**Supplementary material**

Table of Contents

**Supplementary Table S1.** Comparing cohort of current study with total cohort of UPBEAT 2

**Supplementary Table S2.** Linear regression coefficients for folate and ratios for vitamin B12 according to maternal characteristics 3
**Supplementary Table S3.** Complete list of adjusted regression coefficients for every CG4

**Supplementary Table S1.** Comparing cohort of current study with total cohort of UPBEAT

|  |  |  |  |
| --- | --- | --- | --- |
|  | All women in current study (n=951) | Women participating in UPBEAT that did not provide blood samples (n=603) | *p*† |
| Age (years) | 30.7 ± 5.5  | 30.1 ± 5.6 | 0.022 |
| BMI at first study visit (kg/m2) | 35.2 (32.8-38.8) | 34.9 (32.8-38.3) | 0.78‡ |
| Parity |  |  | 0.16 |
|  Nulliparous | 426 (44.8%) | 248 (41.1%) |  |
|  Multiparous  | 525 (55.2%) | 355 (58.8%) |  |
| Ethnicity |  |  | <0.001 |
|  White | 634 (66.7%) | 339 (56.2%) |  |
|  Black | 203 (21.4%) | 198 (32.8%) |  |
|  Asian | 66 (6.9%) | 29 (4.8%) |  |
|  Other | 48 (5.1%) | 37 (6.1%) |  |
| Educational attainment |  |  | 0.017 |
|  None, GCSE or vocational qualification | 400 (42.1%) | 291 (48.3%) |  |
|  A-level, first- or higher  degree | 551 (57.9%) | 312 (51.7%) |  |
| Index of multiple deprivation§ |  | 0.034 |
|  1 (least deprived) | 50 (5.3%) |  15 (2.5%) |  |
|  2 | 70 (7.4%) |  33 (5.5%) |  |
|  3 | 109 (11.5%) |  68 (11.3%) |  |
|  4 | 325 (34.3%) |  208 (34.7%) |  |
|  5 (most deprived) | 394 (41.6%) |  276 (46%) |  |
| Smoking |  |  | 0.055 |
|  Current | 65 (6.8%) | 43 (7.1%) |  |
|  Ex-smoker | 233 (25.5%) | 180 (29.9%) |  |
|  Never | 653 (68.7%) | 380 (63.0%) |  |
| Treatment allocation |   |   | 0.058 |
|     Standard care | 490 (51.5%) | 281 (46.6%) |   |
|     Intervention | 461 (48.5%) | 322 (53.4%) |   |

Data presented as mean ± standard deviation (SD) or median interquartile range (IQR) for continuous variables or number (%) for categorial variables. Abbreviations: UK pregnancies better eating and activity trial (UPBEAT), body mass index (BMI), general certificate of secondary education (GCSE); † Unpaired t-test for continuous data and Chi-square test for categorial data was used for comparing all women in the current study with women participating in UPBEAT that did not provide blood samples; ‡ Mann-Whitney U test; § n=948 for women in current study and n=600 for women participating in UPBEAT that did not provide blood samples.

**Supplementary Table S2.** Linear regression coefficients for folate and ratios for vitamin B12 according to maternal characteristics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | n | Serum folateCoefficient (95% CI) | *p* | Serum vitamin B12†Ratio (95% CI) | *p* |
| Age (years) |  |  |  |  |  |
|  ≤24.9 | 131 | Reference | - |  |  |
|  25.0-34.9 | 559 | 2.48 (1.57, 3.38) ‡ | <0.001‡ | 1.08 (1.00, 1.18) ‡ | 0.058‡  |
|  ≥35 | 261 | 3.77 (2.75, 4.79) ‡ | <0.001‡ | 1.12 (1.02, 1.23) ‡ | 0.014‡ |
| BMI at first study visit (kg/m2) |  |  |  |  |
|  30-34.9 | 461 | Reference | - |  |  |
|  35-39.9 | 309 | -0.70 (-1.36, -0.04) ‡ | 0.037‡ | 0.93 (0.88, 0.99) ‡ | 0.021‡ |
|  ≥40 | 181 | -0.64 (-1.43, 0.15) ‡ | 0.113‡ | 0.90 (0.84, 0.97) ‡ | 0.006‡ |
| Parity |  |  |  |  |  |
|  Nulliparous | 426 | 2.45 (1.82, 3.08) ‡ | <0.001‡ | 0.98 (0.92, 1.03) | 0.40 |
|  Multiparous | 525 | Reference | - |  |  |
| Ethnicity |  |  |  |  |  |
|  White | 634 | Reference | - |  |  |
|  Black | 203 | -0.64 (-1.42, 0.14) | 0.11 | 1.50 (1.40, 1.61) ‡ | <0.001‡ |
|  Asian | 66 | 0.07 (-1.18, 1.32) | 0.91 | 0.95 (0.86, 1.06) | 0.39 |
|  Other | 48 | 0.58 (-0.87, 2.03) | 0.43 | 1.14 (1.01, 1.29) ‡ | 0.035‡ |
| Educational attainment |  |  |  |  |  |
|  None, GCSE or vocational qualification | 400 | -0.99 (-1.61, -0.37) ‡ | 0.002‡ | 0.91 (0.86, 0.96) ‡ | 0.001‡ |
|  A-level, first- or higher  degree | 551 | Reference | - |  |  |
| Index of multiple deprivation |  |  |  |  |
|  1 (least deprived) | 50 | 0.55 (-0.82, 1.93) ‡ | 0.43‡ | 1.01 (0.88, 1.16) | 0.87 |
|  2 | 70 | 0.92 (-0.33, 2.17) | 0.15 | 0.99 (0.88, 1.12) | 0.90 |
|  3 | 109 | 0.94 (-0.10, 1.98) | 0.07 | 1.01 (0.92, 1.12) | 0.77 |
|  4 | 325 | 0.56 (-0.17, 1.28) | 0.13 | 1.05 (0.98, 1.12) | 0.18 |
|  5 (most deprived) | 394 | Reference | - |  |  |
| Smoking |  |  |  |  |  |
|  Never | 653 | Reference | - |  |  |
|  Ex-smoker | 233 | -0.34 (-1.07, 0.39) | 0.36 | 0.99 (0.93, 1.06) ‡ | 0.83 ‡ |
|  Current | 65 | -2.31 (-3.51, -1.11) ‡ | <0.001‡ | 0.87 (0.78, 0.97) ‡ | 0.013‡ |
| Treatment allocation |   |   |   |   |   |
|     Standard care | 490 | Reference | - |  |  |
|     Intervention | 461 | 0.05 (-0.58, 0.67) | 0.89 | 0.99 (0.93, 1.05) | 0.64 |

CI, confidence interval; BMI, body mass index; GCSE, general certificate of secondary education. † data was logged for statistical analysis; ‡ adjusted for maternal age, ethnicity, parity, cigarette smoking, maternal BMI, education, level of deprivation and treatment allocation.

