_14631_14598 520.800 950.514 1424.450 384.614  794.162  989.650 597.944
## ORI_14633_14599 146.696 601.399  589.947 345.821  753.894  793.799 630.882
## ORI_14635_14600 361.790 756.102  842.735 219.014  762.194  720.349 480.007
## ORI_14639_14602 541.846 560.447 1777.670 288.193  867.099  881.404 325.229
##                   [,5954] [,5955]  [,5956] [,5957] [,5958]  [,5959] [,5960]
## ORI_10219_10218   82.8418 224.873  71.0712 420.891 315.555 287.3630 513.794
## ORI_10735_10730  205.7350 217.053 478.0010 368.970 360.826 212.6610 425.871
## ORI_14605_14585 1350.7700 219.790 198.8450 391.668 406.704 195.5810 593.755
## ORI_14607_14586   62.8396 401.552 240.0750 292.886 192.616 293.5280 401.903
## ORI_14609_14587  184.2670 205.768 258.9990 432.632 359.140 227.5860 595.425
## ORI_14617_14591   77.7640 108.220 100.1050 547.898 162.100 383.4390 488.464
## ORI_14623_14594  114.7280 213.568 159.3160 341.988 225.597 172.2120 384.886
## ORI_14629_14597  647.2750 209.057 206.4890 270.940 409.987 256.4900 501.213
## ORI_14631_14598  195.4840 212.083 185.5410 269.074 323.267 189.9580 327.591
## ORI_14633_14599  132.1310 255.426 259.6820 533.136 389.323 279.5670 607.839
## ORI_14635_14600  110.5910 204.770 253.1890 534.126 300.770 253.1040 665.395
## ORI_14639_14602   81.3085 170.950 574.9150 224.731 241.633 264.0690 416.415
##                  [,5961]  [,5962]  [,5963] [,5964] [,5965]  [,5966]   [,5967]
## ORI_10219_10218 1620.590  773.257  800.529 291.968 218.836 142.8020 6588.3200
## ORI_10735_10730 1185.170 1499.050  840.168 259.384 332.961 151.1100  218.4050
## ORI_14605_14585 1288.610 1070.880  563.151 313.980 299.818 174.3430 6426.5300
## ORI_14607_14586 1141.010 1073.210  900.415 262.272 597.137 185.8730 7491.8400
## ORI_14609_14587 1365.090 1234.200  774.321 328.428 471.543 278.8080 3401.7600
## ORI_14617_14591 1569.770  794.259  835.437 338.727 373.726  72.8029 3929.4100
## ORI_14623_14594 1169.600  823.225  568.278 262.618 321.091 188.6470 4980.9400
## ORI_14629_14597 1172.580  896.403  574.562 392.325 414.479 224.3610 1038.3900
## ORI_14631_14598 1275.810 1112.270  875.283 408.703 317.151 159.0850 3236.5900
## ORI_14633_14599 1217.470 1350.320  716.393 342.442 258.388 335.5160 2326.9000
## ORI_14635_14600 1225.280 1270.340  624.511 272.250 357.950 211.5370 2733.2000
## ORI_14639_14602 1073.390 1308.730 1053.020 283.570 414.107 175.1700  933.8850
##                 [,5968] [,5969] [,5970]  [,5971]   [,5972]  [,5973]  [,5974]
## ORI_10219_10218 302.850 597.906 146.138 151.5880  237.8230 1043.990  569.848
## ORI_10735_10730 318.867 311.383 255.084 298.1470  126.8340  741.600  209.255
## ORI_14605_14585 222.539 510.627 229.375 254.2790   38.6438 1038.730  192.312
## ORI_14607_14586 314.586 497.153 537.379 365.6840  337.5770  477.044  358.433
## ORI_14609_14587 228.563 325.531 164.353 309.6450  115.8670  796.533  252.357
## ORI_14617_14591 347.513 374.423 126.741  97.9165   47.2490  912.483  240.173
## ORI_14623_14594 165.618 495.953 271.989 134.5990   24.6827  849.628  254.701
## ORI_14629_14597 200.213 454.637 184.066 302.4360   24.6827  822.056  368.386
## ORI_14631_14598 190.997 374.621 253.076 266.7860  180.6130  627.704  213.489
## ORI_14633_14599 293.581 553.883 211.475 172.9060   24.6827  862.452  195.623
## ORI_14635_14600 199.573 678.609 255.085 146.6080   24.6827  801.900  178.456
## ORI_14639_14602 243.496 519.405 299.065  89.2670   24.6827  557.551  165.080
##                   [,5975] [,5976] [,5977]  [,5978] [,5979]  [,5980]  [,5981]
## ORI_10219_10218  123.4220 414.622 3964.85 1138.550 123.810 1972.220  815.899
## ORI_10735_10730  378.1700 602.038 2496.40  839.005 505.343 3386.910  965.168
```

```
## ORI_14605_14585  235.3660 721.634 3739.34 1203.600 293.181 3246.210  993.188
## ORI_14607_14586  428.0140 441.742 3496.21 1211.240 234.011 2220.190  708.894
## ORI_14609_14587  279.0230 927.694 3148.12 1213.090 149.387 2465.240  953.945
## ORI_14617_14591  205.9790 391.562 2662.75  719.961 119.635 2617.880  763.044
## ORI_14623_14594  364.8040 320.631 2753.97  718.398 727.746 3047.740  709.977
## ORI_14629_14597  291.5600 467.329 2811.58  943.413 426.918 6270.520  471.050
## ORI_14631_14598  292.1520 818.613 2721.81 1010.510 210.389 3531.600  977.198
## ORI_14633_14599  342.1770 645.168 2853.84  484.616 224.564 2612.770  814.679
## ORI_14635_14600  359.7030 488.571 2781.99  674.465 664.272 1520.720  748.006
## ORI_14639_14602  285.9260 435.890 3345.20 1229.660 294.106 4649.110 1084.440
##                  [,5982]  [,5983] [,5984]  [,5985]  [,5986]  [,5987] [,5988]
## ORI_10219_10218 1227.330  543.725 282.842  376.832  285.172 1073.920 459.823
## ORI_10735_10730 1503.750  657.692 240.406  576.418 1139.060  805.121 198.465
## ORI_14605_14585 1432.350  909.176 290.618  501.325  403.200  985.306 129.417
## ORI_14607_14586 1428.230  581.494 396.266  403.340  992.962 1118.410 230.053
## ORI_14609_14587 1476.560  760.523 398.615  702.322  940.377  742.700 207.283
## ORI_14617_14591  860.589  600.205 193.394  430.832  603.238  509.076 411.533
## ORI_14623_14594  979.919  516.313 258.840  402.593  553.379  848.280 403.842
## ORI_14629_14597 1196.990  666.215 331.422  569.324  920.436  889.408 366.856
## ORI_14631_14598 1446.940  651.515 364.467  464.319 1206.450  885.868 494.184
## ORI_14633_14599 1028.170  508.046 314.077  822.763  690.061 1080.560 223.708
## ORI_14635_14600  997.849  572.641 270.206  578.890  681.458  804.859 196.540
## ORI_14639_14602  738.613  629.916 283.945  475.680  647.642  843.548 143.792
##                  [,5989] [,5990] [,5991]  [,5992] [,5993]  [,5994]  [,5995]
## ORI_10219_10218 180.5960 231.282 223.253 148.9850 476.475  480.522 1456.420
## ORI_10735_10730 204.7530 307.595 259.362 153.9050 327.409  633.524  634.087
## ORI_14605_14585 121.9060 342.642 216.404 135.9130 370.788  643.392 1165.010
## ORI_14607_14586 460.4590 275.152 296.647 187.4280 325.621 1374.730  427.918
## ORI_14609_14587 304.6440 188.636 223.964 125.7530 356.235 1233.390  739.588
## ORI_14617_14591  80.9577 168.559 198.279 115.8340 471.646  270.496 1219.870
## ORI_14623_14594  95.5861 341.521 200.433 163.9130 399.240  255.291  649.477
## ORI_14629_14597 116.8050 434.170 354.923 175.7620 500.712  247.401  658.448
## ORI_14631_14598 167.5280 368.864 246.806 168.3010 326.072  783.395  498.636
## ORI_14633_14599 165.5640 234.189 205.997 218.0470 366.290  639.672  246.417
## ORI_14635_14600 136.3630 286.548 221.119 163.5490 325.939  389.861  774.894
## ORI_14639_14602  93.5055 286.584 319.315 138.6560 160.935  175.463  595.292
##                  [,5996]  [,5997]  [,5998]  [,5999]  [,6000] [,6001]  [,6002]
## ORI_10219_10218  487.137  621.179  75.3860  922.482 246.9020 433.971  759.795
## ORI_10735_10730  775.659  795.196 284.2170  565.076 176.5750 206.733  318.213
## ORI_14605_14585  449.462  640.238  71.1789  817.381 157.2500 183.292  268.821
## ORI_14607_14586  906.799  506.587 145.0560  563.568 395.0610 290.309  390.872
## ORI_14609_14587  681.476  760.646 243.3540  808.604 387.3410 141.340  601.616
## ORI_14617_14591  505.241  789.542 179.3430 1136.620 337.4970 330.627  994.034
## ORI_14623_14594  370.017  617.624 118.0730  753.522 201.8190 363.430  632.582
## ORI_14629_14597 1191.780  626.144  76.8939  246.850 135.9280 201.914  523.777
## ORI_14631_14598  694.097  717.171 217.6750  633.831 164.0740 217.867  862.711
## ORI_14633_14599  427.734  645.899 218.4850  679.168 326.5600 307.741  424.314
## ORI_14635_14600  323.356  485.300 156.0150  967.766 175.9700 321.591  539.018
## ORI_14639_14602  772.807  335.330 194.9380  323.415  97.1507 306.790  732.915
##                 [,6003]  [,6004]  [,6005]  [,6006]  [,6007]  [,6008] [,6009]
## ORI_10219_10218 5141.77 258.4470 503.0550 254.8710 1514.420  320.909 379.746
## ORI_10735_10730 3151.60  76.8526 114.6570 187.8170 3483.680  993.777 473.428
## ORI_14605_14585 3928.55  86.7015 136.3200 246.7560 3459.100  739.218 360.881
## ORI_14607_14586 3150.47  94.1308 132.0130 287.2040 1581.470 1405.580 426.238
```

```
## ORI_14609_14587 3305.10  65.2175 104.6170 225.9060 3287.750 1401.650 473.893
## ORI_14617_14591 3690.77 146.3490 499.1490 254.0140 3390.490  217.802 411.416
## ORI_14623_14594 4681.41 139.3400 223.2270 170.4000 3318.170  317.428 344.450
## ORI_14629_14597 3345.24  82.4612 147.4390 223.3170 6096.650  924.427 268.795
## ORI_14631_14598 3597.94  64.1529 140.1910 141.0710 4594.760  896.240 516.101
## ORI_14633_14599 5787.70  58.7240 250.5620 288.3430 4502.850  165.546 434.246
## ORI_14635_14600 3679.70 102.7430 262.4610 276.5560 3890.050  214.221 370.919
## ORI_14639_14602 2775.32  66.3833 202.4090 198.9440 4312.060  294.410 372.397
##                  [,6010] [,6011]  [,6012] [,6013]   [,6014]  [,6015]  [,6016]
## ORI_10219_10218  179.660 1947.31  85.7644 289.103   67.1951  902.906  884.135
## ORI_10735_10730 1292.590 3453.55 231.9500 337.726  600.2500  994.377  853.940
## ORI_14605_14585  853.208 3062.23 193.6320 266.788   58.2971  748.998  815.764
## ORI_14607_14586  285.036 2978.51  62.0641 288.247  608.2300 1000.250  962.645
## ORI_14609_14587  491.651 3365.88 104.7530 329.113  461.5780 1160.110  942.864
## ORI_14617_14591  211.923 2490.10  45.1531 204.875   25.8744 1358.020 1265.550
## ORI_14623_14594  464.613 2531.76  97.1662 299.674   39.9117  790.408 1040.150
## ORI_14629_14597  264.516 3138.95 111.7740 215.937  390.9980  946.671  774.608
## ORI_14631_14598  648.808 3286.63 130.3140 334.228  900.3600  942.163  854.676
## ORI_14633_14599  536.965 3211.80 104.8730 257.276   62.4618 1218.740  884.718
## ORI_14635_14600  810.393 3212.85 149.3500 209.267   42.5016 1146.880 1298.970
## ORI_14639_14602 1394.290 2195.32 247.8510 153.548  101.9130  568.092 1012.120
##                  [,6017]  [,6018] [,6019] [,6020]  [,6021] [,6022]  [,6023]
## ORI_10219_10218 1003.450 295.6260 165.541 156.171 115.9140 240.797  539.079
## ORI_10735_10730  825.927  72.0684 219.837 372.483 200.7650 309.139  696.347
## ORI_14605_14585 1126.970 118.1400 289.913 217.591 171.6580 267.911  705.975
## ORI_14607_14586  896.308 149.6770 155.335 408.700  96.2799 350.978  663.314
## ORI_14609_14587 1200.130 105.2340 204.822 328.581 110.5750 551.377  884.567
## ORI_14617_14591 1262.060 251.9880 222.333 179.935 165.8560 351.986  639.373
## ORI_14623_14594  870.397 128.0970 227.398 176.266 114.0350 175.847  595.801
## ORI_14629_14597 1233.300 123.1230 257.500 197.312 489.2400 286.953 1014.030
## ORI_14631_14598  895.714 114.5960 172.830 325.930  49.4602 236.448  895.473
## ORI_14633_14599 1082.490 142.4340 362.990 193.150 183.6170 322.706  587.480
## ORI_14635_14600 1193.340 221.5500 188.472 190.533 157.2280 257.292  508.475
## ORI_14639_14602  601.954 158.3620 212.737 208.348 143.9460 111.198  670.146
##                 [,6024] [,6025] [,6026]  [,6027] [,6028] [,6029]  [,6030]
## ORI_10219_10218 271.847 241.710 212.300  418.474 431.605 287.692  807.682
## ORI_10735_10730 189.409 363.255 511.188  820.736 486.578 467.412  669.372
## ORI_14605_14585 252.586 363.255 312.779  814.955 449.078 373.068  531.797
## ORI_14607_14586 265.978 207.992 331.747 1314.230 414.250 399.081  724.247
## ORI_14609_14587 226.856 205.974 411.463  833.444 285.171 274.742  545.230
## ORI_14617_14591 223.862 222.681 287.539  602.350 264.887 322.155  957.830
## ORI_14623_14594 147.135 257.956 329.141  705.885 529.889 332.945  699.201
## ORI_14629_14597 107.000 306.531 244.721 1666.900 393.800 318.465  955.736
## ORI_14631_14598 273.585 353.268 389.732 1086.710 402.578 321.816  560.244
## ORI_14633_14599 281.275 391.332 408.218  735.402 604.909 452.564 1326.190
## ORI_14635_14600 319.634 278.833 359.393  660.731 474.784 504.747  744.508
## ORI_14639_14602 144.382 268.652 282.665  667.482 436.316 469.839  403.573
##                 [,6031]  [,6032]  [,6033] [,6034] [,6035]  [,6036]  [,6037]
## ORI_10219_10218 166.094  636.613 3108.260 3427.52 1963.27 151.9430  66.4491
## ORI_10735_10730 447.376 1178.860  940.147 2859.22 2376.37 165.1690 270.5000
## ORI_14605_14585 280.987  966.419 2537.240 3708.02 2115.79  53.0386 197.9980
## ORI_14607_14586 590.215 1259.870 1394.150 2312.81 1989.78 144.6810 390.5330
## ORI_14609_14587 400.537 1216.600 1832.670 2918.65 2568.03 124.7190 199.2540
## ORI_14617_14591 136.062 1086.920 2376.560 2711.60 1947.64  97.2116 113.4390
```

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## ORI_14623_14594 171.546  799.278 1838.350 2797.92 1489.79  64.0504 133.7860
## ORI_14629_14597 483.312 1070.770 1815.450 3538.81 1717.60  81.6436 249.1130
## ORI_14631_14598 342.125 1081.660 1077.280 3462.64 2524.72 145.9640 297.5150
## ORI_14633_14599 238.818 1006.400 1332.780 3965.12 2474.47  75.9877 191.4920
## ORI_14635_14600 177.248 1616.480 1734.710 2931.63 1965.02  57.1937 120.3480
## ORI_14639_14602 959.304 1169.400  934.517 2396.29 1907.79  71.3787 316.9010
##                   [,6038]  [,6039]  [,6040] [,6041] [,6042]  [,6043]  [,6044]
## ORI_10219_10218  383.1310 225.4620 1203.800 678.239 195.680  848.853 149.2460
## ORI_10735_10730  748.7290 184.8830  504.147 495.432 447.056 1118.120 551.8040
## ORI_14605_14585  334.1380 278.2490  459.431 579.320 321.473 1017.990  85.2306
## ORI_14607_14586  395.7800 223.5630  581.232 815.997 311.570 1336.990  79.7304
## ORI_14609_14587  780.1890 203.5450  510.533 591.738 364.376 1065.520 109.6350
## ORI_14617_14591  488.5620 211.6510 1354.060 744.360 396.975  873.590  96.5948
## ORI_14623_14594  357.6180 279.5850  779.297 762.076 423.601  798.447 116.1800
## ORI_14629_14597  458.0290 305.8570  399.956 734.863 428.859  983.905 110.2330
## ORI_14631_14598  491.1600 253.2830  468.138 471.876 341.710 1126.670 109.9130
## ORI_14633_14599  654.1610 292.5650  625.135 454.207 562.601 1086.350 179.8690
## ORI_14635_14600  412.2650 281.4870  723.772 580.799 424.922 1023.630  93.9912
## ORI_14639_14602  605.2080 307.4770  588.989 460.221 381.278 1308.800 196.2010
##                  [,6045]  [,6046]  [,6047] [,6048] [,6049]  [,6050] [,6051]
## ORI_10219_10218  578.241  721.443 1178.200 1723.29 349.973  174.077 267.541
## ORI_10735_10730 2263.460 1012.230  723.984 1784.60 388.569  435.994 384.319
## ORI_14605_14585 1682.580  763.602  425.289 1966.60 452.296  365.769 368.067
## ORI_14607_14586 1603.880  719.968  713.620 2605.37 542.468 1181.210 283.251
## ORI_14609_14587 1861.650  798.000  395.012 2471.56 382.636  776.165 490.727
## ORI_14617_14591  790.261  878.306 1359.140 2143.91 411.535  173.448 244.978
## ORI_14623_14594  905.176  637.753  932.006 1756.61 334.968  147.211 213.203
## ORI_14629_14597 1813.450  590.668  580.006 1915.69 500.213  174.230 451.876
## ORI_14631_14598 1642.550  869.188  460.281 2580.74 513.170  599.027 419.247
## ORI_14633_14599 1856.860  948.344  636.729 2497.07 388.379  227.957 361.907
## ORI_14635_14600 1345.870  987.873  558.763 1853.38 347.843  344.386 286.119
## ORI_14639_14602 1076.130 1152.590  592.660 1772.15 390.773  107.547 290.665
##                  [,6052] [,6053]  [,6054] [,6055]  [,6056] [,6057] [,6058]
## ORI_10219_10218  541.808 415.077 118.7090 365.221  398.621 1326.01 221.658
## ORI_10735_10730  544.024 128.609 134.5860 641.806  721.168 2091.49 241.916
## ORI_14605_14585  530.113 199.625 153.5650 631.645  502.207 3083.41 313.810
## ORI_14607_14586  581.299 258.269 310.1570 585.387  641.460 2636.90 474.980
## ORI_14609_14587  628.698 187.439 250.2900 775.354  696.451 2690.08 339.390
## ORI_14617_14591  930.227 394.413 159.4940 448.219  613.974 1487.60 159.249
## ORI_14623_14594  582.670 280.862 214.1990 444.505  399.135 1358.81 205.923
## ORI_14629_14597  748.434 253.758 241.4050 516.015 1074.470 2674.24 276.129
## ORI_14631_14598  755.209 189.569 259.4930 695.632  850.870 3519.82 316.537
## ORI_14633_14599  533.149 240.152 183.8680 595.825  357.492 3214.44 236.039
## ORI_14635_14600  595.484 290.710 192.5460 603.402  576.696 1854.04 193.469
## ORI_14639_14602  512.315 172.181 252.9250 470.944  940.137 1451.15 233.796
##                   [,6059] [,6060]   [,6061]  [,6062]  [,6063]   [,6064] [,6065]
## ORI_10219_10218  717.6810 307.179 3344.0700 110.3320 1555.750  927.4540 747.109
## ORI_10735_10730  230.4770 359.847  132.0430 135.1620  839.931  163.3650 373.308
## ORI_14605_14585  477.5870 358.679  291.9650  95.1681 1254.740  927.6740 442.981
## ORI_14607_14586  168.9410 371.694  880.9670 128.8980 1216.990  425.1020 405.443
## ORI_14609_14587  216.9560 322.995  360.5990 107.7220 1693.090  405.5810 710.127
## ORI_14617_14591  502.1820 304.046 2422.6000  24.6827 1853.030  881.3710 375.808
## ORI_14623_14594  449.5980 361.786 1485.6900 107.5760 1233.900  658.2920 230.404
## ORI_14629_14597  144.1350 519.065  351.4500 147.8260 1527.840  279.7250 486.201
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## ORI_14631_14598  144.5300 548.535  284.5190 109.0800 1231.050  192.2220 479.655
## ORI_14633_14599  462.0350 283.787  532.1340 150.3650  998.650  288.6370 526.737
## ORI_14635_14600  483.1350 366.601  876.7480 142.6010 1080.760  470.7870 412.826
## ORI_14639_14602  646.9770 461.402  511.5470 115.0680  887.267  175.2300 275.771
##                 [,6066]  [,6067]  [,6068]  [,6069] [,6070]  [,6071]  [,6072]
## ORI_10219_10218 590.022 1250.720 1295.150  865.595 2066.06 234.4850 114.1480
## ORI_10735_10730 406.702 1827.800  750.531 1216.810 1304.01 322.3610 122.1540
## ORI_14605_14585 540.871 1315.360  924.790 1243.540 1410.07 119.7500  40.0457
## ORI_14607_14586 480.932 1368.910  772.848 1216.480 1486.42 162.8640 202.6600
## ORI_14609_14587 535.730 1739.160  920.366  718.215 1515.74 173.9000 144.5910
## ORI_14617_14591 399.687 1567.770 1121.120  486.934 2062.87 329.5490 130.8620
## ORI_14623_14594 329.413 1249.910  670.894  982.047 1338.41 212.2110 100.2150
## ORI_14629_14597 192.791 1387.040  777.753  705.852 1377.33 173.6040  60.3610
## ORI_14631_14598 407.891 1963.550  801.256 1014.500 1576.15 166.0610  58.7718
## ORI_14633_14599 254.547 1729.940 1017.840 1107.760 1836.46 241.4520 332.6160
## ORI_14635_14600 274.716 1543.010  712.804  744.152 1361.14 168.0390 135.4200
## ORI_14639_14602 187.309 1917.530  684.718  625.580 1349.61 185.6650 166.8520
##                 [,6073]  [,6074] [,6075]  [,6076]  [,6077] [,6078]  [,6079]
## ORI_10219_10218 2082.13  995.837 359.750  546.898  453.858 299.524 1187.500
## ORI_10735_10730 2127.84 1000.050 418.926  968.025  744.800 533.383 1386.180
## ORI_14605_14585 2412.69 1187.390 439.001  970.181  852.664 407.290 1031.470
## ORI_14607_14586 2215.50 1206.130 368.955 1202.720  603.486 336.997 1124.330
## ORI_14609_14587 1831.95 1371.010 786.021 1297.970  663.959 394.346 1285.920
## ORI_14617_14591 1932.36  942.268 248.323  755.018  658.763 384.898  916.828
## ORI_14623_14594 1467.97  695.736 188.564  542.664  466.716 371.796  671.655
## ORI_14629_14597 2552.60 1151.810 497.633  903.528 1179.450 430.268  522.717
## ORI_14631_14598 2077.74 1248.610 474.360  894.365  856.676 459.099  858.750
## ORI_14633_14599 2678.83 1331.970 438.016  989.038  673.081 408.392  862.799
## ORI_14635_14600 1453.80  845.855 253.363  527.504  468.126 427.007  887.119
## ORI_14639_14602 1835.69  851.810 179.995  937.026  689.387 350.988  616.832
##                  [,6080] [,6081]  [,6082] [,6083]  [,6084] [,6085] [,6086]
## ORI_10219_10218 1333.630 432.836  368.900 564.574  590.459 283.497 590.602
## ORI_10735_10730  993.351 456.686  435.161 264.852  715.712 371.094 610.363
## ORI_14605_14585 1032.820 373.128  522.932 351.019  603.667 266.081 553.177
## ORI_14607_14586 1051.450 397.408  694.952 409.376  581.028 183.689 357.070
## ORI_14609_14587 1245.680 610.668  749.900 278.769 1093.710 560.959 415.386
## ORI_14617_14591 1541.190 548.462  731.863 288.062  763.460 355.405 372.332
## ORI_14623_14594 1307.870 370.650  413.065 372.953  353.323 227.149 506.414
## ORI_14629_14597 1168.650 502.415  614.915 182.247  458.300 221.818 334.957
## ORI_14631_14598  977.186 659.668  580.461 263.736  543.749 279.754 362.400
## ORI_14633_14599 1408.650 382.617  717.717 292.384  493.527 282.014 616.175
## ORI_14635_14600 1074.680 525.576  726.297 298.883  553.573 331.685 476.873
## ORI_14639_14602  854.962 314.727  424.996 270.101  368.613 189.203 390.336
##                 [,6087] [,6088] [,6089]  [,6090]  [,6091] [,6092]  [,6093]
## ORI_10219_10218 344.753 3178.88 270.590  271.283 153.8400 321.659 1065.250
## ORI_10735_10730 440.826 4081.16 334.896  747.873 190.3250 348.726  788.108
## ORI_14605_14585 402.866 3654.35 262.747  585.170 122.5470 406.472  901.693
## ORI_14607_14586 327.843 3689.99 915.195  275.520 147.2980 353.669  848.872
## ORI_14609_14587 333.876 3756.65 378.958  521.573 257.0750 299.882 1044.390
## ORI_14617_14591 336.826 3171.34 167.686  308.988 166.5220 289.737 1117.390
## ORI_14623_14594 180.675 3184.90 169.415  500.956 185.3360 343.805  927.911
## ORI_14629_14597 202.666 4227.68 253.581  307.917 192.7090 453.664  829.329
## ORI_14631_14598 304.764 4012.14 281.800  567.859 253.0840 311.223  923.933
## ORI_14633_14599 345.123 3851.60 245.728  521.332 151.3260 428.038 1119.390
```

```
## ORI_14635_14600 141.494 2996.40 208.018  675.609 283.1650 464.263 1092.100
## ORI_14639_14602 217.372 2902.91 200.757  940.815 179.3380 378.327  959.384
##                  [,6094]  [,6095] [,6096] [,6097]  [,6098] [,6099] [,6100]
## ORI_10219_10218  888.885  593.575 359.123 334.953  79.4188 320.872 422.576
## ORI_10735_10730 1038.940 1009.300 300.571 475.066 182.7290 178.220 611.602
## ORI_14605_14585  850.393  412.965 511.529 323.272 118.8140 400.186 499.258
## ORI_14607_14586  846.169  953.660 305.310 241.178  68.2095 405.884 385.613
## ORI_14609_14587 1000.170  905.144 308.040 342.041 133.7500 330.057 559.382
## ORI_14617_14591 1027.890  782.601 109.906 352.647  67.9445 255.533 455.105
## ORI_14623_14594  709.162  648.768 336.263 235.271 281.0990 387.215 403.927
## ORI_14629_14597  813.359  748.644 349.957 318.936 152.4560 476.196 466.797
## ORI_14631_14598  917.445  952.673 345.050 377.801  87.4050 328.321 517.447
## ORI_14633_14599 1207.840  992.097 424.029 203.372 158.4770 427.381 450.640
## ORI_14635_14600 1005.890  828.901 285.746 265.334 351.8310 391.188 569.984
## ORI_14639_14602  941.187  889.568 305.738 489.212 115.4050 316.817 604.045
##                  [,6101]  [,6102]  [,6103] [,6104]  [,6105]  [,6106]  [,6107]
## ORI_10219_10218  517.287  562.121  83.0799 343.244  664.329 751.0420 156.6070
## ORI_10735_10730 1371.860 1462.130 444.5990 536.774 1277.020 571.3210 409.2340
## ORI_14605_14585  906.657  670.426 204.8980 367.971  831.091 556.3970 177.2280
## ORI_14607_14586  808.132 1279.580 409.2640 360.756 1359.020 312.0060 209.1960
## ORI_14609_14587  900.962 1580.480 268.0510 442.922  997.253 351.5730 274.9360
## ORI_14617_14591  875.843  658.563 139.9310 317.213 1204.380 398.8930  86.6425
## ORI_14623_14594  941.958  468.988  70.3256 303.540 1144.750 580.4800 163.0780
## ORI_14629_14597  777.486  203.084 100.0460 349.391 1097.980 624.7590 172.7000
## ORI_14631_14598  832.189 1423.950 345.1520 423.705  843.159 410.1290 399.2370
## ORI_14633_14599  959.486  657.553 115.3980 295.449 1613.340 513.7320 212.1620
## ORI_14635_14600  999.012  686.103 122.6860 365.162 1134.430 492.1200 232.8300
## ORI_14639_14602 1059.470  321.301 445.9910 333.267 1546.040 520.6710 185.2900
##                 [,6108]  [,6109]  [,6110]  [,6111] [,6112]  [,6113]  [,6114]
## ORI_10219_10218 655.067  632.604 1324.060 210.4130 276.130  24.6827  813.494
## ORI_10735_10730 638.793  623.710 1092.750 104.7980 287.945 247.2800  827.183
## ORI_14605_14585 627.785  615.562 1407.480 166.8400 437.361 162.7750 1126.610
## ORI_14607_14586 707.145  750.057 1213.410 125.3800 409.120  27.7048  614.172
## ORI_14609_14587 474.193  956.770 1706.140 143.7850 333.857 111.2660  911.258
## ORI_14617_14591 528.870  696.841 1304.780 341.3780 303.369  35.1679  840.952
## ORI_14623_14594 528.554  460.151 1464.850 253.0870 258.825 113.3520  917.713
## ORI_14629_14597 737.336  536.194 1087.040 152.4980 312.055 115.5660 1108.100
## ORI_14631_14598 489.724  769.990 1406.090 114.4860 303.837 157.7080 1374.410
## ORI_14633_14599 477.352  516.924 1311.190 195.3300 363.751  88.5999 1082.040
## ORI_14635_14600 522.293  472.995 1117.550 253.5660 330.163  91.9931  593.938
## ORI_14639_14602 520.001  265.593  913.475 280.0150 511.238 476.4740 1425.850
##                  [,6115]  [,6116]  [,6117] [,6118]  [,6119] [,6120]  [,6121]
## ORI_10219_10218 132.8410 203.1800  495.525 400.578 216.8590 367.844  837.073
## ORI_10735_10730 138.4250 170.0600  953.472 329.736 176.3080 347.428 1010.650
## ORI_14605_14585 161.0790 283.4620  828.988 283.515 164.5700 318.733  748.903
## ORI_14607_14586 168.3280 295.3970 1012.260 413.871 240.9010 227.705  875.075
## ORI_14609_14587 106.2340 401.6610  801.066 452.480 278.4770 441.830 1150.560
## ORI_14617_14591  54.2465 115.5660  937.621 332.577 214.8740 419.812  933.367
## ORI_14623_14594 118.0470 176.8120  752.538 328.425 169.6580 194.591  764.603
## ORI_14629_14597  78.5614 125.6010 1370.160 407.037 236.8810 224.207  788.941
## ORI_14631_14598  90.0591 254.2620  981.750 292.208 154.4290 296.235 1295.950
## ORI_14633_14599 158.5310 200.8900 1169.000 533.180 329.7460 206.695 1018.960
## ORI_14635_14600  92.6876 150.3030  997.229 411.404 285.0000 301.479 1055.550
## ORI_14639_14602 187.0920 152.4790 1177.210 306.485 178.0410 126.588  873.357
```

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##                  [,6122] [,6123]  [,6124]  [,6125]  [,6126]  [,6127]  [,6128]
## ORI_10219_10218 493.784 173.763  913.032  550.536  607.515 1227.160 1138.110
## ORI_10735_10730 360.697 326.730  834.507  532.122 1179.660  622.775  551.093
## ORI_14605_14585 481.147 249.440  942.490  692.532 1024.990  498.657  740.016
## ORI_14607_14586 345.861 285.330  689.155  768.133 1332.330  555.618  615.307
## ORI_14609_14587 252.592 306.309 1090.060  965.921 1357.680  446.483  603.809
## ORI_14617_14591 472.480 219.300  694.362  540.104  668.754 1573.830  825.785
## ORI_14623_14594 274.846 180.148  799.075  377.284  484.954 1340.100  696.900
## ORI_14629_14597 138.577 254.508  615.600  642.547 1351.330  367.605  291.954
## ORI_14631_14598 331.130 285.016  829.635  818.950 1394.360  473.597  548.616
## ORI_14633_14599 303.414 281.500  676.239  791.305  903.701  548.752  539.188
## ORI_14635_14600 295.382 177.751 1028.810  640.714  641.509  686.655  685.704
## ORI_14639_14602 323.302 159.792  724.367  390.821  831.708  560.646  626.256
##                   [,6129]  [,6130] [,6131]  [,6132]  [,6133]  [,6134]  [,6135]
## ORI_10219_10218 2686.870  447.423 260.962 1051.120 291.5200 395.6030 2154.880
## ORI_10735_10730  878.133 1165.920 413.789  751.042  77.1983 134.7050  198.741
## ORI_14605_14585 1746.750  814.290 398.468  825.031 322.1220  92.3053 1461.430
## ORI_14607_14586 1856.610 1355.620 330.136 1013.140 114.6820 236.5150  607.033
## ORI_14609_14587 1534.090 1121.770 402.842  943.560 184.5370 207.0890  525.340
## ORI_14617_14591 1950.830  490.116 350.230 1856.460 110.2550 434.2890  570.190
## ORI_14623_14594 2374.550  528.471 342.158 1158.450 174.7730 355.8250  947.866
## ORI_14629_14597  850.600  861.387 370.111  657.650 110.8430 210.1990  330.137
## ORI_14631_14598 1955.190 1104.270 402.703 1023.590 104.7090 112.3490  535.463
## ORI_14633_14599 2379.690  515.574 334.489  899.725 115.7990 223.1150  190.669
## ORI_14635_14600 1324.580  585.996 433.782 1205.250 149.6160 235.2450  514.593
## ORI_14639_14602  953.267  659.374 425.607 1207.130  80.6132 129.3230  194.874
##                   [,6136] [,6137]  [,6138]   [,6139]   [,6140]   [,6141] [,6142]
## ORI_10219_10218 195.4740 259.456 1354.030   71.1336  143.6050  499.7510 287.925
## ORI_10735_10730 306.8870 425.980  831.943  165.5660  211.1940  777.4810 629.632
## ORI_14605_14585 167.4280 167.099 1356.160   67.8885  210.3500 1086.6100 359.628
## ORI_14607_14586 161.0140 171.718  839.700  303.7430  625.1560 1439.5000 602.511
## ORI_14609_14587 239.1210 186.807  680.429   96.4438  218.4410 1480.1000 552.171
## ORI_14617_14591 123.4600 178.265 1150.780   24.6827   63.9019  289.9080 380.304
## ORI_14623_14594 220.8360 209.358 1326.080   38.8107  102.6930  290.8150 256.452
## ORI_14629_14597 233.6320 199.930  991.309   75.7075  227.2160  392.5160 377.875
## ORI_14631_14598 236.4740 172.093  707.574  404.3420  315.7000  985.0400 678.944
## ORI_14633_14599 224.8120 263.591  891.869   49.2598   44.0011  872.1580 520.286
## ORI_14635_14600 273.1330 204.798  875.613   40.0841   40.2752  260.7390 546.929
## ORI_14639_14602 347.0980 317.285  867.325   58.7136  393.1580  237.1330 456.403
##                   [,6143]  [,6144]  [,6145]  [,6146]  [,6147]  [,6148]  [,6149]
## ORI_10219_10218  901.755  324.951 159.8650 169.3560 411.9140 274.5180 191.7560
## ORI_10735_10730 1058.330  531.700 188.0490 156.8380 119.4630 107.7240 189.1230
## ORI_14605_14585  773.694  640.809 216.0190 182.5580 106.5600 302.2180 165.3380
## ORI_14607_14586 1067.360  319.004 225.1890 168.8010 145.2300  67.5318 259.0230
## ORI_14609_14587  939.804  694.867 208.4510 271.9080 208.0830 204.4910 192.2840
## ORI_14617_14591 1019.480  412.524  86.4709  78.3812 391.3350  34.4948 192.6320
## ORI_14623_14594  913.380  592.370 128.0090 117.0400 270.2200  57.1341 168.8540
## ORI_14629_14597  934.254  902.099 257.8500 153.7200 214.6260  39.2253 162.8320
## ORI_14631_14598  707.382  693.292 282.6180 158.8810 125.4610 113.1230 210.6660
## ORI_14633_14599  750.084  328.219 226.4950 227.6040  90.7217  28.0130 174.4640
## ORI_14635_14600 1059.100  661.330 149.8700 156.9180 167.2950  92.7585 170.6960
## ORI_14639_14602  827.781  213.682 175.6870 162.4450  76.9108  24.6827 116.7510
##                   [,6150]   [,6151]  [,6152] [,6153]  [,6154]  [,6155] [,6156]
## ORI_10219_10218 231.3900  221.1030  880.331 348.685  663.367 186.4540 831.408
```

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## ORI_10735_10730 219.7270  530.7970  714.731 479.661  665.766 422.3110 357.916
## ORI_14605_14585 189.3160  367.9670 1131.260 472.053  686.564 479.0620 379.760
## ORI_14607_14586 116.4910  123.9890  894.616 388.839  991.101 562.9150 458.187
## ORI_14609_14587  82.0038  939.8660  932.320 430.138  726.384 785.3100 697.520
## ORI_14617_14591 192.9000  528.8080  858.443 483.182  462.418 329.4030 639.771
## ORI_14623_14594 221.8620  327.9850  618.630 349.902  691.684 238.2210 631.230
## ORI_14629_14597 134.8390   53.6240  580.002 256.374  349.237 419.3350 501.983
## ORI_14631_14598 118.7200  168.2270  604.550 327.244  875.282 708.5590 685.701
## ORI_14633_14599 180.8330  166.0360  880.693 457.968 1078.600 455.2520 548.783
## ORI_14635_14600 247.6640  277.5070 1067.650 409.916  477.571 381.3500 558.649
## ORI_14639_14602 181.9820   75.6983  577.674 440.979  174.206 427.3630 397.490
##                 [,6157] [,6158]  [,6159]  [,6160] [,6161]  [,6162] [,6163]
## ORI_10219_10218 580.095 407.075 1252.920  207.204 622.427  350.006 198.769
## ORI_10735_10730 674.223 399.294 1582.720  639.875 439.352  533.143 335.216
## ORI_14605_14585 698.450 462.252 1585.710  430.255 621.597  477.752 289.680
## ORI_14607_14586 871.063 472.424 1408.830  302.207 462.389  403.488 323.359
## ORI_14609_14587 784.496 486.580 1646.370  542.000 883.959  456.606 351.876
## ORI_14617_14591 959.309 509.253 1704.390  196.308 645.976  586.802 277.638
## ORI_14623_14594 680.837 349.377 1041.850  258.861 362.197  266.300 290.963
## ORI_14629_14597 678.449 518.847 1622.480  408.440 455.945  484.230 264.359
## ORI_14631_14598 731.521 322.177 1744.860  503.302 653.156  445.192 322.085
## ORI_14633_14599 959.865 553.184 1902.650  417.699 577.038  486.904 285.378
## ORI_14635_14600 768.924 406.358 1140.020  456.412 615.608  247.502 322.523
## ORI_14639_14602 489.185 360.773 1655.120  412.229 539.105  421.361 388.295
##                 [,6164] [,6165] [,6166]  [,6167]  [,6168]  [,6169]  [,6170]
## ORI_10219_10218 342.083 582.251 361.662  560.086  609.852  531.324  504.868
## ORI_10735_10730 485.199 537.913 498.192  897.873  780.775  911.768  645.811
## ORI_14605_14585 368.996 585.738 469.501  626.635  686.267  703.066  582.849
## ORI_14607_14586 427.583 601.633 490.725  773.194  762.295 1165.480  606.582
## ORI_14609_14587 461.831 821.238 667.748  740.157  984.819 1161.880  563.096
## ORI_14617_14591 558.897 617.205 556.478  657.052  794.490  744.528  572.118
## ORI_14623_14594 346.758 544.951 263.799  739.637  839.175  633.811  624.552
## ORI_14629_14597 386.057 664.893 298.912  730.634  643.357  415.133  618.860
## ORI_14631_14598 467.239 676.635 601.690  580.680  609.809 1022.830  643.266
## ORI_14633_14599 358.341 632.580 606.921  684.423  748.814  825.137  703.803
## ORI_14635_14600 525.924 707.207 534.307  647.892  542.862  458.730  840.268
## ORI_14639_14602 399.284 657.496 541.863  689.456  672.986  907.077  662.286
##                  [,6171] [,6172] [,6173]  [,6174]  [,6175]  [,6176]   [,6177]
## ORI_10219_10218  807.602 446.173 301.248  885.196  458.073  474.130  194.7040
## ORI_10735_10730 1275.380 498.493 487.351 1097.760  648.906  757.367 3318.7500
## ORI_14605_14585  907.736 476.560 326.814  994.850  578.623  703.206  282.2450
## ORI_14607_14586  889.534 381.844 400.633  597.593  796.882  658.395  801.8130
## ORI_14609_14587 1151.120 638.904 477.731 1233.310  568.316  897.182  929.5360
## ORI_14617_14591 1001.850 453.545 243.267 1280.520  262.677  712.139  293.6400
## ORI_14623_14594  903.915 411.698 253.726  796.386  567.391  782.641  111.5270
## ORI_14629_14597  919.067 418.131 419.284  898.762  546.192  560.896 3804.4400
## ORI_14631_14598  876.591 424.386 534.239 1022.970  713.499  633.877 1398.8800
## ORI_14633_14599  919.324 483.709 474.103 1110.600  397.502  791.000   87.8580
## ORI_14635_14600  953.703 526.408 404.526  969.768  524.461 1083.970   89.2310
## ORI_14639_14602  825.914 416.098 346.471 1095.380  770.113  989.953 1690.6500
##                  [,6178]  [,6179]  [,6180] [,6181] [,6182] [,6183] [,6184]
## ORI_10219_10218  63.9233 1063.160  817.929 572.958 403.497 499.138 421.631
## ORI_10735_10730 181.1720  854.636  964.502 430.707 273.366 481.618 331.485
## ORI_14605_14585  68.6063 1182.260 1075.140 490.721 563.393 441.919 358.875
```

```
## ORI_14607_14586 295.7180 1374.950  940.243 882.658 233.772 448.486 223.449
## ORI_14609_14587 226.6190 1184.640  901.161 681.694 556.869 469.351 227.183
## ORI_14617_14591  37.2816 1164.500  810.755 977.015 367.319 573.932 201.456
## ORI_14623_14594  50.9588 1339.230  757.178 541.722 202.090 358.250 458.983
## ORI_14629_14597 167.3340  743.048  456.126 492.274 215.435 247.415 309.812
## ORI_14631_14598 332.4860 1054.550  946.923 612.624 484.712 426.960 356.456
## ORI_14633_14599  32.6436 1204.730  995.283 478.272 258.032 409.466 430.743
## ORI_14635_14600  33.1507 1726.360  564.996 657.244 285.221 525.744 430.086
## ORI_14639_14602  85.7897 2063.220  813.479 565.499 173.732 464.905 490.267
##                  [,6185]  [,6186]  [,6187]  [,6188]  [,6189]  [,6190]  [,6191]
## ORI_10219_10218  399.155  523.076  832.347 192.8120 136.1780  523.165  681.820
## ORI_10735_10730  486.098 1094.240  723.314 139.9470 319.0790  879.964  702.349
## ORI_14605_14585  474.101  606.436  789.256 228.1540 175.1240  770.916  542.531
## ORI_14607_14586  510.768 1022.870  470.753 303.6860 146.6290  683.925  601.894
## ORI_14609_14587  544.296 1087.570  816.881 175.0760 312.6510  624.736  870.053
## ORI_14617_14591  553.523  666.129  811.530  67.5316 146.7980  599.750  440.258
## ORI_14623_14594  327.910  451.677  910.081  94.6892 126.5610  818.896  523.447
## ORI_14629_14597  512.231  723.176 1178.730 122.0720 135.7390  547.703  768.880
## ORI_14631_14598  445.165 1027.630  883.923 165.1240 136.6770  969.166  526.043
## ORI_14633_14599  379.029  720.629  810.792 201.5660 285.0300  974.539  881.857
## ORI_14635_14600  502.135  489.894  842.882 143.7100 227.1970  999.788  528.959
## ORI_14639_14602  382.963  949.700  946.988 134.2000 236.4180  720.353  538.879
##                 [,6192]  [,6193]   [,6194] [,6195]  [,6196]  [,6197]  [,6198]
## ORI_10219_10218 369.371  85.7261  441.6510 1179.50  450.686  480.619 2222.510
## ORI_10735_10730 333.115 118.0870  918.6280 1491.03  637.099  568.791  536.666
## ORI_14605_14585 361.137 203.6750  441.4060 1295.27  677.975  656.095 1043.970
## ORI_14607_14586 392.084  98.3755  442.1020 1349.43  542.878  697.062 1308.870
## ORI_14609_14587 454.823 148.7870 1061.0100 1273.70  869.393  451.637  600.143
## ORI_14617_14591 333.363 110.8230  240.8170 1344.01  498.000  596.426  767.445
## ORI_14623_14594 271.602 113.4930  280.9750 2807.86  550.868  976.440 1013.760
## ORI_14629_14597 297.951 805.2950  395.9290 2045.45  414.372  586.728 1410.680
## ORI_14631_14598 392.589 166.2050  631.4290 1590.03  780.915  233.739  802.412
## ORI_14633_14599 244.515 140.9180 1123.8700 1713.34  635.624  532.901 1868.930
## ORI_14635_14600 325.588 101.8070  499.7480 4486.84  646.761  576.327 1064.870
## ORI_14639_14602 274.150  91.0973  327.8710 1787.93  597.501  317.716  878.140
##                 [,6199]  [,6200]  [,6201]  [,6202] [,6203]  [,6204] [,6205]
## ORI_10219_10218 455.741 117.2090  532.896 427.4510 225.361 204.2560 209.797
## ORI_10735_10730 355.311 160.7620  950.777 112.3430 303.140 243.9670 383.616
## ORI_14605_14585 408.242 137.9050  555.216 205.2400 202.127 387.3820 373.247
## ORI_14607_14586 548.467 237.8070  849.683 329.7370 219.439 268.7240 360.291
## ORI_14609_14587 591.498 255.0450  832.731 187.8570 211.273 322.7810 451.388
## ORI_14617_14591 252.270  84.2418  615.431 258.8260 208.884 295.9100 310.371
## ORI_14623_14594 362.353 142.7390  470.591 206.5570 424.581 481.1350 305.058
## ORI_14629_14597 564.733  84.3092  916.708 233.2520 361.400 312.5590 474.151
## ORI_14631_14598 538.781 144.4530  735.578 153.6480 351.806 417.4680 385.997
## ORI_14633_14599 393.771 172.0700  798.261 315.3460 350.099 301.5360 384.503
## ORI_14635_14600 339.886 167.4320  799.093 257.4310 318.733 434.4820 352.413
## ORI_14639_14602 448.422 112.9790  887.508 321.2970 340.119 304.7160 276.125
##                  [,6206] [,6207]  [,6208]  [,6209] [,6210] [,6211]  [,6212]
## ORI_10219_10218  504.700 662.184  404.947 141.0540 540.789 239.911  238.073
## ORI_10735_10730  794.602 510.941  898.552 158.4660 305.608 270.640  519.211
## ORI_14605_14585  725.172 542.127  638.801 119.1330 299.871 257.179  618.540
## ORI_14607_14586  550.368 319.769 1120.520 143.2390 570.252 213.284  217.975
## ORI_14609_14587  730.598 260.569  739.999 124.7840 280.223 363.988  693.379
```

```
## ORI_14617_14591  686.707 589.170  449.290 124.8970 301.561 274.158  366.524
## ORI_14623_14594  740.559 668.600  419.573 117.0030 356.260 218.632  576.032
## ORI_14629_14597 1133.310 383.958  643.725  98.6770 433.650 320.024  227.776
## ORI_14631_14598  934.263 621.244 1026.970  86.7357 361.759 298.596  452.280
## ORI_14633_14599  732.895 772.233  497.541 135.1110 422.905 384.810  913.985
## ORI_14635_14600  834.304 652.626  485.795 127.8790 441.292 335.558 1018.800
## ORI_14639_14602 1032.030 356.838  527.684  69.0881 269.701 357.014  867.969
##                 [,6213]  [,6214]  [,6215]  [,6216] [,6217] [,6218] [,6219]
## ORI_10219_10218 317.539 104.8580 103.7970  73.6708 329.338 370.507 396.212
## ORI_10735_10730 648.018 363.3500 291.5300 369.8170 302.491 425.077 378.041
## ORI_14605_14585 576.581 132.8080 184.9850 315.0840 178.192 374.233 411.774
## ORI_14607_14586 524.247 130.6400 141.4300 155.7290 317.184 392.789 339.721
## ORI_14609_14587 582.880 217.0430 228.2250 241.8060 412.844 371.993 408.884
## ORI_14617_14591 497.285 104.9840 131.2320 127.7750 532.630 253.400 584.623
## ORI_14623_14594 602.318 113.7330 228.9690 207.4090 250.087 297.029 391.133
## ORI_14629_14597 500.316 234.9010 122.7530 309.9030 337.981 441.798 224.388
## ORI_14631_14598 634.381 262.2550 233.6290 229.9380 414.294 420.227 437.379
## ORI_14633_14599 558.170 192.0110 117.5840 269.4710 277.983 445.413 535.098
## ORI_14635_14600 566.161 190.5170 303.4640 287.5160 343.964 293.057 764.549
## ORI_14639_14602 610.697 270.5510 351.2540 414.4490 286.016 386.606 592.780
##                  [,6220]  [,6221]  [,6222] [,6223]  [,6224]  [,6225]  [,6226]
## ORI_10219_10218 507.8460 108.9430  731.777 161.242 1403.950 1003.370 307.6970
## ORI_10735_10730  89.4588 151.7170  780.275 390.850  711.222  663.994 311.3870
## ORI_14605_14585  43.1611 174.1160  551.187 214.777 1842.090  968.022 302.6280
## ORI_14607_14586 150.1610 229.6480  487.264 256.330  941.807 1118.450 175.2690
## ORI_14609_14587 109.8530 228.2560  361.134 332.376 1302.660  721.494 559.0670
## ORI_14617_14591 458.4460  37.8744  234.492 226.542 1978.510  763.828 390.5740
## ORI_14623_14594 232.2170 112.3800  786.796 228.434 1408.490  748.307 271.2980
## ORI_14629_14597  66.3277 138.8050  469.168 366.267  687.244  543.312  83.1164
## ORI_14631_14598  70.0041 300.4560  619.364 338.917 1551.960  686.241 562.8910
## ORI_14633_14599  97.6060 120.8550  702.808 340.143 1202.340  602.609  75.7288
## ORI_14635_14600 153.9790  95.7480  657.152 185.194 1260.880  601.350 153.4930
## ORI_14639_14602  55.0182 146.2540  601.675 141.401  977.858  345.150  75.5223
##                 [,6227]   [,6228]  [,6229] [,6230]  [,6231]  [,6232] [,6233]
## ORI_10219_10218 430.851  709.1310 182.8310 240.082  262.210 134.8480 303.953
## ORI_10735_10730 347.669  514.0680 223.5750 251.739  472.415 273.6410 421.765
## ORI_14605_14585 496.930  846.3910 132.2580 202.495  237.151 138.1580 480.103
## ORI_14607_14586 362.906  876.2200  84.1932 176.386  218.018 122.8880 674.540
## ORI_14609_14587 339.706 1002.8900 186.3220 205.212  288.074 143.4940 531.315
## ORI_14617_14591 318.093  256.1740 133.6420 150.864  130.141 136.8410 222.018
## ORI_14623_14594 779.412  282.9860 106.8940 328.483  169.536 133.2050 262.839
## ORI_14629_14597 476.742  332.9360 160.6480 292.256  346.355 185.6730 273.620
## ORI_14631_14598 427.774  498.3320  37.9975 190.676  270.706 262.3570 467.530
## ORI_14633_14599 502.155  554.9450 128.5230 292.195  177.103 167.5470 382.649
## ORI_14635_14600 432.771  383.9070 138.0690 275.447  186.462 196.4770 314.770
## ORI_14639_14602 380.632  156.0050 106.7630 289.340  548.832 316.0740 226.581
##                  [,6234]  [,6235]  [,6236] [,6237]   [,6238]   [,6239]  [,6240]
## ORI_10219_10218 1108.250 1122.260 210.3990 312.840 1507.2600  701.2670 180.4570
## ORI_10735_10730  850.059 1468.400  31.5491 365.682   76.4574  932.8240 162.9770
## ORI_14605_14585  857.921 1052.510 115.3120 390.694   87.2943  423.4740 179.9110
## ORI_14607_14586  791.168 3236.020 266.8880 412.078  798.5200  542.9940 186.0880
## ORI_14609_14587  888.161 2343.900 210.1990 261.468  186.1980  568.0190 182.2640
## ORI_14617_14591  729.917  986.489 409.4250 223.315 1698.2800  641.6890 209.1340
## ORI_14623_14594  654.462 1007.460 291.9500 263.072  708.8380  872.4660 197.8400
```

```
## ORI_14629_14597  702.089  414.881  43.4278 251.119  117.5570  599.9970 510.8660
## ORI_14631_14598  788.098 1548.120 124.8410 384.365  722.0670  918.7040 189.3870
## ORI_14633_14599  829.775  994.550  99.7922 218.245  309.3910  488.8960 172.0420
## ORI_14635_14600  577.759 1299.790  88.7029 298.957  538.7050  489.3870 144.1000
## ORI_14639_14602  762.599  636.919  24.6827 503.011  356.4970  317.2060 191.3030
##                   [,6241] [,6242] [,6243] [,6244] [,6245]  [,6246] [,6247]
## ORI_10219_10218  692.3900 190.658 532.769 1996.58 3244.34 206.1380 333.892
## ORI_10735_10730   71.5009 338.705 590.149 3063.60 2031.26 365.7330 192.483
## ORI_14605_14585  102.0500 288.294 692.792 2933.64 2495.29 215.0420 304.380
## ORI_14607_14586  266.5460 297.892 523.662 3186.77 3988.98 298.2760 252.612
## ORI_14609_14587  207.6260 262.566 296.796 2943.88 2797.52 280.3820 207.246
## ORI_14617_14591  941.5400 485.745 572.426 2004.24 2315.80 232.6730 420.775
## ORI_14623_14594  352.1580 264.644 806.068 2358.69 2479.40 120.7070 255.639
## ORI_14629_14597   72.5668 477.993 518.143 2251.64 2237.05  72.2815 274.198
## ORI_14631_14598  111.0530 413.856 570.978 2979.37 2703.52 172.3510 263.934
## ORI_14633_14599  237.4360 161.196 606.253 3261.83 2301.15 161.7310 199.001
## ORI_14635_14600  266.3550 203.793 744.997 3046.51 2716.87 147.1360 210.689
## ORI_14639_14602  189.9060 331.856 679.436 2532.32 1411.87 153.2420 237.900
##                  [,6248]  [,6249]  [,6250]  [,6251]  [,6252]  [,6253] [,6254]
## ORI_10219_10218 1858.120  464.669  708.718  910.358 1228.860  859.493 523.696
## ORI_10735_10730  720.280 1923.990  560.203  854.299  823.611  710.700 542.648
## ORI_14605_14585 1015.770  959.671  733.348 1105.590 1142.970  728.466 500.693
## ORI_14607_14586 1400.910 1152.110  703.533 1471.420 2106.670  786.542 523.569
## ORI_14609_14587 2157.200  984.325  512.785  876.202 1636.810  949.679 414.819
## ORI_14617_14591  837.382  645.050  462.153  453.140  737.459  975.149 484.050
## ORI_14623_14594 1109.960  662.366  806.122  589.426  860.615  614.236 528.833
## ORI_14629_14597 1451.630  783.849  643.498  645.490  745.128  744.709 588.624
## ORI_14631_14598 2082.110 1294.770  723.321  857.297 1665.540  754.092 563.435
## ORI_14633_14599 1251.910  974.240  811.491  708.318  803.159  607.950 520.408
## ORI_14635_14600  889.491  843.537  739.105  640.244  549.638  891.348 740.882
## ORI_14639_14602  789.183  861.378  709.782  552.223  591.227  533.510 538.388
##                  [,6255] [,6256]  [,6257]   [,6258]  [,6259]   [,6260]  [,6261]
## ORI_10219_10218  636.815 305.211 113.0980 1103.8200 653.5310 1201.0000  961.612
## ORI_10735_10730  935.908 339.242 168.1480  339.1330 137.5060  208.1230  569.061
## ORI_14605_14585  680.259 297.907 119.1880  308.1690 165.7490  216.7070 1133.760
## ORI_14607_14586  950.942 294.893 145.1650  525.1850 287.8500  594.8080 1136.820
## ORI_14609_14587  905.034 249.011 325.1530  531.9380 122.3800  310.4400  961.351
## ORI_14617_14591  736.662 378.209 138.7330  757.6670 504.0330 1532.1300  840.060
## ORI_14623_14594  511.728 558.036 146.2550  552.9050 395.5660  647.9530 1046.020
## ORI_14629_14597  863.229 360.671 269.9870  577.3340  81.3382   82.9182  578.943
## ORI_14631_14598  954.289 249.091 149.6490  768.9310  58.6787  175.9980 1098.770
## ORI_14633_14599  837.372 452.233 203.2760  293.9670 221.6720  315.3540  941.521
## ORI_14635_14600  594.219 418.808 243.5490  406.6410 196.2980  597.5670  863.340
## ORI_14639_14602  786.452 320.891 172.7730  491.9910 210.0370  159.1050  504.486
##                  [,6262]  [,6263]  [,6264] [,6265] [,6266]   [,6267]  [,6268]
## ORI_10219_10218  879.857 175.3980  83.7901 224.247 416.678  145.2360 114.2890
## ORI_10735_10730 1040.510 220.2050 223.4500 608.885 415.274 2273.2200 452.3850
## ORI_14605_14585 1093.450 165.0440 121.0860 294.641 473.856   65.1017 169.2030
## ORI_14607_14586 1064.600 206.8970 199.9970 441.139 324.531  363.6930 212.0300
## ORI_14609_14587 1023.600 271.3810 224.4420 478.184 455.686 1427.3700 223.3380
## ORI_14617_14591  941.869  91.7703  56.1862 226.998 560.915  189.6790  97.3541
## ORI_14623_14594  880.362 110.3480  80.5779 256.939 483.777  123.2590 173.8020
## ORI_14629_14597  931.839 179.7910  81.0239 237.421 507.168 2052.4500 264.7710
## ORI_14631_14598 1091.800 313.7410 199.8430 313.776 499.962  636.4500 201.4450
```

```
## ORI_14633_14599 1245.350 190.6400 154.8020 408.182 390.593   72.4540 169.8470
## ORI_14635_14600 1101.030 190.0070  96.0129 338.247 501.358   24.6827 175.8390
## ORI_14639_14602  902.783 152.8660 215.4900 403.236 422.227  373.3520 133.9650
##                 [,6269]  [,6270]  [,6271]  [,6272]  [,6273] [,6274]  [,6275]
## ORI_10219_10218 313.391 155.9510  227.137 2382.120  388.440 461.827  98.1483
## ORI_10735_10730 379.494 437.3280  840.697 2392.830  429.810 601.926 325.6650
## ORI_14605_14585 261.526 160.5030  662.827 2538.290  360.096 564.262 150.6850
## ORI_14607_14586 194.639 131.0810  426.334 5634.220  440.483 541.241 223.2300
## ORI_14609_14587 121.604 269.9330 1020.580  908.429  608.504 588.808 456.6870
## ORI_14617_14591 262.528 142.4320  669.138  874.467  290.411 635.311  46.6549
## ORI_14623_14594 230.362 185.9700  727.466  932.585  374.790 440.095  70.5516
## ORI_14629_14597 902.611 240.5790 1554.910  806.816  441.643 673.951 205.5010
## ORI_14631_14598 365.298 203.1140 1044.540 3703.900  468.872 599.775 164.2830
## ORI_14633_14599 198.929 199.7030  802.236  560.802  465.753 727.185  75.2570
## ORI_14635_14600 258.404 206.4140 1072.250 1074.650  320.397 723.091 116.7690
## ORI_14639_14602 205.650 348.8930  948.636  355.843  374.269 663.422  59.7886
##                   [,6276] [,6277] [,6278]  [,6279]  [,6280] [,6281]  [,6282]
## ORI_10219_10218  286.4220 317.362 144.875 1667.700 217.1640 560.000  621.759
## ORI_10735_10730  331.9950 474.705 439.202 1596.760 126.6350 576.557  543.156
## ORI_14605_14585  305.5240 563.592 271.233 2153.220  70.2479 563.169  642.883
## ORI_14607_14586  625.2570 645.849 177.576 2320.180 108.1820 631.301  702.370
## ORI_14609_14587  599.8450 592.330 216.720 2700.040 126.2610 539.554  817.566
## ORI_14617_14591   81.0964 801.307 105.617  908.019 361.4100 428.063  911.429
## ORI_14623_14594  119.3160 592.350 194.452  880.165 150.1040 518.885  628.106
## ORI_14629_14597  103.9160 467.762 233.921 1215.980 115.6940 650.599  480.295
## ORI_14631_14598  431.6920 578.816 207.280 1743.860  59.8903 655.023  721.783
## ORI_14633_14599  269.2220 590.903 315.319 1564.290  92.1507 582.759  627.989
## ORI_14635_14600  179.3720 889.234 246.284 1056.220 143.4140 584.695  652.065
## ORI_14639_14602   69.5946 746.371 620.640  458.602  69.4907 545.430  611.231
##                  [,6283]  [,6284] [,6285] [,6286]  [,6287]  [,6288]  [,6289]
## ORI_10219_10218 1288.160  382.533 314.467 587.048  744.118  70.7951 1520.170
## ORI_10735_10730  860.992  716.202 340.816 602.720  628.891  54.6301 1246.780
## ORI_14605_14585  844.669  508.570 229.613 591.033  611.604  24.6827 2093.040
## ORI_14607_14586  771.051  395.725 299.356 413.164  602.453  34.4911 1816.870
## ORI_14609_14587  996.948  605.383 363.294 392.812  447.402  24.6827 1906.150
## ORI_14617_14591 1221.600  588.455 303.183 472.922  478.884  60.8660 1020.740
## ORI_14623_14594 1140.810  587.551 215.459 753.883  665.120  24.6827  963.305
## ORI_14629_14597  933.594  499.758 257.484 807.047  570.858 275.1880 1910.320
## ORI_14631_14598  888.024  433.229 287.870 480.574  420.676  24.6827 1443.980
## ORI_14633_14599  801.174  629.058 221.333 587.263  690.131  27.4813 1178.380
## ORI_14635_14600  915.041  766.914 325.581 614.615  553.419  24.6827 1016.230
## ORI_14639_14602  480.254  664.775 283.306 588.996  409.788 103.9800 1139.940
##                  [,6290] [,6291] [,6292] [,6293]  [,6294]   [,6295]  [,6296]
## ORI_10219_10218 1066.530 361.151 357.331 305.034 157.8220  755.8850 253.0280
## ORI_10735_10730 1202.590 493.204 617.815 291.307 199.5800  371.1890 297.5380
## ORI_14605_14585 1696.430 428.185 511.397 296.975 238.1370  541.9630 274.8890
## ORI_14607_14586 1710.160 362.506 523.892 262.736 267.4420  220.3530 357.8450
## ORI_14609_14587 1406.830 576.362 639.019 422.887 247.6280  326.9410 350.5280
## ORI_14617_14591  811.944 258.511 512.009 302.803 129.7780  476.2140 322.8170
## ORI_14623_14594  655.237 234.077 540.266 246.888 137.5350  516.4030 415.9140
## ORI_14629_14597  819.527 413.605 617.631 206.320 170.7140  218.5540 212.1360
## ORI_14631_14598 1281.680 645.624 546.491 420.329 212.6120  237.9390 322.0670
## ORI_14633_14599  957.484 554.209 593.237 329.583 267.7560  442.3750 505.4420
## ORI_14635_14600  906.520 461.743 524.070 319.097 168.3830  540.4130 395.9650
```

```
## ORI_14639_14602  799.913 515.325 508.208 251.559 123.8080 1101.9400 304.9110
##                  [,6297] [,6298] [,6299] [,6300] [,6301]  [,6302] [,6303]
## ORI_10219_10218 348.8400 415.411 244.275 589.519 569.312  589.864 420.797
## ORI_10735_10730 495.9560 443.705 286.802 528.703 744.299  754.792 606.867
## ORI_14605_14585 533.1480 640.937 258.357 475.039 600.391  492.218 431.429
## ORI_14607_14586 359.1060 545.235 210.152 660.369 521.504  664.914 469.033
## ORI_14609_14587 578.9570 791.637 254.604 530.439 703.801  924.796 590.040
## ORI_14617_14591 330.9440 417.289 248.610 720.477 684.056  880.702 570.715
## ORI_14623_14594 428.4100 564.348 292.619 833.991 562.661  455.532 490.731
## ORI_14629_14597 497.7240 442.011 340.811 603.554 859.315  636.747 377.015
## ORI_14631_14598 572.0630 715.232 317.205 545.147 662.659  639.287 715.729
## ORI_14633_14599 598.4730 383.067 272.498 620.022 589.497  887.615 514.877
## ORI_14635_14600 582.9570 418.932 451.417 672.141 548.395  609.977 552.936
## ORI_14639_14602 406.6790 330.006 366.050 880.845 627.198  632.620 562.580
##                 [,6304]  [,6305]  [,6306] [,6307] [,6308] [,6309] [,6310]
## ORI_10219_10218 361.557  623.111 1013.060 359.432 404.620 197.101 306.180
## ORI_10735_10730 572.355  294.765  707.742 419.512 275.620 473.068 259.039
## ORI_14605_14585 486.516  251.880  796.278 384.163 278.097 241.880 273.264
## ORI_14607_14586 418.408  352.327  887.356 380.866 372.815 269.897 286.891
## ORI_14609_14587 473.375  230.182  961.669 408.314 571.191 355.728 355.391
## ORI_14617_14591 374.939  685.073 1096.600 347.589 392.210 147.533 358.057
## ORI_14623_14594 289.448  452.133  944.308 376.969 232.092 175.331 155.465
## ORI_14629_14597 505.623  272.539 1068.360 260.845 260.718 451.404 185.774
## ORI_14631_14598 425.132  205.155 1033.290 487.143 483.110 325.989 203.102
## ORI_14633_14599 553.707  333.714 1035.030 479.821 277.612 283.282 251.085
## ORI_14635_14600 432.754  463.891 1054.820 460.596 270.724 197.685 292.659
## ORI_14639_14602 405.892  295.039  908.126 325.973 173.627 302.222 195.857
##                 [,6311] [,6312] [,6313]  [,6314]  [,6315] [,6316] [,6317]
## ORI_10219_10218 1484.51 525.793 1167.19  99.7457 1080.740 232.650 337.156
## ORI_10735_10730 1204.65 440.906 1338.45 183.7370 1092.800 431.169 276.938
## ORI_14605_14585 1951.73 378.633 1415.08 182.0470 1135.150 412.085 285.587
## ORI_14607_14586 1947.15 339.365 1681.28 158.7320 1122.940 654.455 360.941
## ORI_14609_14587 1775.37 496.296 1807.91 179.2050 1534.320 494.151 199.516
## ORI_14617_14591 1355.75 627.087 1429.19 123.1450 1773.850 242.745 165.227
## ORI_14623_14594 1062.41 235.126 1246.74 105.4720 1362.050 216.942 332.391
## ORI_14629_14597 1705.30 379.367 2006.78 192.2450 1110.280 363.089 239.030
## ORI_14631_14598 1771.36 392.161 2187.96 196.1630 1050.340 429.185 247.790
## ORI_14633_14599 1737.53 522.485 1426.57 105.1380 1298.640 297.561 340.261
## ORI_14635_14600 1018.26 694.367 1350.39 115.2390 1497.860 317.157 256.468
## ORI_14639_14602 1154.51 351.635 1378.71 130.7300 1549.740 348.120 241.497
##                 [,6318] [,6319]  [,6320] [,6321] [,6322] [,6323]  [,6324]
## ORI_10219_10218 1408.04 508.976  410.826 246.922 217.750 490.917 160.0110
## ORI_10735_10730 1760.09 437.561 1100.870 261.283 446.135 347.640  99.4493
## ORI_14605_14585 1846.55 495.179  580.480 359.370 338.923 275.100 155.2940
## ORI_14607_14586 1720.53 595.301  414.132 170.484 389.297 239.160 175.4960
## ORI_14609_14587 1603.31 423.626  437.944 420.317 406.215 275.561 184.7740
## ORI_14617_14591 2262.42 434.812  748.876 200.905 267.806 230.345 225.5990
## ORI_14623_14594 2098.97 738.993  400.934 220.396 279.681 344.342 201.1610
## ORI_14629_14597 1829.88 652.535  292.810 427.759 262.564 373.092 227.9390
## ORI_14631_14598 1916.19 617.730  667.508 261.529 341.531 309.248 110.7200
## ORI_14633_14599 1795.60 572.556  633.449 602.315 513.575 429.773 172.9960
## ORI_14635_14600 2381.78 564.310  521.715 248.031 378.650 336.180 190.8960
## ORI_14639_14602 1882.97 458.208  575.956 150.328 379.071 413.825 152.4530
##                  [,6325] [,6326]  [,6327] [,6328]  [,6329] [,6330] [,6331]
```

```
## ORI_10219_10218  70.6136 470.078  571.624 375.270  116.773 208.369 440.479
## ORI_10735_10730 238.3600 420.604  948.942 469.706  685.523 215.046 772.252
## ORI_14605_14585 206.4360 486.841  739.555 366.296  205.211 291.370 575.518
## ORI_14607_14586 193.6500 408.051  684.904 363.896  238.325 175.186 723.037
## ORI_14609_14587 250.0020 490.667  943.812 534.479  380.680 256.389 799.766
## ORI_14617_14591  54.0207 570.152  705.683 386.440  144.776 209.647 697.335
## ORI_14623_14594  62.2093 388.711  627.830 329.312  185.375 162.364 536.291
## ORI_14629_14597 154.4270 445.242  757.923 531.458  208.642 303.987 441.470
## ORI_14631_14598 216.0350 447.583  995.995 545.122  347.178 236.868 702.138
## ORI_14633_14599 186.8890 481.370  493.271 478.504  248.913 238.128 727.439
## ORI_14635_14600 104.4210 492.900  634.597 392.532  159.422 330.551 778.335
## ORI_14639_14602 201.2080 359.493  815.538 289.424  271.294 220.931 350.664
##                   [,6332]  [,6333]  [,6334] [,6335] [,6336]  [,6337] [,6338]
## ORI_10219_10218  698.3000 312.4230  856.549 335.401 1659.26 1264.750 2253.86
## ORI_10735_10730  136.0960  61.4723  220.170 648.915 2223.40  954.269 1817.36
## ORI_14605_14585  160.3490  67.4107  377.687 546.549 1956.54 1040.670 2503.13
## ORI_14607_14586  183.8170 128.0670  362.072 451.955 2633.74 1026.030 3119.89
## ORI_14609_14587  151.5480 131.0140  245.856 575.428 2251.37 1014.670 2923.36
## ORI_14617_14591  377.8300 263.0190  889.019 311.337 2594.94  723.539 2670.99
## ORI_14623_14594  276.1720  99.1547  647.907 396.531 1850.61 1038.110 3148.30
## ORI_14629_14597  411.9190  49.9952  240.148 353.922 1834.83  912.796 2675.33
## ORI_14631_14598  230.9620  41.4705  219.136 428.423 2357.18  958.606 2796.97
## ORI_14633_14599  200.7890 150.8450  387.724 715.171 1281.13 1116.460 3740.11
## ORI_14635_14600  246.4920 149.3510  410.383 619.518 3084.63 1518.280 4520.52
## ORI_14639_14602  170.9110  74.5257  509.932 543.226 3045.24 1377.350 2539.25
##                 [,6339] [,6340] [,6341] [,6342] [,6343] [,6344] [,6345]
## ORI_10219_10218 3033.30 4155.37 6199.33 2389.51 3801.03 3835.16 2695.37
## ORI_10735_10730 6138.41 4517.30 6603.42 2554.29 3239.87 4433.67 3023.06
## ORI_14605_14585 4708.86 5187.81 6567.52 2685.57 3440.76 4281.55 3005.26
## ORI_14607_14586 5967.66 5593.98 8605.98 3092.66 3541.10 5000.95 3142.09
## ORI_14609_14587 5129.76 5249.11 8041.93 3181.53 3341.37 4471.75 3266.30
## ORI_14617_14591 4680.89 5338.50 8049.05 2882.42 4172.24 5161.39 2710.54
## ORI_14623_14594 4590.39 4768.42 6660.80 2861.85 3573.47 4155.53 2903.23
## ORI_14629_14597 4150.77 4281.53 5841.94 2367.09 3702.77 3709.68 1952.85
## ORI_14631_14598 4413.33 4796.89 6331.09 2338.50 3197.48 3942.40 2639.44
## ORI_14633_14599 3444.11 4740.45 6499.83 2955.16 3901.54 4584.11 2622.74
## ORI_14635_14600 5704.58 6058.96 7297.12 3723.55 4252.03 5104.45 4184.54
## ORI_14639_14602 5260.09 5747.46 5596.68 3750.53 4181.35 4845.97 2979.00
##                  [,6346] [,6347] [,6348] [,6349] [,6350] [,6351] [,6352]
## ORI_10219_10218 2049.620 4134.15 1721.53 2051.68 7145.52 3098.06 3349.30
## ORI_10735_10730 3081.430 4493.67 1292.89 2223.26 7989.23 4052.94 2930.45
## ORI_14605_14585 2647.010 5146.27 2022.22 2132.77 7147.52 3334.27 3364.92
## ORI_14607_14586 3840.190 5596.20 2104.15 3296.26 7831.94 3383.77 3878.50
## ORI_14609_14587 3632.780 4763.97 1569.74 3122.80 8188.89 3433.44 3598.19
## ORI_14617_14591 3997.540 4378.50 1631.30 2744.01 7314.95 3389.47 3149.02
## ORI_14623_14594 3724.190 4591.81 2258.25 2477.65 6618.04 2838.11 3498.46
## ORI_14629_14597 3278.550 5028.63 1391.57 2962.23 7350.29 1965.45 2829.64
## ORI_14631_14598 3580.420 5101.43 1755.47 2639.30 6658.06 2962.49 3081.74
## ORI_14633_14599 4880.490 5101.68 1714.16 3442.18 7707.29 2908.89 3603.10
## ORI_14635_14600 5711.630 4988.09 2491.66 4079.31 6729.78 4268.94 4246.53
## ORI_14639_14602 5679.890 4047.02 1761.50 2376.04 6848.48 3639.41 3277.44
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## ORI_10219_10218 499.982 3651.48 4372.44 3880.39 3313.69 4760.16 3907.12 6572.96
## ORI_10735_10730 918.544 3768.02 4299.83 4734.37 4388.15 5647.79 4376.04 5625.72
```

```
## ORI_14605_14585 668.066 4023.50 4843.64 4194.87 3393.78 4885.48 4909.14 6570.39
## ORI_14607_14586 494.319 4245.60 5907.18 4372.58 3219.68 6735.31 4587.62 7072.11
## ORI_14609_14587 661.528 4154.40 5126.46 4808.94 3775.75 5487.77 5213.78 7002.83
## ORI_14617_14591 505.039 3458.09 4381.35 3079.35 4091.73 6003.40 4724.41 7096.00
## ORI_14623_14594 482.026 3866.91 4165.63 3314.60 3883.11 5272.17 5002.00 7117.83
## ORI_14629_14597 554.297 4067.51 5339.58 2806.43 2922.20 5049.56 4014.11 5946.19
## ORI_14631_14598 720.906 3967.43 4545.38 4000.92 3621.14 4358.50 3903.57 5825.86
## ORI_14633_14599 585.995 4254.78 6148.06 3367.90 3240.40 6735.10 5997.95 7100.82
## ORI_14635_14600 637.170 5331.77 5323.83 4810.94 5405.16 5986.89 5640.05 7529.41
## ORI_14639_14602 607.136 4740.42 5091.72 3858.55 4086.50 6703.44 5278.94 6956.32
##                 [,6361] [,6362] [,6363] [,6364] [,6365] [,6366] [,6367] [,6368]
## ORI_10219_10218 4860.10 4497.74 3150.06 2081.23 1839.26 1569.19 3233.86 3971.55
## ORI_10735_10730 5821.24 4358.15 3600.90 2276.73 2299.19 1965.49 3700.42 3384.33
## ORI_14605_14585 5056.17 4982.76 3716.99 2439.56 1404.47 2124.66 3998.52 3655.68
## ORI_14607_14586 4714.56 5157.86 3898.34 2734.82 1516.10 2425.84 4536.56 3704.94
## ORI_14609_14587 5258.91 5344.88 3449.70 2521.11 2017.90 2094.32 3860.48 4076.72
## ORI_14617_14591 4985.52 5019.84 3571.11 2377.41 1801.38 1866.61 3114.74 3693.51
## ORI_14623_14594 5373.90 5681.80 3911.97 2491.65 1417.61 2422.72 4691.14 3974.50
## ORI_14629_14597 4237.41 4605.52 3590.85 2450.99 1824.54 1974.11 3528.41 3202.28
## ORI_14631_14598 4561.90 4437.06 3584.40 2152.49 1608.33 1834.67 3386.04 3124.10
## ORI_14633_14599 5074.12 5561.02 3453.82 2607.34 1545.42 2128.42 4228.88 3875.70
## ORI_14635_14600 5841.50 5547.38 4293.96 3883.07 3183.27 3404.84 6412.69 4980.72
## ORI_14639_14602 5701.26 5037.58 3898.46 3148.86 2246.67 2494.75 4697.13 4403.59
##                 [,6369] [,6370] [,6371]  [,6372] [,6373] [,6374] [,6375]
## ORI_10219_10218 8680.74 4387.73 4963.85 136.2260 286.621 3971.95 6750.08
## ORI_10735_10730 6950.49 4059.70 4237.30 243.3750 179.887 4026.91 7285.84
## ORI_14605_14585 8136.74 4503.43 5370.19  63.6875 274.563 4439.05 7055.00
## ORI_14607_14586 7818.36 4551.90 5543.76  92.0582 338.141 5391.30 7730.12
## ORI_14609_14587 7727.89 4441.31 5011.32  47.6085 214.999 4232.59 7458.71
## ORI_14617_14591 7561.16 3765.97 4454.10  64.6045 165.631 6002.27 6875.48
## ORI_14623_14594 8435.37 4635.53 5591.17  54.7529 287.456 4579.84 6913.47
## ORI_14629_14597 7542.86 4826.31 5074.80 122.4720 439.055 4761.42 7112.97
## ORI_14631_14598 7293.15 3898.62 4800.17 152.9820 320.222 3794.25 7073.99
## ORI_14633_14599 8456.47 4834.17 5760.48  44.0250 226.344 5383.67 7656.67
## ORI_14635_14600 8048.39 4871.46 5808.46  54.5296 227.304 6509.82 7098.22
## ORI_14639_14602 8260.24 5756.28 5321.05  69.7631 186.089 5889.86 6577.07
##                 [,6376] [,6377] [,6378] [,6379] [,6380] [,6381] [,6382] [,6383]
## ORI_10219_10218 2577.52 5746.55 4239.96 2884.10 4795.87 3537.00 4358.58 3517.86
## ORI_10735_10730 2629.89 6349.58 5332.54 4970.77 3589.15 6493.61 4737.46 3483.43
## ORI_14605_14585 2657.12 6269.36 5127.61 3635.66 4384.05 5575.85 5178.03 3388.66
## ORI_14607_14586 2768.02 6825.74 5290.16 3976.15 4904.13 6022.74 5043.17 3303.56
## ORI_14609_14587 2743.22 6515.15 5072.76 3287.73 4903.06 5891.89 5482.54 3394.17
## ORI_14617_14591 2858.82 7691.97 5094.06 2909.26 4615.02 5516.13 4145.02 2842.89
## ORI_14623_14594 2666.85 7176.94 5416.98 3575.19 4944.25 5584.74 4427.38 2974.75
## ORI_14629_14597 3452.29 6753.73 4505.24 4229.03 4360.59 6980.36 4512.85 3143.48
## ORI_14631_14598 2788.91 5794.63 4383.17 3979.23 4137.43 5586.58 4369.11 3375.22
## ORI_14633_14599 3083.46 7284.50 5711.31 3624.62 5511.63 7288.87 5733.12 3955.61
## ORI_14635_14600 4160.34 6984.11 6966.41 5155.11 5218.69 6245.47 5560.49 4563.36
## ORI_14639_14602 3445.02 6667.73 6849.66 4041.57 4540.09 6683.36 5638.11 4236.01
##                  [,6384]  [,6385] [,6386] [,6387] [,6388] [,6389] [,6390]
## ORI_10219_10218  576.691 1071.870 395.825 687.232 5660.71 5309.45 3665.33
## ORI_10735_10730 1064.790 1971.510 537.608 358.739 6412.98 5278.54 3606.63
## ORI_14605_14585 1149.030 1799.590 515.903 460.923 6360.54 5220.70 4650.23
## ORI_14607_14586 1629.100 2208.400 441.122 554.657 6906.64 4984.69 4984.39
```

