

**Supplementary Table VIII. Diagnostic value for the 439 CpGs found differentially methylated in Stage I samples.** Normal samples mean methylation, Stage I samples mean methylation,  $\Delta\beta$ , Tumor (T) vs. Normal (N) status and respective AUCs are provided.

| CpGs       | Tumor samples mean methylation | Normal samples mean methylation | $\Delta\beta$ | Tumor (T) vs. Normal (N) status | AUC    |
|------------|--------------------------------|---------------------------------|---------------|---------------------------------|--------|
| cg00101104 | 0.6460                         | 0.8957                          | -0.2497       | Hypo                            | 0.8430 |
| cg00175487 | 0.3791                         | 0.7369                          | -0.3578       | Hypo                            | 0.9987 |
| cg00395657 | 0.5256                         | 0.8100                          | -0.2844       | Hypo                            | 0.8628 |
| cg00505001 | 0.5474                         | 0.2382                          | 0.3091        | hyper                           | 0.9235 |
| cg00534479 | 0.4155                         | 0.7525                          | -0.3369       | Hypo                            | 1.0000 |
| cg00571033 | 0.5646                         | 0.2987                          | 0.2659        | hyper                           | 0.9969 |
| cg00576773 | 0.5299                         | 0.7407                          | -0.2109       | Hypo                            | 0.8485 |
| cg00583858 | 0.3697                         | 0.6553                          | -0.2856       | Hypo                            | 0.8399 |
| cg00739582 | 0.4837                         | 0.8001                          | -0.3164       | Hypo                            | 0.9386 |
| cg00989505 | 0.6370                         | 0.8808                          | -0.2438       | Hypo                            | 0.8945 |
| cg01052879 | 0.6054                         | 0.1733                          | 0.4321        | hyper                           | 0.9950 |
| cg01131100 | 0.4893                         | 0.7075                          | -0.2182       | Hypo                            | 0.8343 |
| cg01132653 | 0.5607                         | 0.8337                          | -0.2731       | Hypo                            | 0.9426 |
| cg01160855 | 0.4420                         | 0.7286                          | -0.2866       | Hypo                            | 0.8602 |
| cg01192900 | 0.4565                         | 0.0909                          | 0.3657        | hyper                           | 1.0000 |
| cg01200264 | 0.3830                         | 0.6724                          | -0.2895       | Hypo                            | 0.9597 |
| cg01273384 | 0.3147                         | 0.6069                          | -0.2922       | Hypo                            | 0.9979 |
| cg01334432 | 0.6495                         | 0.9012                          | -0.2517       | Hypo                            | 0.8715 |
| cg01514668 | 0.4919                         | 0.1862                          | 0.3057        | hyper                           | 0.8986 |
| cg01615815 | 0.4891                         | 0.8977                          | -0.4086       | Hypo                            | 0.9746 |
| cg01651728 | 0.4495                         | 0.7944                          | -0.3449       | Hypo                            | 0.9026 |
