Supplementary Table 2. Maternal Epigenome-wide Associations with Parenting Stress among AA Mothers

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CpG Sites** | **N** | **Beta** | **SE** | **T-stat** | **Raw p-value** | **p-value after GC** | **FDR-adjusted p-value** | **Chr** | **bp** | **Gene** |
| cg11682399 | 74 | -1.07E-03 | 1.59E-04 | -6.71 | 4.12E-09 | 4.79E-08 | 0.013 | 3 | 134334050 | KY |
| cg11818193 | 74 | 8.96E-04 | 1.34E-04 | 6.70 | 4.47E-09 | 5.15E-08 | 0.013 | 2 | 46503496 | EPAS1 |
| cg12710247 | 74 | -8.55E-04 | 1.29E-04 | -6.62 | 6.19E-09 | 6.81E-08 | 0.013 | 1 | 160373711 | VANGL2 |
| cg10605649 | 74 | -9.07E-04 | 1.37E-04 | -6.61 | 6.46E-09 | 7.07E-08 | 0.013 | 4 | 39277098 | MIR1273H;WDR19 |
| cg22460512 | 74 | -9.01E-04 | 1.37E-04 | -6.58 | 7.31E-09 | 7.87E-08 | 0.013 | 11 | 83023209 | CCDC90B |
| cg00460457 | 74 | -9.35E-04 | 1.44E-04 | -6.51 | 9.52E-09 | 9.89E-08 | 0.014 | 22 | 41631801 | CHADL |
| cg02222678 | 74 | -8.59E-04 | 1.34E-04 | -6.43 | 1.37E-08 | 1.36E-07 | 0.016 | 1 | 175283592 | TNR |
| cg06846637 | 74 | -1.93E-03 | 3.04E-04 | -6.35 | 1.87E-08 | 1.77E-07 | 0.018 | 3 | 127470454 | MGLL |
| cg06839950 | 74 | -8.88E-04 | 1.41E-04 | -6.32 | 2.15E-08 | 2.00E-07 | 0.018 | 6 | 90631678 | GJA10; BACH2 |
| cg25016308 | 74 | -1.74E-03 | 2.77E-04 | -6.26 | 2.68E-08 | 2.42E-07 | 0.018 | 1 | 35245692 | GJB3 |
| cg02998837 | 74 | -1.37E-03 | 2.19E-04 | -6.25 | 2.81E-08 | 2.53E-07 | 0.018 | 3 | 168619603 | LOC100507661 |
| cg02757031 | 74 | -8.54E-04 | 1.37E-04 | -6.22 | 3.18E-08 | 2.81E-07 | 0.018 | 7 | 127349246 | SND1 |
| cg11432526 | 74 | -9.21E-04 | 1.49E-04 | -6.19 | 3.66E-08 | 3.18E-07 | 0.018 | 17 | 30604922 | RHBDL3 |
| cg12253657 | 74 | -9.28E-04 | 1.51E-04 | -6.17 | 3.99E-08 | 3.42E-07 | 0.018 | 20 | 42140965 | L3MBTL1 |
| cg25041570 | 74 | -7.72E-04 | 1.25E-04 | -6.16 | 4.05E-08 | 3.46E-07 | 0.018 | 1 | 177248088 | BRINP2 |
| cg00080682 | 74 | -1.54E-03 | 2.50E-04 | -6.16 | 4.05E-08 | 3.47E-07 | 0.018 | 22 | 51176543 | ACR |
| cg17926444 | 74 | -7.69E-04 | 1.25E-04 | -6.15 | 4.30E-08 | 3.66E-07 | 0.018 | 16 | 8946562 | PMM2; CARHSP1 |
| cg18239719 | 74 | -8.21E-04 | 1.34E-04 | -6.14 | 4.40E-08 | 3.73E-07 | 0.018 | 17 | 8889912 | PIK3R5 |
| cg24926506 | 74 | -7.59E-04 | 1.24E-04 | -6.11 | 4.94E-08 | 4.12E-07 | 0.018 | 2 | 55726991 | CCDC104 |
| cg04058748 | 74 | -8.92E-04 | 1.46E-04 | -6.10 | 5.15E-08 | 4.27E-07 | 0.018 | 8 | 101658413 | SNX31 |