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## ORI_14609_14587 1427.030 1914.370 411.591 565.117 6497.64 5760.23 4657.90
## ORI_14617_14591  968.086 1451.080 349.942 390.172 6543.96 4080.66 4062.14
## ORI_14623_14594  904.396 1555.640 586.193 487.842 6576.48 5137.81 4148.90
## ORI_14629_14597 1504.330 1698.300 447.162 278.526 5100.83 3430.89 3234.07
## ORI_14631_14598 1474.920 2582.940 506.286 472.891 6118.79 4278.78 4124.26
## ORI_14633_14599 1126.200 1287.370 603.633 405.288 6387.19 5441.12 4962.63
## ORI_14635_14600  948.626 1488.010 597.226 521.695 6663.18 5843.55 4867.58
## ORI_14639_14602 1186.130 1567.490 618.052 412.295 6802.77 4302.96 4261.26
##                 [,6391] [,6392] [,6393] [,6394] [,6395] [,6396] [,6397] [,6398]
## ORI_10219_10218 3669.06 4119.57 4836.69 2797.70 3979.67 3519.92 3735.82 4294.57
## ORI_10735_10730 3760.56 4520.17 6358.47 2981.98 4569.54 4346.96 5649.40 6089.12
## ORI_14605_14585 3855.07 4711.23 5574.09 3652.66 4758.57 4322.82 5170.97 5481.89
## ORI_14607_14586 4593.92 5367.47 4973.11 4053.02 5289.37 5204.12 5667.71 4944.69
## ORI_14609_14587 4338.36 4821.26 5576.00 3841.05 5314.85 4714.28 5528.23 5983.08
## ORI_14617_14591 3955.61 4559.50 5113.02 3771.03 4082.97 4764.17 5042.49 4506.26
## ORI_14623_14594 3622.69 3828.82 5360.38 4135.96 4867.66 4574.11 5976.92 4986.85
## ORI_14629_14597 3777.01 3181.56 5241.86 3652.77 3643.51 4194.32 4080.03 3654.69
## ORI_14631_14598 4431.83 4352.15 4765.03 3266.18 4666.70 4129.89 5134.64 4641.55
## ORI_14633_14599 5337.76 5504.78 5567.90 4346.63 4601.16 4124.99 5697.82 4163.09
## ORI_14635_14600 4733.76 5117.38 5679.12 5040.64 5654.79 5242.13 6945.37 5988.04
## ORI_14639_14602 4771.91 5135.96 6592.72 4463.24 6307.79 5035.60 5921.45 4592.77
##                 [,6399] [,6400] [,6401] [,6402] [,6403] [,6404] [,6405] [,6406]
## ORI_10219_10218 2730.25 4181.86 3902.86 6015.46 4925.99 2233.44 1547.66 5110.07
## ORI_10735_10730 5164.39 4272.80 2965.14 5067.42 4579.58 1496.79 2929.19 3865.48
## ORI_14605_14585 4636.39 5012.34 4258.69 6301.64 5138.99 2205.03 1842.03 4415.58
## ORI_14607_14586 4446.88 4901.20 4259.33 6945.31 6380.36 2226.04 3087.39 5125.04
## ORI_14609_14587 4244.57 4915.59 4138.92 6625.14 5007.71 2360.15 2950.19 4949.53
## ORI_14617_14591 4372.56 3958.04 4106.05 6080.91 5218.09 1786.68 2307.17 4184.88
## ORI_14623_14594 4395.91 4701.02 5130.05 6551.15 5163.84 1398.12 3088.28 4497.99
## ORI_14629_14597 4478.07 4652.87 4058.83 6049.82 5206.35 1709.21 2220.88 4000.10
## ORI_14631_14598 4205.57 3908.30 4468.22 5481.74 4007.01 1686.18 2645.55 3666.96
## ORI_14633_14599 4825.13 6316.24 5023.79 7694.61 6036.08 3128.09 2713.42 5488.24
## ORI_14635_14600 5712.88 5053.38 6174.81 7291.11 5237.83 3018.03 4488.56 5460.36
## ORI_14639_14602 5190.87 4996.17 5059.77 6933.00 5384.46 2011.46 3124.74 4513.44
##                 [,6407]  [,6408]  [,6409] [,6410] [,6411] [,6412] [,6413]
## ORI_10219_10218 3557.98  831.807  460.999 4381.09 2395.90 5879.14 4226.83
## ORI_10735_10730 3091.14 1061.920  527.621 4305.12 2600.46 5842.68 4955.98
## ORI_14605_14585 4029.76 1461.550  570.848 4441.19 3392.11 6134.55 5605.05
## ORI_14607_14586 3929.55 2008.090  771.821 5429.65 4117.99 6925.37 5487.37
## ORI_14609_14587 3845.18 1550.300  867.043 4809.77 3132.53 7348.53 5450.81
## ORI_14617_14591 3878.58  892.740  635.252 4912.89 3823.79 6770.96 5522.99
## ORI_14623_14594 3994.66  906.351  535.347 4849.77 3133.92 6470.24 5363.57
## ORI_14629_14597 4131.60 2372.590  541.380 4273.63 3460.36 6654.84 6167.85
## ORI_14631_14598 3062.68 1712.330  661.089 3726.43 3050.42 5848.43 5122.15
## ORI_14633_14599 4784.15  651.555  780.742 5307.98 4210.89 8189.44 5368.53
## ORI_14635_14600 4769.64 1017.050 1046.100 4851.06 4766.23 7323.89 6292.43
## ORI_14639_14602 3915.99 1485.920  803.844 4885.18 3839.04 6809.23 5891.18
##                   [,6414] [,6415] [,6416] [,6417]  [,6418]  [,6419] [,6420]
## ORI_10219_10218 1331.7700 2528.71 5672.84 225.280  925.129 176.7640 410.976
## ORI_10735_10730 2035.5800 4080.02 6131.64 246.599  475.677 275.8780 418.115
## ORI_14605_14585  113.9790 2913.62 6289.56 372.000  550.198 165.3610 472.214
## ORI_14607_14586 2295.3000 2920.34 6447.04 409.305  634.392 254.9130 628.587
## ORI_14609_14587 2256.2400 3426.76 6027.48 308.002  514.719 259.6700 412.043
## ORI_14617_14591 2043.3900 2714.19 6397.11 157.236  532.967 207.6970 340.509
```

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## ORI_14623_14594  158.0220 2930.22 5967.84 154.017  540.031 140.2940 490.362
## ORI_14629_14597  212.9890 2233.63 5826.12 225.745  960.789 249.8660 385.518
## ORI_14631_14598  142.2940 3393.55 5707.89 230.321  491.888 198.4960 383.733
## ORI_14633_14599 1154.7300 2621.66 5002.08 223.151  547.561 222.3950 392.245
## ORI_14635_14600  323.1750 4000.93 7216.50 260.424  369.494 205.3160 378.237
## ORI_14639_14602 3041.0700 2761.42 4799.05 132.434  410.280 164.1890 364.630
##                  [,6421] [,6422] [,6423] [,6424] [,6425] [,6426] [,6427]
## ORI_10219_10218 391.2930 467.569 293.917 258.678 358.585 2441.03 2575.34
## ORI_10735_10730 122.7610 342.151 253.484 175.599 315.578 2638.84 2401.24
## ORI_14605_14585 453.5060 339.061 272.554 235.936 296.376 3024.17 2764.90
## ORI_14607_14586 267.3160 218.722 316.997 234.466 241.752 2811.06 3041.99
## ORI_14609_14587 486.5170 212.467 268.362 189.943 347.456 3379.71 2981.20
## ORI_14617_14591 513.3420 256.318 245.538 128.589 316.585 3289.62 3184.62
## ORI_14623_14594 406.3900 331.842 368.976 185.672 209.659 2960.47 3160.88
## ORI_14629_14597 238.1860 328.264 398.739 287.954 242.807 2780.81 3036.05
## ORI_14631_14598 135.8570 217.385 360.871 205.903 265.005 2689.02 2729.42
## ORI_14633_14599 386.6510 373.102 263.210 267.072 322.204 3710.39 3262.55
## ORI_14635_14600 300.4540 304.262 363.822 224.243 237.179 4609.63 4052.44
## ORI_14639_14602 215.3420 367.859 501.965 177.694 264.414 3644.04 2652.41
##                 [,6428]  [,6429] [,6430]  [,6431]  [,6432]  [,6433]  [,6434]
## ORI_10219_10218 3051.64 1605.940 439.625  474.361 177.5970 171.7100  580.486
## ORI_10735_10730 4294.91 1963.690 591.565  685.019 237.4750 332.0820  357.927
## ORI_14605_14585 3874.29 1493.950 740.344  767.058 205.1870 228.2140  592.167
## ORI_14607_14586 4386.70 1741.980 879.602  203.606 361.7980 222.0290  910.129
## ORI_14609_14587 3971.97 1509.630 973.363  934.513 268.7770 267.5480  692.980
## ORI_14617_14591 3320.27 1792.250 677.156  389.166  86.9897 142.1250  192.561
## ORI_14623_14594 3651.88 1334.670 502.672  380.368  96.9295 149.1620  145.637
## ORI_14629_14597 3018.05 1751.790 771.752  272.863 190.5660 236.8070  592.159
## ORI_14631_14598 3913.19 1616.010 799.588  753.823 233.3200 445.8220  529.352
## ORI_14633_14599 3562.52 1090.050 773.977 1256.000 200.0500 204.3400  460.162
## ORI_14635_14600 4094.03 1179.850 597.902  676.029 109.4930 125.4160  253.271
## ORI_14639_14602 3699.43  927.073 424.373  320.638 125.4800 138.9920  319.560
##                 [,6435]  [,6436]   [,6437]  [,6438]  [,6439] [,6440] [,6441]
## ORI_10219_10218 254.007  343.472   36.8973  93.0625 292.1740 495.737 290.602
## ORI_10735_10730 205.071  666.437  595.0720 126.9920 263.5980 730.754 804.754
## ORI_14605_14585 349.957  421.285  420.3000 142.5750 252.0290 507.804 447.548
## ORI_14607_14586 289.949  333.762   85.0493 172.3610 135.2570 831.468 658.352
## ORI_14609_14587 389.303  664.945  347.4080 276.3130 136.2240 741.814 484.724
## ORI_14617_14591 301.828  324.925   61.6517 207.9980 670.7270 734.692 308.142
## ORI_14623_14594 449.888  336.320  244.8740 126.4270 510.6070 489.266 469.430
## ORI_14629_14597 496.726  414.742  302.6700 242.8800 115.7670 845.003 194.111
## ORI_14631_14598 418.777  629.291  619.0740 261.0600 114.1230 626.801 473.586
## ORI_14633_14599 344.734  488.911  184.7040 217.5010 502.3240 558.484 531.330
## ORI_14635_14600 451.709  447.318  442.8200 234.6640 244.4260 405.483 627.396
## ORI_14639_14602 385.317  774.030  760.9320 178.1840 104.2750 409.673 609.982
##                 [,6442] [,6443]   [,6444]  [,6445]  [,6446] [,6447] [,6448]
## ORI_10219_10218 278.022 344.452 4502.5000  766.569 3886.980 3929.28 414.146
## ORI_10735_10730 460.105 204.821 1102.3700  369.242 2110.950 2855.23 566.438
## ORI_14605_14585 316.117 270.972 1405.8000  463.230 2501.920 3542.40 401.179
## ORI_14607_14586 356.655 159.142 2339.3800  646.614 2480.590 3506.88 781.300
## ORI_14609_14587 465.758 198.330 2102.2400  447.222 2281.120 3370.72 825.698
## ORI_14617_14591 395.844 186.460 4069.3600  692.601 3419.190 3904.89 496.983
## ORI_14623_14594 295.507 290.735 2925.8000  536.996 2632.230 3198.83 352.016
## ORI_14629_14597 391.287 148.503 3839.2200  447.856 2251.190 3062.06 845.597
```

```
## ORI_14631_14598 567.000 286.868  746.1010  437.754 2247.560 3590.12 724.016
## ORI_14633_14599 326.612 215.670 3379.2300  470.248 2981.700 3309.92 519.618
## ORI_14635_14600 412.957 273.766 2377.5100  438.579 2562.280 2926.39 431.518
## ORI_14639_14602 171.577 360.285 2780.9400  415.648 2172.320 3117.73 383.573
##                 [,6449]  [,6450] [,6451] [,6452] [,6453] [,6454] [,6455]
## ORI_10219_10218 2172.71 114.1720 684.167 291.500 592.518 215.836 358.159
## ORI_10735_10730 2462.47 136.7160 581.791 142.821 561.200 834.030 706.860
## ORI_14605_14585 3198.72 149.3820 335.099 213.989 572.022 356.622 377.682
## ORI_14607_14586 3199.95 230.3990 438.598 233.942 459.837 287.999 330.076
## ORI_14609_14587 3237.60 175.4070 362.725 195.624 384.472 539.787 706.662
## ORI_14617_14591 2824.03  58.1318 692.814 402.250 420.045 298.815 429.357
## ORI_14623_14594 2944.29  90.8178 462.529 262.233 449.520 313.554 202.699
## ORI_14629_14597 2736.33 102.8290 362.305 303.307 382.315 373.571 182.593
## ORI_14631_14598 2711.28 159.4950 428.640 214.006 328.898 528.274 740.769
## ORI_14633_14599 2671.34 144.4360 401.171 255.110 596.176 382.903 288.476
## ORI_14635_14600 3228.79 175.4820 374.819 210.186 567.245 359.479 573.221
## ORI_14639_14602 2515.16  84.8062 337.157 271.351 595.980 266.115 324.853
##                 [,6456] [,6457]  [,6458] [,6459]  [,6460] [,6461] [,6462]
## ORI_10219_10218 373.319 701.503  474.163 422.540  560.797 941.733 333.848
## ORI_10735_10730 578.578 750.036  705.340 410.270  949.711 414.973 451.159
## ORI_14605_14585 478.301 747.626  469.969 427.540  850.884 706.811 344.356
## ORI_14607_14586 396.542 621.475 1184.820 433.450  704.641 690.868 496.657
## ORI_14609_14587 692.993 728.286 1333.250 454.816  942.391 769.928 689.259
## ORI_14617_14591 478.671 441.973  671.250 498.190  914.402 715.763 420.330
## ORI_14623_14594 385.292 575.360  578.517 438.747  973.592 615.196 262.684
## ORI_14629_14597 582.960 359.407  581.369 447.859  716.842 444.558 620.716
## ORI_14631_14598 649.893 807.836  932.267 413.768  996.425 544.188 595.300
## ORI_14633_14599 500.645 629.305  489.642 580.594  892.532 321.681 457.965
## ORI_14635_14600 449.767 631.262  357.755 570.136 1032.380 360.086 390.252
## ORI_14639_14602 440.467 503.814  511.163 494.210  795.944 316.375 486.161
##                  [,6463]   [,6464]   [,6465]  [,6466]   [,6467]  [,6468]
## ORI_10219_10218 172.0890  452.1200 2029.4100  712.790  381.9750  876.205
## ORI_10735_10730  81.1242   62.9351  172.2920 4250.010 1672.7600  966.002
## ORI_14605_14585 148.8790  187.9890 1486.8200 1981.910 1569.3800  900.907
## ORI_14607_14586 102.3120  363.3490 1095.1900 3084.840 2757.3800 1079.720
## ORI_14609_14587 141.9770  654.9600  876.1660 3336.080 1936.0500 1298.550
## ORI_14617_14591 131.0310  282.4270 1506.8900  447.521  184.7370 1011.340
## ORI_14623_14594 161.3920  228.5110 1273.3600  599.294  353.6520  786.737
## ORI_14629_14597  65.0203 1769.4100  420.7480 1679.520  774.0780 1247.750
## ORI_14631_14598 109.6820  468.1420  683.4870 2993.210 1664.6000 1032.060
## ORI_14633_14599  88.2919  102.0390  904.7790  610.554  528.9040  337.564
## ORI_14635_14600  77.2959  113.4830  816.7950  532.442  325.7830  499.790
## ORI_14639_14602  41.7273  243.3660  323.0370 1182.580  633.5090  231.902
##                   [,6469]  [,6470]   [,6471]   [,6472]  [,6473]   [,6474]
## ORI_10219_10218   54.3641 1317.690 1361.5900  392.2550 2364.720  142.0750
## ORI_10735_10730  288.3400 3414.600 1447.7800  495.4620 1122.410  254.3470
## ORI_14605_14585  202.7260 2454.320  321.8420  151.8950 2011.830   94.4555
## ORI_14607_14586 1686.4700 3207.240 4848.3700 2404.8900 1675.970  681.5660
## ORI_14609_14587  604.4240 2819.820 1263.5200  518.5340 3133.340 2292.4900
## ORI_14617_14591   24.6827 1027.970   59.0855   33.1022 1501.080  103.1880
## ORI_14623_14594   55.1251  936.969   56.7299   27.2580 1117.250  135.5930
## ORI_14629_14597  167.9480 1153.840  550.4510  253.4990 1640.220  154.2500
## ORI_14631_14598  363.8460 2057.870 1639.6500  781.9300 3127.470  423.7090
## ORI_14633_14599   88.3031 2789.230  573.8680  176.8710 1687.130  132.1580
```

```
## ORI_14635_14600   24.6827  846.603   24.6827   24.6827 1394.190  111.1710
## ORI_14639_14602   92.3139 1438.080  317.7130  125.0990 1950.780  139.3760
##                   [,6475] [,6476] [,6477] [,6478]  [,6479]  [,6480] [,6481]
## ORI_10219_10218   24.6827 251.580 445.441 526.424  664.295  893.199 463.481
## ORI_10735_10730  123.6360 244.779 426.981 659.143  800.883 1139.910 516.525
## ORI_14605_14585   24.6827 300.715 357.320 585.198  653.264 1027.650 561.610
## ORI_14607_14586  318.8180 236.479 405.460 401.577  514.503  941.497 390.334
## ORI_14609_14587 1665.4000 268.172 617.790 593.465  905.963 1113.210 807.723
## ORI_14617_14591   24.6827 164.179 462.578 857.840  763.352 1288.620 591.887
## ORI_14623_14594   24.6827 331.613 306.993 549.158  579.684 1090.160 561.538
## ORI_14629_14597   24.6827 398.892 290.102 671.131  345.271  975.972 661.179
## ORI_14631_14598  180.9600 269.118 458.941 622.569  748.205  868.708 730.922
## ORI_14633_14599   24.6827 291.215 409.355 541.429  515.761 1052.540 560.797
## ORI_14635_14600   24.6827 332.322 425.633 770.280  601.988 1192.290 662.538
## ORI_14639_14602   24.6827 298.543 316.364 347.415  634.452 1169.770 577.616
##                  [,6482]  [,6483]  [,6484] [,6485]  [,6486] [,6487]  [,6488]
## ORI_10219_10218 227.3100  491.734  280.097 477.796 133.9040 263.018  751.592
## ORI_10735_10730 391.6200  920.292 1211.620 513.338 287.9070 393.382  812.323
## ORI_14605_14585 323.4880  886.592  624.127 397.082 385.1080 363.500 1302.080
## ORI_14607_14586 120.9330  575.815  927.428 347.961 637.4390 244.092 1408.590
## ORI_14609_14587 399.4220 1072.520  883.706 311.513 570.5130 349.693 1401.890
## ORI_14617_14591 267.5420  992.885  746.400 252.931  62.8395 471.515 1198.620
## ORI_14623_14594 228.3060  681.770  397.955 303.496  77.1618 369.811 1052.090
## ORI_14629_14597 563.1120  920.949  620.221 301.765 117.3790 425.632  869.678
## ORI_14631_14598 312.5940  606.186  586.684 301.379 342.0710 472.876 1338.880
## ORI_14633_14599 265.1340 1067.080  531.729 381.742 168.0430 492.239 1462.240
## ORI_14635_14600 348.8050  659.281  449.169 317.520 153.1880 368.809 1204.220
## ORI_14639_14602 496.5720  670.704 1140.580 341.361  66.3362 386.501 1201.570
##                 [,6489] [,6490] [,6491]  [,6492]  [,6493]   [,6494]  [,6495]
## ORI_10219_10218 627.269 366.468 332.104 212.9260 1366.760  124.0150 259.6740
## ORI_10735_10730 481.090 389.419 381.133 290.4180 1227.880  391.5520 206.9370
## ORI_14605_14585 640.341 499.495 342.214 230.0470 1021.960  202.8570 127.3880
## ORI_14607_14586 800.670 317.794 251.499 212.4660 1181.750  836.0790 190.0010
## ORI_14609_14587 472.561 500.133 224.144 201.7690  954.994  701.4410 280.1020
## ORI_14617_14591 707.516 194.219 321.256 188.5050 1464.190  119.5560 133.7930
## ORI_14623_14594 385.604 211.414 424.015 315.3540  977.372  105.0610 194.0190
## ORI_14629_14597 820.874 392.723 383.662 336.3610 1117.860  119.0230 384.7640
## ORI_14631_14598 672.240 541.104 362.186 251.2630 1188.450  438.1040 294.7060
## ORI_14633_14599 764.049 263.093 370.185 307.3670 1101.220  318.1340 181.2930
## ORI_14635_14600 479.101 245.498 426.155 271.2470  959.989  183.4270 141.0850
## ORI_14639_14602 557.788 234.969 447.809 190.9590 1443.780  114.4650 163.4780
##                  [,6496] [,6497]  [,6498] [,6499]  [,6500]  [,6501]  [,6502]
## ORI_10219_10218  367.397 212.305 1516.380 2518.95  924.234 402.1910  91.0998
## ORI_10735_10730  424.063 292.197  988.864 3096.02  612.882 446.5370 400.6230
## ORI_14605_14585  353.799 227.795 1737.830 3332.46  654.573 225.3120 208.5700
## ORI_14607_14586  492.703 402.340 1526.120 4151.30  994.288 222.3880 152.2070
## ORI_14609_14587  635.068 458.765 1658.420 3901.29  766.881 510.8840 553.8950
## ORI_14617_14591  254.482 284.591 2407.820 1895.85 1817.260 486.7040 172.6630
## ORI_14623_14594  318.631 139.373 2161.830 2433.99 1250.780 272.7040 149.9140
## ORI_14629_14597  727.811 231.577 2676.150 2124.13  335.051 478.4360 197.9710
## ORI_14631_14598  762.070 408.846 2209.460 3847.76  559.809 318.9240 325.1380
## ORI_14633_14599  604.472 156.896 1487.800 2904.24 1110.310 424.2590 323.6070
## ORI_14635_14600  359.651 266.032 1489.950 2525.29 1129.740 320.6070 246.0900
## ORI_14639_14602  171.538 276.940 1279.350 2973.20  827.727 503.0060 157.6300
```

```
##                  [,6503]  [,6504]  [,6505] [,6506] [,6507] [,6508]  [,6509]
## ORI_10219_10218  883.352  782.739  752.430 309.433 196.539 526.805 447.8100
## ORI_10735_10730  573.501  514.088  850.376 391.427 314.015 795.978 201.0550
## ORI_14605_14585  433.488  618.486  596.788 411.742 314.573 703.903 249.4530
## ORI_14607_14586  310.343  556.720  573.794 395.303 476.323 659.955 169.8160
## ORI_14609_14587  718.056  673.796  818.231 623.245 535.257 471.507 208.2570
## ORI_14617_14591  397.778  799.627 1128.990 456.219 440.940 470.810 295.7690
## ORI_14623_14594 1298.280 1017.370  691.061 336.174 334.542 614.718 333.0330
## ORI_14629_14597  871.123  741.888  654.831 699.630 289.736 745.218 230.3930
## ORI_14631_14598  854.168  915.353  705.053 519.125 383.356 600.292 201.5060
## ORI_14633_14599 1188.660 1142.060  526.262 439.087 420.881 446.989 264.7190
## ORI_14635_14600  421.178  533.348  631.360 489.285 529.187 484.344 276.4330
## ORI_14639_14602  460.370  537.568  576.881 396.267 314.310 663.510 252.3960
##                 [,6510]  [,6511] [,6512]   [,6513] [,6514] [,6515]  [,6516]
## ORI_10219_10218 521.470  564.626 373.619 1425.8300 477.526 421.745  82.6143
## ORI_10735_10730 513.259  758.121 593.070  266.1270 465.899 539.186 323.7330
## ORI_14605_14585 573.685  655.984 336.213  436.4440 472.862 516.753  55.2505
## ORI_14607_14586 728.597  719.242 230.943  506.4890 586.310 587.733 165.5570
## ORI_14609_14587 542.748  528.745 288.580  378.8670 575.005 589.985 362.5440
## ORI_14617_14591 346.718  649.185 147.614 1353.1500 595.275 572.847  62.3325
## ORI_14623_14594 368.726  541.340 157.556  705.8630 617.351 497.011  63.0008
## ORI_14629_14597 405.341  691.253 375.584  314.1530 607.964 687.926 133.9890
## ORI_14631_14598 422.415  897.191 252.184  458.0080 660.353 581.354  86.4936
## ORI_14633_14599 616.614  632.754 272.423  545.9420 639.734 547.861  97.0227
## ORI_14635_14600 430.557  715.139 202.729  609.9850 619.526 472.913  62.3075
## ORI_14639_14602 449.981  646.699 316.698  705.4720 954.784 417.708  60.2399
##                  [,6517] [,6518]  [,6519]  [,6520] [,6521] [,6522]  [,6523]
## ORI_10219_10218  522.755 406.018  761.279 3555.990 811.239 341.462  500.398
## ORI_10735_10730 1728.400 551.421  837.097 1667.960 220.360 461.623  622.065
## ORI_14605_14585  863.294 505.841  653.462 4326.140 419.400 351.543  265.306
## ORI_14607_14586  947.266 479.991  690.785 1490.190 789.556 511.003  750.222
## ORI_14609_14587  605.818 499.406  623.230 2851.600 245.079 539.471  833.121
## ORI_14617_14591  858.640 317.743  629.636 3070.250 287.784 484.702  729.793
## ORI_14623_14594  537.055 576.531  645.084 3924.340 429.417 303.071  321.823
## ORI_14629_14597 1053.460 754.241  669.618 3015.620 711.979 306.188 1829.570
## ORI_14631_14598 1179.980 870.711  812.829 1743.180 328.127 330.150  478.180
## ORI_14633_14599  466.037 617.710  689.243 1819.890 662.988 395.246  764.682
## ORI_14635_14600  406.377 503.195  803.626 2751.240 440.535 419.612  181.371
## ORI_14639_14602  484.226 354.036  693.463 1435.600 363.981 287.230  351.393
##                   [,6524]  [,6525]  [,6526]   [,6527]  [,6528] [,6529] [,6530]
## ORI_10219_10218  387.3400 133.6600 2004.990  438.0460 105.6630 270.062 423.945
## ORI_10735_10730  127.6630 141.8320 1484.930  348.5970 215.7650 272.045 282.978
## ORI_14605_14585  164.8890 184.9340 2072.640  569.9840 218.8000 360.376 346.880
## ORI_14607_14586  190.3810 219.5670  920.740  490.3230 179.2570 273.394 469.368
## ORI_14609_14587  177.2620 115.8930 1350.410  684.1130 309.8210 362.125 210.032
## ORI_14617_14591  462.0370  74.4984 1650.440  312.6340 140.7070 213.130 287.547
## ORI_14623_14594  273.0730 154.2210 1462.170  532.9180 110.3530 253.594 610.971
## ORI_14629_14597  172.2840 106.2200 2784.100  488.1640 197.0840 323.426 689.264
## ORI_14631_14598  334.5850 112.2710 1523.700  552.9900  97.2245 252.578 381.074
## ORI_14633_14599  447.1160 237.9970 2110.360  621.4270 213.0020 366.939 451.316
## ORI_14635_14600  359.3990  79.6268 1504.540  516.0340 100.0940 287.687 676.946
## ORI_14639_14602  754.5320 171.0640 1577.470  611.5150 225.9510 377.795 609.635
##                  [,6531]  [,6532]   [,6533]   [,6534]   [,6535] [,6536] [,6537]
## ORI_10219_10218 390.6590 1103.630  749.2760  307.2470  994.8530 381.250 198.310
```

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## ORI_10735_10730 545.4470  350.700   76.9828  692.2440   70.8499 418.258 252.769
## ORI_14605_14585 248.7900  580.972   34.2874  359.0070   66.6492 462.362 230.980
## ORI_14607_14586 181.4390  683.411  199.9470  155.4660  330.8470 464.631 544.818
## ORI_14609_14587 208.5630  430.438  105.9310  419.0060  121.3440 443.276 429.954
## ORI_14617_14591 469.6980  919.943  381.7310  640.1990 1174.8700 387.528 162.470
## ORI_14623_14594 158.7550  445.595  312.4600  479.5350  556.7720 406.485 183.801
## ORI_14629_14597  44.9717  127.975   74.0786   79.5210   37.2149 354.778 194.625
## ORI_14631_14598 171.3260  334.041  130.1660  418.3360  112.4050 421.182 265.461
## ORI_14633_14599 363.7190  400.303  135.5160  767.3580  211.3480 495.906 197.291
## ORI_14635_14600 337.3740  608.758  124.3260  497.5720  252.7410 508.399 175.653
## ORI_14639_14602 512.9140  474.315   69.7654  469.1880  202.0850 369.950 197.326
##                  [,6538] [,6539]  [,6540] [,6541]  [,6542]   [,6543] [,6544]
## ORI_10219_10218  851.139 350.409 2965.150 280.400 2369.550   93.5635 241.917
## ORI_10735_10730 1259.840 385.087 3347.540 395.909 2165.490  324.7900 470.186
## ORI_14605_14585 1130.380 540.682 2511.520 320.278 2153.260  349.5100 346.740
## ORI_14607_14586  885.831 615.427  930.589 145.997 1610.870   92.5620 462.766
## ORI_14609_14587 1727.000 638.841 2796.270 379.229 2366.710  142.1190 455.669
## ORI_14617_14591  724.286 240.699 1216.760 351.939 2263.600   75.4109 227.049
## ORI_14623_14594  878.745 199.738 2470.500 443.762 1844.500  104.6900 319.497
## ORI_14629_14597 1038.370 290.243 1263.530 424.790 2564.880  228.6520 394.589
## ORI_14631_14598 1314.020 417.859 2701.720 348.061 2928.810  156.0590 369.750
## ORI_14633_14599 1303.130 307.901 3204.860 298.135 1532.630  770.5210 520.747
## ORI_14635_14600  996.997 245.640 2496.690 375.444 1449.570  266.8630 392.546
## ORI_14639_14602  541.496 181.729 2678.190 303.207 1528.120   91.0032 288.470
##                  [,6545]  [,6546]  [,6547]  [,6548]   [,6549] [,6550] [,6551]
## ORI_10219_10218  673.115  477.756 103.0870 1019.460 1000.9500 1686.61 566.432
## ORI_10735_10730  661.948  827.553 160.7540 2095.990  412.3320 3096.81 419.254
## ORI_14605_14585  787.995  796.098 118.4660 1540.750  541.6790 2320.45 482.057
## ORI_14607_14586  703.397  936.434 118.6480  902.974  569.6180 3332.23 477.609
## ORI_14609_14587  632.936  723.621  86.9782 1215.560 1292.2100 3080.41 665.385
## ORI_14617_14591  683.084  783.058  81.2189  806.406  402.2530 1584.75 665.742
## ORI_14623_14594  789.273  755.009 120.2830  961.153  501.3840 1448.61 303.441
## ORI_14629_14597  970.072  985.008  93.8147 2048.890 1145.0000 3493.43 353.794
## ORI_14631_14598  688.787  818.447 154.7930 2301.090 1559.0500 2964.21 328.622
## ORI_14633_14599  717.007  785.766  90.6561 1325.570  242.3310 2991.21 415.743
## ORI_14635_14600  743.870 1139.440 103.1450  374.054  197.4160 1613.93 419.793
## ORI_14639_14602  678.350  964.796 139.5130 1209.930  174.2640 1733.78 351.506
##                 [,6552] [,6553] [,6554]  [,6555] [,6556]  [,6557] [,6558]
## ORI_10219_10218 201.805 473.444 402.436 204.5780 3901.41 1404.560 394.413
## ORI_10735_10730 375.353 473.709 547.516 276.1980 1821.31 1051.580 405.709
## ORI_14605_14585 266.505 506.053 391.459 272.7520 2087.05 1018.920 395.220
## ORI_14607_14586 218.558 472.592 497.673 385.5220 2773.66 1269.820 450.439
## ORI_14609_14587 340.308 512.535 381.286 311.8770 2900.67 1002.900 444.329
## ORI_14617_14591 238.144 823.067 315.107 139.4400 3741.91 1493.700 382.195
## ORI_14623_14594 245.226 449.311 343.464 173.2120 3201.75 1222.850 224.411
## ORI_14629_14597 311.642 807.920 486.207 271.6500 2538.57 1039.560 291.552
## ORI_14631_14598 281.428 299.744 463.383 346.8340 2609.37 1155.660 418.011
## ORI_14633_14599 297.811 709.340 361.421 213.5070 2397.07 1206.290 535.829
## ORI_14635_14600 398.370 666.622 371.845 122.1090 2307.18 1255.150 360.291
## ORI_14639_14602 291.353 689.367 310.610 261.8850 2341.95 1216.230 209.347
##                  [,6559]  [,6560] [,6561]  [,6562]  [,6563]  [,6564] [,6565]
## ORI_10219_10218  609.130  416.431 873.594 159.5760 1727.950  88.7070 463.078
## ORI_10735_10730  935.132  578.833 510.741 110.9400  487.439 204.6940 522.768
## ORI_14605_14585  750.575  499.851 320.185 144.9600  449.761  65.7672 286.883
```

```
## ORI_14607_14586  907.949  600.511 354.791 202.3430  954.937  88.2893 288.750
## ORI_14609_14587  865.870  816.374 266.385 171.7960  758.227 244.7450 452.015
## ORI_14617_14591  514.292  402.702 206.251 274.0250 1728.270  45.2931 536.032
## ORI_14623_14594  637.557  336.000 399.156 134.4710 1012.910  44.4120 337.065
## ORI_14629_14597  769.432  436.549 447.249 104.8500  558.246  32.5287 355.095
## ORI_14631_14598 1026.520  655.707 493.480 254.5140  575.847  40.1736 574.412
## ORI_14633_14599  819.233  967.332 324.048 157.4080  580.237 289.3790 411.348
## ORI_14635_14600  695.376  620.164 339.947 114.1040  703.120 114.2930 457.554
## ORI_14639_14602  608.991  479.362 431.280 124.0200  695.084 145.5530 238.905
##                  [,6566]  [,6567] [,6568] [,6569]  [,6570] [,6571] [,6572]
## ORI_10219_10218  404.135 175.4790 283.961 387.926  625.446 282.567 420.837
## ORI_10735_10730  929.687 223.9790 609.308 589.128  557.915 379.503 505.028
## ORI_14605_14585  857.439 122.7040 262.289 358.077  629.553 320.665 373.899
## ORI_14607_14586  957.626 201.7640 288.763 644.624  616.407 367.788 476.026
## ORI_14609_14587  672.431 241.1900 499.480 658.533  789.022 513.433 630.177
## ORI_14617_14591  603.395 101.9300 380.357 677.682  507.790 333.728 435.891
## ORI_14623_14594  533.978  93.1621 279.015 362.934  542.115 190.689 339.414
## ORI_14629_14597  571.287 193.4940 199.081 382.485  668.527 562.600 465.484
## ORI_14631_14598  883.172 417.0860 488.590 404.143  840.018 566.657 487.010
## ORI_14633_14599  811.628 151.6700 335.528 276.862  860.718 422.376 445.588
## ORI_14635_14600  661.127 169.8270 152.278 353.673  782.523 434.260 539.881
## ORI_14639_14602  912.629 127.1830 271.510 454.719  362.300 421.420 525.691
##                 [,6573]  [,6574]  [,6575] [,6576]  [,6577]  [,6578]  [,6579]
## ORI_10219_10218 283.254  83.1132  659.294 308.257  735.658  262.256 375.0720
## ORI_10735_10730 355.496 130.5130  898.628 223.421 1010.160 1077.390 290.3080
## ORI_14605_14585 369.050  65.6307  879.618 498.237  977.076  524.674 336.5120
## ORI_14607_14586 593.937 163.3510 1290.810 222.177  866.205  702.198 177.6730
## ORI_14609_14587 289.536 201.1140 1166.500 218.026 1151.370  696.165 183.7200
## ORI_14617_14591 493.324  24.6827  799.327 268.210 1168.510  433.637 246.3890
## ORI_14623_14594 303.531  34.3216  610.228 283.409  878.966  301.692 499.4200
## ORI_14629_14597 488.521  52.4946  883.999 269.804  831.969  645.312 158.3670
## ORI_14631_14598 355.882 159.7850 1039.560 240.223 1128.550 1028.220 142.1460
## ORI_14633_14599 453.185  50.4250  616.591 306.808  970.630  505.690 268.4260
## ORI_14635_14600 434.042  44.1162  952.736 532.888 1059.940  534.001 441.1490
## ORI_14639_14602 485.576 110.0820  957.312 270.856  694.704  883.420 285.0070
##                 [,6580]  [,6581]  [,6582] [,6583]  [,6584] [,6585] [,6586]
## ORI_10219_10218 1088.96  734.700 274.2140 278.913  71.4054 306.908 204.868
## ORI_10735_10730 1711.23 4381.910 242.3350 218.275 256.8630 273.915 408.315
## ORI_14605_14585 1670.86 2247.720 246.7930 316.615  85.9706 282.113 218.555
## ORI_14607_14586 1925.96 1699.910 223.9890 312.263 486.5750 191.488 234.056
## ORI_14609_14587 1930.67 5314.020 363.9400 402.027 352.0860 324.418 361.394
## ORI_14617_14591 1077.30  710.019 357.5910 347.386  24.6827 388.666 141.427
## ORI_14623_14594 1329.22  789.602 185.0400 255.200  24.6827 279.126 210.481
## ORI_14629_14597 1187.22 1212.300 218.4610 348.047  71.4211 325.341 205.374
## ORI_14631_14598 1816.12 1857.190 320.1990 284.965 176.3320 321.555 250.822
## ORI_14633_14599 1715.68 1274.870 179.4860 350.084  81.4578 317.210 211.477
## ORI_14635_14600 1376.20 1144.160 288.9970 304.662  26.0947 354.488 237.603
## ORI_14639_14602 2142.51 1217.040 195.4130 371.676  55.6555 340.542 218.990
##                 [,6587]  [,6588]  [,6589]   [,6590] [,6591]  [,6592]  [,6593]
## ORI_10219_10218 686.427  69.1005 291.3570  194.8910 218.157 441.4600  449.137
## ORI_10735_10730 745.907  44.7480 114.6920  134.7830 138.749 224.2130 1220.430
## ORI_14605_14585 713.618  34.5316 287.8340  182.5080 240.373 387.8050  730.002
## ORI_14607_14586 751.459  69.2421 320.7250  188.8090 202.819 659.4520 1327.080
## ORI_14609_14587 765.128  59.9063 213.3650  210.2020 189.093 443.1570 1073.070
```

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## ORI_14617_14591 698.339  47.6833 208.2540   85.0947 117.451 156.3560  597.074
## ORI_14623_14594 639.291  58.6502 166.2600   94.8251 200.135 201.9760  495.075
## ORI_14629_14597 752.674  74.1013  58.7461  135.6080 215.805 191.7650 1224.530
## ORI_14631_14598 654.505  48.0207 263.2450  528.5780 198.897 295.9070 1030.220
## ORI_14633_14599 702.988  78.5203  77.4777  219.8730 228.405 242.6420 1128.130
## ORI_14635_14600 667.685  81.6868 102.3300  165.5380 238.310 143.8580  585.539
## ORI_14639_14602 598.688  43.0994  33.6427  163.8950 195.380  85.0692  903.640
##                  [,6594]  [,6595]  [,6596] [,6597] [,6598]  [,6599] [,6600]
## ORI_10219_10218 126.2760 359.8480 181.9070 380.767 257.302  854.702 708.750
## ORI_10735_10730 156.9670  63.2997  53.5319 380.726 188.983  566.417 211.979
## ORI_14605_14585 107.5160 446.3650 212.6340 325.124 234.209  910.120 545.806
## ORI_14607_14586  67.5667 195.7360 495.0330 369.296 406.280  596.455 399.429
## ORI_14609_14587 103.3560 207.7730 121.7660 305.353 162.831  723.260 520.183
## ORI_14617_14591  73.0918 155.4760 210.4870 258.276 359.639  753.152 554.735
## ORI_14623_14594 128.9740 112.4530  84.4627 371.636 503.403  790.560 303.578
## ORI_14629_14597 256.0640  65.0294  32.2926 420.930 277.063  642.027 220.497
## ORI_14631_14598  78.9066  80.8819 136.6020 384.234 207.567  840.217 257.781
## ORI_14633_14599 102.7110  72.2194  48.3689 399.488 308.466  556.009 237.598
## ORI_14635_14600 138.9170 123.7040  76.3415 368.851 304.296  873.814 297.444
## ORI_14639_14602  91.9761  49.9352  53.4324 540.785 202.703  678.259 230.158
##                  [,6601]  [,6602] [,6603] [,6604] [,6605] [,6606] [,6607]
## ORI_10219_10218  615.388 585.2410 296.500 278.317 230.398 214.817 486.977
## ORI_10735_10730 1124.160 316.2640 178.633 173.387 327.035 334.372 570.185
## ORI_14605_14585  570.502 413.8380 223.129 295.131 274.337 247.124 509.313
## ORI_14607_14586  496.436 296.0840 220.591 168.969 285.421 256.643 351.910
## ORI_14609_14587  587.479 480.1770 145.603 270.613 232.706 231.175 610.700
## ORI_14617_14591  379.025 445.3190 246.298 152.542 193.560 264.050 348.448
## ORI_14623_14594  742.904 514.3950 243.602 251.920 256.505 191.515 503.342
## ORI_14629_14597 1881.340 723.0390 178.561 484.732 321.923 254.045 343.070
## ORI_14631_14598  912.449 206.2340 169.933 166.078 180.109 288.494 419.038
## ORI_14633_14599 1621.070 850.5610 228.879 254.724 335.817 297.360 600.242
## ORI_14635_14600  199.725 343.4130 175.293 300.635 290.623 227.944 653.763
## ORI_14639_14602 2847.890 392.7980 193.434 254.068 278.773 161.737 479.423
##                  [,6608] [,6609]  [,6610]  [,6611] [,6612]  [,6613]  [,6614]
## ORI_10219_10218  281.346 614.026 2777.860 2927.000 299.121 253.7900 1222.290
## ORI_10735_10730  499.498 488.102  628.845 2119.830 361.366 311.3330 1828.790
## ORI_14605_14585  559.366 505.315 2333.800 2304.440 415.093 275.3170 2201.290
## ORI_14607_14586  416.213 675.709 3318.130 1788.200 500.504 116.1480 2579.030
## ORI_14609_14587  437.641 787.220 2232.460 2139.040 422.081 251.0690 2219.780
## ORI_14617_14591  524.674 603.952 1244.660 2323.580 246.004 230.3660  959.836
## ORI_14623_14594  845.812 377.000 1157.760 1894.780 341.593 185.8590 1183.210
## ORI_14629_14597  337.225 716.014  698.539 1164.450 320.213 148.8700 1469.190
## ORI_14631_14598  379.263 728.836 2713.380 1546.720 482.375 204.5350 2086.920
## ORI_14633_14599  629.071 510.451 1100.790 1478.540 347.568 192.4400 1338.800
## ORI_14635_14600  891.805 442.889 1827.300 1318.180 340.774 343.0540 1351.680
## ORI_14639_14602  519.177 490.204  487.736 1085.490 243.821 174.7030 1311.260
##                  [,6615]   [,6616]   [,6617]  [,6618]  [,6619]  [,6620]
## ORI_10219_10218  639.554  125.7150 2253.8500 130.6120 147.9040  783.071
## ORI_10735_10730 1029.030  280.4920 3324.0500 110.3620 211.9960 1287.350
## ORI_14605_14585  924.778   79.8609 3019.3900 184.9290 191.3520 1141.600
## ORI_14607_14586 1490.310  647.5110 3454.2100 118.3180 394.5550  951.085
## ORI_14609_14587 1248.130  405.9560 5198.3700 164.2990 399.1670 1154.210
## ORI_14617_14591  534.637   24.6827  400.6850  60.1753  64.9674  416.224
## ORI_14623_14594  518.079   37.5815  793.0090 205.9190  76.2873  380.352
```

```
## ORI_14629_14597  902.809  104.8400 2727.1000 160.3350 118.8780  696.602
## ORI_14631_14598 1100.430  298.0550 5334.1300 162.4680 227.2380 1095.600
## ORI_14633_14599 1028.200  196.7200 4349.4600 126.6270 158.9770  536.407
## ORI_14635_14600  805.044   83.5492  572.3060 177.4040  99.5108  325.208
## ORI_14639_14602  732.520   31.4009 3731.8500 129.2000  73.1696  986.135
##                  [,6621]   [,6622]  [,6623]  [,6624]   [,6625]   [,6626]
## ORI_10219_10218 461.8200  329.8000 1623.600  908.964  395.0750   24.6827
## ORI_10735_10730 319.1920  766.6800 1386.270  512.152  825.9090  651.2410
## ORI_14605_14585 229.2420  173.3730 1085.090  964.881  729.0990  137.6650
## ORI_14607_14586 453.8160 1546.7500 2027.200 2311.230 1749.5300 1010.7100
## ORI_14609_14587 644.7710  669.4050 1355.120  612.865 2418.0500  203.5600
## ORI_14617_14591 255.5540  101.9930 2562.200  572.423  260.5220   24.6827
## ORI_14623_14594 213.2660  180.0360 2375.620  695.121  211.7200   24.6827
## ORI_14629_14597 179.1210 1264.6200 2604.690  283.831  270.0390  337.9750
## ORI_14631_14598 422.0460 1502.4200 2040.700  694.557  985.9750  561.2140
## ORI_14633_14599 350.0680   61.6286 1742.760  320.986  267.3140   24.6827
## ORI_14635_14600 199.7750   94.1119 1628.590  863.919  177.4570   24.6827
## ORI_14639_14602 117.0850  291.8150 2147.370  228.543  293.5280  140.5800
##                   [,6627] [,6628]  [,6629]  [,6630] [,6631] [,6632]   [,6633]
## ORI_10219_10218 1913.8300 274.840  708.903 1297.470 508.832 268.132  210.1120
## ORI_10735_10730   71.5629 355.142  268.676 1861.430 752.743 381.781  123.6040
## ORI_14605_14585  437.0670 317.203  732.573 1629.970 537.149 351.293  187.7200
## ORI_14607_14586  806.8720 233.213  777.022 1152.790 532.073 289.381  100.4450
## ORI_14609_14587  376.6280 317.223  562.159 1557.170 494.845 331.797  170.5580
## ORI_14617_14591 2281.1800 156.812  557.241 1395.500 717.966 315.582  537.6090
## ORI_14623_14594  858.5770 149.913  437.936 1555.960 671.397 329.095  214.4720
## ORI_14629_14597  299.8400 555.837  238.747 1188.850 591.914 371.863  114.5430
## ORI_14631_14598  334.7920 284.255  407.713 1435.830 316.307 271.167  328.7430
## ORI_14633_14599  366.7650 192.806  499.626 1387.810 759.372 426.201  377.5390
## ORI_14635_14600  873.0260 187.254  695.282 1415.420 560.751 501.031  271.0070
## ORI_14639_14602  394.1150 503.630  226.690 2138.930 480.608 374.674  343.7300
##                  [,6634]  [,6635] [,6636] [,6637]  [,6638]  [,6639] [,6640]
## ORI_10219_10218 1445.550  764.113 387.344 341.503  902.011  561.429 191.551
## ORI_10735_10730 1444.630  630.113 468.407 452.516  724.881  889.234 397.314
## ORI_14605_14585 1519.630  703.841 384.116 375.625  881.040  826.241 339.515
## ORI_14607_14586 1347.060  520.228 415.693 321.068  849.332  761.394 272.549
## ORI_14609_14587 1594.490  339.083 407.703 538.537  837.856 1087.830 342.173
## ORI_14617_14591 1633.550  416.286 294.176 413.613  512.792  860.453 244.685
## ORI_14623_14594 1662.740  819.543 377.872 222.164  792.375  763.762 281.930
## ORI_14629_14597 1438.900  659.997 476.754 347.894 1077.570  708.049 236.607
## ORI_14631_14598 1408.080  476.851 422.522 365.056 1132.840  943.436 392.600
## ORI_14633_14599 1608.930  622.413 546.309 396.212  707.636 1243.070 269.255
## ORI_14635_14600 1420.380  643.591 504.659 381.070  700.573 1281.060 507.078
## ORI_14639_14602 1284.390  487.473 570.020 210.369  605.083  867.426 269.682
##                 [,6641]  [,6642]  [,6643] [,6644] [,6645]  [,6646] [,6647]
## ORI_10219_10218 303.881  671.006  801.975 192.118 428.294  762.819 269.606
## ORI_10735_10730 553.643 1088.050  724.229 275.108 227.327  998.725 135.597
## ORI_14605_14585 392.887 1072.450  868.323 260.772 433.954 1026.820 300.634
## ORI_14607_14586 396.636 1058.030  611.309 155.652 333.242 1007.330 172.386
## ORI_14609_14587 398.732 1146.150  629.054 228.702 302.560 1173.810 127.526
## ORI_14617_14591 291.473  739.311  648.960 218.606 203.517 1378.540 102.023
## ORI_14623_14594 344.306  687.802 1056.330 221.252 247.687 1230.300 182.205
## ORI_14629_14597 400.732  894.177  902.874 223.690 387.316 1229.260 258.429
## ORI_14631_14598 446.731 1194.500  919.906 186.848 309.167 1195.050 164.274
```

```
## ORI_14633_14599 429.624  980.578  819.361 297.265 284.260 1019.820 148.448
## ORI_14635_14600 367.098 1034.070  980.025 360.253 259.841  789.775 195.149
## ORI_14639_14602 462.801  652.104  892.202 314.198 297.186  914.730 287.175
##                   [,6648]  [,6649]  [,6650]  [,6651]  [,6652] [,6653]  [,6654]
## ORI_10219_10218  127.1790  543.232  841.352 1756.200  286.707 819.729  903.456
## ORI_10735_10730  418.6680  738.958 1295.020 1343.170  841.541 626.185 1697.810
## ORI_14605_14585  326.4540  787.021 1055.190 1478.500  542.834 670.441 1309.260
## ORI_14607_14586  753.6050  736.310  919.660 1652.380  414.823 546.606 1251.310
## ORI_14609_14587  277.0490  866.943 1229.140 2055.100  826.932 792.150 1430.160
## ORI_14617_14591   90.0693  780.589 1088.430 1630.780  432.360 429.710 1201.540
## ORI_14623_14594  163.0830  701.484  865.401 1949.520  367.040 882.435 1262.380
## ORI_14629_14597   98.3666  896.193 1115.320 1308.700  604.759 430.047 1237.810
## ORI_14631_14598  254.5400  941.401 1321.340 1748.890  645.837 617.103 1491.740
## ORI_14633_14599  149.5550  848.393 1030.960 1672.680  637.014 610.598 1156.600
## ORI_14635_14600  171.3890  906.847 1053.150 1630.760  791.460 930.574 1234.050
## ORI_14639_14602  145.7440 1107.960 1240.380  890.600  525.873 683.887 1743.470
##                  [,6655] [,6656]  [,6657]  [,6658]  [,6659] [,6660]  [,6661]
## ORI_10219_10218 315.512 1408.22  748.863  676.492  684.374 253.865  579.283
## ORI_10735_10730 509.748 1770.95  930.690  638.083  549.285 256.413 1218.520
## ORI_14605_14585 548.072 1775.37  920.365  847.174  540.413 346.442 1066.630
## ORI_14607_14586 543.679 1894.92  933.830  782.910 1377.340 211.521 1214.230
## ORI_14609_14587 734.953 1902.91 1058.230  984.621 1169.610 257.527 1207.430
## ORI_14617_14591 536.272 1728.00  885.486  832.566  379.826 226.579  923.868
## ORI_14623_14594 295.391 1694.36  952.127  646.944  714.582 214.186 1031.020
## ORI_14629_14597 410.984 1625.80  837.812  704.345  658.155 313.020 1721.210
## ORI_14631_14598 617.651 1784.30  827.924  957.483  929.083 221.844 1397.080
## ORI_14633_14599 539.409 1706.65  951.995  906.875  473.812 377.593 1322.740
## ORI_14635_14600 539.119 1659.77  694.838  903.673  515.648 319.695 1169.720
## ORI_14639_14602 474.180 1779.74  550.348 1144.500  446.817 404.384 1269.960
##                  [,6662] [,6663]  [,6664]  [,6665]  [,6666]  [,6667]  [,6668]
## ORI_10219_10218 330.0720 575.916  152.942  299.580 2158.090 197.9900 1985.690
## ORI_10735_10730 111.2350 372.187  540.772  785.221  825.624 236.8840  909.729
## ORI_14605_14585 115.1530 407.574  306.974  982.752 2588.580 350.9240  652.074
## ORI_14607_14586 112.4510 464.289  321.079  353.404 3073.890 229.9230  716.289
## ORI_14609_14587  47.3609 373.383  312.545  341.833 1719.650 392.6550  764.321
## ORI_14617_14591 287.7770 306.362  179.425  454.687 1097.050 161.6300 1819.530
## ORI_14623_14594 269.8220 478.240  233.354  314.315 1025.140 196.8230  936.698
## ORI_14629_14597 128.2770 537.950  334.950 1623.010  587.007  76.2809 1120.610
## ORI_14631_14598  62.9429 367.284  368.372 1085.220  981.294 259.8290  983.407
## ORI_14633_14599 237.5100 559.864  464.280  429.103  790.847 268.8130  855.507
## ORI_14635_14600 465.2430 488.651  281.997  370.273 1371.100 225.5480 1168.410
## ORI_14639_14602 474.0920 320.600  490.155  967.586  731.351 207.6010 1034.760
##                  [,6669] [,6670]  [,6671]  [,6672] [,6673] [,6674] [,6675]
## ORI_10219_10218 253.226 317.610 1324.380  446.480 229.572 411.341 307.598
## ORI_10735_10730 603.932 326.094 1200.680  687.346 376.096 387.310 448.338
## ORI_14605_14585 400.501 303.730 1161.540  829.920 276.818 536.512 368.604
## ORI_14607_14586 393.132 429.302 1133.130  478.069 295.376 749.659 354.561
## ORI_14609_14587 394.157 388.368  956.264  772.544 391.619 505.898 540.372
## ORI_14617_14591 402.963 184.778  694.792  843.424 246.985 477.279 346.603
## ORI_14623_14594 386.055 253.701  886.831  764.932 303.289 480.990 237.240
## ORI_14629_14597 558.713 266.178 1205.910  561.576 180.076 694.684 485.645
## ORI_14631_14598 489.188 255.428 1006.570  977.081 349.969 477.405 583.227
## ORI_14633_14599 489.701 404.401 1063.090  743.347 381.362 477.244 395.428
## ORI_14635_14600 411.231 348.502  705.834  728.349 313.513 498.699 392.092
```