**Supplementary Table S3.** Complete list of adjusted regression coefficients for every Cytosine-Guanine (CG)

|  |  |  |
| --- | --- | --- |
| CG | Folate | Vitamin B12 |
|  | Estimated change in methylation | *p* value  | Estimated change in methylation | *p* value  |
| cg19736654  | -.0000296 | .869146  | .0008692  | .488356 |
| cg04322572  | -.0003562  | .5045547  | .0021885  | .5572258 |
| cg01783894  | .0004552  | .2489975  | .000104  | .9699323 |
| cg23948843  | -.0002295  | .4043204  | -.0028375  | .1395742 |
| cg15029631  | .0005872  | .2352845  | -.00248  | .4731121 |
| cg04632887  | .0001418  | .7279804  | .0020007  | .4822792 |
| cg19227924  | -5.23e-06  | .9801055  | .0022324  | .1268598 |
| cg13912311  | -.0005012  | .1804834  | -.0004888  | .8518 |
| cg04188920  | -.0004113  | .3893627  | -.0023116  | .4885389 |
| cg19497444  | -.0001408  | .8023066  | -.0019018  | .6282762 |
| cg02757970  | .0000342  | .9400346  | .0038138  | .2297024 |
| cg27565899  | .0005408  | .0194279  | .0019268  | .2341389 |
| cg20454518  | .0001202  | .7741959  | .0006027  | .8368791 |
| cg09357276  | .0001243  | .6757392  | -.0003613  | .8617904 |
| cg19592472  | .0000186  | .9699903  | .0033437  | .3319069 |
| cg15015340  | -.0001524  | .5558845  | .000569  | .7529499 |
| cg04347477  | .0015261  | .0122558  | -.0004902  | .9086003 |
| cg10573018  | -.0001956  | .3298699  | .0001924  | .8908834 |
| cg03336167  | -.0002127  | .3701715  | .0003912  | .8134984 |
| cg13874780  | -.0001456  | .6238373  | .0013162  | .5256042 |
| cg02001279  | .0007089  | .088228  | -.0036213  | .2127461 |
| cg06744585  | -.0004091  | .1982457  | -.0020072  | .3662551 |
| cg08326019  | -.0005388  | .458971  | .0044138  | .3850308 |
| cg19617213  | .0003469  | .4400268  | -.0022775  | .4679457 |
| cg11666770  | .0000728  | .7800121  | -.0000382  | .9832731 |
| cg05852395  | .0000685  | .743085  | .0000766  | .9581704 |
| cg02158978  | .0004352  | .1709364  | .0000813  | .9708091 |
| cg22805485  | -.0002078  | .6254255  | .0023828  | .4226967 |
| cg17427926  | -.0002511  | .2042948  | -.0013396  | .3323368 |
| cg26910511  | -.0000207  | .9601787  | .0024606  | .3941655 |
| cg04345034  | .0002532  | .3263855  | .0036078  | .0449492 |
| cg14455176  | -.0003023  | .1989801  | .0023031  | .161165 |
| cg22163280  | -.0000857  | .664623  | .0003348  | .8084426 |
| cg14295482  | -.0000795  | .7575527  | .0008876  | .6217493 |
| cg21201401  | .0000621  | .8411303  | .0004525  | .8343415 |
| cg10201370  | -.0002059  | .2836486  | -.000781  | .5604516 |
| cg23647554  | .0002422  | .5124304  | .0000383  | .9881836 |
| cg13066703  | .0002235  | .5273839  | -.0008394  | .7339813 |
| cg02996583  | -.0004356  | .3145033  | -.0013957  | .6446307 |
| cg20493718  | -.0002341  | .4331323  | .000928  | .6564624 |
| cg14689317  | -.0000156  | .9275684  | -.00018  | .8809801 |
| cg12582317  | -.0003236  | .4645945  | .0008065  | .7941868 |
| cg27485596  | .0004623  | .4282556  | .0055834  | .1704441 |
| cg24159436  | .0006687  | .0606807  | .0014838  | .5518651 |
| cg20513976  | .0004895  | .04775  | .0013125  | .4480493 |
| cg24524285  | -.0003872  | .3117735  | .0070328  | .0083161 |
| cg23925513  | -.0001934  | .3554412  | .0008088  | .5801962 |
| cg03497652  | -.0004905  | .1453197  | -.0040034  | .0886436 |
| cg14625581  | -.0003908  | .2165563  | .0011997  | .587284 |
| cg15445952  | .0004367  | .2877663  | .0002451  | .9319519 |
| cg07262247  | -.0004209  | .1055522  | -.0006008  | .7411399 |
| cg14321492  | -.0000227  | .9521838  | -.0013471  | .6109511 |
| cg26240885  | -.0002618  | .6887911  | -.0054121  | .2355924 |
| cg05960182  | .0001546  | .6399909  | -.0000434  | .9849905 |
| cg19816586  | .0003506  | .458704  | .0004828  | .8838798 |
| cg12373600  | -.0002144  | .3024815  | -.0000135  | .9926016 |
| cg17542517  | .0004837  | .0710239  | -.0014567  | .4369388 |
| cg25715278  | .0001757  | .6925935  | -.0025873  | .4042863 |
| cg09611279  | .0009577  | .0356384  | .0001698  | .9575569 |
| cg24181728  | .0002914  | .5253981  | -.0028199  | .3787735 |
| cg19175928  | .0002528  | .4553597  | -.0016871  | .4756654 |
| cg02646480  | -.0000984  | .704546  | .0008933  | .6220883 |
| cg22504849  | .000138  | .5305799  | -.0024903  | .1047716 |
| cg19750657  | .0002865  | .4608009  | -.0026385  | .3306159 |
| cg15756156  | -.0003833  | .2507787  | -.001344  | .5644609 |
| cg26077811  | -.0004833  | .1317902  | -.0008152  | .7161788 |
| cg12999836  | .0002941  | .4787562  | -.003812  | .1884743 |
| cg13932501  | .0003548  | .3977278  | .0008658  | .7677076 |
| cg01786973  | -.0002878  | .6239425  | -.0015973  | .6968839 |
| cg09179277  | .0011538  | .0479268  | .0055072  | .176907 |
| cg09964698  | -.0005961  | .1595979  | -.0052734  | .0746668 |
| cg04414297  | .0006204  | .1476295  | .0003996  | .8938825 |
| cg24215459  | -.0003305  | .2060543  | -.0018298  | .3162844 |
| cg25255847  | .0003172  | .4617958  | .0008114  | .7876161 |
| cg24758545  | -.0001887  | .4532994  | -.0019805  | .2596745 |
| cg23182003  | .0001085  | .8096425  | .0016038  | .610112 |
| cg22502704  | .0001715  | .6245225  | .0022852  | .3503246 |
| cg05339856  | .0000886  | .6038583  | -.0010574  | .3753341 |
| cg09207960  | .000161  | .573799  | -.0004864  | .8078035 |
| cg01583875  | .000649  | .1175326  | .0025041  | .3875981 |
| cg23356411  | .0000696  | .8333723  | -.0017222  | .4558321 |
| cg01470610  | .0003186  | .2246592  | -.0018693  | .3078273 |
| cg02493508  | .0002544  | .707372  | -.0045368  | .3377042 |
| cg27005487  | -.0001628  | .5851414  | .0003818  | .8546321 |
| cg11129439  | -.0000968  | .6696647  | -.0024708  | .1187291 |
| cg16289642  | .0000402  | .9284338  | -.0000609  | .984453 |
| cg08565703  | .000184  | .5006418  | -.0025037  | .1891713 |
| cg16993186  | -.000244  | .422376  | -.0011482  | .588937 |
| cg25230907  | .0000493  | .8554512  | .0011518  | .5423175 |
| cg00866476  | .0004211  | .176983  | .0004587  | .8333743 |
| cg02522196  | .0001974  | .2934674  | -.0028664  | .0286633 |
| cg00052692  | .0010495  | .0501928  | .0055452  | .1388046 |
| cg06150841  | .000058  | .8100043  | -.0015623  | .3534709 |
| cg17100197  | .0005287  | .2196197  | -.0014533  | .6292483 |
| cg06791426  | -.000029  | .9322254  | -.0027002  | .2557696 |
| cg20622131  | -.0001002  | .6452299  | -.0009381  | .5371736 |
| cg19118972  | -.0002387  | .3584161  | -.0025809  | .154792 |
| cg13586051  | .0001607  | .6031661  | .0005013  | .8163996 |
| cg09527904  | -.0000953  | .7637293  | -.0026418  | .232509 |
| cg08787832  | -.0004627  | .1119234  | -.0013099  | .5198644 |
| cg07904429  | .0005264  | .2674238  | -.0003654  | .9122975 |