| cg16154369 | 74 | -8.42E-04 | 1.38E-04 | -6.08 | 5.62E-08 | 4.61E-07 | 0.019 | 2 | 72010967 | DYSF |
| cg11615102 | 74 | -1.74E-03 | 2.88E-04 | -6.04 | 6.58E-08 | 5.28E-07 | 0.020 | 6 | 30113877 | TRIM40 |
| cg15083677 | 74 | -8.16E-04 | 1.36E-04 | -6.00 | 7.88E-08 | 6.17E-07 | 0.022 | 6 | 164758516 |  |
| cg20512713 | 74 | -8.21E-04 | 1.37E-04 | -5.99 | 8.32E-08 | 6.47E-07 | 0.022 | 3 | 15913970 | MIR563 |
| cg24260882 | 74 | -8.35E-04 | 1.40E-04 | -5.97 | 8.91E-08 | 6.86E-07 | 0.022 | 11 | 75144708 | RPS3; KLHL35 |
| cg15135176 | 74 | -9.12E-04 | 1.54E-04 | -5.94 | 9.99E-08 | 7.58E-07 | 0.022 | 1 | 3044977 | PRDM16 |
| cg07462497 | 74 | -1.84E-03 | 3.11E-04 | -5.92 | 1.08E-07 | 8.13E-07 | 0.022 | 21 | 43546635 | UMODL1 |
| cg01167615 | 74 | -8.30E-04 | 1.41E-04 | -5.91 | 1.14E-07 | 8.49E-07 | 0.022 | 2 | 174496001 |  |
| cg04565490 | 74 | -1.80E-03 | 3.04E-04 | -5.91 | 1.14E-07 | 8.50E-07 | 0.022 | 6 | 29570607 | GABBR1 |
| cg14574088 | 74 | -8.51E-04 | 1.44E-04 | -5.91 | 1.15E-07 | 8.55E-07 | 0.022 | 20 | 5451809 | LOC643406 |
| cg13590228 | 74 | -8.17E-04 | 1.38E-04 | -5.91 | 1.15E-07 | 8.57E-07 | 0.022 | 3 | 150477925 | SIAH2 |
| cg09430664 | 74 | -1.79E-03 | 3.03E-04 | -5.90 | 1.16E-07 | 8.66E-07 | 0.022 | 6 | 166908758 | RPS6KA2 |
| cg24678211 | 74 | -5.08E-04 | 8.62E-05 | -5.89 | 1.21E-07 | 8.97E-07 | 0.022 | 17 | 80935670 | B3GNTL1 |
| cg01000937 | 74 | -1.05E-03 | 1.78E-04 | -5.89 | 1.21E-07 | 8.97E-07 | 0.022 | 14 | 30730636 |  |
| cg05656166 | 74 | -9.16E-04 | 1.56E-04 | -5.88 | 1.30E-07 | 9.50E-07 | 0.022 | 7 | 582014 | PRKAR1B |
| cg14235348 | 74 | -9.26E-04 | 1.58E-04 | -5.87 | 1.33E-07 | 9.70E-07 | 0.022 | 7 | 77329045 | RSBN1L |
| cg04584642 | 74 | -6.73E-04 | 1.15E-04 | -5.85 | 1.45E-07 | 1.05E-06 | 0.022 | 20 | 33548317 | MYH7B |
| cg03562628 | 74 | -8.15E-04 | 1.39E-04 | -5.85 | 1.45E-07 | 1.05E-06 | 0.022 | 1 | 158054237 | KIRREL |
| cg15447470 | 74 | -1.24E-03 | 2.11E-04 | -5.84 | 1.47E-07 | 1.06E-06 | 0.022 | 15 | 79735446 | KIAA1024 |
| cg12080762 | 74 | -1.01E-03 | 1.72E-04 | -5.84 | 1.49E-07 | 1.07E-06 | 0.022 | 15 | 100526449 | ADAMTS17 |
| cg10836755 | 74 | -8.61E-04 | 1.47E-04 | -5.84 | 1.49E-07 | 1.07E-06 | 0.022 | 1 | 226546944 | PARP1 |
| cg14852364 | 74 | -1.39E-03 | 2.38E-04 | -5.82 | 1.60E-07 | 1.14E-06 | 0.023 | 22 | 49691248 |  |
| cg07236001 | 74 | -8.37E-04 | 1.44E-04 | -5.80 | 1.73E-07 | 1.22E-06 | 0.024 | 11 | 1392360 | BRSK2 |
| cg22913204 | 74 | -1.49E-03 | 2.56E-04 | -5.80 | 1.74E-07 | 1.23E-06 | 0.024 | 3 | 195477968 | MUC4 |
