

Supplementary Table 6

| chr | pos | strand | Name | UCSC RefGene Name | adj.P.Val | ΔBeta | Tumor |
|-----------|---------------|--------|------------|----------------------|-----------|-------|-------|
| chrX | 15130 6718 | + | cg04950711 | MAGEA10;MAGEA10 | 0.02 | -0.29 | OV |
| chr7 | 10054 4704 | - | cg00644033 | | 0.01 | -0.28 | OV |
| chrX | 52840 736 | - | cg25993152 | XAGE5 | 0.02 | -0.27 | OV |
| chr1 0 | 44881 551 | + | cg00499822 | CXCL12;CXCL12;CXCL12 | 0.00 | -0.21 | OV |
| chr1 9 | 29011 47 | - | cg08634464 | ZNF57 | 0.01 | -0.20 | OV |
| chr6 | 41130 718 | + | cg20095587 | TREM2 | 0.05 | -0.19 | OV |
| chr9 | 11790 5075 | + | cg04761824 | 1-Dec | 0.01 | -0.18 | OV |
| chr1 9 | 42260 485 | - | cg26813458 | CEACAM6 | 0.02 | -0.17 | OV |
| chr7 | 99573 278 | + | cg19465374 | AZGP1 | 0.03 | -0.17 | OV |
| chrX | 15130 7053 | - | cg19964192 | MAGEA10;MAGEA10 | 0.00 | -0.16 | OV |
| chr1 4 | 96152 109 | + | cg27504299 | TCL1B;TCL1B | 0.02 | -0.16 | OV |
| chr2 0 | 57427 830 | + | cg17414107 | GNAS;GNAS;GNAS | 0.02 | -0.16 | OV |
| chr1 | 15925 8877 | - | cg14696870 | FCER1A | 0.04 | -0.16 | OV |
| chr1 9 | 15123 14 | - | cg04601137 | ADAMTSL5 | 0.02 | -0.15 | OV |
| chr5 | 54281 336 | - | cg20451680 | ESM1;ESM1 | 0.03 | -0.15 | OV |
| chr4 | 69111 580 | + | cg19510180 | TMPRSS11B | 0.02 | -0.15 | OV |
| chr6 | 32731 327 | - | cg04345908 | HLA-DQB2 | 0.03 | -0.15 | OV |
| chr2 | 95537 475 | - | cg05723825 | TEKT4 | 0.00 | -0.15 | OV |
| chrX | 11837 0356 | - | cg07876586 | PGRMC1 | 0.00 | -0.15 | OV |
| chr2 0 | 57427 738 | + | cg27661264 | GNAS;GNAS;GNAS | 0.03 | -0.14 | OV |
| chr3 | 66550 735 | + | cg26131019 | LRIG1 | 0.00 | -0.14 | OV |
| chr6 | 11001 1156 | - | cg01500097 | AKD1;FIG4;AKD1 | 0.05 | -0.13 | OV |
| chr1 7 | 39197 721 | - | cg02022375 | KRTAP1-1 | 0.01 | -0.13 | OV |
| chr1 1 | 55703 443 | - | cg25890048 | OR511 | 0.01 | -0.12 | OV |
| chr1 9 | 10736 038 | - | cg17826679 | SLC44A2;SLC44A2 | 0.03 | -0.12 | OV |

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|-----------|---------------|---|----------------|-------------------------------------|----------|-------|------|
| chr6 | 10976 0831 | + | cg20811607 | PPIL6;PPIL6;S MPD2 | 0.01 | -0.11 | OV |
| chr1 | 20305 9178 | - | cg13626881 | | 0.04 | -0.11 | OV |
| chr2 1 | 45705 686 | - | cg17356252 | AIRE | 0.02 | -0.11 | OV |
| chrX | 10074 0937 | + | cg14457691 | ARMCX4 | 0.05 | -0.10 | OV |
| chr1 | 35220 814 | - | cg01333788 | GJB5 | 0.02 | -0.10 | OV |
| chr2 | 23900 9036 | - | cg09039163 | ESPNL;ESPNL | 0.02 | -0.10 | OV |
| chrX | 69487 197 | - | cg11494656 | ARR3 | 0.04 | -0.10 | OV |
| chrX | 41783 155 | - | cg16269097 | CASK;CASK;C ASK | 0.03 | -0.10 | OV |
| chrX | 15208 6723 | - | cg16022279 | ZNF185 | 0.01 | -0.10 | OV |
| chrX | 15344 8957 | + | cg06325687 | OPN1MW2;OP N1MW | 0.03 | -0.10 | OV |
| chr2 1 | 36421 472 | + | cg04915566 | RUNX1;RUNX1 | 0.01 | 0.11 | OV |
| chr1 2 | 15373 987 | - | cg19205533 | RERG | 0.03 | 0.14 | OV |
| chr1 1 | 85780 971 | + | cg01120308 | PICALM;PICAL M | 0.03 | 0.14 | OV |
| chr1 6 | 56642 024 | + | cg17886959 | MT2A | 0.01 | 0.14 | OV |
| chr3 | 11185 2156 | + | cg25462303 | GCET2;GCET2 | 0.02 | 0.14 | OV |
| chr1 | 16303 9012 | - | cg22605643 | RGS4;RGS4;R GS4;RGS4 | 0.04 | 0.17 | OV |
| chr1 2 | 15114 703 | - | cg10925082 | ARHGDI | 0.03 | 0.20 | OV |
| chr1 4 | 39735 211 | + | cg13277939 | CTAGE5;CTAG E5;CTAGE5;CT AGE5 | 0.04 | 0.23 | OV |
| chr1 9 | 49249 932 | - | cg10234985 | IZUMO1;IZUM O1 | 0.05 | 0.26 | OV |
| chr1 9 | 29011 47 | - | cg08634464 | ZNF57 | 5.30E-20 | -0.34 | BRCA |
| chr1 1 | 65405 362 | - | cg25361844 | SIPA1 | 6.79E-05 | -0.29 | BRCA |
| chr3 | 13925 8939 | + | cg23363832 | RBP1;RBP1;RB P1 | 1.22E-04 | -0.25 | BRCA |
| chr8 | 23083 353 | - | cg26530341 | TNFRSF10A | 5.20E-10 | -0.24 | BRCA |
| chr5 | 11869 1033 | - | cg07086380 | TNFAIP8;TNFA IP8 | 1.06E-08 | -0.23 | BRCA |
| chr3 | 66550 735 | + | Cg 26131019 | LRIG1 | 4.62E-88 | -0.22 | BRCA |
| chr1 5 | 48936 953 | - | cg18671950 | FBN1 | 2.53E-02 | -0.22 | BRCA |