| cg24942683  | .0002973  | .4826853  | -.0011394  | .7001024 |
| cg14681242  | -.0000431  | .8967022  | -.0027967  | .2276043 |
| cg19155346  | -.0002423  | .4936787  | -.0011226  | .6499031 |
| cg15774976  | .000394  | .3537175  | .0047368  | .1101369 |
| cg08735211  | -.0001096  | .8386678  | -.0009732  | .7957332 |
| cg21404980  | .0006277  | .0776176  | .0015607  | .5304091 |
| cg01537248  | .0000149  | .9372138  | -.0012098  | .3598699 |
| cg13554864  | .0000476  | .884857  | -.003775  | .0993817 |
| cg06350844  | .0000669  | .8427492  | .0008253  | .7259849 |
| cg00327947  | .0004001  | .2289866  | .0036796  | .1129465 |
| cg26052321  | .000112  | .7061628  | -.0030832  | .1369601 |
| cg24916358  | .0001747  | .6087918  | .0000925  | .9690571 |
| cg27295118  | .0005852  | .3952812  | .0008141  | .8655798 |
| cg10688057  | .0002648  | .3895615  | .0002259  | .9163274 |
| cg12684547  | .0008541  | .0452257  | .0021648  | .4681868 |
| cg04286826  | .0003172  | .4204369  | -.0011378  | .6791101 |
| cg08054094  | .0002772  | .4588293  | -.0050286  | .0539901 |
| cg12713583  | .0007263  | .2548603  | -.0038965  | .3819087 |
| cg06915331  | .0001406  | .6784453  | .0003908  | .8689787 |
| cg14460183  | .0003688  | .1073042  | -.0009509  | .552595 |
| cg13687834  | .0007804  | .099551  | .0010362  | .7545161 |
| cg00382138  | .0003376  | .5404744  | -.0001985  | .9589061 |
| cg19777352  | .0003102  | .3302709  | .0019621  | .3780134 |
| cg04852824  | .0002501  | .3921339  | .0028193  | .1669959 |
| cg18641655  | .0000979  | .7569221  | -.0030259  | .1703254 |
| cg21657580  | -.0006264  | .1580418  | -.005833  | .0596191 |
| cg17738521 | -.0002735  | .4097249  | -.0036731  | .1126155 |
| cg14868453  | -.0002756  | .3687484  | -.0025899  | .2263696 |
| cg03353442  | .0001969  | .6166901  | -.0016864  | .5393044 |
| cg18788940  | -.0001676  | .641228  | -.0057947  | .0207144 |
| cg02609480  | -9.61e-06  | .9786713  | -.0013508  | .5905605 |
| cg21363233  | .0006529  | .2117218  | -.0021539  | .5555407 |
| cg08025812  | .0006341  | .0359732  | -.0009748  | .6450604 |
| cg13954212  | .000044  | .8717805  | -.0040679  | .0322767 |
| cg09827745  | .0004783  | .2002703  | -.003361  | .1975801 |
| cg04488894  | .0003435  | .5440474  | -.0009478  | .810627 |
| cg03566881  | .0004805  | .046141  | .0005737  | .7337003 |
| cg07283598  | -.0001427  | .5914779  | -.0011924  | .5208446 |
| cg19360969  | -.000342  | .3369715  | -.0009098  | .7147313 |
| cg14964970  | .0001008  | .7441505  | -.0027255  | .2059167 |
| cg14267542  | .0006123  | .0181619  | .0012916  | .4767224 |
| cg06357993  | .0003863  | .0968306  | -.0008335  | .6084369 |
| cg14214856  | .0004894  | .1671729  | -.0016775  | .4981091 |
| cg04037585  | -.0005937  | .2035444  | -.0029831  | .3605361 |
| cg12732215  | .0000272  | .9472734  | .0023463  | .414004 |
| cg17344149  | .0001971  | .5948867  | .0001362  | .958023 |
| cg17417675  | .0008108  | .1037164  | .0024422  | .4833603 |
| cg01135863  | .000151  | .6601309  | -.0000205  | .9931779 |
| cg01824466  | -.0002119  | .6572042  | .0014027  | .6740239 |
| cg23355492  | -.0000908  | .8052282  | -.0039035  | .1287937 |
| cg11646706  | .0005584  | .3298764  | -.0025486  | .5243859 |
| cg11404658  | .0001862  | .3587228  | .0018033  | .2029883 |
| cg09143713  | .0007542  | .0373052  | -.0005981  | .8134849 |
| cg10972127  | -.0000617  | .8380598  | -.0016661  | .4293904 |
| cg00289969  | -.0002948  | .2953655  | -.0009704  | .6220375 |
| cg00506306  | .0001341  | .8083869  | -.0049871  | .1962324 |
| cg23007418  | -.0002969  | .2978371  | -.0002035  | .9186773 |
| cg00743641  | -.0002322  | .4512015  | .0001247  | .953815 |
| cg09162537  | -.0006778  | .0693365  | -.0063356  | .014936 |
| cg03750061  | .0004182  | .20977  | .0021911  | .346944 |
| cg25676030  | -.000094  | .8150594  | -.0006024  | .8301116 |
| cg10726445  | -.0001637  | .6502714  | .000257  | .9188243 |
| cg05211189  | .0006671  | .1934876  | .0027066  | .4502945 |
| cg08419476  | .000418  | .4515289  | -.0002627  | .9459915 |
| cg11864558  | -.0002264  | .559766  | -.0028014  | .3013161 |
| cg06508940  | .0006962  | .1782642  | .0011108  | .7586619 |
| cg08922737  | .0001922  | .6101419  | -.0005239  | .8422558 |
| cg03038262  | -.0003753  | .2138709  | -.0005442  | .7965122 |
| cg08398200  | .0000594  | .8814483  | -.0000646  | .9814694 |
| cg11457651  | .000238  | .394963  | -.0002547  | .8963093 |
| cg12197666  | .0001165  | .7670876  | -.001851  | .5002475 |
| cg14656043  | -.0002358  | .5487489  | -.002244  | .413833 |
| cg20393308  | -.000256  | .5631444  | -.0081404  | .0082513 |
| cg10501189  | .0003071  | .3950936  | -.000867  | .731126 |
| cg03245099  | .0005025  | .3866504  | -.0009704  | .8108769 |
| cg07738730  | .0001862  | .7250966  | .0012658  | .7321983 |
| cg05988980  | .0001126  | .7246972  | -.0025764  | .2484428 |
| cg06233873  | .0002422  | .7229501  | -.0001765  | .9704962 |
| cg09352285  | .0004744  | .150797  | -.0006944  | .7635781 |
| cg13750140  | .0005845  | .089467  | -.0001706  | .9435092 |
| cg05961022  | .0001909  | .5533973  | -.0027747  | .2172132 |
| cg05325218  | .0002751  | .3015639  | -.001577  | .3965082 |
| cg06653796  | .0001984  | .5082316  | -.0003856  | .8539572 |
| cg00766824  | .0003072  | .4665375  | -.0032717  | .2667226 |
| cg04118945  | .001187  | .0938491  | -.0031419  | .5259557 |
| cg12915036  | .0002061  | .6329777  | -.0019424  | .5193526 |
| cg15565234  | -.0001462  | .542174  | -.0032955  | .0486856 |
| cg02794319  | .0002646  | .5803384  | .0037222  | .2652659 |
| cg19264571  | .0001913  | .678443  | .0025607  | .4268489 |
| cg04174091  | -.0002932  | .3580133  | .003846  | .0839309 |
| cg20782117  | -.0001653  | .7425694  | -.0016345  | .6418884 |
| cg11166877  | .0003236  | .1215018  | .0004057  | .7812536 |
| cg19913563  | .0002519  | .6223043  | -.0031417  | .3789774 |
| cg18183624  | -.0000992  | .8635219  | -.0005204  | .8972861 |
| cg10153349  | -.000306  | .3842132  | .0011888  | .6284518 |
| cg03048432  | -.0001371  | .765836  | .0044831  | .1627516 |
| cg21002460  | -.0002481  | .495794  | -.0026749  | .292882 |
| cg20512303  | -.0003257  | .248971  | .0001039  | .9580216 |
| cg01505367  | -.0002394  | .3245076  | -.0007906  | .6414955 |
| cg05493528  | .0000889  | .8688816  | -.0025322  | .5006097 |
| cg09673812  | .0003121  | .4420437  | .0031654  | .2641397 |
| cg07383652  | .0002058  | .6584314  | -.0030853  | .3424086 |
| cg13897325  | -.000025  | .8891577  | -.0020536  | .1005069 |
| cg10248470  | -.0001819  | .6017563  | -.0001787  | .9414958 |
| cg22434421  | -.0000995  | .732565  | -.0025841  | .2035657 |