| cg01706263 | 0.2088                         | 0.5937                          | -0.3849       | Hypo                            | 1.0000 |
| cg01719718 | 0.2479                         | 0.4808                          | -0.2329       | Hypo                            | 0.9721 |
| cg01821906 | 0.6903                         | 0.8946                          | -0.2043       | Hypo                            | 0.8525 |
| cg01823120 | 0.6710                         | 0.8785                          | -0.2076       | Hypo                            | 0.8603 |
| cg01882870 | 0.5046                         | 0.1829                          | 0.3216        | hyper                           | 0.9302 |
| cg01939477 | 0.6377                         | 0.1411                          | 0.4966        | hyper                           | 1.0000 |
| cg01963147 | 0.5088                         | 0.8997                          | -0.3909       | Hypo                            | 0.9290 |
| cg01972979 | 0.9400                         | 0.5034                          | 0.4366        | hyper                           | 0.9975 |
| cg01988325 | 0.1578                         | 0.4034                          | -0.2456       | Hypo                            | 0.9952 |
| cg02065637 | 0.6870                         | 0.2601                          | 0.4269        | hyper                           | 1.0000 |
| cg02071553 | 0.5528                         | 0.8122                          | -0.2594       | Hypo                            | 0.9099 |
| cg02145866 | 0.4413                         | 0.7112                          | -0.2699       | Hypo                            | 0.9162 |
| cg02226645 | 0.6266                         | 0.2518                          | 0.3748        | hyper                           | 0.9492 |
| cg02278768 | 0.5715                         | 0.3383                          | 0.2332        | hyper                           | 0.9657 |
| cg02336334 | 0.3395                         | 0.7783                          | -0.4389       | Hypo                            | 1.0000 |

|            |        |        |         |       |        |
|------------|--------|--------|---------|-------|--------|
| cg02520707 | 0.5279 | 0.7735 | -0.2456 | Hypo  | 0.8699 |
| cg02558026 | 0.6101 | 0.2201 | 0.3900  | hyper | 0.9966 |
| cg02632490 | 0.4064 | 0.7933 | -0.3869 | Hypo  | 0.8727 |
| cg02650317 | 0.6460 | 0.0321 | 0.6139  | hyper | 1.0000 |
| cg02691745 | 0.5712 | 0.8354 | -0.2643 | Hypo  | 0.9046 |
| cg02887623 | 0.6873 | 0.9027 | -0.2153 | Hypo  | 0.8939 |
| cg02975060 | 0.4606 | 0.8503 | -0.3897 | Hypo  | 0.9928 |
| cg02991888 | 0.3047 | 0.6303 | -0.3256 | Hypo  | 0.9899 |
| cg03000711 | 0.5378 | 0.8621 | -0.3243 | Hypo  | 0.9290 |
| cg03019112 | 0.4135 | 0.7410 | -0.3275 | Hypo  | 0.9434 |
| cg03030267 | 0.4782 | 0.7327 | -0.2545 | Hypo  | 0.8874 |
| cg03145994 | 0.5428 | 0.7674 | -0.2247 | Hypo  | 0.8248 |
| cg03221054 | 0.6152 | 0.8593 | -0.2441 | Hypo  | 0.8279 |
| cg03290602 | 0.5702 | 0.8927 | -0.3225 | Hypo  | 0.9025 |
| cg03322633 | 0.3041 | 0.6081 | -0.3039 | Hypo  | 0.9872 |
| cg03356172 | 0.6878 | 0.3717 | 0.3162  | hyper | 0.9639 |
| cg03365311 | 0.5567 | 0.2528 | 0.3039  | hyper | 0.9972 |
| cg03387135 | 0.6171 | 0.1410 | 0.4761  | hyper | 0.9996 |
| cg03436967 | 0.6263 | 0.9246 | -0.2983 | Hypo  | 0.8727 |
| cg03649143 | 0.5856 | 0.8702 | -0.2845 | Hypo  | 0.9771 |
| cg03775802 | 0.4413 | 0.6999 | -0.2585 | Hypo  | 0.8791 |