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|-----------|---------------|---|------------|--|----------|-------|------|
| chr9 | 90113 813 | - | cg15746719 | DAPK1 | 9.82E-08 | -0.21 | BRCA |
| chr2 | 20209 8951 | - | cg26799474 | CASP8;CASP8; CASP8;CASP8 | 5.35E-04 | -0.19 | BRCA |
| chr8 | 10979 9756 | + | cg15042080 | TMEM74;TME M74 | 5.17E-03 | -0.19 | BRCA |
| chr3 | 14283 8847 | - | cg00995327 | CHST2;CHST2 | 2.95E-02 | -0.17 | BRCA |
| chr1 1 | 44330 903 | + | cg26365854 | ALX4 | 3.26E-03 | -0.16 | BRCA |
| chr1 7 | 33701 321 | - | cg18108623 | SLFN11;SLFN1 1;SLFN11;SLF N11;SLFN11 | 3.45E-02 | -0.16 | BRCA |
| chr1 0 | 64575 798 | - | cg19355190 | EGR2;EGR2;E GR2;EGR2;EG R2 | 1.25E-02 | -0.16 | BRCA |
| chr1 6 | 14302 16 | - | cg11911951 | UNKL | 4.38E-04 | -0.16 | BRCA |
| chr1 7 | 25798 973 | - | cg05246522 | KSR1 | 2.42E-02 | -0.15 | BRCA |
| chr3 | 49378 032 | + | cg18886444 | USP4;USP4 | 1.29E-05 | -0.15 | BRCA |
| chr1 1 | 44327 399 | - | cg04970352 | ALX4 | 1.18E-02 | -0.14 | BRCA |
| chr1 0 | 12969 1429 | + | cg23817637 | CLRN3 | 4.08E-17 | -0.14 | BRCA |
| chr1 4 | 85996 495 | + | cg17410236 | FLRT2;FLRT2 | 2.44E-02 | -0.14 | BRCA |
| chr1 5 | 10141 9074 | - | cg23191950 | ALDH1A3 | 5.06E-06 | -0.14 | BRCA |
| chr1 1 | 65405 903 | - | cg26668713 | SIPA1 | 6.72E-06 | -0.14 | BRCA |
| chr4 | 48485 233 | - | cg19283196 | SLC10A4 | 3.37E-02 | -0.14 | BRCA |
| chr8 | 13377 2889 | + | cg20955688 | TMEM71;TME M71;TMEM71;T MEM71 | 3.05E-04 | -0.13 | BRCA |
| chr2 0 | 56286 697 | + | cg00138126 | PMEPA1;PMEP A1;PMEPA1 | 2.68E-04 | -0.13 | BRCA |
| chr1 9 | 33863 876 | - | cg15046693 | CEBPG | 1.00E-05 | -0.13 | BRCA |
| chr1 0 | 82049 429 | + | cg19423196 | MAT1A;MAT1A | 4.97E-03 | -0.13 | BRCA |
| chr3 | 12045 459 | - | cg15873301 | SYN2;SYN2 | 8.05E-05 | -0.13 | BRCA |
| chr5 | 76114 373 | - | cg24573501 | F2RL1 | 2.52E-03 | -0.13 | BRCA |
| chr2 | 23900 9036 | - | cg09039163 | ESPNL;ESPNL | 5.30E-20 | -0.13 | BRCA |
| chr1 7 | 80186 273 | - | cg14417329 | SLC16A3;SLC1 6A3 | 3.20E-12 | -0.13 | BRCA |
| chr7 | 49813 763 | - | cg00333226 | VWC2 | 6.08E-03 | -0.13 | BRCA |
| chr1 9 | 67391 92 | - | cg02085507 | TRIP10 | 1.85E-02 | -0.13 | BRCA |

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| chr8 | 82192 606 | + | cg19904463 | FABP5 | 9.78E-06 | -0.13 | BRCA |
| chr1 | 25255 838 | + | cg00117172 | RUNX3;RUNX3 | 2.27E-03 | -0.13 | BRCA |
| chr8 | 12598 4927 | + | cg23968383 | ZNF572 | 3.71E-08 | -0.13 | BRCA |
| chr9 | 36037 454 | + | cg12717594 | RECK | 3.69E-03 | -0.12 | BRCA |
| chr1 7 | 46800 639 | - | cg01543654 | C17orf93;PRAC | 2.07E-02 | -0.12 | BRCA |
| chr2 | 46523 461 | - | cg17518825 | EPAS1 | 2.60E-14 | -0.12 | BRCA |
| chr2 | 43019 614 | - | cg20289949 | HAAO | 1.52E-02 | -0.12 | BRCA |
| chr1 9 | 35981 677 | - | cg10305797 | KRTDAP | 1.77E-05 | -0.12 | BRCA |
| chr1 3 | 78492 916 | - | cg23316360 | EDNRB;EDNR B;EDNRB;EDN RB;EDNRB | 9.00E-03 | -0.12 | BRCA |
| chr1 4 | 76045 348 | + | cg04001333 | FLVCR2 | 1.32E-08 | -0.12 | BRCA |
| chr1 8 | 28473 09 | + | cg09009111 | EMILIN2 | 1.73E-02 | -0.12 | BRCA |
| chr1 7 | 27369 780 | + | cg06144905 | PIPOX | 6.44E-03 | -0.12 | BRCA |
| chr6 | 11079 7497 | + | cg22334665 | SLC22A16 | 4.34E-03 | -0.12 | BRCA |
| chr9 | 34263 021 | + | cg19947621 | KIF24 | 1.77E-04 | -0.12 | BRCA |
| chr1 | 76540 465 | - | cg12601757 | ST6GALNAC3; ST6GALNAC3; ST6GALNAC3; ST6GALNAC3 | 3.40E-02 | -0.12 | BRCA |
| chr9 | 90114 156 | - | cg24754277 | DAPK1 | 6.56E-04 | -0.12 | BRCA |
| chr8 | 27850 178 | + | cg07634191 | SCARA5;SCAR A5 | 1.78E-05 | -0.12 | BRCA |
| chr7 | 23510 648 | - | cg02860543 | IGF2BP3 | 3.39E-02 | -0.11 | BRCA |
| chr3 | 13925 8822 | + | cg06543018 | RBP1;RBP1;RB P1 | 9.24E-08 | -0.11 | BRCA |
| chr6 | 15177 2946 | - | cg00510787 | C6orf211;RMN D1 | 2.60E-14 | -0.11 | BRCA |
| chr2 | 10830 764 | - | cg02196655 | NOL10 | 1.42E-04 | -0.11 | BRCA |
| chr1 7 | 39197 721 | - | cg02022375 | KRTAP1-1 | 5.68E-08 | -0.11 | BRCA |
| chr3 | 71834 640 | + | cg08555612 | PROK2;PROK2 | 6.97E-03 | -0.11 | BRCA |
| chr1 | 15879 9935 | - | cg25119415 | MNDA | 6.20E-03 | -0.11 | BRCA |
| chr1 7 | 27944 585 | - | cg06038133 | CORO6 | 1.79E-03 | -0.11 | BRCA |
| chr1 2 | 11245 2424 | - | cg26789453 | TMEM116;ERP 29;ERP29 | 3.34E-03 | -0.11 | BRCA |