| cg26893515  | .0001407  | .6855627  | -.0035612  | .1420178 |
| cg17945422  | -.0003195  | .5134445  | -.0040525  | .2350741 |
| cg20858400  | .00039  | .2758909  | -.0008221  | .7423881 |
| cg12434846  | .0001285  | .7348093  | -.001553  | .5577566 |
| cg03425812  | -.0000424  | .9139179  | -.000632  | .8174265 |
| cg09565444  | .0003599  | .264466  | .0005288  | .8145295 |
| cg08255481  | .000042  | .8878242  | .0025165  | .2263056 |
| cg20258698  | -.0003823  | .4864123  | -.0013799  | .7190881 |
| cg00361159  | .0001113  | .7429475  | -.0001822  | .9387374 |
| cg23911696  | .0002269  | .4706205  | -.0007844  | .7210659 |
| cg05636663  | -.0006703  | .1174188  | -.0049952  | .094734 |
| cg19274030  | .0007663  | .1796027  | -.001738  | .6632648 |
| cg14377059  | .0001485  | .6533824  | -.0031874  | .1672806 |
| cg23461488  | -.0001937  | .4773032  | -.0011398  | .5495 |
| cg12635790  | .0001724  | .6485412  | -.0000142  | .9957056 |
| cg09361367  | .0002481  | .438325  | .0015978  | .4749207 |
| cg12148585  | .0006122  | .170646  | -.0028468  | .3618961 |
| cg16124934  | -.0000987  | .7291534  | .0029469  | .1384604 |
| cg09331651  | .0002159  | .665195  | -.0018796  | .5896026 |
| cg19590421  | -.0004687  | .1859012  | -.0009067  | .7143216 |
| cg15612266  | -.000173  | .6886535  | .0026725  | .3752906 |
| cg08403778  | -8.50e-06  | .9533535  | -.000281  | .781872 |
| cg09154880  | 8.09e-06  | .9780149  | -.0021685  | .2898325 |
| cg00948111  | -.0000899  | .8093293  | -.0044531  | .0864773 |
| cg10354154  | .0002552  | .5120516  | .0009899  | .7158024 |
| cg12205270  | -.0004882  | .2032888  | -.0009248  | .7302371 |
| cg08866634  | .000157  | .5987565  | -.0015192  | .4658127 |
| cg03892117  | -.0002808  | .4640732  | .0005419  | .8397434 |
| cg05351447  | .0000784  | .8316949  | -.0030959  | .2291857 |
| cg23380308  | .0001389  | .7055746  | .0006413  | .8027201 |
| cg26886572  | .0004198  | .3424113  | .0016648  | .5899339 |
| cg25551168  | .0002298  | .5555497  | .0018484  | .4972216 |
| cg12428797  | .0005517  | .2192856  | .0025002  | .4255867 |
| cg22411549  | .0004521  | .3427562  | -.0022562  | .4979365 |
| cg01673485  | .0002004  | .5859162  | .0020925  | .415306 |
| cg01586330  | .0002047  | .5190712  | -.0029066  | .1896205 |
| cg04567124  | -.0001228  | .64856  | -.0009527  | .6127477 |
| cg12595459  | .0002904  | .4008618  | -.0017703  | .4634987 |
| cg18728406  | .0000357  | .8882607  | .0011632  | .512633 |
| cg00166343  | -.0000135  | .9654996  | -.0017203  | .428802 |
| cg19193422  | -.0002809  | .4548594  | -.0018434  | .4824944 |
| cg07722523  | .0005349  | .1152169  | .0008381  | .7241129 |
| cg27555390  | -.0000391  | .8605928  | -.0011721  | .4512287 |
| cg21146761  | -.0002059  | .4176109  | -.0014034  | .4289199 |
| cg20143040  | .0003  | .51703  | -.0031431  | .3309051 |
| cg02863072  | .0004309  | .1950691  | .0008043  | .7293666 |
| cg10020892  | .000479  | .2154744  | -.0001298  | .9617146 |
| cg01110172  | -.0000822  | .7187212  | -.002529  | .1120108 |
| cg10394757  | -.0003659  | .1059075  | .0002978  | .8507537 |
| cg26931934  | -.0002202  | .5202223  | -.0003516  | .8831223 |
| cg21155834  | .0004738  | .0715895  | -.0007745  | .6737702 |
| cg06583577  | .000111  | .7544089  | -.0028452  | .2508029 |
| cg04714030  | .0000995  | .788777  | .0006147  | .8126068 |
| cg21986657  | .000094  | .8126891  | .0008093  | .7701795 |
| cg06687489  | .0010136  | .0126353  | .0030887  | .2778227 |
| cg22692692  | .0002176  | .6019336  | -.0020873  | .4737405 |
| cg20563452  | .0000771  | .7579516  | -.0014309  | .4126426 |
| cg18422587  | .0003336  | .4583748  | .0022333  | .4772548 |
| cg12417775  | -.0004248  | .1941066  | -.0044093  | .0534005 |
| cg25049210  | .0013115  | .0808421  | .0032925  | .5308704 |
| cg18158306  | .0002775  | .4127517  | -.0009923  | .6750883 |
| cg23539450  | -.0004565  | .051907  | -.0018761  | .2532858 |
| cg02256034  | .0000983  | .7445981  | .0013088  | .5346093 |
| cg16399664  | .0002126  | .5746724  | -.0026691  | .3128605 |
| cg21132686  | -.0001894  | .5486078  | -.0016311  | .4595854 |
| cg25900017  | -.0000622  | .7589005  | -.0012854  | .3637476 |
| cg15335617  | -8.41e-06  | .9709811  | -.001514  | .3483224 |
| cg03584098  | .0001023  | .6031182  | -.0007766  | .5718131 |
| cg26724018  | .0000626  | .8823107  | -.0026994  | .3604355 |
| cg13733403  | -.000067  | .7979501  | .0014323  | .433113 |
| cg13100918  | .0001078  | .5017458  | -.000422  | .7065454 |
| cg09150130  | .0005334  | .22006  | -.0003407  | .9107748 |
| cg19839221  | -.0000655  | .88631  | .0025358  | .4276741 |
| cg08450478  | -.0010494  | .0055441  | -.0057973  | .0284881 |
| cg22894232  | .0004253  | .425249  | .0013217  | .7227986 |
| cg06512316  | -.0006719  | .2153743  | -.0054961  | .1466604 |
| cg13136655  | -.000191  | .5441234  | -.0014034  | .5234308 |
| cg12758082  | .0000559  | .82296  | -.0027463  | .115353 |
| cg02753354  | .0000298  | .9181889  | -.0029035  | .1516387 |
| cg11960794  | .0004455  | .3470128  | -.0027589  | .4043946 |
| cg12331471  | .0000837  | .8309286  | -.0008574  | .7542619 |
| cg10582712  | -.0001298  | .7128574  | -.0011811  | .6316086 |
| cg10715311  | .0001761  | .3442117  | -.0005465  | .6743557 |
| cg02577793  | .000565  | .1930356  | .0001572  | .9586968 |
| cg04753874  | .0007856  | .091118  | .0014832  | .6483436 |
| cg21137446  | .0000321  | .9147111  | .0024847  | .2346012 |
| cg17133774  | .0005302  | .2042982  | -.0032396  | .2668749 |
| cg23913963  | .0001446  | .5554839  | .0017581  | .30445 |
| cg03208825  | -.0001708  | .6447901  | -.0028893  | .2638972 |
| cg07052063  | .0004072  | .2343694  | -.0005467  | .8192942 |
| cg16300030  | -.0000686  | .8588119  | -.0022579  | .4019032 |
| cg00464852  | .0008046  | .0425869  | .0010971  | .6927921 |
| cg22471376  | -.0001854  | .3422627  | -.002566  | .0594302 |
| cg25693349  | .0000692  | .85588  | .0022226  | .4031348 |
| cg18587063  | -.0000281  | .9370492  | -.0000792  | .9745274 |
| cg19396666  | .0006588  | .0513565  | .0026775  | .2575085 |
| cg23196549  | -.0007817  | .0594094  | -.0038402  | .1852509 |
| cg06060560  | .0001944  | .7093505  | .0014459  | .6913996 |
| cg02669047  | -.0000853  | .7296664  | -.0036325  | .0346834 |
| cg16098726  | -.0001044  | .7177907  | -.0009276  | .6458277 |
| cg26027170  | .0005881  | .0687972  | -.0012131  | .591526 |
| cg00541544  | .0001176  | .7137664  | .0008069  | .7185866 |
| cg08204891  | .000114  | .5146943  | -.00103  | .3993841 |
| cg09024656  | .0000385  | .9257842  | -.0039318  | .1722516 |
| cg03170737  | -.000604  | .2678185  | -.0107539  | .0045841 |