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## ORI_14639_14602 465.079 271.634  914.738  994.571 304.574 393.777 383.672
##                  [,6676]   [,6677] [,6678]  [,6679] [,6680]  [,6681]  [,6682]
## ORI_10219_10218 264.4000  334.9040 1446.22  892.945 166.594  555.658  976.278
## ORI_10735_10730 198.1910  927.8360 1315.78 1044.880 640.695  783.017  392.905
## ORI_14605_14585 304.0260  754.3430 1527.67  914.065 371.111  845.838  536.510
## ORI_14607_14586 331.7010  324.9030 1669.20 1758.720 370.889  424.621  785.333
## ORI_14609_14587 325.4350 1551.7200 2044.12 1177.360 368.666  456.022  704.129
## ORI_14617_14591 285.0650  336.8370 1282.68  718.660 242.567  721.477  717.331
## ORI_14623_14594 393.2250  143.3170 1275.59  596.785 288.423  569.709  324.418
## ORI_14629_14597 479.9860  244.9610 1006.29 1082.270 350.460  951.367  444.737
## ORI_14631_14598 356.0110  840.7020 1788.61 1159.770 358.204  636.585  334.658
## ORI_14633_14599 248.0410  266.8970 1918.64  769.055 305.376  928.974  294.954
## ORI_14635_14600 346.8860  132.3740 1768.90  607.117 203.584  549.692  449.555
## ORI_14639_14602 331.2260  192.8770 1036.28  378.469 296.354 1288.680  309.307
##                 [,6683]   [,6684]  [,6685]  [,6686] [,6687] [,6688]  [,6689]
## ORI_10219_10218 353.224 1472.1800  551.734 553.9870 384.235 536.713 620.1380
## ORI_10735_10730 895.796  345.0330  978.355 429.4810 327.388 445.577  83.6449
## ORI_14605_14585 466.775  389.6660  876.923 320.6040 434.068 589.374 117.1830
## ORI_14607_14586 510.069  451.7390  900.914 247.0770 587.595 322.336 192.5790
## ORI_14609_14587 466.920  200.6640 1031.020 212.0920 503.078 607.397 223.8860
## ORI_14617_14591 496.028 1652.7500  929.408 339.7410 228.786 478.196 742.8410
## ORI_14623_14594 522.725  613.6530  550.527 306.2650 277.980 417.459 634.2590
## ORI_14629_14597 457.293  180.1680  772.471 214.2630 344.301 483.590 110.3110
## ORI_14631_14598 511.671  273.4990 1034.320 156.1850 357.786 478.923 131.4350
## ORI_14633_14599 522.429  876.0050  887.710 234.7690 310.746 498.243 317.7660
## ORI_14635_14600 507.891  622.1370  785.901 228.8770 329.235 493.887 297.3920
## ORI_14639_14602 600.616  234.2020  530.603 306.5980 270.991 222.154 132.6340
##                  [,6690]  [,6691]  [,6692] [,6693] [,6694]  [,6695]  [,6696]
## ORI_10219_10218  566.433 177.2480  306.231 338.782 487.754  85.2921  653.293
## ORI_10735_10730  771.177 295.5720  771.578 442.339 340.367 229.6960 1031.040
## ORI_14605_14585  691.865 170.4330  551.775 407.723 314.720 103.9330 1855.370
## ORI_14607_14586  500.691 175.0100 1268.570 337.018 229.882  62.0161 1122.130
## ORI_14609_14587  618.956 100.9720  914.104 320.115 157.511 161.1470 1503.890
## ORI_14617_14591  816.451  87.3990  413.414 376.217 475.964  67.1083  794.552
## ORI_14623_14594  819.454 150.9310  414.373 553.587 406.909  58.9765  879.617
## ORI_14629_14597  674.123 114.0640 1876.030 446.480 322.612  91.6943 1314.670
## ORI_14631_14598  694.090 105.5890 1681.250 384.948 320.895 159.4860 1492.610
## ORI_14633_14599  722.546 157.7290  425.687 365.839 234.380 124.0990  903.554
## ORI_14635_14600  919.849 117.3020  457.417 423.456 178.373 118.0000  994.958
## ORI_14639_14602  542.586 121.2820  578.763 534.509 603.849 228.2770 1206.100
##                 [,6697]  [,6698] [,6699]  [,6700]  [,6701]  [,6702]  [,6703]
## ORI_10219_10218 385.895  206.892 743.264  24.6827  551.855 142.5340  910.597
## ORI_10735_10730 266.898  887.435 564.913 150.9160  651.850 283.6580 1410.070
## ORI_14605_14585 504.479  483.684 531.166 119.4560  757.699 107.5760 1348.950
## ORI_14607_14586 263.821  711.513 659.466  33.3893  539.417 219.6490  910.679
## ORI_14609_14587 318.708  561.611 637.809 324.9580  765.243 154.7120 1204.530
## ORI_14617_14591 389.119  497.917 929.095  26.0661  805.959  64.8121 1353.560
## ORI_14623_14594 323.024  444.597 445.613  24.6827  823.135 113.0910 1462.370
## ORI_14629_14597 314.293  901.434 518.744 348.9910  438.412 170.1190 1573.000
## ORI_14631_14598 240.295  661.136 486.936  24.6827  669.447 157.5140 1544.260
## ORI_14633_14599 156.777  721.178 511.177  76.0501  734.942 162.4400 1383.940
## ORI_14635_14600 309.198  627.205 549.674  24.6827  951.680 161.1020 1209.140
## ORI_14639_14602 241.161 1320.150 620.440  35.8324  894.390 197.8000 1243.690
##                  [,6704]  [,6705]  [,6706]  [,6707]  [,6708]  [,6709] [,6710]
```

```
## ORI_10219_10218  686.937 158.7010 110.8530 226.7360 105.5210  879.099 296.950
## ORI_10735_10730  842.968 315.6220 110.7870  57.7555  85.6819  756.126 247.941
## ORI_14605_14585 1336.200 169.6740 242.4360  40.3531  89.2378  885.853 248.434
## ORI_14607_14586 1144.140 203.4850 247.4290 112.0340  75.3560  697.540 359.779
## ORI_14609_14587  987.224 281.0560 437.3710  95.8358 102.8370  765.034 192.508
## ORI_14617_14591  808.023 106.2920  62.6668 211.3700 133.4200 1281.980 238.671
## ORI_14623_14594  539.860 107.2350 146.9000 133.9470 123.1530  977.624 209.837
## ORI_14629_14597  693.070  66.8677 167.2290  64.1206 321.6660 3075.360 371.962
## ORI_14631_14598  840.350 216.2360 117.8020  46.5004 110.2190 1728.140 197.450
## ORI_14633_14599  992.036 188.9390 144.1130  70.9620 119.3230  923.226 213.031
## ORI_14635_14600  403.215 151.1380 126.4290  82.7528  83.2617  852.693 210.581
## ORI_14639_14602  904.230 369.8300 189.5580  44.5398 392.6630 1025.170 171.432
##                 [,6711] [,6712] [,6713]  [,6714] [,6715] [,6716] [,6717]
## ORI_10219_10218 290.658 525.928 284.574 141.6250 321.185 498.900 278.368
## ORI_10735_10730 167.710 311.957 228.944 149.9270 263.914 429.820 263.479
## ORI_14605_14585 507.443 425.160 336.579 221.2340 293.280 456.244 323.177
## ORI_14607_14586 182.759 581.716 341.270 389.5200 211.905 587.143 353.819
## ORI_14609_14587 326.329 571.165 210.746 246.4820 210.480 914.198 219.940
## ORI_14617_14591 174.020 587.772 270.210 141.5190 204.564 772.935 201.820
## ORI_14623_14594 271.893 280.635 332.977  97.2842 363.098 693.271 283.020
## ORI_14629_14597 238.192 339.262 433.985 429.4790 326.475 552.863 312.322
## ORI_14631_14598 230.701 447.605 229.701 242.1070 297.701 534.493 289.774
## ORI_14633_14599 316.723 336.982 292.765 135.1800 267.758 712.014 323.446
## ORI_14635_14600 283.433 231.592 341.252  98.2053 281.900 563.437 306.136
## ORI_14639_14602 160.435 155.983 283.540  78.0525 290.398 607.016 210.678
##                 [,6718]  [,6719]  [,6720] [,6721]  [,6722] [,6723]  [,6724]
## ORI_10219_10218 679.443  847.847  648.494 471.430 1378.580 408.133 192.3170
## ORI_10735_10730 480.216  868.216  444.894 286.803  639.756 384.713 210.9540
## ORI_14605_14585 306.953  687.354  647.811 350.336 1283.140 504.962 189.9110
## ORI_14607_14586 424.300  690.775  820.818 305.392  499.581 385.648 162.0050
## ORI_14609_14587 621.377  544.570  916.606 445.945  601.971 304.089 199.7420
## ORI_14617_14591 310.065  505.604  653.275 437.115  655.689 222.011 317.4800
## ORI_14623_14594 471.166  659.302  296.758 301.321  797.404 254.750 193.5420
## ORI_14629_14597 717.074  638.484  386.979 349.424  448.540 344.449 202.9080
## ORI_14631_14598 477.201  644.311 1014.830 321.033  635.214 299.421 172.4610
## ORI_14633_14599 283.154  731.225  398.149 359.027  845.005 433.442 287.6590
## ORI_14635_14600 226.075  740.668  330.826 477.711  893.071 335.533 184.7760
## ORI_14639_14602 223.119  734.938  176.966 400.329  725.672 338.240 330.1150
##                  [,6725]  [,6726]  [,6727]  [,6728] [,6729]  [,6730] [,6731]
## ORI_10219_10218 191.7550  24.6827  285.750 319.5340 325.414  708.464 491.661
## ORI_10735_10730 495.7930 109.7030  676.566 195.8790 267.529  852.804 365.983
## ORI_14605_14585 252.4030  24.6827  322.087 227.2920 333.018  692.859 535.367
## ORI_14607_14586 247.6870 208.3510  460.910 239.3700 349.578  802.094 887.408
## ORI_14609_14587 296.5280 117.7270  463.815 170.7520 250.648 1027.340 685.070
## ORI_14617_14591 161.2220  54.2811  406.817 112.0520 212.615  749.889 320.403
## ORI_14623_14594 130.9160  79.0438  320.491 399.9730 335.340  617.556 497.691
## ORI_14629_14597 203.8490  24.6827  440.095 305.1840 433.120  841.338 465.180
## ORI_14631_14598 163.6830  24.6827  209.876 194.8600 267.053  633.774 576.654
## ORI_14633_14599 125.4460 207.9260  834.489 357.4930 446.860  845.037 367.087
## ORI_14635_14600  71.3866 123.7220  503.661 315.9130 442.107  694.980 583.629
## ORI_14639_14602 295.9040 319.9330  399.348 166.4530 433.721  662.193 470.605
##                 [,6732] [,6733] [,6734]  [,6735]  [,6736]  [,6737]  [,6738]
## ORI_10219_10218 212.504 4127.61 202.734  520.190 149.2030  532.569 117.2260
## ORI_10735_10730 264.789 2952.54 236.714  700.484 115.5690  302.486 133.4660
```

```
## ORI_14605_14585 212.587 4021.47 282.599  818.888 343.1370  347.018 128.1710
## ORI_14607_14586 232.585 2995.59 219.800 1644.820 141.6400  711.506 354.6390
## ORI_14609_14587 286.051 3690.48 320.351 1230.240 498.2850  361.249 139.6470
## ORI_14617_14591 237.136 3611.61 176.187  357.471 114.9060  399.335  77.8439
## ORI_14623_14594 247.609 3432.88 183.711  429.118 243.5020  699.423 105.9770
## ORI_14629_14597 202.196 4352.72 260.657  351.969 128.0560  556.810 163.2780
## ORI_14631_14598 422.468 3950.10 245.396  943.132 246.1340  344.332 149.3780
## ORI_14633_14599 304.822 4175.23 246.640  707.734 158.8910  756.846 125.8650
## ORI_14635_14600 354.603 3376.96 341.146  679.918 199.9120  661.388 144.0580
## ORI_14639_14602 306.758 3509.02 278.137  284.052 152.7420  644.039 130.5680
##                 [,6739]  [,6740]  [,6741]   [,6742]  [,6743] [,6744]  [,6745]
## ORI_10219_10218 352.110  95.1667  821.402 1699.0600  248.990 305.320 348.6910
## ORI_10735_10730 351.170 157.2500  501.701   72.0604  727.430 453.779  85.6980
## ORI_14605_14585 289.817 115.4290  996.897  153.2990  399.279 457.421 343.7780
## ORI_14607_14586 401.748 173.6540  774.298  667.1320  834.998 381.766 292.8590
## ORI_14609_14587 457.623 197.5500  910.701  290.5670  707.596 387.556 213.3770
## ORI_14617_14591 449.182  53.5939  707.553 1622.3200  316.794 264.085 159.8310
## ORI_14623_14594 322.566  58.1325  338.969 1074.6700  278.132 322.668 239.1520
## ORI_14629_14597 387.873  79.9138  543.560  113.3910  737.239 472.325 292.9440
## ORI_14631_14598 385.444 165.9040  543.341  163.1670  771.703 424.041 202.9860
## ORI_14633_14599 356.615  54.9543 1350.280  356.6440  298.740 420.360 151.6430
## ORI_14635_14600 345.108  72.3485  687.052  625.5040  214.936 355.174 179.7560
## ORI_14639_14602 418.162 101.8970  557.910  210.6450  294.621 411.918 157.4940
##                   [,6746] [,6747]  [,6748]  [,6749]  [,6750] [,6751]  [,6752]
## ORI_10219_10218  224.4900 271.169 165.7080  308.972 246.2280 319.709  24.6827
## ORI_10735_10730   42.0877 236.049 280.5610 1210.880 189.1350 388.482 140.9230
## ORI_14605_14585  318.6330 296.081 405.1000  377.426 215.5010 373.160 104.4060
## ORI_14607_14586   81.9185 247.670 602.0220  418.679 353.5080 344.390 100.4080
## ORI_14609_14587 1147.3000 293.245 432.0090  965.756 365.4740 376.370 380.8010
## ORI_14617_14591   35.1364 238.755 115.7210  365.271 207.3820 241.183  28.7767
## ORI_14623_14594  115.1800 365.620 158.3390  324.539 292.2650 378.604  55.8054
## ORI_14629_14597   57.9048 393.545 112.3390  303.589 291.5300 479.385 225.1660
## ORI_14631_14598  664.4720 346.504 323.8250  586.028 371.4610 344.454 240.5140
## ORI_14633_14599  150.0880 376.843 228.7940  738.894 195.6440 441.308 128.4280
## ORI_14635_14600  129.5050 330.357 134.3770  496.296 283.1130 392.341  81.7725
## ORI_14639_14602   24.6827 309.064 100.6770  360.696 270.2800 489.414  24.6827
##                  [,6753]   [,6754]  [,6755]   [,6756]   [,6757] [,6758]
## ORI_10219_10218 171.0710 2817.4500  76.5550  479.5680 1773.8500 3734.40
## ORI_10735_10730  24.6827  132.3410 145.4100  429.7240  189.5850 2963.96
## ORI_14605_14585  24.6827  379.3750 116.3880  200.1570  274.4270 3907.94
## ORI_14607_14586  58.6657 1162.1000 138.0050  239.0880  792.9100 3277.78
## ORI_14609_14587  72.5991  639.7340 291.6330  163.5920  556.2850 4228.25
## ORI_14617_14591 164.4750 2650.4200 126.7720  541.8320  803.5050 4593.06
## ORI_14623_14594 187.3090 1770.8800 169.0090  370.9920 1256.2300 3681.21
## ORI_14629_14597  24.6827  354.5810  60.0313  232.8830  495.4140 5231.99
## ORI_14631_14598  24.6827  374.3630 189.7930  258.7450  832.0350 3500.87
## ORI_14633_14599  43.1561  651.1570 133.9870  414.6640  263.7750 3442.21
## ORI_14635_14600  59.4425  873.9790 265.5940  360.1420  309.1860 2620.17
## ORI_14639_14602  24.6827  547.4040 157.1510  816.0590  233.6820 1821.18
##                  [,6759]  [,6760]  [,6761]  [,6762]  [,6763] [,6764] [,6765]
## ORI_10219_10218  928.226 252.2820 1319.270  86.8486  98.9560 399.187 465.185
## ORI_10735_10730  811.510 259.3240  668.962 217.1740 178.4700 366.884 289.649
## ORI_14605_14585  704.515 271.2690  704.810 195.4620 127.6890 455.769 393.155
## ORI_14607_14586 1358.720 139.3480  485.448 288.9400 145.1600 354.944 321.104
```

```
## ORI_14609_14587  974.564 252.7310 1066.070 252.6300 329.4080 483.445 510.351
## ORI_14617_14591 1123.380 149.0870 1291.580  52.1583  60.8435 370.715 420.749
## ORI_14623_14594  794.128 104.9210  910.222  46.4589  81.0155 318.417 313.501
## ORI_14629_14597 1369.510 241.5330  750.949 576.1930 109.7070 427.959 429.190
## ORI_14631_14598 1258.580 191.8360  564.881 314.8980 228.6330 476.138 420.264
## ORI_14633_14599  850.016 500.1400  870.854 119.6830 132.5230 251.814 512.207
## ORI_14635_14600  718.274 206.9820  909.714  82.2224  84.5201 269.723 473.734
## ORI_14639_14602  873.261 131.4890  924.910 165.8970 128.1810 312.420 213.930
##                   [,6766]  [,6767] [,6768] [,6769] [,6770] [,6771] [,6772]
## ORI_10219_10218  194.8590  439.987 365.080 469.955 502.070 223.093 185.014
## ORI_10735_10730  209.4760  582.454 802.086 539.309 382.983 292.634 366.093
## ORI_14605_14585  171.5710  518.341 529.916 473.467 235.583 643.064 268.537
## ORI_14607_14586  208.6530  464.944 440.228 427.648 439.612 206.690 217.992
## ORI_14609_14587  165.7910  306.574 356.843 386.346 398.162 333.340 288.002
## ORI_14617_14591  358.1860  305.123 235.857 500.122 516.572 147.418 187.214
## ORI_14623_14594  467.5120  538.096 230.590 351.550 326.558 185.141 168.371
## ORI_14629_14597   24.6827  466.779 333.819 445.799 406.743 253.080 231.845
## ORI_14631_14598  359.0300  442.183 503.662 518.864 328.441 345.029 339.103
## ORI_14633_14599  361.9250  422.666 410.230 513.170 420.851 184.251 288.731
## ORI_14635_14600  374.7820  420.421 223.859 365.540 372.257 211.618 191.676
## ORI_14639_14602   77.1907  417.207 383.097 281.556 336.568 155.991 319.371
##                 [,6773]  [,6774]  [,6775]  [,6776] [,6777]  [,6778] [,6779]
## ORI_10219_10218 274.880  527.342  54.2878 145.3150 1894.68  894.905 1300.75
## ORI_10735_10730 389.996  273.824 160.4790 435.3350 2735.66  650.466 1613.37
## ORI_14605_14585 292.618  257.852 110.9480 186.1750 2160.08  624.119 1438.89
## ORI_14607_14586 271.165  340.677  93.5625 415.1110 2664.60  786.873 2144.91
## ORI_14609_14587 288.618  256.482 138.4080 430.6820 2354.01  842.216 1949.85
## ORI_14617_14591 198.830  725.578 265.0430  68.8935 2457.52 1280.200 1720.73
## ORI_14623_14594 257.565  480.042  75.2187  50.7597 2148.12  800.035 1486.54
## ORI_14629_14597 305.972  332.566 154.7280 204.8640 3285.90 1814.820 2000.64
## ORI_14631_14598 386.453  362.829 122.9200 361.1680 2861.12 1201.880 2111.29
## ORI_14633_14599 205.378  338.687 229.5400  58.2393 2789.82  980.971 2033.84
## ORI_14635_14600 212.951  336.939  72.7976  88.5208 2379.76  798.385 2133.90
## ORI_14639_14602 266.168  364.878 100.9960 254.1110 2708.25  763.096 2665.99
##                 [,6780] [,6781]  [,6782]  [,6783]  [,6784]  [,6785]  [,6786]
## ORI_10219_10218 1822.90 580.961  113.835 111.3860 309.7740  831.938  64.9689
## ORI_10735_10730 2117.46 438.445  245.106 202.9060 429.8560 1153.300 173.4480
## ORI_14605_14585 2104.22 477.399  153.957 164.6450 295.1400  727.918 139.9560
## ORI_14607_14586 3090.15 366.214 1598.660 241.5210 402.4740  626.311 296.2760
## ORI_14609_14587 2054.39 247.519  405.768 187.0730 326.8000  902.133 391.5970
## ORI_14617_14591 2959.99 194.754  115.609 102.4470 213.4350  863.397  59.8798
## ORI_14623_14594 1950.21 515.889  148.895 130.7940 151.3560  932.873  41.2189
## ORI_14629_14597 3205.28 547.392  241.698 503.3780 148.9170 1078.600 390.1470
## ORI_14631_14598 2661.24 351.208  438.804 246.7810 380.1750 1109.530 335.8180
## ORI_14633_14599 1846.12 453.862  254.782  99.4051 234.2720  832.879  51.6665
## ORI_14635_14600 2175.67 551.385  125.823 113.8370  78.9780  869.939  24.6827
## ORI_14639_14602 4106.69 518.158  579.581 276.7510 223.5580  497.320  72.0216
##                   [,6787]   [,6788]  [,6789]   [,6790] [,6791] [,6792]  [,6793]
## ORI_10219_10218  280.0010  406.6490 175.0940  414.3540 217.869 405.439 113.4540
## ORI_10735_10730  364.1280  351.9680 253.6600  602.6940 271.892 734.617 255.9350
## ORI_14605_14585   90.2640  115.6320 243.6580  499.2120 274.116 472.781 135.9740
## ORI_14607_14586  530.0140  869.5450 211.9780 1405.9800 351.979 791.453 174.0870
## ORI_14609_14587  472.5180  760.1430 236.3740 1427.9600 193.956 978.805 277.9630
## ORI_14617_14591  205.8590  336.9470  89.5277  214.2570 321.973 619.466  93.2551
```

```
## ORI_14623_14594  204.7220  313.6740 108.7500  168.7010 401.734 522.375  83.3847
## ORI_14629_14597  334.9910  495.6090 231.4430  272.5430 235.880 655.002 196.0010
## ORI_14631_14598  573.6970  832.2160 233.3940  617.7730 247.436 914.199 274.0740
## ORI_14633_14599  155.5600  200.5330 134.7970  764.8880 304.512 501.776 171.0340
## ORI_14635_14600  262.4200  355.8010 123.8510  336.3700 276.958 397.413 162.1310
## ORI_14639_14602  236.0300  277.2900 105.1650   91.6246 250.174 273.540 157.3150
##                  [,6794]  [,6795]  [,6796] [,6797] [,6798]  [,6799]  [,6800]
## ORI_10219_10218  757.380 119.1390 676.1520 472.623 234.859 404.3730  499.194
## ORI_10735_10730  774.468 325.6440 116.1540 506.425 342.105 365.7730  820.216
## ORI_14605_14585  774.572 228.1540 767.8170 402.541 299.318 440.3530  788.617
## ORI_14607_14586  729.342 383.3880 523.6600 544.379 312.385 358.0110  630.881
## ORI_14609_14587  860.877 253.9420 434.8640 616.916 386.965 449.6600  718.821
## ORI_14617_14591 1106.830 116.0320 176.4200 479.752 245.369 352.3030  497.404
## ORI_14623_14594  898.496 127.3300 156.4630 333.870 190.848 224.5570  578.774
## ORI_14629_14597  672.034 150.8290 200.0790 309.629 279.413 579.3160  687.331
## ORI_14631_14598  887.408 347.6500 192.1140 389.559 297.616 611.7420  683.645
## ORI_14633_14599  703.694 119.1530  99.8657 482.235 444.974 350.4760  771.127
## ORI_14635_14600  904.098  86.6370 297.9740 504.799 413.065 280.8050  634.681
## ORI_14639_14602  721.516 184.4200  99.0914 231.414 272.620 275.8290 1004.270
##                  [,6801] [,6802] [,6803]  [,6804]  [,6805] [,6806] [,6807]
## ORI_10219_10218 145.6020 209.001 316.034  990.239  163.478 210.287 238.417
## ORI_10735_10730 172.6670 342.215 406.997 1040.430  247.250 182.336 359.964
## ORI_14605_14585 246.7080 255.834 317.483 1003.970  173.216 176.562 318.385
## ORI_14607_14586 212.8450 340.965 379.427 1306.190  173.223 294.201 601.275
## ORI_14609_14587 147.7270 562.206 475.641 1231.930  260.385 173.878 316.433
## ORI_14617_14591 173.3880 362.548 180.180 1817.320  124.023 159.301 353.637
## ORI_14623_14594 212.4740 299.204 144.239 1453.030  104.242 218.126 211.617
## ORI_14629_14597 101.0240 672.691 397.431  922.325  294.278 315.091 410.586
## ORI_14631_14598 137.8310 501.432 345.082  883.109  178.580 289.302 462.485
## ORI_14633_14599 224.0570 262.735 205.938  907.660  202.564 217.124 239.769
## ORI_14635_14600 246.0560 330.826 309.206 1479.320  154.142 260.034 216.219
## ORI_14639_14602 246.5280 192.739 336.689  805.592  267.208 228.494 378.371
##                   [,6808]  [,6809]  [,6810]  [,6811]  [,6812]  [,6813]  [,6814]
## ORI_10219_10218  600.3840  831.884  91.4277  68.4553  512.654  230.121  869.941
## ORI_10735_10730  505.4320 1116.800 118.0800 245.5800  568.437 1470.790 1192.620
## ORI_14605_14585 1001.2600  922.309 124.4190  99.3147  538.645  324.378 1053.210
## ORI_14607_14586  600.7430 2077.210  92.7042 133.0640  661.687 1063.280  757.818
## ORI_14609_14587  865.9620 1193.400 193.9490 239.1020  465.764 1050.960 1114.670
## ORI_14617_14591 1020.2600 1051.290 109.7750  46.6520  362.584  401.833  961.587
## ORI_14623_14594  594.4710  709.644 141.7680  38.5645  543.260  483.268  980.066
## ORI_14629_14597   73.4716  888.836 137.6410  82.6554  686.560  487.376 1070.860
## ORI_14631_14598  861.1380  975.934 129.8510 131.7420  594.720 1303.310  961.818
## ORI_14633_14599 1332.4000 1514.440 111.2470 110.6870  558.583  705.715 1271.920
## ORI_14635_14600  406.6090  992.606 106.7920  28.1830  538.453  922.688 1463.510
## ORI_14639_14602 1693.3100 1381.530 147.7970 111.4430  517.172  371.884 1562.510
##                  [,6815] [,6816]  [,6817]  [,6818] [,6819] [,6820] [,6821]
## ORI_10219_10218  64.9381 515.986  493.650 414.5040 170.529 390.817 404.829
## ORI_10735_10730 131.0880 280.655  831.750 397.1350 504.645 350.580 611.366
## ORI_14605_14585  61.6484 439.577  718.715 250.1210 410.895 301.632 498.932
## ORI_14607_14586 223.3530 297.090  974.314 229.9100 593.704 297.370 423.034
## ORI_14609_14587 137.6070 342.725 1078.880 337.8510 440.238 415.479 319.369
## ORI_14617_14591  36.9204 272.737  686.079 604.7060 187.285 372.583 298.995
## ORI_14623_14594  84.6229 341.061  544.637 310.9950 235.739 288.113 472.802
## ORI_14629_14597  60.4565 529.634 1045.380 192.1330 717.334 343.110 733.026
```

```
## ORI_14631_14598 132.6660 318.723 1032.880 252.3800 636.879 359.568 463.668
## ORI_14633_14599  92.6399 354.675  896.476 290.3380 206.110 293.207 364.364
## ORI_14635_14600  66.4047 310.617  670.111 280.1350 205.783 398.309 475.319
## ORI_14639_14602  58.9785 311.837  753.062 211.9980 426.187 260.971 411.866
##                  [,6822]  [,6823]  [,6824]  [,6825] [,6826] [,6827]   [,6828]
## ORI_10219_10218 191.1130  685.395  653.902  356.285 167.252 667.336  717.4930
## ORI_10735_10730 219.9740  735.274  764.622  833.742 279.664 404.420  247.9440
## ORI_14605_14585 106.5720  937.824  566.393  723.817 250.169 580.106  557.9220
## ORI_14607_14586 136.1940 1053.930  433.438 1138.780 296.096 398.505  517.7640
## ORI_14609_14587 180.9950 1415.220  410.586 1334.660 250.366 376.485  424.9590
## ORI_14617_14591 307.0760 1524.370  339.365  854.277 333.130 244.939  911.4810
## ORI_14623_14594 152.6800 1279.650  413.424  880.624 378.412 488.929  713.7820
## ORI_14629_14597 266.1130 4325.160  671.779 2553.700 383.302 417.778  754.5800
## ORI_14631_14598 242.0480 2215.130  423.680  902.861 368.942 396.519  524.5500
## ORI_14633_14599  24.6827 1018.630  855.545  825.038 384.123 664.312  448.9740
## ORI_14635_14600  38.2947  800.009  679.292 1208.400 430.469 509.487  368.6610
## ORI_14639_14602 116.7510  390.383  686.284 1023.840 257.590 433.219  204.3070
##                  [,6829]  [,6830]  [,6831]  [,6832]  [,6833] [,6834] [,6835]
## ORI_10219_10218 1530.180  94.5970  368.162  655.666  219.189 296.843 542.604
## ORI_10735_10730 1267.940 227.8840  393.804 1270.820  400.804 237.901 346.062
## ORI_14605_14585 1451.820 109.9600  583.139  586.612  456.152 291.230 509.708
## ORI_14607_14586  945.723  39.5000  972.501  668.018  901.350 255.965 389.321
## ORI_14609_14587 1856.520  81.3179 1302.920 1184.500  686.414 344.460 289.232
## ORI_14617_14591  915.180  57.0213  620.245  824.726  128.245 175.280 661.559
## ORI_14623_14594  961.613  75.7542  531.427  947.607  166.703 182.803 492.651
## ORI_14629_14597 1068.980  78.2344  404.376  848.990  237.156 208.319 571.402
## ORI_14631_14598 1228.890 177.9160  720.400 1233.060  555.045 224.173 322.558
## ORI_14633_14599 1103.240  98.8998  478.249 1104.430  220.401 253.262 444.807
## ORI_14635_14600 1014.360  70.4339  259.528  642.989  282.300 220.549 425.658
## ORI_14639_14602  759.963  79.8178  398.287 1118.480  151.004 166.941 438.155
##                   [,6836]  [,6837] [,6838]  [,6839]   [,6840]  [,6841]
## ORI_10219_10218  695.8310  734.158 374.237 1486.730  377.1060  263.771
## ORI_10735_10730   30.5798  776.154 154.656  822.812  166.3900  229.582
## ORI_14605_14585   84.7358  488.008 476.898  941.730  393.8520  246.863
## ORI_14607_14586  283.3470  414.679 442.316 1171.080  267.7340  260.431
## ORI_14609_14587  141.2890  748.214 300.136 1069.130  373.2600  232.669
## ORI_14617_14591  678.8300  549.119 248.911 2106.840  484.8570  149.869
## ORI_14623_14594  473.0070  672.795 351.326 1422.340  336.6020  189.714
## ORI_14629_14597   64.0354  751.768 267.106  700.949   96.3901  203.285
## ORI_14631_14598   69.3855  925.676 233.434  794.903  798.2870  242.494
## ORI_14633_14599  191.0850  788.951 295.512 1123.320  187.9520  274.182
## ORI_14635_14600  258.0940  683.752 212.397 1119.250  236.6770  270.942
## ORI_14639_14602  104.2760  552.941 118.885  711.440  122.2120  327.794
##                   [,6842] [,6843] [,6844]  [,6845]  [,6846] [,6847]  [,6848]
## ORI_10219_10218  135.7280 360.383 190.205 1100.250 323.4550 357.250 155.8040
## ORI_10735_10730  413.0710 120.399 190.968  880.573 152.7310 185.365 220.8920
## ORI_14605_14585  238.7200 496.954 220.149  737.759 161.3410 292.220  79.6027
## ORI_14607_14586  742.9090 228.899 266.128  461.526 951.4230 325.243  73.0253
## ORI_14609_14587  347.6040 640.070 199.210  564.040 146.3950 166.770 339.8130
## ORI_14617_14591  136.2840 221.739 217.414 1740.980 461.9220 222.243 184.3810
## ORI_14623_14594  151.4340 238.447 352.477 1540.880 265.6670 431.248 147.5700
## ORI_14629_14597   72.7374 194.338 236.343 2862.390 124.7930 270.946  24.6827
## ORI_14631_14598  241.0630 157.726 298.036  508.023 132.6510 244.504 144.5370
## ORI_14633_14599  490.9710 169.380 247.461  888.432 135.8870 275.540 214.9140
```

```
## ORI_14635_14600  239.9560 263.699 277.644 1736.590 244.9170 241.520 193.4120
## ORI_14639_14602  109.4670 173.827 585.688 2650.490 188.5890 288.868 258.2420
##                  [,6849] [,6850]  [,6851] [,6852]  [,6853] [,6854]  [,6855]
## ORI_10219_10218 197.2270 524.887  146.375 174.437 170.5020 653.567  245.054
## ORI_10735_10730  91.6587 312.650  888.902 617.692 160.6220 219.189  740.884
## ORI_14605_14585  77.9256 330.594  195.091 310.213 354.1820 772.317  303.396
## ORI_14607_14586 114.4020 189.813  251.541 558.066 186.9710 302.790  435.318
## ORI_14609_14587  38.5863 240.066  209.052 540.547 292.6730 697.341  913.506
## ORI_14617_14591 405.0610 381.646  134.573 162.660 155.1620 281.384  315.069
## ORI_14623_14594 149.6490 308.280  152.389 193.361 301.1190 482.465  324.557
## ORI_14629_14597  24.6827 515.031  135.221 166.314 281.8560 493.593  651.633
## ORI_14631_14598  24.6827 234.541  150.863 278.412 198.1180 327.939  277.890
## ORI_14633_14599 177.0390 306.860  687.850 208.200 180.1520 482.328  850.045
## ORI_14635_14600 112.5430 335.887  211.935 157.505 499.2460 626.372  486.192
## ORI_14639_14602 108.1990 236.329  153.210 178.970 247.4930 370.939  269.798
##                 [,6856]  [,6857]  [,6858]  [,6859]  [,6860]  [,6861]  [,6862]
## ORI_10219_10218 264.130 125.1330 239.8300 224.0600  921.193 1862.510 176.5850
## ORI_10735_10730 412.180 279.7590 209.8730 125.8270  999.161 1009.510 307.8230
## ORI_14605_14585 296.537 140.4000 240.6770 188.5340 1066.830 1682.100 183.1030
## ORI_14607_14586 377.910 157.5340 146.2150 182.0850 1277.520 1479.380 348.1590
## ORI_14609_14587 358.424 258.8460 233.3300 194.0150 1357.440 1746.560 318.4110
## ORI_14617_14591 245.536 153.3760 150.1520 161.0930 1132.770 1391.970 213.7370
## ORI_14623_14594 194.686 149.9980 206.6020 153.1200  925.156 1845.970 156.7280
## ORI_14629_14597 255.415 167.5230 527.1120  68.8777  884.967 1763.020 142.9890
## ORI_14631_14598 315.045 160.7510 444.6480 160.8170 1258.280 1507.950 403.9200
## ORI_14633_14599 384.071 277.7850 157.4070 170.0690 1202.670 1650.600 255.0760
## ORI_14635_14600 249.769 229.4960 157.3830 162.6530  873.527 2001.790 228.5000
## ORI_14639_14602 353.516 241.4100 208.0870  77.2252 1286.880 1558.080 275.2910
##                 [,6863]  [,6864]  [,6865]  [,6866] [,6867] [,6868]  [,6869]
## ORI_10219_10218 418.376  93.5549  514.802  410.771 281.117 170.571  418.862
## ORI_10735_10730 497.718 223.6310  786.041 1306.910 461.017 283.430  795.023
## ORI_14605_14585 359.180 137.7030  546.087  460.832 352.440 176.238  871.512
## ORI_14607_14586 323.970  78.4118  378.898  351.694 215.679 164.949  839.427
## ORI_14609_14587 534.657 267.6650  702.076  558.837 263.709 208.409  801.468
## ORI_14617_14591 371.983  71.1996  549.549  411.392 220.958 179.907  952.127
## ORI_14623_14594 233.829 115.7480  453.073  352.194 219.880 215.872  969.497
## ORI_14629_14597 227.504 127.9730 1067.400  287.848 203.007 163.249  913.672
## ORI_14631_14598 461.642 193.4130  634.420  583.583 234.786 171.202  796.133
## ORI_14633_14599 528.807 170.8790  723.516  470.508 435.819 361.712 1231.060
## ORI_14635_14600 547.859 197.9020  590.967  519.628 239.794 334.046 1065.360
## ORI_14639_14602 397.793 195.1190  608.511  352.563 426.587 276.810  850.817
##                 [,6870]  [,6871]  [,6872] [,6873]  [,6874]  [,6875]  [,6876]
## ORI_10219_10218 446.365  645.912  514.338 467.046  319.781 100.7680  142.071
## ORI_10735_10730 642.535  788.724  899.898 743.090  701.498 339.2380  733.317
## ORI_14605_14585 603.029  570.935 1051.800 539.888  685.883 128.2030  453.988
## ORI_14607_14586 405.184  316.926  663.405 538.713  393.211 123.4290  166.906
## ORI_14609_14587 572.963  623.343 1230.430 639.741  636.875 157.7590  450.873
## ORI_14617_14591 586.012  731.043  664.224 535.881  406.685  87.0882  139.515
## ORI_14623_14594 502.894  729.841  708.154 349.937  366.390 124.3970  276.606
## ORI_14629_14597 559.302  491.700  872.944 580.540  606.675 118.5000  659.610
## ORI_14631_14598 592.913  555.084  989.383 601.705  842.343 164.5120  421.323
## ORI_14633_14599 692.905  556.268  908.536 410.970  627.610 161.3470  319.272
## ORI_14635_14600 650.210  565.557  944.700 523.816  380.590 199.4850  409.835
## ORI_14639_14602 811.809  423.631  721.249 622.247  634.436 483.7180  646.180
```

```
##                  [,6877] [,6878] [,6879] [,6880] [,6881]  [,6882]  [,6883]
## ORI_10219_10218 203.424 202.991 334.932 180.365 271.512 134.7200  717.035
## ORI_10735_10730 494.751 318.144 365.737 237.953 369.276 336.1880  579.084
## ORI_14605_14585 310.683 305.846 272.138 179.393 285.337 202.2780  716.992
## ORI_14607_14586 255.798 253.549 294.137 269.723 237.137 159.7810  574.208
## ORI_14609_14587 610.564 303.334 364.039 313.127 342.097 216.3100 1078.320
## ORI_14617_14591 168.028 255.986 275.929 192.291 274.637 110.5670  755.488
## ORI_14623_14594 174.097 368.389 395.763 196.524 142.943 169.2680  577.489
## ORI_14629_14597 360.842 183.175 346.597 239.538 289.162 347.7410  726.673
## ORI_14631_14598 369.290 303.020 365.500 258.027 246.612 246.1080  857.777
## ORI_14633_14599 299.652 408.935 272.525 295.552 217.492 173.2130  894.294
## ORI_14635_14600 339.151 763.065 455.654 394.882 337.372 150.1930  685.081
## ORI_14639_14602 386.210 372.869 413.701 265.933 389.468 192.4120  435.536
##                  [,6884] [,6885] [,6886]  [,6887]  [,6888] [,6889] [,6890]
## ORI_10219_10218 356.114 507.084 410.502 151.3120  542.410 175.323 331.041
## ORI_10735_10730 541.625 315.967 362.906 217.7480 1079.840 360.475 412.750
## ORI_14605_14585 461.001 488.026 424.761 247.5120  556.622 173.252 373.382
## ORI_14607_14586 514.808 289.642 318.508 539.2410  942.746 334.304 632.159
## ORI_14609_14587 578.332 299.373 418.201 433.2530  727.438 164.608 547.625
## ORI_14617_14591 486.008 336.731 312.393 136.2980  645.367 140.740 330.219
## ORI_14623_14594 326.834 512.781 212.812  80.8699  354.790 183.530 525.426
## ORI_14629_14597 364.231 306.577 433.557 116.7650  851.818 190.641 703.640
## ORI_14631_14598 592.196 330.409 544.414 353.8460  833.107 287.911 716.529
## ORI_14633_14599 488.832 462.533 332.061 121.9720  409.969 222.230 420.994
## ORI_14635_14600 392.227 469.425 239.087 129.9720  485.297 169.649 357.428
## ORI_14639_14602 235.572 378.704 355.035  86.8428  647.381 307.961 460.469
##                  [,6891]  [,6892] [,6893]  [,6894]   [,6895] [,6896]  [,6897]
## ORI_10219_10218  633.325  310.958 400.575  489.368   75.6331 345.783  639.638
## ORI_10735_10730  553.503  355.186 314.397  414.965  174.2820 362.510  359.001
## ORI_14605_14585  351.572  281.744 434.846  860.576  118.4570 409.282  494.943
## ORI_14607_14586  410.067  312.631 382.848  920.296  390.5420 742.974  567.374
## ORI_14609_14587  534.802  377.918 318.369  393.419  223.8800 705.546  567.643
## ORI_14617_14591  655.119  337.807 447.347  349.846   57.1138 237.726  687.098
## ORI_14623_14594  349.641  214.674 295.131  540.455   52.5245 252.343  447.686
## ORI_14629_14597  171.028  207.071 438.795  502.920   62.3138 418.123  419.519
## ORI_14631_14598  330.425  265.249 264.207  492.703  177.7780 441.582  454.065
## ORI_14633_14599  356.323  537.319 475.176  553.341  138.5420 366.962  492.305
## ORI_14635_14600  427.257  333.726 384.133  550.905   31.4071 320.790  606.884
## ORI_14639_14602  436.970  197.615 369.041  509.419   95.1643 241.727  424.960
##                   [,6898]   [,6899]  [,6900]  [,6901]  [,6902]   [,6903]
## ORI_10219_10218 4216.9700 1436.4100  87.1244  541.037 121.8620 1411.8100
## ORI_10735_10730  129.2760  197.4930 170.7380  497.084 197.8430  160.7730
## ORI_14605_14585  401.4540  172.9280  41.2612  414.080 120.0500  507.8210
## ORI_14607_14586 2660.9400  513.2750  75.4930  493.658 124.6610  717.0320
## ORI_14609_14587 1193.5700  205.1670 260.0360  505.313 258.6890  449.9450
## ORI_14617_14591 3950.8000 1646.9000  50.3622  555.750  94.6503 2052.3200
## ORI_14623_14594 3563.1200  715.2470  82.2737  400.622 102.1170 1015.6100
## ORI_14629_14597  540.0800   84.9876 168.4950  364.141 176.0470  213.4340
## ORI_14631_14598  805.6060   80.7941 150.4940  467.284 218.6480  309.5810
## ORI_14633_14599 2040.9300  684.7280 116.1950  402.381 121.5840  402.2780
## ORI_14635_14600 2771.6200  688.6220  95.0604  346.005 116.0950  578.6400
## ORI_14639_14602 1579.5500  369.1130  38.2050  378.415 114.2570  460.8680
##                   [,6904]   [,6905]  [,6906]  [,6907]  [,6908]  [,6909]
## ORI_10219_10218   55.0834 1382.9200 200.7770  904.029 133.3530 1684.110
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## ORI_10735_10730  236.5050   24.6827  24.6827 1171.360 438.2740 1623.770
## ORI_14605_14585  505.4900   24.6827  24.6827 1223.840 155.8240 2903.390
## ORI_14607_14586   62.4567  496.6760  59.3884 1325.700 166.4860 1574.690
## ORI_14609_14587  409.0560  164.3970  24.6827 1449.340 159.7720 1794.080
## ORI_14617_14591  441.3450 1253.8000 167.7490 1147.650 131.0880 2831.720
## ORI_14623_14594  455.6630  521.0810  92.3103 1181.850 149.6780 1850.000
## ORI_14629_14597   68.1823   33.7707  24.6827 1294.900 136.6530 1382.250
## ORI_14631_14598  257.3470   60.4638  24.6827 1825.710 260.7710 2939.230
## ORI_14633_14599  501.6250  217.8820  62.2524 1044.910 184.0880 2014.410
## ORI_14635_14600  717.6830  329.9490  67.0482 1389.230 122.0690 1687.670
## ORI_14639_14602   66.1958  161.8030  24.6827 1895.790 185.9120 1805.000
##                   [,6910]  [,6911]  [,6912] [,6913]  [,6914]  [,6915]  [,6916]
## ORI_10219_10218  872.6750  545.522 1618.540 266.518  397.316  476.901  810.494
## ORI_10735_10730   77.6912  623.416 1581.560 526.600  905.634  460.238 1298.090
## ORI_14605_14585  129.1270  450.931 1982.760 433.990  754.631  521.865 1025.800
## ORI_14607_14586  377.6230  756.755 1145.480 340.412  826.244  670.268 1033.770
## ORI_14609_14587  298.8660  657.823 2265.090 460.159  698.801  732.030 1045.130
## ORI_14617_14591 1006.3600  912.447 1697.200 359.384  579.482  403.836  710.420
## ORI_14623_14594  557.0640  541.982 1449.010 408.518  766.764  458.261  844.051
## ORI_14629_14597  112.1960  587.193 1066.560 274.960  668.956  487.095  524.806
## ORI_14631_14598  147.1540  512.948 1462.810 410.985  853.181  689.786 1208.030
## ORI_14633_14599  258.7810  659.842 1359.820 377.807  690.710  637.237 1128.340
## ORI_14635_14600  254.3030  539.929 1267.570 472.184 1630.920  807.432 1112.520
## ORI_14639_14602  101.4360  566.334  892.072 438.943  749.374  698.197  906.494
##                  [,6917]  [,6918]  [,6919]  [,6920] [,6921]  [,6922]  [,6923]
## ORI_10219_10218  455.470 1822.600  437.187  764.854 256.888  451.771 4860.020
## ORI_10735_10730  690.043 2461.460  770.132 1399.090 460.242  926.787 2682.490
## ORI_14605_14585  678.929 1897.030  706.461 1121.340 491.005 1083.290 3153.570
## ORI_14607_14586  576.751 1873.900  518.538  899.427 404.131  860.538 3703.090
## ORI_14609_14587  759.292 2374.580  813.697 1103.480 518.565 1061.270 3170.550
## ORI_14617_14591  526.248 1359.060  411.462  885.415 320.442  678.148 4886.260
## ORI_14623_14594  577.714 1473.890  408.817 1130.390 363.249  865.366 3892.350
## ORI_14629_14597  602.859 1003.090  354.729  869.373 537.908  961.299 2834.980
## ORI_14631_14598  745.967 2336.040  898.368 1208.820 520.504 1185.380 2498.420
## ORI_14633_14599  809.105 1073.950  725.920 1223.080 492.914  823.656 3515.410
## ORI_14635_14600  805.161 2018.020  392.582 1551.150 469.316 1130.280 3095.130
## ORI_14639_14602  698.631 1211.020  697.056 1315.060 673.480 1035.790 2427.060
##                 [,6924]  [,6925] [,6926]  [,6927]  [,6928] [,6929] [,6930]
## ORI_10219_10218 468.378 224.1050 367.973  404.635 289.7500 574.773 345.172
## ORI_10735_10730 152.899 259.1910 517.839  388.081 401.0470 423.683 301.388
## ORI_14605_14585 244.464 123.4250 344.772  662.356 122.2890 498.970 401.632
## ORI_14607_14586 356.229 131.7070 215.904  656.509 241.0320 441.928 439.517
## ORI_14609_14587 517.890 242.0540 184.264  506.356 423.6420 399.087 339.196
## ORI_14617_14591 533.939  95.4088 379.281  493.651 260.3970 388.466 304.813
## ORI_14623_14594 479.761 225.6800 458.370  339.726  99.6652 413.652 400.836
## ORI_14629_14597 248.035 249.4720 561.947  599.579 571.6020 382.157 401.462
## ORI_14631_14598 369.529 165.0580 388.553  569.682 290.9280 433.485 371.369
## ORI_14633_14599 307.607 224.4590 385.810  654.002 167.2260 564.829 343.275
## ORI_14635_14600 252.370 203.8930 436.470  537.737 109.0080 579.460 333.706
## ORI_14639_14602 196.150 199.4280 406.959  954.410 228.4340 462.424 375.175
##                  [,6931] [,6932] [,6933] [,6934]  [,6935]  [,6936] [,6937]
## ORI_10219_10218  802.780 505.997 318.763 522.874 139.0080  457.357 278.118
## ORI_10735_10730  480.381 587.743 284.231 589.226 246.8750  506.278 321.213
## ORI_14605_14585  616.361 448.615 315.066 588.802 168.5770  401.863 419.791
```

```
## ORI_14607_14586  689.138 582.373 198.484 661.018 169.5320  128.053 352.917
## ORI_14609_14587  430.007 486.469 301.282 679.871 260.2720  231.943 433.146
## ORI_14617_14591  494.383 378.255 222.363 517.315 121.5840  201.002 520.581
## ORI_14623_14594  612.422 315.970 214.886 373.629  77.4595  350.188 275.995
## ORI_14629_14597  906.371 405.103 115.733 658.928 152.2320  138.407 398.328
## ORI_14631_14598  501.651 519.466 362.640 649.617 272.2850  192.021 344.097
## ORI_14633_14599  927.073 450.914 387.396 657.279 131.8000  303.900 498.619
## ORI_14635_14600  644.155 405.829 344.363 503.672 128.8240  275.407 443.716
## ORI_14639_14602  610.218 425.441 337.177 438.998 122.3870  464.638 338.861
##                  [,6938]  [,6939]  [,6940] [,6941]  [,6942]  [,6943]   [,6944]
## ORI_10219_10218 1153.940  832.258  377.470 575.805  363.891  45.8355  179.1570
## ORI_10735_10730 1698.930  885.003  432.785 664.647  834.167 138.4560  964.3890
## ORI_14605_14585 1118.730  880.061  637.296 662.608  629.969  39.4651  228.3940
## ORI_14607_14586 1228.640  761.833  867.124 832.217  518.742 286.2820  218.1070
## ORI_14609_14587 1483.900  943.503  902.460 576.489  774.866 242.4980  947.9690
## ORI_14617_14591 1135.850  828.460  663.571 431.029  519.439  30.1014  142.1620
## ORI_14623_14594 1134.990  607.387  530.693 415.146  515.556  39.8565  254.5280
## ORI_14629_14597  745.795  670.112  505.945 344.277  512.272  24.6827  161.4310
## ORI_14631_14598 1907.340  788.608  798.191 366.543  845.325 155.2020  284.5010
## ORI_14633_14599 1531.940  952.502  795.962 398.557  676.215  53.3034  283.1890
## ORI_14635_14600 1282.540  908.436  700.758 515.512  556.861  29.8757  270.4040
## ORI_14639_14602  797.393  840.933  209.902 541.143  364.638  24.6827  267.3050
##                 [,6945]  [,6946] [,6947]   [,6948] [,6949]  [,6950]  [,6951]
## ORI_10219_10218 227.456 198.6440 2803.78  137.0990 283.580 146.4490 1030.430
## ORI_10735_10730 274.841 213.6010 2136.55  799.3620 333.906 205.2140 1456.080
## ORI_14605_14585 302.994 269.8050 2986.19  102.8680 278.615 112.3730 1372.960
## ORI_14607_14586 442.735 117.9440 2666.34  433.0750 325.360 211.6150 1331.290
## ORI_14609_14587 243.311 215.4280 2647.37  835.7340 209.071  89.7064 1790.110
## ORI_14617_14591 171.801 122.5930 2817.95   24.6827 242.883 180.9210 1442.280
## ORI_14623_14594 375.034 123.0570 2080.53   55.3929 191.081 134.3890 1020.290
## ORI_14629_14597 290.002 204.5050 2564.61  200.7400 239.420 118.8970 1309.320
## ORI_14631_14598 338.424 176.6320 2666.90  735.8570 158.377 148.3850 1563.840
## ORI_14633_14599 299.967 181.5230 2842.26  759.1780 214.368  98.3328 1235.210
## ORI_14635_14600 335.130  86.5053 2381.70  169.4550 186.662 171.6020 1203.160
## ORI_14639_14602 335.529 115.2520 1625.12  190.1950 339.897  66.4891 1448.990
##                   [,6952]  [,6953]  [,6954] [,6955]   [,6956]   [,6957] [,6958]
## ORI_10219_10218  604.2720  233.335 1694.470 660.973 1454.5500   90.9166 339.793
## ORI_10735_10730 1392.2300  512.355 1000.440 440.068  792.2770 1531.3000 441.904
## ORI_14605_14585 1150.4100  442.996 2390.630 634.878 1501.3400 1443.9100 612.398
## ORI_14607_14586  749.9850  222.117 1522.110 419.283  247.8820  116.3690 308.128
## ORI_14609_14587  954.4120  597.497 2671.390 448.557  452.4060  885.6200 349.404
## ORI_14617_14591  741.3000  195.775 1784.340 253.476  598.0390 1346.2800 601.782
## ORI_14623_14594  408.9270  219.743 1505.280 395.480  421.7030  991.4540 623.477
## ORI_14629_14597  891.5350  181.762 3257.240 523.548  241.2150  435.4600 676.540
## ORI_14631_14598  542.9810  288.733 1568.230 400.769  199.8150  558.2590 315.034
## ORI_14633_14599  754.4580  383.213 3062.850 409.069   82.6802  685.5860 531.372
## ORI_14635_14600  539.3850  263.219 1450.810 416.316  492.4460 1380.3700 823.709
## ORI_14639_14602  135.3950  269.149  516.596 393.765 2494.6900 2138.3900 550.849
##                  [,6959]   [,6960]  [,6961]  [,6962]  [,6963]  [,6964]  [,6965]
## ORI_10219_10218  167.264  115.9630  43.5128  467.103  88.4731 1370.680 172.3390
## ORI_10735_10730  452.408 1824.8100 231.9180 1866.220 208.2350 2076.960 399.9740
## ORI_14605_14585  313.909  573.7470  94.0670 1732.340 120.2980 1906.160 292.3380
## ORI_14607_14586  128.219  185.6930  24.6827  501.645  35.5773 1038.880 470.6750
## ORI_14609_14587  242.009  625.2500  45.0287 1272.690 140.5970 3232.780 624.4870
```