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|-----------|---------------|---|------------|---|----------|-------|------|
| chr1 5 | 10141 9017 | - | cg19224278 | ALDH1A3 | 4.36E-04 | -0.11 | BRCA |
| chr2 0 | 53092 781 | + | cg11822659 | DOK5 | 4.40E-06 | -0.11 | BRCA |
| chr8 | 13377 2742 | + | cg27159719 | TMEM71;TME M71;TMEM71;T MEM71 | 2.10E-03 | -0.11 | BRCA |
| chr1 9 | 39687 963 | + | cg19917856 | NCCRP1 | 1.03E-02 | -0.11 | BRCA |
| chr1 | 23404 0833 | - | cg25437385 | SLC35F3 | 4.24E-02 | -0.11 | BRCA |
| chr3 | 14893 9523 | - | cg17439694 | CP | 2.96E-11 | -0.11 | BRCA |
| chr1 | 20315 6246 | - | cg07423149 | CHI3L1 | 1.22E-02 | -0.11 | BRCA |
| chr4 | 11155 7894 | - | cg05522383 | PITX2;PITX2 | 9.50E-03 | -0.11 | BRCA |
| chr1 2 | 75728 469 | - | cg21087137 | GLIPR1L1;GLIP R1L1 | 6.41E-03 | -0.10 | BRCA |
| chr1 7 | 10102 558 | - | cg13991233 | GAS7 | 2.30E-03 | -0.10 | BRCA |
| chr8 | 41165 699 | - | cg02388150 | SFRP1 | 6.32E-04 | -0.10 | BRCA |
| chr3 | 44902 933 | - | cg16615211 | MIR564;TMEM 42 | 1.90E-02 | -0.10 | BRCA |
| chr1 7 | 66166 53 | - | cg16652063 | SLC13A5;SLC1 3A5;SLC13A5; SLC13A5 | 2.89E-02 | -0.10 | BRCA |
| chr1 | 20581 9179 | + | cg14159672 | PM20D1 | 8.63E-11 | -0.10 | BRCA |
| chr1 | 17181 0972 | - | cg23391785 | DNM3;DNM3 | 6.27E-04 | -0.10 | BRCA |
| chr1 8 | 56530 302 | + | cg12406559 | ZNF532;ZNF53 2 | 3.21E-02 | -0.10 | BRCA |
| chr1 3 | 47469 654 | + | cg00308665 | HTR2A;HTR2A | 1.49E-03 | 0.10 | BRCA |
| chr1 9 | 66397 3 | + | cg03605761 | RNF126 | 1.39E-06 | 0.10 | BRCA |
| chr8 | 25281 609 | + | cg22502171 | GNRH1;GNRH 1;GNRH1 | 1.98E-06 | 0.10 | BRCA |
| chr1 6 | 30406 122 | + | cg16014085 | ZNF48 | 2.45E-03 | 0.10 | BRCA |
| chr1 9 | 14920 43 | - | cg02674804 | REEP6 | 5.63E-05 | 0.10 | BRCA |
| chr3 | 12233 4227 | - | cg22468055 | PARP15;PARP 15 | 1.65E-05 | 0.10 | BRCA |
| chr6 | 29455 532 | + | cg01078434 | MAS1L | 3.47E-02 | 0.10 | BRCA |
| chr1 6 | 15527 940 | - | cg07977490 | C16orf45 | 3.87E-09 | 0.10 | BRCA |
| chr4 | 26493 496 | - | cg04353483 | CCKAR | 1.77E-02 | 0.10 | BRCA |
| chr1 8 | 48189 538 | - | cg26946769 | MAPK4 | 5.74E-03 | 0.10 | BRCA |

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|-----------|---------------|---|------------|-----------------------------|----------|------|------|
| chr1 8 | 63417 392 | + | cg04564030 | CDH7;CDH7 | 2.87E-02 | 0.11 | BRCA |
| chr2 2 | 37916 157 | + | cg22506059 | CARD10 | 3.19E-08 | 0.11 | BRCA |
| chr1 7 | 46622 491 | - | cg09313705 | HOXB2 | 2.21E-04 | 0.11 | BRCA |
| chr1 9 | 58262 242 | - | cg02682905 | ZNF776 | 6.63E-04 | 0.11 | BRCA |
| chr2 0 | 43935 361 | + | cg21835643 | MATN4;MATN4 ;RBPJL;MATN4 | 3.59E-02 | 0.11 | BRCA |
| chr1 | 47155 20 | - | cg17525406 | AJAP1;AJAP1 | 3.61E-02 | 0.11 | BRCA |
| chr2 0 | 44657 948 | + | cg22752533 | SLC12A5;SLC1 2A5;SLC12A5 | 1.29E-03 | 0.11 | BRCA |
| chr8 | 80523 461 | - | cg23326689 | STMN2 | 4.31E-06 | 0.11 | BRCA |
| chr7 | 64126 140 | + | cg12856392 | ZNF107;ZNF10 7 | 5.26E-05 | 0.11 | BRCA |
| chr1 | 20332 0223 | - | cg03764585 | FMOD;FMOD | 3.40E-06 | 0.11 | BRCA |
| chr4 | 58950 98 | + | cg22680204 | CRMP1 | 1.44E-02 | 0.11 | BRCA |
| chr1 7 | 66950 545 | - | cg21660392 | ABCA8 | 2.92E-03 | 0.11 | BRCA |
| chr3 | 11236 0952 | + | cg21307628 | CCDC80;CCDC 80 | 2.72E-04 | 0.11 | BRCA |
| chr7 | 89840 731 | + | cg27626102 | STEAP2;STEA P2 | 4.71E-05 | 0.11 | BRCA |
| chr5 | 24645 487 | - | cg01058368 | CDH10 | 1.24E-06 | 0.11 | BRCA |
| chr3 | 18738 8225 | + | cg13206017 | SST | 1.48E-03 | 0.11 | BRCA |
| chr5 | 36301 436 | - | cg26511075 | RANBP3L;RAN BP3L | 2.37E-04 | 0.11 | BRCA |
| chr6 | 31088 188 | + | cg08424423 | CDSN;PSORS1 C1 | 7.08E-06 | 0.11 | BRCA |
| chr2 | 18254 4413 | - | cg02836529 | NEUROD1 | 5.08E-04 | 0.11 | BRCA |
| chr2 0 | 15386 71 | - | cg25737664 | SIRPD | 1.89E-02 | 0.11 | BRCA |
| chr1 6 | 60688 35 | - | cg19378133 | A2BP1;A2BP1 | 2.18E-03 | 0.11 | BRCA |
| chr1 | 15100 9588 | - | cg11584936 | BNIPL;BNIPL | 5.26E-03 | 0.11 | BRCA |
| chr1 | 15328 3994 | - | cg06275635 | PGLYRP3 | 1.73E-02 | 0.11 | BRCA |
| chr1 6 | 31214 417 | - | cg12100791 | PYCARD;PYCA RD | 1.45E-03 | 0.11 | BRCA |
| chr1 0 | 17171 695 | - | cg10707565 | CUBN | 2.27E-03 | 0.11 | BRCA |
| chr4 | 16900 199 | - | cg08899626 | LDB2;LDB2;LD B2;LDB2 | 4.64E-03 | 0.11 | BRCA |
| chr4 | 68324 0 | + | cg17952262 | MFSD7 | 9.54E-05 | 0.12 | BRCA |