| cg03799024 | 0.3758 | 0.7481 | -0.3723 | Hypo  | 0.9823 |
| cg03816029 | 0.5814 | 0.8894 | -0.3080 | Hypo  | 0.8788 |
| cg03894789 | 0.6131 | 0.8163 | -0.2032 | Hypo  | 0.8310 |
| cg03918703 | 0.3270 | 0.5760 | -0.2490 | Hypo  | 0.9887 |
| cg04104463 | 0.6019 | 0.3881 | 0.2138  | hyper | 0.8897 |
| cg04150495 | 0.7229 | 0.4273 | 0.2956  | hyper | 0.9623 |
| cg04227631 | 0.1999 | 0.5209 | -0.3211 | Hypo  | 0.9802 |
| cg04235416 | 0.4391 | 0.7577 | -0.3186 | Hypo  | 1.0000 |
| cg04274236 | 0.6694 | 0.8742 | -0.2048 | Hypo  | 0.8658 |
| cg04293733 | 0.5600 | 0.2164 | 0.3435  | hyper | 0.9991 |
| cg04355791 | 0.5030 | 0.1929 | 0.3101  | hyper | 0.9166 |
| cg04379522 | 0.6428 | 0.8826 | -0.2398 | Hypo  | 0.9144 |
| cg04476865 | 0.5830 | 0.9059 | -0.3228 | Hypo  | 0.9339 |
| cg04506202 | 0.6513 | 0.9116 | -0.2603 | Hypo  | 0.9058 |
| cg04524088 | 0.3100 | 0.5635 | -0.2535 | Hypo  | 0.9583 |
| cg04559779 | 0.7589 | 0.5460 | 0.2128  | hyper | 0.9733 |
| cg04563422 | 0.6603 | 0.8684 | -0.2081 | Hypo  | 0.8271 |
| cg04585937 | 0.5099 | 0.8357 | -0.3258 | Hypo  | 0.9121 |
| cg04650977 | 0.4454 | 0.8236 | -0.3782 | Hypo  | 0.9632 |
| cg04761768 | 0.5078 | 0.7377 | -0.2299 | Hypo  | 0.8945 |
| cg04802696 | 0.4685 | 0.7034 | -0.2350 | Hypo  | 0.8806 |
| cg04840800 | 0.4034 | 0.6259 | -0.2225 | Hypo  | 0.9693 |

|            |        |        |         |       |        |
|------------|--------|--------|---------|-------|--------|
| cg04864152 | 0.8337 | 0.4912 | 0.3425  | hyper | 0.9473 |
| cg05138957 | 0.3972 | 0.6125 | -0.2153 | Hypo  | 0.9485 |
| cg05240537 | 0.3491 | 0.6538 | -0.3047 | Hypo  | 0.9236 |
| cg05251190 | 0.4094 | 0.6116 | -0.2023 | Hypo  | 0.8587 |
| cg05283542 | 0.6271 | 0.2109 | 0.4162  | hyper | 0.8694 |
| cg05376374 | 0.6123 | 0.3383 | 0.2740  | hyper | 0.9987 |
| cg05423529 | 0.5641 | 0.1363 | 0.4278  | hyper | 1.0000 |
| cg05455720 | 0.6786 | 0.4623 | 0.2163  | hyper | 0.9721 |
| cg05474726 | 0.7067 | 0.4109 | 0.2958  | hyper | 0.9774 |
| cg05509179 | 0.3648 | 0.6668 | -0.3020 | Hypo  | 0.8702 |
| cg05574878 | 0.2107 | 0.4112 | -0.2005 | Hypo  | 0.9082 |
| cg05598886 | 0.9531 | 0.5885 | 0.3646  | hyper | 1.0000 |
| cg05687686 | 0.6128 | 0.3156 | 0.2972  | hyper | 0.9721 |
| cg05827233 | 0.5498 | 0.8389 | -0.2891 | Hypo  | 0.9467 |
| cg05858126 | 0.3812 | 0.6478 | -0.2666 | Hypo  | 0.8550 |
| cg05865548 | 0.4084 | 0.6862 | -0.2778 | Hypo  | 0.9811 |
| cg05878887 | 0.2708 | 0.7511 | -0.4803 | Hypo  | 0.9969 |
| cg05896714 | 0.6689 | 0.3443 | 0.3246  | hyper | 0.9313 |
| cg05922993 | 0.6196 | 0.8921 | -0.2725 | Hypo  | 0.8080 |
| cg06029905 | 0.3447 | 0.5549 | -0.2101 | Hypo  | 0.9687 |
| cg06048153 | 0.4717 | 0.7093 | -0.2376 | Hypo  | 0.9174 |
| cg06159667 | 0.5827 | 0.8028 | -0.2200 | Hypo  | 0.8517 |
| cg06372015 | 0.4357 | 0.1678 | 0.2679  | hyper | 0.8671 |
| cg06660530 | 0.5619 | 0.1813 | 0.3806  | hyper | 0.9769 |
| cg06695611 | 0.3533 | 0.0229 | 0.3305  | hyper | 0.8385 |
| cg06749053 | 0.5901 | 0.3416 | 0.2485  | hyper | 0.8428 |
| cg06811361 | 0.4565 | 0.6591 | -0.2027 | Hypo  | 0.8868 |
| cg06961429 | 0.2954 | 0.6002 | -0.3049 | Hypo  | 0.9871 |
| cg06995808 | 0.6848 | 0.9062 | -0.2214 | Hypo  | 0.8706 |
| cg07036112 | 0.8941 | 0.5940 | 0.3002  | hyper | 0.9991 |
| cg07126399 | 0.3483 | 0.6143 | -0.2660 | Hypo  | 0.9721 |
| cg07194250 | 0.8901 | 0.4480 | 0.4421  | hyper | 0.9598 |
| cg07554357 | 0.1597 | 0.6141 | -0.4544 | Hypo  | 0.9987 |
| cg07569575 | 0.5856 | 0.8420 | -0.2564 | Hypo  | 0.8307 |