```
## ORI_14617_14591  215.112  443.0120  98.8393 1797.150 160.3620 1143.370  69.7917
## ORI_14623_14594  388.532  540.9640 292.8070 2408.030 224.8750 1760.650 108.2850
## ORI_14629_14597  232.223  752.8420  36.6949  192.044 223.9560 3563.160  73.5509
## ORI_14631_14598  373.520  490.2050  62.8184  653.961 132.4820 2885.480 322.9860
## ORI_14633_14599  618.882  600.0360 202.9970 2228.370  62.1972 1923.670 179.0180
## ORI_14635_14600  422.404  679.9920 222.2650 2551.120 154.2190 1030.070 186.0000
## ORI_14639_14602  754.641  648.0050 147.9640 1805.340 146.4980  523.846  96.3010
##                 [,6966] [,6967] [,6968]  [,6969] [,6970]  [,6971]  [,6972]
## ORI_10219_10218 416.596 463.484 259.895  456.135 200.556  61.5425  32.1274
## ORI_10735_10730 440.113 614.175 211.444  648.681 239.744  82.9224  81.3041
## ORI_14605_14585 521.968 504.578 231.482  568.561 304.412  56.3592  24.6827
## ORI_14607_14586 524.054 606.332 238.661  467.777 161.783  54.4517  92.8590
## ORI_14609_14587 363.094 552.717 309.728  874.140 429.730 275.2200  99.1165
## ORI_14617_14591 192.727 570.240 270.581  511.825 136.112  42.8479  24.6827
## ORI_14623_14594 303.231 462.262 153.830  564.929 155.742  37.2878  24.6827
## ORI_14629_14597 341.562 458.846 288.297  764.093 171.791  38.5812 150.9840
## ORI_14631_14598 369.271 577.131 185.013  879.938 209.212  56.9286  83.5496
## ORI_14633_14599 390.895 394.070 272.554  685.016 167.733  50.7460  26.2713
## ORI_14635_14600 375.723 469.911 221.554  700.969 200.232  44.8072  24.6827
## ORI_14639_14602 314.389 190.335 184.156  826.536 143.103  24.6827  24.6827
##                 [,6973] [,6974]  [,6975] [,6976] [,6977]  [,6978]  [,6979]
## ORI_10219_10218 253.311 787.086  629.118 1679.99 6539.84 412.5880 104.8930
## ORI_10735_10730 362.397 575.318  659.056 5221.52 4761.35 245.8620 334.6370
## ORI_14605_14585 320.483 672.444  677.408 4845.00 5857.96 315.3050 144.1350
## ORI_14607_14586 202.870 747.229  419.583 5340.22 5600.58 229.3270 122.4530
## ORI_14609_14587 216.053 722.218  772.426 4439.53 4974.31 350.3210 204.1590
## ORI_14617_14591 203.446 653.057  432.978 3211.41 6348.06 633.1280 175.2540
## ORI_14623_14594 411.101 560.699  644.622 3527.47 6440.39 297.2960  44.1375
## ORI_14629_14597 297.073 677.103 1147.130 7744.40 5717.53 165.7750 230.7480
## ORI_14631_14598 328.980 679.923  611.015 5862.50 5535.66 352.4500 180.5210
## ORI_14633_14599 263.332 848.133  770.003 7073.07 7434.88 269.4830 129.2850
## ORI_14635_14600 388.019 526.540  787.930 3770.56 5330.46 357.2680  66.9608
## ORI_14639_14602 424.480 453.660  802.090 3961.18 3216.58 205.6060 134.9240
##                  [,6980]  [,6981]  [,6982]  [,6983]  [,6984]  [,6985]  [,6986]
## ORI_10219_10218 1179.180 1042.970  51.0097 241.8730  534.416  567.202  641.053
## ORI_10735_10730 1645.800 1095.670  96.6356 167.6000  674.918  531.085 1044.450
## ORI_14605_14585 1305.980 1500.850  64.3397 235.5990  653.248  711.327  888.068
## ORI_14607_14586 1372.830 1468.370  24.6827 266.2430  682.635  528.506 1133.370
## ORI_14609_14587 1794.980 1936.680  54.2397 215.1490  660.752  909.672 1368.020
## ORI_14617_14591 1317.020  948.786  30.1938 235.6970  432.123  539.179  791.791
## ORI_14623_14594 1070.110  822.868  59.2262 379.4830  575.783  596.882  605.197
## ORI_14629_14597  712.808 1555.740  30.4038 330.4770  484.212  542.998  726.428
## ORI_14631_14598 1930.270 1438.540  67.2636 247.8550  846.349  743.099  858.702
## ORI_14633_14599 1487.810 1481.660  89.7693 288.6120  615.905  450.089 1029.410
## ORI_14635_14600 1600.350 1626.370  73.1854 335.9250  613.543  619.214  770.239
## ORI_14639_14602 1147.070 1248.040 119.6530 353.0600  463.865  471.213  583.902
##                 [,6987]  [,6988] [,6989] [,6990] [,6991]  [,6992]  [,6993]
## ORI_10219_10218 414.843  625.255 390.441 114.357 754.258 127.9970 1060.430
## ORI_10735_10730 312.141  645.077 254.353 297.146 570.700 204.5140  394.910
## ORI_14605_14585 237.160  713.351 258.576 265.353 740.413 186.2800  360.122
## ORI_14607_14586 234.936  688.844 259.238 275.090 524.887 487.7900  556.864
## ORI_14609_14587 364.154  767.462 405.417 152.461 586.806 230.4050  564.420
## ORI_14617_14591 308.000  936.263 421.712 128.225 567.935  55.4728  454.589
## ORI_14623_14594 287.707  822.630 228.397 192.401 739.936  45.6910  672.269
```

```
## ORI_14629_14597 263.606  496.530 252.222 273.956 535.364  84.5768  426.533
## ORI_14631_14598 269.147  702.601 336.992 193.506 542.398 172.3430  675.745
## ORI_14633_14599 381.432  752.873 222.887 181.343 641.028  87.5960  403.518
## ORI_14635_14600 490.327  833.470 229.538 154.355 622.555  52.6866  326.311
## ORI_14639_14602 342.483  742.024 217.534 175.119 422.490  24.6827  339.484
##                  [,6994]  [,6995]  [,6996]  [,6997]  [,6998]  [,6999]   [,7000]
## ORI_10219_10218  507.256 2023.340 2350.180 2160.090 136.9010  598.062   75.3441
## ORI_10735_10730  211.995 1001.990 1311.390 2339.350 124.7310  388.009  285.5220
## ORI_14605_14585  341.002 2083.980 1702.950 1400.710 211.6460  453.152  154.2660
## ORI_14607_14586  783.220 2046.650 1375.250 1775.320 122.3320  489.518  558.7530
## ORI_14609_14587  395.895 2145.060 1384.910 2481.140  98.3432  604.285  241.5870
## ORI_14617_14591  713.943 1773.640 1763.000 2646.940 121.5960  881.753   98.7043
## ORI_14623_14594  306.039 2351.280 1120.760 1489.740 139.5780 1058.840   80.8345
## ORI_14629_14597  110.258 2317.120 1979.830 3262.450 113.8570  695.795  166.2050
## ORI_14631_14598  211.980 1799.580 1741.360  673.102 147.5760  344.884  288.5370
## ORI_14633_14599  289.794 2073.230  817.322 1296.030  87.8354 1406.630  105.9300
## ORI_14635_14600  296.289 2508.220 1043.720 1190.970 292.1070  773.654   97.7923
## ORI_14639_14602  160.242 1951.210 1225.050  826.270 183.6220  227.157  245.9520
##                 [,7001] [,7002] [,7003]  [,7004] [,7005]  [,7006]   [,7007]
## ORI_10219_10218 667.517 3429.57 340.299 143.8210 202.366  214.553  144.2920
## ORI_10735_10730 551.700 5152.91 226.840 237.0920 220.140  564.786  539.2160
## ORI_14605_14585 718.736 4603.02 234.374 102.7760 207.010  247.644  221.3500
## ORI_14607_14586 629.850 5017.42 285.163  90.8429 263.283  408.401  419.9140
## ORI_14609_14587 809.646 5891.08 203.520 158.7400 270.937  481.563  222.6170
## ORI_14617_14591 580.157 1426.11 245.538 105.2160 152.441  344.468  111.6670
## ORI_14623_14594 565.365 1551.00 244.986 162.7210 293.158  285.388  108.9320
## ORI_14629_14597 582.050 4807.38 270.041 137.9790 272.959 1135.950 1517.7900
## ORI_14631_14598 752.597 5878.03 226.587 129.4360 274.900  505.289  372.7750
## ORI_14633_14599 620.082 2403.15 289.307 169.6410 261.228  253.956  112.2360
## ORI_14635_14600 588.492 2978.24 285.089 148.8470 263.829  230.114  130.5000
## ORI_14639_14602 721.391 3214.75 266.823 200.2140 253.915  733.160  860.1050
##                  [,7008]  [,7009]  [,7010] [,7011]  [,7012] [,7013]  [,7014]
## ORI_10219_10218  362.234  227.266 129.3150 3100.78 244.8040 395.611  815.114
## ORI_10735_10730  519.392  393.033 157.0560 2094.38  67.9910 167.705 1244.130
## ORI_14605_14585  366.499  184.339 190.7130 2681.52  54.4732 196.492  797.732
## ORI_14607_14586  561.752  317.352 193.2330 2185.81  93.7233 248.128  722.738
## ORI_14609_14587 1166.690  424.711 467.5330 3048.58  49.9047 234.883 1151.690
## ORI_14617_14591  356.320  116.379 244.4920 3279.17 151.4050 343.764  937.935
## ORI_14623_14594  265.845  196.260 185.8930 2821.49 208.8300 314.339  665.298
## ORI_14629_14597 1750.790 1045.220 378.5360 3023.45  65.9302 173.862  974.278
## ORI_14631_14598  670.356  482.825 313.9630 2934.50  58.9290 167.042 1092.870
## ORI_14633_14599  408.237  180.546 261.5370 3225.38  94.1186 282.742  779.748
## ORI_14635_14600  237.311  176.946 284.2340 2526.72 153.7190 362.486  814.200
## ORI_14639_14602 1107.620 1170.250 299.0270 2431.53  71.0707 176.141 1088.820
##                 [,7015]   [,7016]  [,7017]  [,7018]  [,7019] [,7020]  [,7021]
## ORI_10219_10218 384.607   82.9384  349.689 118.2900 1656.570 319.867  500.018
## ORI_10735_10730 328.427  496.1660  622.703 508.3540 1815.380 650.705  402.082
## ORI_14605_14585 449.805  229.7590  347.572 316.2770 1791.590 348.850 1478.060
## ORI_14607_14586 411.122  663.0020  245.583 862.0520 2341.540 241.576  837.297
## ORI_14609_14587 360.548  503.0940  377.251 613.4530 2315.640 606.378 1452.840
## ORI_14617_14591 140.483   63.3616  337.812  85.3948 1196.250 228.680  924.168
## ORI_14623_14594 241.797  138.0020  780.446  26.6203  689.674 258.996  411.247
## ORI_14629_14597 250.291  141.6530  454.726 309.3390 2036.300 511.547  510.190
## ORI_14631_14598 247.679  312.3690  365.075 493.1230 2308.610 340.707  709.632
```

```
## ORI_14633_14599 242.431  162.7120  624.679 143.2350 2055.850 443.117  260.535
## ORI_14635_14600 204.450  131.0510  429.379  49.2784  993.903 428.589  466.025
## ORI_14639_14602 231.999  278.7580  518.398  64.5569 1143.090 392.081  222.369
##                 [,7022] [,7023]  [,7024]  [,7025] [,7026] [,7027]  [,7028]
## ORI_10219_10218 320.956 460.740  899.026  905.611 498.996 2532.27  624.618
## ORI_10735_10730 453.144 345.708  422.309 2202.350 630.763 2143.34 1025.770
## ORI_14605_14585 250.320 284.817  433.883 3092.790 498.979 3299.44  772.762
## ORI_14607_14586 259.121 399.694  491.461 1482.670 483.743 3505.84  873.004
## ORI_14609_14587 172.729 340.639  497.433 2126.620 373.197 3333.12 1140.210
## ORI_14617_14591 290.647 289.158 1097.820 1317.110 439.571 2964.60  722.654
## ORI_14623_14594 361.776 340.677  755.430 2197.120 453.209 2590.02  651.222
## ORI_14629_14597 219.194 253.715  218.422 1799.310 362.348 2903.66  591.731
## ORI_14631_14598 202.356 282.648  546.496 2078.790 707.609 3380.18  919.087
## ORI_14633_14599 536.094 309.122  537.186 2585.750 320.676 2470.20  755.865
## ORI_14635_14600 172.912 291.006  537.612 2043.170 453.016 3198.63  980.630
## ORI_14639_14602 399.331 252.276  572.870 2743.830 352.448 2851.27  684.919
##                 [,7029] [,7030]   [,7031] [,7032] [,7033]  [,7034]  [,7035]
## ORI_10219_10218 398.194 355.073  162.5950 1832.72 432.975 1388.700  508.557
## ORI_10735_10730 526.732 445.934  377.9160 1710.63 336.546  896.250  642.227
## ORI_14605_14585 529.168 351.290  196.0400 2386.27 336.024 1071.380  634.253
## ORI_14607_14586 516.193 303.025  208.5310 1934.52 296.776  648.322 1031.850
## ORI_14609_14587 639.652 493.113  333.6210 2545.72 373.683 1102.030  947.340
## ORI_14617_14591 519.171 387.781  212.9610 2166.52 470.621 1289.360  629.926
## ORI_14623_14594 521.344 292.599  126.0120 1804.96 299.812 1175.440  425.218
## ORI_14629_14597 580.272 256.049  181.0420 2332.00 200.963  980.814  567.213
## ORI_14631_14598 577.880 346.356  253.3860 2511.61 378.492  991.579  901.375
## ORI_14633_14599 845.019 306.432  267.7260 2734.19 372.212  908.780  746.148
## ORI_14635_14600 714.601 381.562  240.4400 2048.56 721.088 1097.960  750.155
## ORI_14639_14602 644.811 374.754  231.9600 2064.42 378.966 1046.200  748.512
##                  [,7036]   [,7037]   [,7038]  [,7039]  [,7040]  [,7041]
## ORI_10219_10218  511.340   24.6827  195.5060  260.115  857.653  793.224
## ORI_10735_10730  680.135  218.0780 1176.0200  441.726  839.982 1059.970
## ORI_14605_14585  427.393   63.0476  380.6350  325.269  854.200  966.785
## ORI_14607_14586  702.161  166.1170  236.5000  186.487  684.251 1165.250
## ORI_14609_14587  621.642  175.1930  866.4490  344.103  903.153 1137.720
## ORI_14617_14591  408.978   24.6827  200.1540  250.696  798.529  991.708
## ORI_14623_14594  415.923   24.6827  168.9160  269.192  737.104  999.799
## ORI_14629_14597  557.391  460.5200  528.0680  286.338  775.275  962.210
## ORI_14631_14598  835.765  129.3610  974.4230  363.968  860.305  948.660
## ORI_14633_14599  540.555   24.6865  391.4670  257.511  940.634 1248.260
## ORI_14635_14600  401.065   29.0927  129.1390  195.035  757.070 1088.640
## ORI_14639_14602  717.026   49.7841  402.1660  233.844  551.025  615.030
##                  [,7042] [,7043] [,7044] [,7045]  [,7046] [,7047]  [,7048]
## ORI_10219_10218  83.4366 287.896 562.193 296.022  542.276 528.775  74.0602
## ORI_10735_10730 313.0230 143.262 557.984 340.303  770.088 539.045 167.7820
## ORI_14605_14585 189.6450 206.970 535.607 315.473  754.166 608.157 125.2170
## ORI_14607_14586 224.7040 166.617 576.501 276.029  560.367 676.326 142.4040
## ORI_14609_14587 293.8290 227.563 591.407 297.069  934.997 751.587 109.9690
## ORI_14617_14591 132.9660 304.651 553.683 169.115  629.503 637.322  59.5091
## ORI_14623_14594 190.2070 202.230 535.110 363.907  623.234 552.085 150.1730
## ORI_14629_14597 197.4170 193.249 422.370 289.665  745.952 400.727  90.6096
## ORI_14631_14598 287.9970 167.055 469.200 324.020  737.509 631.087 142.9970
## ORI_14633_14599 260.2890 243.062 476.403 276.890 1116.910 509.213  94.1642
## ORI_14635_14600 266.1990 270.236 596.933 317.695 1145.510 428.408 127.0850
```

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## ORI_14639_14602 274.9170 298.591 487.421 370.781  809.588 329.118 105.2430
##                  [,7049]  [,7050] [,7051] [,7052]  [,7053] [,7054] [,7055]
## ORI_10219_10218  728.138  352.513 240.387 332.025  638.958 513.857 243.719
## ORI_10735_10730  796.206  896.136 407.543 346.195  751.036 455.842 368.075
## ORI_14605_14585  785.280  716.511 275.138 376.790  793.955 535.215 312.661
## ORI_14607_14586  894.282  785.143 281.742 397.735  728.995 721.695 251.374
## ORI_14609_14587  757.674 1081.210 488.539 348.285 1175.360 497.748 282.267
## ORI_14617_14591  959.507  495.109 321.856 858.768  431.527 506.929 215.401
## ORI_14623_14594  958.578  489.582 208.584 759.185  610.884 431.344 126.516
## ORI_14629_14597  838.422  744.154 333.567 307.290 2010.840 641.099 248.776
## ORI_14631_14598  840.231  938.830 257.940 252.495 1006.130 527.165 220.290
## ORI_14633_14599  988.345  828.848 291.078 404.401  968.576 441.913 191.764
## ORI_14635_14600 1053.400  804.128 252.566 471.725  658.681 342.066 222.673
## ORI_14639_14602  696.761  852.954 422.338 247.699 1030.710 478.262 322.249
##                 [,7056] [,7057]  [,7058]  [,7059]  [,7060]  [,7061]  [,7062]
## ORI_10219_10218 410.639 230.319  627.889  864.095  654.726  575.255 406.4310
## ORI_10735_10730 196.979 302.839 1469.800 1104.180  729.352  111.224 166.1530
## ORI_14605_14585 417.101 198.381  786.678 1202.730  952.979  225.948  74.3205
## ORI_14607_14586 362.245 285.724 1151.650 1742.160  901.126  361.839 202.7740
## ORI_14609_14587 616.849 331.807  921.760 1517.300  780.885  128.634 214.8900
## ORI_14617_14591 155.775 131.318  652.292  799.533  890.599  298.750 656.1140
## ORI_14623_14594 183.986 185.405  719.955 1002.240 1269.670  439.027 232.8130
## ORI_14629_14597 479.101 150.605  821.327  945.774 1082.320  161.753 103.3260
## ORI_14631_14598 539.356 259.750 1145.220 1354.250 1012.000  109.224 110.6080
## ORI_14633_14599 298.555 259.634  883.592 1516.020  865.452  193.968 132.4300
## ORI_14635_14600 114.063 199.228 1514.990 1139.450 1319.220  180.110 211.8590
## ORI_14639_14602 110.164 226.814 1531.720 1370.340 1212.080  215.807 124.2450
##                  [,7063]  [,7064]  [,7065]  [,7066]  [,7067] [,7068] [,7069]
## ORI_10219_10218  872.071 597.2110  481.406 191.8120  501.138 303.240 387.426
## ORI_10735_10730 1586.710  24.6827  969.040 272.5340 1687.280 386.830 313.428
## ORI_14605_14585 1199.430 663.0650  596.601  97.7120  975.195 193.513 346.793
## ORI_14607_14586 1481.200  47.4034  621.684 167.5830 3014.210 184.354 367.445
## ORI_14609_14587 1384.830 209.4020  957.498 206.0500 1163.710 274.128 490.539
## ORI_14617_14591 1187.580 111.5680  642.069 268.5240  287.212 192.949 358.686
## ORI_14623_14594  893.134  97.3969  463.992 151.8150  400.855 242.741 370.872
## ORI_14629_14597  966.086  34.2569  540.644 105.3090  470.630 223.067 314.027
## ORI_14631_14598 1499.940  24.6827  923.370 215.0910 1267.240 370.200 299.603
## ORI_14633_14599 1632.200  24.6827  581.810 184.6240  958.925 279.983 443.817
## ORI_14635_14600 1281.620 195.0610  447.685 197.0090  708.799 248.246 526.648
## ORI_14639_14602 1604.190  24.6827  407.263 176.4600  446.084 300.555 317.004
##                  [,7070]  [,7071] [,7072] [,7073] [,7074]  [,7075] [,7076]
## ORI_10219_10218  335.911 1122.840 397.070 325.198 435.403 198.4750 412.311
## ORI_10735_10730  921.742  997.828 284.939 297.786 434.785  89.4053 298.599
## ORI_14605_14585  512.338 1050.020 419.506 312.623 515.700 103.4150 472.138
## ORI_14607_14586  534.806  995.031 215.063 401.000 273.084 142.9650 440.716
## ORI_14609_14587  694.390 1474.400 160.687 312.000 453.251 108.2220 397.424
## ORI_14617_14591  603.279  625.698 256.053 420.500 378.299 205.2690 406.458
## ORI_14623_14594  383.375  948.714 568.819 291.948 348.107 200.5890 393.633
## ORI_14629_14597  661.726 1079.640 358.368 208.400 602.242 109.3280 394.123
## ORI_14631_14598  582.342 1224.250 285.903 232.412 547.610 120.3930 422.562
## ORI_14633_14599  608.921 1301.850 332.592 398.530 551.510 122.7490 157.601
## ORI_14635_14600  408.113 1072.810 396.963 431.633 798.227 181.1670 334.115
## ORI_14639_14602  703.156  507.681 346.439 339.595 417.550 116.7870 223.005
##                 [,7077] [,7078]  [,7079]  [,7080]  [,7081] [,7082] [,7083]
```

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## ORI_10219_10218 473.566 2166.95  899.737  448.509 252.7240 245.107 208.171
## ORI_10735_10730 465.466 2273.00 1720.150 1626.890 124.2120 154.579 261.106
## ORI_14605_14585 424.661 2533.08 1807.610  991.076 156.4250 283.772 303.222
## ORI_14607_14586 465.898 1861.77 1808.100 1576.140 198.5230 349.187 332.754
## ORI_14609_14587 441.768 2706.34 2568.320 1421.650 129.1670 281.242 232.237
## ORI_14617_14591 290.477 2429.72 1518.920  520.985 177.4070 165.479 217.277
## ORI_14623_14594 313.792 1962.59 1130.700  649.807 215.9830 192.211 366.324
## ORI_14629_14597 372.770 2457.34  924.696 1397.660 205.1420 222.795 271.868
## ORI_14631_14598 355.963 2520.04 1514.500 1432.300 156.5150 235.781 240.204
## ORI_14633_14599 451.236 2415.19  952.505 1339.330 165.6380 224.340 340.801
## ORI_14635_14600 394.300 2167.10 1020.200  835.739 209.7340 231.936 313.468
## ORI_14639_14602 369.625 1594.55  842.116  896.337 186.4540 147.477 234.084
##                  [,7084]  [,7085]  [,7086]  [,7087] [,7088]  [,7089] [,7090]
## ORI_10219_10218  419.378  843.476 105.7790  96.9628 448.491 109.3570 264.488
## ORI_10735_10730  377.316  681.600 344.7190 361.4080 510.656 113.6200 278.175
## ORI_14605_14585  435.513  929.334 128.3200  87.5947 373.605 125.2430 246.997
## ORI_14607_14586  811.590  965.874 208.3290 163.6300 307.492 308.3800 376.438
## ORI_14609_14587  431.265 1111.980 162.2180 142.3080 646.856 195.7440 294.220
## ORI_14617_14591  346.859 1029.520  88.5308  69.2938 560.729 102.4100 272.924
## ORI_14623_14594  413.587  709.955 122.1570 125.2990 355.375 105.0130 260.938
## ORI_14629_14597  359.068  934.326 168.4520 130.4840 509.368 244.9370 368.254
## ORI_14631_14598  309.599 1024.860 294.5140 168.1040 596.269 165.0840 351.173
## ORI_14633_14599  395.604 1013.990 130.1080 142.5970 502.064 135.7020 281.518
## ORI_14635_14600  374.499 1155.590 137.1800 183.6780 539.062 118.2520 230.636
## ORI_14639_14602  283.657 1016.460 170.0900 114.2240 539.026 112.1880 248.268
##                 [,7091] [,7092] [,7093]  [,7094]  [,7095]  [,7096] [,7097]
## ORI_10219_10218 300.495 152.337 366.258  156.730  407.303 1268.890 487.983
## ORI_10735_10730 481.899 284.219 556.885  770.747  603.428 1074.730 529.288
## ORI_14605_14585 480.264 264.747 318.566  209.340  584.269 1207.490 286.069
## ORI_14607_14586 512.975 453.828 406.175  296.536  828.823 1668.670 426.548
## ORI_14609_14587 421.849 221.383 401.172  269.685  693.171 1741.880 370.719
## ORI_14617_14591 452.185 128.981 381.812  130.774  596.477 1768.150 583.811
## ORI_14623_14594 303.625 198.305 381.292  146.303  630.487 1241.150 449.424
## ORI_14629_14597 443.562 221.283 358.669  958.354  459.140 1365.600 308.512
## ORI_14631_14598 509.077 353.485 339.876  709.611  773.259 1545.870 394.736
## ORI_14633_14599 379.626 217.487 425.903  249.974  840.162 1247.370 432.012
## ORI_14635_14600 401.038 256.550 391.485  165.694 1117.910 1425.200 391.065
## ORI_14639_14602 474.979 389.140 425.138  496.184  607.686 1515.190 443.126
##                  [,7098]  [,7099] [,7100] [,7101] [,7102] [,7103]  [,7104]
## ORI_10219_10218 134.6180  61.3364 164.937 431.741 650.586 107.684 2574.600
## ORI_10735_10730 423.2260 391.6270 384.670 508.537 400.747 243.638 1124.100
## ORI_14605_14585 246.3430  24.6827 230.660 468.060 586.249 206.970 2180.610
## ORI_14607_14586 192.2260 108.7140 698.669 474.638 422.232 132.728  951.180
## ORI_14609_14587 346.8300  28.2047 448.695 706.521 648.541 176.438 1182.270
## ORI_14617_14591 121.3080  63.0433 204.150 459.993 770.772 106.314 2171.450
## ORI_14623_14594 108.4830  24.6827 195.242 609.030 492.577 228.505 2382.800
## ORI_14629_14597 198.9900  53.0783 125.151 636.793 900.267 204.560  846.458
## ORI_14631_14598 270.5580  83.7831 311.608 754.774 607.074 255.293  984.416
## ORI_14633_14599 174.4550  24.6827 258.420 863.159 476.509 208.264 1845.040
## ORI_14635_14600 102.3170  24.6827 232.196 782.027 607.417 259.671 1933.980
## ORI_14639_14602  90.4176 568.9440 268.727 524.534 403.430 374.778 1548.570
##                   [,7105]  [,7106]   [,7107] [,7108] [,7109] [,7110]  [,7111]
## ORI_10219_10218 2244.5400 244.2680 2398.4100 521.868 616.636 250.322 1851.910
## ORI_10735_10730 1221.4900 211.4420 1228.9200 238.057 516.902 434.438 1531.600
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## ORI_14605_14585  307.5770 115.1960 1068.6500 288.603 527.806 358.229 1608.330
## ORI_14607_14586  861.9680 117.9900  438.5730 228.699 586.804 219.059 1429.790
## ORI_14609_14587  396.8250 114.1150  476.8780 316.367 492.605 383.549 1637.470
## ORI_14617_14591 2530.9700 270.2530 1410.1100 425.686 514.066 287.973 1992.930
## ORI_14623_14594  864.6640 250.4630 1087.9100 335.780 532.899 231.978 1585.340
## ORI_14629_14597  115.4400  99.9633  295.8370 175.965 663.302 446.340 1635.110
## ORI_14631_14598  220.6270 164.1640  247.8400 331.699 690.894 566.909 2040.660
## ORI_14633_14599  447.6030 189.9360  402.3050 313.543 604.793 311.932 1915.480
## ORI_14635_14600  715.5060 223.9680 1087.8800 274.834 584.834 281.635 1809.710
## ORI_14639_14602  802.7390 289.3640  962.0180 192.283 575.990 414.705 1733.930
##                 [,7112] [,7113] [,7114]  [,7115] [,7116]  [,7117]  [,7118]
## ORI_10219_10218 394.086 293.754 245.083  866.800 185.650  958.899  674.475
## ORI_10735_10730 393.300 338.170 202.554  835.143 432.493  888.390  609.767
## ORI_14605_14585 297.221 314.559 221.225  856.182 329.508  795.212  775.104
## ORI_14607_14586 352.267 280.958 320.006  807.982 333.669  857.395  861.913
## ORI_14609_14587 386.161 273.793 227.817  805.930 305.488  701.685 1009.930
## ORI_14617_14591 272.839 298.139 321.325 1080.070 231.335 1098.460  816.694
## ORI_14623_14594 412.339 276.868 294.044  893.201 261.143  633.816  508.771
## ORI_14629_14597 395.642 208.126 356.342  677.984 264.729  561.431  634.850
## ORI_14631_14598 338.573 204.365 302.078  988.206 353.069  987.328  803.690
## ORI_14633_14599 322.845 198.306 260.761  907.370 355.670 1013.130  737.579
## ORI_14635_14600 370.545 244.878 297.451  899.166 339.241  741.906  640.526
## ORI_14639_14602 367.183 199.837 239.072  730.411 454.576  413.229  637.837
##                 [,7119]   [,7120] [,7121] [,7122] [,7123] [,7124]  [,7125]
## ORI_10219_10218 467.255  615.3210 333.550 609.032 246.712 611.995 2799.180
## ORI_10735_10730 504.855   81.3049 374.037 567.702 185.944 833.037  731.766
## ORI_14605_14585 545.291   86.2810 396.336 552.340 264.550 681.584  569.680
## ORI_14607_14586 391.143  249.7800 551.957 429.398 303.633 559.135 1428.550
## ORI_14609_14587 591.752  147.3060 424.960 593.868 254.530 659.904  823.596
## ORI_14617_14591 594.228  750.8420 243.066 460.180 181.767 629.828 3022.720
## ORI_14623_14594 337.414  369.2540 259.389 468.636 110.019 386.939 2046.390
## ORI_14629_14597 370.976  123.9060 329.102 396.588 112.189 373.854  517.390
## ORI_14631_14598 460.373   87.6136 395.225 574.050 161.806 535.807  780.413
## ORI_14633_14599 524.646  159.7090 384.935 468.977 218.127 626.068 1299.940
## ORI_14635_14600 458.695  206.3080 322.953 461.103 206.030 416.461 1756.320
## ORI_14639_14602 367.897   95.8314 262.087 525.949 128.325 299.892 1262.960
##                  [,7126]  [,7127]  [,7128] [,7129]  [,7130] [,7131]   [,7132]
## ORI_10219_10218 119.4790  649.675 498.6450 701.287 1045.280 335.229  196.2480
## ORI_10735_10730 147.8300  567.207 276.1670 398.392 1096.000 470.473 1156.9200
## ORI_14605_14585  90.1002  908.323 348.4450 438.544 1015.880 367.484  315.9530
## ORI_14607_14586 289.8920  546.118 351.0270 303.202  817.617 529.924 1358.7300
## ORI_14609_14587 153.9180  911.734 236.2330 530.041  939.289 801.043  364.9400
## ORI_14617_14591  34.6815  808.605 248.9690 789.887 1109.110 277.183  148.9590
## ORI_14623_14594  63.2894  548.582 483.3510 349.421  826.475 207.815  436.5880
## ORI_14629_14597  73.4827  497.219 348.0440 380.612  905.573 262.330   87.9527
## ORI_14631_14598 119.5190  782.709 247.0130 602.593 1105.790 595.560  762.8450
## ORI_14633_14599  91.0604  696.542 406.4890 326.216 1120.430 500.754  165.0580
## ORI_14635_14600  68.3459  758.319 291.4740 425.724  994.396 361.826  475.3280
## ORI_14639_14602  59.7245  589.724 328.6210 409.312 1224.740 228.594  136.5840
##                  [,7133]  [,7134]  [,7135]  [,7136]   [,7137]  [,7138]  [,7139]
## ORI_10219_10218  446.130  760.348 174.7060  676.717 1677.7000 1290.830 1131.800
## ORI_10735_10730  693.364  717.364 196.1930 1297.150  143.7600 1210.980 1321.210
## ORI_14605_14585  439.431  768.207 211.2480 1032.100   90.8263 1309.030  835.910
## ORI_14607_14586  848.831  855.681  99.1715 1352.860  663.8770 1408.160 1392.010
```

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## ORI_14609_14587  619.652  811.717 100.7640 1537.110  220.9230 1553.800 1239.370
## ORI_14617_14591  684.973  812.165  99.9040  795.996 1696.6100  963.154 1477.630
## ORI_14623_14594  537.334  939.512 263.0360  568.192  808.2960 1286.790 1008.840
## ORI_14629_14597  639.496 1011.510 108.3850 1320.760  159.9220 1743.560  847.466
## ORI_14631_14598 1053.960 1103.240 176.0180 1544.920  121.8810 1359.330 1125.760
## ORI_14633_14599  484.872  723.754 204.9990  852.801  313.0000 1464.140  998.122
## ORI_14635_14600  514.689  843.845 226.9060  580.000  501.4400 1068.840 1044.660
## ORI_14639_14602  396.629  675.667 211.0930  932.354  288.7810 1833.650  602.841
##                 [,7140]  [,7141] [,7142]  [,7143] [,7144] [,7145]  [,7146]
## ORI_10219_10218 288.151  751.147 482.470 1006.430 779.614 254.842  530.445
## ORI_10735_10730 282.726 1195.050 497.365  721.433 807.068 368.460  772.480
## ORI_14605_14585 270.356  672.724 457.774  915.748 533.263 357.142 1000.960
## ORI_14607_14586 245.801  634.571 476.130  672.240 466.404 345.341 1053.570
## ORI_14609_14587 299.067  892.000 558.727  800.041 562.600 283.047 1091.210
## ORI_14617_14591 275.291 1045.260 530.456  687.890 567.339 400.511  777.824
## ORI_14623_14594 280.090  888.330 352.315 1048.930 449.890 411.042  573.228
## ORI_14629_14597 219.372  820.767 481.434  409.716 562.837 366.469  729.721
## ORI_14631_14598 312.864  611.337 623.783  820.257 465.904 360.837 1135.010
## ORI_14633_14599 271.660 1074.520 581.437  656.494 523.003 415.282  628.958
## ORI_14635_14600 256.673 1190.540 416.219  892.981 505.709 411.473  721.938
## ORI_14639_14602 211.659 1155.070 754.990 1082.380 383.922 409.918  566.885
##                 [,7147] [,7148] [,7149]   [,7150]   [,7151] [,7152]  [,7153]
## ORI_10219_10218 241.881 316.656 232.725 1992.6300 1391.7400 257.231 151.5690
## ORI_10735_10730 383.880 519.416 212.888  686.4340  117.1760 371.087 234.5990
## ORI_14605_14585 347.224 427.926 271.080  436.0230  257.6550 189.411 199.2110
## ORI_14607_14586 311.472 314.928 187.477  534.9450  570.7340 119.083 661.5010
## ORI_14609_14587 358.142 290.133 197.018  509.4100  229.2890 134.035 192.9540
## ORI_14617_14591 355.588 341.618 169.993 1625.1200 1567.7400 388.195 135.5130
## ORI_14623_14594 271.388 451.703 200.670  994.1520  804.7860 255.976 172.5290
## ORI_14629_14597 325.849 437.919 231.672  621.6600  216.3540 126.511 553.2760
## ORI_14631_14598 318.067 309.218 197.919  533.1740  252.8190 209.764 245.3560
## ORI_14633_14599 332.706 411.846 256.128  735.5790  368.8490 273.357 113.1610
## ORI_14635_14600 421.787 384.164 208.515  668.8070  501.9600 260.442 175.2230
## ORI_14639_14602 321.171 366.707 258.334  621.3070  306.3910 268.661 216.1080
##                  [,7154]  [,7155]  [,7156] [,7157]   [,7158]  [,7159]  [,7160]
## ORI_10219_10218 269.7830  483.652  90.6356 292.790 2141.7900 584.0970  83.2500
## ORI_10735_10730 346.5690  648.662 106.6870 380.162   72.7335 104.4160 103.9490
## ORI_14605_14585 335.0320  603.241 118.0320 229.069  130.7860 114.7990 121.2810
## ORI_14607_14586 441.2550  688.436 236.5220 226.220  825.0440 172.0030  96.9229
## ORI_14609_14587 607.1250  772.676 247.0420 395.752  285.6820 115.2250 209.9690
## ORI_14617_14591 197.2860  507.115  24.6827 236.929 1815.4400 601.9720  44.1363
## ORI_14623_14594 110.3620  440.239  24.6827 270.033 1137.6600 414.9550  41.1098
## ORI_14629_14597 512.5850  472.297  28.3209 286.317  236.8690 146.9400  65.9823
## ORI_14631_14598 377.2830  715.671 149.3640 236.436  257.3900 138.9730 252.5770
## ORI_14633_14599 193.3950  675.530 119.3790 283.410  452.1430 170.0230  58.6166
## ORI_14635_14600 188.8710  587.980  24.6827 259.135  531.3140 208.7100  47.8941
## ORI_14639_14602 324.8720  410.995  24.6827 224.264  382.1040 148.7050  24.6827
##                 [,7161]  [,7162] [,7163]   [,7164]  [,7165]   [,7166]  [,7167]
## ORI_10219_10218 257.689  939.299 148.494 1072.1300 459.8300 1229.1100 1018.810
## ORI_10735_10730 653.205  511.785 534.324  451.1910 433.3070  427.9300  384.642
## ORI_14605_14585 542.468  669.214 245.203  285.2350 817.1450  150.5330  299.217
## ORI_14607_14586 464.665  934.185 172.363  447.2020 914.0040  554.8590  410.050
## ORI_14609_14587 695.768  768.828 512.568  318.4230 568.2100  243.1700  600.516
## ORI_14617_14591 225.711 1172.390 202.395 1342.3900 189.6630 1526.9000  955.659
```