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|------|---------------|---|------------|---|----------|------|------|
| chr3 | 18656 0617 | - | cg03573747 | ADIPOQ | 4.38E-05 | 0.12 | BRCA |
| chr1 | 33160 791 | - | cg05342835 | SYNC;SYNC | 6.32E-11 | 0.12 | BRCA |
| chr1 | 10416 0257 | + | cg22215192 | AMY2A | 4.85E-06 | 0.12 | BRCA |
| chr3 | 86937 06 | + | cg22959932 | C3orf32;C3orf3 2 | 2.16E-05 | 0.12 | BRCA |
| chr3 | 58523 313 | + | cg13705284 | ACOX2 | 1.80E-08 | 0.12 | BRCA |
| chr6 | 16727 5395 | - | cg13217373 | RPS6KA2 | 7.81E-07 | 0.12 | BRCA |
| chr8 | 64205 06 | - | cg24670715 | ANGPT2;ANGP T2;ANGPT2;AN GPT2;ANGPT2; ANGPT2;MCPH 1 | 5.15E-05 | 0.12 | BRCA |
| chr2 | 39928 0631 | - | cg22294908 | ZHX3;ZHX3 | 1.16E-02 | 0.12 | BRCA |
| chr1 | 20631 7403 | + | cg21478437 | CTSE;CTSE | 1.23E-04 | 0.12 | BRCA |
| chr5 | 14058 8299 | + | cg07899016 | PCDHB12;PCD HB12 | 7.69E-04 | 0.12 | BRCA |
| chr1 | 11867 308 | - | cg14472778 | CLCN6;CLCN6; CLCN6;CLCN6; MTHFR | 1.48E-05 | 0.12 | BRCA |
| chr9 | 10424 8926 | + | cg06912252 | C9orf125 | 5.46E-03 | 0.12 | BRCA |
| chr1 | 36004 761 | + | cg13246592 | P2RX5;P2RX5; P2RX5 | 3.48E-04 | 0.12 | BRCA |
| chr1 | 57148 215 | - | cg24459209 | PRG3 | 1.20E-05 | 0.12 | BRCA |
| chr1 | 80946 079 | + | cg04765277 | FLJ45983;FLJ4 5983 | 3.33E-03 | 0.12 | BRCA |
| chr1 | 49449 2136 | + | cg13007988 | MLL2 | 1.71E-03 | 0.12 | BRCA |
| chr1 | 11463 2844 | + | cg22692158 | PRB4 | 4.19E-06 | 0.12 | BRCA |
| chr7 | 11405 5419 | + | cg05232889 | FOXP2;FOXP2; FOXP2 | 4.55E-04 | 0.12 | BRCA |
| chr6 | 30659 643 | + | cg16979445 | NRM | 1.62E-03 | 0.12 | BRCA |
| chr1 | 64624 152 | + | cg11547724 | HPX | 8.66E-07 | 0.12 | BRCA |
| chr6 | 16672 2773 | + | cg05089968 | PRR18 | 2.93E-05 | 0.12 | BRCA |
| chr5 | 95467 55 | - | cg03702236 | SEMA5A | 7.33E-06 | 0.12 | BRCA |
| chr1 | 21525 2662 | - | cg15583072 | SLCO1A2;IAPP | 9.54E-05 | 0.12 | BRCA |
| chr1 | 18362 2007 | - | cg20579480 | APOBEC4;RGL 1 | 1.46E-05 | 0.12 | BRCA |
| chr1 | 23653 4098 | + | cg27035169 | SLC7A8 | 1.30E-11 | 0.12 | BRCA |

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|-----------|---------------|---|------------|---|----------|------|------|
| chr1 1 | 63272 554 | + | cg11484576 | LGALS12;LGALS12;LGALS12 | 1.93E-06 | 0.13 | BRCA |
| chr7 | 87855 714 | + | cg02399455 | SRI | 1.45E-03 | 0.13 | BRCA |
| chr2 0 | 58507 171 | + | cg07347645 | SYCP2;SYCP2 | 2.87E-02 | 0.13 | BRCA |
| chr1 | 29852 18 | + | cg08528984 | FLJ42875;PRDM16;PRDM16;FLJ42875 | 8.57E-03 | 0.13 | BRCA |
| chr1 7 | 48546 118 | - | cg06958829 | ACSF2;CHAD | 2.60E-08 | 0.13 | BRCA |
| chr8 | 14412 0106 | - | cg07770222 | C8orf31 | 1.52E-03 | 0.13 | BRCA |
| chr1 2 | 53208 762 | + | cg12610744 | KRT4 | 5.06E-06 | 0.13 | BRCA |
| chr2 | 16734 3774 | + | cg05331214 | SCN7A | 3.49E-03 | 0.13 | BRCA |
| chr1 | 15516 1784 | - | cg24512973 | MUC1;MUC1;MUC1;MUC1;MUC1;MUC1 | 5.45E-09 | 0.13 | BRCA |
| chr2 | 12122 3909 | - | cg17204557 | LOC84931 | 1.06E-07 | 0.13 | BRCA |
| chr8 | 13205 4555 | - | cg13912117 | | 8.58E-03 | 0.13 | BRCA |
| chr1 | 19723 8398 | + | cg00321478 | CRB1 | 1.55E-04 | 0.13 | BRCA |
| chr2 2 | 42896 688 | + | cg12078929 | SERHL | 4.76E-07 | 0.13 | BRCA |
| chr1 7 | 79424 06 | - | cg15799267 | ALOX15B;ALOX15B;ALOX15B;ALOX15B;ALOX15B | 7.56E-04 | 0.13 | BRCA |
| chr2 0 | 58533 443 | + | cg20895028 | CDH26 | 1.88E-04 | 0.13 | BRCA |
| chr2 | 22028 3175 | + | cg18182399 | DES;DES | 7.15E-05 | 0.13 | BRCA |
| chr3 | 11395 7903 | - | cg03109316 | ZNF80 | 1.83E-02 | 0.13 | BRCA |
| chr2 | 11969 9682 | - | cg11009736 | MARCO | 1.67E-05 | 0.14 | BRCA |
| chr1 | 20703 9302 | - | cg23282674 | IL20 | 2.02E-04 | 0.14 | BRCA |
| chr5 | 95769 008 | + | cg23187653 | PCSK1 | 8.52E-04 | 0.14 | BRCA |
| chr1 0 | 10892 3781 | - | cg16415058 | SORCS1;SORCS1 | 8.75E-08 | 0.14 | BRCA |
| chr2 | 18373 1407 | + | cg20308679 | FRZB;FRZB | 8.79E-06 | 0.14 | BRCA |
| chr1 | 20161 7042 | + | cg25167447 | NAV1 | 9.82E-08 | 0.14 | BRCA |
| chr1 7 | 48637 104 | - | cg05942574 | CACNA1G;CACNA1G;CACNA1G;CACNA1G;CACNA1G | 8.28E-05 | 0.14 | BRCA |