| cg04713275 | 74 | -8.38E-04 | 1.45E-04 | -5.79 | 1.81E-07 | 1.27E-06 | 0.024 | 8 | 116645221 | TRPS1 |
| cg15732386 | 74 | -9.98E-04 | 1.72E-04 | -5.79 | 1.84E-07 | 1.28E-06 | 0.024 | 7 | 55105742 | EGFR |
| cg19734896 | 74 | -1.32E-03 | 2.30E-04 | -5.76 | 2.09E-07 | 1.44E-06 | 0.026 | 1 | 166888684 | ILDR2 |
| cg02032193 | 74 | -1.45E-03 | 2.52E-04 | -5.73 | 2.29E-07 | 1.55E-06 | 0.027 | 2 | 36557755 | CRIM1 |
| cg10511960 | 74 | -8.24E-04 | 1.44E-04 | -5.73 | 2.32E-07 | 1.57E-06 | 0.027 | 8 | 61548907 | RAB2A |
| cg26737079 | 74 | -8.36E-04 | 1.46E-04 | -5.72 | 2.39E-07 | 1.61E-06 | 0.027 | 16 | 11847872 | ZC3H7A |
| cg08599433 | 74 | -8.86E-04 | 1.55E-04 | -5.72 | 2.41E-07 | 1.63E-06 | 0.027 | 7 | 2080277 | MAD1L1 |
| cg09293925 | 74 | -1.86E-04 | 3.26E-05 | -5.71 | 2.52E-07 | 1.69E-06 | 0.027 | 16 | 89471650 | ANKRD11 |
| cg02288294 | 74 | -8.38E-04 | 1.47E-04 | -5.70 | 2.65E-07 | 1.77E-06 | 0.027 | 11 | 87606882 |  |
| cg10858644 | 74 | -8.33E-04 | 1.46E-04 | -5.70 | 2.66E-07 | 1.77E-06 | 0.027 | 22 | 37345239 | CSF2RB |
| cg06549542 | 74 | 1.17E-03 | 2.05E-04 | 5.69 | 2.69E-07 | 1.79E-06 | 0.027 | 10 | 114579138 | VTI1A |
| cg16982163 | 74 | -8.11E-04 | 1.43E-04 | -5.69 | 2.76E-07 | 1.83E-06 | 0.027 | 6 | 167576370 | CCR6 |
| cg10667134 | 74 | -8.46E-04 | 1.49E-04 | -5.68 | 2.79E-07 | 1.85E-06 | 0.027 | 10 | 119839966 | CASC2 |
| cg04727604 | 74 | -7.98E-04 | 1.41E-04 | -5.68 | 2.84E-07 | 1.87E-06 | 0.027 | 19 | 1806980 | ATP8B3 |
| cg00424168 | 74 | -7.55E-04 | 1.33E-04 | -5.68 | 2.86E-07 | 1.89E-06 | 0.027 | 2 | 3204523 | TSSC1 |
| cg12796409 | 74 | -7.85E-04 | 1.39E-04 | -5.65 | 3.17E-07 | 2.06E-06 | 0.029 | 10 | 115105961 |  |
| cg10132169 | 73 | -7.97E-04 | 1.41E-04 | -5.65 | 3.34E-07 | 2.16E-06 | 0.030 | 16 | 84327245 | WFDC1 |
| cg19114460 | 74 | -8.49E-04 | 1.51E-04 | -5.63 | 3.43E-07 | 2.20E-06 | 0.030 | 19 | 44223535 | IRGC |
| cg24310913 | 74 | -7.46E-04 | 1.33E-04 | -5.62 | 3.56E-07 | 2.28E-06 | 0.031 | 15 | 63875268 | USP3 |
| cg05229362 | 74 | -7.82E-04 | 1.39E-04 | -5.61 | 3.69E-07 | 2.35E-06 | 0.031 | 6 | 169789120 | AK055570 |
| cg07350105 | 74 | 3.41E-04 | 6.09E-05 | 5.61 | 3.81E-07 | 2.42E-06 | 0.032 | 19 | 37096110 | ZNF382;ZNF529 |
| cg04777661 | 74 | -1.66E-03 | 2.96E-04 | -5.60 | 3.91E-07 | 2.47E-06 | 0.032 | 7 | 126087427 | GRM8 |
| cg19241807 | 74 | -7.75E-04 | 1.39E-04 | -5.58 | 4.17E-07 | 2.61E-06 | 0.033 | 2 | 25392556 | POMC |