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## ORI_14623_14594 359.138  551.633 341.095  685.6940 162.9330  875.9800  649.840
## ORI_14629_14597 366.692  523.253 565.240  268.9490 173.8630  344.5740  294.350
## ORI_14631_14598 655.896  426.544 260.803  242.4280 496.9190  170.5520  534.813
## ORI_14633_14599 512.669  686.256 556.868  457.9050 354.7550  345.2550  435.625
## ORI_14635_14600 585.599  514.913 313.189  421.7880 283.2690  390.6860  671.574
## ORI_14639_14602 397.096  322.290 329.856  428.5090  66.7648  213.2950  484.698
##                  [,7168] [,7169]  [,7170]   [,7171]  [,7172]   [,7173]  [,7174]
## ORI_10219_10218 639.9620 374.132  475.912 1890.4800  684.001 3691.1900 1908.680
## ORI_10735_10730 229.2650 404.871  740.508  199.9710  845.807  119.8940 2282.310
## ORI_14605_14585 604.7450 458.100  601.533  195.4370  833.269  256.6580 1682.720
## ORI_14607_14586 307.6530 572.783  721.163  513.3880  614.527 1708.7700  992.393
## ORI_14609_14587 296.7980 673.666  512.185  241.1160  928.601  695.0590 1196.490
## ORI_14617_14591 244.3650 374.792  394.228 1286.6800  537.851 4097.5500 2173.550
## ORI_14623_14594 256.5690 406.005  403.526  593.5620  450.388 2436.6600 1752.270
## ORI_14629_14597 464.6110 593.287  453.682  173.9410  793.624  363.3930 1756.610
## ORI_14631_14598 207.1990 451.707 1094.880  139.3080 1254.100  523.2480 1481.450
## ORI_14633_14599  97.3646 521.520  339.426  411.7460  324.863 1330.2700 1576.880
## ORI_14635_14600 317.5950 262.126  383.452  330.5560  514.298 1798.8200 1340.850
## ORI_14639_14602 146.6750 285.006  403.625  309.8680  444.281  925.2580 1537.610
##                 [,7175] [,7176]  [,7177] [,7178] [,7179]   [,7180]  [,7181]
## ORI_10219_10218 427.116 476.060 415.3740 496.992 688.480  222.7980  503.823
## ORI_10735_10730 398.251 291.724  24.6827 374.607 442.187   24.6827  293.388
## ORI_14605_14585 483.564 463.156  27.9426 480.039 498.625   29.5225  359.679
## ORI_14607_14586 432.043 300.892 119.7660 426.500 391.496   81.8682  427.953
## ORI_14609_14587 285.313 280.656  43.4478 466.828 351.968  121.8390  445.796
## ORI_14617_14591 291.487 371.544 228.1280 449.217 580.100  170.5710  371.512
## ORI_14623_14594 569.171 610.437 157.2910 455.605 530.819   75.3164  373.904
## ORI_14629_14597 523.845 395.744  30.6336 445.686 202.812   38.7266  411.799
## ORI_14631_14598 458.646 351.494  35.9635 449.273 377.231   40.4497  313.247
## ORI_14633_14599 595.067 362.530  53.7763 320.095 575.197  392.7410  409.372
## ORI_14635_14600 594.304 448.868  59.1588 388.817 599.973   37.2156  363.361
## ORI_14639_14602 584.400 476.188  25.5689 322.097 363.328   75.1193  316.432
##                  [,7182]  [,7183]   [,7184]   [,7185]  [,7186]  [,7187] [,7188]
## ORI_10219_10218 2270.020 212.8610   24.6827   57.9943  444.168  795.504 311.958
## ORI_10735_10730 1366.630 267.4760  207.8860   49.7094  932.733 1056.220 372.400
## ORI_14605_14585 1870.890 140.6070  105.7910   81.5776  505.978 1132.310 334.722
## ORI_14607_14586 2128.020 167.2260   88.4280   66.1267  616.495 1314.180 300.477
## ORI_14609_14587 2201.350 207.7480  142.3660   51.0033  593.040 1075.570 346.683
## ORI_14617_14591 2205.690 431.4140   33.4118   49.9082  549.670  647.252 312.765
## ORI_14623_14594 1281.170 283.9400  135.0300   62.8546  464.418  600.394 228.862
## ORI_14629_14597 1665.810 416.7490   66.6151   71.8728  789.666  982.960 172.144
## ORI_14631_14598 1277.930 148.4040  144.4850   67.4622  587.351 1379.900 348.596
## ORI_14633_14599 2337.680 268.6040   89.3881   59.7500  606.270  993.740 319.281
## ORI_14635_14600 1247.000 289.5880  100.6320   46.5426  561.139  549.706 339.720
## ORI_14639_14602 1214.360 739.2220  325.2500   41.2609  529.545 1045.470 250.654
##                  [,7189] [,7190] [,7191] [,7192]  [,7193]  [,7194] [,7195]
## ORI_10219_10218 269.4100 188.149 244.885 284.361  352.795  736.572 508.877
## ORI_10735_10730 276.9250 291.199 490.330 253.608  650.964  888.174 419.455
## ORI_14605_14585 271.1720 308.334 316.358 297.822  921.051  715.371 366.637
## ORI_14607_14586 142.1700 246.859 296.832 298.912  435.561  703.299 429.643
## ORI_14609_14587 265.8310 352.631 453.285 311.149  452.838 1136.250 483.102
## ORI_14617_14591 166.4190 381.077 379.491 306.700  521.004  739.237 479.520
## ORI_14623_14594 259.8160 336.321 416.742 361.312  520.822  617.986 302.788
## ORI_14629_14597 208.0700 246.454 327.486 346.351  647.226  514.702 328.625
```

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## ORI_14631_14598 270.0070 365.674 403.413 307.635  536.264  996.521 393.067
## ORI_14633_14599 174.1420 252.000 321.288 355.823  491.279 1067.840 458.539
## ORI_14635_14600 180.5450 457.384 450.197 410.498  466.109  957.304 531.328
## ORI_14639_14602 162.5770 334.102 339.689 417.132  444.425 1049.300 302.956
##                  [,7196]  [,7197]  [,7198]  [,7199] [,7200]   [,7201]  [,7202]
## ORI_10219_10218  368.574  372.231 565.0620 1643.970 326.970  153.9720  626.481
## ORI_10735_10730  526.234 2956.970  36.9184 1199.300 416.054  534.8210 1551.070
## ORI_14605_14585  449.878 1182.170  39.7772 1485.260 435.661  368.0840  854.046
## ORI_14607_14586 2646.270 1625.470 120.8590 1497.600 645.134  756.6450 1817.290
## ORI_14609_14587 1854.510 1564.800 130.4440 1534.530 750.140  917.8680 1262.820
## ORI_14617_14591  101.943  175.038 147.9730 1066.830 333.635  138.4640  620.663
## ORI_14623_14594  319.061  241.068 139.4290  811.536 367.429  143.8690  545.635
## ORI_14629_14597  248.146 1290.360  24.6827 1046.520 463.634  289.6420  605.292
## ORI_14631_14598  815.745 1380.420 159.0730 1512.400 652.978  398.3070 1162.890
## ORI_14633_14599  198.752  289.204  36.4362 1297.840 418.905  243.4270  914.854
## ORI_14635_14600  156.162  207.976  24.6827 1014.900 341.400  183.1600  529.159
## ORI_14639_14602  518.435  913.610  24.6827 1157.560 328.158  285.6940  523.253
##                 [,7203]  [,7204] [,7205] [,7206] [,7207]  [,7208] [,7209]
## ORI_10219_10218 324.210  791.649 309.640 243.420 725.027 1082.870 297.802
## ORI_10735_10730 214.241 1017.370 562.103 296.209 408.218 1674.510 454.936
## ORI_14605_14585 369.806  889.065 387.693 333.438 621.351 1339.790 372.198
## ORI_14607_14586 413.018  880.359 486.867 338.257 469.045 1268.560 455.234
## ORI_14609_14587 379.357 1146.640 517.963 356.734 421.847 2314.740 434.689
## ORI_14617_14591 547.643  864.789 414.657 294.127 402.484 1716.320 231.258
## ORI_14623_14594 450.246  771.435 335.555 413.025 507.008 1263.080 249.949
## ORI_14629_14597 365.868  849.698 411.156 477.161 649.214 1697.280 361.662
## ORI_14631_14598 347.370 1007.760 506.220 389.219 683.377 1812.750 476.476
## ORI_14633_14599 450.503  765.769 485.388 322.406 308.964 1981.440 229.307
## ORI_14635_14600 512.489  907.735 483.254 410.390 343.133 2087.240 186.129
## ORI_14639_14602 341.601  770.294 535.839 229.758 280.581 1243.990 335.634
##                 [,7210] [,7211]  [,7212]  [,7213]  [,7214] [,7215]  [,7216]
## ORI_10219_10218 465.947 453.944 154.2980 250.2780 306.3750 606.815  568.876
## ORI_10735_10730 455.696 305.461 470.2520 240.6090 410.9460 431.388  998.061
## ORI_14605_14585 360.851 355.565 316.5920 198.1900 331.2540 508.372 1181.500
## ORI_14607_14586 315.023 373.998 361.6870 141.2950 308.5780 382.056  871.349
## ORI_14609_14587 387.664 435.703 342.6040 299.3410 377.8630 466.987  814.960
## ORI_14617_14591 311.913 228.768 181.5520 224.9140 483.8310 443.100  979.782
## ORI_14623_14594 431.089 278.192 165.9690 156.8570 347.9000 440.435  956.601
## ORI_14629_14597 314.016 343.510 217.6480  87.7690 361.9730 232.158  862.257
## ORI_14631_14598 339.986 395.059 426.3940 160.0850 231.2870 521.859 1006.940
## ORI_14633_14599 409.765 411.165 251.4620 176.9420 467.8910 374.734  836.198
## ORI_14635_14600 393.012 377.008 217.1820 177.7470 432.2680 361.253  907.740
## ORI_14639_14602 377.745 250.436 336.7430  62.7286  94.1862 183.856  701.931
##                 [,7217]  [,7218]   [,7219] [,7220]  [,7221] [,7222]  [,7223]
## ORI_10219_10218 186.577  818.208  199.7860 540.127 160.2830 598.536 1741.390
## ORI_10735_10730 234.849  959.784  219.8040 365.744 184.8330 546.658  854.900
## ORI_14605_14585 157.977  840.667  157.1970 435.412 166.3320 699.797 1304.900
## ORI_14607_14586 525.301  872.182  174.1430 311.384 161.5410 614.764  815.609
## ORI_14609_14587 464.155 1256.480  229.4520 288.486 313.7230 660.255  795.188
## ORI_14617_14591 196.206  805.460  260.6530 309.855 115.2450 640.120 1152.120
## ORI_14623_14594 158.185  579.939  176.2780 405.776 216.9510 585.047 1419.140
## ORI_14629_14597 168.148 1195.440   80.9349 453.682 154.2190 564.379 1136.360
## ORI_14631_14598 203.244  965.107  205.3070 392.740 344.1930 670.443  863.817
## ORI_14633_14599 392.098 1021.390  171.6470 461.689 174.0510 574.647 1189.140
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## ORI_14635_14600 219.885  948.240  251.1220 413.910 147.4210 662.307 1299.410
## ORI_14639_14602 185.046 1009.610  184.1860 489.735 104.9750 624.132 1049.250
##                 [,7224]  [,7225] [,7226] [,7227]  [,7228]  [,7229]  [,7230]
## ORI_10219_10218 392.800 110.7290 100.938 322.979 132.4420  856.284  478.107
## ORI_10735_10730 297.971 222.4740 212.125 283.136 178.2860 1103.070  335.800
## ORI_14605_14585 250.232 127.2960 208.608 432.516 187.4550 1313.920  227.593
## ORI_14607_14586 216.089 112.1980 155.490 379.635 438.0520  907.414  284.832
## ORI_14609_14587 252.207 181.5460 220.228 245.796 363.3790 1801.020  422.413
## ORI_14617_14591 298.876  93.9457 170.132 416.277  52.0790 1122.310  635.956
## ORI_14623_14594 281.043 124.6640 135.881 445.350  77.6902 1134.140  369.118
## ORI_14629_14597 135.808 203.1970 259.780 383.435  59.3810  952.723  349.041
## ORI_14631_14598 280.519 221.5810 173.566 294.396 178.5040 1776.140  359.102
## ORI_14633_14599 303.225 156.0850 331.297 408.198 171.6710 2156.230  615.232
## ORI_14635_14600 386.496 171.0010 191.554 431.138 113.5820 1211.970  428.238
## ORI_14639_14602 180.266 126.2120 181.806 324.665  52.1654 1111.790  521.621
##                  [,7231]  [,7232] [,7233] [,7234] [,7235]  [,7236] [,7237]
## ORI_10219_10218  472.950 1209.700 295.999 274.490 245.010  757.789 525.306
## ORI_10735_10730  460.155  970.247 438.613 467.511 194.452 1379.140 378.101
## ORI_14605_14585  439.771 1146.860 403.531 353.615 210.800 1848.420 375.887
## ORI_14607_14586  460.596 1339.850 386.907 359.333 186.734 1088.720 491.368
## ORI_14609_14587  682.543 1237.080 451.652 457.862 213.042 1501.580 506.366
## ORI_14617_14591  605.226 1010.570 397.454 422.963 205.756 1719.910 523.650
## ORI_14623_14594  387.228  777.998 347.077 383.998 227.233 2116.340 351.670
## ORI_14629_14597  340.788  835.195 356.522 212.953 253.842 2205.440 286.179
## ORI_14631_14598  339.094 1187.020 530.130 432.026 212.113 1492.210 333.451
## ORI_14633_14599  666.440 1294.090 383.108 470.999 239.353 1648.010 335.320
## ORI_14635_14600  638.198  993.713 579.351 572.480 281.045 2843.280 315.650
## ORI_14639_14602  444.954 1121.040 239.395 433.822 240.794 1646.920 408.911
##                 [,7238] [,7239] [,7240] [,7241]  [,7242]  [,7243] [,7244]
## ORI_10219_10218 301.633 265.774 2435.69 194.500 225.8450  725.197 380.628
## ORI_10735_10730 124.911 526.988 2056.13 414.430 381.5240 1264.690 597.059
## ORI_14605_14585 275.887 284.209 2767.51 378.003 215.3980 1045.260 400.316
## ORI_14607_14586 189.997 299.183 2493.29 347.534 300.0610  892.910 341.229
## ORI_14609_14587 159.487 541.399 2732.63 283.542 252.6350 1201.820 395.590
## ORI_14617_14591 300.852 252.487 3146.61 527.431 346.3540 1735.480 431.905
## ORI_14623_14594 533.459 434.905 3188.68 664.930 234.1520 1669.400 518.386
## ORI_14629_14597 247.771 233.110 3103.86 181.883 544.0840 1280.680 352.993
## ORI_14631_14598 189.766 387.667 2729.43 256.636 158.4050  821.636 358.246
## ORI_14633_14599 270.057 501.426 3082.03 731.667 315.2960 1935.360 643.351
## ORI_14635_14600 355.780 405.189 2758.26 745.708 295.2010 1854.930 678.120
## ORI_14639_14602 248.443 601.107 2686.10 403.783 173.0240 2405.100 480.465
##                 [,7245]  [,7246]   [,7247]  [,7248]  [,7249] [,7250]   [,7251]
## ORI_10219_10218 227.653 417.5830  113.2220 140.1190  830.888 353.089  930.9430
## ORI_10735_10730 328.993 194.2930  245.7190 233.5120  942.604 490.473 1024.1100
## ORI_14605_14585 326.297 489.8070  147.3160 208.5970 1063.620 479.086  672.7090
## ORI_14607_14586 473.596 240.3660  508.2960 413.2610 1044.520 363.942  991.1700
## ORI_14609_14587 358.008 288.7440  232.7810 276.4270 1042.270 467.423 1210.2200
## ORI_14617_14591 247.816 372.8410  104.6490 118.8070 1050.380 318.965 1112.9900
## ORI_14623_14594 261.224 259.6370   52.1786 147.5460  960.484 340.061  649.7990
## ORI_14629_14597 273.383 315.0680  155.5880 126.8630  959.122 371.678  965.4520
## ORI_14631_14598 459.031 241.4780  214.0150 261.5760 1167.110 604.119 1036.2700
## ORI_14633_14599 288.028 232.2550   97.4872 241.8600 1209.060 557.070  361.1070
## ORI_14635_14600 368.911 255.0430  108.8470 113.2170 1678.560 337.368  410.3320
## ORI_14639_14602 207.187 160.5640   75.0620 183.9990 1019.560 355.926  771.4090
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##                  [,7252]  [,7253]  [,7254]  [,7255]   [,7256] [,7257]  [,7258]
## ORI_10219_10218  712.219 1036.890 2604.180 140.2330   78.4336 328.636  791.003
## ORI_10735_10730 1501.080  652.870 1671.110 274.6840   68.3877 415.950  635.955
## ORI_14605_14585 1272.530  834.558 2185.760 181.1740   54.9152 466.070  766.874
## ORI_14607_14586 1490.880  868.092 1996.940 229.6890  274.1780 326.814  633.342
## ORI_14609_14587 1897.090  820.137 2145.200 292.3670   60.4290 423.090  963.895
## ORI_14617_14591  514.826  975.608 2586.630 184.9950   54.1827 429.047 1194.130
## ORI_14623_14594  688.711  858.841 1600.610 132.4590   60.7983 315.443  822.030
## ORI_14629_14597 1047.830 1128.950 1075.220 414.4240   50.1346 310.150  797.344
## ORI_14631_14598 1515.210  926.589 1800.190 270.6230  120.8730 379.558  700.337
## ORI_14633_14599 1880.780  937.734 2138.110 222.9420   52.3587 320.533  794.599
## ORI_14635_14600 1416.560  852.519 1923.840 167.2620   55.2119 323.681 1051.200
## ORI_14639_14602 1138.240  717.818 1252.390 230.9360   44.6816 225.565  617.335
##                 [,7259] [,7260]  [,7261]  [,7262] [,7263]  [,7264]  [,7265]
## ORI_10219_10218 1739.23 1681.88  972.898 1246.540 462.718  772.589 1545.470
## ORI_10735_10730 1911.07 2330.59  894.219 1184.370 415.180  544.621  593.931
## ORI_14605_14585 1812.57 1930.52  962.486 1198.620 396.333  502.352 1010.150
## ORI_14607_14586 1947.69 1742.76 1094.660 2066.250 507.276  619.891 1118.370
## ORI_14609_14587 2162.57 2124.12  677.347 1214.240 603.340  622.404 1105.750
## ORI_14617_14591 1567.10 1327.73  526.130 2198.120 293.852  686.325 1584.930
## ORI_14623_14594 1417.56 1272.30 1046.740 1362.440 436.756  630.294 1178.690
## ORI_14629_14597 1918.11 2375.04  873.722  984.066 410.698  478.305 1004.400
## ORI_14631_14598 2098.45 1950.76  703.561 1515.120 525.423  662.341 1199.910
## ORI_14633_14599 2165.09 1815.30 1151.260 1606.760 317.368  848.313 1088.630
## ORI_14635_14600 1535.78 1284.25  905.323  915.218 282.219  700.463 1255.720
## ORI_14639_14602 1605.14 1375.80 1001.650  921.404 208.196  606.681  920.545
##                 [,7266]  [,7267] [,7268] [,7269]  [,7270]  [,7271]   [,7272]
## ORI_10219_10218 186.975  355.098 230.152 249.641  353.194  691.358 3821.5000
## ORI_10735_10730 210.267  432.644 565.354 378.289  629.835 1170.640  513.2220
## ORI_14605_14585 312.104  444.302 380.425 300.561  658.394  934.188 3648.2000
## ORI_14607_14586 197.074  793.377 496.818 227.926  588.530  729.718 1242.4700
## ORI_14609_14587 166.033  438.246 519.487 265.605  788.840 1126.370 1821.1600
## ORI_14617_14591 182.451  306.403 466.635 297.826  452.418  891.985 2127.5900
## ORI_14623_14594 412.130  449.074 272.451 330.116  433.256  703.683 1872.1900
## ORI_14629_14597 311.574  474.220 527.402 284.162  556.498  723.123  690.8330
## ORI_14631_14598 250.362  493.561 423.737 315.372  948.502 1138.260 1634.1700
## ORI_14633_14599 279.359  380.811 300.707 337.295  581.895 1153.670  568.1550
## ORI_14635_14600 337.816  354.215 348.561 644.595  435.823  989.361 1979.4600
## ORI_14639_14602 257.578  408.910 339.857 531.418  391.739 1037.850  893.7720
##                   [,7273]  [,7274] [,7275]  [,7276]  [,7277] [,7278]  [,7279]
## ORI_10219_10218  118.1160 165.5050 191.281 168.1660  637.348 451.858 206.2630
## ORI_10735_10730  226.9740 286.1300 411.290 215.2900  846.228 282.566 138.1280
## ORI_14605_14585  187.9280 244.7690 267.596 157.7690  717.607 485.828 313.2190
## ORI_14607_14586  218.6380 254.7660 367.519  85.4382  817.208 365.068 124.8850
## ORI_14609_14587  113.7260 314.2350 442.741 133.4880  977.275 315.601 112.3880
## ORI_14617_14591  841.5200 228.8490 342.433 117.8740  718.389 228.954 338.4800
## ORI_14623_14594  234.3310 220.6670 310.020 137.8460  388.034 292.647 248.7550
## ORI_14629_14597  204.1750 238.7620 349.715 126.2030  798.047 207.306 197.0630
## ORI_14631_14598  138.4000 257.9500 449.247 121.0130  830.781 249.135  98.0408
## ORI_14633_14599  356.8580 404.5000 455.995 201.2270  694.460 323.112 201.5580
## ORI_14635_14600  413.4190 301.8370 463.336 169.5360  372.185 401.582 163.3080
## ORI_14639_14602  786.2130 291.3510 317.973  82.3922  489.088 271.607 140.2960
##                  [,7280] [,7281]  [,7282]  [,7283]  [,7284]   [,7285]   [,7286]
## ORI_10219_10218  436.249 272.056  24.6827 331.0030  953.053  287.4380  138.9680
```

```
## ORI_10735_10730  925.580 544.824 184.9780 179.2570  881.199  683.7600  614.6160
## ORI_14605_14585  738.253 337.745  24.6827 212.5960  554.751  359.1950  234.2070
## ORI_14607_14586  907.898 406.820  24.6827 261.5090 1879.010  730.4230  455.6200
## ORI_14609_14587  821.175 360.591  24.6827 240.2480 1136.720  501.5990  577.4550
## ORI_14617_14591  644.942 226.648  24.6827 267.4210  335.072  131.5430  127.0100
## ORI_14623_14594  425.585 272.270  24.6827 214.4050  487.376  254.2770  283.2740
## ORI_14629_14597  480.599 242.751  24.6827 135.7500  761.010  265.9500  423.7660
## ORI_14631_14598 1058.640 426.337  41.7114 235.0120 2042.770  466.4410  526.4670
## ORI_14633_14599  978.077 419.460  24.6827 156.1000  679.202  310.3170  316.3720
## ORI_14635_14600  687.740 327.165  24.6827 160.5200  619.947  268.9770  353.5140
## ORI_14639_14602  799.791 375.475  24.6827 148.6530  548.311  182.5690  500.3460
##                  [,7287]  [,7288]   [,7289]  [,7290]  [,7291]  [,7292] [,7293]
## ORI_10219_10218 3775.160  280.925   41.3574  377.859 156.2680 122.0920 210.175
## ORI_10735_10730 2548.040  259.239 2682.1100  738.502 191.5200 495.3470 204.681
## ORI_14605_14585 2704.480  283.119  608.7240  755.096 187.7870 399.6020 213.642
## ORI_14607_14586 2158.860  206.933 2717.4200 1774.930 383.7260 486.1370 247.035
## ORI_14609_14587 2608.250  256.143 1747.6200  997.613 281.1920 712.6380 276.191
## ORI_14617_14591 3171.700  137.550  203.5440  349.394 299.8550 216.3400 206.826
## ORI_14623_14594 2897.680  216.882  143.5210  309.141 195.3580 322.4840 306.127
## ORI_14629_14597 3615.890  148.649  695.3780  379.485 144.2240 712.7650 321.000
## ORI_14631_14598 2881.110  184.530 2012.9000  777.921 179.7410 631.7310 318.000
## ORI_14633_14599 2364.180  143.176  323.1890  511.112 198.7870 229.6130 262.297
## ORI_14635_14600 2825.670  178.677  378.7230  327.052 136.8890 277.2430 276.175
## ORI_14639_14602 4289.490  142.534  391.8500  264.173 149.7600 342.0020 331.921
##                  [,7294]  [,7295] [,7296]  [,7297]  [,7298] [,7299]  [,7300]
## ORI_10219_10218 209.7510  247.170 245.189  468.793 243.9380 230.323  32.9471
## ORI_10735_10730 188.6360  442.264 238.946  569.916 279.9340 282.084 109.7520
## ORI_14605_14585 310.8350  192.705 242.533  609.825 214.7300 204.858  59.6891
## ORI_14607_14586 140.8980 1273.900 337.776  524.202 101.4290 317.445 626.3870
## ORI_14609_14587 169.4760  386.723 240.081  507.885 234.4330 383.532 223.1530
## ORI_14617_14591 161.1930  117.204 156.024  605.052 166.9770 316.094  24.6827
## ORI_14623_14594 303.6210  235.368 245.490  619.928 178.7850 210.878  41.9532
## ORI_14629_14597 282.7250  126.411 238.801  665.114 153.6540 186.538  55.2734
## ORI_14631_14598 166.7900  494.886 229.479  625.034 209.2450 373.124 276.2860
## ORI_14633_14599 302.1390  348.710 265.941  739.791 259.2860 338.962  49.3596
## ORI_14635_14600 261.4110   94.208 269.570  716.336 234.0570 388.783  49.5448
## ORI_14639_14602 256.8860  220.895 261.334  789.901 182.3800 332.790  37.1847
##                   [,7301]  [,7302] [,7303]  [,7304] [,7305]  [,7306]  [,7307]
## ORI_10219_10218   24.6827  491.572 418.526  228.306 301.065 1414.240  214.672
## ORI_10735_10730  176.0930  687.231 413.443  360.337 328.415  979.994  295.073
## ORI_14605_14585   95.2736 1053.710 330.496  330.394 393.293 1647.870  463.209
## ORI_14607_14586  555.8880 1751.050 416.221  174.003 377.818  792.848  386.094
## ORI_14609_14587  466.2820  886.249 342.978  918.326 604.743 1473.270  494.463
## ORI_14617_14591   24.6827  311.572 225.552  315.165 270.313 1181.320  400.171
## ORI_14623_14594   24.6827  378.723 328.013  266.501 233.549 1184.270  542.735
## ORI_14629_14597   24.6827  618.202 245.040  436.466 218.614 1679.450  419.978
## ORI_14631_14598  726.5080 1103.440 300.887  642.890 372.199 2368.380  330.668
## ORI_14633_14599   24.6827  404.869 337.759  474.708 408.524 1855.860  542.883
## ORI_14635_14600   24.6827  303.937 360.706  311.715 286.216 1203.980  747.127
## ORI_14639_14602   91.0021  185.170 214.769  235.077 119.588 1068.350  262.236
##                  [,7308]  [,7309] [,7310] [,7311] [,7312] [,7313]  [,7314]
## ORI_10219_10218 166.3550  829.702 451.990 398.583 206.220 622.441 1447.520
## ORI_10735_10730 146.0690  874.668 557.659 571.042 254.543 645.383  990.082
## ORI_14605_14585 193.2080  826.678 365.986 423.048 245.249 577.837  649.292
```

```
## ORI_14607_14586 124.4810  729.075 255.345 350.558 205.582 388.524  706.414
## ORI_14609_14587 179.3960  961.029 576.900 612.577 317.882 537.880  424.735
## ORI_14617_14591  94.7379  688.971 363.660 440.737 244.949 574.193 1406.820
## ORI_14623_14594 137.9020  728.638 354.536 479.777 220.445 646.126  817.171
## ORI_14629_14597 228.1280  954.886 295.369 556.224 303.506 513.333  278.431
## ORI_14631_14598 273.1190 1002.570 413.321 487.154 297.095 381.697 1342.400
## ORI_14633_14599 164.7210  758.144 499.718 650.209 277.004 717.196  755.210
## ORI_14635_14600  66.3924  900.233 586.182 500.635 193.904 540.384  812.011
## ORI_14639_14602  98.7607 1109.670 620.189 610.022 348.820 486.368  938.668
##                  [,7315]  [,7316] [,7317]  [,7318]  [,7319]  [,7320]  [,7321]
## ORI_10219_10218  656.821  653.316 192.327  829.984  336.561 1099.780 130.6060
## ORI_10735_10730  880.558 1107.110 269.986  533.183  586.963  538.069 181.1720
## ORI_14605_14585  507.442  764.347 251.129  949.152  423.970  756.954 126.2340
## ORI_14607_14586  481.251  632.128 236.523  603.725  869.858  702.097 127.1040
## ORI_14609_14587  668.633  903.043 274.402  766.257  445.780  662.100 111.3410
## ORI_14617_14591  530.266  600.747 239.071  665.016  335.966 1069.740  84.0214
## ORI_14623_14594  295.919  561.593 346.257  658.951  360.558  676.553  89.8341
## ORI_14629_14597  395.654  493.265 219.475  365.251  860.054 1527.180 128.7390
## ORI_14631_14598  503.338  915.011 183.744  458.171  444.963  746.011 136.4880
## ORI_14633_14599  722.192  929.332 413.009  622.663  471.296  741.034 134.8590
## ORI_14635_14600  366.725  605.528 394.407  580.410  574.738  729.539 122.2200
## ORI_14639_14602  330.011  969.716 294.324  227.764  580.327  817.279  95.9519
##                  [,7322]  [,7323] [,7324] [,7325] [,7326] [,7327] [,7328]
## ORI_10219_10218  263.456  199.527 197.783 383.737 381.226 259.607 404.950
## ORI_10735_10730  693.808  916.039 427.308 392.902 848.804 240.640 412.314
## ORI_14605_14585  202.641  344.156 448.272 376.678 444.825 229.159 405.260
## ORI_14607_14586  363.110  162.504 319.050 432.886 391.367 231.583 612.799
## ORI_14609_14587  901.182  312.631 341.785 476.041 554.657 188.314 340.413
## ORI_14617_14591  147.542  345.322 294.772 358.553 554.137 183.801 517.611
## ORI_14623_14594  238.153  282.531 450.716 374.065 541.385 198.547 480.409
## ORI_14629_14597  298.213  640.209 363.708 375.898 520.944 240.616 414.237
## ORI_14631_14598  838.413  466.738 448.675 462.972 662.114 243.032 425.874
## ORI_14633_14599  126.417  308.548 381.290 507.780 650.424 264.527 475.600
## ORI_14635_14600  210.656  388.831 423.349 431.951 698.721 162.893 434.138
## ORI_14639_14602  319.835  682.614 610.294 458.314 763.059 252.574 452.382
##                 [,7329]  [,7330]  [,7331] [,7332]   [,7333]   [,7334]  [,7335]
## ORI_10219_10218 239.921 534.7990 1023.400 454.156  471.9930  235.9010 274.5390
## ORI_10735_10730 459.771 171.4850 1725.890 530.734 4837.9800  491.5250 673.9850
## ORI_14605_14585 265.814 358.8880 1604.750 345.443 1388.0200  579.8730 226.2220
## ORI_14607_14586 247.783 319.3430 1769.910 395.549 5909.9600  627.1960 570.2940
## ORI_14609_14587 287.731 433.9810 1709.820 512.750 2864.5200  505.6710 395.2700
## ORI_14617_14591 267.074 351.9540 1321.720 321.538  184.8940   71.9822 207.7860
## ORI_14623_14594 268.183 400.2840 1441.070 337.670  288.3000  127.6610 220.8960
## ORI_14629_14597 285.369 428.9390 1179.360 357.519 3627.8500  281.0610  62.4881
## ORI_14631_14598 299.333 294.7160 2174.160 321.996 4836.4400  482.1970 417.5070
## ORI_14633_14599 341.535 408.3210 2366.460 389.679  209.8570  359.2870 626.1240
## ORI_14635_14600 304.943 341.2580 1992.170 332.973  160.0420  213.3510 176.6690
## ORI_14639_14602 434.166 283.8900 1259.160 453.172 3057.1700  478.7730 183.7130
##                  [,7336]  [,7337]  [,7338]  [,7339] [,7340]  [,7341]  [,7342]
## ORI_10219_10218  885.571 210.1700  841.281  581.953 479.646 310.0160  779.798
## ORI_10735_10730 1313.200 430.3240  989.922 1034.030 522.823 307.4150 1524.290
## ORI_14605_14585  851.673 280.0140  869.826  756.893 443.055 246.2070  949.285
## ORI_14607_14586  526.314 312.7370 1396.830  935.189 522.867 147.0980  973.543
## ORI_14609_14587 1033.960 294.1190 1005.990 1655.920 492.238 310.5410 2053.690
```

```
## ORI_14617_14591  604.923  98.4197 1276.230  370.837 434.370 316.4060  715.075
## ORI_14623_14594  811.216 155.1860  851.730  363.618 412.847 229.8670  952.944
## ORI_14629_14597  724.659 219.2550 1020.030  485.809 629.791 255.8540  810.779
## ORI_14631_14598 1670.390 219.3580  856.667 1360.440 472.513 192.5150 1238.700
## ORI_14633_14599  862.447 210.0870 1200.910  453.690 517.818 244.3220  908.317
## ORI_14635_14600  762.549 201.3040 1499.430  389.730 472.828 277.3960  871.909
## ORI_14639_14602  840.647 261.9780 1025.040  538.174 511.911 321.1250  554.958
##                  [,7343]  [,7344]  [,7345] [,7346]  [,7347]  [,7348]  [,7349]
## ORI_10219_10218 109.0860 1623.110  670.280 714.512 127.8650  787.301  77.0728
## ORI_10735_10730 138.1780 1163.780  663.125 389.018 217.8260 1380.170  73.5744
## ORI_14605_14585  97.3515 1845.210 1090.300 543.473 127.5700 1254.260  70.0230
## ORI_14607_14586 104.2720 1173.860  492.594 414.411 123.4720 1392.810  70.7893
## ORI_14609_14587 159.9630 1573.480  987.937 476.442 149.3710 1662.160  55.1051
## ORI_14617_14591  97.6011 1370.560  576.192 320.215  49.8678 1393.940  51.6162
## ORI_14623_14594 169.7940 1028.390  491.467 352.661 124.9540 1036.160  65.6262
## ORI_14629_14597 126.5960 1527.520  449.886 255.869 198.3800  839.968  80.7556
## ORI_14631_14598 158.4010 1473.680  768.105 258.903 189.7390 1569.820  64.2432
## ORI_14633_14599 247.4860 1863.300  764.936 395.403 158.3970 1543.940 203.6030
## ORI_14635_14600 229.1870 1285.230  498.715 365.208 140.6380 1364.590 105.0640
## ORI_14639_14602 230.5640 1127.960  105.048 255.268 622.6740 1041.370  56.9020
##                 [,7350]  [,7351]  [,7352] [,7353]  [,7354] [,7355]  [,7356]
## ORI_10219_10218 217.051  811.441  857.695 225.831  555.003 335.229  908.842
## ORI_10735_10730 279.050  546.675  783.751 301.971  970.316 170.569  818.439
## ORI_14605_14585 234.153  749.809  635.718 221.938  748.591 206.896  964.060
## ORI_14607_14586 386.503  511.069  651.748 266.056 1412.990 259.967  873.202
## ORI_14609_14587 230.358  743.637  852.899 246.856  738.050 220.772 1285.640
## ORI_14617_14591 343.568  654.358  776.879 231.801  316.703 397.907  998.568
## ORI_14623_14594 269.460  578.074  781.687 284.873  337.383 259.251  665.007
## ORI_14629_14597 446.580  664.271  952.673 258.426  676.727 287.769  866.948
## ORI_14631_14598 287.490  461.682  693.129 243.942  675.802 190.789  986.424
## ORI_14633_14599 377.818  530.264  678.807 324.280  542.126 201.205  912.377
## ORI_14635_14600 314.154  589.486  758.697 343.209  310.316 272.006  760.853
## ORI_14639_14602 759.342  684.309  544.157 407.254  353.388 141.146  740.002
##                  [,7357]  [,7358]  [,7359]  [,7360]  [,7361]  [,7362]  [,7363]
## ORI_10219_10218 115.2200  215.983 246.4900 224.7200 202.7350  280.318  855.621
## ORI_10735_10730 251.9180  419.328 197.1950 111.0510 179.8510 1229.160  522.654
## ORI_14605_14585 146.8420  354.627 203.3290 214.8630 449.8420  566.850  986.392
## ORI_14607_14586 421.5490 1158.210 402.2540 292.5130 355.2510  998.322  603.788
## ORI_14609_14587 277.3160  750.760 206.7480 220.1380 305.8910  512.705 1295.470
## ORI_14617_14591  78.7450  113.533 134.3640  93.3694 103.0210  211.462  982.794
## ORI_14623_14594  90.1530  204.746 205.3280  93.4074  93.4207  342.189  666.272
## ORI_14629_14597  72.8827  179.178 188.0630 113.0260  66.9696  806.720  908.864
## ORI_14631_14598 196.8630  515.319 193.0730 193.6740 272.1900 1159.220  804.512
## ORI_14633_14599 156.7150  343.951 214.6400 157.6990 181.2360  665.625  457.906
## ORI_14635_14600 107.4790  327.061 195.2490 124.2470 121.0480  393.284  563.712
## ORI_14639_14602  78.0097  121.931 145.1910  57.8125  41.5453 2679.570  730.153
##                   [,7364]  [,7365]  [,7366]  [,7367] [,7368]  [,7369]  [,7370]
## ORI_10219_10218 1842.6100  63.0119 1394.830 3377.600 260.144  192.996  371.770
## ORI_10735_10730  181.9300 101.2480 1749.140 1685.590 207.415  647.923  737.530
## ORI_14605_14585 1875.9900 119.6990  550.228 1290.760 290.727  527.087  642.020
## ORI_14607_14586  348.5710  38.4978 1026.910 2092.450 289.421  353.212 1384.350
## ORI_14609_14587  540.1270 272.8160  983.096 1461.370 201.230 1236.090  585.486
## ORI_14617_14591  583.6920 138.0180 1487.230 3001.830 235.175  385.104  370.372
## ORI_14623_14594  595.2780 148.5760  828.327 2236.150 283.322  562.507  542.006
```

```
## ORI_14629_14597  501.7870 130.8850  452.690 2824.440 297.870  759.461  519.380
## ORI_14631_14598  494.6770  64.1730  997.140 1883.140 241.102  679.505  745.356
## ORI_14633_14599  490.7020 212.6810  909.359 2568.570 269.233  770.238  562.562
## ORI_14635_14600  499.7070 207.5020  568.049 1750.460 259.262  726.672  358.519
## ORI_14639_14602  989.2490 348.1960  549.008 2218.130 262.159  286.874  526.772
##                 [,7371] [,7372]  [,7373]  [,7374]  [,7375]  [,7376] [,7377]
## ORI_10219_10218 1945.91 592.022 238.1660  350.133 317.8430 351.3130 390.604
## ORI_10735_10730 2058.26 152.969 238.2050  396.892 224.3440 174.1120 788.363
## ORI_14605_14585 2735.67 191.215 257.5130 1354.150 258.9120 173.7140 513.993
## ORI_14607_14586 1983.45 244.006 307.8740  634.767 341.1910 231.2480 680.855
## ORI_14609_14587 2456.77 218.365 452.9260  611.637 392.1100 365.5360 960.552
## ORI_14617_14591 2427.22 263.716 158.4480  677.082 509.4710 211.0710 432.681
## ORI_14623_14594 2443.34 374.618 162.4280  381.770 847.7310 295.4440 267.233
## ORI_14629_14597 3203.36 535.028  97.8496 4513.650 628.8770 461.3030 484.005
## ORI_14631_14598 2946.67 193.730 233.9660  650.394 496.4530 423.7670 413.529
## ORI_14633_14599 3366.32 147.474 286.0310  630.833 704.5210 214.5090 470.609
## ORI_14635_14600 2478.08 142.715 225.9200  342.170 784.7250 511.3500 385.899
## ORI_14639_14602 2016.68 132.006 129.0960  270.613 597.4020 157.4240 452.787
##                  [,7378] [,7379]  [,7380]  [,7381]  [,7382]  [,7383]  [,7384]
## ORI_10219_10218  633.616 293.139 392.4470  992.284  395.924 261.0310 166.8550
## ORI_10735_10730  927.086 404.694 210.4290  571.461  583.045  24.6827 407.3910
## ORI_14605_14585  746.967 415.881 277.9410  549.357  582.106  24.6827 187.6060
## ORI_14607_14586 1183.050 474.109  86.2546  364.288  643.559  64.0606 661.6100
## ORI_14609_14587 1075.600 381.891 218.7220  644.834  814.477  47.3512 337.4130
## ORI_14617_14591  864.858 428.440 293.0950  930.058  642.879 300.3100 129.1130
## ORI_14623_14594  666.503 470.655 232.8520  578.084  506.075 149.8520 167.6370
## ORI_14629_14597  670.024 536.946  53.9404  503.256  230.684  24.6827 322.9870
## ORI_14631_14598 1077.590 428.580 109.4950  592.032  636.928  44.1406 317.6880
## ORI_14633_14599 1155.780 484.090 201.3090  305.252  765.512 113.9430 140.9760
## ORI_14635_14600  923.622 471.581 323.4240  600.752  742.387  65.6208 150.5170
## ORI_14639_14602  783.640 587.542 208.1930  247.373  582.648  24.6827 158.6390
##                 [,7385]  [,7386] [,7387]  [,7388] [,7389] [,7390]  [,7391]
## ORI_10219_10218 325.620 228.8480 546.660  452.859 516.495 374.775 124.8220
## ORI_10735_10730 481.585 179.5500 265.735  663.107 320.396 471.723 363.0470
## ORI_14605_14585 239.982 274.3190 354.614  745.619 615.016 436.389  54.1769
## ORI_14607_14586 282.540 223.7260 321.169  809.884 511.259 457.928 157.2850
## ORI_14609_14587 401.786 224.1070 299.807  728.571 567.389 260.258 218.7190
## ORI_14617_14591 310.941 237.2340 473.696  725.173 470.919 168.486  57.0015
## ORI_14623_14594 255.242 191.1120 460.463  606.779 385.580 283.422  93.7536
## ORI_14629_14597 427.652 138.1430 297.057  609.278 610.586 398.010  92.3593
## ORI_14631_14598 565.578 178.3680 326.080  662.552 645.046 358.007 172.2240
## ORI_14633_14599 209.561 186.5380 337.642  605.976 357.295 385.529  75.2630
## ORI_14635_14600 157.618 204.5370 427.812  564.666 249.369 365.591  62.2626
## ORI_14639_14602 466.562 143.2260 298.237  851.166 429.672 432.045 157.9780
##                  [,7392]  [,7393]  [,7394]  [,7395] [,7396]  [,7397] [,7398]
## ORI_10219_10218  345.850 1426.690 145.7960 332.7940 516.731 3872.050 5966.48
## ORI_10735_10730 1395.370 2461.590 237.4310 250.9970 387.535 6598.960 6588.91
## ORI_14605_14585  447.940 1986.600 204.6160 306.0910 404.663 3943.150 6425.23
## ORI_14607_14586  629.014 1921.100 111.8750 226.8710 310.877 5027.060 7199.55
## ORI_14609_14587  291.823 2202.900 225.2800 297.1730 311.673 4065.480 6833.15
## ORI_14617_14591  339.179 1586.140 104.2020 284.7160 265.273 3175.450 4726.75
## ORI_14623_14594  327.767 1146.970 169.2850 473.3580 482.580 3214.510 4837.73
## ORI_14629_14597 1043.950 2351.500 188.7360 490.0090 467.293 4301.240 6651.09
## ORI_14631_14598  614.904 1678.800 183.4100 426.3530 374.458 4507.890 6050.31
```

```
## ORI_14633_14599  454.589 1860.150 211.5340 433.8810 453.308 2988.510 6091.29
## ORI_14635_14600  471.027 1315.130 179.5620 329.1600 529.685 2563.520 4307.24
## ORI_14639_14602  528.789 1908.000 391.7620 400.1340 441.935 4000.890 4617.34
##                  [,7399]  [,7400]  [,7401]   [,7402]   [,7403]  [,7404]
## ORI_10219_10218 267.6070 1019.040  799.301  152.3000  240.6830  471.341
## ORI_10735_10730 264.2200 1992.380  645.037   58.1847 1935.6900 1276.150
## ORI_14605_14585 316.0190 1414.500  706.252  713.6940 1057.4800  449.525
## ORI_14607_14586 334.1380  846.237  747.090  325.6890 1770.9600  575.851
## ORI_14609_14587 363.5760  838.154  955.114  199.4060 1972.1100  431.914
## ORI_14617_14591 163.3000  762.734  738.267  198.7670  892.9560  507.021
## ORI_14623_14594 171.7820 1368.000  618.246  210.1690  490.7970  455.947
## ORI_14629_14597 291.1390  954.930 1064.860   25.9420  290.2300  740.851
## ORI_14631_14598 323.7430  592.360 1432.220  102.9280 1550.7300  766.982
## ORI_14633_14599 252.2720 1785.100  962.013   45.8304 1062.7900  619.321
## ORI_14635_14600 198.7120 1342.240  803.390   58.8134  302.8850  609.894
## ORI_14639_14602 201.5660 1787.910  776.671   30.2318  594.5140  389.189
##                  [,7405]  [,7406]  [,7407]  [,7408]  [,7409]   [,7410]  [,7411]
## ORI_10219_10218  188.396  348.058 167.3610 100.1770 106.6000  112.6630  375.352
## ORI_10735_10730  770.073  461.472 253.0490 203.1230 412.0030  170.1730  756.344
## ORI_14605_14585  520.659  324.430 182.6960 136.3630 214.1960  126.0760  330.995
## ORI_14607_14586 1028.390 2245.570 392.5710 670.2850 429.9890  424.5760  503.902
## ORI_14609_14587  751.948  863.622 285.1400 356.7570 403.7790  311.1230  449.100
## ORI_14617_14591  244.995  151.060  81.4556  48.7371  88.1083   70.2693  169.018
## ORI_14623_14594  159.904  157.463  53.4267  87.1569 146.1630  106.7500  299.491
## ORI_14629_14597  585.720  265.761 235.7020 103.4010 502.5010  110.3680  935.833
## ORI_14631_14598  708.191  659.523 298.8400 365.4960 432.0630  118.6160  862.718
## ORI_14633_14599  278.585  184.050 190.2330 100.6110 134.9400  117.2680  285.169
## ORI_14635_14600  198.525  151.157 125.9960  72.0548 266.4020  106.7630  307.897
## ORI_14639_14602  112.601  155.062 132.4600 105.5180 341.5400  151.6360  439.571
##                 [,7412]  [,7413]  [,7414]  [,7415] [,7416] [,7417]   [,7418]
## ORI_10219_10218 270.828  246.358 174.0490  915.156 355.117 404.588  179.6650
## ORI_10735_10730 239.370  795.969 231.0270 1066.750 298.491 235.979  186.1490
## ORI_14605_14585 374.738  523.015 265.1420  579.563 361.653 456.068  204.1900
## ORI_14607_14586 239.957 1030.610 915.6200  607.485 339.784 569.797  501.6670
## ORI_14609_14587 311.391  678.077 776.5490  806.472 358.289 310.540  215.4650
## ORI_14617_14591 219.233  196.062  81.4575  985.136 186.259 332.082  152.9100
## ORI_14623_14594 390.346  286.180  90.3642  748.554 340.431 538.011  120.8360
## ORI_14629_14597 266.531  979.307 114.6010 1204.960 286.669 496.945  116.9390
## ORI_14631_14598 372.014  876.373 451.9000 1202.060 311.574 463.801  183.9790
## ORI_14633_14599 313.726  388.333 198.4440 1594.550 327.243 409.631  203.3930
## ORI_14635_14600 291.267  442.480 262.7670  935.602 337.195 326.151  124.0090
## ORI_14639_14602 286.885  387.441  36.0828 1912.060 403.790 261.560   96.1959
##                  [,7419]  [,7420]  [,7421]  [,7422]  [,7423]  [,7424]  [,7425]
## ORI_10219_10218 152.6120  313.339  915.582  702.267  380.555  236.177  774.969
## ORI_10735_10730 247.2190  335.004  904.238 1284.480  654.376  592.779  560.430
## ORI_14605_14585 273.8300  521.172  952.815  731.308  350.896  598.236  615.172
## ORI_14607_14586 406.4610 1032.010 1063.470  472.565  716.096  695.348  308.015
## ORI_14609_14587 263.4810  523.331 1152.390  820.016  557.746  353.698  695.504
## ORI_14617_14591 191.2010  283.283  851.567  737.424  427.647  473.163  635.190
## ORI_14623_14594 182.1870  269.422  566.244  690.096  225.840  575.360  520.203
## ORI_14629_14597 174.6820  246.344  634.509  725.018  326.344  520.368  651.339
## ORI_14631_14598 240.5940  730.930  815.307  718.586  601.875  714.459  611.783
## ORI_14633_14599 156.8840  344.272 1023.570  848.527  418.539  696.734  406.976
## ORI_14635_14600 158.0680  308.988  867.568  819.180  359.292  873.670  756.952
```

```
## ORI_14639_14602  94.7551  204.467  589.157  896.951  382.862  416.447  629.455
##                   [,7426]  [,7427]  [,7428] [,7429] [,7430]  [,7431]  [,7432]
## ORI_10219_10218  808.815 280.3100  70.9842 511.314 2192.40 1423.130  750.401
## ORI_10735_10730  792.138 169.1960  24.6827 286.196 1621.74 1277.450  890.552
## ORI_14605_14585  769.633 346.5360  24.6827 574.811 2401.07 1246.940  725.819
## ORI_14607_14586 1108.300  95.0531  63.5149 374.666 1595.16 1142.330  632.745
## ORI_14609_14587  782.451 164.3540  24.6827 341.422 3205.29 2168.730  940.062
## ORI_14617_14591  854.476 254.3130 135.5780 828.425 1798.07 1917.190 1006.480
## ORI_14623_14594  655.063 414.0410 242.5250 436.139 1916.27 1907.660  813.486
## ORI_14629_14597  878.302 218.1520  24.6827 698.931 2565.87 1537.210  803.136
## ORI_14631_14598  667.376 193.7870  24.6827 280.933 2845.38 1746.080  982.814
## ORI_14633_14599  665.117 286.9950  24.6827 598.368 1621.27 2184.240  698.587
## ORI_14635_14600  746.867 367.8120  24.6827 513.582 1497.91 1767.530  796.291
## ORI_14639_14602  661.647 266.5340  24.6827 544.729 1295.15 1154.770  750.591
##                  [,7433] [,7434]  [,7435]   [,7436]  [,7437]   [,7438]  [,7439]
## ORI_10219_10218 495.102 293.835  613.413  119.6070  748.469   30.5252  416.237
## ORI_10735_10730 399.776 210.841  637.738  153.0900 1245.050  105.0280  480.123
## ORI_14605_14585 531.773 267.143  563.112  235.8730 1177.080  112.3780  488.293
## ORI_14607_14586 420.137 167.416  632.925   53.3346 1349.510  252.1590  445.693
## ORI_14609_14587 337.334 197.060  457.571  106.9310 1382.490  137.8080 1077.500
## ORI_14617_14591 490.229 237.114  341.940  388.5950  599.175   37.9780  340.434
## ORI_14623_14594 502.905 242.373  616.082  317.1850  890.941   58.1748  225.421
## ORI_14629_14597 499.626 206.646  519.147  123.2990  498.348  116.9160  686.917
## ORI_14631_14598 454.980 146.223  527.578   97.7144 1293.130  141.2110  624.453
## ORI_14633_14599 529.564 253.199  549.790  635.4070  716.698   64.3378  192.054
## ORI_14635_14600 470.356 226.138  608.180  513.9600  704.342   36.5657  314.290
## ORI_14639_14602 478.434 184.506  452.936  389.5570  784.083   38.9162  534.552
##                  [,7440]  [,7441] [,7442] [,7443]  [,7444]  [,7445] [,7446]
## ORI_10219_10218 470.131 166.5940 338.168 378.433 205.5090 1786.800 605.062
## ORI_10735_10730 608.628 368.6730 306.121 479.991 210.3850 1417.860 358.561
## ORI_14605_14585 510.652 224.8510 167.018 322.937 229.9210 1231.060 395.496
## ORI_14607_14586 262.891 122.2850 233.325 465.447 247.3420 1342.830 382.050
## ORI_14609_14587 696.282 357.6400 190.247 401.114 168.6730 1625.470 415.845
## ORI_14617_14591 398.838 212.8790 377.519 319.101 228.0290 2223.410 467.756
## ORI_14623_14594 297.135 222.0920 214.103 245.477 208.6750 1288.940 352.569
## ORI_14629_14597 192.842 246.7580 212.594 280.651 295.9060 1530.920 340.227
## ORI_14631_14598 349.478 291.5160 198.451 434.006 206.8840 1640.690 422.968
## ORI_14633_14599 462.632 242.6240 299.558 424.808 244.4000 1855.460 471.223
## ORI_14635_14600 382.328 272.8410 211.369 249.827 234.6040 2124.610 497.642
## ORI_14639_14602 253.476  89.8523 250.019 207.823 201.2920 1714.190 307.423
##                  [,7447]  [,7448]  [,7449]   [,7450]  [,7451] [,7452]   [,7453]
## ORI_10219_10218 2234.88 1420.290  738.062   24.6827 1568.230 326.345   31.3863
## ORI_10735_10730 2457.25 1397.510  980.957  562.2600 1575.040 673.809  570.9970
## ORI_14605_14585 2628.27 1089.970  792.314  429.8260 1855.570 370.915  276.8030
## ORI_14607_14586 2953.59 1041.010  911.390   40.5139 1340.020 287.079   24.6827
## ORI_14609_14587 3559.36 1177.260  968.089  183.6150 1732.300 450.188  137.0790
## ORI_14617_14591 2623.51 1648.470  858.030   33.4292 1788.220 379.230   24.6827
## ORI_14623_14594 2474.06 1039.630  989.288  315.9500 1996.200 437.193  156.9850
## ORI_14629_14597 3079.29  671.851 1013.100  162.8010 1999.180 330.054  126.5000
## ORI_14631_14598 3028.71 1226.530  902.951  288.6670 1495.040 524.658  288.1320
## ORI_14633_14599 3083.51 1223.180  815.754  272.9480 1939.530 482.274  109.5330
## ORI_14635_14600 2512.78 1474.780 1029.930  438.9320 1857.640 671.274  248.8090
## ORI_14639_14602 1857.48 1283.000 1070.350 1087.5100 1721.000 855.290  561.5590
##                  [,7454] [,7455]  [,7456]   [,7457]  [,7458] [,7459] [,7460]
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```
## ORI_10219_10218 257.782 203.604  671.264  349.0580 129.9430 245.494 308.000
## ORI_10735_10730 469.970 271.190  739.019  199.6420 475.0880 238.420 390.061
## ORI_14605_14585 312.201 311.095  822.714  196.6470 180.0150 287.761 395.815
## ORI_14607_14586 416.705 364.075  756.257  222.8470 325.3870 225.893 355.811
## ORI_14609_14587 461.639 388.393  756.945  243.1550 435.4240 312.487 483.311
## ORI_14617_14591 282.517 167.930  575.023  288.9070 224.4010 173.098 367.358
## ORI_14623_14594 336.723 206.177  596.158  214.6240 195.5570 228.396 349.074
## ORI_14629_14597 403.272 323.812  672.355   76.7211 372.1770 299.770 573.487
## ORI_14631_14598 583.168 354.230  791.379  189.8670 406.8640 333.823 419.188
## ORI_14633_14599 317.446 256.848  667.432  167.3700 314.9940 298.453 315.475
## ORI_14635_14600 544.441 217.116  694.376  208.3570 235.2560 280.163 391.049
## ORI_14639_14602 503.150 244.339  694.741   93.9521 235.6140 249.064 346.131
##                  [,7461]  [,7462] [,7463]   [,7464]  [,7465]  [,7466]  [,7467]
## ORI_10219_10218  741.492 144.8470 324.750  300.6250  797.293 457.7050 1038.730
## ORI_10735_10730  606.383 415.5190 309.128  255.1240  423.616 302.5860  622.505
## ORI_14605_14585  701.585 230.6090 389.413  138.2250  823.941 194.0550 1053.000
## ORI_14607_14586  681.478 359.6500 556.898  817.2500 1001.490 229.6850 1163.310
## ORI_14609_14587  749.125 190.7520 451.518  129.4680  969.260 501.3950  765.347
## ORI_14617_14591  983.326 184.7290 231.577  303.5010  828.660 407.4530 1012.510
## ORI_14623_14594  775.105 290.2320 254.024  125.1900  644.351 102.2610 1435.480
## ORI_14629_14597  783.425 257.7300 225.838  399.4790 1095.940  79.0642 1048.290
## ORI_14631_14598  721.867 223.3550 472.987 1030.8000 1382.600 298.2130 2170.020
## ORI_14633_14599  582.084 398.8630 221.779  160.8140  890.503 145.4990  936.480
## ORI_14635_14600  572.261 256.9290 266.353  152.9900  574.149 212.3370  989.433
## ORI_14639_14602  501.258 274.0690 193.216  170.8310  266.334  36.8401  899.108
##                 [,7468] [,7469]  [,7470]   [,7471]  [,7472]   [,7473] [,7474]
## ORI_10219_10218 324.142 2981.63  438.280  111.1780 190.8080  148.0800 112.559
## ORI_10735_10730 401.053 3423.36  624.350  294.4380 169.6410  740.3680 240.653
## ORI_14605_14585 400.612 1765.43  530.940  152.4650 138.1670  175.5550 305.210
## ORI_14607_14586 726.746 2811.79 1788.660  760.8000 121.7890  756.1630 221.157
## ORI_14609_14587 500.506 2659.71 1006.020  691.6620  91.7903  362.6440 238.241
## ORI_14617_14591 376.129 2571.45  629.170  119.5700 191.6900  144.3840 192.898
## ORI_14623_14594 273.671 2914.45  443.995  114.7430 173.4120  176.5380 317.286
## ORI_14629_14597 371.359 4010.73  440.444  125.7860  61.9952  185.3620 145.183
## ORI_14631_14598 618.744 2955.74 1068.970  504.5210  88.8378  339.4920 248.395
## ORI_14633_14599 482.599 2069.88  363.023   65.6991 156.0290  297.9270 315.888
## ORI_14635_14600 489.369 3065.51  451.640   78.1812 153.6880  165.8570 394.450
## ORI_14639_14602 326.244 2354.97  473.144  205.8630  89.7477  689.9420 181.927
##                  [,7475] [,7476]  [,7477] [,7478] [,7479] [,7480]   [,7481]
## ORI_10219_10218 1041.590 233.371 175.4260 197.537 260.717 5872.72   81.9504
## ORI_10735_10730  706.279 273.008  91.2453 743.943 415.808 4701.10  320.3640
## ORI_14605_14585  824.435 279.342 234.1750 251.504 239.267 6714.24  277.9230
## ORI_14607_14586 1208.050 226.417 248.9390 241.893 388.859 7678.91   68.4215
## ORI_14609_14587 1542.960 203.919 225.1350 488.883 308.417 6449.58  136.3930
## ORI_14617_14591  689.013 188.404 156.9680 139.424 225.596 5451.36   67.8567
## ORI_14623_14594 1189.040 411.866 314.1130 240.868 138.142 6013.16  353.6380
## ORI_14629_14597 1273.890 314.981 172.5810 211.794 155.533 7195.43  186.5530
## ORI_14631_14598 1631.710 248.735 189.5650 703.302 260.452 6252.31  215.6840
## ORI_14633_14599  851.532 315.615 176.6010 472.293 205.036 6610.03  236.4690
## ORI_14635_14600  555.313 380.989 196.4130 241.446 150.478 5422.15  399.1820
## ORI_14639_14602  572.056 368.640 221.5660 195.527 121.385 5581.65  733.7950
##                 [,7482] [,7483]  [,7484] [,7485]  [,7486]  [,7487]  [,7488]
## ORI_10219_10218 253.982 1835.00 194.9040 263.587 251.5080  398.560 133.6850
## ORI_10735_10730 162.430 1961.83 138.5810 322.313 334.2660  661.476 218.8260
```

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## ORI_14605_14585 347.610 2257.88 140.6120 359.166 252.4000  578.906 227.8140
## ORI_14607_14586 293.340 2704.17 167.1150 473.879 396.3770  233.858 267.1390
## ORI_14609_14587 200.138 1941.53 379.4960 323.148 368.2450  384.516 341.0020
## ORI_14617_14591 257.500 1804.48  94.3764 291.661 409.4700  330.505 133.7710
## ORI_14623_14594 397.114 1651.50 273.0750 265.571 289.7750  434.076 140.0020
## ORI_14629_14597 256.795 3092.59 267.0170 235.002 262.7960  859.249 182.6740
## ORI_14631_14598 277.581 2845.15 287.2700 349.376 191.8990  520.794 268.8680
## ORI_14633_14599 388.475 1773.09 233.3440 206.114 211.3740  366.981 153.0080
## ORI_14635_14600 350.032 1525.02 222.9020 249.440 148.4830  438.116 159.4320
## ORI_14639_14602 255.415 1778.88 178.2680 212.103 240.7920 1223.280 273.9670
##                  [,7489] [,7490]  [,7491] [,7492]  [,7493] [,7494]  [,7495]
## ORI_10219_10218  758.296 133.620  937.395 391.283  557.427 293.448  464.582
## ORI_10735_10730 1504.440 373.781  822.273 526.310  626.886 246.762  401.388
## ORI_14605_14585 1193.660 206.460  756.681 234.648  650.745 294.470  400.507
## ORI_14607_14586 1534.020 614.919  617.832 555.963  620.193 228.834  548.094
## ORI_14609_14587 1872.010 252.208  744.349 391.501  562.495 205.048  349.556
## ORI_14617_14591  808.013 299.413 1027.130 312.052  552.608 192.847  241.141
## ORI_14623_14594  643.089 227.981  892.019 269.622  472.745 392.950  523.366
## ORI_14629_14597 1271.740 414.579  802.944 396.131  440.330 275.729  468.551
## ORI_14631_14598 1608.370 337.685  735.211 476.552  843.807 246.937  312.323
## ORI_14633_14599 1083.030 308.675  868.711 473.260  755.390 198.418  446.365
## ORI_14635_14600  813.669 243.798  851.724 265.160  749.467 287.197  440.049
## ORI_14639_14602 1181.950 233.470  932.900 218.432  595.064 285.567  527.690
##                   [,7496] [,7497] [,7498]  [,7499] [,7500]  [,7501]  [,7502]
## ORI_10219_10218  329.5280 477.742 189.580 180.9180 110.433  510.854  239.704
## ORI_10735_10730  445.2720 264.595 181.784  24.6827 410.739  771.095 1136.180
## ORI_14605_14585 1112.1300 445.971 176.840  24.6827 184.231  376.300  609.108
## ORI_14607_14586  721.5840 322.783 227.308  24.6827 194.124 1017.450  900.195
## ORI_14609_14587  709.1430 374.649 148.842  24.6827 228.917  799.915  848.217
## ORI_14617_14591  153.6200 167.246 150.537 157.3030 133.425  613.591  360.251
## ORI_14623_14594  154.3780 359.084 158.580  63.6846 158.884  470.705  508.829
## ORI_14629_14597  247.6530 279.459 160.935  24.6827 266.780  536.042 2212.670
## ORI_14631_14598  463.5980 370.547 156.296  24.6827 253.955  446.010 1097.000
## ORI_14633_14599  299.4990 475.348 225.277  24.6827 258.163  347.137  960.173
## ORI_14635_14600  224.5290 305.508 225.241  47.6191 285.707  321.238  605.516
## ORI_14639_14602  121.0940 274.605 334.703  24.6827 258.215  844.104 2358.060
##                  [,7503] [,7504]  [,7505]  [,7506] [,7507]  [,7508]  [,7509]
## ORI_10219_10218 109.0680 184.161 143.8820  570.884 256.132  681.220 291.7580
## ORI_10735_10730 138.5010 483.861 429.1610  882.894 334.411 1183.660 176.7460
## ORI_14605_14585 131.5250 408.769 234.8480 1434.500 325.590  731.116 189.2970
## ORI_14607_14586 178.8220 463.883 287.0520 1431.000 261.985  736.677 157.4750
## ORI_14609_14587 231.2640 542.574 234.2460 1927.020 388.066  832.983 168.6190
## ORI_14617_14591 125.7750 193.018 228.2310  476.556 231.623  517.345 272.3870
## ORI_14623_14594 128.2850 185.363 215.8310  543.252 263.324  585.871 240.3170
## ORI_14629_14597 197.1770 230.435 224.5670  623.652 275.851  512.835 170.3250
## ORI_14631_14598 248.3150 578.139 334.5200 1010.860 318.539  642.012 189.5950
## ORI_14633_14599 159.7570 304.885 281.7930  505.297 344.977  699.442 163.6960
## ORI_14635_14600 148.4580 244.329 238.1200  660.299 391.891  792.062 163.3320
## ORI_14639_14602 138.2270 302.447 257.3680  241.754 358.796  584.060 190.6100
##                 [,7510]  [,7511]  [,7512]  [,7513]  [,7514]  [,7515]  [,7516]
## ORI_10219_10218 325.699 317.6860 1239.670 126.9280  796.404 110.3790  956.568
## ORI_10735_10730 494.562 319.3290  892.270 152.7210 1093.560 415.3110  701.026
## ORI_14605_14585 324.404 231.5380  651.551 246.8140  747.716 278.2710 1265.600
## ORI_14607_14586 398.702 111.6620  676.278 556.7750  882.561 149.1540 1269.850
```

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## ORI_14609_14587 477.988 293.6770  784.772 558.7120  923.998 318.7280  940.576
## ORI_14617_14591 585.398 290.2540 1653.230  46.5406 1483.090  99.2819 1446.120
## ORI_14623_14594 587.344 245.5610 1094.880  88.4472  659.480 213.8540 1227.660
## ORI_14629_14597 464.304  68.7607  835.008 341.4120  426.044 249.6470 1171.520
## ORI_14631_14598 474.888 139.2050  843.726 302.4070  832.052 382.8250 1141.800
## ORI_14633_14599 367.701 175.8330  954.461 150.3410  644.298 124.1800  771.336
## ORI_14635_14600 594.365 206.9380 1100.220  78.3903  554.745 213.0480 1132.190
## ORI_14639_14602 246.473 255.9270 1042.360  74.1354 1037.340 194.9690  970.023
##                  [,7517]  [,7518] [,7519]  [,7520] [,7521]  [,7522]  [,7523]
## ORI_10219_10218  948.264  400.385 141.633 428.3480 533.631 108.7670  854.739
## ORI_10735_10730 1743.880 1619.980 668.220 192.9380 769.182 226.0320  979.884
## ORI_14605_14585 1416.650  587.186 245.795 493.7120 581.149 155.7580  909.978
## ORI_14607_14586  708.328  604.433 428.331 491.7690 769.500  98.7746 1075.480
## ORI_14609_14587 1858.190  670.269 511.004 550.9620 780.089 124.8150 1166.310
## ORI_14617_14591 2036.920 1023.130 160.272 397.2040 551.477 103.5140  983.917
## ORI_14623_14594 1413.420 1060.930 298.685 605.1790 448.417 184.1460  579.122
## ORI_14629_14597 1596.460 2182.470 363.396 764.6960 563.188 174.4520  700.761
## ORI_14631_14598 1073.140  637.011 473.145 498.5930 723.146 215.9690  811.858
## ORI_14633_14599 2286.070 1347.910 177.274 461.6720 729.605 163.3170  596.117
## ORI_14635_14600 1568.010 1171.240 300.756 497.4760 618.560 244.5250  869.094
## ORI_14639_14602 2322.040 1899.180 402.117 386.1890 491.815 263.9540  971.685
##                 [,7524]  [,7525]  [,7526] [,7527]  [,7528] [,7529]  [,7530]
## ORI_10219_10218 397.350 255.7040  357.069 275.988 260.5470 168.545 232.0680
## ORI_10735_10730 436.341 254.8870  940.128 340.687 242.9440 268.038 458.8440
## ORI_14605_14585 435.609 174.9890  711.280 315.174 258.1850 375.002 313.5880
## ORI_14607_14586 456.660 256.0190  575.616 207.737 144.9450 205.104 238.0640
## ORI_14609_14587 468.692 298.8490  862.832 305.365 283.5820 195.934 389.4310
## ORI_14617_14591 573.915 150.1120  334.308 317.464 284.1420 156.246 343.0870
## ORI_14623_14594 381.769  75.6438  331.968 378.757 194.0660 461.322 354.8750
## ORI_14629_14597 551.692 211.0980 1050.260 252.526 152.9470 214.052 499.5700
## ORI_14631_14598 506.972 248.3950 1048.630 304.499 126.6640 314.425 237.9940
## ORI_14633_14599 493.410 110.9930  276.398 349.559 463.4280 268.525 315.8140
## ORI_14635_14600 464.592 111.6820  371.946 378.768 371.9330 371.528 250.4770
## ORI_14639_14602 259.522 220.6010  431.228 270.771 291.6780 404.347 303.2820
##                 [,7531] [,7532] [,7533]  [,7534]  [,7535]   [,7536]  [,7537]
## ORI_10219_10218 526.295 314.043 292.119  375.566  363.617  111.3690 269.8540
## ORI_10735_10730 475.626 248.884 238.150  524.992  618.952  418.7860 217.4860
## ORI_14605_14585 494.865 392.129 300.881  427.458  965.974  202.1790 157.3600
## ORI_14607_14586 516.482 491.764 254.987  453.146  440.581  832.3420 201.0010
## ORI_14609_14587 571.892 289.643 181.489  763.342  761.751  777.1020 110.1540
## ORI_14617_14591 662.456 369.046 241.874  601.291  466.181   64.1084 205.8580
## ORI_14623_14594 720.515 311.934 346.095  462.749  390.732   35.1213 174.7540
## ORI_14629_14597 728.233 293.268 365.594  419.864  710.710  753.1890  85.3092
## ORI_14631_14598 712.807 293.590 339.094  714.749  660.138  898.5810 134.9420
## ORI_14633_14599 689.607 291.967 207.854  345.244  595.724  136.1450 130.8060
## ORI_14635_14600 689.917 248.100 332.803  435.293  606.207   89.5620 132.1010
## ORI_14639_14602 811.821 212.415 297.867  506.439  677.296   77.1206 115.7590
##                  [,7538] [,7539]  [,7540]  [,7541]  [,7542] [,7543] [,7544]
## ORI_10219_10218  685.991 341.323  488.274  861.184 150.2660 418.770 366.791
## ORI_10735_10730  685.032 406.131  401.270  808.969 195.8330 340.144 314.397
## ORI_14605_14585  623.830 314.563  473.974  866.740 191.2300 251.303 348.348
## ORI_14607_14586  654.397 342.646  483.813  863.773 151.9960 328.692 217.032
## ORI_14609_14587  666.692 257.696  380.859 1001.540 221.3750 437.562 216.893
## ORI_14617_14591  815.047 463.273  356.505 1071.010 240.8820 289.154 272.367
```

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## ORI_14623_14594  707.322 414.651  441.507  760.677 158.1610 165.367 263.760
## ORI_14629_14597  733.849 298.163  471.238 1017.360 345.9610 304.536 314.711
## ORI_14631_14598  619.747 349.719  523.439  876.191 190.0330 386.595 270.833
## ORI_14633_14599  649.239 387.000  483.683 1048.610 195.9130 337.798 377.589
## ORI_14635_14600  736.366 542.578  431.153  894.955 158.4830 288.153 427.951
## ORI_14639_14602  864.843 409.845  442.893 1036.600 522.2310 265.807 340.163
##                 [,7545]  [,7546]  [,7547] [,7548] [,7549] [,7550] [,7551]
## ORI_10219_10218 273.030 1980.710 2343.670 555.644 217.082 367.665 363.919
## ORI_10735_10730 358.955  663.564 1212.070 204.466 218.091 261.435 398.495
## ORI_14605_14585 355.522  831.225 1103.420 477.409 213.969 293.336 334.346
## ORI_14607_14586 243.699 1223.770 1051.040 353.220 209.384 398.421 245.875
## ORI_14609_14587 243.991 1319.540 1504.030 258.280 212.265 318.614 512.953
## ORI_14617_14591 234.947 1741.170 2140.270 444.235 305.797 259.116 347.487
## ORI_14623_14594 313.549 1292.760 1592.280 373.786 245.019 231.878 263.987
## ORI_14629_14597 326.950  760.456  608.548 308.844 272.971 336.810 301.910
## ORI_14631_14598 280.892 1053.220 1144.190 204.447 276.282 331.684 731.176
## ORI_14633_14599 463.670 1072.600 1607.250 371.478 267.800 385.487 463.837
## ORI_14635_14600 491.810 1175.520 1846.100 375.521 280.087 285.978 245.259
## ORI_14639_14602 522.706  680.415  955.888 175.748 150.535 361.682 273.576
##                 [,7552] [,7553] [,7554] [,7555]  [,7556] [,7557] [,7558]
## ORI_10219_10218 380.310 303.233 412.038 448.382 1466.160 354.806 390.973
## ORI_10735_10730 501.265 156.689 350.311 365.617 1165.850 355.464 391.132
## ORI_14605_14585 409.081 221.571 367.716 532.414 1696.090 366.825 528.553
## ORI_14607_14586 455.966 187.418 324.338 358.109 1122.500 339.225 441.333
## ORI_14609_14587 370.504 258.816 430.877 498.394 1292.480 444.902 522.139
## ORI_14617_14591 356.094 265.093 374.185 485.202 1155.450 274.406 627.485
## ORI_14623_14594 398.422 182.734 190.431 456.137 1014.830 465.420 283.299
## ORI_14629_14597 382.312 201.328 167.468 476.819 1471.640 347.595 391.278
## ORI_14631_14598 454.638 218.595 463.284 468.029 1643.270 449.815 368.159
## ORI_14633_14599 345.623 141.310 318.279 486.856 1305.850 501.083 535.334
## ORI_14635_14600 382.560 195.493 215.436 472.628 1270.810 501.786 436.375
## ORI_14639_14602 424.597 125.377 217.223 446.452  921.557 408.572 394.623
##                 [,7559] [,7560]  [,7561] [,7562]   [,7563] [,7564] [,7565]
## ORI_10219_10218 577.899 1674.17 161.4620 315.629  188.2690 205.716 429.495
## ORI_10735_10730 556.611 1882.03 298.0450 346.605  329.2510 123.012 485.122
## ORI_14605_14585 441.316 1739.95 165.6650 401.437  418.5370 244.492 444.356
## ORI_14607_14586 422.959 1625.82  86.3016 342.252  290.1420 300.127 575.122
## ORI_14609_14587 428.750 1612.71 164.1390 572.467  474.3990 212.031 697.361
## ORI_14617_14591 353.356 2563.31 117.3950 433.626  196.1310 177.152 492.282
## ORI_14623_14594 495.578 2193.26  92.4255 435.572  260.8540 229.473 380.367
## ORI_14629_14597 551.074 1469.69 247.6820 335.749  405.9020 310.073 246.285
## ORI_14631_14598 522.049 1631.83 139.1490 478.722  270.0910 234.589 559.242
## ORI_14633_14599 512.434 2345.78 220.3180 433.341  283.2160 252.485 406.598
## ORI_14635_14600 527.850 2782.55 112.8800 719.669  250.0640 177.582 436.613
## ORI_14639_14602 528.716 2395.76 175.2740 643.687  181.8460 109.171 326.756
##                 [,7566]  [,7567]   [,7568] [,7569]   [,7570]  [,7571] [,7572]
## ORI_10219_10218 181.881 195.5720 1666.2900 213.480 4787.1000  982.682 3022.22
## ORI_10735_10730 151.937 219.4070 1215.9500 197.791  966.7310  538.239 3983.97
## ORI_14605_14585 164.471  42.9184 2088.1300 190.517 4649.7600  661.384 3976.04
## ORI_14607_14586 220.352 112.8800  565.5180 205.313 3235.3800  852.904 1981.75
## ORI_14609_14587 187.239 215.5270  704.0290 232.901 3628.8100  598.652 2758.82
## ORI_14617_14591 167.637 195.0450 1743.7100 274.831 2982.4400 1221.470 2736.77
## ORI_14623_14594 192.392  38.9175 1332.1900 224.101 3281.5000  493.098 2276.56
## ORI_14629_14597 233.478  56.5457  587.9830 189.133 1931.5000  818.852 3185.86
```

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## ORI_14631_14598 203.152  45.9719 1272.5600 214.268 3496.7800  659.251 2410.10
## ORI_14633_14599 275.860 221.9850 1117.2200 199.346 3864.2000  733.577 3223.57
## ORI_14635_14600 209.398  64.4978 1455.1500 167.224 2954.1700  687.936 2738.60
## ORI_14639_14602 206.867 235.8240  540.9070 112.512 1576.9400  490.019 2992.59
##                 [,7573]  [,7574]  [,7575] [,7576] [,7577]   [,7578]  [,7579]
## ORI_10219_10218 5949.79  7498.31 3548.540 2535.49 2905.72 2502.3100  733.971
## ORI_10735_10730 5485.41  9511.92 2542.870 4766.93 5659.98  420.4500  702.588
## ORI_14605_14585 6493.40  8546.05 2022.260 2961.14 3512.18 1071.9900  504.486
## ORI_14607_14586 3720.29  7584.47 2366.430 2139.56 2684.35  394.9020  214.522
## ORI_14609_14587 4701.29  8010.00 2276.240 2956.25 3171.77  334.2760  421.816
## ORI_14617_14591 4016.03  7373.20 3956.400 3762.90 4853.13  939.1340  360.865
## ORI_14623_14594 4821.20  6823.51 2737.510 2533.06 2950.38  559.9640  561.114
## ORI_14629_14597 5039.74  6962.81 2067.830 2542.45 2946.68   39.1785  406.068
## ORI_14631_14598 4822.84  7668.63 2695.690 2763.51 3177.45  123.3280  516.759
## ORI_14633_14599 4979.69  8379.10 2532.570 2288.19 3215.92  301.1780  592.240
## ORI_14635_14600 4378.29  5834.87 1726.290 2211.88 2467.67  460.0980  597.026
## ORI_14639_14602 4184.12  7585.44 2410.310 3629.03 4316.29  168.9340  378.833
##                 [,7580] [,7581] [,7582]  [,7583] [,7584]  [,7585] [,7586]
## ORI_10219_10218 477.704 392.791 237.295  965.768 174.700  875.097 386.260
## ORI_10735_10730 298.301 508.039 252.124  736.959 369.737  448.407 435.085
## ORI_14605_14585 322.894 345.270 265.122 1327.010 485.176  841.862 315.312
## ORI_14607_14586 263.592 443.763 220.416 1073.710 415.549  622.003 300.107
## ORI_14609_14587 369.782 353.368 397.804 1311.250 543.647  536.779 487.671
## ORI_14617_14591 406.942 334.919 313.921 1365.660 273.608  952.680 499.674
## ORI_14623_14594 280.088 273.590 237.590  858.828 388.541  782.475 317.624
## ORI_14629_14597 318.128 361.066 188.270 1253.850 758.050  320.668 252.796
## ORI_14631_14598 260.863 382.113 340.092 1526.560 359.730  347.123 422.040
## ORI_14633_14599 435.993 478.839 302.570 1336.610 342.945  488.452 329.722
## ORI_14635_14600 287.828 356.719 324.439 1647.640 399.342  648.572 352.269
## ORI_14639_14602 168.031 414.278 201.820 1130.620 312.315  400.793 231.736
##                   [,7587]   [,7588]  [,7589]  [,7590] [,7591]  [,7592]  [,7593]
## ORI_10219_10218  362.2480   52.0676  24.6827  795.900 554.337  397.595  489.925
## ORI_10735_10730  285.7560  448.2150  67.5780 1194.340 619.097  890.060 1039.140
## ORI_14605_14585   29.2159  102.7890  24.6827  842.459 503.146  737.705  772.925
## ORI_14607_14586  368.6560  208.3000  37.0094 1173.170 500.365  612.966 1503.230
## ORI_14609_14587   71.3216  142.8730  97.5365 1141.610 463.388  977.898  851.120
## ORI_14617_14591  557.2970   24.6827  24.6827  791.866 488.380  559.751  521.770
## ORI_14623_14594  252.7410   28.4608  24.6827  815.027 457.628  619.624  469.691
## ORI_14629_14597   24.6827   59.9896  24.6827  749.585 408.440  622.592  559.614
## ORI_14631_14598  103.8810  363.1140  42.6727 1227.350 704.708  784.341 1123.520
## ORI_14633_14599  194.0930   94.3385  27.0253  696.188 538.159  761.203  703.719
## ORI_14635_14600  346.7120   37.4443  24.6827 1007.710 466.941  799.238  773.429
## ORI_14639_14602  526.0860   43.6746  24.6827  875.602 506.152  551.717  819.978
##                  [,7594] [,7595]  [,7596]  [,7597]  [,7598]  [,7599]  [,7600]
## ORI_10219_10218  488.000 571.867 1551.220 1038.190  993.902  399.506  333.477
## ORI_10735_10730 1118.570 559.312 1712.290 1315.440 1092.790  691.054  838.775
## ORI_14605_14585  820.620 494.801 2143.650 1200.850 1130.920  578.383  665.152
## ORI_14607_14586 1070.140 545.525 3422.090 1116.940  933.471  553.380  551.056
## ORI_14609_14587  923.245 644.322 3088.420 1256.910  959.539  881.237  678.612
## ORI_14617_14591  520.225 543.674 1856.610 1207.630  794.116  544.728  451.994
## ORI_14623_14594  577.433 385.624 1291.770  852.116 1002.920  471.214  483.343
## ORI_14629_14597 1267.840 361.568 2078.050 1163.290 1070.370  693.576  666.821
## ORI_14631_14598 1248.700 710.502 2710.640 1280.830 1252.540 1208.750  552.406
## ORI_14633_14599  787.866 616.062 1614.690 1345.790  697.513  601.462  707.421
```

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## ORI_14635_14600 1048.250 470.409 2903.970 1295.480  859.546  564.700  520.888
## ORI_14639_14602  868.625 428.999 2660.650 1305.870  781.370  518.253  637.452
##                  [,7601]   [,7602]  [,7603]  [,7604] [,7605] [,7606]  [,7607]
## ORI_10219_10218  338.774  993.1390 1064.140  932.448 381.139 157.675  751.824
## ORI_10735_10730  991.923  339.3840 1389.210 1655.800 318.932 360.577 1134.260
## ORI_14605_14585 1153.100  701.5330 2168.230 1155.890 477.932 230.903 1278.730
## ORI_14607_14586  318.417  412.5220 3319.800 1296.480 399.588 196.896 1218.530
## ORI_14609_14587  702.064  273.2500 2330.480 1619.900 313.413 171.527 1458.400
## ORI_14617_14591  232.052  927.5830  595.822 1140.810 365.755 146.527 1562.780
## ORI_14623_14594  904.350  406.5110  515.478 1233.580 517.215 245.725 1439.020
## ORI_14629_14597  705.265  746.3170  632.481 1126.760 492.353 237.540 1664.850
## ORI_14631_14598  996.808  512.5780 1614.990 1448.650 447.465 215.560 1636.380
## ORI_14633_14599  494.575  196.6310 1288.370 1500.960 431.591 210.795 1811.400
## ORI_14635_14600  900.966  353.8430  843.585 1490.040 402.038 229.918 1884.450
## ORI_14639_14602 1222.020  661.2730  356.529 1510.210 407.855 203.936 1348.590
##                 [,7608]  [,7609]  [,7610] [,7611] [,7612] [,7613] [,7614]
## ORI_10219_10218 165.403 147.4190 1245.350 3380.60 521.841 407.028 580.380
## ORI_10735_10730 338.316 436.8020 1862.250 3974.81 626.394 453.038 654.966
## ORI_14605_14585 215.300 332.1030 1413.760 3524.89 492.758 387.664 658.127
## ORI_14607_14586 433.860 191.6190 1020.960 4001.53 387.276 449.840 623.477
## ORI_14609_14587 419.791 277.7610 1782.520 4172.09 619.042 384.842 686.138
## ORI_14617_14591 243.190 133.4790 1458.720 2671.24 455.033 365.871 835.779
## ORI_14623_14594 270.095 156.5420 1371.110 3096.69 385.008 323.695 699.840
## ORI_14629_14597 249.757 215.2590  890.710 3117.62 410.582 290.074 541.729
## ORI_14631_14598 411.426 241.2790 1497.650 3766.65 576.553 399.966 736.288
## ORI_14633_14599 231.244 257.7170 1680.210 4464.32 449.546 392.797 735.980
## ORI_14635_14600 255.263 160.0090 1911.290 4272.76 554.643 306.641 593.398
## ORI_14639_14602 257.559 256.1970 1701.920 4499.23 456.750 338.798 588.083
##                 [,7615] [,7616]   [,7617]  [,7618] [,7619] [,7620] [,7621]
## ORI_10219_10218 6259.37 7979.16   43.9733 1662.480 531.436 299.515 420.593
## ORI_10735_10730 4797.97 8762.38  244.2440 1848.090 802.325 525.168 444.520
## ORI_14605_14585 6647.65 8010.93   61.1755 1862.560 674.590 277.766 566.406
## ORI_14607_14586 5191.93 8103.37 1228.7700 1347.360 572.976 266.896 532.014
## ORI_14609_14587 5307.67 8501.92  401.8990 1260.560 841.082 402.286 421.062
## ORI_14617_14591 5589.92 6971.22   56.8251 1418.320 653.636 339.018 352.803
## ORI_14623_14594 4749.84 7253.38   44.5721  888.097 496.421 288.895 529.789
## ORI_14629_14597 5347.48 8183.99   25.3640 1461.000 341.030 260.352 495.837
## ORI_14631_14598 5743.48 8026.86  222.6060 1278.960 875.851 337.948 439.953
## ORI_14633_14599 5487.41 8827.35  124.1680 1469.650 669.162 285.788 541.656
## ORI_14635_14600 3796.75 6183.64   28.5425  986.105 726.846 335.559 512.191
## ORI_14639_14602 5143.35 7314.40  237.6260 1046.070 527.111 284.405 403.295
##                  [,7622] [,7623]  [,7624] [,7625]  [,7626]  [,7627] [,7628]
## ORI_10219_10218  527.022 848.803  145.223 255.143  615.216  759.564 1257.70
## ORI_10735_10730  887.614 477.612  559.673 394.695  757.109 1304.140 1686.80
## ORI_14605_14585  751.144 543.556  809.550 317.828  827.943  803.704 1539.12
## ORI_14607_14586  754.377 853.881  184.730 552.704  711.098 1161.510 1383.06
## ORI_14609_14587  871.028 744.011  359.363 380.071  800.224 1162.050 2129.37
## ORI_14617_14591  458.400 527.791  189.011 361.842  809.359  589.462 2073.66
## ORI_14623_14594  596.474 437.006 1010.560 304.474  662.224  749.779 1650.33
## ORI_14629_14597  667.774 687.816  351.358 273.896  953.115  839.224 1541.47
## ORI_14631_14598  880.721 718.573  559.401 358.284  815.302  911.109 2020.73
## ORI_14633_14599  839.918 630.242  530.332 418.456  861.412 1089.300 2200.59
## ORI_14635_14600  667.130 664.446  969.099 261.924  643.311  908.444 1777.62
## ORI_14639_14602  801.696 570.552 1468.210 316.640  683.110 1062.100 1280.91
```

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##                   [,7629] [,7630]  [,7631]  [,7632] [,7633] [,7634]  [,7635]
## ORI_10219_10218 1154.600 597.073 158.3050  981.736 179.302 632.987  664.407
## ORI_10735_10730 1226.740 448.429 421.2070  978.077 455.237 598.148 1291.380
## ORI_14605_14585 1262.570 453.096 450.0880 1130.910 329.703 433.803 1136.590
## ORI_14607_14586 1110.440 416.966 393.3420  998.989 431.952 288.600 1109.860
## ORI_14609_14587 1387.260 478.042 449.6300  871.085 408.231 413.663 1358.550
## ORI_14617_14591 1465.720 403.140 334.3130 1099.640 242.127 370.870  713.804
## ORI_14623_14594 1317.540 376.334 440.4700 1325.290 274.671 291.984  903.774
## ORI_14629_14597 1036.090 511.529 325.1210  968.029 179.426 189.119  908.211
## ORI_14631_14598 1336.680 548.873 601.1130 1168.390 332.326 458.645 1089.090
## ORI_14633_14599 1320.410 442.638 417.4690 1075.780 381.800 465.172 1099.450
## ORI_14635_14600 1401.580 424.990 819.9080 1053.110 381.458 352.194  825.062
## ORI_14639_14602 1447.190 291.264 379.6100  861.875 256.458 417.656  664.299
##                   [,7636]  [,7637] [,7638]  [,7639]  [,7640] [,7641]  [,7642]
## ORI_10219_10218  979.314  622.833 656.036  428.129  746.910 421.366  763.383
## ORI_10735_10730 1223.560 1288.990 632.143 1636.210  722.473 368.173  623.560
## ORI_14605_14585  738.825  845.847 604.055 1103.040  789.928 382.674  772.499
## ORI_14607_14586  856.119  774.805 769.449  388.634 1152.100 382.832 1134.530
## ORI_14609_14587  668.670  950.508 732.067  716.199  916.762 458.650 1256.660
## ORI_14617_14591  960.896  811.386 860.466  481.879  928.002 432.832 1156.570
## ORI_14623_14594 1053.390  594.203 691.134  831.062  762.166 357.559 1037.400
## ORI_14629_14597  453.101 1066.130 718.334  483.546  893.895 420.963  971.241
## ORI_14631_14598  910.361 1115.660 711.883  990.479 1080.470 452.022 1223.810
## ORI_14633_14599  611.861  872.361 699.615  392.413 1014.110 597.156  944.871
## ORI_14635_14600  866.202  888.431 777.052  806.162  959.482 449.670 1285.800
## ORI_14639_14602  473.631 1048.250 643.405 1134.890 1061.830 373.774 1136.880
##                  [,7643] [,7644]  [,7645] [,7646]  [,7647] [,7648]  [,7649]
## ORI_10219_10218 430.921 272.136  865.823 397.797 1361.730 523.652  849.626
## ORI_10735_10730 454.439 461.696  902.081 212.413 1017.190 431.100  864.014
## ORI_14605_14585 438.825 299.015 1094.670 319.814 1334.360 385.595  737.614
## ORI_14607_14586 421.123 318.705  862.813 319.087  830.804 332.730  697.584
## ORI_14609_14587 515.855 479.344 1154.720 268.795 1151.260 475.498 1039.390
## ORI_14617_14591 551.360 322.297 1220.720 396.660 1396.060 369.607  676.813
## ORI_14623_14594 324.013 331.322  581.218 290.206 1028.550 292.792  459.437
## ORI_14629_14597 840.672 465.167  661.878 331.913 1431.850 395.340  613.398
## ORI_14631_14598 382.692 542.716  887.290 239.648 1187.600 496.156  900.023
## ORI_14633_14599 403.936 312.824 1385.610 259.386 1528.620 313.331  895.497
## ORI_14635_14600 335.903 389.512 1316.930 371.007 1106.310 317.734  743.007
## ORI_14639_14602 217.736 483.463  840.601 190.073 1085.130 413.013  655.036
##                  [,7650] [,7651]  [,7652] [,7653]  [,7654]  [,7655] [,7656]
## ORI_10219_10218 526.137 418.589 1070.670 497.074  588.837 3994.210 288.056
## ORI_10735_10730 302.256 595.677  577.022 396.305  680.466 2411.030 370.552
## ORI_14605_14585 437.903 381.381  533.397 366.862  610.013 2048.080 355.196
## ORI_14607_14586 494.171 528.869  783.894 525.488  653.734 2097.360 411.036
## ORI_14609_14587 399.008 605.117  851.129 456.137 1067.280 1390.570 388.681
## ORI_14617_14591 317.879 672.462 1118.920 496.375  613.642 3369.680 339.895
## ORI_14623_14594 568.978 431.584  573.634 353.299  632.443 2242.920 321.321
## ORI_14629_14597 701.775 260.820  501.597 330.585  815.114 2535.840 141.030
## ORI_14631_14598 566.727 566.265  609.334 293.883  834.965 1831.800 416.575
## ORI_14633_14599 449.752 544.435  666.826 385.624  694.784 2365.050 323.530
## ORI_14635_14600 471.756 639.110  852.726 317.860  517.126 1698.480 229.026
## ORI_14639_14602 466.949 504.462  575.954 288.480  595.005 1829.660 233.771
##                    [,7657]  [,7658]  [,7659]  [,7660]  [,7661] [,7662]  [,7663]
## ORI_10219_10218  318.5270  992.708  446.132 1193.880  691.586 222.317 1592.830
```

```
## ORI_10735_10730 1507.5000  784.663  706.750 1040.830 1059.480 344.869 1183.210
## ORI_14605_14585 2024.6200 1251.630  499.836 1262.530  733.486 265.234  950.981
## ORI_14607_14586 1709.3000 1049.740  663.754 1226.850 2370.720 370.950 1841.130
## ORI_14609_14587  691.7870 1305.650  458.986 1416.260 1856.160 265.616 1450.010
## ORI_14617_14591  175.3670  888.695  525.126 1288.640  595.200 279.418 1810.760
## ORI_14623_14594  306.9800 1141.940  509.497 1086.110  740.232 321.717 1509.040
## ORI_14629_14597  455.4850 1170.560  393.475 1014.220 1392.370 211.649 1434.840
## ORI_14631_14598  711.6240 1399.620  449.504 1562.930 1365.030 406.339 1247.160
## ORI_14633_14599  706.3410 1043.950  689.799  758.943  686.075 300.952 1187.580
## ORI_14635_14600  439.8840 1550.970  680.912 1182.220  512.899 304.717  971.172
## ORI_14639_14602  180.4440  885.939  638.935 1168.060  482.373 485.630 1314.990
##                  [,7664]  [,7665]  [,7666]  [,7667] [,7668]  [,7669]  [,7670]
## ORI_10219_10218 568.1670 149.2240  380.293 346.4890 340.787  576.600 347.4070
## ORI_10735_10730  57.5341 142.3570  374.098 225.8630 362.764  558.689  24.6827
## ORI_14605_14585 438.2110 212.4420  331.850 217.2290 382.396  677.823 172.6150
## ORI_14607_14586  40.8502 184.0450  261.222 348.2120 276.789  690.511 139.1910
## ORI_14609_14587 152.6680 143.5550  502.561 252.1000 289.630  835.280 183.0820
## ORI_14617_14591  91.6217 150.7500  459.286 426.1060 352.239  811.337 131.3930
## ORI_14623_14594 122.7590 132.3170  388.158 335.8750 273.623  472.482 218.4530
## ORI_14629_14597  35.1413 276.7580  302.512 359.5490 230.932  401.503 166.8860
## ORI_14631_14598  86.6782 163.5530 2071.080 187.4470 318.844  720.784 116.6800
## ORI_14633_14599  50.5824 180.8340  616.783 211.9350 244.677  677.267 147.2980
## ORI_14635_14600 206.8510 136.2040  411.162 228.4870 197.217  681.582 192.3020
## ORI_14639_14602  70.9521 234.8640  143.776 242.7910 123.930  242.359 179.0620
##                 [,7671] [,7672]  [,7673]  [,7674]  [,7675] [,7676] [,7677]
## ORI_10219_10218 376.105 414.344 1058.270  694.437 1038.150 341.186 325.032
## ORI_10735_10730 409.925 425.745  896.557 1176.210  712.742 471.505 261.177
## ORI_14605_14585 274.932 467.852  959.677  742.573 1111.740 474.479 286.732
## ORI_14607_14586 382.855 534.380  949.481  670.251  830.105 458.563 225.550
## ORI_14609_14587 515.028 691.363  621.851 1213.680  896.271 587.441 154.843
## ORI_14617_14591 450.028 467.935  618.148  946.803  985.539 417.886 125.111
## ORI_14623_14594 260.046 361.382  838.742  865.420  548.766 425.377 302.244
## ORI_14629_14597 294.310 541.168  619.680 1022.700  500.743 903.146 314.209
## ORI_14631_14598 357.395 595.425  728.175  906.510  502.374 659.509 239.917
## ORI_14633_14599 445.161 720.579  860.699  713.887  496.141 406.089 278.743
## ORI_14635_14600 311.862 500.793  778.217  757.618  645.720 370.184 271.150
## ORI_14639_14602 150.472 368.943  775.732  764.654  409.307 602.742 227.670
##                  [,7678] [,7679]  [,7680] [,7681] [,7682]   [,7683]  [,7684]
## ORI_10219_10218 330.3670 286.506 107.5270 344.940 522.885  181.9060 1534.320
## ORI_10735_10730 238.7710 295.164 161.6000 598.386 701.167  819.6260 1819.710
## ORI_14605_14585 264.3310 398.780 188.3720 377.714 572.689  161.8090 1401.270
## ORI_14607_14586 281.7870 512.539 185.7720 250.981 522.463  379.4680 1695.530
## ORI_14609_14587 170.7350 330.771 240.1660 548.786 483.273  423.6190 2237.800
## ORI_14617_14591 313.1590 750.183 261.5850 342.565 446.441  138.5770 1397.090
## ORI_14623_14594 237.1430 548.574 234.2830 339.192 612.041   63.7946 1072.020
## ORI_14629_14597 293.8210 375.490 211.6260 278.907 532.285  319.5100 1412.150
## ORI_14631_14598 326.0290 247.723 151.5460 357.803 466.968  503.8260 1972.750
## ORI_14633_14599 436.9440 388.780 277.1380 346.111 787.487  149.0190 1721.900
## ORI_14635_14600 312.5390 651.536 297.2080 522.280 501.520   60.7461 1185.010
## ORI_14639_14602 255.0430 316.335 238.0230 299.230 437.911  121.5110 1311.460
##                 [,7685]  [,7686]  [,7687]  [,7688]  [,7689]  [,7690] [,7691]
## ORI_10219_10218 2324.58 1423.790 1049.360 1370.460 1580.110  910.962 279.400
## ORI_10735_10730 1716.30 1951.850  603.060 2000.010 1188.260  943.051 236.715
## ORI_14605_14585 2283.63 1197.850  859.221 1196.390 1237.610  845.944 208.867
```