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|------|-------------------|---|------------|---|----------|------|------|
| | | | | A1G;CACNA1G ;CACNA1G;CA CNA1G;CACNA 1G;CACNA1G; CACNA1G;CAC NA1G;CACNA1 G;CACNA1G | | | |
| chr1 | 22601 2913 | - | cg24928687 | EPHX1;EPHX1 | 7.86E-04 | 0.14 | BRCA |
| chr2 | 58533 0 495 | - | cg24607535 | CDH26;CDH26 | 1.57E-03 | 0.14 | BRCA |
| chr1 | 15052 9 824 | - | cg03544379 | OR7C2 | 3.09E-03 | 0.14 | BRCA |
| chr1 | 16330 784 | - | cg24525573 | C1orf64;C1orf6 4 | 9.69E-05 | 0.14 | BRCA |
| chr1 | 99177 4 777 | - | cg06906435 | C14orf177 | 6.04E-03 | 0.15 | BRCA |
| chr1 | 80946 0 41 | - | cg00779924 | FLJ45983;FLJ4 5983 | 1.96E-03 | 0.15 | BRCA |
| chr1 | 33795 7 67 | + | cg02228185 | ASPA;ASPA | 9.39E-07 | 0.15 | BRCA |
| chr1 | 15301 3830 | - | cg14826683 | SPRR2D | 1.13E-03 | 0.15 | BRCA |
| chr1 | 91124 1 71 | - | cg01081263 | SCUBE2;SCUB E2 | 4.06E-09 | 0.15 | BRCA |
| chr1 | 26223 0 310 | - | cg23771603 | MYO3A | 6.06E-03 | 0.15 | BRCA |
| chr1 | 52391 9 250 | + | cg16731240 | ZNF577;ZNF57 7;ZNF577 | 1.87E-06 | 0.15 | BRCA |
| chr3 | 19531 0883 | - | cg05624196 | APOD;APOD | 2.39E-05 | 0.16 | BRCA |
| chr5 | 13707 1523 | + | cg13847070 | KLHL3;KLHL3 | 3.06E-05 | 0.16 | BRCA |
| chr1 | 18494 4288 | - | cg25182523 | FAM129A | 1.94E-07 | 0.16 | BRCA |
| chr1 | 26743 1 425 | + | cg05953243 | SLC5A12;SLC5 A12 | 4.59E-04 | 0.16 | BRCA |
| chr7 | 86973 677 | - | cg15350036 | CROT;CROT;C ROT;TP53TG1 | 5.74E-06 | 0.16 | BRCA |
| chr6 | 56112 291 | - | cg13830624 | COL21A1;COL 21A1 | 2.35E-02 | 0.16 | BRCA |
| chr1 | 20305 8954 | - | cg11719784 | | 2.99E-04 | 0.17 | BRCA |
| chr1 | 55400 8 167 | - | cg18085435 | ATP8B1 | 4.21E-05 | 0.17 | BRCA |
| chr1 | 38615 2 67 | + | cg17904739 | EFCAB4B;EFC AB4B;EFCAB4 B | 1.03E-09 | 0.17 | BRCA |
| chr4 | 76555 547 | - | cg14988503 | CDKL2;CDKL2 | 3.41E-02 | 0.17 | BRCA |
| chr3 | 18409 5505 | + | cg11819637 | THPO | 6.77E-07 | 0.17 | BRCA |

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|-----------|---------------|---|------------|-------------------------------|----------|-------|------|
| chr1 5 | 45803 341 | + | cg08057475 | SLC30A4;C15orf21 | 5.84E-04 | 0.17 | BRCA |
| chr2 | 15728 0411 | - | cg24579667 | | 4.93E-05 | 0.18 | BRCA |
| chr1 | 17301 9720 | - | cg19589427 | TNFSF18 | 3.09E-06 | 0.18 | BRCA |
| chr1 7 | 48546 620 | - | cg06818777 | CHAD;ACSF2 | 5.86E-07 | 0.18 | BRCA |
| chr1 1 | 26744 467 | - | cg20092728 | SLC5A12 | 5.91E-03 | 0.18 | BRCA |
| chr1 8 | 70535 925 | + | cg21922574 | NETO1 | 2.66E-06 | 0.18 | BRCA |
| chr6 | 50786 670 | + | cg25593948 | TFAP2B | 1.99E-04 | 0.18 | BRCA |
| chr5 | 13944 491 | - | cg03503295 | DNAH5 | 8.39E-06 | 0.18 | BRCA |
| chr1 6 | 56672 415 | - | cg09137696 | MT1A | 1.20E-03 | 0.19 | BRCA |
| chr4 | 14117 8469 | + | cg04457051 | SCOC;SCOC | 3.04E-10 | 0.19 | BRCA |
| chr1 2 | 11062 035 | - | cg08658594 | TAS2R13;TAS2R13;PRR4;PRH1 | 7.08E-08 | 0.19 | BRCA |
| chr6 | 13736 6322 | + | cg22487322 | IL20RA | 4.97E-16 | 0.20 | BRCA |
| chr1 6 | 28674 34 | - | cg22730830 | PRSS21;PRSS21;PRSS21 | 2.26E-19 | 0.21 | BRCA |
| chr1 | 20332 0386 | - | cg26987645 | FMOD | 8.72E-14 | 0.22 | BRCA |
| chr1 2 | 64837 39 | - | cg18738906 | SCNN1A;SCNN1A;SCNN1A | 9.84E-06 | 0.23 | BRCA |
| chr1 7 | 49295 615 | - | cg02880679 | MBTD1 | 3.04E-06 | 0.23 | BRCA |
| chr1 | 24802 0812 | - | cg07533148 | TRIM58 | 1.24E-04 | 0.27 | BRCA |
| chr1 | 16825 0628 | + | cg17095936 | TBX19 | 9.72E-08 | 0.35 | BRCA |
| chr1 0 | 13504 4114 | + | cg09053680 | UTF1 | 0.03 | -0.48 | UCEC |
| chr6 | 73332 073 | - | cg24687051 | KCNQ5;KCNQ5;KCNQ5;KCNQ5;KCNQ5 | 0.00 | -0.48 | UCEC |
| chr2 | 68546 507 | - | cg07080358 | CNRIP1;CNRIP1 | 0.01 | -0.45 | UCEC |
| chr1 1 | 20690 957 | + | cg17371081 | NELL1;NELL1 | 0.01 | -0.43 | UCEC |
| chr1 8 | 55438 01 | + | cg00027083 | EPB41L3 | 0.03 | -0.39 | UCEC |
| chr1 8 | 49866 548 | + | cg21669679 | DCC;DCC | 0.01 | -0.36 | UCEC |
| chr4 | 16587 8091 | - | cg00393585 | C4orf39;TRIM61 | 0.01 | -0.35 | UCEC |
| chr1 2 | 85306 916 | + | cg03064067 | SLC6A15;SLC6A15;SLC6A15 | 0.00 | -0.34 | UCEC |