| cg07616094 | 0.3856 | 0.7339 | -0.3484 | Hypo  | 0.9803 |
| cg07733567 | 0.9070 | 0.3940 | 0.5130  | hyper | 1.0000 |
| cg07739398 | 0.6119 | 0.8910 | -0.2791 | Hypo  | 0.9099 |
| cg07776419 | 0.8504 | 0.5085 | 0.3419  | hyper | 0.9198 |
| cg07792478 | 0.8378 | 0.6160 | 0.2218  | hyper | 0.9689 |
| cg07891737 | 0.4748 | 0.6960 | -0.2212 | Hypo  | 0.9340 |
| cg07915635 | 0.4254 | 0.6448 | -0.2194 | Hypo  | 0.9037 |
| cg08096166 | 0.5066 | 0.8249 | -0.3184 | Hypo  | 0.8420 |
| cg08145178 | 0.4218 | 0.6958 | -0.2740 | Hypo  | 0.9774 |

|            |        |        |         |       |        |
|------------|--------|--------|---------|-------|--------|
| cg08291487 | 0.3282 | 0.6972 | -0.3691 | Hypo  | 0.9971 |
| cg08304190 | 0.7982 | 0.4403 | 0.3579  | hyper | 0.9567 |
| cg08340885 | 0.5691 | 0.7842 | -0.2151 | Hypo  | 0.8182 |
| cg08360457 | 0.4934 | 0.7359 | -0.2425 | Hypo  | 0.8768 |
| cg08490094 | 0.7019 | 0.9047 | -0.2028 | Hypo  | 0.8224 |
| cg08519216 | 0.2605 | 0.0199 | 0.2406  | hyper | 0.8005 |
| cg08613350 | 0.6748 | 0.9194 | -0.2447 | Hypo  | 0.9033 |
| cg08737296 | 0.7077 | 0.2230 | 0.4847  | hyper | 0.9963 |
| cg08808720 | 0.4686 | 0.7153 | -0.2467 | Hypo  | 0.9400 |
| cg08827001 | 0.3056 | 0.0994 | 0.2061  | hyper | 0.9781 |
| cg08867933 | 0.4195 | 0.6733 | -0.2538 | Hypo  | 0.9476 |
| cg09011231 | 0.8054 | 0.6054 | 0.2000  | hyper | 0.9562 |
| cg09177473 | 0.3790 | 0.6353 | -0.2563 | Hypo  | 0.9514 |
| cg09279240 | 0.3493 | 0.0450 | 0.3043  | hyper | 0.8099 |
| cg09318158 | 0.4718 | 0.8058 | -0.3339 | Hypo  | 0.9721 |
| cg09335647 | 0.3241 | 0.6646 | -0.3405 | Hypo  | 0.9955 |
| cg09346118 | 0.6650 | 0.4027 | 0.2623  | hyper | 0.8508 |
| cg09404289 | 0.6347 | 0.8592 | -0.2245 | Hypo  | 0.8024 |
| cg09411231 | 0.5247 | 0.8418 | -0.3171 | Hypo  | 0.9201 |
| cg09422614 | 0.5074 | 0.8155 | -0.3081 | Hypo  | 0.9236 |
| cg09484214 | 0.5056 | 0.7248 | -0.2192 | Hypo  | 0.9418 |
| cg09532726 | 0.6663 | 0.9199 | -0.2536 | Hypo  | 0.8922 |
| cg09852439 | 0.3447 | 0.6395 | -0.2949 | Hypo  | 0.9930 |
| cg09887953 | 0.5951 | 0.8443 | -0.2493 | Hypo  | 0.9245 |
| cg09926260 | 0.3722 | 0.6965 | -0.3243 | Hypo  | 1.0000 |
| cg10079327 | 0.4992 | 0.7661 | -0.2669 | Hypo  | 0.8500 |
| cg10137253 | 0.4971 | 0.7069 | -0.2098 | Hypo  | 0.8436 |
| cg10177827 | 0.4774 | 0.7197 | -0.2423 | Hypo  | 0.9233 |
| cg10268345 | 0.9867 | 0.7417 | 0.2451  | hyper | 1.0000 |
| cg10285618 | 0.7597 | 0.5366 | 0.2231  | hyper | 0.9419 |
| cg10564626 | 0.4703 | 0.9032 | -0.4329 | Hypo  | 0.9535 |
| cg10647025 | 0.2152 | 0.7082 | -0.4931 | Hypo  | 1.0000 |
| cg10688790 | 0.4969 | 0.7967 | -0.2997 | Hypo  | 0.9143 |
| cg10979181 | 0.6196 | 0.9046 | -0.2851 | Hypo  | 0.9332 |
| cg11011640 | 0.5456 | 0.2863 | 0.2593  | hyper | 0.8950 |
| cg11019088 | 0.6960 | 0.8968 | -0.2008 | Hypo  | 0.8700 |
| cg11035122 | 0.5192 | 0.8017 | -0.2826 | Hypo  | 0.9793 |
| cg11074814 | 0.4852 | 0.2299 | 0.2553  | hyper | 0.8624 |
| cg11113760 | 0.2661 | 0.0187 | 0.2473  | hyper | 0.8069 |
| cg11125104 | 0.5575 | 0.1598 | 0.3977  | hyper | 1.0000 |
| cg11134801 | 0.5824 | 0.8022 | -0.2199 | Hypo  | 0.9104 |
| cg11166197 | 0.3536 | 0.7310 | -0.3774 | Hypo  | 0.9417 |
| cg11179120 | 0.5461 | 0.8371 | -0.2910 | Hypo  | 0.9463 |

|            |        |        |         |       |        |
|------------|--------|--------|---------|-------|--------|
| cg11201447 | 0.1025 | 0.4049 | -0.3024 | Hypo  | 0.9765 |
| cg11364290 | 0.4366 | 0.7710 | -0.3344 | Hypo  | 0.9964 |