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## ORI_14607_14586 2201.14 1469.780 1042.110 1219.620 1288.650  820.262 202.471
## ORI_14609_14587 2639.01 1191.000 1046.090 1660.420 1148.890  846.403 309.677
## ORI_14617_14591 2432.47 1744.010 1215.320 1530.460 1747.190  954.017 285.029
## ORI_14623_14594 1990.11 1216.560  881.451 1185.880 1443.340  565.743 178.758
## ORI_14629_14597 1566.69 1217.770 1029.740  641.141 1214.810  817.027 387.222
## ORI_14631_14598 1845.95 1339.650 1169.750 1708.680 1760.540  735.255 300.810
## ORI_14633_14599 2749.44 1274.880 1190.640 1670.120 1487.400 1085.140 275.556
## ORI_14635_14600 2307.50 1199.040 1175.460 1108.180 2332.270  643.387 193.856
## ORI_14639_14602 2046.88 1515.910  966.532 2230.800 1051.880  854.567 138.626
##                 [,7692]  [,7693]  [,7694]   [,7695]  [,7696]  [,7697] [,7698]
## ORI_10219_10218 194.895 1022.030  781.172  499.7420 215.3730  435.960 180.006
## ORI_10735_10730 210.798 1078.130  520.824  514.0710  59.9028  786.903 465.166
## ORI_14605_14585 285.846  891.683  496.632  316.9150 228.5130  701.653 197.285
## ORI_14607_14586 265.740  994.288  615.273  687.8060 117.3760  519.790 241.273
## ORI_14609_14587 295.098 1248.740  365.525  695.7290 142.0550  861.296 297.551
## ORI_14617_14591 326.476  935.876  596.558  102.9970  90.8716  672.917 274.494
## ORI_14623_14594 232.576  767.170  625.348  342.9280 236.4140  641.373 249.641
## ORI_14629_14597 288.892 1143.290  641.391   24.6827  78.9062  499.549 128.295
## ORI_14631_14598 217.519 1044.940  510.194  449.1860  80.4065  710.532 245.730
## ORI_14633_14599 273.760  832.744  511.602  402.0000 142.8890  675.062 305.627
## ORI_14635_14600 261.174  716.665  484.228  296.7300 193.5980  646.390 265.571
## ORI_14639_14602 330.106  320.631  502.188  318.5440  87.6894  572.195 234.725
##                  [,7699] [,7700] [,7701]  [,7702]  [,7703] [,7704] [,7705]
## ORI_10219_10218 1613.920 290.374 277.929  853.256  414.470 464.174 562.816
## ORI_10735_10730 1305.110 209.394 373.152  682.530  372.281 503.384 407.669
## ORI_14605_14585 1280.470 250.096 487.158  796.909  214.396 731.804 391.077
## ORI_14607_14586 1384.570 264.992 290.896  826.960  257.138 604.870 402.439
## ORI_14609_14587 1195.190 235.671 371.593  927.875  401.501 717.007 500.744
## ORI_14617_14591 2355.090 335.552 397.729  818.376  373.719 736.376 659.959
## ORI_14623_14594 1520.460 301.549 350.219 1188.370  291.757 591.757 532.110
## ORI_14629_14597 1825.980 293.636 383.068 1006.250  166.181 608.150 363.135
## ORI_14631_14598 1183.230 325.674 348.317 1061.220  340.960 840.092 475.775
## ORI_14633_14599 1612.800 298.050 368.599  897.029  263.775 632.487 345.154
## ORI_14635_14600 1160.810 324.145 436.426 1366.110  399.399 669.709 539.913
## ORI_14639_14602 1293.050 272.824 437.441  641.690  332.636 577.352 360.721
##                 [,7706] [,7707] [,7708] [,7709] [,7710] [,7711]  [,7712]
## ORI_10219_10218 244.127 1759.53 430.481 385.486 221.699 647.309  809.273
## ORI_10735_10730 335.726 1855.15 578.013 377.321 367.689 558.010  538.961
## ORI_14605_14585 308.865 1867.48 562.445 410.229 370.087 568.401  905.838
## ORI_14607_14586 181.875 1611.14 492.586 582.447 456.513 505.513  777.384
## ORI_14609_14587 256.511 1885.55 568.784 523.077 386.812 818.137 1136.070
## ORI_14617_14591 199.777 2032.40 652.376 530.449 444.304 841.601  738.210
## ORI_14623_14594 276.140 1916.01 628.076 420.759 473.901 483.021 1277.080
## ORI_14629_14597 272.055 1566.07 463.458 264.430 308.854 425.484 1322.100
## ORI_14631_14598 196.926 1862.47 536.600 439.852 447.140 723.858 1106.390
## ORI_14633_14599 353.782 1338.37 752.106 423.640 458.766 656.481  965.600
## ORI_14635_14600 364.377 1498.39 743.656 436.850 545.805 753.424 1248.120
## ORI_14639_14602 341.733 1412.43 578.078 255.065 386.288 379.604 1217.950
##                 [,7713] [,7714]  [,7715] [,7716]  [,7717] [,7718] [,7719]
## ORI_10219_10218 188.700 645.301  452.550 505.210  950.057 657.058 460.986
## ORI_10735_10730 372.704 679.619  308.529 546.962  785.165 660.995 396.476
## ORI_14605_14585 188.634 661.441  470.869 659.417  711.199 492.446 549.814
## ORI_14607_14586 211.186 659.913  319.591 571.473  670.622 507.221 289.668
## ORI_14609_14587 306.116 559.603  372.363 797.021  967.668 452.907 376.625
```

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## ORI_14617_14591 197.125 618.361  641.270 573.262  974.833 511.044 262.427
## ORI_14623_14594 149.807 725.522  386.618 426.166  668.219 772.562 369.317
## ORI_14629_14597 208.240 731.905  372.327 713.855  644.360 616.495 463.724
## ORI_14631_14598 239.209 542.621  412.179 696.476  686.143 455.272 356.418
## ORI_14633_14599 248.877 598.568  411.382 649.209  596.881 583.114 551.880
## ORI_14635_14600 224.009 694.807  359.151 416.019  568.170 823.669 428.235
## ORI_14639_14602 220.160 554.388  223.995 477.618  336.984 486.762 306.502
##                  [,7720]  [,7721] [,7722]  [,7723]  [,7724]   [,7725] [,7726]
## ORI_10219_10218  914.811  855.280 454.903  326.214 164.0710  251.8180 643.260
## ORI_10735_10730  634.532  865.163 309.374  679.648 150.0940  374.4110 326.914
## ORI_14605_14585  938.236  848.151 221.629  656.927  36.4507  528.3990 502.235
## ORI_14607_14586  768.748  967.589 223.124  614.053 159.1950  158.2900 475.004
## ORI_14609_14587 1049.740  965.767 583.874  751.072 205.0690  347.0210 346.106
## ORI_14617_14591 1159.000  871.750 265.674  722.991 176.1180  193.1510 350.639
## ORI_14623_14594  679.335  810.745 237.348  367.266  40.8884  299.6250 508.489
## ORI_14629_14597  945.168  798.713 320.778  705.932  26.4525  129.9320 625.500
## ORI_14631_14598  597.210  889.939 528.438  879.062  24.6827  298.6860 503.552
## ORI_14633_14599 1164.000 1012.760 250.664  648.042 212.5950  691.8830 609.561
## ORI_14635_14600  737.393  938.406 294.173  563.696  57.1725  598.9480 503.696
## ORI_14639_14602  573.852  981.142 197.753  594.469 180.1320  223.3290 450.281
##                 [,7727]  [,7728]  [,7729]  [,7730]  [,7731]   [,7732] [,7733]
## ORI_10219_10218 406.674  612.983 2335.720 1474.380 171.2650  321.6920 2283.06
## ORI_10735_10730 263.968  845.707  714.041 1080.130 498.8560  656.1810 1822.13
## ORI_14605_14585 399.745  775.260  702.781 1914.910 178.3020  732.0860 2060.64
## ORI_14607_14586 329.885  855.270  963.163 1898.360 279.0500 1851.2300 2170.67
## ORI_14609_14587 321.142  766.302  591.512 1907.070 411.5850 1138.2400 2339.13
## ORI_14617_14591 318.046  625.087 1721.990 1027.090  34.8733  174.1390 1967.14
## ORI_14623_14594 282.626  389.538 1035.490  757.567  64.7313  181.5310 1883.01
## ORI_14629_14597 141.119  638.653  537.266 1015.790 142.4600  341.3220 2183.48
## ORI_14631_14598 253.459  613.290  584.612 1838.740 308.6300  804.9260 2299.74
## ORI_14633_14599 318.710  674.236  636.844  933.973  93.0014  565.8760 2071.51
## ORI_14635_14600 275.974  521.275  620.360  851.520  41.6291  296.8530 1827.21
## ORI_14639_14602 195.602  849.753  371.658  478.530  52.4365  145.8350 1264.24
##                 [,7734] [,7735]  [,7736]  [,7737] [,7738] [,7739]  [,7740]
## ORI_10219_10218 333.348 225.025 142.3940  515.290 222.104 158.057 1131.690
## ORI_10735_10730 343.834 360.476 290.6280 2284.030 184.923 263.482 1154.100
## ORI_14605_14585 412.285 231.960 182.2420 1423.090 350.693 192.503 1241.320
## ORI_14607_14586 474.942 263.243 461.1480 1320.900 475.468 330.490  747.086
## ORI_14609_14587 449.372 236.247 265.3900 1032.010 297.327 277.309 1184.060
## ORI_14617_14591 585.707 227.836  63.5929  322.658 201.297 236.737 1031.570
## ORI_14623_14594 366.232 239.471 128.1700  494.423 248.057 250.304  905.485
## ORI_14629_14597 493.513 173.692 114.5150 1197.120 173.328 674.577  878.367
## ORI_14631_14598 530.457 269.159 283.3230 1071.960 343.744 635.571 1436.430
## ORI_14633_14599 406.821 336.567 137.0820 1216.050 418.318 256.902 1348.860
## ORI_14635_14600 327.828 415.740 136.0740  612.730 330.079 188.164 1283.560
## ORI_14639_14602 363.534 366.976 121.7660 1427.050 239.641 290.532 1057.950
##                   [,7741]  [,7742]  [,7743]  [,7744]  [,7745]  [,7746] [,7747]
## ORI_10219_10218  112.9060  361.255  640.180 1045.980 1440.850  823.543 369.765
## ORI_10735_10730  565.0700 1349.950 1158.710  975.987 1848.170  636.647 565.980
## ORI_14605_14585  678.6590  604.907 1018.770  702.718 1214.290  682.309 597.043
## ORI_14607_14586 1138.6400 1380.380 1235.450  892.048 1557.950  815.175 816.710
## ORI_14609_14587 1337.9500 1074.780  965.301  951.900 1252.610  781.340 768.874
## ORI_14617_14591 1150.2700  639.618 1007.940  833.990 1844.920  834.226 705.390
## ORI_14623_14594  131.0860  418.493  639.110  538.466 1214.580  604.967 533.950
```

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## ORI_14629_14597  339.2330  720.227 1294.980 1353.120 1644.280  601.084 549.266
## ORI_14631_14598  311.8360  926.255 1113.850 1031.790 1422.560  769.450 748.645
## ORI_14633_14599  855.4780  870.169  855.938  816.184 1751.750 1109.410 417.606
## ORI_14635_14600  347.2380  460.906  574.771  691.397 1505.730  661.268 557.023
## ORI_14639_14602   45.6269  605.463  925.623  842.252 2515.460  675.300 540.048
##                  [,7748] [,7749]  [,7750]  [,7751]  [,7752]  [,7753] [,7754]
## ORI_10219_10218  332.059 152.363  24.6827 133.9920 2521.720  565.071 223.994
## ORI_10735_10730 2291.500 340.009 257.1520 128.6610 8255.730 1159.750 472.447
## ORI_14605_14585  365.030 298.069  24.6827  97.7363 5120.480  717.116 215.003
## ORI_14607_14586 1782.290 343.451  24.6827 309.8110 7393.710 1182.210 187.471
## ORI_14609_14587 3054.850 257.111  24.6827 201.2640 5715.180  812.191 235.085
## ORI_14617_14591  739.184 139.145  24.6827 217.3780 2142.920  399.322 115.220
## ORI_14623_14594  791.036 159.346  24.6827  98.4429 2519.840  645.633 220.657
## ORI_14629_14597 2463.630 348.949  24.6827 100.3040 6894.990  784.066 140.684
## ORI_14631_14598 3116.820 270.692 536.9560 170.5550 5263.900  778.305 249.820
## ORI_14633_14599  687.374 280.796  45.4640  95.4356 4869.110  563.007 174.238
## ORI_14635_14600  769.193 152.587  24.6827  74.9421 5117.680  823.916 189.434
## ORI_14639_14602 2218.670 256.474 418.3800 168.3760 5144.770  983.743 188.248
##                 [,7755]  [,7756] [,7757]  [,7758] [,7759] [,7760] [,7761]
## ORI_10219_10218 202.151  454.325 506.436  502.490 341.510 251.189 427.608
## ORI_10735_10730 156.506 1007.650 424.454  629.425 192.662 257.043 566.507
## ORI_14605_14585 206.770  449.869 453.601  824.828 329.489 358.266 380.693
## ORI_14607_14586 280.223 1018.640 454.660 1075.590 356.025 400.755 682.787
## ORI_14609_14587 180.151 1189.720 554.966 1399.920 496.505 319.129 518.266
## ORI_14617_14591 210.652  278.373 560.635 1106.630 611.001 330.517 788.987
## ORI_14623_14594 268.147  266.321 402.901  613.641 333.150 315.652 544.790
## ORI_14629_14597 268.711 1089.450 528.831 1445.410 222.842 411.447 407.775
## ORI_14631_14598 244.790  966.889 490.025  761.304 260.793 392.856 598.362
## ORI_14633_14599 163.534  527.728 660.392  765.888 237.146 317.105 514.259
## ORI_14635_14600 200.913  474.885 431.898  941.089 377.628 439.706 612.734
## ORI_14639_14602 207.589  833.138 369.916  751.322 179.605 177.332 593.143
##                  [,7762]  [,7763] [,7764]  [,7765] [,7766]  [,7767] [,7768]
## ORI_10219_10218  805.155  754.668 490.004  756.460 402.636  651.792 331.701
## ORI_10735_10730  710.300 1238.440 487.132 1233.550 335.728  822.059 389.418
## ORI_14605_14585  663.033  846.005 462.427 1063.870 456.624  462.130 411.594
## ORI_14607_14586 1027.400  938.355 411.344 1370.490 399.462  503.190 386.978
## ORI_14609_14587  786.779  730.852 438.089 1536.030 369.493  824.673 516.088
## ORI_14617_14591 1028.190  671.305 475.040 1635.240 338.202  744.434 511.260
## ORI_14623_14594  571.154  734.821 505.331 1066.880 243.143  457.855 246.260
## ORI_14629_14597  679.910  745.019 485.467  733.335 325.752  843.254 340.870
## ORI_14631_14598  638.865  770.583 446.283 1250.420 365.480  900.081 310.002
## ORI_14633_14599  746.303  918.441 433.534 1096.110 273.738  594.558 476.433
## ORI_14635_14600  613.634  582.765 506.206 1083.780 391.382  677.951 543.665
## ORI_14639_14602  713.653  754.290 434.471  834.534 266.977  497.851 358.246
##                 [,7769] [,7770] [,7771]  [,7772]  [,7773]  [,7774]  [,7775]
## ORI_10219_10218 672.471 462.759 677.000 153.3320 248.7350 5278.160 1053.890
## ORI_10735_10730 412.783 516.867 668.213 233.9200 183.6540  218.226  995.090
## ORI_14605_14585 539.569 574.894 778.888 177.8680 242.3610  364.273  902.876
## ORI_14607_14586 487.093 626.988 678.515 103.7220 267.8220 2320.680 1121.990
## ORI_14609_14587 590.895 676.458 737.172 224.8520 230.1790  747.633  830.330
## ORI_14617_14591 723.082 436.866 903.825 197.8080 140.4820 5279.210 1016.840
## ORI_14623_14594 474.731 427.285 830.510 136.2670 111.1840 3067.780  992.854
## ORI_14629_14597 404.248 542.524 697.931 167.8420  96.9344  512.082  745.794
## ORI_14631_14598 646.256 705.349 876.639 119.9060 226.1730  636.596  696.874
```

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## ORI_14633_14599 510.340 450.727 939.167 169.8370 171.0080 1492.590 1064.830
## ORI_14635_14600 453.941 545.609 914.928 203.3790 163.1520 2583.800  712.291
## ORI_14639_14602 421.026 573.385 556.369 208.0170 173.2150 1341.960  696.971
##                  [,7776]  [,7777]  [,7778]  [,7779] [,7780]   [,7781]  [,7782]
## ORI_10219_10218  364.754  955.957  672.430  242.031 3979.82 1545.9800  566.299
## ORI_10735_10730  936.201  881.707  455.611 1149.470 4015.35  687.9840  863.570
## ORI_14605_14585  385.458  842.678  666.546  261.182 1744.98  665.6910  734.448
## ORI_14607_14586 1130.270  883.690  326.973 1010.720 1998.89  640.8540  796.400
## ORI_14609_14587  746.851  692.304  253.099 1040.460 1959.59  574.1610  695.107
## ORI_14617_14591  281.369  943.405  132.932  377.488 1901.93 1524.6500  469.141
## ORI_14623_14594  287.839  995.326  184.690  233.372 2848.05 1110.3500  320.932
## ORI_14629_14597  835.323  580.126  303.739  284.804 2364.27  321.9310  465.239
## ORI_14631_14598  703.659  756.671  426.651  499.015 2358.85  534.7950  486.430
## ORI_14633_14599  528.552  980.424  168.803  624.887 2573.40 1107.4100  606.538
## ORI_14635_14600  197.347 1276.960  207.903  283.399 2293.94 1149.4000  392.096
## ORI_14639_14602  352.251 1000.610  162.295  458.057 2408.06  679.6100  225.433
##                  [,7783]   [,7784] [,7785]  [,7786] [,7787] [,7788] [,7789]
## ORI_10219_10218 1327.880  221.7260 324.865 1247.230 1561.29 301.747 475.134
## ORI_10735_10730  537.113  145.4950 442.937  861.122 2016.64 507.067 674.619
## ORI_14605_14585  874.371  119.4380 328.302  898.121 1256.59 292.581 515.093
## ORI_14607_14586  725.717  130.1280 386.266 1002.610 1478.48 338.898 488.387
## ORI_14609_14587 1040.750  265.8680 473.640  802.727 1910.94 415.179 517.764
## ORI_14617_14591 1619.470  166.9710 387.626  760.591 1568.51 259.315 486.703
## ORI_14623_14594  754.236   90.5587 264.621  644.252 1368.98 260.645 431.811
## ORI_14629_14597  601.037  218.3040 592.004  869.584 1955.17 449.536 663.491
## ORI_14631_14598  925.654  429.9750 492.011  694.060 2027.27 495.795 648.565
## ORI_14633_14599 1210.900   43.7865 432.498 1222.480 1633.11 343.465 552.503
## ORI_14635_14600 1032.850   36.1673 387.159  511.238 1571.54 277.552 515.078
## ORI_14639_14602  533.213   87.7189 494.628  533.969 1433.84 326.832 528.600
##                  [,7790] [,7791] [,7792]  [,7793] [,7794]  [,7795] [,7796]
## ORI_10219_10218  445.532 291.594 312.604  990.816 506.318  816.976 487.910
## ORI_10735_10730  648.937 325.089 654.176  535.154 533.360 1198.100 343.434
## ORI_14605_14585  400.875 384.533 334.948 1232.420 756.203 1010.470 483.998
## ORI_14607_14586  481.622 346.868 474.528 1300.020 599.120 1606.210 341.336
## ORI_14609_14587  839.293 326.020 557.959 1166.460 734.512 1571.780 304.720
## ORI_14617_14591  557.723 243.506 309.659 1145.440 834.827  891.512 298.561
## ORI_14623_14594  278.161 349.347 421.397 1150.950 732.314  700.415 508.929
## ORI_14629_14597 1061.550 489.454 504.902 1537.270 554.230 1165.420 450.566
## ORI_14631_14598  862.727 399.198 589.781  998.672 703.132 1422.730 354.473
## ORI_14633_14599  712.729 382.031 442.668 1222.920 517.916  926.970 483.519
## ORI_14635_14600  632.974 381.599 514.538 1033.250 706.634  706.253 488.510
## ORI_14639_14602  328.710 370.181 400.875  763.258 506.455 1021.330 514.087
##                 [,7797] [,7798] [,7799] [,7800] [,7801]  [,7802] [,7803]
## ORI_10219_10218 265.991 352.760 336.706 402.573 525.988  282.934 128.018
## ORI_10735_10730 379.334 558.888 523.879 688.031 571.611  710.032 319.375
## ORI_14605_14585 266.675 434.955 423.301 366.913 619.660  500.164 132.321
## ORI_14607_14586 285.243 360.155 454.974 492.090 515.494  765.992 187.217
## ORI_14609_14587 492.492 451.681 473.071 577.751 325.996  643.977 314.239
## ORI_14617_14591 280.561 255.024 553.191 699.602 397.546  383.323 283.007
## ORI_14623_14594 199.555 547.815 363.070 401.711 830.332  353.613 233.172
## ORI_14629_14597 321.502 432.507 505.564 472.920 502.607  711.193 283.200
## ORI_14631_14598 314.963 637.899 385.267 483.720 516.897  735.833 466.624
## ORI_14633_14599 236.149 454.067 490.921 462.636 656.496  534.982 335.685
## ORI_14635_14600 307.413 670.386 247.433 518.032 683.047  479.640 659.531
```

```
## ORI_14639_14602 244.207 457.943 352.774 708.469 640.584  656.401 142.564
##                 [,7804]  [,7805]  [,7806] [,7807]   [,7808]  [,7809] [,7810]
## ORI_10219_10218 487.809  504.292  924.447 724.498   24.6827 249.8990 472.142
## ORI_10735_10730 504.375  713.453  437.848 474.794  739.5550  88.8274 219.725
## ORI_14605_14585 413.862  735.498  525.931 567.454  188.1320 196.5600 499.891
## ORI_14607_14586 475.992  557.841  412.679 675.815  144.4280 279.9380 352.865
## ORI_14609_14587 455.619  783.691  560.255 389.383  614.1440  73.8612 358.055
## ORI_14617_14591 585.438  612.064  963.203 503.139  228.0500 706.2740 480.730
## ORI_14623_14594 593.270  505.725  526.028 704.391  233.8810 518.9020 395.619
## ORI_14629_14597 301.837  771.716  383.775 634.193 1471.5300 109.9500 264.096
## ORI_14631_14598 413.771  644.899  376.592 548.968  757.5250 696.9130 634.962
## ORI_14633_14599 592.193 1049.800  521.166 513.698  239.0300 149.5520 201.023
## ORI_14635_14600 963.603  625.358  437.253 518.133  257.5800 234.1090 231.036
## ORI_14639_14602 402.552  566.418  351.470 423.720  776.3480  96.3912 166.025
##                  [,7811] [,7812]   [,7813]  [,7814]  [,7815]  [,7816] [,7817]
## ORI_10219_10218  264.784 274.779  462.2540  517.041  906.607 188.0940 286.554
## ORI_10735_10730  644.322 361.527   28.5190  903.603  668.211  90.8109 184.515
## ORI_14605_14585  485.483 443.798   31.7406  586.287  972.027  84.4609 267.186
## ORI_14607_14586  197.464 439.976  516.4280  629.457  933.627  99.1907 192.289
## ORI_14609_14587  412.693 309.446   39.7128  687.575 1009.370  83.8295 148.424
## ORI_14617_14591  382.447 476.226  632.3240  484.317 1143.500 136.0530 308.926
## ORI_14623_14594  579.200 507.447  209.0620  353.042  937.201 155.0150 345.757
## ORI_14629_14597  331.149 414.597   24.6827  944.023 1202.110 120.3740 299.486
## ORI_14631_14598  471.288 303.762   24.6827  709.127 1126.090  90.9997 201.428
## ORI_14633_14599  471.956 463.881   24.6827  479.469 1094.900 105.4810 229.339
## ORI_14635_14600  513.048 483.521  104.1140  464.492  828.726 117.6440 235.271
## ORI_14639_14602  625.707 410.803  230.3970 1089.040  725.513 122.3840 272.556
##                 [,7818] [,7819]   [,7820] [,7821] [,7822]  [,7823]  [,7824]
## ORI_10219_10218 546.776 279.304  139.0530 240.017 412.760 1074.990 1452.020
## ORI_10735_10730 397.604 230.408  643.2480 201.430 243.618 1063.800 1086.490
## ORI_14605_14585 503.026 333.406  292.9880 266.956 345.713 1099.620 1945.310
## ORI_14607_14586 404.493 200.528  412.5110 116.212 245.381  785.303 1729.140
## ORI_14609_14587 292.498 176.735  657.4490 180.548 232.049 1227.410 1662.840
## ORI_14617_14591 466.527 228.288  298.0570 225.978 256.175 1106.940 1426.150
## ORI_14623_14594 724.528 373.482  265.5670 304.543 384.716  853.016 1506.560
## ORI_14629_14597 496.134 289.270  249.9980 215.882 341.088  969.131 2209.650
## ORI_14631_14598 424.789 302.039  423.1130 259.857 310.064 1095.420 1506.710
## ORI_14633_14599 398.048 267.871  382.8770 256.510 400.941 1152.490 1518.360
## ORI_14635_14600 481.872 309.854  461.2970 312.137 397.844  960.272 1711.270
## ORI_14639_14602 656.767 300.702   76.1962 310.092 360.256  792.314 1093.950
##                  [,7825]  [,7826] [,7827]  [,7828] [,7829] [,7830]  [,7831]
## ORI_10219_10218 1320.930  481.756 394.688  847.967 269.550 417.732 253.0280
## ORI_10735_10730 1281.060  885.727 306.246  320.988 193.488 644.891 221.4210
## ORI_14605_14585 1182.370  614.618 551.830  553.668 248.283 499.396 156.5660
## ORI_14607_14586  983.072  706.789 398.579  940.975 243.776 428.499 111.4240
## ORI_14609_14587 1091.260 1142.910 381.174  772.614 251.008 567.305 186.4960
## ORI_14617_14591 1487.070  513.777 340.845  544.180 229.714 491.319 178.6930
## ORI_14623_14594  983.809  456.440 562.639  363.341 170.121 512.739 153.5780
## ORI_14629_14597 1370.910  878.246 374.378  463.855 140.506 452.150 164.9260
## ORI_14631_14598 1306.980 1202.910 428.225  537.776 223.978 757.532 126.2860
## ORI_14633_14599 1140.010  662.616 517.809  514.752 247.371 465.056 193.0760
## ORI_14635_14600  819.817  533.576 586.089  413.030 187.747 692.210 163.2400
## ORI_14639_14602 1043.890  411.913 411.447  401.333 309.051 493.098 196.5910
##                  [,7832] [,7833]   [,7834]  [,7835] [,7836] [,7837] [,7838]
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## ORI_10219_10218  442.829 212.118   24.6827 235.0600 389.338 457.696 363.004
## ORI_10735_10730  643.452 238.157   24.6827  42.9780 298.225 453.298 323.436
## ORI_14605_14585  475.633 353.444 2459.6200  47.7164 310.044 513.298 456.259
## ORI_14607_14586 1388.660 205.338   24.6827  70.3867 761.752 664.874 493.880
## ORI_14609_14587  882.700 190.312   24.6827 153.7280 289.155 551.484 283.627
## ORI_14617_14591  357.349 250.853   24.6827 251.1450 241.010 581.148 249.328
## ORI_14623_14594  352.344 422.006 3028.5400 101.8430 213.812 438.645 435.602
## ORI_14629_14597  368.531 382.160 2530.7100  86.6828 293.002 513.047 491.516
## ORI_14631_14598  622.114 265.709 1872.7100 164.2670 388.279 579.725 390.852
## ORI_14633_14599  584.047 392.609   25.6792  38.1935 398.715 417.000 410.944
## ORI_14635_14600  352.571 396.710 3654.4100  69.3738 259.552 373.107 467.175
## ORI_14639_14602  442.443 349.467   24.6827 132.3420 181.358 362.443 481.377
##                 [,7839]  [,7840]  [,7841] [,7842]  [,7843]  [,7844]  [,7845]
## ORI_10219_10218 441.319  933.880  882.515 598.497  562.154 248.8790  500.177
## ORI_10735_10730 542.310 1515.920  518.878 778.260  775.075 150.6690 1060.280
## ORI_14605_14585 511.010 1521.250  807.378 712.051  540.379 248.1830  966.646
## ORI_14607_14586 558.960 1081.030  707.935 626.476  481.735 219.8150  970.908
## ORI_14609_14587 402.127 1595.290  803.256 609.475  844.153 291.2120 1048.440
## ORI_14617_14591 392.968 1479.010  753.385 553.550  688.930 176.9490  568.745
## ORI_14623_14594 226.422 1188.200  631.431 526.065  547.443 329.3150  875.188
## ORI_14629_14597 669.269 1085.060  947.000 605.891  537.646 316.2020  876.390
## ORI_14631_14598 386.182 1495.550  824.668 538.739  875.067 276.5820 1175.490
## ORI_14633_14599 285.962 1561.060  837.598 550.009  846.722 260.7460 1222.610
## ORI_14635_14600 405.449 1471.860  879.391 647.493  779.967 306.6400 1257.240
## ORI_14639_14602 477.290 1327.560  778.379 585.732  748.715 278.7800 1278.660
##                 [,7846]  [,7847] [,7848]  [,7849]  [,7850]  [,7851]  [,7852]
## ORI_10219_10218 482.472  506.373 446.496  846.857  287.893  507.438  321.367
## ORI_10735_10730 386.670  790.996 734.350  939.487  482.218  748.882  666.299
## ORI_14605_14585 567.137  666.904 568.754  640.374  687.521  611.890  457.388
## ORI_14607_14586 624.693  363.595 489.545  841.841  377.454  836.961  563.560
## ORI_14609_14587 652.288  482.918 586.191  655.997  651.186  771.220  573.338
## ORI_14617_14591 381.736  263.945 630.875  972.733  473.188  412.179  313.642
## ORI_14623_14594 666.169  613.219 583.362  650.640  430.030  542.174  346.106
## ORI_14629_14597 647.375  452.763 508.339  645.588  817.918  688.963  306.427
## ORI_14631_14598 719.890  701.072 580.099  883.235  802.771  799.696  791.841
## ORI_14633_14599 493.798  490.798 568.749  860.169  844.231  965.625  515.820
## ORI_14635_14600 360.793  614.081 589.425  724.164  643.809  608.889  431.246
## ORI_14639_14602 355.715  635.851 636.883  518.505  350.401  813.197  423.337
##                 [,7853]  [,7854] [,7855]  [,7856]  [,7857]  [,7858] [,7859]
## ORI_10219_10218 402.907 1008.750 3277.97 3338.360 1920.770 2124.750 2368.99
## ORI_10735_10730 631.711 1087.200 1560.63  779.044  977.145 2097.500 2951.02
## ORI_14605_14585 290.430 1011.670 2163.75 3513.810  623.004 2411.140 1598.11
## ORI_14607_14586 602.164  801.487 2648.92 3041.770 1563.670 1331.520 1814.51
## ORI_14609_14587 557.120 1194.880 2503.51 2926.690  946.829 1955.980 1707.84
## ORI_14617_14591 344.395 1321.480 2975.28 2988.000 2808.370 2332.850 2174.94
## ORI_14623_14594 429.236  998.839 2707.80 3606.590 1224.680 1974.120 1631.32
## ORI_14629_14597 329.871  879.999 1872.37 5063.780  538.049 1349.280 1011.24
## ORI_14631_14598 546.820  851.886 2693.43 3774.870  884.197 1911.790 1314.51
## ORI_14633_14599 512.046  782.625 2503.11 2863.800  832.034 2165.700 1532.53
## ORI_14635_14600 687.983 1033.450 2523.36 2652.140  937.825 2890.390 1453.42
## ORI_14639_14602 597.363  901.346 2484.79 4543.580  901.793 2101.680 1485.46
##                  [,7860]  [,7861]  [,7862]  [,7863] [,7864] [,7865] [,7866]
## ORI_10219_10218 1174.860  823.094 289.5270  485.671 166.394 255.024 455.355
## ORI_10735_10730  780.672 2758.260 245.6520  824.436 415.468 345.510 536.909
```

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## ORI_14605_14585  788.482 1569.770 193.8330  720.826 191.881 199.738 422.357
## ORI_14607_14586 1305.420 3612.260 163.7830  721.638 314.957 207.131 345.530
## ORI_14609_14587 1414.690 2184.240 223.4430  752.555 507.574 324.063 436.279
## ORI_14617_14591  777.255  247.206 202.8420  668.709 133.307 264.516 433.792
## ORI_14623_14594 1100.570  381.077 145.0890  363.075 222.639 238.117 475.399
## ORI_14629_14597 1192.820  581.806 256.8900  649.580 297.640 153.079 464.589
## ORI_14631_14598 1101.770 2629.440 124.2850  647.907 257.999 286.634 450.680
## ORI_14633_14599  881.389 1267.020 208.1180  670.923 340.202 225.280 548.518
## ORI_14635_14600  650.450  601.830  86.9522  336.408 253.925 312.514 468.073
## ORI_14639_14602  614.025  313.421 178.3720  532.752 242.549 261.687 584.237
##                 [,7867]  [,7868] [,7869] [,7870] [,7871]  [,7872] [,7873]
## ORI_10219_10218 138.503 196.3080 227.938 216.531 220.109 188.5150 190.639
## ORI_10735_10730 545.550 401.7130 369.904 343.400 355.924 286.3500 309.800
## ORI_14605_14585 521.365 380.2950 270.834 152.780 324.527 191.2320 232.654
## ORI_14607_14586 457.787 577.1060 222.049 118.659 231.091 339.1650 211.091
## ORI_14609_14587 727.939 352.3170 396.489 365.613 407.289 365.2000 381.832
## ORI_14617_14591 193.645 134.9730 276.256 180.300 305.125 149.6470 159.025
## ORI_14623_14594 307.537 161.1590 213.967 128.526 380.353  83.8683 173.341
## ORI_14629_14597 658.210 312.5120 359.465 182.853 307.472 285.3670 425.848
## ORI_14631_14598 597.981 407.4880 322.239 264.486 298.742 278.6470 284.127
## ORI_14633_14599 501.711 151.0360 373.929 179.615 356.262 122.2050 219.309
## ORI_14635_14600 495.080 138.7830 313.241 183.520 454.171  88.4659 288.186
## ORI_14639_14602 449.275 189.4720 370.421 209.218 236.658 165.8360 256.012
##                  [,7874] [,7875] [,7876] [,7877] [,7878] [,7879] [,7880]
## ORI_10219_10218 168.6320 292.379 328.784 353.684 186.053 332.722 317.111
## ORI_10735_10730 406.9610 335.608 302.812 294.431 292.000 684.212 471.052
## ORI_14605_14585 211.3930 306.314 383.574 391.358 218.164 338.647 457.178
## ORI_14607_14586 205.3380 424.926 401.572 210.797 256.181 319.753 496.080
## ORI_14609_14587 394.2400 385.181 304.494 330.555 213.289 525.651 390.996
## ORI_14617_14591 238.6890 409.547 319.016 271.807 185.480 280.110 434.388
## ORI_14623_14594 229.5850 252.390 473.006 198.156 217.329 229.439 386.197
## ORI_14629_14597 382.5860 246.214 382.574 241.287 287.764 554.910 464.171
## ORI_14631_14598 388.8600 341.669 321.235 220.621 334.234 504.132 405.020
## ORI_14633_14599 258.7340 330.881 432.119 225.808 176.101 555.114 329.411
## ORI_14635_14600 242.5980 414.551 455.663 229.066 187.903 328.242 441.516
## ORI_14639_14602 322.0510 485.512 320.787 218.425 168.273 339.214 445.196
##                  [,7881]  [,7882] [,7883] [,7884] [,7885]  [,7886]   [,7887]
## ORI_10219_10218  473.873  94.9316 277.484 682.709 470.552 208.8580 1865.9400
## ORI_10735_10730  557.696 214.0130 492.913 327.173 332.765 250.9450 1841.0500
## ORI_14605_14585  605.630 113.2640 342.515 485.540 471.057 201.0210 1777.2600
## ORI_14607_14586  941.286  64.2575 173.351 228.087 448.666 109.1590 4092.6000
## ORI_14609_14587  677.300 181.2500 432.879 374.996 698.121 262.2350 4199.7600
## ORI_14617_14591  463.886  77.9732 276.561 370.354 501.118 129.9400  973.6750
## ORI_14623_14594  436.735 120.2550 324.656 207.639 358.522 166.0520 1022.7500
## ORI_14629_14597  451.141 108.1750 479.013 191.521 748.604 109.1960  398.2810
## ORI_14631_14598  659.205 156.4980 332.988 145.566 679.820 201.2190 2175.5600
## ORI_14633_14599  604.716 179.2880 434.652 331.690 322.160  88.7196  795.0090
## ORI_14635_14600  611.597 133.9420 384.961 291.975 381.737 211.8010  988.1680
## ORI_14639_14602  463.008 179.3530 227.027 205.701 214.660 239.4180  911.0050
##                  [,7888]  [,7889]  [,7890] [,7891] [,7892]  [,7893] [,7894]
## ORI_10219_10218  814.734 1033.330 256.1090 392.893 414.526 256.7030 493.827
## ORI_10735_10730 1501.020 2487.020 355.2730 299.347 284.685 262.3310 455.860
## ORI_14605_14585  770.517 1472.250 128.8020 339.112 672.338 241.2780 480.367
## ORI_14607_14586 1629.440 2395.790 217.6460 328.397 267.811 344.2490 350.840
```

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## ORI_14609_14587 1795.970 3488.150 129.0350 241.673 459.502 384.8800 422.758
## ORI_14617_14591  542.391 1265.930 308.3590 200.731 281.018 292.7200 324.179
## ORI_14623_14594  664.499 1146.420 147.6570 415.749 294.388 252.8870 369.829
## ORI_14629_14597  700.936 1627.370  30.5642 356.332 255.962 277.3090 482.960
## ORI_14631_14598 1217.030 2300.700 383.5090 290.482 317.362 399.3690 344.095
## ORI_14633_14599  934.661 2212.320  59.1830 366.353 278.598 360.1850 560.360
## ORI_14635_14600  533.173 2375.970 107.9900 297.687 460.566 196.0320 435.706
## ORI_14639_14602  587.050 1325.090 122.7830 255.189 306.962 185.3760 417.044
##                 [,7895]  [,7896] [,7897]   [,7898]  [,7899]  [,7900] [,7901]
## ORI_10219_10218 626.354  434.726 473.467  456.4460  623.425 2248.750 153.663
## ORI_10735_10730 337.107  382.580 532.850 1718.2700  931.990 1080.640 240.060
## ORI_14605_14585 351.079  509.592 488.949 1456.2400  772.061 1873.750 227.372
## ORI_14607_14586 323.208  399.278 390.431 1814.5500  917.488 1669.630 155.555
## ORI_14609_14587 409.910  675.381 668.413 1392.6000 1169.060 1647.310 277.613
## ORI_14617_14591 472.697  672.065 686.583  916.0520 1003.360 2208.840 130.091
## ORI_14623_14594 415.653  434.954 519.541  915.4400  812.583 2079.490 297.237
## ORI_14629_14597 406.293  330.111 385.077 3221.1400 1085.770 1319.400 245.906
## ORI_14631_14598 390.606  508.883 597.587  586.8250 1175.500  617.217 204.919
## ORI_14633_14599 353.828  604.571 560.139  974.3830  909.863 1861.980 258.509
## ORI_14635_14600 442.932  433.043 594.847 1219.5200  777.972 2067.610 261.215
## ORI_14639_14602 279.126  151.186 462.723 1712.2700  513.149 1130.190 247.289
##                 [,7902]  [,7903]  [,7904]  [,7905]  [,7906] [,7907]  [,7908]
## ORI_10219_10218 217.077 290.3240  688.231  538.522  971.243 406.078  591.249
## ORI_10735_10730 132.610  24.6827  744.477  759.171  726.341 212.282  976.707
## ORI_14605_14585 197.260  81.6766  936.698  716.172  732.538 487.785  832.805
## ORI_14607_14586 218.827 155.5330  514.851  460.661  930.758 415.618  476.800
## ORI_14609_14587 251.915 183.0780  927.203  908.571 1215.670 559.299  960.242
## ORI_14617_14591 218.964  66.3163  833.737  671.120  947.264 422.379  483.597
## ORI_14623_14594 220.779  87.0524 1208.840  580.366  894.892 590.722  648.533
## ORI_14629_14597 192.112  24.6827  547.647  372.104 1401.860 609.577  555.037
## ORI_14631_14598 218.672 167.8030  829.724  729.802 1251.940 500.520  784.732
## ORI_14633_14599 258.629 199.8460  838.134  767.240  692.672 331.281  735.985
## ORI_14635_14600 338.348  24.6827 1449.900  835.478  468.273 516.094  689.056
## ORI_14639_14602 115.618  24.6827  609.039 1316.310  552.992 413.155 1199.160
##                 [,7909]  [,7910] [,7911] [,7912]  [,7913] [,7914] [,7915]
## ORI_10219_10218 223.819 197.2850 334.940 427.228 219.4280 326.272 583.272
## ORI_10735_10730 321.349 216.1460 215.838 391.873 267.1770 243.385 471.263
## ORI_14605_14585 280.717 136.2340 300.166 470.208 223.1930 341.109 590.544
## ORI_14607_14586 391.029 165.9110 180.985 249.006 229.3220 328.915 635.107
## ORI_14609_14587 306.270 241.4210 186.921 412.717 237.9430 299.483 713.650
## ORI_14617_14591 266.934 216.0210 236.102 328.524 178.4890 179.654 637.694
## ORI_14623_14594 304.222 179.3960 401.359 373.117 259.4910 272.426 487.946
## ORI_14629_14597 244.339  47.3395 213.614 255.144 196.2620 444.725 574.846
## ORI_14631_14598 267.645 152.1080 235.573 388.299 273.7490 338.412 764.609
## ORI_14633_14599 299.596 107.6470 266.318 308.946 281.6580 373.712 667.119
## ORI_14635_14600 415.913 256.4890 298.901 399.705 282.4640 355.273 824.891
## ORI_14639_14602 376.539 177.9820 213.549 409.038 306.8320 303.123 654.447
##                  [,7916]  [,7917] [,7918]  [,7919]  [,7920] [,7921] [,7922]
## ORI_10219_10218 159.4450  443.368 284.150 148.0070  637.514 168.148 2147.23
## ORI_10735_10730  38.9913 1138.880 244.301 296.6310  567.953 177.977 1924.10
## ORI_14605_14585  50.4121  807.861 299.759 207.1700  555.556 208.572 2439.79
## ORI_14607_14586  78.7884  955.852 226.899 109.2460  453.121 157.781 1883.51
## ORI_14609_14587 148.1140 1145.250 271.475 367.3530  493.905 144.576 2646.65
## ORI_14617_14591 176.4530  762.505 389.025 104.8750  517.461 163.123 2948.91
```

```
## ORI_14623_14594  64.2469  724.522 566.563 141.6510  460.280 208.665 2212.67
## ORI_14629_14597  25.5909  915.826 262.273  86.0772  476.084 209.903 1933.39
## ORI_14631_14598  50.4171 1144.300 321.671 185.6730  443.030 139.253 2273.55
## ORI_14633_14599  43.1328  880.957 472.574 116.5260  575.774 243.328 1891.84
## ORI_14635_14600  62.3915 1142.420 553.649 206.8280  509.800 266.244 2561.57
## ORI_14639_14602  26.0903  982.265 500.858 120.2800  319.698 278.924 2187.62
##                  [,7923]  [,7924]  [,7925]  [,7926]  [,7927]  [,7928]  [,7929]
## ORI_10219_10218  82.0289 150.3870  494.484 152.6310 135.3930 1123.620 202.2880
## ORI_10735_10730 191.7870 270.7660  828.476 323.6600 349.4000  595.570 123.1620
## ORI_14605_14585  88.3402 177.9640  530.603 189.3550 215.5610  806.575 107.7480
## ORI_14607_14586 153.3630 190.8010  444.362 136.3710 120.9070  682.964 128.6450
## ORI_14609_14587 297.2240 146.6570  632.418 420.5380 241.3700  907.585 130.0220
## ORI_14617_14591  24.6827 182.4350  515.601 127.6590 154.7020 1592.210 211.6310
## ORI_14623_14594  58.0637 222.3550  709.120 192.9130 207.5810  830.890 226.0990
## ORI_14629_14597 201.9110 341.8150  269.866 134.8310 160.2770  543.166 103.9350
## ORI_14631_14598 291.4150 195.2270  492.731 289.4970 304.8650  472.956  78.4919
## ORI_14633_14599  58.2512 224.6940 1058.930 140.5720 181.5020 1023.030 174.4930
## ORI_14635_14600 113.8240 211.8620  719.954 185.1120 255.7110 1067.820 246.6300
## ORI_14639_14602 170.3340 362.2910  802.417  63.9109 105.7950  712.427 164.8960
##                 [,7930] [,7931]  [,7932] [,7933] [,7934] [,7935] [,7936]
## ORI_10219_10218 169.592 229.118 191.5030 314.848 379.145 321.526 323.988
## ORI_10735_10730 235.828 404.190 219.9760 396.260 667.508 414.248 325.301
## ORI_14605_14585 259.096 277.485 184.4280 521.066 521.549 319.463 216.475
## ORI_14607_14586 452.737 352.664 120.3350 678.799 390.255 290.056 237.916
## ORI_14609_14587 359.383 359.948 272.0790 594.190 625.532 360.034 432.509
## ORI_14617_14591 140.282 223.505 125.3800 392.735 624.756 244.193 207.164
## ORI_14623_14594 157.012 229.501 180.1420 447.166 552.280 338.317 262.341
## ORI_14629_14597 223.077 250.092 235.6830 718.772 471.259 453.917 230.443
## ORI_14631_14598 338.519 499.020 292.5590 356.178 569.226 450.172 318.320
## ORI_14633_14599 226.948 406.022 231.4360 555.817 523.589 338.416 187.371
## ORI_14635_14600 163.429 595.527 416.3430 447.287 463.186 440.278 242.971
## ORI_14639_14602 137.151 334.475 215.9570 497.445 245.645 378.493 197.491
##                 [,7937] [,7938]  [,7939]  [,7940] [,7941] [,7942]  [,7943]
## ORI_10219_10218 224.378 416.332 215.2620 178.7450 322.878 185.026  930.580
## ORI_10735_10730 461.755 484.859 220.4680 515.3440 663.367 450.892 1685.840
## ORI_14605_14585 277.005 593.335 198.6000 344.1300 555.979 215.093 2428.170
## ORI_14607_14586 303.681 247.836 253.6700 314.2620 305.801 201.541 1596.870
## ORI_14609_14587 360.369 576.184 273.4600 373.1880 475.245 224.353 2883.720
## ORI_14617_14591 348.415 316.923 192.4650 241.3810 488.613 207.815 2070.850
## ORI_14623_14594 251.430 429.638 287.7870 364.5260 433.727 202.956 2504.040
## ORI_14629_14597 253.393 361.414 202.5130 260.4830 373.443 320.446 3220.520
## ORI_14631_14598 397.704 604.264 188.8210 225.1380 417.565 255.890 2636.030
## ORI_14633_14599 654.009 493.445 366.2150 268.9180 543.211 239.479 3478.320
## ORI_14635_14600 386.420 482.796 284.0200 506.3980 431.370 276.791 3103.780
## ORI_14639_14602 457.786 342.870 199.1710 159.9300 627.605 342.406 1043.810
##                 [,7944]  [,7945] [,7946] [,7947] [,7948] [,7949]  [,7950]
## ORI_10219_10218 672.199  801.831 611.151 313.271 441.902 239.852  323.743
## ORI_10735_10730 462.010  666.998 575.603 322.615 329.495 400.477  565.984
## ORI_14605_14585 523.844 1128.090 555.808 268.406 434.490 387.803  627.431
## ORI_14607_14586 561.846  862.261 502.783 286.320 396.966 291.608  892.162
## ORI_14609_14587 534.500 1292.600 570.476 249.288 410.009 742.689  630.870
## ORI_14617_14591 643.581 1036.550 673.510 236.979 452.390 447.998  545.668
## ORI_14623_14594 359.871 1071.600 519.195 199.966 534.137 338.397  510.368
## ORI_14629_14597 505.970  566.115 427.589 191.381 599.498 215.423  783.768
```

```
## ORI_14631_14598 494.119  907.250 560.119 180.211 559.550 417.599  603.800
## ORI_14633_14599 605.154  926.407 501.650 314.835 353.639 517.762  684.339
## ORI_14635_14600 367.025  952.016 755.544 258.376 397.368 415.500  588.285
## ORI_14639_14602 512.771  548.426 601.533 190.560 527.628 620.129  860.979
##                 [,7951]  [,7952] [,7953] [,7954]  [,7955]  [,7956] [,7957]
## ORI_10219_10218 282.061 130.5150 280.636 208.441  337.846  741.698 238.560
## ORI_10735_10730 306.473 339.8580 655.729 372.323  223.522  634.230 317.508
## ORI_14605_14585 374.350 207.9210 445.166 345.663  360.653  710.060 306.903
## ORI_14607_14586 288.256  99.4677 474.071 427.939  454.314  690.530 229.135
## ORI_14609_14587 340.626 275.0560 873.903 438.106  733.059  581.036 311.130
## ORI_14617_14591 352.818 116.8310 517.992 262.847  332.010  641.299 404.371
## ORI_14623_14594 420.374 163.1900 431.606 251.772  376.256  844.540 296.741
## ORI_14629_14597 320.609 117.8810 883.916 218.344  267.077  798.932 208.575
## ORI_14631_14598 318.004 170.1280 688.552 333.301  380.313  700.528 257.503
## ORI_14633_14599 505.347 134.6010 414.332 348.536  222.815  761.932 208.750
## ORI_14635_14600 348.055 253.8760 465.453 457.038  453.765  988.276 205.875
## ORI_14639_14602 519.866 105.5960 417.483 373.369  253.619  718.705 306.910
##                 [,7958] [,7959]   [,7960]  [,7961]  [,7962] [,7963] [,7964]
## ORI_10219_10218 413.190 645.899 1030.2800  210.551  297.825 616.373 527.770
## ORI_10735_10730 493.472 398.850  243.2930  413.568  832.061 644.273 845.689
## ORI_14605_14585 757.571 544.959  374.0930  416.523  452.561 551.301 447.552
## ORI_14607_14586 383.023 752.703  425.8220  308.368  560.838 623.584 473.119
## ORI_14609_14587 643.993 874.407  243.5020  312.805 1151.890 736.300 849.618
## ORI_14617_14591 457.662 796.652  960.0040  280.657  467.542 736.830 437.700
## ORI_14623_14594 380.065 915.392  429.4940  697.674  427.566 502.393 403.123
## ORI_14629_14597 568.239 633.643  281.2000  484.697  745.297 483.463 685.747
## ORI_14631_14598 528.951 712.538  157.5780  358.690  761.579 700.913 534.488
## ORI_14633_14599 619.611 627.832  266.2170  419.616  141.031 534.394 651.050
## ORI_14635_14600 756.440 350.639  421.5900 1081.130  337.485 592.343 479.369
## ORI_14639_14602 733.080 430.093  196.2960  440.205  379.257 350.552 504.257
##                  [,7965]   [,7966]  [,7967] [,7968]  [,7969]  [,7970] [,7971]
## ORI_10219_10218 218.8070  320.1560  43.8660 260.034 212.7500  99.1638 354.915
## ORI_10735_10730 219.7900  227.3250 203.7890 469.006 210.5740 262.5610 335.145
## ORI_14605_14585 224.4340  466.6350 119.1180 347.911 312.5650 194.2640 504.572
## ORI_14607_14586 161.2210  512.4120  67.7790 228.168 245.0950 182.0630 391.809
## ORI_14609_14587 252.9620  394.9120 227.8610 432.077 359.2490 385.2310 687.836
## ORI_14617_14591 281.6700  626.8090  58.2496 362.285 247.9660 150.6180 444.824
## ORI_14623_14594 208.9730  751.6820 123.1050 521.557 271.2170 175.0410 658.957
## ORI_14629_14597 102.7590   91.8544  81.4907 224.736 269.9140  94.3147 616.538
## ORI_14631_14598 249.6820  638.0090 121.9740 302.541 279.3150 297.1330 578.853
## ORI_14633_14599 163.5090  459.5210 163.3740 540.728 368.8620 102.4680 512.607
## ORI_14635_14600 220.5070  624.7800 205.8760 585.842 304.2930 197.3010 702.442
## ORI_14639_14602 110.4140  296.3300 157.2320 599.171 297.6130 110.0420 577.700
##                 [,7972]  [,7973]  [,7974]  [,7975]  [,7976]  [,7977]  [,7978]
## ORI_10219_10218 671.380  548.794 364.1750  638.888 143.3340 163.5680  578.720
## ORI_10735_10730 449.087  884.335 323.9010  651.289 179.0240 255.7150 1541.220
## ORI_14605_14585 431.489  700.255 439.8720  604.568 144.4370 238.9950 1445.560
## ORI_14607_14586 374.816  594.125 291.0910  546.192 145.4830 192.0540  676.311
## ORI_14609_14587 302.697  702.820 505.9480  577.962 229.3750 261.2010 1079.040
## ORI_14617_14591 352.189  565.339 302.6770  578.195 152.4290 226.7750  989.110
## ORI_14623_14594 515.602  723.189 381.9900  696.839 174.0270 170.5610  946.466
## ORI_14629_14597 413.984  922.067 442.5490  600.833 143.7020 326.5310  808.523
## ORI_14631_14598 398.204  797.587 505.0000  592.867 133.3350 184.2450  961.117
## ORI_14633_14599 484.515  934.722 431.9160  824.031 268.0310 212.8680  860.623
```

```
## ORI_14635_14600 485.252  806.093 532.3670  934.626 209.0180 284.7280  865.128
## ORI_14639_14602 524.397  668.762 337.0220  717.050 184.2940 185.7680 1048.710
##                  [,7979] [,7980]  [,7981] [,7982] [,7983]  [,7984] [,7985]
## ORI_10219_10218 509.6540 234.511 155.5060 362.761 612.827 1316.390 346.003
## ORI_10735_10730  90.8064 368.732 179.0030 302.246 790.274  888.068 322.450
## ORI_14605_14585 521.9510 366.865 142.2290 323.983 459.746 1472.870 464.565
## ORI_14607_14586 127.4170 347.199 134.0350 260.811 457.142 1346.210 379.883
## ORI_14609_14587 200.1520 481.198 320.2080 331.650 544.257 1291.100 468.626
## ORI_14617_14591 199.9550 381.284 147.1760 267.704 440.809 1267.100 328.262
## ORI_14623_14594 133.3210 491.746 181.4320 296.594 460.062 1494.660 350.172
## ORI_14629_14597 105.0250 292.335 138.8770 411.562 316.087 1652.720 357.257
## ORI_14631_14598  62.7814 443.436 218.3460 294.128 472.983 1278.210 438.008
## ORI_14633_14599  75.2388 280.003 149.6610 361.147 381.032 1372.280 407.292
## ORI_14635_14600 161.1710 472.299 264.7860 376.644 392.827 1301.020 416.786
## ORI_14639_14602 119.4530 311.720 201.2450 372.515 180.417 1193.430 262.850
##                  [,7986]  [,7987]  [,7988]  [,7989]  [,7990]  [,7991]  [,7992]
## ORI_10219_10218 184.4460  54.9699 177.1240  571.824 2236.020 204.2700  441.922
## ORI_10735_10730 309.3400 194.1220 345.5720  685.903 1866.460 406.6920  643.515
## ORI_14605_14585 194.5490  68.9209 230.3670  639.239 2968.490 267.5950  554.746
## ORI_14607_14586 206.7960  35.3724 123.5250  494.897 2667.680 117.8430  583.834
## ORI_14609_14587 249.8690  82.5560 310.2800  516.311 2664.830 402.8000 1054.580
## ORI_14617_14591 166.7070  38.2216 176.4950  421.355 2438.720 110.1770  971.766
## ORI_14623_14594 157.7790 148.8730 213.2910  494.019 2997.460 214.2760 1014.650
## ORI_14629_14597 218.1390  45.8573 149.1410  654.032 3003.280 138.9210  597.561
## ORI_14631_14598 253.4000  50.5065 218.0780  772.793 2830.060 322.8200  562.334
## ORI_14633_14599 180.5620 252.7730 237.5490  689.874 2560.920 139.5040 1102.670
## ORI_14635_14600 117.3750 258.6500 314.9030  484.156 2368.990 265.2390  907.835
## ORI_14639_14602 151.9220 198.6210 162.8000  812.127 2645.050  67.0205  598.980
##                  [,7993]  [,7994]  [,7995] [,7996]   [,7997]  [,7998]  [,7999]
## ORI_10219_10218 1083.630  598.114  417.805 335.978  110.2530  761.321 1093.710
## ORI_10735_10730 2001.570  794.578  660.870 540.417  691.9680 2089.030 1203.730
## ORI_14605_14585 1483.560  657.349  485.913 392.512  446.7070  836.440 1117.280
## ORI_14607_14586 1619.240  856.102  436.530 416.142  232.2270 1484.090  794.608
## ORI_14609_14587 1998.430 1436.210  495.078 527.342  342.2890 1153.470  517.788
## ORI_14617_14591 1641.310 1530.600  323.525 441.144  222.7710  598.630  525.757
## ORI_14623_14594 1409.880 1881.090  315.460 446.249  291.5000  595.969 1131.930
## ORI_14629_14597 1521.320  400.309  513.619 561.498  452.0910 1140.940  986.439
## ORI_14631_14598 1805.470  577.195  632.156 645.317  384.8770 1100.640  575.065
## ORI_14633_14599 1850.880 1433.320  483.435 448.103  305.2040  676.964 1052.910
## ORI_14635_14600 1661.380 1797.750  491.853 545.106  363.7030  648.482  815.000
## ORI_14639_14602 1506.400  551.085  391.956 637.837  978.6750 1195.130 1003.220
##                  [,8000]
## ORI_10219_10218 205.293
## ORI_10735_10730 419.525
## ORI_14605_14585 242.756
## ORI_14607_14586 232.031
## ORI_14609_14587 382.699
## ORI_14617_14591 371.273
## ORI_14623_14594 267.493
## ORI_14629_14597 242.886
## ORI_14631_14598 366.578
## ORI_14633_14599 265.809
## ORI_14635_14600 369.876
## ORI_14639_14602 168.412
```

```
##  [ reached getOption("max.print") -- omitted 43 rows ]
```

To choose a cut-off value,

we propose to use the Scale-free Topology Criterion (Zhang and Horvath 2005). Here the focus is on the linear regression model fitting index (denoted below by scale.law.R.2) that quantify the extent of how well a network satisfies a scale-free topology. The function PickSoftThreshold can help one to estimate the cut-off value when using hard thresholding with the step adjacency function. The first column (different from the row numbers) lists the soft threshold Power The second column reports the resulting scale free topology fitting index R^2 (scale.law.R.2) The third column reports the slope of the fitting line. The fourth column reports the fitting index for the truncated exponential scale free model# Usually we ignore it. The remaining columns list the mean, median and maximum connectivity. To a soft threshold (power) with the scale free topology criterion: aim for reasonably high scale free R^2 (column 2), higher than say .80 and negative slope (around -1, col 4). In practice, we pick the threshold by looking for a "kink" in the relationship between R^2 and power, see below.