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|-----------|---------------|---|------------|---|------|-------|------|
| chr1 4 | 38677 218 | + | cg27590397 | SSTR1;SSTR1 | 0.01 | -0.33 | UCEC |
| chr1 8 | 74962 369 | + | cg04534765 | GALR1;GALR1 | 0.02 | -0.32 | UCEC |
| chr1 8 | 74961 787 | + | cg10486998 | GALR1 | 0.03 | -0.32 | UCEC |
| chr1 4 | 27066 634 | - | cg18488855 | NOVA1;NOVA1 ;NOVA1 | 0.02 | -0.31 | UCEC |
| chr5 | 16097 5024 | + | cg01939681 | GABRB2;GABR B2 | 0.01 | -0.31 | UCEC |
| chr1 9 | 29011 47 | - | cg08634464 | ZNF57 | 0.00 | -0.30 | UCEC |
| chr1 0 | 17796 67 | + | cg05307923 | ADARB2;ADAR B2 | 0.01 | -0.30 | UCEC |
| chr1 6 | 85932 853 | - | cg24826867 | IRF8 | 0.02 | -0.30 | UCEC |
| chr1 8 | 74961 785 | + | cg15343119 | GALR1 | 0.03 | -0.30 | UCEC |
| chr2 | 21022 565 | - | cg09109450 | C2orf43 | 0.00 | -0.28 | UCEC |
| chr1 8 | 63417 392 | + | cg04564030 | CDH7;CDH7 | 0.04 | -0.28 | UCEC |
| chr4 | 66535 145 | + | cg18420965 | EPHA5;EPHA5 | 0.01 | -0.26 | UCEC |
| chr1 9 | 46477 338 | + | cg21461100 | NOVA2 | 0.01 | -0.26 | UCEC |
| chr1 8 | 74961 727 | + | cg26721264 | GALR1 | 0.03 | -0.26 | UCEC |
| chr2 1 | 31312 091 | + | cg09542111 | GRIK1;GRIK1; GRIK1;GRIK1 | 0.02 | -0.26 | UCEC |
| chr2 0 | 53092 781 | + | cg11822659 | DOK5 | 0.01 | -0.25 | UCEC |
| chr2 | 45169 447 | + | cg13163729 | SIX3 | 0.01 | -0.25 | UCEC |
| chr1 1 | 13178 0332 | - | cg20881910 | NTM;NTM;NTM ;NTM | 0.02 | -0.25 | UCEC |
| chr1 2 | 85306 474 | - | cg14449051 | SLC6A15;SLC6 A15;SLC6A15; SLC6A15;SLC6 A15;SLC6A15 | 0.02 | -0.25 | UCEC |
| chr1 0 | 12807 6936 | + | cg11668923 | ADAM12;ADAM 12;ADAM12;AD AM12 | 0.05 | -0.25 | UCEC |
| chr3 | 12045 459 | - | cg15873301 | SYN2;SYN2 | 0.01 | -0.24 | UCEC |
| chr6 | 73331 652 | + | cg15717808 | KCNQ5;KCNQ5 ;KCNQ5;KCNQ 5;KCNQ5;KCN Q5;KCNQ5;KC NQ5;KCNQ5;K CNQ5 | 0.01 | -0.24 | UCEC |
| chr1 | 53528 612 | - | cg23092823 | PODN | 0.05 | -0.23 | UCEC |
| chr8 | 24815 006 | + | cg13266631 | NEFL | 0.02 | -0.23 | UCEC |

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|-----------|---------------|---|------------|---|------|-------|------|
| chr5 | 45695 922 | - | cg06498267 | HCN1 | 0.01 | -0.22 | UCEC |
| chr4 | 42285 71 | + | cg14882700 | OTOP1 | 0.02 | -0.22 | UCEC |
| chr1 | 15890 1938 | + | cg19884600 | PYHIN1;PYHIN 1;PYHIN1;PYHI N1 | 0.03 | -0.22 | UCEC |
| chr7 | 75245 6 | + | cg13577076 | PRKAR1B;PRK AR1B;PRKAR1 B;PRKAR1B;P RKAR1B;PRKA R1B | 0.01 | -0.22 | UCEC |
| chr1 8 | 31020 511 | - | cg05245861 | C18orf34;C18or f34 | 0.02 | -0.21 | UCEC |
| chr2 1 | 31312 328 | - | cg21816539 | GRIK1;GRIK1 | 0.01 | -0.21 | UCEC |
| chr8 | 73450 181 | + | cg20890210 | KCNB2 | 0.04 | -0.21 | UCEC |
| chr1 0 | 12807 7323 | + | cg13488201 | ADAM12;ADAM 12 | 0.04 | -0.21 | UCEC |
| chr1 8 | 74961 424 | + | cg12699371 | GALR1 | 0.03 | -0.21 | UCEC |
| chr1 6 | 10277 017 | + | cg25047001 | GRIN2A;GRIN2 A;GRIN2A | 0.05 | -0.20 | UCEC |
| chr6 | 62996 697 | + | cg02217159 | KHDRBS2 | 0.01 | -0.19 | UCEC |
| chr1 1 | 13178 0946 | - | cg11965370 | NTM;NTM;NTM ;NTM;NTM;NT M;NTM | 0.01 | -0.19 | UCEC |
| chr3 | 21792 434 | + | cg18267381 | ZNF385D;ZNF3 85D | 0.05 | -0.19 | UCEC |
| chr1 | 38230 769 | + | cg12128017 | EPHA10;EPHA 10;EPHA10;EP HA10 | 0.04 | -0.19 | UCEC |
| chr1 3 | 27334 259 | + | cg22179082 | GPR12 | 0.04 | -0.19 | UCEC |
| chr1 0 | 10360 3722 | + | cg25123470 | KCNIP2;KCNIP 2;KCNIP2;KCN IP2;KCNIP2;KC NIP2 | 0.05 | -0.19 | UCEC |
| chrX | 91034 003 | - | cg07474356 | PCDH11X | 0.02 | -0.19 | UCEC |
| chr1 0 | 10108 8930 | - | cg01968793 | CNNM1;CNNM 1 | 0.01 | -0.19 | UCEC |
| chr1 8 | 74963 364 | - | cg00662556 | GALR1 | 0.01 | -0.19 | UCEC |
| chr3 | 19190 202 | - | cg07657236 | KCNH8;KCNH8 | 0.05 | -0.18 | UCEC |
| chr2 | 19305 9405 | + | cg06856528 | TMEFF2;TMEF F2 | 0.01 | -0.18 | UCEC |
| chr1 8 | 49868 101 | + | cg25602457 | DCC | 0.04 | -0.18 | UCEC |
| chr2 0 | 59826 207 | - | cg15534366 | CDH4 | 0.00 | -0.18 | UCEC |
| chr1 | 24802 | + | cg20855565 | TRIM58 | 0.02 | -0.18 | UCEC |