| cg11552072 | 0.6887 | 0.4145 | 0.2741  | hyper | 0.9770 |
| cg11565377 | 0.4606 | 0.7406 | -0.2800 | Hypo  | 0.9479 |
| cg11638181 | 0.5181 | 0.1213 | 0.3968  | hyper | 0.8669 |
| cg11780042 | 0.4448 | 0.7818 | -0.3369 | Hypo  | 0.9378 |
| cg11869269 | 0.4878 | 0.8150 | -0.3272 | Hypo  | 0.9012 |
| cg12033297 | 0.3847 | 0.7388 | -0.3541 | Hypo  | 1.0000 |
| cg12038641 | 0.3877 | 0.6573 | -0.2695 | Hypo  | 0.9748 |
| cg12176191 | 0.5533 | 0.8827 | -0.3294 | Hypo  | 0.9426 |
| cg12206359 | 0.4212 | 0.6909 | -0.2697 | Hypo  | 0.8165 |
| cg12386297 | 0.2574 | 0.5708 | -0.3134 | Hypo  | 0.9962 |
| cg12530503 | 0.6579 | 0.4567 | 0.2011  | hyper | 0.9562 |
| cg12544401 | 0.2225 | 0.4960 | -0.2734 | Hypo  | 0.9811 |
| cg12626411 | 0.4378 | 0.7082 | -0.2703 | Hypo  | 0.9083 |
| cg12647861 | 0.2098 | 0.4458 | -0.2360 | Hypo  | 0.9987 |
| cg12675571 | 0.3692 | 0.6180 | -0.2488 | Hypo  | 0.9188 |
| cg12785573 | 0.5014 | 0.8012 | -0.2999 | Hypo  | 0.8855 |
| cg12823329 | 0.5983 | 0.8544 | -0.2561 | Hypo  | 0.9406 |
| cg12937141 | 0.4258 | 0.6494 | -0.2237 | Hypo  | 0.9588 |
| cg13061767 | 0.4811 | 0.7162 | -0.2351 | Hypo  | 0.9286 |
| cg13192714 | 0.5366 | 0.7412 | -0.2046 | Hypo  | 0.8339 |
| cg13238479 | 0.6155 | 0.3384 | 0.2770  | hyper | 0.9556 |
| cg13278105 | 0.6135 | 0.8637 | -0.2502 | Hypo  | 0.8982 |
| cg13446906 | 0.2383 | 0.4888 | -0.2504 | Hypo  | 0.8841 |
| cg13546609 | 0.5712 | 0.7812 | -0.2100 | Hypo  | 0.8461 |
| cg13600227 | 0.5389 | 0.7402 | -0.2013 | Hypo  | 0.8649 |
| cg13677859 | 0.4621 | 0.6690 | -0.2069 | Hypo  | 0.8691 |
| cg13691257 | 0.5319 | 0.7890 | -0.2571 | Hypo  | 0.8402 |
| cg13753460 | 0.4089 | 0.6358 | -0.2269 | Hypo  | 0.9869 |
| cg13767940 | 0.6700 | 0.1129 | 0.5571  | hyper | 0.9615 |
| cg13888600 | 0.4078 | 0.1646 | 0.2432  | hyper | 0.8622 |
| cg13995230 | 0.2378 | 0.4564 | -0.2186 | Hypo  | 0.8881 |
| cg14148088 | 0.4724 | 0.7184 | -0.2460 | Hypo  | 0.8840 |
| cg14247325 | 0.2876 | 0.7358 | -0.4482 | Hypo  | 0.9991 |
| cg14278808 | 0.6572 | 0.3350 | 0.3223  | hyper | 0.9272 |
| cg14355941 | 0.6033 | 0.8472 | -0.2439 | Hypo  | 0.8436 |
| cg14361526 | 0.5173 | 0.8001 | -0.2828 | Hypo  | 0.8789 |
| cg14416371 | 0.7416 | 0.1568 | 0.5848  | hyper | 1.0000 |
| cg14440205 | 0.4898 | 0.7426 | -0.2528 | Hypo  | 0.8909 |
| cg14487577 | 0.6413 | 0.9012 | -0.2599 | Hypo  | 0.9064 |
| cg14590098 | 0.5061 | 0.2779 | 0.2282  | hyper | 0.9656 |
| cg14670435 | 0.3965 | 0.0992 | 0.2973  | hyper | 0.9079 |

|            |        |        |         |       |        |
|------------|--------|--------|---------|-------|--------|
| cg14701682 | 0.6330 | 0.9089 | -0.2759 | Hypo  | 0.9294 |
| cg14777634 | 0.5337 | 0.8377 | -0.3040 | Hypo  | 0.8934 |
| cg14783814 | 0.7298 | 0.2687 | 0.4611  | hyper | 1.0000 |
| cg14901205 | 0.7079 | 0.3319 | 0.3760  | hyper | 0.9671 |
| cg14910227 | 0.3825 | 0.7705 | -0.3881 | Hypo  | 0.9823 |
| cg14944647 | 0.5546 | 0.1092 | 0.4454  | hyper | 1.0000 |
| cg14977365 | 0.6181 | 0.8686 | -0.2505 | Hypo  | 0.8893 |
| cg15003468 | 0.4045 | 0.6939 | -0.2894 | Hypo  | 0.9745 |
| cg15028514 | 0.5941 | 0.2524 | 0.3417  | hyper | 0.9954 |
| cg15033973 | 0.5455 | 0.8573 | -0.3118 | Hypo  | 0.8840 |
| cg15042473 | 0.3699 | 0.6323 | -0.2624 | Hypo  | 0.9987 |
| cg15056572 | 0.6187 | 0.8557 | -0.2369 | Hypo  | 0.8810 |
| cg15207708 | 0.6942 | 0.9058 | -0.2116 | Hypo  | 0.8901 |
| cg15248835 | 0.5807 | 0.1664 | 0.4143  | hyper | 0.8830 |
| cg15282281 | 0.3337 | 0.5608 | -0.2271 | Hypo  | 0.8944 |