Soft thresholding

Now we investigate soft thesholding with the power adjacency function

```
powers1=c(seq(1,10,by=1),seq(12,20,by=2))
RpowerTable=pickSoftThreshold(datExpr, powerVector=powers1)[[2]]
```

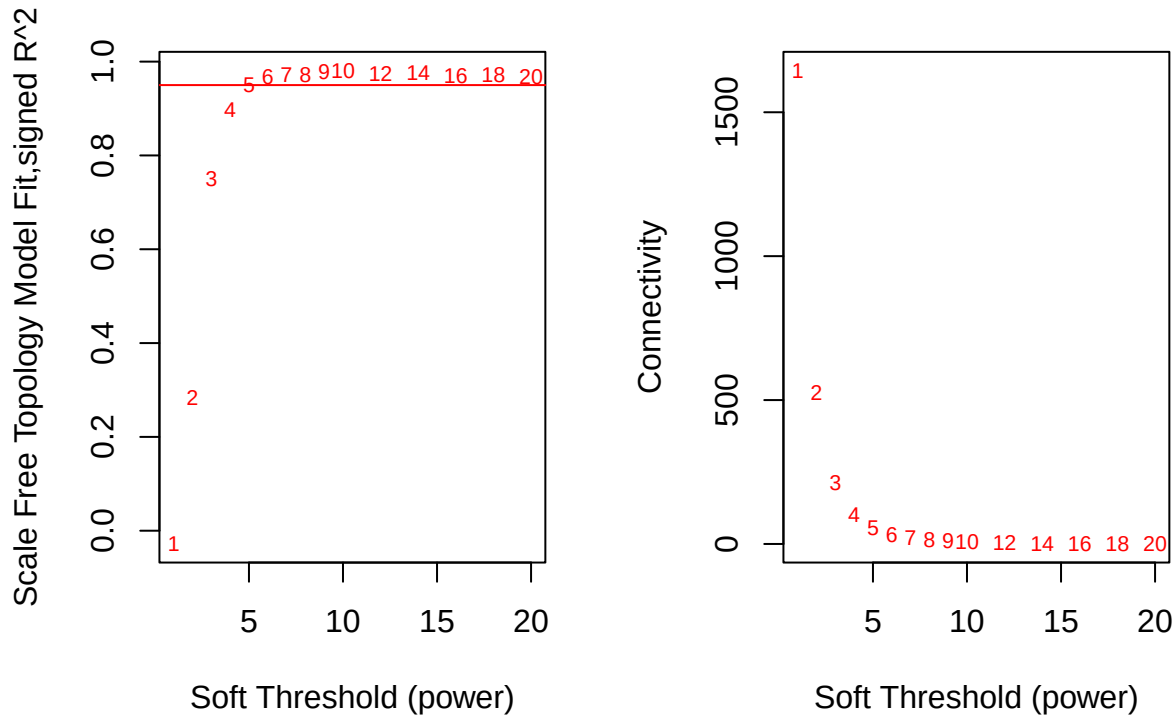
```
##    Power SFT.R.sq  slope truncated.R.sq mean.k. median.k. max.k.
## 1      1   0.0275  0.451          0.979 1640.00  1.60e+03 2700.0
## 2      2   0.2840 -0.851          0.942  527.00  4.79e+02 1310.0
## 3      3   0.7510 -1.420          0.968  214.00  1.74e+02  769.0
## 4      4   0.8980 -1.660          0.975  102.00  7.22e+01  513.0
## 5      5   0.9500 -1.710          0.979   54.90  3.25e+01  373.0
## 6      6   0.9690 -1.660          0.983   32.50  1.58e+01  288.0
## 7      7   0.9720 -1.610          0.980   20.80  8.09e+00  232.0
## 8      8   0.9720 -1.550          0.976   14.10  4.36e+00  193.0
## 9      9   0.9790 -1.500          0.982   10.10  2.43e+00  166.0
## 10    10   0.9810 -1.470          0.984    7.48  1.42e+00  145.0
## 11    12   0.9750 -1.400          0.980    4.52  5.22e-01  114.0
## 12    14   0.9770 -1.360          0.982    2.97  2.08e-01   92.7
## 13    16   0.9700 -1.340          0.971    2.08  8.94e-02   76.9
## 14    18   0.9720 -1.330          0.980    1.52  4.00e-02   65.3
## 15    20   0.9670 -1.320          0.973    1.14  1.87e-02   56.2
```

```
gc()
```

```
##           used  (Mb) gc trigger   (Mb) limit (Mb)  max used   (Mb)
## Ncells 4782307 255.5    8356247  446.3         NA   6226247  332.6
## Vcells 8938634  68.2  173158933 1321.1      65536 336733606 2569.1
```

```
cex1=0.7
par(mfrow=c(1,2))
plot(RpowerTable[,1], -sign(RpowerTable[,3])*RpowerTable[,2],xlab="
Soft Threshold (power)",ylab="Scale Free Topology Model Fit,signed R^2",type="n")
text(RpowerTable[,1], -sign(RpowerTable[,3])*RpowerTable[,2],
labels=powers1,cex=cex1,col="red")
# this line corresponds to using an R^2 cut-off of h
abline(h=0.95,col="red")
plot(RpowerTable[,1], RpowerTable[,5],xlab="Soft Threshold (power)",ylab="Mean
```

```
Connectivity", type="n")
text(RpowerTable[,1], RpowerTable[,5], labels=powers1, cex=cex1,col="red")
```



Note that at power=6, the curve has an elbow or kink, i.e. for this power the scale free topology fit does not improve after increasing the power. This is why we choose beta1=6 Also the scale free topology criterion with a R^2 threshold of 0.95 would lead us to pick a power of 6. Note that there is a natural trade-off between maximizing scale-free topology model fit (R^2) and maintaining a high mean number of connections: parameter values that lead to an R^2 value close to 1 may lead to networks with very few connections. Actually, we consider a signed version of the scale free topology fitting index. Since it is biologically implausible that a networks contains more hub genes than non-hub genes, we multiply R^2 with -1 if the slope of the regression line between log_{10}(p(k)) and log_{10}(k) is positive.

These considerations motivate us to propose the following {scale-free topology criterion} for choosing the parameters of an adjacency function: Only consider those parameter values that lead to a network satisfying scale-free topology at least approximately, e.g. signed R^2>0.80. In addition, we recommend that the user take the following additional considerations into account when choosing the adjacency function parameter. First, the mean connectivity should be high so that the network contains enough information (e.g. for module detection). Second, the slope of the regression line should be around -1. When considering the power adjacency functions, we find the relationship between R^2 and the adjacency function parameter (beta) is characterized by a saturation curve type of. In our applications, we use the first parameter value where saturation is reached as long as it is above 0.8. Below we study how the biological findings depend on the choice of the power.

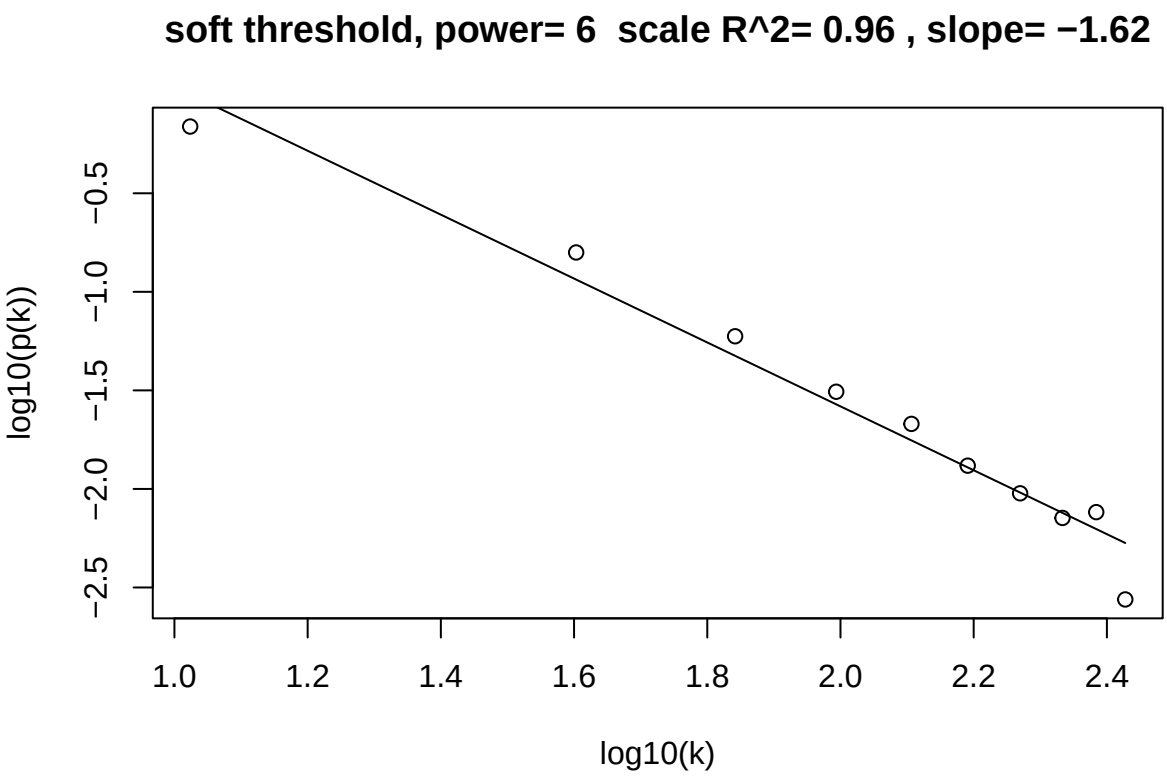
```
beta1=6
Connectivity=softConnectivity(datExpr,power=beta1)-1
```

```
##  softConnectivity: FYI: connecitivty of genes with less than 19 valid samples will be returned as NA
##  ..calculating connectivities..
```

Let's create a scale free topology plot.

The black curve corresponds to scale free topology and the red curve corresponds to truncated scale free topology.

```
par(mfrow=c(1,1))
scaleFreePlot(Connectivity, main=paste("soft threshold, power=",beta1), truncated=F);
```




```
##   scaleFreeRsquared slope
## 1              0.96 -1.62
```

Module Detection

An important step in network analysis is module detetion. Here we use methods that use clustering in combination with the topological overlap matrix. This code allows one to restrict the analysis to the most connected genes, which may speed up calculations when it comes to module detection.

```
ConnectivityCut = 3600 # number of most connected genes that will be considered

# Incidentally, in the paper by Mischel et al (2005) we considered all 3600 #genes.
ConnectivityRank = rank(-Connectivity)
restConnectivity = ConnectivityRank <= ConnectivityCut

# thus our module detection uses the following number of genes
sum(restConnectivity)
```

```
## [1] 3600
```

```
# Now we define the adjacency matrix for the 3600 most connected genes
ADJ= adjacency(datExpr[,restConnectivity],power=beta1)
gc()
```

```
##            used  (Mb) gc trigger   (Mb) limit (Mb)  max used   (Mb)
## Ncells  4796408 256.2    8356247  446.3         NA   6226247  332.6
## Vcells 21949732 167.5  138527147 1056.9      65536 336733606 2569.1
```

```
# The following code computes the topological overlap matrix based on the
# adjacency matrix.
# TIME: This about a few minutes....
dissTOM=TOMdist(ADJ)
```

```
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
```

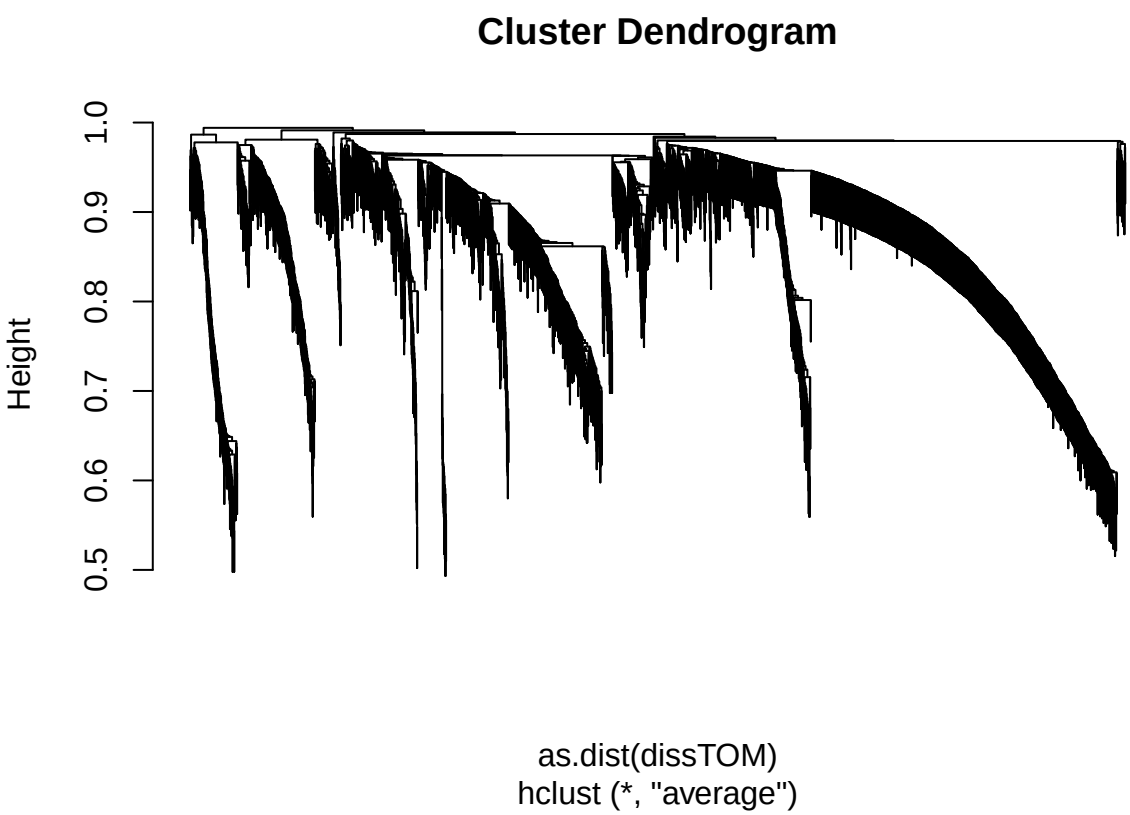
```
gc()
```

```
##            used  (Mb) gc trigger  (Mb) limit (Mb)  max used   (Mb)
## Ncells  4796993 256.2    8356247 446.3         NA   6226247  332.6
## Vcells 34911176 266.4  110821718 845.6      65536 336733606 2569.1
```

Now we carry out hierarchical clustering with the TOM matrix.

This takes a couple of minutes.

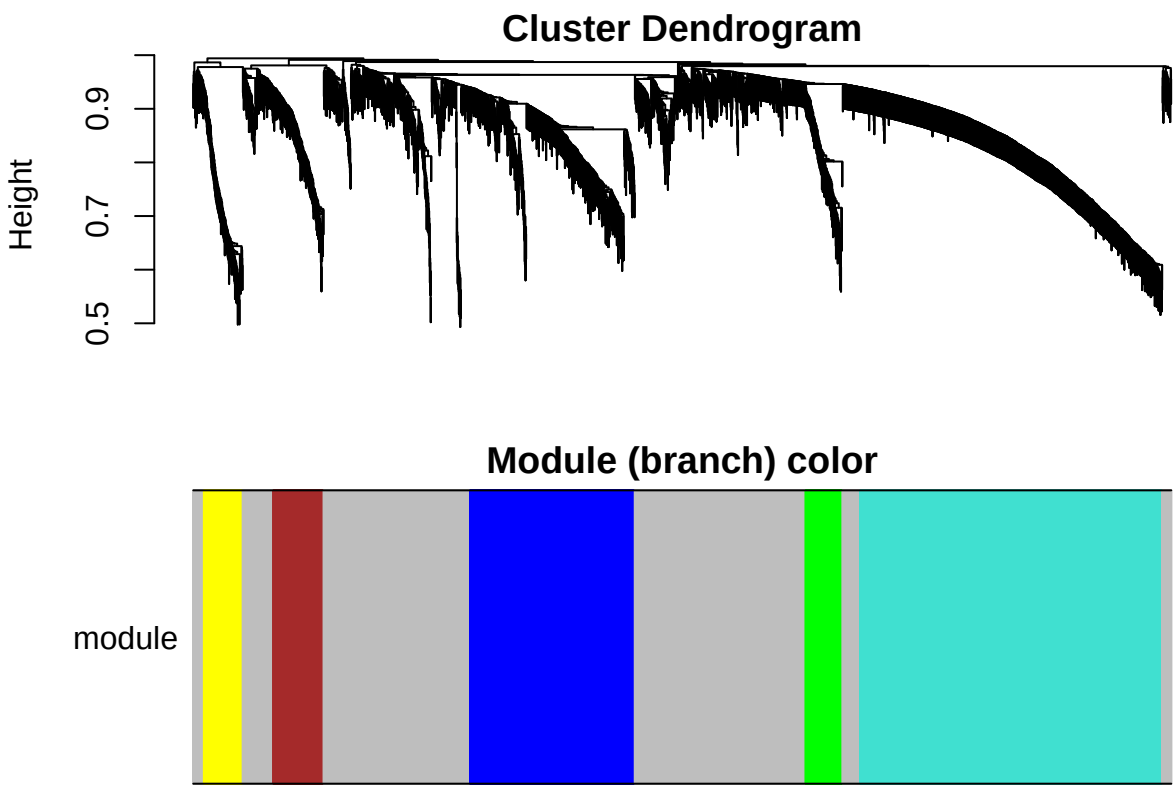
```
hierTOM = hclust(as.dist(dissTOM),method="average");
par(mfrow=c(1,1))
plot(hierTOM,labels=F)
```



According to our definition, modules correspond to branches of the tree. The question is what height cut-off should be used? This depends on the biology. Large heigth values lead to big modules, small values lead to small but tight modules. In reality, the user should use different thresholds to see how robust the findings are.

The function cutreeStatistColor colors each gene by the branches that result from choosing a particular height cut-off. GREY IS RESERVED to color genes that are not part of any module. We only consider modules that contain at least 125 genes.

```
colorh1= cutreeStaticColor(hierTOM,cutHeight = 0.94, minSize = 125)
# The above should be identical to colorh1=datSummary$color1[restConnectivity]
par(mfrow=c(2,1),mar=c(2,4,1,1))
plot(hierTOM, main="Cluster Dendrogram", labels=F, xlab="", sub="");
plotColorUnderTree(hierTOM,colors=data.frame(module=colorh1))
title("Module (branch) color")
```



COMMENTS:

1) The colors are assigned based on module size. Turquoise (others refer to it as cyan) colors the largest module, next comes blue, next brown, etc. Just type table(colorh1) to figure out which color corresponds to what module size.

2) The minimum module size (minsize1=125) is unusually large. As default, we recommend minsize1=50.

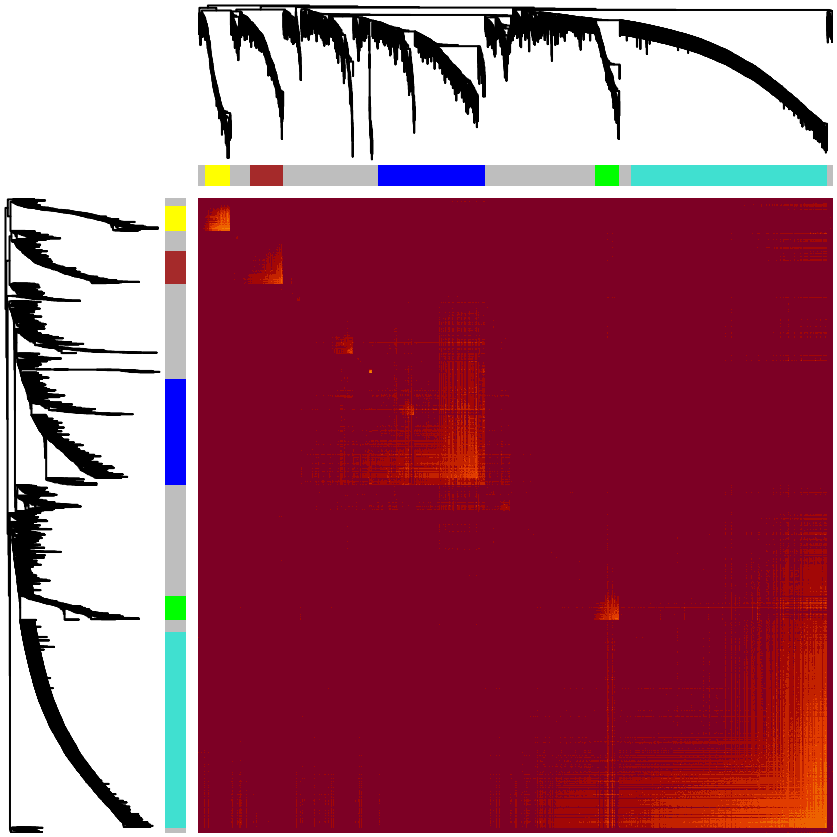
3) Here we choose a fixed height cut-off (h1) for cutting off branches. But we have also developed a more flexible method for cutting off branches that adaptively choose a different height for each branch. The resulting dynamic tree cutting algorithm (cutreeDynamic) is desccribed in Langfelder et al (2008).

An alternative view of this is the so called TOM plot that is generated by the function TOMplot

Inputs: TOM distance measure, hierarchical (hclust) object, color

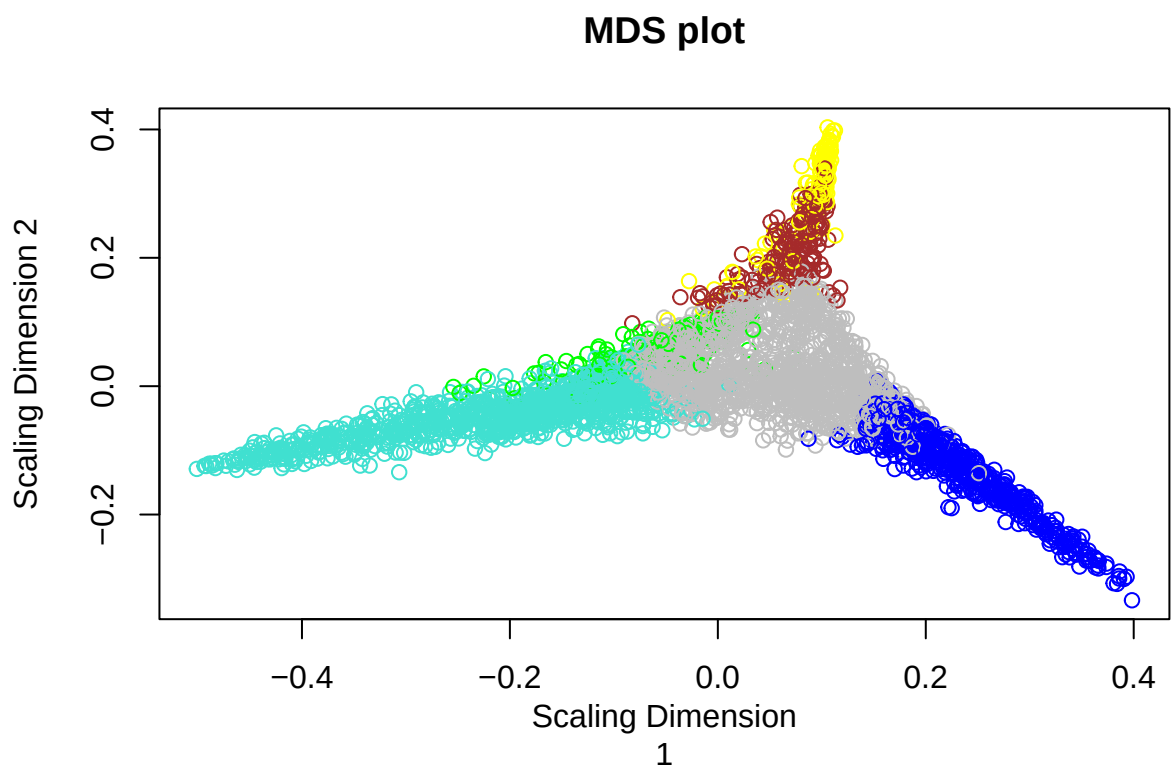
Warning: for large gene sets, say more than 2000 genes this will take a while. I recommend you skip this.

```
TOMplot(dissTOM , hierTOM, colorh1)
```



We also propose to use classical multi-dimensional scaling plots for visualizing the network. Here we chose 2 scaling dimensions. This also takes about 10 minutes...

```
cmd1=cmdscale(as.dist(dissTOM),2)
par(mfrow=c(1,1))
plot(cmd1, col=as.character(colorh1), main="MDS plot",xlab="Scaling Dimension
1",ylab="Scaling Dimension 2")
```



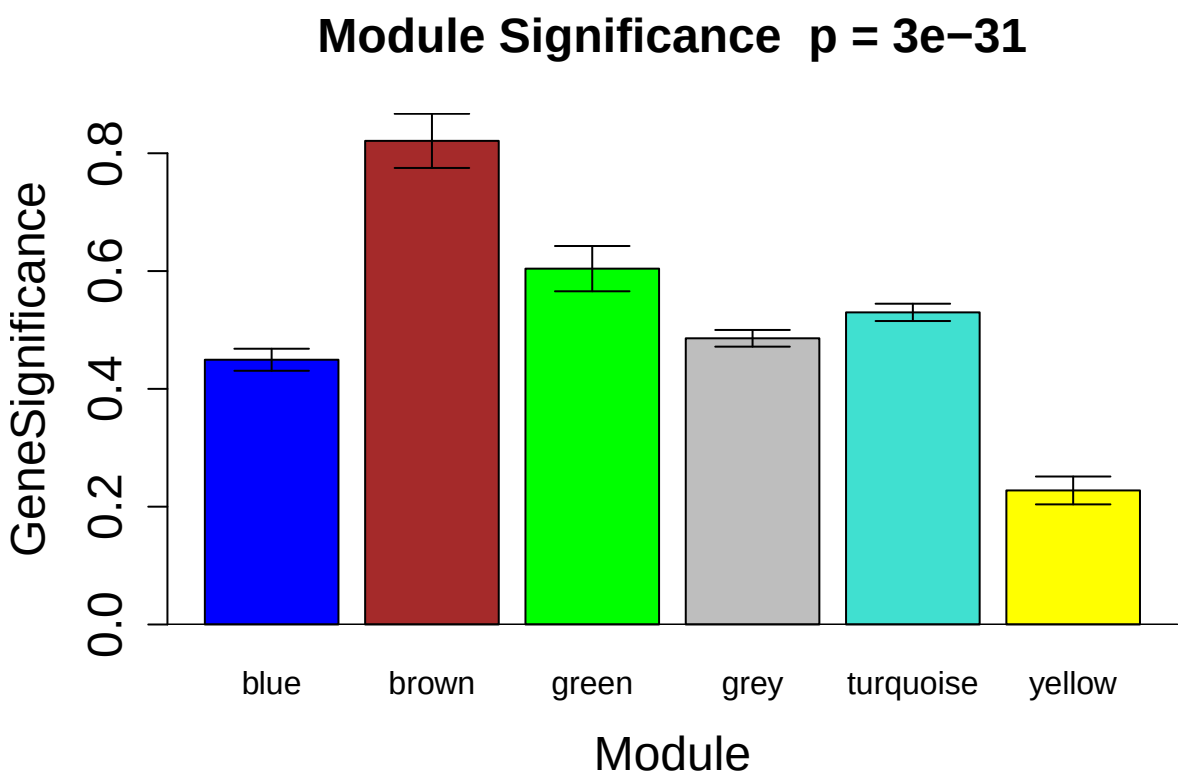
Module significance

Next we define a gene significance variable as minus log10 of the univarite Cox regression pvalue for predicting survival on the basis of the gene epxression info

```
# this defines the gene significance for all genes
GeneSignificanceALL=-log10(datSummary$pCox)
# gene significance restricted to the most connected genes:
GeneSignificance=GeneSignificanceALL[restConnectivity]
```

The function verboseBarplot creates a bar plot that shows whether modules are enriched with essential genes. It also reports a Kruskal Wallis P-value. The gene significance can be a binary variable or a quantitative variable. It also plots the 95% confidence interval of the mean

```
par(mfrow=c(1,1))
verboseBarplot(GeneSignificance,colorh1,main="Module Significance ",
col=levels(factor(colorh1)) ,xlab="Module" )
```



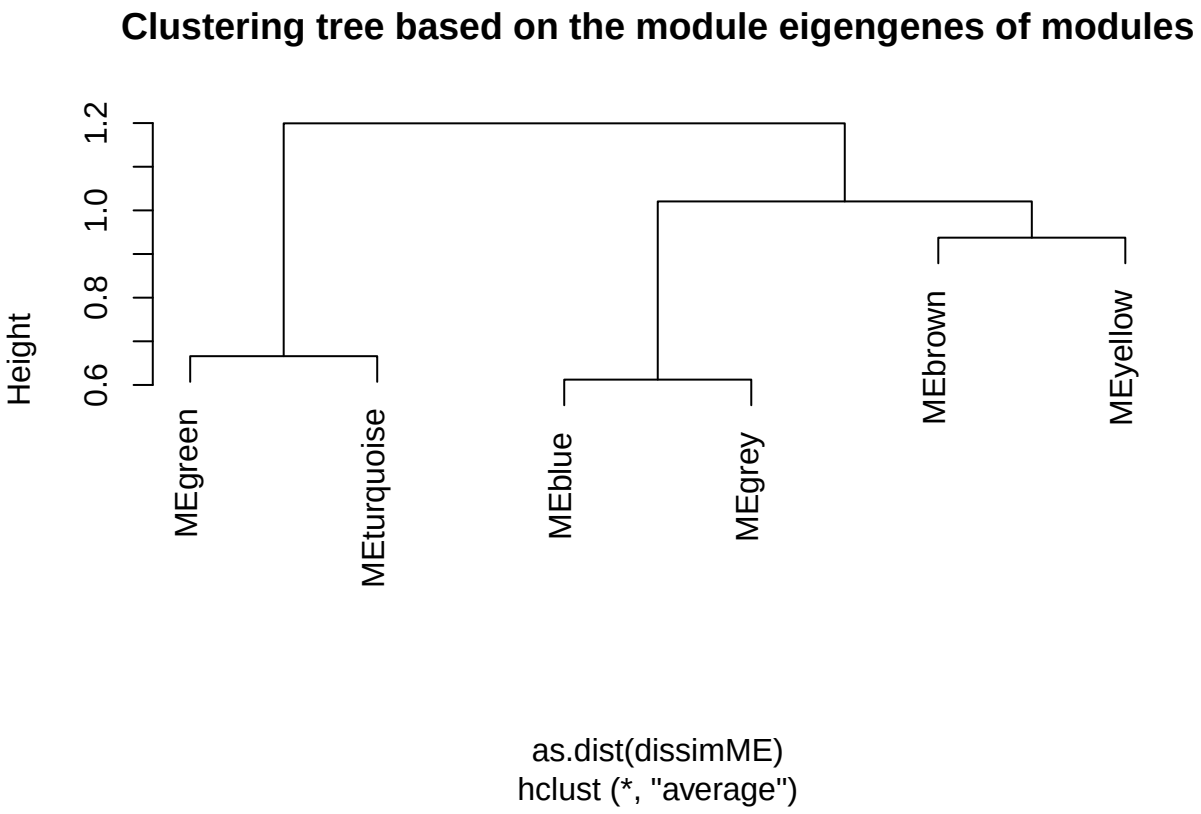
Note that the brown module have a high mean value of gene significance. As aside for the experts, we should mention that the p-value (Kruskal Wallis test) cannot be trusted due to dependence between the genes. The p-value should really be interpreted as a descriptive (not inferential) measure.

To get a sense of how related the modules are one can summarize each module by its first eigengene (referred to as principal components) and then correlate these module eigengenes with each other.

```
datME=moduleEigengenes(datExpr[,restConnectivity],colorh1)[[1]]
```

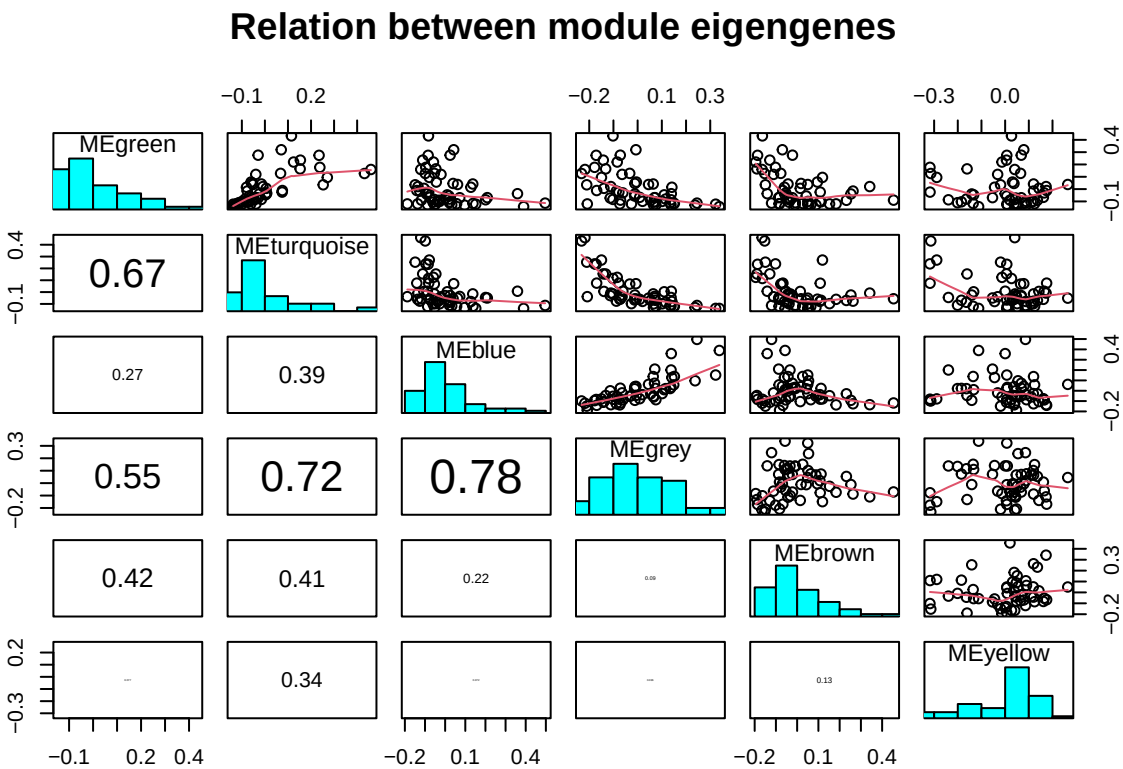
We define a dissimilarity measure between the module eigengenes that keeps track of the sign of the correlation between the module eigengenes.

```
dissimME=1-(t(cor(datME, method="p")))/2
hclustdatME=hclust(as.dist(dissimME), method="average" )
par(mfrow=c(1,1))
plot(hclustdatME, main="Clustering tree based on the module eigengenes of modules")
```



Now we create scatter plots of the samples (arrays) along the module eigengenes.

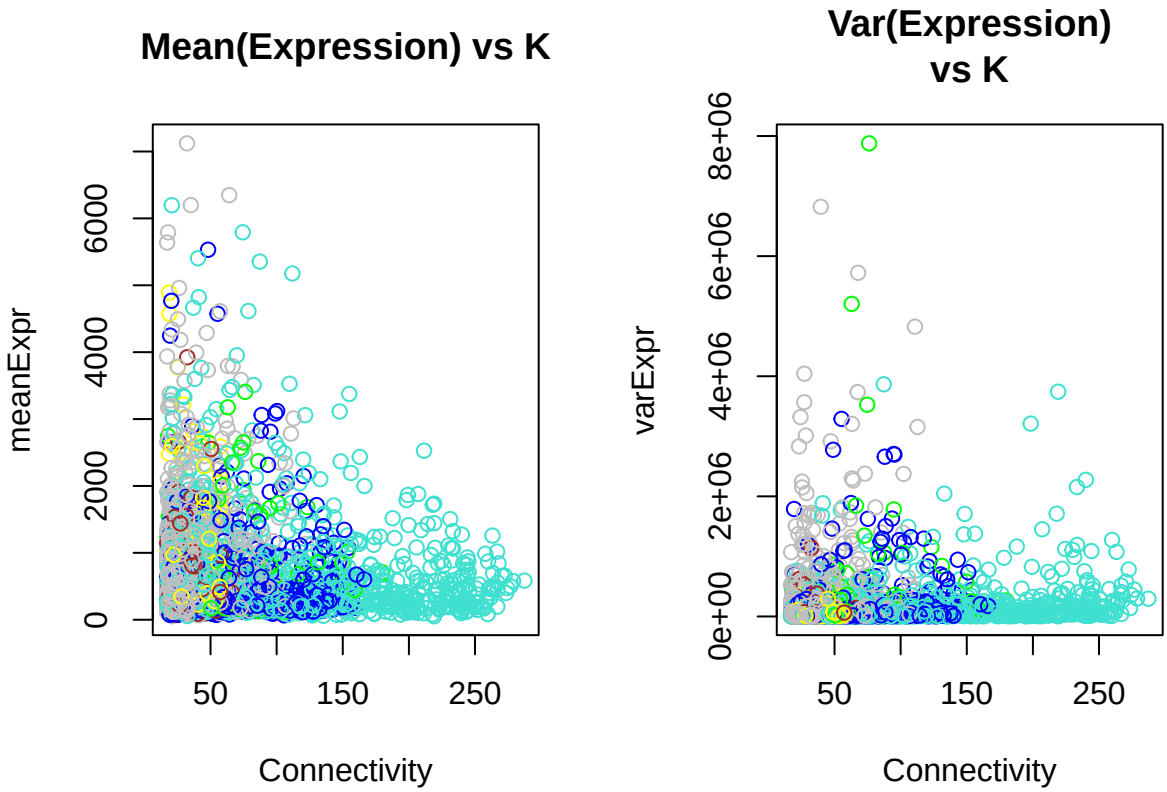
```
datMEordered=datME[,hclustdatME$order]
pairs( datMEordered, upper.panel = panel.smooth, lower.panel = panel.cor,
diag.panel=panel.hist ,main="Relation between module eigengenes")
```



Message: the module eigengenes (first PC) of different modules may be highly correlated. WGCNA can be interpreted as a biologically motivated data reduction scheme that allows for dependency between the resulting components. Compare this to principal component analysis that would impose orthogonality between the components. Since modules may represent biological pathways there is no biological reason why modules should be orthogonal to each other. Aside: If you are interested in networks comprised of module eigengenes, the following article may be of interest: Langfelder P, Horvath S (2007) Eigengene networks for studying the relationships between coexpression modules. BMC Systems Biology 2007, 1:54

To study how connectivity is related to mean gene expression or variance of gene expression we create the following plot.

```
mean1=function(x) mean(x,na.rm=T)
var1=function(x) var(x,na.rm=T)
meanExpr=apply( datExpr[,restConnectivity],2,mean1)
varExpr=apply( datExpr[,restConnectivity],2,var1)
par(mfrow=c(1,2))
plot(Connectivity[restConnectivity],meanExpr, col=as.character(colorh1),
main="Mean(Expression) vs K",xlab="Connectivity")
plot (Connectivity[restConnectivity],varExpr, col= as.character(colorh1), main="Var(Expression)
vs K" ,xlab="Connectivity")
```

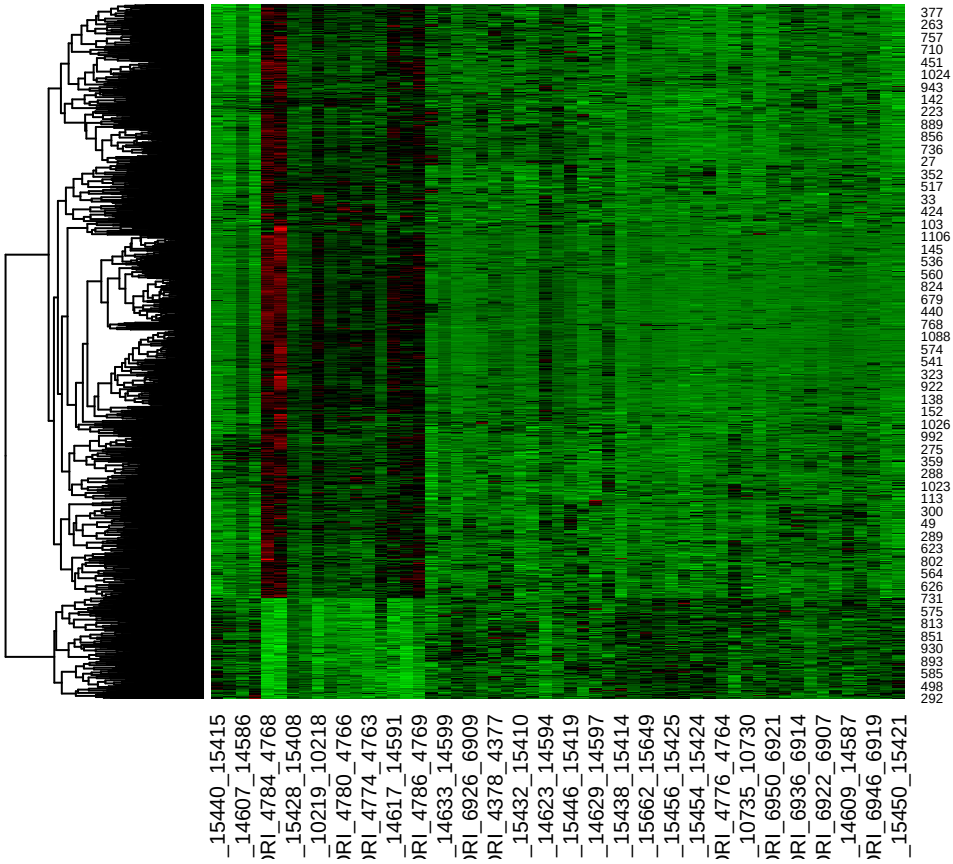


The following produces heatmap plots for each module.

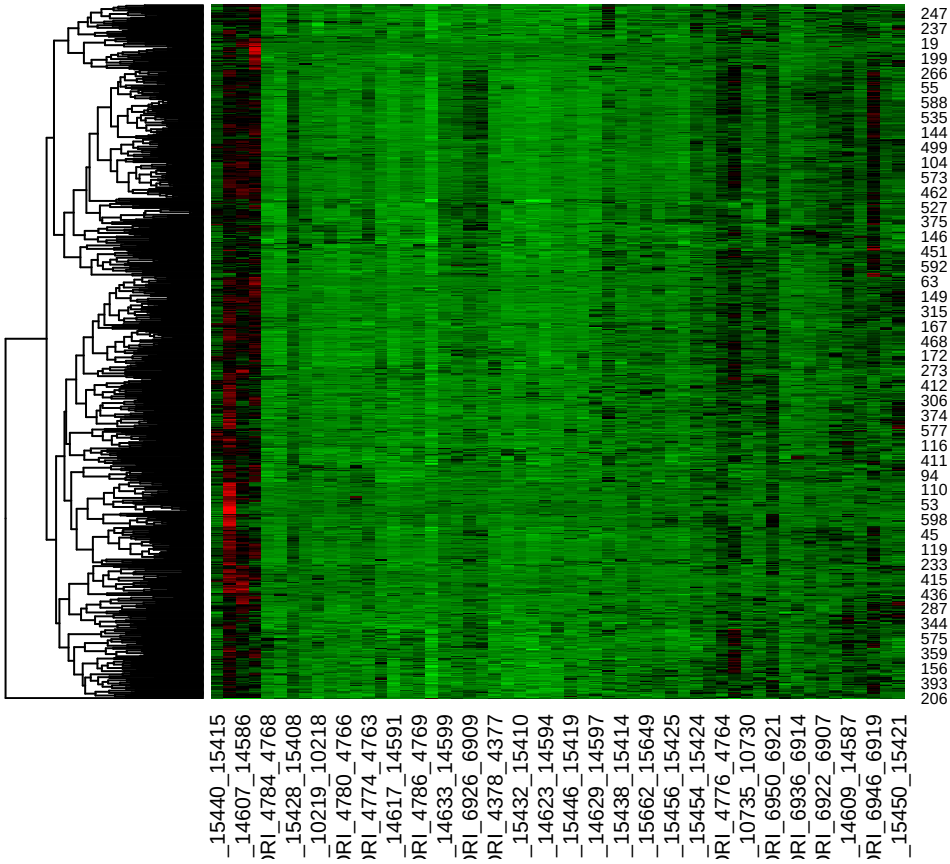
Here the rows are genes and the columns are samples.

Well defined modules results in characteristic band structures since the corresponding genes are highly correlated.

```
par(mfrow=c(2,1), mar=c(1, 2, 4, 1))
ClusterSamples=hclust(dist(datExpr[,restConnectivity] ),method="average")
# for the first (turquoise) module we use
which.module="turquoise"
rg=colorpanel(50, low="green", mid="black", high="red")
heatmap(t(scale(datExpr[ClusterSamples$order,restConnectivity][,colorh1==which.module ])),col=rg,Colv=NA
```




```
# for the second (blue) module we use
which.module="blue"
heatmap(t(scale(datExpr[ClusterSamples$order,restConnectivity][,colorh1==which.module ])),col=rg,Colv=NA
```

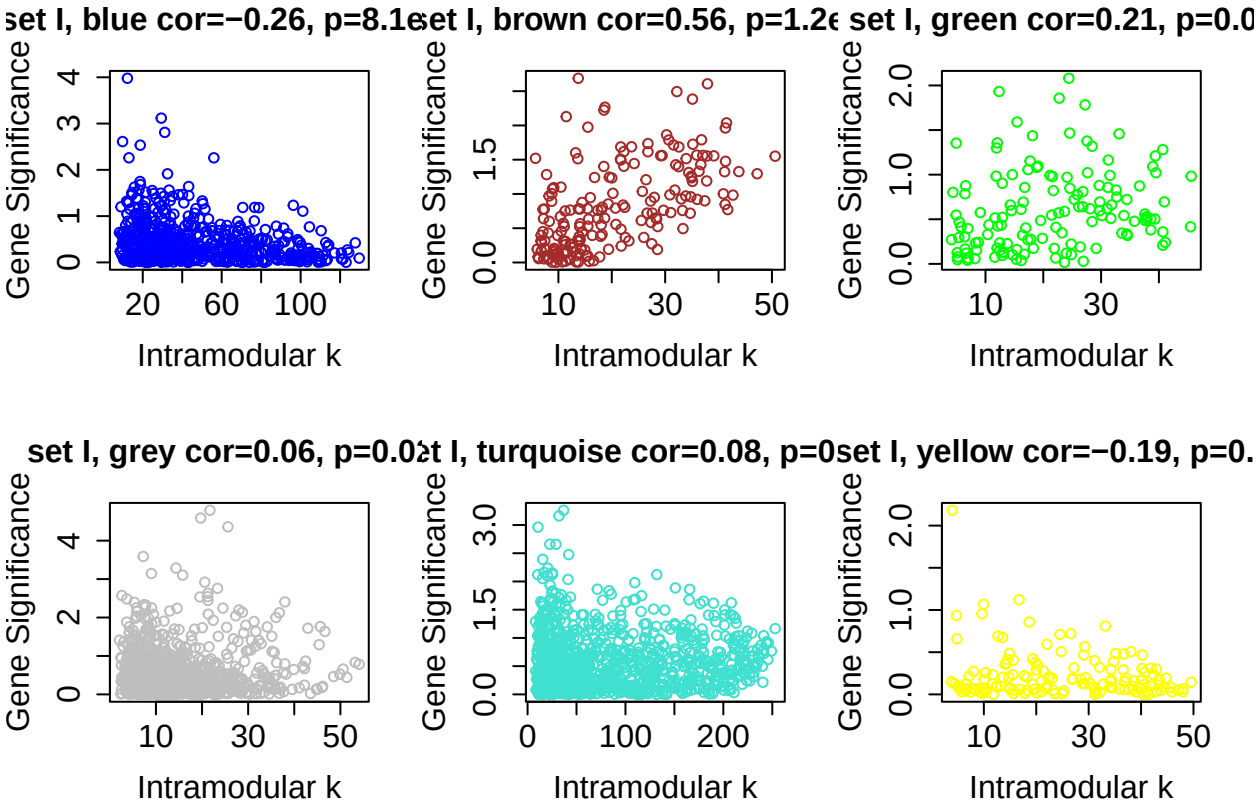


Now we extend the color definition to all genes by coloring all non-module genes grey.

```
color1=rep("grey",dim(datExpr)[[2]])
color1[restConnectivity]=as.character(colorh1)
# The function intramodularConnectivity computes the whole network connectivity kTotal,
# the within module connectivity (kWithin). kOut=kTotal-kWithin and
# and kDiff=kIn-kOut=2*kIN-kTotal
ConnectivityMeasures=intramodularConnectivity(ADJ,colors=colorh1)
names(ConnectivityMeasures)
```

```
## [1] "kTotal"  "kWithin" "kOut"    "kDiff"
```

```
# The following plots show the gene significance vs intramodular connectivity
colorlevels=levels(factor(colorh1))
par(mfrow=c(2,3),mar=c(5, 4, 4, 2) + 0.1)
for (i in c(1:length(colorlevels) ) ) {
whichmodule=colorlevels[[i]];restrict1=colorh1==whichmodule
verboseScatterplot(ConnectivityMeasures$kWithin[restrict1],
GeneSignificance[restrict1],col=colorh1[restrict1],main= paste("set I,",
whichmodule),ylab="Gene Significance",xlab="Intramodular k")
}
```



Generalizing the intramodular connectivity measure to *all* genes. Note that the intramodular connectivity measure is only defined for the genes inside a given module. But in practice it can be very important to measure how connected a given genes is to biologically interesting modules. Toward this end, we define a module eigengene based connectivity measure for each gene as the correlation between a the gene expression and the module eigengene. Specifically,

kMEbrown(i)=cor(x(i), PCbrown)

where x(i) is the gene expression profile of the i-th gene and PCbrown is the module eigengene of the brown module. Note that the definition does not require that the i-th gene is a member of the brown module.

The following data frame contains the kME values corresponding to each module.

```
datKME=signedKME(datExpr, datME)
#Note we have an intramodular connectivity measure for each color.
names(datKME)
```

```
## [1] "kMEblue"      "kMEbrown"     "kMEgreen"     "kMEgrey"      "kMEturquoise"
## [6] "kMEyellow"
```

Note that the intramodular connectivity has been computed for each of the 8000 genes.

```
dim(datKME)
```

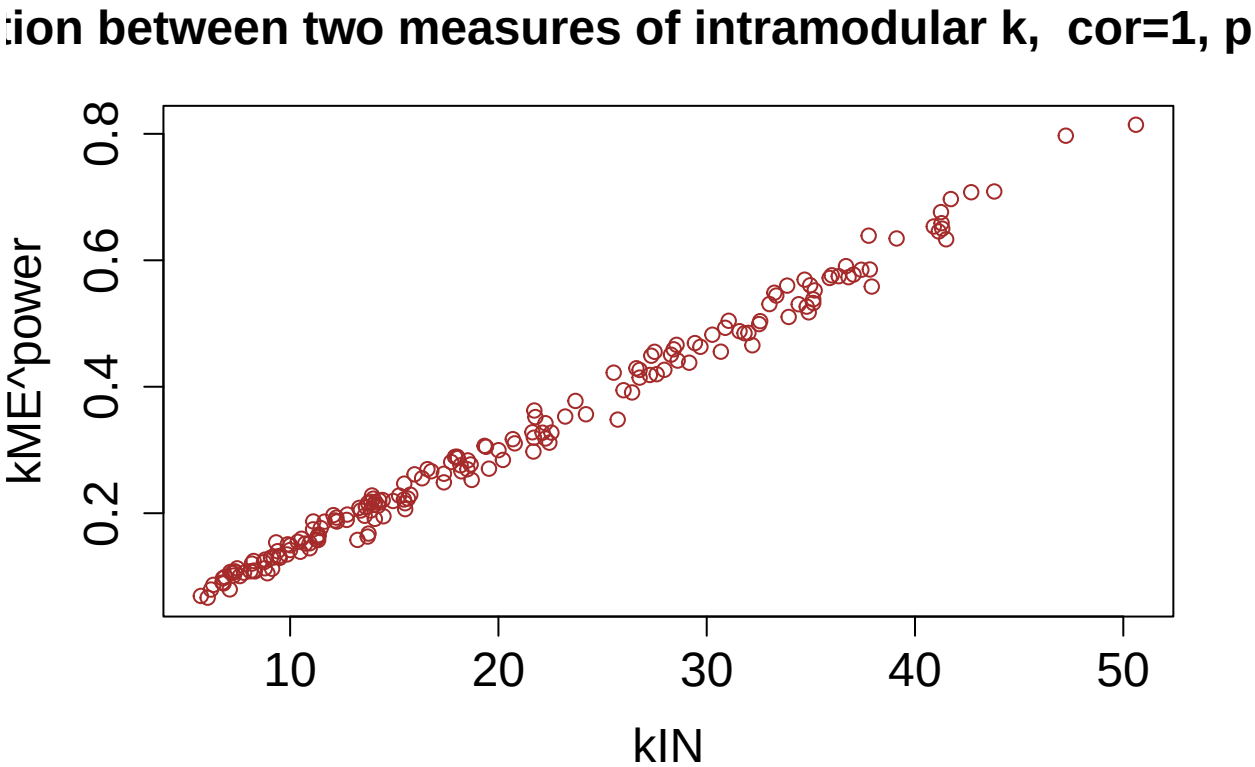
```
## [1] 8000    6
```

```
attach(datKME)
```

Question: how do the kME measure relate to the standard intramodular connectivity?

```
whichmodule="brown"
restrictGenes= colorh1== whichmodule
par(mfrow=c(1,1))
```

```
verboseScatterplot(ConnectivityMeasures$kWithin[ restrictGenes],
(datKME$kMEbrown[restConnectivity][restrictGenes])^beta1 ,xlab="kIN",ylab="kME^power",
col=whichmodule,main="Relation between two measures of intramodular k, ")
```



Note that after raising kME to a power of 6, it is highly correlated with kWithin. A theoretical derivation of this finding can be found in Horvath and Dong (2008).

Question: find genes with high gene significance (Cox-pvalue smaller than 0.05) and high intramodular connectivity in the brown module.

```
attach(datKME)
FilterGenes= GeneSignificanceALL > -log10(0.05) & abs(kMEbrown)>.85
table(FilterGenes)
```

```
## FilterGenes
## FALSE  TRUE
##  7970    30
```

```
datSummary[FilterGenes,]
```

```
##          gbm133a Gene.Symbol LocusLink    pCox HazardRatio HRlower95 HRupper95
## 731  219918_s_at        ASPM    259266 0.04740        1.95     1.100      3.46
## 805    209464_at       AURKB      9212 0.04870        2.21     1.220      4.03
## 1340 214710_s_at       CCNB1       891 0.02790        1.66     0.937      2.94
## 1402 202870_s_at       CDC20       991 0.01090        2.70     1.470      4.96
## 1404   204695_at      CDC25A       993 0.04000        2.09     1.140      3.82
## 1595 204170_s_at        CKS2      1164 0.03720        1.82     1.030      3.22
## 2297 219787_s_at        ECT2      1894 0.02060        2.30     1.260      4.22
## 2630 221591_s_at    FLJ10156     54478 0.01620        1.89     1.070      3.34
## 2671   213007_at    FLJ10719     55215 0.01370        1.92     1.070      3.43
## 2974 202580_x_at       FOXM1      2305 0.02740        1.79     1.020      3.14
```

```
## 3360 218662_s_at      HCAP-G     64151 0.04670        1.70     0.957      3.02
## 3475 208808_s_at       HMGB2      3148 0.02750        1.59     0.906      2.80
## 3921 202503_s_at    KIAA0101      9768 0.02760        1.83     1.030      3.25
## 4127   206364_at       KIF14      9928 0.03340        1.81     1.020      3.20
## 4132   218755_at      KIF20A     10112 0.03750        1.81     1.020      3.20
## 4138   218355_at       KIF4A     24137 0.04720        2.52     1.380      4.61
## 4158 218883_s_at       KLIP1     79682 0.02780        1.73     0.975      3.07
## 4164   219306_at       KNSL7     56992 0.01630        2.25     1.250      4.05
## 4166   204162_at       KNTC2     10403 0.02420        1.82     1.030      3.24
## 4168   201088_at       KPNA2      3838 0.02050        2.19     1.210      3.97
## 4481 203362_s_at      MAD2L1      4085 0.02710        1.57     0.895      2.75
## 5245   218039_at      NUSAP1     51203 0.01880        1.84     1.040      3.27
## 5826 218009_s_at        PRC1      9055 0.00247        2.41     1.320      4.41
## 6010 203554_x_at       PTTG1      9232 0.00413        1.97     1.110      3.49
## 6012   208511_at       PTTG2     10744 0.03050        1.60     0.901      2.84
## 6437   201890_at        RRM2      6241 0.01840        1.75     0.982      3.13
## 7450   201292_at       TOP2A      7153 0.02810        1.92     1.080      3.41
## 7453   219148_at        TOPK     55872 0.01930        2.00     1.130      3.54
## 7481 210052_s_at        TPX2     22974 0.00918        1.89     1.070      3.35
## 7624   202954_at       UBE2C     11065 0.00321        2.09     1.150      3.80
##       HRsd color1
## 731  0.292  brown
## 805  0.306  brown
## 1340 0.292  brown
## 1402 0.311  brown
## 1404 0.309  brown
## 1595 0.291  brown
## 2297 0.308  brown
## 2630 0.290  brown
## 2671 0.297  brown
## 2974 0.288  brown
## 3360 0.293  brown
## 3475 0.287  brown
## 3921 0.292  brown
## 4127 0.292  brown
## 4132 0.292  brown
## 4138 0.307  brown
## 4158 0.293  brown
## 4164 0.299  brown
## 4166 0.292  brown
## 4168 0.303  brown
## 4481 0.286  brown
## 5245 0.293  brown
## 5826 0.307  brown
## 6010 0.292  brown
## 6012 0.293  brown
## 6437 0.296  brown
## 7450 0.292  brown
## 7453 0.291  brown
## 7481 0.291  brown
## 7624 0.306  brown
```

Comments: The ASPM gene colored in red was the focus of the paper Horvath et al (2006) but there are many other interesting genes.

To illustrate the use of the kME measures, we also address the following questions

Question: Screen for significant genes that have a negative correlation with the brown module eigengene

```
FilterGenes= GeneSignificanceALL> -log10(0.05) & -kMEbrown> .5 # notice the red minus sign!
table(FilterGenes)
```

```
## FilterGenes
## FALSE  TRUE
##  7996     4
```

```
datSummary[FilterGenes,]
```

```
##          gbm133a Gene.Symbol LocusLink   pCox HazardRatio HRlower95 HRupper95
## 561  206200_s_at      ANXA11       311 0.0132        1.69     0.967      2.97
## 1618 221042_s_at        CLMN     79789 0.0257        1.60     0.906      2.81
## 5567   214152_at        PIGB      9488 0.0396        1.55     0.884      2.71
## 6682 201811_x_at      SH3BP5      9467 0.0162        2.09     1.180      3.69
##       HRsd    color1
## 561  0.286      grey
## 1618 0.288     green
## 5567 0.286 turquoise
## 6682 0.290 turquoise
```

Question: Screen for significant genes that are close to the brown module and the green module and far away from the yellow module. Answer

```
FilterGenes= GeneSignificanceALL > -log10(0.05) & abs(kMEbrown)>.5 & abs(kMEgreen)>.5
table(FilterGenes)
```

```
## FilterGenes
## FALSE  TRUE
##  7996     4
```

```
datSummary[FilterGenes,]
```

```
##          gbm133a Gene.Symbol LocusLink   pCox HazardRatio HRlower95 HRupper95
## 1422 218399_s_at       CDCA4     55038 0.0438        1.25     0.716      2.18
## 1618 221042_s_at        CLMN     79789 0.0257        1.60     0.906      2.81
## 3244   213170_at        GPX7      2882 0.0199        1.09     0.626      1.91
## 6682 201811_x_at      SH3BP5      9467 0.0162        2.09     1.180      3.69
##       HRsd    color1
## 1422 0.284 turquoise
## 1618 0.288     green
## 3244 0.285      grey
## 6682 0.290 turquoise
```

Question: Screen for significant genes that are close to the brown module and far away from the yellow module. Answer

```
FilterGenes= GeneSignificanceALL > -log10(0.05) & abs(kMEbrown)>.6 & abs(kMEyellow)<.3
table(FilterGenes)
```

```
## FilterGenes
## FALSE  TRUE
##  7949    51
```

How to output the data?

```
datout=data.frame(datSummary, colorNEW=color1, ConnectivityNew=Connectivity,datKME )
write.table(datout, file="OutputCancerNetwork.csv", sep=",", row.names=F)
```

Robustness with regard to the soft threshold

We find that the results of weighted gene co-expression network analysis are highly robust with regard to the soft threshold beta. Here we show some results that demonstrate this point. Now we want to see how the correlation between kWithin and gene significance changes for different SOFT thresholds (powers). This analysis is restricted to the brown module genes.

Also we compare the 2 different connectivity measures: The standard connectivity measure is defined as the row sum of the adjacency matrix. The non-standard connectivity measure (kTOM.IN) is defined as row sum of the topological overlap matrix .

Now we want to see how the correlation between kWithin and gene significance changes for different powers beta within the BROWN module.