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|-----------|---------------|---|------------|---|------|-------|------|
| | 0350 | | | | | | |
| chr5 | 15178 4441 | + | cg03914397 | NMUR2 | 0.04 | -0.18 | UCEC |
| chr1 9 | 44905 343 | - | cg09030119 | ZNF285A | 0.02 | -0.18 | UCEC |
| chr1 9 | 50831 901 | - | cg06572160 | KCNC3 | 0.04 | -0.18 | UCEC |
| chr2 | 11960 6055 | - | cg03266453 | EN1 | 0.05 | -0.18 | UCEC |
| chr8 | 13205 4555 | - | cg13912117 | | 0.02 | -0.17 | UCEC |
| chr3 | 16491 4437 | - | cg13619915 | SLITRK3;SLITR K3 | 0.01 | -0.17 | UCEC |
| chr8 | 13916 4635 | + | cg06276653 | FAM135B | 0.01 | -0.17 | UCEC |
| chr7 | 86273 429 | - | cg14724613 | GRM3;GRM3 | 0.04 | -0.17 | UCEC |
| chr1 5 | 35046 760 | + | cg21053529 | GJD2 | 0.02 | -0.17 | UCEC |
| chr1 7 | 80186 273 | - | cg14417329 | SLC16A3;SLC1 6A3 | 0.00 | -0.17 | UCEC |
| chrX | 55478 180 | + | cg18869368 | MAGEH1 | 0.03 | -0.17 | UCEC |
| chr1 1 | 13340 2230 | + | cg03923934 | OPCML;OPCM L | 0.03 | -0.17 | UCEC |
| chr3 | 66550 735 | + | cg26131019 | LRIG1 | 0.00 | -0.17 | UCEC |
| chr1 3 | 84456 127 | - | cg07104706 | SLITRK1;SLITR K1 | 0.01 | -0.17 | UCEC |
| chr1 8 | 74964 030 | - | cg05896682 | GALR1 | 0.02 | -0.16 | UCEC |
| chr3 | 62359 420 | + | cg06423920 | FEZF2 | 0.01 | -0.16 | UCEC |
| chr9 | 10450 0729 | - | cg08997253 | GRIN3A;GRIN3 A | 0.00 | -0.16 | UCEC |
| chr1 | 35672 14 | - | cg19135761 | WDR8 | 0.05 | -0.16 | UCEC |
| chr7 | 76038 785 | - | cg13594711 | SRCRB4D;SRC RB4D;ZP3 | 0.02 | -0.16 | UCEC |
| chr1 9 | 44905 882 | - | cg26918645 | ZNF285A | 0.05 | -0.16 | UCEC |
| chr2 | 22904 6325 | - | cg04072323 | SPHKAP;SPHK AP;SPHKAP;S PHKAP | 0.01 | -0.16 | UCEC |
| chr1 1 | 59855 616 | - | cg22197708 | MS4A2;MS4A2 | 0.01 | -0.16 | UCEC |
| chr3 | 16491 4471 | - | cg14717170 | SLITRK3 | 0.02 | -0.15 | UCEC |
| chr1 1 | 21615 86 | - | cg25163476 | INS- IGF2;IGF2;IGF2 AS;IGF2;IGF2A S;IGF2 | 0.05 | -0.15 | UCEC |
| chr1 | 23720 5098 | + | cg19764418 | RYR2 | 0.01 | -0.15 | UCEC |

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|-----------|---------------|---|------------|---------------------------------------|------|-------|------|
| chr1 | 20622 3241 | + | cg18992688 | AVPR1B | 0.00 | -0.15 | UCEC |
| chr1 9 | 56510 892 | - | cg05023116 | NLRP5 | 0.03 | -0.15 | UCEC |
| chr1 1 | 10548 1509 | + | cg19343464 | GRIA4;GRIA4; GRIA4;GRIA4; GRIA4 | 0.01 | -0.15 | UCEC |
| chr4 | 90757 533 | + | cg26578617 | SNCA;SNCA;S NCA;SNCA | 0.05 | -0.15 | UCEC |
| chrX | 14099 1592 | + | cg25651984 | MAGEC1 | 0.01 | -0.15 | UCEC |
| chr4 | 15612 9725 | - | cg27504805 | NPY2R | 0.04 | -0.15 | UCEC |
| chr2 | 11037 3002 | + | cg03552103 | SEPT10;SEPT1 0;ANKRD57 | 0.01 | -0.15 | UCEC |
| chr9 | 10450 1030 | + | cg18794577 | GRIN3A | 0.01 | -0.14 | UCEC |
| chr1 | 23685 0232 | - | cg21376883 | ACTN2 | 0.04 | -0.14 | UCEC |
| chr1 2 | 51532 88 | + | cg20792062 | KCNA5;KCNA5 | 0.01 | -0.14 | UCEC |
| chr1 0 | 26223 100 | + | cg08441170 | MYO3A;MYO3 A | 0.00 | -0.14 | UCEC |
| chr9 | 12213 2261 | + | cg25935911 | DBC1 | 0.01 | -0.14 | UCEC |
| chr1 0 | 50817 306 | + | cg18592174 | SLC18A3;CHA T | 0.02 | -0.14 | UCEC |
| chr1 3 | 70682 324 | - | cg20523861 | KLHL1;KLHL1; ATXN8OS | 0.03 | -0.14 | UCEC |
| chr1 | 35220 814 | - | cg01333788 | GJB5 | 0.00 | -0.14 | UCEC |
| chr1 8 | 44336 399 | - | cg19751300 | ST8SIA5 | 0.04 | -0.13 | UCEC |
| chr1 9 | 41195 910 | + | cg08450982 | NUMBL | 0.02 | -0.13 | UCEC |
| chr1 9 | 31770 476 | - | cg08458170 | TSHZ3 | 0.01 | -0.13 | UCEC |
| chr1 0 | 12969 1429 | + | cg23817637 | CLRN3 | 0.02 | -0.13 | UCEC |
| chr1 7 | 79060 98 | - | cg25465406 | GUCY2D | 0.05 | -0.13 | UCEC |
| chrX | 85303 309 | - | cg25488547 | CHM;CHM | 0.02 | -0.13 | UCEC |
| chr1 1 | 11334 6327 | + | cg12758687 | DRD2;DRD2 | 0.05 | -0.13 | UCEC |
| chr6 | 78173 250 | - | cg08614481 | HTR1B | 0.02 | -0.13 | UCEC |
| chr7 | 30833 38 | + | cg26937500 | CARD11;CARD 11 | 0.01 | -0.12 | UCEC |
| chr1 | 66258 441 | - | cg26832142 | PDE4B;PDE4B | 0.00 | -0.12 | UCEC |
| chr4 | 14755 9579 | - | cg13262687 | POU4F2 | 0.03 | -0.12 | UCEC |
| chr7 | 13013 1258 | + | cg13917504 | MEST;MEST;M EST;MESTIT1; | 0.03 | -0.12 | UCEC |