| cg01795822  | .0005151  | .250219  | -.0023539  | .4520656 |
| cg04972616  | -.0001402  | .3312564  | -.0005793  | .5655478 |
| cg00420390  | .0003307  | .1526244  | -.0004981  | .7579725 |
| cg17381396  | .0003223  | .3822813  | -.0029502  | .2520521 |
| cg04388124  | .0002687  | .4779612  | -.000148  | .9553927 |
| cg15064151  | .0000938  | .7694421  | .0000312  | .9888742 |
| cg07408552  | .0000948  | .7240915  | .0004074  | .8279818 |
| cg26974062  | .0013242  | .038535  | .0140244  | .0016518 |
| cg03124318  | -1.80e-06  | .9947363  | -.000731  | .700451 |
| cg03795071  | -.0000733  | .8519105  | -.0029472  | .2821218 |
| cg11439393  | .0002825  | .3748222  | -.001158  | .6025581 |
| cg12259187  | -.0000702  | .7997245  | -.0026722  | .1662871 |
| cg01899130  | -.0003813  | .619151  | -.0041164  | .4422205 |
| cg12517732  | .0002895  | .6390236  | -.0012071  | .7794549 |
| cg05661346  | -.0001456  | .6032487  | -.0001825  | .925699 |
| cg08354137  | -.0000807  | .7791997  | -.003976  | .0475793 |
| cg27633342  | .0004053  | .2266842  | .000644  | .7834057 |
| cg00723306  | .0001946  | .2435244  | -.0001756  | .8803372 |
| cg16063640  | .0001924  | .5204349  | .0001082  | .9587387 |
| cg24873093  | .0005777  | .129886  | .001095  | .6813963 |
| cg01083159  | .0003303  | .3617077  | .0008441  | .7386299 |
| cg02460440  | -.000203  | .576965  | .0014514  | .5678894 |
| cg23042221  | -.0001675  | .7353103  | -.0014785  | .6691327 |
| cg15961007  | .0000956  | .8127437  | .0019585  | .4868397 |
| cg05368730  | .0006393  | .0356528  | -.0042955  | .0433082 |
| cg05562612  | -.0001774  | .631273  | -.001696  | .5112817 |
| cg22907232  | -.000107  | .8291243  | -.0026659  | .4413239 |
| cg00482389  | -.0000424  | .7980829  | -.0009607  | .4065576 |
| cg11046734  | .0004853  | .210256  | -.002541  | .3477942 |
| cg02542684  | .0001697  | .5555516  | -.0013245  | .5100412 |
| cg18679416  | .0000532  | .8531211  | -.0017102  | .3939101 |
| cg13674249  | .0002604  | .2998364  | -.001121  | .5229942 |
| cg10461390  | .0008137  | .1866711  | -.0009554  | .82446 |
| cg27455061  | .0000747  | .6115124  | -.0000212  | .9835265 |
| cg24676398  | .0006005  | .1125317  | .0010566  | .68968 |
| cg08236655  | .0000541  | .8783429  | -.0024314  | .3239618 |
| cg08576185  | .0004328  | .3069734  | .0020556  | .4873983 |
| cg25368836  | -.000589  | .0761946  | -.0017148  | .4604152 |
| cg16843099  | -.0002854  | .4644079  | .0002254  | .9340878 |
| cg17680767  | .000043  | .9060227  | -.0019256  | .449044 |
| cg14883541  | .0003278  | .1552693  | -.0019506  | .2260437 |
| cg14436379  | .0003716  | .4250033  | -.0003961  | .9031224 |
| cg19240637  | .0003502  | .3065627  | -.0027651  | .2476416 |
| cg25017876  | .0004473  | .4122405  | -.0009961  | .7938375 |
| cg16705546  | .0004456  | .3156369  | .0003292  | .9155082 |
| cg06151074  | .0003212  | .2322275  | .0006186  | .742031 |
| cg08356855  | -.0000118  | .968923  | .0006269  | .7667546 |
| cg26700386  | -.0000896  | .7253793  | -.0030241  | .0891795 |
| cg08951931  | .0000922  | .7732497  | -.0018406  | .4100023 |
| cg01601105  | .0001228  | .6307522  | -.0016723  | .3483768 |
| cg12405088  | .0002959  | .6313249  | -.0029441  | .4942462 |
| cg21640060  | .0005042  | .2713066  | -.0028017  | .3815659 |
| cg18137347  | .0006832  | .129353  | -.0029103  | .3553004 |
| cg15031003  | .0003653  | .182785  | -.0019002  | .3213228 |
| cg24351658  | -.0000232  | .910064  | -.0012771  | .3730591 |
| cg13492133  | -.0002111  | .6452225  | -.0023312  | .4664751 |
| cg01895805  | -.0001972  | .5401564  | .0001213  | .9569798 |
| cg01618988  | -.0005975  | .2115325  | -.0114668  | .0005571 |
| cg26134300  | .0007717  | .1645125  | -.0043029  | .2672718 |
| cg09530217  | -.0002048  | .7002442  | -.003816  | .3041443 |
| cg25586410  | .0008049  | .0757391  | -.0025211  | .4263683 |
| cg21180953  | .0001449  | .7335815  | -.0046123  | .1204657 |
| cg07878065  | -.0003853  | .2102193  | -.0027128  | .2065887 |
| cg04727199  | .0000323  | .9507363  | .0023381  | .5220928 |
| cg21710324  | .0001346  | .5299111  | -.0009807  | .5122079 |
| cg13327844  | .0002938  | .5119887  | -.0011061  | .7237885 |
| cg21945188  | -.0000149  | .9746877  | -.0028211  | .3882319 |
| cg00717259  | -.0002081  | .5768769  | -.0038713  | .136868 |
| cg23750151  | .0005719  | .1617917  | .0017196  | .5472665 |
| cg16009632  | .0001346  | .6293122  | -.0031027  | .1105771 |
| cg22523078  | -.0001427  | .4682438  | .0007361  | .5923121 |
| cg19744173  | .000371  | .2118437  | -.0019305  | .3524233 |
| cg09454417  | -.0000513  | .9020129  | -.0020815  | .474107 |
| cg13067635  | .0005825  | .0673629  | -.0010876  | .6253709 |
| cg14925616  | -.0004339  | .1945003  | -.0011418  | .6252401 |
| cg04943374  | .0007534  | .0702523  | .0002528  | .9308158 |
| cg26095923 | -.0001257  | .7943869  | .0008805  | .7937847 |
| cg07624582  | .0007665  | .1208219  | .0026645  | .4404919 |
| cg09413378  | .0001365  | .5851029  | -.0021696  | .2138266 |
| cg09278484  | -.0004592  | .2987158  | -.0010752  | .7276915 |
| cg22240695  | .000091  | .7489442  | -.0024977  | .2080319 |
| cg00528492  | .0000193  | .9398879  | .0003162  | .8597238 |
| cg04948906  | -.0001349  | .5590781  | .0001139  | .9436835 |
| cg12592220  | .0000424  | .9084867  | -.0017221  | .5037547 |
| cg24810429  | .0000151  | .9599732  | -.0009745  | .6417951 |
| cg21945120  | .0005609  | .253585  | -.0006159  | .8576313 |
| cg07249182  | .0001857  | .6496998  | -.0028049  | .3258948 |
| cg25954315  | .0002907  | .3394008  | -.0031172  | .1421958 |
| cg15445281  | -.0000456  | .9073873  | .0015151  | .5795968 |
| cg14511702  | -.0005665  | .0235141  | -.0024845  | .1555792 |
| cg24129356  | -.0000113  | .982134  | -.0005545  | .8750905 |
| cg25201165  | .0002964  | .5002988  | .0010511  | .7322067 |
| cg27478579  | .0000579  | .8288996  | -.0003169  | .865444 |
| cg07377446  | -.0004104  | .1746236  | -.0066002  | .0016963 |
| cg17451586  | .0001525  | .6416925  | -.0007658  | .7379824 |
| cg00009602  | .0004935  | .1312192  | .0009673  | .6722257 |
| cg09964886  | .0000781  | .7785241  | -.000459  | .8130114 |
| cg02019495  | -.0000359  | .8881751  | -.0006972  | .6954317 |
| cg24914185  | .00023  | .523845  | -.0000285  | .9909788 |
| cg21481637  | .0003462  | .2703782  | -.0003164  | .8854045 |
| cg12822891  | -.000342  | .4064507  | .0006663  | .8169173 |
| cg08851848  | .0004187  | .2745465  | -.0004316  | .8719597 |
| cg02735762  | -.000019  | .921379  | .000975  | .4671938 |
| cg27109588  | .0005309  | .160319  | .004081  | .122186 |
| cg16014031  | -.0002978  | .4945685  | .0014692  | .6294457 |
| cg02177087  | .0002899  | .1756901  | .0007486  | .6168511 |