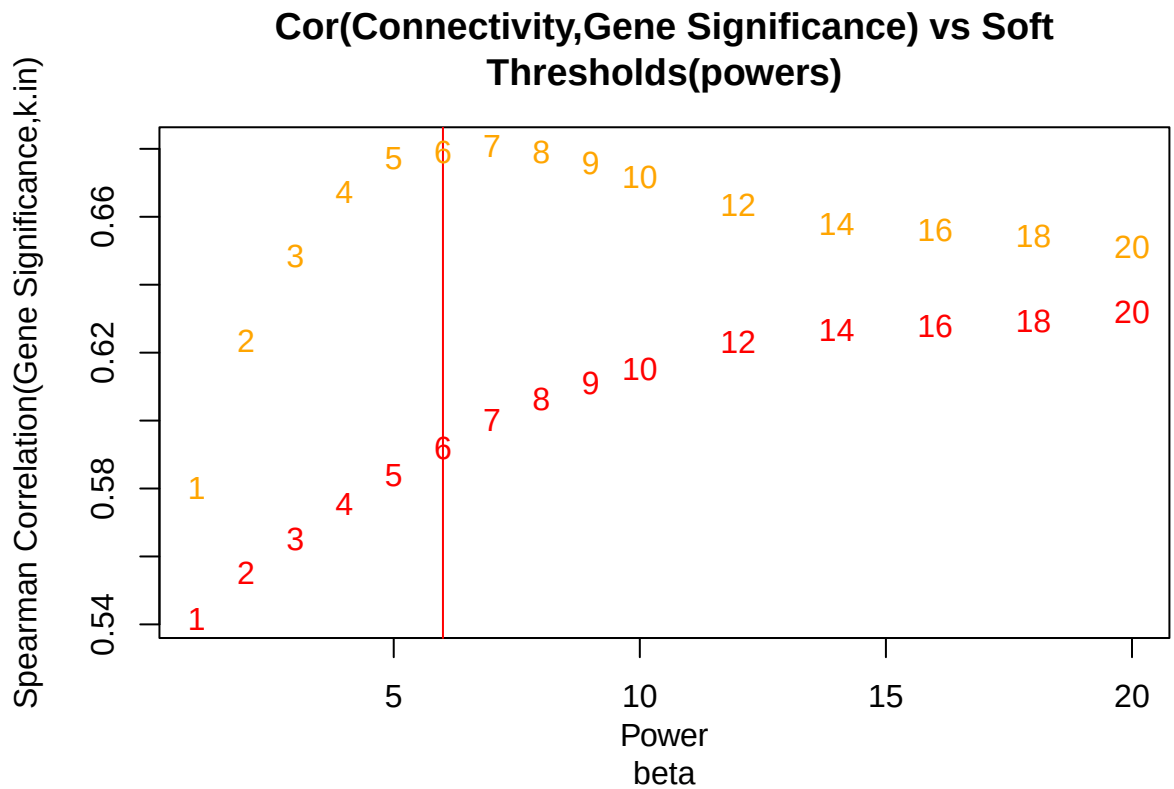
```
corhelp=cor(datExpr[,restConnectivity],use="pairwise.complete.obs")
whichmodule="brown"
datconnectivitiesSoft=data.frame(matrix(666,nrow=sum(colorh1==whichmodule),ncol=length(powers1)))
names(datconnectivitiesSoft)=paste("kWithinPower",powers1,sep="")
for (i in c(1:length(powers1)) ) {
datconnectivitiesSoft[,i]=apply(abs(corhelp[colorh1==whichmodule,
colorh1==whichmodule])^powers1[i],1,sum)}
SpearmanCorrelationsSoft=signif(cor(GeneSignificance[ colorh1==whichmodule],
datconnectivitiesSoft, method="s",use="p"))
# Here we use the new connectivity measure based on the topological overlap matrix
datKTOM.IN=data.frame(matrix(666,nrow=sum(colorh1==whichmodule),ncol=length(powers1)))
names(datKTOM.IN)=paste("omegaWithinPower",powers1,sep="")
for (i in c(1:length(powers1)) ) {
datconnectivitiesSoft[,i]=apply(
1-TOMdist(abs(corhelp[colorh1==whichmodule, colorh1==whichmodule])^powers1[i])
,1,sum)}
```

```
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
```

```
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
```

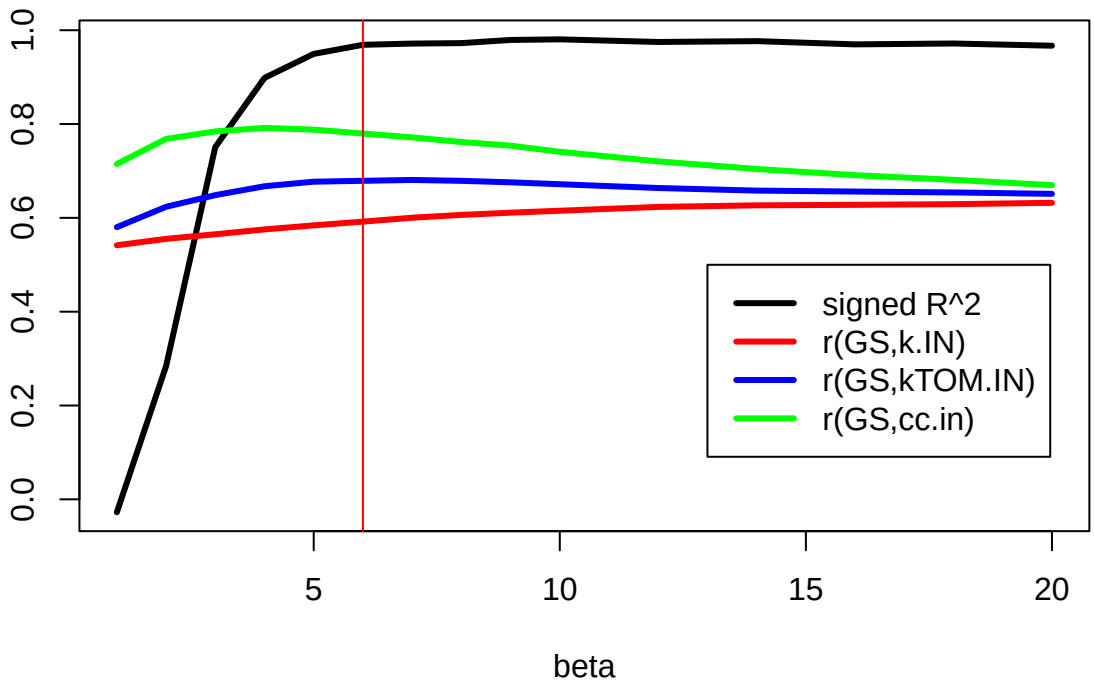
```
SpearmanCorrelationskTOMSoft=as.vector(signif(cor(GeneSignificance[ colorh1==whichmodule],
datconnectivitiesSoft, method="s",use="p")))
par(mfrow=c(1,1), mar=c(5, 4, 4, 2) +0.1)
plot(powers1, SpearmanCorrelationsSoft, main="Cor(Connectivity,Gene Significance) vs Soft
Thresholds(powers)",ylab="Spearman Correlation(Gene Significance,k.in)",xlab="Power
beta",type="n",ylim=range(c(SpearmanCorrelationsSoft,
SpearmanCorrelationskTOMSoft),na.rm=T)
)
text(powers1, SpearmanCorrelationsSoft,labels=powers1,col="red")
# this draws a vertical line at the tau that was chosen by the
# scale free topology criterion.
abline(v=6,col="red")
```

```
points(powers1, SpearmanCorrelationskTOMSoft, type="n")
text(powers1, SpearmanCorrelationskTOMSoft,labels=powers1,col="orange")
```



Now we define the intramodular clustering coefficient (also see the section below)

```
datCCinSoft=data.frame(matrix(666,nrow=sum(colorh1==whichmodule),ncol=length(powers1)))
names(datCCinSoft)=paste("CCinSoft",powers1,sep="")
for (i in c(1:length(powers1)) ) {
datCCinSoft[,i]= clusterCoef(abs(corhelp[colorh1==whichmodule,
colorh1==whichmodule])^powers1[i])
}
SpearmanCorrelationsCCinSoft=as.vector(signif(cor(GeneSignificance[ colorh1==whichmodule],
datCCinSoft, method="s",use="p")))
dathelpSoft=data.frame(signedRsquared=-sign(RpowerTable[,3])*RpowerTable[,2], corGSkINSoft
=as.vector(SpearmanCorrelationsSoft), corGSwINSoft=
as.vector(SpearmanCorrelationskTOMSoft),corGSCCSoft=as.vector(SpearmanCorrelationsCCinSoft))
matplot(powers1,dathelpSoft,type="l",lty=1,lwd=3,col=c("black","red","blue","green"),ylab="",xlab="beta
abline(v=6,col="red")
legend(13,0.5, c("signed R^2","r(GS,k.IN)","r(GS,kTOM.IN)","r(GS,cc.in)"),
col=c("black","red","blue","green"), lty=1,lwd=3,ncol = 1, cex=1)
```



Comment:

the intramodular cluster coefficient (green line) achieves the highest correlation with the gene significance. The TOM based intramodular connectivity kTOM.in (blue line) is superior to the standard connectivity measure k.in (red line) in this application. The vertical line corresponds to the power picked by the scale free topology criterion. The scale free topology criterion leads to near optimal biological signal when using kTOM.IN.

CAVEAT: It is worth mentioning that in other real data sets k.in outperforms cc.in and kTOM.IN.

Computation of the cluster coefficient in the weighted network.

The clustering coefficient measures the cliquishness of a gene. Many references use this concept. For our definition of the clustering coefficient in weighted networks consult Zhang and Horvath (2005) and Dong and Horvath (2007).

Here we study how the clustering coefficient depends on the connectivity.

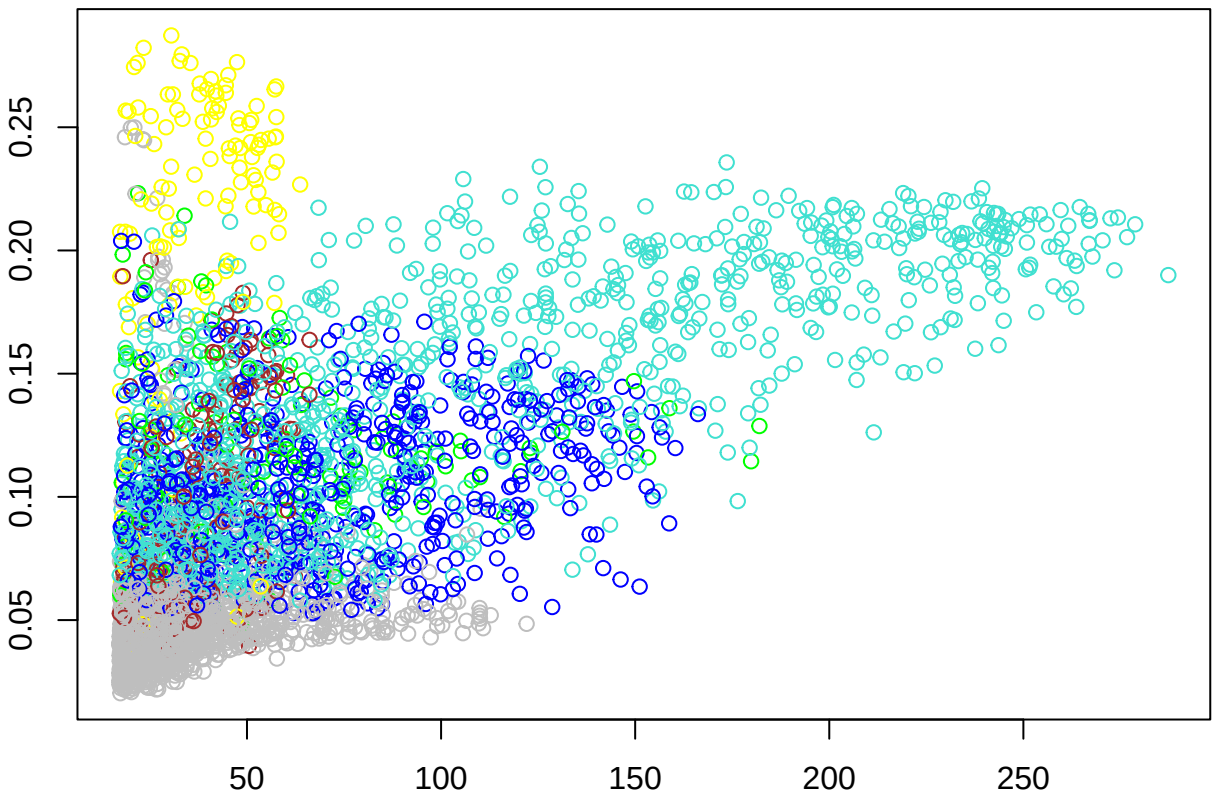
Since this is computationally intensive (around 15 minutes), we recommend to skip it.

```
CC= clusterCoef(ADJ)
gc()
```

```
##            used  (Mb) gc trigger  (Mb) limit (Mb)  max used   (Mb)
## Ncells  4851417 259.1    8356247 446.3         NA   8356247  446.3
## Vcells 48125849 367.2  110821718 845.6      65536 336733606 2569.1
```

Now we plot cluster coefficient versus connectivity for all genes

```
par(mfrow=c(1,1),mar=c(2,2,2,1))
plot(Connectivity[restConnectivity],CC,col=as.character(colorh1),xlab="Connectivity",ylab="Clust
er Coefficient")
```



This compute the correlation between cluster coefficient and connectivity within each module.

```
restHub= Connectivity[restConnectivity]>0
by(data.frame(CC=CC[restHub], k=Connectivity[restConnectivity][restHub]),
INDICES=colorh1[restHub],FUN=cor)
```

```
## colorh1[restHub]: blue
##          CC        k
## CC 1.000000 0.242394
## k  0.242394 1.000000
## ------------------------------------------------------------
## colorh1[restHub]: brown
##           CC         k
## CC 1.0000000 0.4765162
## k  0.4765162 1.0000000
## ------------------------------------------------------------
## colorh1[restHub]: green
##            CC          k
## CC 1.00000000 0.06135442
## k  0.06135442 1.00000000
## ------------------------------------------------------------
## colorh1[restHub]: grey
##           CC         k
## CC 1.0000000 0.1347935
## k  0.1347935 1.0000000
## ------------------------------------------------------------
## colorh1[restHub]: turquoise
##          CC        k
## CC 1.000000 0.732844
```

```
## k  0.732844 1.000000
## ------------------------------------------------------------
## colorh1[restHub]: yellow
##          CC        k
## CC 1.000000 0.484205
## k  0.484205 1.000000
```

Unweighted analysis

To construct an unweighted network (hard thresholding), we consider the following vector of potential thresholds.

```
thresholds1= c(seq(.1,.5, by=.1), seq(.55,.95, by=.05) )
```

To choose a cut-off value, we propose to use the Scale-free Topology Criterion (Zhang and Horvath 2005). Here the focus is on the linear regression model fitting index (denoted below by scale.law.R.2) that quantify the extent of how well a network satisfies a scale-free topology. The function PickHardThreshold can help one to estimate the cut-off value when using hard thresholding with the step adjacency function. The first column lists the threshold ("cut"), the second column lists the corresponding p-value based on the Fisher transform. The third column reports the resulting scale free topology fitting index R^2. The fourth column reports the slope of the fitting line. The fifth column reports the fitting index for the truncated exponential scale free model. Usually we ignore it. The remaining columns list the mean, median and maximum connectivity. To pick a hard threshold (cut) with the scale free topology criterion: aim for high scale free R^2 (column 3), high connectivity (col 6) and negative slope (around -1, col 4).

```
RdichotTable=WGCNA::pickHardThreshold(datExpr, cutVector=thresholds1)[[2]]
```

```
##     Cut  p.value SFT.R.sq  slope. truncated.R.2  mean.k. median.k. max.k.
## 1  0.10 4.63e-01  0.86900  6.5600         0.945 5610.000      5680   6780
## 2  0.20 1.39e-01  0.71900  1.7900         0.953 3530.000      3580   5520
## 3  0.30 2.47e-02  0.00696  0.0695         0.955 1960.000      1890   4200
## 4  0.40 2.25e-03  0.65400 -0.8370         0.941  947.000       786   2940
## 5  0.50 8.72e-05  0.83300 -1.2100         0.914  395.000       232   1860
## 6  0.55 1.13e-05  0.87100 -1.2300         0.904  243.000       110   1410
## 7  0.60 1.02e-06  0.86100 -1.2400         0.870  145.000        43   1080
## 8  0.65 5.92e-08  0.96100 -1.1100         0.952   85.900        14    795
## 9  0.70 1.93e-09  0.97300 -1.0500         0.966   50.200         4    616
## 10 0.75 2.88e-11  0.98400 -1.0100         0.983   28.900         1    480
## 11 0.80 1.40e-13  0.95300 -1.0300         0.940   15.700         0    383
## 12 0.85 0.00e+00  0.97600 -1.0400         0.972    7.200         0    262
## 13 0.90 0.00e+00  0.98000 -1.0900         0.976    2.170         0    154
## 14 0.95 0.00e+00  0.94000 -1.2600         0.965    0.194         0     47
```

```
gc()
```

```
##            used  (Mb) gc trigger  (Mb) limit (Mb)  max used   (Mb)
## Ncells  4853051 259.2    8356247 446.3         NA   8356247  446.3
## Vcells 48131288 367.3  110821718 845.6      65536 336733606 2569.1
```

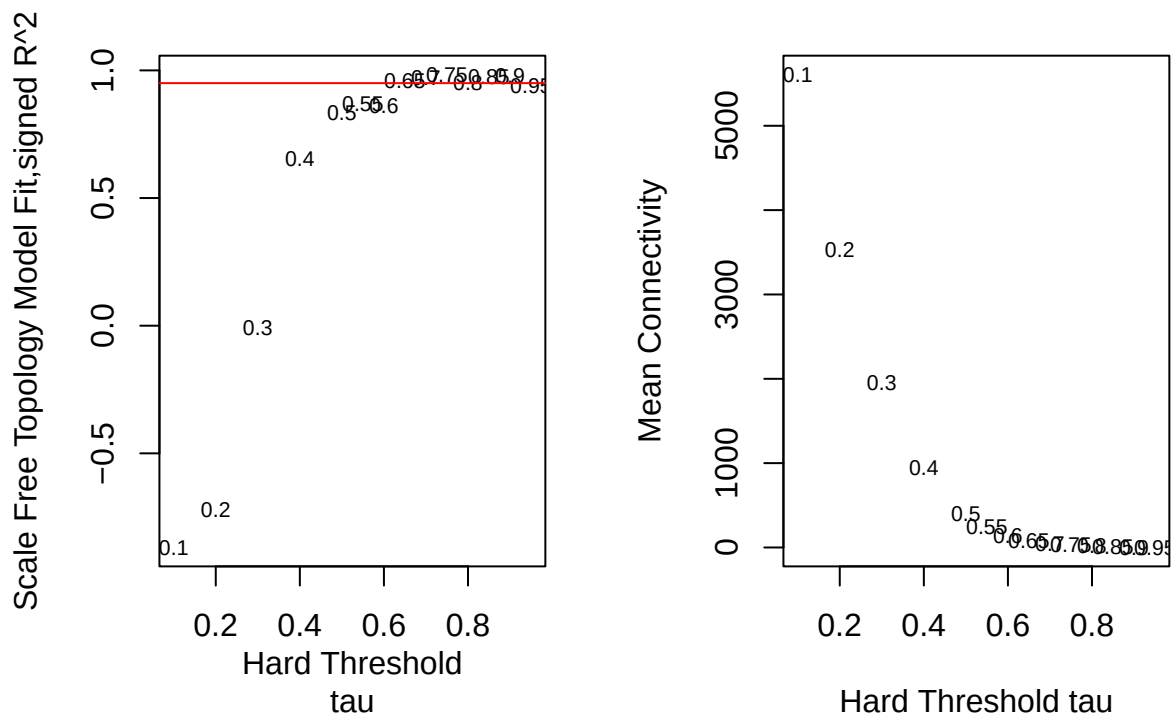
Let's plot the scale free topology model fitting index (R^2) versus the cut-off tau. However, the R^2 values of those cut-offs that lead to a negative slope have been pre-multiplied by -1.

```
cex1=0.7
gc()
```

```
##            used  (Mb) gc trigger  (Mb) limit (Mb)  max used   (Mb)
## Ncells  4853200 259.2    8356247 446.3         NA   8356247  446.3
```

```
## Vcells 48132663 367.3  110821718 845.6      65536 336733606 2569.1
```

```
par(mfrow=c(1,2))
plot(RdichotTable[,1], -sign(RdichotTable[,4])*RdichotTable[,3],xlab="Hard Threshold
tau",ylab="Scale Free Topology Model Fit,signed R^2", type="n")
text(RdichotTable[,1], -sign(RdichotTable[,4])*RdichotTable[,3] , labels=thresholds1,cex=cex1)
# this line corresponds to using an R^2 cut-off of h
abline(h=0.95,col="red")
plot(RdichotTable[,1], RdichotTable[,6],xlab="Hard Threshold tau",ylab="Mean Connectivity",
type="n")
text(RdichotTable[,1], RdichotTable[,6] , labels=thresholds1, cex=cex1)
```



To choose a cut-off value tau, we propose to use the Scale-free Topology Criterion (Zhang and Horvath 2005). Here the focus is on the linear regression model fitting index (denoted as scale.law.R.2) that quantify the extent of how well a network satisfies a scale-free topology. We choose the cut value (tau) of 0.7 for the correlation matrix since this is where the R^2 curve seems to saturates. The red line corresponds to R^2= 0.95. From the above table, we find that the resulting slope looks OK (negative and around -1), and the mean number of connections looks good Below we investigate different choices of tau.

Now we want to see how the correlation between kWithin and gene significance changes for different hard threshold values tau within the BROWN module.

```
corhelp=cor(datExpr[,restConnectivity],use="pairwise.complete.obs")
whichmodule="brown"
# the following data frame contains the intramodular connectivities
# corresponding to different hard thresholds
datconnectivitiesHard=data.frame(matrix(666,nrow=sum(colorh1==whichmodule),ncol=length(thresholds1)))
names(datconnectivitiesHard)=paste("kWithinTau",thresholds1,sep="")
for (i in c(1:length(thresholds1)) ) {
datconnectivitiesHard[,i]=apply(abs(corhelp[colorh1==whichmodule,
colorh1==whichmodule])>=thresholds1[i],1,sum)}
SpearmanCorrelationsHard=signif(cor(GeneSignificance[ colorh1==whichmodule],
datconnectivitiesHard, method="s",use="p"))
```

Now we define the new connectivity measure omega based on the TOM matrix. It simply considers TOM as adjacency matrix...

```
datkTOMINHard=data.frame(matrix(666,nrow=sum(colorh1==whichmodule),ncol=length(thresholds1)))
names(datkTOMINHard)=paste("omegaWithinHard",thresholds1,sep="")
for (i in c(1:length(thresholds1)) ) {
datconnectivitiesHard[,i]=apply(
1-TOMdist(apply(abs(corhelp[colorh1==whichmodule,
colorh1==whichmodule])>thresholds1[i],2,as.numeric)),1,sum)}
```

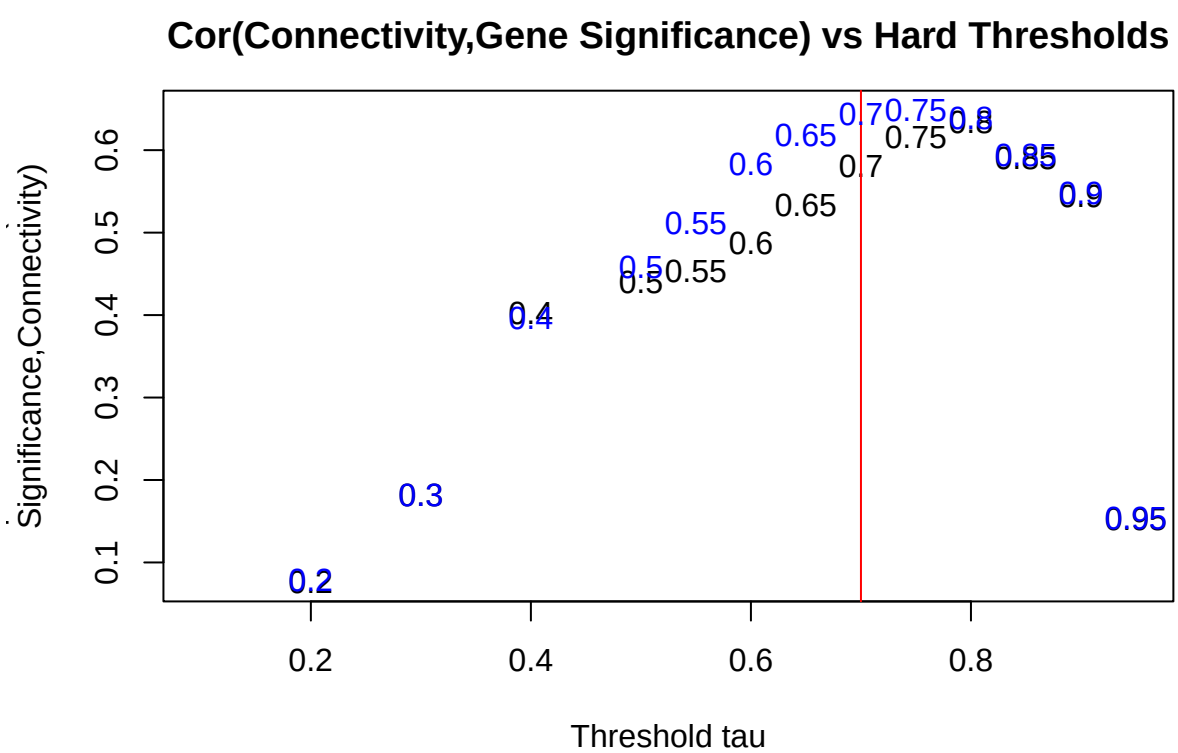
```
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
```

```
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
## ..done.
```

```
SpearmanCorrelationskTOMHard=as.vector(signif(cor(GeneSignificance[
colorh1==whichmodule], datconnectivitiesHard, method="s",use="p")))
```

Now we compare the performance of the 2 connectivity measures (k.in and kTOM.IN) across different hard thresholds when it comes to predicting prognostic genes in the brown module

```
par(mfrow=c(1,1), mar=c(5, 4, 4, 2) +0.1)
plot(thresholds1, SpearmanCorrelationsHard, main="
Cor(Connectivity,Gene Significance) vs Hard Thresholds",ylab="Spearman Correlation(Gene
Significance,Connectivity)",xlab="Threshold tau", type="n",
ylim=range(c(SpearmanCorrelationsHard, SpearmanCorrelationskTOMHard),na.rm=T))
text(thresholds1, SpearmanCorrelationsHard,labels=thresholds1,col="black")
# this draws a vertical line at the tau that was chosen by the
# scale free topology criterion.
abline(v=0.7,col="red")
points(thresholds1, SpearmanCorrelationskTOMHard, type="n")
text(thresholds1, SpearmanCorrelationskTOMHard,labels=thresholds1,col="blue")
```

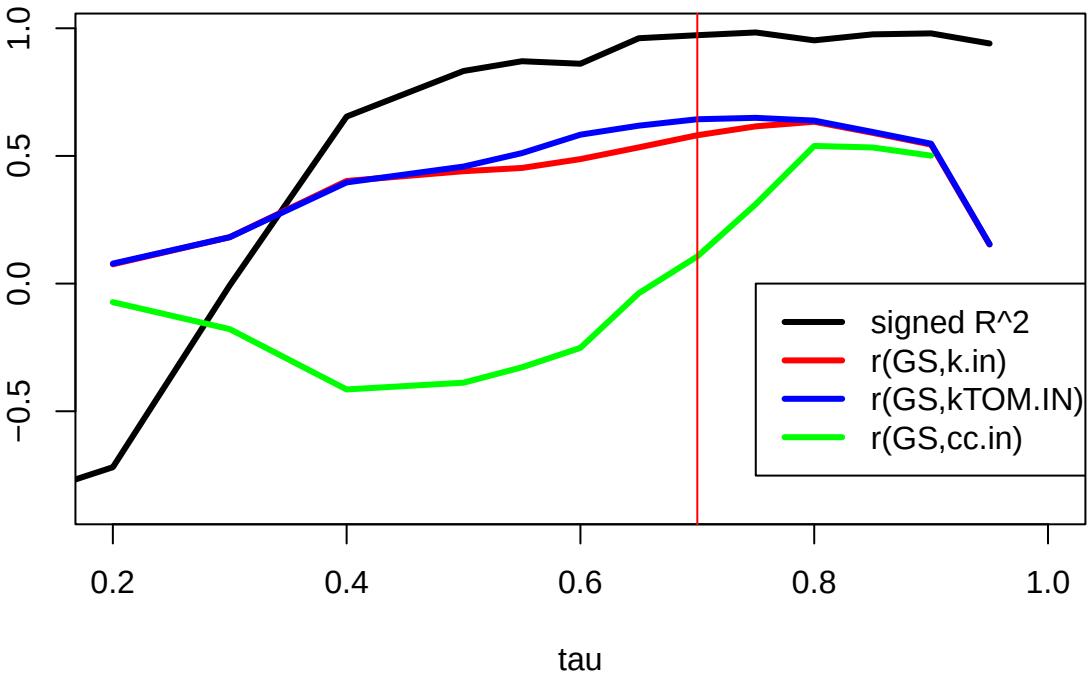


Now we define the intramodular cluster coefficient

```
datCCinHard=data.frame(matrix(666,nrow=sum(colorh1==whichmodule),ncol=length(thresholds1
)))
names(datCCinHard)=paste("CCinHard",thresholds1,sep="")
for (i in c(1:length(thresholds1)) ) {
datCCinHard[,i]= clusterCoef(apply(abs(corhelp[colorh1==whichmodule,
colorh1==whichmodule])>thresholds1[i],2,as.numeric))}
SpearmanCorrelationsCCinHard=as.vector(signif(cor(GeneSignificance[ colorh1==whichmodule],
datCCinHard, method="s",use="p")))
```

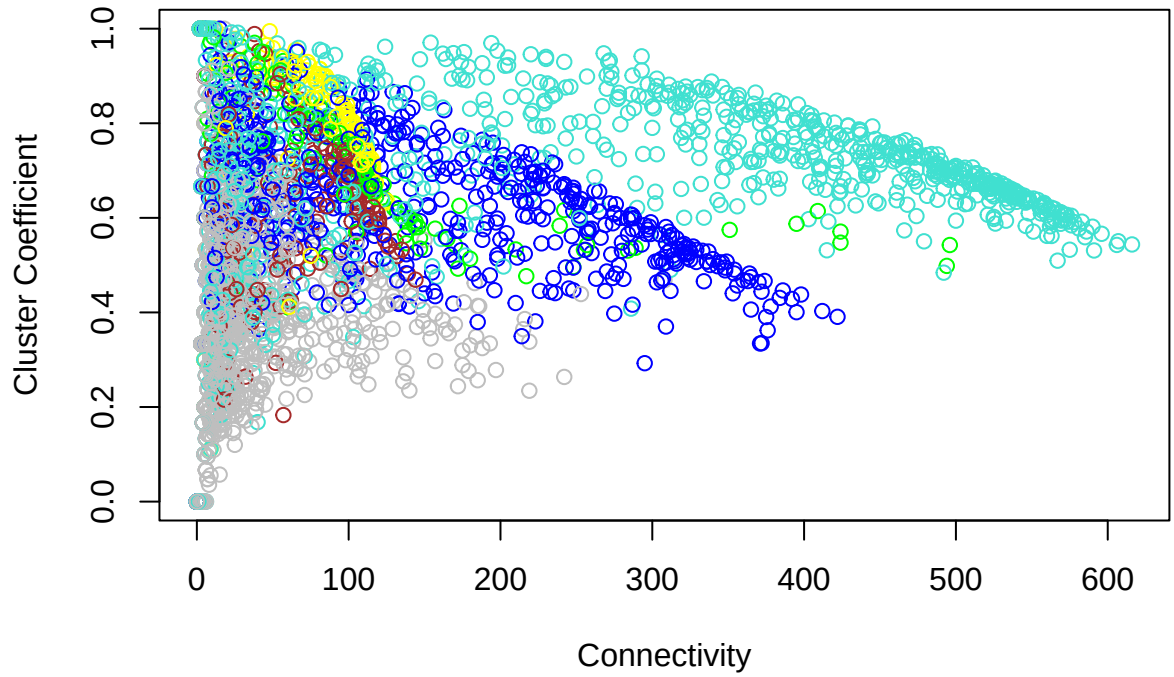
Now we compare the performance of the connectivity measures (k.in, kTOM.IN, cluster coefficience) across different hard thresholds when it comes to predicting prognostic genes in the brown module

```
dathelpHard=data.frame(signedRsquared=-sign(RdichotTable[,4])*RdichotTable[,3],
corGSkINHard =as.vector(SpearmanCorrelationsHard), corGSwINHard=
as.vector(SpearmanCorrelationskTOMHard),corGSCCHard=as.vector(SpearmanCorrelationsCCinHard))
matplot(thresholds1,dathelpHard,type="l",lty=1,lwd=3,col=c("black","red","blue","green"),ylab=""
,xlab="tau",xlim=c(.2,1))
legend(0.75,0, c("signed R^2","r(GS,k.in)","r(GS,kTOM.IN)","r(GS,cc.in)"),
col=c("black","red","blue","green"), lty=1,lwd=3,ncol = 1, cex=1)
abline(v=.7,col="red")
```



Note that very high or very small threshold values lead to a small correlation, i.e. a diminished biological signal. The red line corresponds to the threshold that was picked using the scale free topology criterion. The scale free topology criterion picked a threshold that leads to very high significant correlation between node connectivity and gene significance.

```
AdjMatHARD=abs(cor(datExpr[,restConnectivity]))>0.70+0.0
diag(AdjMatHARD)=0
cluster.coefrestHARD= clusterCoef(AdjMatHARD)
ConnectivityHARD= apply(AdjMatHARD,2,sum)
par(mfrow=c(1,1))
plot(ConnectivityHARD,cluster.coefrestHARD,col=as.character(colorh1),xlab="Connectivity",ylab="Cluster C
```



Now we correlate the cluster coefficient with connectivity by module in the unweighted network

```
restHub=ConnectivityHARD>100
by(data.frame(CC= cluster.coefrestHARD[restHub], k=ConnectivityHARD[restHub]),
INDICES=colorh1[restHub],FUN=cor)
```

```
## colorh1[restHub]: blue
##             CC          k
## CC  1.0000000 -0.5704594
## k  -0.5704594  1.0000000
## ------------------------------------------------------------
## colorh1[restHub]: brown
##            CC         k
## CC  1.000000 -0.759792
## k  -0.759792  1.000000
## ------------------------------------------------------------
## colorh1[restHub]: green
##             CC          k
## CC  1.0000000 -0.5427443
## k  -0.5427443  1.0000000
## ------------------------------------------------------------
## colorh1[restHub]: grey
##            CC         k
## CC  1.000000 -0.205176
## k  -0.205176  1.000000
## ------------------------------------------------------------
## colorh1[restHub]: turquoise
##             CC          k
## CC  1.0000000 -0.4295943
## k  -0.4295943  1.0000000
## ------------------------------------------------------------
## colorh1[restHub]: yellow
##             CC          k
```

```
## CC  1.0000000 -0.9097497
## k  -0.9097497  1.0000000
```

Let's compare a summary of soft thresholding to one of hard thresholding

```
apply(dathelpHard,2,summary)
```

```
## $signedRsquared
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## -0.8686  0.6988  0.9056  0.5993  0.9698  0.9835
##
## $corGSkINHard
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
## 0.07569 0.40205 0.48756 0.43782 0.58108 0.63378       1
##
## $corGSwINHard
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
## 0.07837 0.39628 0.54797 0.46577 0.61856 0.64919       1
##
## $corGSCCHard
##     Min.  1st Qu.   Median     Mean  3rd Qu.     Max.     NA's
## -0.41462 -0.27069 -0.05500  0.02667  0.35852  0.53909        2
```

• Using the Max. values, we find that when it comes to correlating gene significance with a centrality measure (connectivity or cluster coefficient), the soft intramodular cluster coefficient is most highly correlated with gene significance. Next comes the soft TOM based connectivity (wIN), then kIN. In other applications, the cluster coefficient is not the best centrality measure. But please let us know if you find empirical evidence that the cluster coefficient is a good centrality measure. In the latest version of the manuscript Zhang and Horvath (2005) we present a theoretical argument that shows that is a weak positive correlation between intramodular cluster coefficient and intramodular connectivity in weighted networks. In contrast, one finds a negative correlation between cluster coefficient and connectivity in unweighted networks (see the plot in the appendix). • We find that soft thresholding is superior to hard thresholding especially for low values of the scale free topology R^2. • In our opinion, soft centrality (connectivity) measures are better than hard measures because they are relatively robust with respect to the parameter of the adjacency function. For soft thresholding even choosing a power of beta=1 leads to a good biological signal (correlation). In contrast, choosing a hard threshold of tau=0.2 leads to a much reduced biological signal. Robustness is a very attractive property in this type of analysis since picking parameters of the adjacency function is rather ad-hoc. • The Scale free topology criterion leads to estimates of the adjacency function that often have good biological signal.

APPENDIX: Constructing an unweighted networks and comparing it to the weighted nework.

Here we study whether the 'soft' modules of the unweighted network described above can also be found in the unweighted network

Recall that the soft module assignment in the 3600 most connected genes is given by

```
colorh1=as.character(datSummary$color1[restConnectivity])
```

Let's define the adjacency matrix of an unweighted network

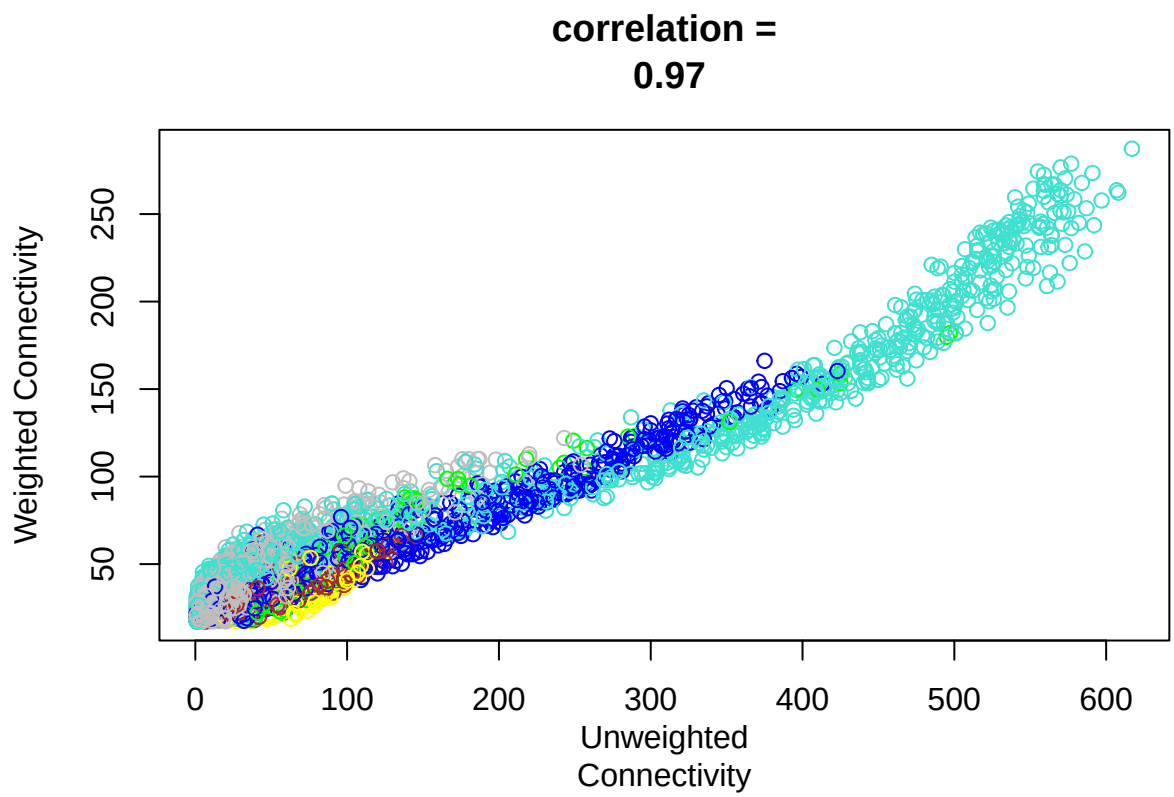
```
ADJ= abs(cor(datExpr[,restConnectivity],use="p"))>0.7
gc()
```

```
##            used  (Mb) gc trigger   (Mb) limit (Mb)  max used   (Mb)
## Ncells  4855351 259.4    8356247  446.3         NA   8356247  446.3
## Vcells 54632622 416.9  142729066 1089.0      65536 336733606 2569.1
```

```
# This is the unweighted connectivity
k=as.vector(apply(ADJ,2,sum))
```

Let's compare weighted to unweighted connectivity in a scatter plot

```
plot(k, Connectivity[restConnectivity],xlab="Unweighted
Connectivity",ylab="Weighted Connectivity",main=paste( "correlation =
",signif(cor(k,Connectivity[restConnectivity]),2)),col=colorh1)
```



Comments: • the connectivity measures is highly preserved between weighted and unweighted networks as long as the scale free topology criterion is used for network construction. It is re-assuring that the biological findings will be robust with respect to the network construction method • The genes with the highest whole network connectivity are contained in the turquoise module, which happens to be the largest module. The second most connected genes are in the blue module, which is the second largest module, etc.

The following code computes the topological overlap matrix based on the adjacency matrix

TIME: Takes about 10 minutes. . . .

```
ADJ <- apply(ADJ,2,as.numeric)
dissTOM=TOMdist(ADJ)
```

```
## ..connectivity..
## ..matrix multiplication (system BLAS)..
## ..normalization..
```

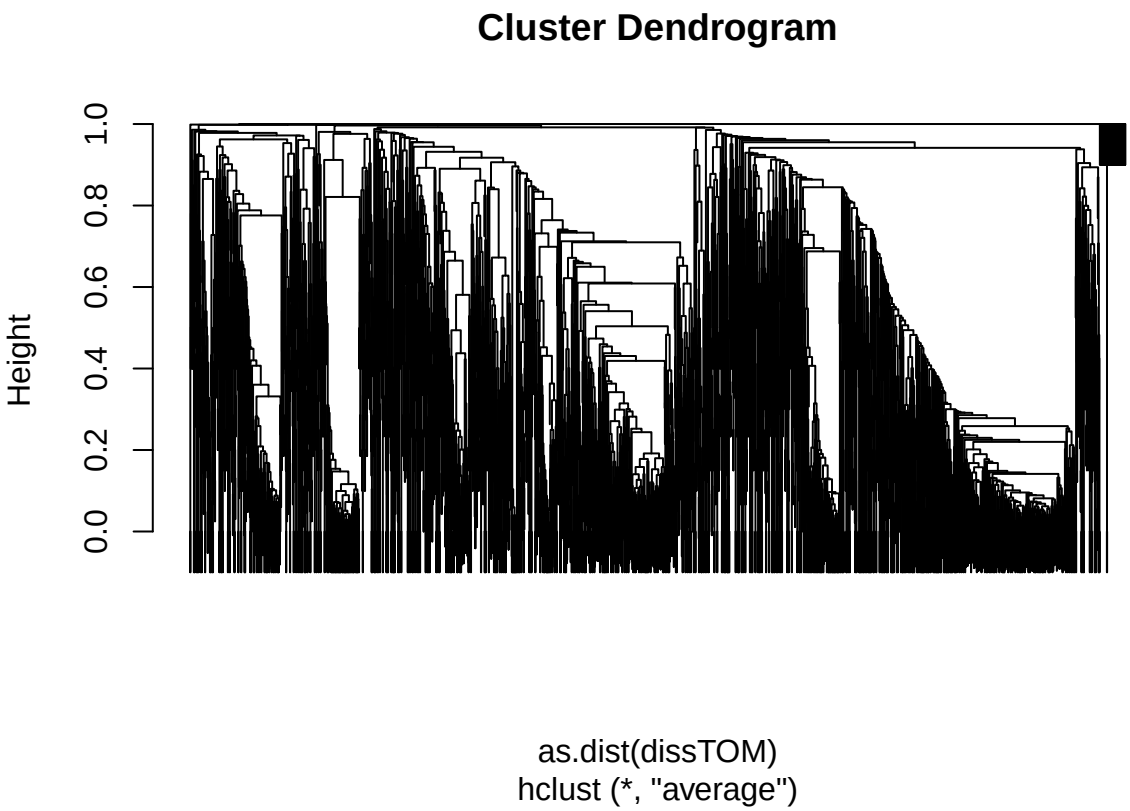
```
## ..done.
```

```
gc()
```

```
##            used  (Mb) gc trigger   (Mb) limit (Mb)  max used   (Mb)
## Ncells  4855325 259.4    8356247  446.3         NA   8356247  446.3
## Vcells 61114319 466.3  142729066 1089.0      65536 336733606 2569.1
```

Now we carry out hierarchical clustering with the TOM matrix. Branches of the resulting clustering tree will be used to define gene modules.

```
hierTOM = hclust(as.dist(dissTOM),method="average");
par(mfrow=c(1,1))
plot(hierTOM,labels=F)
```



By our definition, modules correspond to branches of the tree. The function modulecolor2 colors each gene by the branches that result from choosing a particular height cut-off. GREY IS RESERVED to color genes that are not part of any module. We only consider modules that contain at least 125 genes.

```
colorh2=as.character(modulecolor2(hierTOM,h1=.75, minsize1=125))
```

The following table shows that there is fairly high agreement between the soft and the hard module assignments

```
table(colorh1,colorh2)
```

```
##            colorh2
## colorh1     blue brown green grey turquoise yellow
##   blue       457     0     0  149         0      0
##   brown        0   159     0   26         0      0
##   green        0     0     0    5         0    131
##   grey        68     7     0 1321        15      7
##   turquoise    0     1     0  278       817     16
```

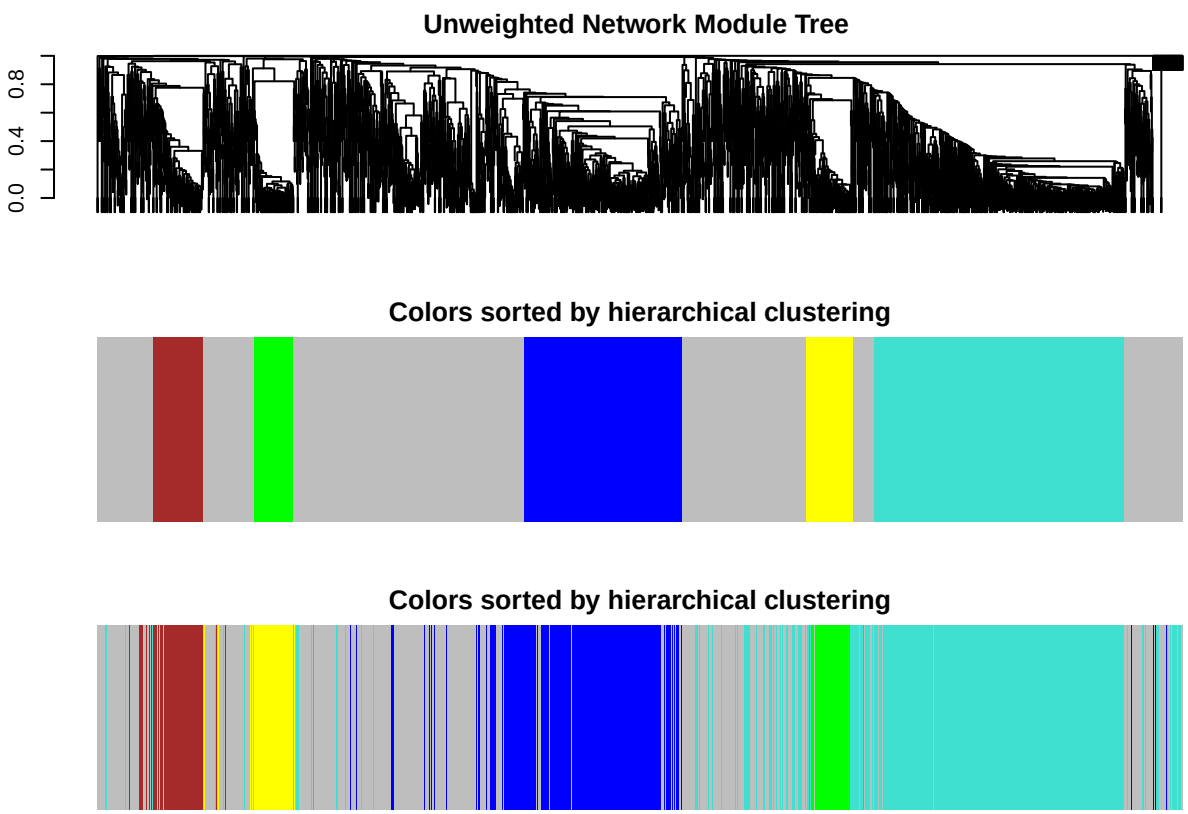
```
##   yellow       0     0   132   11         0      0
```

```
#Rand index to measure agreement between the clusterings
randIndex(table(colorh1,colorh2))
```

```
## [1] 0.5727022
```

Note that the brown module in the weighted network (colorh1) is a little bit larger than the corresponding module in the unweighted network. But the point is that it is highly preserved. Since this module is of biological interest, the good news is that the biological findings are robust with respect to the network construction method as long as the scale free topology criterion is used to construct the network.

```
par(mfrow=c(3,1), mar=c(2,2,2,1))
plot(hierTOM, main="Unweighted Network Module Tree ", labels=F, xlab="",
sub="");
hclustplot1(hierTOM, colorh2, main="Colored by Unweighted modules")
hclustplot1(hierTOM, colorh1, main="Colored by Weighted modules")
```

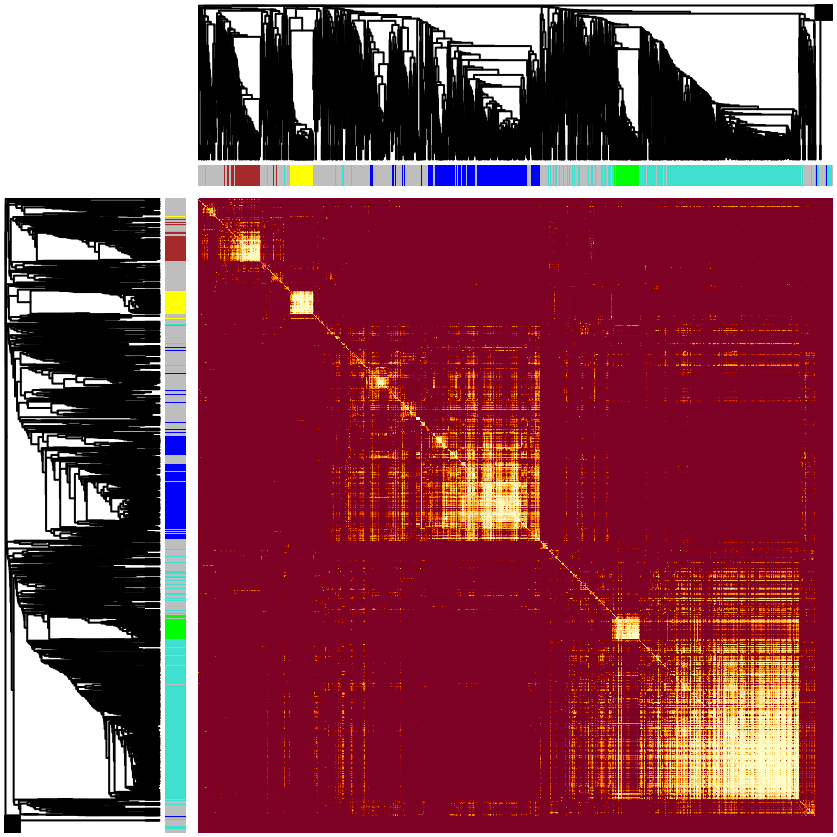


An alternative view of this is the so called TOM plot that is generated by the function TOMplot

Inputs: TOM distance measure, hierarchical (hclust) object, color

Here we use the unweighted module tree but color it by the weighted modules.

```
TOMplot(dissTOM , hierTOM, as.character(datSummary$color1[restConnectivity]))
```

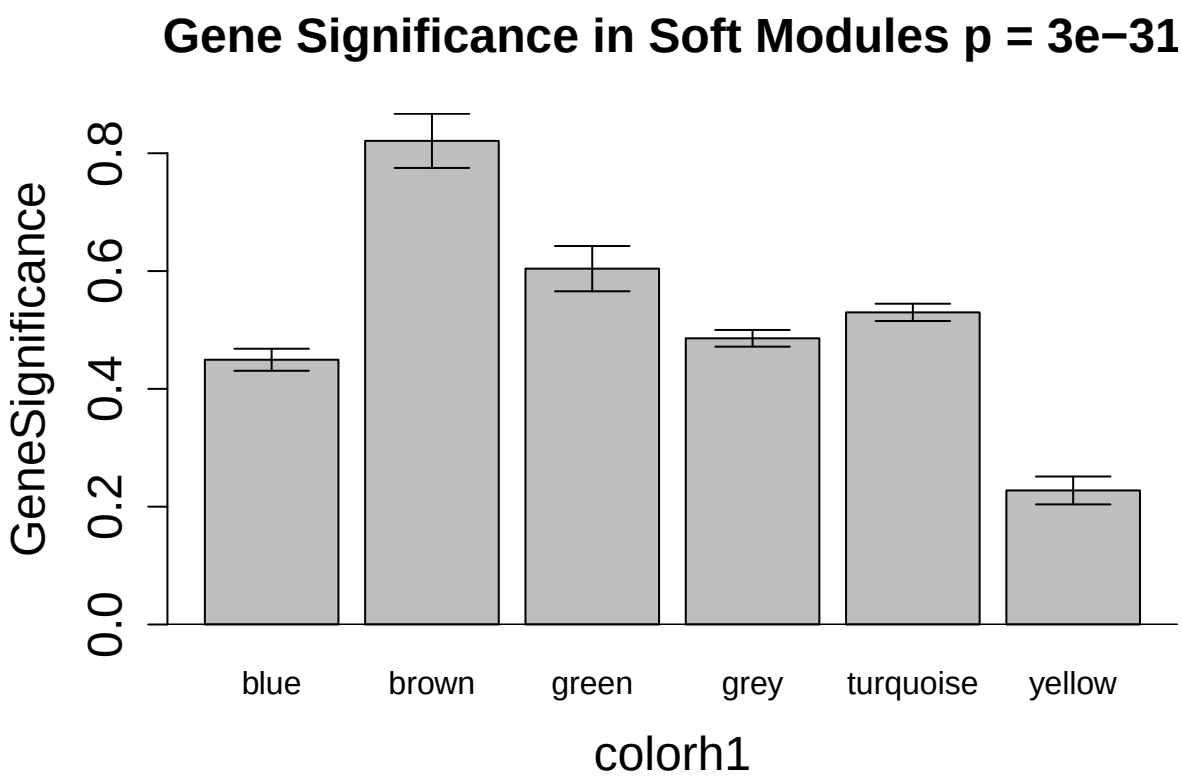


```
gc()
```

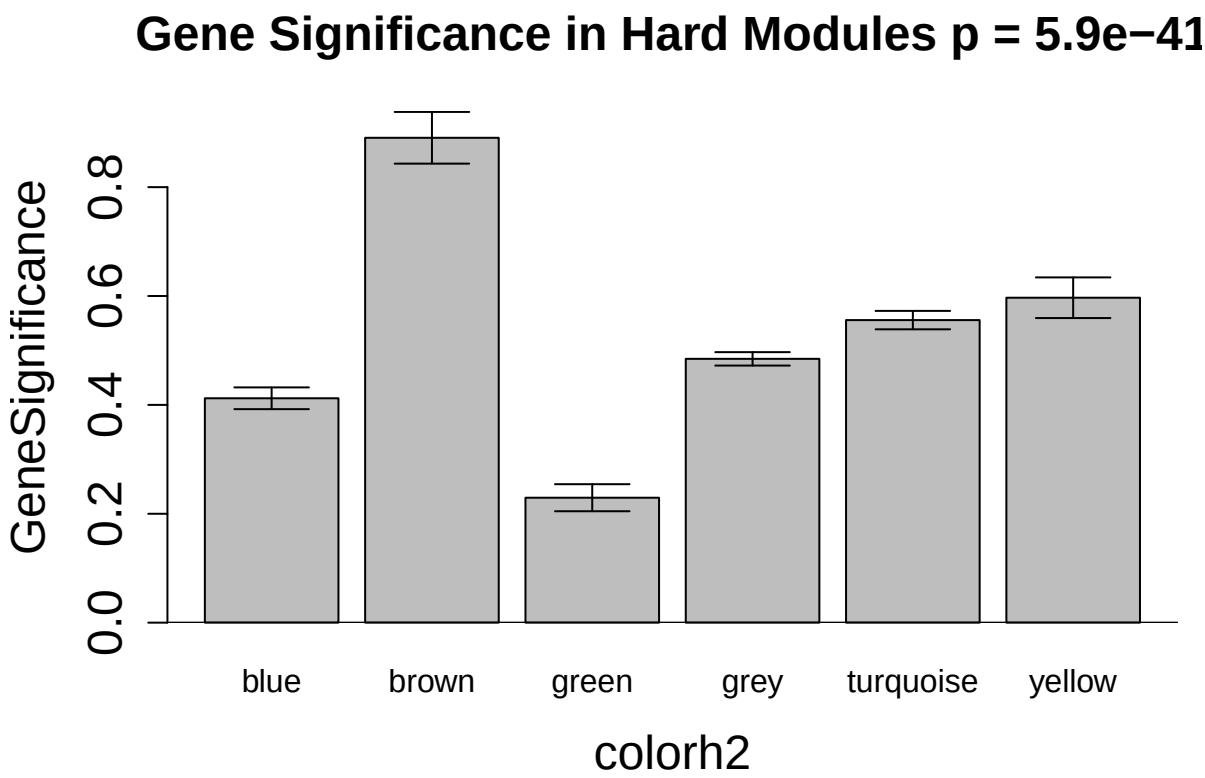
```
##            used  (Mb) gc trigger   (Mb) limit (Mb)  max used   (Mb)
## Ncells  5743011 306.8    8356247  446.3         NA   8356247  446.3
## Vcells 88095659 672.2  142729066 1089.0      65536 336733606 2569.1
```

Comment: module assignment is highly preserved.

```
verboseBarplot(GeneSignificance,colorh1,main="Gene Significance in Soft Modules")
```




```
verboseBarplot(GeneSignificance,colorh2,main="Gene Significance in Hard Modules")
```

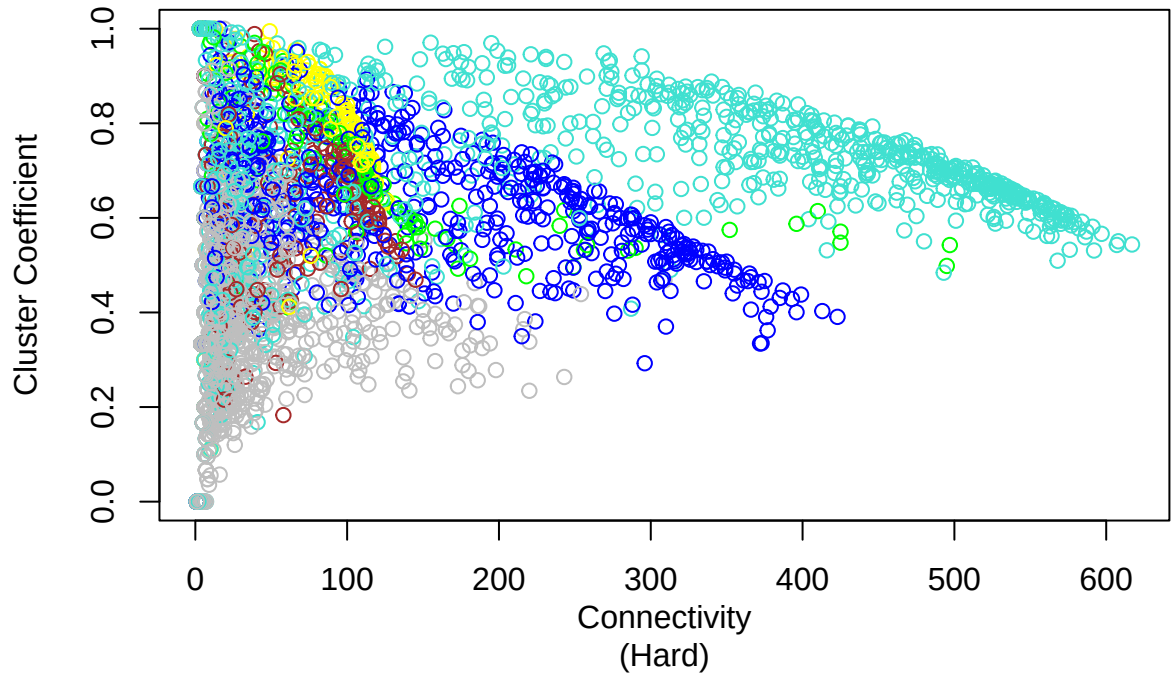


Now we compute the cluster coefficient. Since this is computationally intensive, we recommend to skip it.

```
CC= clusterCoef(ADJ)
gc()
```

```
##            used  (Mb) gc trigger   (Mb) limit (Mb)  max used   (Mb)
## Ncells  4856014 259.4    8356247  446.3         NA   8356247  446.3
## Vcells 61120504 466.4  148890581 1136.0      65536 336733606 2569.1
```

```
plot(k,CC,col= as.character(datSummary$color1[restConnectivity]),xlab="Connectivity
(Hard)",ylab="Cluster Coefficient")
```

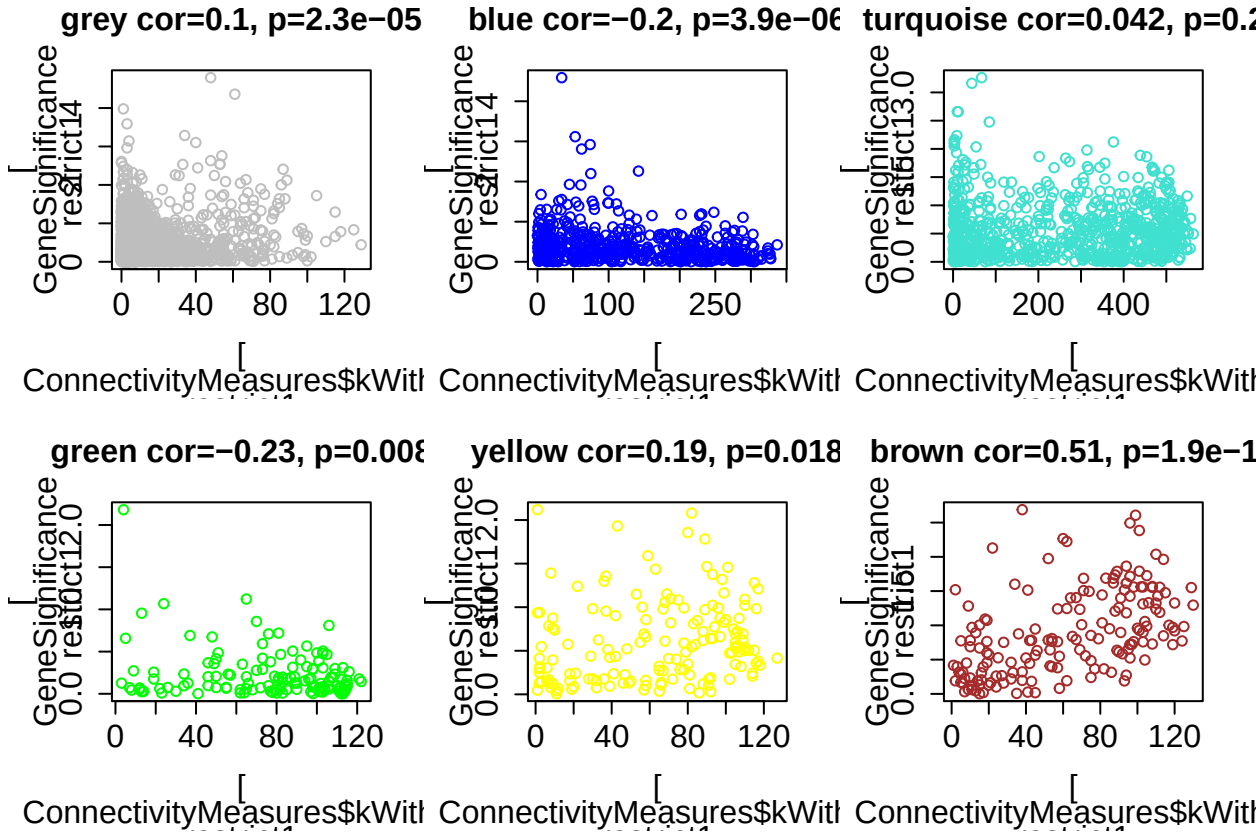


Comment: for unweighted networks there is an inverse relationship between cluster coefficient and connectivity. This is different from the case of weighted networks. In our opinion, this inverse relationship is an artifact of hard thresholding, see Zhang and Horvath (2005).

Now we study how intramodule connectivity relates to gene significance

```
ConnectivityMeasures=intramodularConnectivity(ADJ,colorh2)
```

The following plots would show the gene significance vs intromodular connectivity

```
par(mfrow=c(2,3))
colorlevels=unique(colorh2)
whichmodule=colorlevels[[1]];restrict1=colorh2==whichmodule
verboseScatterplot(ConnectivityMeasures$kWithin[restrict1],
GeneSignificance[restrict1],col=colorh2[restrict1],main=whichmodule)
whichmodule= colorlevels[[2]];restrict1=colorh2==whichmodule
verboseScatterplot(ConnectivityMeasures$kWithin[restrict1],
GeneSignificance[restrict1],col=colorh2[restrict1],main=whichmodule)
whichmodule= colorlevels[[3]];restrict1=colorh2==whichmodule
verboseScatterplot(ConnectivityMeasures$kWithin[restrict1],
GeneSignificance[restrict1],col=colorh2[restrict1],main=whichmodule)
whichmodule= colorlevels[[4]];restrict1=colorh2==whichmodule
verboseScatterplot(ConnectivityMeasures$kWithin[restrict1],
GeneSignificance[restrict1],col=colorh2[restrict1],main=whichmodule)
whichmodule= colorlevels[[5]];restrict1=colorh2==whichmodule
verboseScatterplot(ConnectivityMeasures$kWithin[restrict1],
GeneSignificance[restrict1],col=colorh2[restrict1],main=whichmodule)
whichmodule= colorlevels[[6]];restrict1=colorh2==whichmodule
```

```
verboseScatterplot(ConnectivityMeasures$kWithin[restrict1],
GeneSignificance[restrict1],col=colorh2[restrict1],main=whichmodule)
```