| | | | | MEST | | | |
|-----------|---------------|---|------------|---|------|-------|------|
| chr3 | 45092 68 | - | cg18847227 | SUMF1;SUMF1 ;SUMF1 | 0.02 | -0.12 | UCEC |
| chr1 | 37499 309 | + | cg06722633 | GRIK3 | 0.04 | -0.12 | UCEC |
| chr1 8 | 56887 785 | - | cg23357981 | GRP;GRP;GRP | 0.04 | -0.12 | UCEC |
| chrX | 14489 9412 | - | cg27584469 | SLITRK2;SLITR K2;SLITRK2;SL ITRK2;SLITRK2 ;SLITRK2;SLIT RK2;SLITRK2 | 0.02 | -0.12 | UCEC |
| chr1 9 | 57349 815 | + | cg19771589 | PEG3;PEG3;ZI M2;PEG3;PEG 3;ZIM2;ZIM2 | 0.02 | -0.12 | UCEC |
| chr2 0 | 30225 517 | - | cg27413508 | COX4I2 | 0.02 | -0.12 | UCEC |
| chr6 | 13356 1932 | - | cg20330472 | EYA4;EYA4;EY A4 | 0.00 | -0.12 | UCEC |
| chr8 | 32405 427 | - | cg19162158 | NRG1;NRG1;N RG1;NRG1;NR G1;NRG1;NRG 1;NRG1;NRG1; NRG1;NRG1;N RG1 | 0.02 | -0.11 | UCEC |
| chr2 | 46523 461 | - | cg17518825 | EPAS1 | 0.00 | -0.11 | UCEC |
| chr1 2 | 45542 95 | - | cg01731341 | FGF6 | 0.03 | -0.11 | UCEC |
| chr5 | 14448 78 | + | cg26205131 | SLC6A3 | 0.01 | -0.11 | UCEC |
| chr7 | 49813 763 | - | cg00333226 | VWC2 | 0.05 | -0.11 | UCEC |
| chr1 0 | 26223 310 | - | cg23771603 | MYO3A | 0.01 | -0.11 | UCEC |
| chr5 | 44389 282 | + | cg20387341 | FGF10 | 0.04 | -0.11 | UCEC |
| chrX | 75647 859 | - | cg04544498 | MAGEE1 | 0.02 | -0.11 | UCEC |
| chr1 7 | 39867 328 | + | cg12229387 | GAST | 0.00 | -0.11 | UCEC |
| chr2 | 73520 043 | - | cg13481359 | EGR4 | 0.03 | -0.11 | UCEC |
| chr2 | 23900 9036 | - | cg09039163 | ESPNL;ESPNL | 0.00 | -0.10 | UCEC |
| chr1 4 | 24804 022 | + | cg12265829 | ADCY4 | 0.02 | -0.10 | UCEC |
| chr6 | 11130 2729 | - | cg05213296 | RPF2 | 0.01 | -0.10 | UCEC |
| chr1 9 | 42800 54 | - | cg18581445 | SHD;SHD | 0.01 | -0.10 | UCEC |
| chr1 6 | 71264 290 | - | cg20977864 | HYDIN;HYDIN | 0.05 | -0.10 | UCEC |
| chr9 | 13070 0866 | - | cg23006204 | DPM2 | 0.03 | -0.10 | UCEC |

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|------|-------|---|------------|-------------------------|----------|-------|------|--|
| chr1 | 20173 | | | | | | | |
| 1 | 62 | + | cg22172494 | H19 | 0.01 | 0.10 | UCEC | |
| chr1 | 67137 | | | | | | | |
| 7 | 953 | - | cg22081096 | ABCA6;ABCA6 | 0.02 | 0.10 | UCEC | |
| chr9 | 13096 | | | | | | | |
| | 8072 | + | cg05826823 | CIZ1;DNM1;DNM1;CIZ1 | 0.02 | 0.11 | UCEC | |
| chr5 | 85110 | | | | | | | |
| | 1 | + | cg18429742 | ZDHHC11 | 0.01 | 0.11 | UCEC | |
| chr1 | 20187 | | | | | | | |
| 1 | 24 | + | cg07342901 | H19;MIR675 | 0.02 | 0.11 | UCEC | |
| chr4 | 26493 | | | | | | | |
| | 496 | - | cg04353483 | CCKAR | 0.04 | 0.11 | UCEC | |
| chr9 | 13993 | | | | | | | |
| | 9792 | + | cg26581729 | NPDC1 | 0.05 | 0.11 | UCEC | |
| chr6 | 15295 | | | | | | | |
| | 8899 | - | cg27316956 | SYNE1;SYNE1 | 0.00 | 0.11 | UCEC | |
| chr1 | 42092 | | | | | | | |
| 7 | 431 | + | cg12259256 | TMEM101 | 0.02 | 0.11 | UCEC | |
| chr2 | 37216 | | | | | | | |
| 2 | 067 | + | cg02978737 | PVALB | 0.01 | 0.12 | UCEC | |
| chr1 | 20176 | | | | | | | |
| 1 | 64 | - | cg25852472 | H19 | 0.02 | 0.12 | UCEC | |
| chr2 | 38201 | | | | | | | |
| 2 | 690 | + | cg07141002 | H1F0 | 0.05 | 0.12 | UCEC | |
| chr2 | 22028 | | | | | | | |
| | 3175 | + | cg18182399 | DES;DES | 0.01 | 0.13 | UCEC | |
| chr1 | 34345 | | | | | | | |
| 7 | 136 | + | cg14916288 | CCL23;CCL23 | 0.02 | 0.13 | UCEC | |
| chr1 | 80600 | | | | | | | |
| 1 | 60 | - | cg15480475 | TUB | 0.01 | 0.13 | UCEC | |
| chr1 | 38615 | | | | | | | |
| 2 | 67 | + | cg17904739 | EFCAB4B;EFCAB4B;EFCAB4B | 0.01 | 0.13 | UCEC | |
| chr8 | 11814 | | | | | | | |
| | 6418 | - | cg23338195 | SLC30A8 | 0.03 | 0.16 | UCEC | |
| chr2 | 33957 | | | | | | | |
| 1 | 290 | + | cg20857253 | TCP10L | 0.03 | 0.17 | UCEC | |
| chr1 | 20174 | | | | | | | |
| 1 | 83 | - | cg26808784 | H19 | 0.00 | 0.19 | UCEC | |
| chrX | 28821 | | | | | | | |
| | 83 | + | cg22376897 | ARSE | 0.00 | 0.24 | UCEC | |
| chrX | 28823 | | | | | | | |
| | 33 | + | cg11964613 | ARSE;ARSE | 0.00 | 0.25 | UCEC | |
| chr3 | 12316 | | | | | | | |
| | 7276 | - | cg13878010 | ADCY5 | 0.01 | 0.29 | UCEC | |
| chr3 | 66550 | | | | | | | |
| | 735 | + | cg26131019 | LRIG1 | 5.74E-14 | -0.23 | CESC | |
| chr2 | 46523 | | | | | | | |
| | 461 | - | cg17518825 | EPAS1 | 0.005 | -0.15 | CESC | |

Chr: chromosome of probe-associated gene

Pos: Genomic base position

Strand: + or - strand identity

Name: DNA methylation probe name

UCSC RefGene Name

adj.P.Val: P value adjusted for multiple hypothesis testing with BH method

delta Beta: Difference in mean beta methylation level (EA – AA)

Tumor: CESC = cervix, UCEC = uterine endometrial carcinoma, OV = ovary, BRCA = breast