| cg12950368  | -.0001407  | .6500383  | -.000936  | .6657212 |
| cg15877233  | -.0001818  | .5544136  | -.0032507  | .1298539 |
| cg27509293  | .0000124  | .96742  | -.002167  | .3060326 |
| cg05394561  | .0004637  | .2051131  | -.0026927  | .2922735 |
| cg27327370  | -.0000241  | .9146214  | .0011835  | .450148 |
| cg26351826  | .0003658  | .3154314  | -.0017494  | .4919128 |
| cg00452806  | .0006186  | .1163584  | -.0023318  | .3971688 |
| cg02368788  | -.0005344  | .3205337  | .001104  | .76899 |
| cg04740205  | .0007668  | .0571434  | .0023764  | .3993658 |
| cg27518892  | .0002256  | .4693808  | -.0019028  | .3823227 |
| cg00869550  | .000139  | .6121404  | -.0005761  | .7635444 |
| cg07363914  | .0002984  | .1079612  | .0003195  | .805604 |
| cg12264322  | -.0004913  | .2423894  | .0011333  | .6995952 |
| cg00921839  | -.0000556  | .9311672  | -.0014896  | .7405368 |
| cg18402166  | .000191  | .5282338  | -.0004002  | .8499421 |
| cg12718972  | .0000188  | .9575279  | -.0019235  | .4355237 |
| cg06419239  | -.0005369  | .1145684  | .0004736  | .8422059 |
| cg16890093  | .0000227  | .9266179  | .0007093  | .6808044 |
| cg02571874  | .0003899  | .3137829  | .0002685  | .9209421 |
| cg07807026  | .0002749  | .3664275  | -.0018707  | .3788534 |
| cg12338887  | .00008  | .7871522  | -.0014903  | .4714369 |
| cg20020452  | .000324  | .2867535  | -.0048524  | .0220731 |
| cg16326902  | -.0000765  | .8313211  | .0019969  | .4260884 |
| cg22328850  | -.0001849  | .7247206  | -.0020888  | .568931 |
| cg18749651  | -.0002655  | .4497492  | -.0015247  | .5343381 |
| cg15393364  | .0001594  | .5229898  | -.0000699  | .9680219 |
| cg15896766  | .0003675  | .2849678  | -.0022345  | .3519669 |
| cg03047995  | .0001705  | .6680996  | -.0025572  | .3570469 |
| cg26590588  | -.0005107  | .2051711  | -.004484  | .1110621 |
| cg22650425  | 1.74e-06  | .9939792  | -.0017225  | .2854992 |
| cg16964184  | .0006835  | .1705739  | -.0015301  | .6607761 |
| cg00525964  | .0001989  | .6361585  | -.0023052  | .4324159 |
| cg06511149  | .0005114  | .1138032  | .0016674  | .4608809 |
| cg02240291  | -.000462  | .1925618  | -.0007101  | .7744694 |
| cg25937862  | -.0000367  | .8633711  | -.0005523  | .7104437 |
| cg04929355  | -.0000179  | .9662455  | -.0014591  | .6204912 |
| cg16195519  | -.0003717  | .2554578  | -.005493  | .0158809 |
| cg17372327  | -.0000308  | .9125854  | -.0012614  | .5192215 |
| cg17394978  | .0002608  | .5204386  | -.0024105  | .3950463 |
| cg25156118  | -.0002927  | .4692219  | .0032914  | .2437188 |
| cg18878242  | .000155  | .7626443  | -.0043585  | .2237281 |
| cg11415687  | .0002245  | .2984649  | -.0004029  | .7893879 |
| cg00872144  | -.000302  | .3006023  | -.0035903  | .0777885 |
| cg18623216  | .0008259  | .1790416  | .0003265  | .9394253 |
| cg23639499  | .0000973  | .7288724  | -.0002848  | .8844571 |
| cg20734092  | .000429  | .4832113  | .0007428  | .8620346 |
| cg21458064  | .0002237  | .4532973  | -.0001809  | .9308239 |
| cg24803390  | .0013943  | .0044787  | .0033153  | .3349971 |
| cg15556213  | -.0001744  | .6088546  | .0001015  | .9659974 |
| cg23366191  | -.0002347  | .5105678  | -.000765  | .7588922 |
| cg06922359  | -.0001928  | .3549255  | -.0021808  | .1338584 |
| cg08960443  | .0010656  | .0247304  | -.0027282  | .4114717 |
| cg07805345  | -.000127  | .6435914  | -.0011612  | .5445585 |
| cg16002234  | .0003969  | .5197234  | .0032536  | .4498555 |
| cg23638139  | -.0001141  | .7192967  | .001726  | .4362671 |
| cg27239243  | .0002952  | .2344289  | -.0017708  | .3072642 |
| cg00406098  | .0014971  | .0161014  | .0039698  | .362105 |
| cg14258501  | .0002124  | .5830245  | -.0035525  | .1883268 |
| cg06951727  | .0003126  | .1611628  | -.0024099  | .1219291 |
| cg16167422  | -.0004452  | .4021483  | -.0026253  | .479403 |
| cg03295554  | -.0003175  | .5199624  | -.0002067  | .9521967 |
| cg18214661  | -.0000793  | .8508404  | -.0028975  | .3251422 |
| cg13247871  | -.0001094  | .7336226  | -.002266  | .312769 |
| cg16342853  | -.0000993  | .7358714  | -.000705  | .731672 |
| cg03665151  | .0001605  | .7211971  | -.0023152  | .4611203 |
| cg00841845  | .0004953  | .3431649  | -.0051519  | .1577928 |
| cg10261512  | .0002139  | .4265656  | -.0018419  | .3268402 |
| cg05059607  | .0004234  | .3719861  | -.0008375  | .8004826 |
| cg19566482  | -.0001668  | .7281505  | -.0026601  | .4273829 |
| cg03006193  | -.0005934  | .1353745  | -.0018572  | .5037987 |
| cg19551561  | .0008743  | .097194  | .0038061  | .3016361 |
| cg12856497  | .0004999  | .2237571  | -.0028128  | .3271142 |
| cg15781526  | -8.60e-06  | .9734178  | .0003408  | .8500308 |
| cg13532547  | -.0000877  | .8286432  | .0025741  | .3625936 |
| cg25975961  | .000571  | .4679447  | .001626  | .767315 |
| cg19152802  | .0007586  | .0883196  | -.0006744  | .8285083 |
| cg13377771  | .0002395  | .5066301  | -.0016979  | .5003173 |
| cg16345559  | -.0003712  | .2079825  | .0006328  | .7587909 |
| cg08435674  | -.0004629  | .1895991  | -.0002106  | .9319853 |
| cg20409231  | .0007052  | .1407349  | .00044  | .8954335 |
| cg16103712  | .0013362  | .0345919  | -.0004608  | .9170876 |
| cg26195586  | .0001438  | .6491843  | -.0018139  | .4110737 |
| cg19333758  | .0004818  | .2770816  | -.0028286  | .3610344 |
| cg13641317  | .0003252  | .1892278  | -.0016974  | .3267328 |
| cg11729363  | .0000594  | .8905245  | .0006669  | .8249942 |
| cg04225775  | .0007685  | .0115795  | -.0013356  | .5310943 |
| cg26708427  | .0000867  | .7277317  | -.0011436  | .5106462 |
| cg06843189  | .0000982  | .7944478  | -.0014542  | .5806128 |
| cg06642155  | .0006224  | .0217771  | -.0001546  | .9351521 |
| cg15793688  | -.0004707  | .3361884  | -.0108877  | .0013724 |
| cg11147940  | .0002423  | .4567395  | -.0007229  | .7506374 |
| cg10163406  | .0004251  | .1206762  | -.0019981  | .2965611 |
| cg19029445  | -.0000483  | .9258016  | .0024227  | .5037308 |
| cg21051696  | .0000221  | .9452506  | .0018652  | .4057066 |
| cg11360522  | .0010293  | .0369317  | -.0015469  | .6541463 |
| cg13492490  | .0003681  | .3540872  | -.0009017  | .7452315 |
| cg15366573  | -.0001367  | .5906539  | .0021946  | .2159186 |
| cg24296397  | .0005068  | .1803276 | .000361  | .8914322 |
| cg06408559  | .0001418  | .7373557  | .0009182  | .7558973 |
| cg21086113  | .0001879  | .6723865  | -.0022052  | .4773762 |
| cg23541926  | .0009239  | .1486182  | -.0032003  | .4741275 |
| cg23652484  | .0001247  | .7325607  | -.0020435  | .4227015 |
| cg01408926  | -.000079  | .7386471  | -.0005354  | .7460838 |
| cg23478124  | .0000681  | .8487694  | -.0019266  | .4394158 |