| cg15319027 | 0.5707 | 0.7712 | -0.2004 | Hypo  | 0.8372 |
| cg15428904 | 0.5070 | 0.7987 | -0.2917 | Hypo  | 0.9404 |
| cg15556502 | 0.5954 | 0.1429 | 0.4525  | hyper | 1.0000 |
| cg15578140 | 0.2740 | 0.4740 | -0.2000 | Hypo  | 0.9758 |
| cg15699267 | 0.5526 | 0.0759 | 0.4768  | hyper | 0.9996 |
| cg15908975 | 0.4502 | 0.6887 | -0.2385 | Hypo  | 0.8112 |
| cg15937784 | 0.2706 | 0.5278 | -0.2572 | Hypo  | 0.9963 |
| cg16041090 | 0.3623 | 0.7332 | -0.3709 | Hypo  | 1.0000 |
| cg16189671 | 0.5225 | 0.3180 | 0.2046  | hyper | 0.9576 |
| cg16255697 | 0.2484 | 0.6755 | -0.4271 | Hypo  | 1.0000 |
| cg16341266 | 0.2817 | 0.8190 | -0.5373 | Hypo  | 1.0000 |
| cg16400999 | 0.3316 | 0.0344 | 0.2972  | hyper | 0.8211 |
| cg16407471 | 0.6245 | 0.3230 | 0.3015  | hyper | 0.9891 |
| cg16506910 | 0.2484 | 0.4727 | -0.2243 | Hypo  | 0.9843 |
| cg16530970 | 0.4478 | 0.8409 | -0.3932 | Hypo  | 0.9417 |
| cg16595458 | 0.5158 | 0.7784 | -0.2626 | Hypo  | 0.8703 |
| cg16695570 | 0.5481 | 0.8059 | -0.2578 | Hypo  | 0.9139 |
| cg16705245 | 0.2703 | 0.0652 | 0.2051  | hyper | 0.8156 |
| cg16865908 | 0.2148 | 0.4649 | -0.2501 | Hypo  | 0.9739 |
| cg16877681 | 0.6503 | 0.3482 | 0.3021  | hyper | 0.9136 |
| cg16908824 | 0.3278 | 0.7264 | -0.3986 | Hypo  | 0.9991 |
| cg16962115 | 0.5518 | 0.3388 | 0.2131  | hyper | 0.8858 |
| cg17033471 | 0.6260 | 0.8779 | -0.2518 | Hypo  | 0.8757 |
| cg17267710 | 0.4860 | 0.8321 | -0.3462 | Hypo  | 0.9211 |
| cg17796010 | 0.5919 | 0.3542 | 0.2377  | hyper | 0.9298 |
| cg17848546 | 0.3099 | 0.6313 | -0.3215 | Hypo  | 0.9991 |
| cg17857791 | 0.4435 | 0.7918 | -0.3483 | Hypo  | 0.9992 |
| cg17895907 | 0.3362 | 0.6321 | -0.2959 | Hypo  | 0.9560 |

|            |        |        |         |       |        |
|------------|--------|--------|---------|-------|--------|
| cg17918158 | 0.4800 | 0.7988 | -0.3187 | Hypo  | 0.9572 |
| cg18056266 | 0.4624 | 0.2009 | 0.2615  | hyper | 0.8917 |
| cg18153989 | 0.4538 | 0.6731 | -0.2193 | Hypo  | 0.8016 |
| cg18246262 | 0.4646 | 0.1120 | 0.3526  | hyper | 0.8024 |
| cg18269894 | 0.6769 | 0.9238 | -0.2468 | Hypo  | 0.8869 |
| cg18291941 | 0.6931 | 0.4061 | 0.2870  | hyper | 0.9693 |
| cg18339098 | 0.5601 | 0.7693 | -0.2092 | Hypo  | 0.8533 |
| cg18384960 | 0.5698 | 0.8444 | -0.2746 | Hypo  | 0.8579 |
| cg18403970 | 0.5163 | 0.7298 | -0.2135 | Hypo  | 0.9503 |
| cg18440069 | 0.4450 | 0.6675 | -0.2225 | Hypo  | 0.9305 |
| cg18515591 | 0.6176 | 0.1718 | 0.4458  | hyper | 1.0000 |
| cg18588811 | 0.4021 | 0.7645 | -0.3624 | Hypo  | 0.9957 |
| cg18590130 | 0.5576 | 0.8528 | -0.2951 | Hypo  | 0.9421 |
| cg18627360 | 0.6405 | 0.1770 | 0.4635  | hyper | 0.9991 |
| cg18654464 | 0.7557 | 0.5331 | 0.2225  | hyper | 0.8400 |
| cg18720617 | 0.5502 | 0.8177 | -0.2675 | Hypo  | 0.8638 |
| cg18772588 | 0.6327 | 0.0523 | 0.5804  | hyper | 1.0000 |
| cg19011552 | 0.1507 | 0.3777 | -0.2269 | Hypo  | 0.9834 |
| cg19098437 | 0.5184 | 0.7632 | -0.2448 | Hypo  | 0.8251 |
| cg19157647 | 0.8764 | 0.5139 | 0.3626  | hyper | 0.9795 |
| cg19267861 | 0.6263 | 0.3591 | 0.2672  | hyper | 0.9955 |
| cg19400113 | 0.5795 | 0.7949 | -0.2154 | Hypo  | 0.9017 |
| cg19603100 | 0.5510 | 0.8055 | -0.2545 | Hypo  | 0.9463 |
| cg19606290 | 0.4364 | 0.8375 | -0.4011 | Hypo  | 0.9860 |
| cg19757573 | 0.3111 | 0.7272 | -0.4161 | Hypo  | 0.9362 |
| cg19945937 | 0.5933 | 0.8234 | -0.2301 | Hypo  | 0.8929 |
| cg19968403 | 0.2840 | 0.0379 | 0.2461  | hyper | 0.8550 |
| cg19973758 | 0.4310 | 0.6574 | -0.2264 | Hypo  | 0.9512 |
| cg20067612 | 0.5604 | 0.8404 | -0.2801 | Hypo  | 0.9128 |
| cg20272287 | 0.7430 | 0.3411 | 0.4019  | hyper | 0.9244 |
| cg20277905 | 0.5981 | 0.3479 | 0.2503  | hyper | 0.9979 |
| cg20323571 | 0.3236 | 0.5478 | -0.2242 | Hypo  | 0.9665 |
| cg20344820 | 0.3012 | 0.6110 | -0.3098 | Hypo  | 0.9552 |
| cg20395967 | 0.7823 | 0.4583 | 0.3240  | hyper | 0.9608 |
| cg20474788 | 0.4993 | 0.8086 | -0.3093 | Hypo  | 0.8982 |
| cg20475322 | 0.6686 | 0.4071 | 0.2616  | hyper | 0.8617 |
| cg20519121 | 0.5689 | 0.3089 | 0.2600  | hyper | 0.9585 |
| cg20530613 | 0.5622 | 0.8258 | -0.2637 | Hypo  | 0.9558 |
| cg20587874 | 0.2140 | 0.4581 | -0.2440 | Hypo  | 0.9732 |
| cg20643675 | 0.4233 | 0.6836 | -0.2602 | Hypo  | 0.9222 |
| cg20653075 | 0.6457 | 0.3890 | 0.2567  | hyper | 0.9802 |
| cg20745248 | 0.4654 | 0.6847 | -0.2193 | Hypo  | 0.9644 |
| cg20788415 | 0.7345 | 0.4529 | 0.2815  | hyper | 0.9608 |

|            |        |        |         |       |        |
|------------|--------|--------|---------|-------|--------|
| cg20841588 | 0.5831 | 0.7845 | -0.2014 | Hypo  | 0.8132 |
| cg20953052 | 0.2184 | 0.5570 | -0.3386 | Hypo  | 0.9966 |
| cg20978230 | 0.7904 | 0.5854 | 0.2050  | hyper | 0.8239 |
| cg21146428 | 0.5419 | 0.7690 | -0.2271 | Hypo  | 0.8459 |
| cg21175685 | 0.3087 | 0.7464 | -0.4377 | Hypo  | 0.9976 |
| cg21182526 | 0.5782 | 0.8799 | -0.3016 | Hypo  | 0.9294 |
| cg21242212 | 0.5087 | 0.7540 | -0.2452 | Hypo  | 0.9149 |
| cg21342567 | 0.4707 | 0.7088 | -0.2381 | Hypo  | 0.9285 |
| cg21392700 | 0.5596 | 0.2907 | 0.2690  | hyper | 0.9119 |
| cg21456301 | 0.6809 | 0.8958 | -0.2149 | Hypo  | 0.9566 |
| cg21490751 | 0.4168 | 0.8278 | -0.4109 | Hypo  | 0.9100 |
| cg21529323 | 0.4054 | 0.0917 | 0.3137  | hyper | 0.9002 |
| cg21592803 | 0.6818 | 0.9210 | -0.2392 | Hypo  | 0.9394 |
| cg21809913 | 0.5479 | 0.7618 | -0.2139 | Hypo  | 0.8307 |
| cg21870760 | 0.3682 | 0.5907 | -0.2225 | Hypo  | 0.9280 |
| cg21881253 | 0.4989 | 0.0367 | 0.4622  | hyper | 0.9459 |
| cg21983491 | 0.3369 | 0.6871 | -0.3502 | Hypo  | 0.9995 |
| cg22142212 | 0.3770 | 0.7802 | -0.4033 | Hypo  | 0.9802 |
| cg22144942 | 0.5659 | 0.8288 | -0.2629 | Hypo  | 0.8602 |
| cg22333214 | 0.7559 | 0.1081 | 0.6479  | hyper | 1.0000 |
| cg22457503 | 0.3672 | 0.7764 | -0.4092 | Hypo  | 0.9979 |
| cg22492271 | 0.4838 | 0.7746 | -0.2908 | Hypo  | 0.9553 |
| cg22657780 | 0.3137 | 0.0253 | 0.2884  | hyper | 0.8140 |
| cg22745143 | 0.3234 | 0.6343 | -0.3110 | Hypo  | 1.0000 |
| cg22807241 | 0.5031 | 0.8683 | -0.3652 | Hypo  | 0.9708 |
| cg22879515 | 0.6684 | 0.0341 | 0.6343  | hyper | 1.0000 |
| cg22887663 | 0.6859 | 0.8909 | -0.2050 | Hypo  | 0.8169 |
| cg22902499 | 0.5131 | 0.8337 | -0.3206 | Hypo  | 0.8998 |
| cg22929280 | 0.6336 | 0.9176 | -0.2841 | Hypo  | 0.9353 |
| cg22952287 | 0.4404 | 0.6630 | -0.2227 | Hypo  | 0.8339 |
| cg22955387 | 0.9049 | 0.5004 | 0.4045  | hyper | 0.9749 |
| cg23029159 | 0.3747 | 0.7486 | -0.3739 | Hypo  | 1.0000 |
| cg23059797 | 0.5095 | 0.7520 | -0.2424 | Hypo  | 0.9391 |
| cg23073467 | 0.3493 | 0.5741 | -0.2248 | Hypo  | 0.9988 |
| cg23078228 | 0.6280 | 0.8568 | -0.2288 | Hypo  | 0.8727 |
| cg23211240 | 0.5478 | 0.2006 | 0.3472  | hyper | 1.0000 |
| cg23230910 | 0.6474 | 0.9567 | -0.3094 | Hypo  | 0.9309 |
| cg23245720 | 0.8583 | 0.4643 | 0.3940  | hyper | 0.9084 |
| cg23270924 | 0.5818 | 0.7842 | -0.2025 | Hypo  | 0.8646 |
| cg23322812 | 0.4505 | 0.7504 | -0.2999 | Hypo  | 0.9510 |
| cg23474173 | 0.5199 | 0.7450 | -0.2251 | Hypo  | 0.8831 |
| cg23535449 | 0.6323 | 0.8563 | -0.2240 | Hypo  | 0.9136 |