| cg13245626  | .0014693  | .0210153  | -.0026568  | .5512381 |
| cg10411339  | -.0000311  | .922792  | -.0054796  | .0141346 |
| cg15617775  | .0001912  | .4676901  | -.001943  | .2905005 |
| cg22681074  | .0001774  | .5000517  | .00112  | .5420291 |
| cg19136673  | .0002409  | .4140962  | -.0002334  | .9098414 |
| cg15937829  | -.0002123  | .5248097  | -.0038195  | .1010176 |
| cg11476102  | -.0002133  | .4631405  | .0012843  | .5270671 |
| cg14292572  | .0001618  | .6015143  | -.0003242  | .8809267 |
| cg12819393  | -.0006879  | .0649177  | -.0082827  | .0014066 |
| cg01961682  | .0003331  | .1443237  | .0013708  | .3899815 |
| cg20228124  | -.0000875  | .8022193  | .0004776  | .8447449 |
| cg21262198  | .0007383  | .2967231  | -.0031806  | .5199406 |
| cg01098955  | .0004038  | .3591054  | .0023402  | .4467746 |
| cg01130991  | -.0010626  | .0105616  | -.0002372  | .9350793 |
| cg18347497  | .0008321  | .0926755  | .0004575  | .894857 |
| cg18750087  | -.0000245  | .9492304  | -.0004889  | .8554607 |
| cg02983090  | .0000907  | .8411574  | -.0039797  | .2076454 |
| cg07302471  | .0000894  | .90939  | .0024745  | .6518051 |
| cg16725984  | .0002255  | .7937595  | -.0081126  | .1776841 |
| cg19764841  | .0002665  | .2464545  | -.0019073  | .2350217 |
| cg01893462  | .000086  | .7746215  | .0025316  | .2269808 |
| cg19571256  | .0001037  | .7115174  | -.0010255  | .6003808 |
| cg24006547  | -.0006023  | .0867061  | -.0031494  | .1999899 |
| cg19426434  | .0001195  | .6815784  | .000711  | .7267752 |
| cg08241011  | .0001382  | .6522962  | -.0007287  | .7338154 |
| cg14774445  | .0000784  | .8166143  | .0003986  | .8659228 |
| cg09347218  | .0002739  | .4933488  | -.0018596  | .5054274 |
| cg03972892  | .000479  | .0946591  | -.0009793  | .6251301 |
| cg05704547  | .0002197  | .4020609  | -.003785  | .0383695 |
| cg00464492  | -.0003812  | .2051377  | -.0016616  | .429267 |
| cg23417486  | .0004328  | .441947  | -.0009569  | .8077285 |
| cg08726900  | .0003636  | .4321466  | -.001249  | .6992829 |
| cg22787724  | .0003409  | .4925801  | .0015802  | .6488271 |
| cg18079500  | -.0001772  | .5651593  | .0001704  | .9368926 |
| cg16581631  | -.0000326  | .8311067  | .000331  | .7561936 |
| cg11993583  | .0001322  | .5900311  | -.0011139  | .5157458 |
| cg23238168  | -.0001331  | .6997493  | -.0012236  | .611783 |
| cg04350530  | -.0000201  | .9582696  | -.000701  | .7940179 |
| cg11387576  | .0001546  | .6185246  | -.0020746  | .3385498 |
| cg09626867  | .0007891  | .1412597  | .0061493  | .1006403 |
| cg01704198  | .0000735  | .7917175  | .0010441  | .5911992 |
| cg21757973  | .0007337  | .1615197  | -.0058946  | .1071746 |
| cg11932158  | .0010318  | .1602449  | -.0006239  | .9033346 |
| cg07952905  | .0003237  | .2326866  | .0007412  | .6958146 |
| cg08043301  | -.0001911  | .5500511  | -.0012426  | .5778785 |
| cg24824128  | .0003003  | .6004262  | -.0018129  | .6507061 |
| cg07454365  | .0003917  | .2590028  | .0025064  | .3011388 |
| cg11199014  | -.0005933  | .1677447  | .0012579  | .6756881 |
| cg09178900  | .0001191  | .508412  | .0003295  | .793451 |
| cg09199323  | -.0001384  | .7319086  | -.0043645  | .1214697 |
| cg13584078  | .0002357  | .2027053  | .0016284  | .2075907 |
| cg04999352  | .0001005  | .7773522  | -.0027541  | .2667595 |
| cg24769355  | .0001843  | .6619425  | .0006223  | .8325676 |
| cg25585400  | .0000472  | .8400017  | -.0017373  | .2873397 |
| cg14499274  | -.0006887  | .0754456  | .0000345  | .9898462 |
| cg23009865  | .0024617  | .0597414  | .0013704  | .8809294 |
| cg12855906  | .0001033  | .8131955  | .0008582  | .7785394 |
| cg13668657  | .0004413  | .0957282  | -.0004951  | .7893191 |
| cg16790511  | .0001391  | .7969512  | -.0022226  | .5561653 |
| cg18210365  | -.0004452  | .1539162  | .000402  | .8539118 |
| cg06478995  | .0005432  | .2414339  | .0011893  | .7136542 |
| cg12908125  | -.0005111  | .1746409  | .0039488  | .1330823 |
| cg21936292  | .000527  | .2699209  | -.0015799  | .6360016 |
| cg24951593  | .000199  | .4469744  | .0003973  | .8279243 |
| cg08943494  | .0009087  | .3016733  | -.0000905  | .9882577 |
| cg00980870  | -.0003347  | .4734042  | .0019362  | .5526719 |
| cg25638549  | -.0002332  | .7019576  | .0015713  | .7120379 |
| cg20068209  | .0002604  | .5518104  | -.0040406  | .1858591 |
| cg08307171  | .0001337  | .68217  | -.0003445  | .8799496 |
| cg08531140  | .0000378  | .9156678  | .0017383  | .4850076 |
| cg04521626  | .0003581  | .4008615  | -.0006086  | .8380805 |
| cg14184306  | .0002671  | .5680249  | -.0030079  | .3571693 |
| cg17984201  | .0015178  | .0044287  | -.0022973  | .5390184 |
| cg25592832  | .0003071  | .1389584  | .0002286  | .8748508 |
| cg20207982  | -.0000298  | .9517602  | -.0020646  | .548737 |
| cg15016701  | .0000757  | .8471264  | -.001804  | .5106232 |
| cg15236764  | .0001477  | .6370014  | -.0012367  | .5716739 |
| cg13121392  | .0002517  | .4410215  | -.0009759  | .6689052 |
| cg02493846  | .0007121  | .0378442  | -.0010675  | .6564997 |
| cg03186149  | .0001438  | .6595706  | -.0019151  | .4006741 |
| cg22680451  | .0000426  | .8323424  | -.0007736  | .5823253 |
| cg25772839  | .0001318  | .776706  | .000142  | .9650916 |
| cg05328218  | .001275  | .0262503  | .0021613  | .5904995 |
| cg10819495  | .0002572  | .351231  | -.0017196  | .37216 |
| cg01803294  | -.0001503  | .6118794  | .0008868  | .668184 |
| cg24442506  | .0006116  | .1887153  | .0004088  | .899982 |
| cg19748455  | .000271  | .4651262  | .0003248  | .9002609 |
| cg24503146  | .0001192  | .7767181  | .0021673  | .4600787 |
| cg06356306  | -.000012  | .969434  | -.0012187  | .5767139 |
| cg19790908  | -.0004528  | .0808112  | -.0003851  | .8318848 |
| cg05650559  | .0005665  | .0449814  | .0036181  | .0668288 |
| cg13741394  | -.0003029  | .2537659  | -.0009986  | .5903323 |
| cg03814573  | -.0002916  | .2975782  | -.0040714  | .0370183 |
| cg10728351  | .0002772  | .5679289  | -.0026239  | .4388978 |
| cg14186145  | .000415  | .4797421  | .0000672  | .9869359 |
| cg18765405  | -.0002065  | .33652  | .0008923  | .5521996 |
| cg18088971  | .0000807  | .7570859  | -.0017156  | .3464632 |
| cg07319811  | .0003677  | .3349102  | -.0015786  | .553524 |
| cg02550660  | -.0000615  | .8707666  | -.0000987  | .9701838 |
| cg14090154  | -.0001313  | .6474678  | .0001509  | .9400399 |
| cg07338715  | .0002607  | .4249787  | -.0008845  | .6984577 |
| cg01798157  | -.0001807  | .6781841  | .0021613  | .4773346 |
| cg10921592  | .0001863  | .693487  | -.0021105  | .5226254 |
| cg04621850  | .0007768  | .0413135  | -.0024067  | .3662667 |
| cg17837526  | .0002019  | .4659946  | -.0007552  | .6963048 |
| cg22451300  | .0003418  | .438723  | .0000585  | .9848773 |