| cg23666362 | 0.4622 | 0.6933 | -0.2311 | Hypo  | 0.9182 |

|            |        |        |         |       |        |
|------------|--------|--------|---------|-------|--------|
| cg23698976 | 0.2772 | 0.6428 | -0.3656 | Hypo  | 0.9778 |
| cg23740016 | 0.7091 | 0.9179 | -0.2088 | Hypo  | 0.8978 |
| cg24041078 | 0.5229 | 0.0492 | 0.4736  | hyper | 0.9632 |
| cg24102420 | 0.4774 | 0.6839 | -0.2065 | Hypo  | 0.8591 |
| cg24141911 | 0.4200 | 0.7484 | -0.3284 | Hypo  | 1.0000 |
| cg24150623 | 0.8203 | 0.5217 | 0.2986  | hyper | 0.9631 |
| cg24185864 | 0.4737 | 0.2445 | 0.2292  | hyper | 0.8145 |
| cg24268663 | 0.6031 | 0.8031 | -0.2000 | Hypo  | 0.8335 |
| cg24343835 | 0.4128 | 0.7335 | -0.3207 | Hypo  | 0.9655 |
| cg24369310 | 0.5821 | 0.8300 | -0.2479 | Hypo  | 0.8525 |
| cg24428232 | 0.3406 | 0.5986 | -0.2580 | Hypo  | 0.9447 |
| cg24480735 | 0.4770 | 0.6837 | -0.2067 | Hypo  | 0.8392 |
| cg24553547 | 0.8798 | 0.5022 | 0.3776  | hyper | 0.9978 |
| cg24554839 | 0.4626 | 0.8748 | -0.4122 | Hypo  | 0.9597 |
| cg24560920 | 0.5755 | 0.8098 | -0.2343 | Hypo  | 0.8453 |
| cg24602572 | 0.4823 | 0.7468 | -0.2645 | Hypo  | 0.8949 |
| cg24605341 | 0.7593 | 0.9810 | -0.2217 | Hypo  | 0.8827 |
| cg24655701 | 0.4579 | 0.6795 | -0.2216 | Hypo  | 0.9141 |
| cg24757159 | 0.2257 | 0.5345 | -0.3089 | Hypo  | 1.0000 |
| cg24853313 | 0.4993 | 0.8185 | -0.3192 | Hypo  | 0.9515 |
| cg25188071 | 0.6670 | 0.8952 | -0.2282 | Hypo  | 0.9050 |
| cg25247520 | 0.2191 | 0.4904 | -0.2712 | Hypo  | 0.9834 |
| cg25249448 | 0.5107 | 0.7448 | -0.2341 | Hypo  | 0.8533 |
| cg25284213 | 0.3384 | 0.6809 | -0.3425 | Hypo  | 1.0000 |
| cg25349643 | 0.5347 | 0.8787 | -0.3439 | Hypo  | 0.9203 |
| cg25353401 | 0.5016 | 0.7064 | -0.2048 | Hypo  | 0.9342 |
| cg25512249 | 0.5526 | 0.8026 | -0.2500 | Hypo  | 0.8517 |
| cg25562958 | 0.4716 | 0.7504 | -0.2788 | Hypo  | 0.8863 |
| cg25575961 | 0.3952 | 0.6929 | -0.2976 | Hypo  | 0.9921 |
| cg25628008 | 0.6230 | 0.3658 | 0.2573  | hyper | 0.8372 |
| cg25696807 | 0.1965 | 0.6425 | -0.4460 | Hypo  | 0.9979 |
| cg25900085 | 0.7041 | 0.2925 | 0.4116  | hyper | 0.9591 |
| cg25950235 | 0.6298 | 0.2040 | 0.4258  | hyper | 0.9821 |
| cg25952096 | 0.6358 | 0.8576 | -0.2218 | Hypo  | 0.8682 |
| cg25972714 | 0.5666 | 0.8313 | -0.2647 | Hypo  | 0.8461 |
| cg26024682 | 0.3285 | 0.6838 | -0.3553 | Hypo  | 0.9646 |
| cg26106778 | 0.5284 | 0.3264 | 0.2020  | hyper | 0.8638 |
| cg26238975 | 0.6204 | 0.9637 | -0.3433 | Hypo  | 0.9359 |
| cg26271891 | 0.2867 | 0.0222 | 0.2646  | hyper | 0.8373 |
| cg26338386 | 0.5429 | 0.8073 | -0.2644 | Hypo  | 0.9937 |
| cg26377653 | 0.2294 | 0.5202 | -0.2908 | Hypo  | 0.9616 |
| cg26475094 | 0.6576 | 0.8845 | -0.2269 | Hypo  | 0.8195 |
| cg26548251 | 0.2696 | 0.7102 | -0.4406 | Hypo  | 0.9996 |

|            |        |        |         |       |        |
|------------|--------|--------|---------|-------|--------|
| cg26551791 | 0.4804 | 0.7278 | -0.2474 | Hypo  | 0.8105 |
| cg26561785 | 0.5002 | 0.2296 | 0.2706  | hyper | 1.0000 |
| cg26754262 | 0.2398 | 0.5646 | -0.3248 | Hypo  | 0.9451 |
| cg26995690 | 0.3773 | 0.7024 | -0.3251 | Hypo  | 0.9535 |
| cg27074221 | 0.3608 | 0.6620 | -0.3012 | Hypo  | 0.9215 |
| cg27261597 | 0.4479 | 0.7993 | -0.3514 | Hypo  | 0.9521 |
| cg27313642 | 0.6136 | 0.4073 | 0.2063  | hyper | 0.9434 |
| cg27442580 | 0.5362 | 0.8779 | -0.3417 | Hypo  | 0.9698 |
| cg27533635 | 0.3425 | 0.6488 | -0.3063 | Hypo  | 0.9716 |

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