| cg14620184  | -.0000694  | .8240038  | -.0002405  | .9121239 |
| cg17344060  | -.0003032  | .4829193  | .0010908  | .7178465 |
| cg04878826  | .0002935  | .3266028  | .0000365  | .9860666 |
| cg17361314  | -.0000269  | .9249357  | -.0033418  | .0934286 |
| cg10213935  | .0000143  | .9782344  | -.0030274  | .4070747 |
| cg21760140  | -.0001754  | .6684152  | -.0005429  | .8494487 |
| cg25538809  | -.0000539  | .8123837  | .0004807  | .7618104 |
| cg11212234  | .0001097  | .786272  | -.0013657  | .6289309 |
| cg24750887  | .0001941  | .3476034  | -.0019884  | .1680017 |
| cg17950169  | .0002868  | .3193297  | -.0006758  | .7369884 |
| cg12533384  | .0008391  | .1147359  | -.0023287  | .5312988 |
| cg27246321  | -.000947  | .0227681  | -.0032063  | .2706228 |
| cg09492210  | .0001709  | .4872133  | -.0022102  | .1979049 |
| cg11731280  | .0007208  | .1016653  | -.0015533  | .6140001 |
| cg11343553  | -.0001917  | .5774679  | -.0013977  | .5608075 |
| cg02017450  | .0009439  | .198113  | -.0033463  | .5138433 |
| cg27184903  | -.0005209  | .1388815  | -.0029658  | .2278157 |
| cg25535569  | -.000426  | .2611487  | -.0035357  | .1816297 |
| cg16536918  | .0003681  | .3967807  | .0020804  | .4929346 |
| cg11831006  | .000364  | .2551085  | -.0025358  | .256297 |
| cg10415685  | -.000148  | .7095952  | -.0023031  | .4065273 |
| cg05901971  | .0006131  | .1038488  | .0000681  | .9793831 |
| cg05669550  | -.0007208  | .1364387  | -.0034236  | .311512 |
| cg15475323  | .0001832  | .5151994  | -.0005187  | .7919799 |
| cg22329411  | -.0000272  | .9346866  | -.0035261  | .127897 |
| cg12420118  | -.0005299  | .1042453  | -.0014572  | .5228801 |
| cg13608623  | .0009135  | .060251  | -.0038538  | .2569318 |
| cg18982976  | .0005991  | .2489876  | .0014067  | .6985305 |
| cg10676600  | -.000591  | .0474002  | -.0013462  | .518609 |
| cg11036672  | -.0003  | .34959  | .0009599  | .6683499 |
| cg00896287  | .0000361  | .8857132  | -.0017782  | .3106225 |
| cg04033301  | .0003205  | .3532617  | .001279  | .5959959 |
| cg19411100  | .0001758  | .6468136  | -.0001436  | .9572663 |
| cg15737760  | .0006806  | .0794346  | .0015057  | .5790435 |
| cg04083553  | .0001638  | .539593  | -.0004571  | .8064117 |
| cg04354433  | .0000253  | .954698  | -.0016058  | .6049793 |
| cg17747781  | .0012131  | .017813  | -.004216  | .2393972 |
| cg01346147  | .0001812  | .5249832  | -.002832  | .1545128 |
| cg14219918  | -.0003124  | .697228  | -.0031248  | .5773659 |
| cg01167556  | -.0001212  | .6923702  | .0013877  | .516694 |
| cg18897025  | .0004756  | .3705601  | -.0002535  | .9455441 |
| cg06396119  | -.00092  | .0393501  | -.0029441  | .3459595 |
| cg26732196  | .0001556  | .52746  | -.0006374  | .710976 |
| cg03760309  | -.0000813  | .798157  | -.0042875  | .052905 |
| cg01305625  | -.0004236  | .1029077  | -.0026552  | .1434173 |
| cg14368221  | .0004877  | .2015695  | -.0012749  | .6329092 |
| cg17632356  | .0006102  | .2081919  | -.0010333  | .7604195 |
| cg19531057  | .0003605  | .2683294  | -.0010985  | .6292791 |
| cg13611686  | .0004054  | .1736071  | .0009415  | .651181 |
| cg13530937  | .0003532  | .3964871  | -.00048  | .8690088 |
| cg02306236  | .0008382  | .1135508  | .0063776  | .0846544 |
| cg09709426  | .0004659  | .1934814  | -.0013089  | .6012 |
| cg12264462  | .0002666  | .2465504  | .0020404  | .2040699 |
| cg05901196  | -.0001974  | .5774587  | -.0004571  | .8535074 |
| cg03387494  | .0002963  | .4188861  | -.0013925  | .5865419 |
| cg21705355  | .0000713  | .7724256  | -.0010886  | .5269778 |
| cg27239408  | .0000621  | .8311662  | -.0016709  | .4112925 |
| cg08716255  | -.0002973  | .5865464  | -.0048862  | .2002909 |
| cg16534142  | .000039  | .9198633  | -.0020394  | .451708 |
| cg21113478  | .0001812  | .5795518  | .0029099  | .2024172 |
| cg01142407  | 4.04e-06  | .9899283  | -.0025088  | .2617082 |
| cg09479286  | .0000153  | .9759099  | .0031693  | .3716876 |
| cg00050505  | -.0003674  | .4773856  | -.0028027  | .4377061 |
| cg03036214  | .0003703  | .2426622  | -.0013456  | .5434722 |
| cg23108535  | .0002533  | .6222112  | -.0011269  | .7536817 |
| cg16964791  | .0001364  | .6039283  | -.0005856  | .7498069 |
| cg23821206  | .0004433  | .1335473  | .0023837  | .2483178 |
| cg20417154  | .0000195  | .9581215  | -.0000748  | .9769977 |
| cg17348495  | -.0001799  | .6104146  | -.0009344  | .7048498 |
| cg18317026  | .000273  | .4367309  | .0005807  | .812833 |
| cg15940703  | 8.59e-06  | .9820781  | .0011271  | .6729631 |
| cg00685116  | .0000353  | .9041494  | -.0030659  | .1333291 |
| cg00636922  | .0009162  | .0208884  | .0011186  | .6871523 |
| cg02988288  | .0014313  | .0322934  | .0140514  | .0025597 |
| cg03422256  | .0007308  | .0365846  | .0006262  | .7980374 |
| cg17930873  | -.0000857  | .8083906  | .0023627  | .3380432 |
| cg19115490  | -.0001078  | .6995546  | -.0054129  | .0053605 |
| cg05077231  | -.0005765  | .1456368  | .0002419  | .9304057 |
| cg02430430  | .0002429  | .4970475  | -.0025449  | .308256 |
| cg01088608  | -.0004218  | .2443373  | -.0055222  | .0288139 |
| cg07495470  | .0000931  | .7000861  | -.0014853  | .3789677 |
| cg00237080  | .0003376  | .4604391  | -.0018913  | .5539038 |
| cg15397817  | .0001886  | .4209954  | -.0012764  | .43543 |
| cg21131729  | -.0004227  | .2213407  | -.004754  | .0486592 |
| cg27198696  | -.0001171  | .6949773  | -.001148  | .5818841 |
| cg10575219  | .0002095  | .5958074  | -.0012573  | .6485745 |
| cg12503394  | .0001516  | .7136264  | -.0024534  | .3948444 |
| cg12226023  | .0000438  | .9136856  | -.0033916  | .2292196 |
| cg19774236  | -.0002886  | .3036419  | .0016186  | .4089554 |
| cg20196277  | .0007941  | .0694499  | -.0001293  | .9662957 |
| cg01309328  | .0003737  | .2949449  | -.006021  | .0154385 |
| cg14943355  | -.0004838  | .1835326  | .0001197  | .9624555 |
| cg14847379  | -.0000177  | .9216442  | -.0013495  | .2823115 |
| cg03514139  | .0003242  | .3414625  | .0027554  | .2469591 |
| cg05160449  | .0003306  | .4295979  | -.0024946  | .3934618 |
| cg04685228  | .0004339  | .3724243  | -.0030185  | .3743713 |
| cg04668163  | .0002515  | .3654719  | -.0001533  | .9370681 |
| cg23575527  | .0001813  | .5707329  | -.0013652  | .5409891 |
| cg14973857  | .0003971  | .1894882  | -.0010307  | .6261207 |
| cg22699285  | .0000138  | .9673394  | -.0013321  | .5705622 |
| cg11087049  | .0001158  | .580504  | -.0012127  | .4073971 |
| cg08919659  | -.0000584  | .8412703  | -.0028155  | .166189 |
| cg03064693  | .0000154  | .934107  | -.0021165  | .1035772 |
| cg12103569  | .0003111  | .3992986  | .0003849  | .8813766 |
| cg20334115  | .0004876  | .5006261  | -.0045289  | .3703712 |