| cg17029655 | 74 | -7.59E-04 | 1.36E-04 | -5.57 | 4.34E-07 | 2.71E-06 | 0.034 | 9 | 15999921 | CCDC171 |
| cg03046247 | 74 | -8.99E-04 | 1.62E-04 | -5.57 | 4.49E-07 | 2.79E-06 | 0.034 | 7 | 55106050 | EGFR |
| cg20322901 | 74 | 5.61E-04 | 1.01E-04 | 5.55 | 4.70E-07 | 2.90E-06 | 0.034 | 12 | 29301525 | FAR2 |
| cg07922443 | 74 | -2.82E-04 | 5.08E-05 | -5.55 | 4.72E-07 | 2.91E-06 | 0.034 | 5 | 153857468 | HAND1 |
| cg24190091 | 74 | -7.94E-04 | 1.43E-04 | -5.55 | 4.74E-07 | 2.92E-06 | 0.034 | 1 | 20835240 | MUL1 |
| cg08142006 | 74 | -8.07E-04 | 1.46E-04 | -5.55 | 4.87E-07 | 2.99E-06 | 0.035 | 6 | 168466771 | FRMD1 |
| cg08969148 | 74 | -6.77E-04 | 1.22E-04 | -5.53 | 5.10E-07 | 3.11E-06 | 0.036 | 19 | 50279072 | AP2A1 |
| cg00059879 | 74 | -1.26E-03 | 2.29E-04 | -5.53 | 5.24E-07 | 3.19E-06 | 0.036 | 15 | 49534692 | GALK2 |
| cg15575851 | 74 | -7.82E-04 | 1.41E-04 | -5.52 | 5.31E-07 | 3.22E-06 | 0.036 | 5 | 68168648 |  |
| cg12691572 | 74 | 1.53E-03 | 2.78E-04 | 5.51 | 5.57E-07 | 3.36E-06 | 0.037 | 10 | 114574959 | VTI1A |
| cg18287149 | 74 | 3.17E-04 | 5.76E-05 | 5.51 | 5.68E-07 | 3.42E-06 | 0.037 | 12 | 29301794 | FAR2 |
| cg27045832 | 74 | -7.74E-04 | 1.41E-04 | -5.50 | 5.79E-07 | 3.47E-06 | 0.037 | 8 | 123161556 | BC052578 |
| cg13499271 | 74 | 1.23E-03 | 2.23E-04 | 5.50 | 5.82E-07 | 3.49E-06 | 0.037 | 9 | 137533309 | COL5A1 |
| cg11832534 | 74 | -1.10E-03 | 2.00E-04 | -5.49 | 6.12E-07 | 3.65E-06 | 0.038 | 1 | 3563998 | WRAP73 |
| cg09259713 | 74 | -7.72E-04 | 1.41E-04 | -5.48 | 6.22E-07 | 3.69E-06 | 0.038 | 22 | 42206440 | CCDC134 |
| cg22030032 | 74 | 1.38E-03 | 2.54E-04 | 5.45 | 7.14E-07 | 4.16E-06 | 0.042 | 19 | 41312792 | EGLN2 |
| cg22447526 | 74 | 6.33E-04 | 1.16E-04 | 5.44 | 7.30E-07 | 4.25E-06 | 0.043 | 12 | 29301546 | FAR2 |
| cg12669340 | 74 | 1.19E-04 | 2.20E-05 | 5.43 | 7.62E-07 | 4.41E-06 | 0.044 | 5 | 107009208 | EFNA5 |
| cg09930753 | 73 | -3.41E-03 | 6.27E-04 | -5.44 | 7.75E-07 | 4.47E-06 | 0.044 | 12 | 96010754 | PGAM1P5 |
| cg07672509 | 73 | -1.45E-03 | 2.67E-04 | -5.42 | 8.15E-07 | 4.67E-06 | 0.046 | 5 | 143310904 |  |
| cg11464074 | 74 | -7.00E-04 | 1.30E-04 | -5.40 | 8.61E-07 | 4.90E-06 | 0.047 | 7 | 126417126 | GRM8 |
| cg25217365 | 74 | 3.76E-04 | 6.97E-05 | 5.40 | 8.81E-07 | 5.00E-06 | 0.048 | 12 | 29302035 | FAR2 |
| cg25811920 | 74 | -8.05E-04 | 1.49E-04 | -5.39 | 8.96E-07 | 5.07E-06 | 0.048 | 8 | 128147663 |  |
| cg01698343 | 74 | -6.80E-04 | 1.26E-04 | -5.39 | 9.08E-07 | 5.13E-06 | 0.048 | 3 | 56106105 | ERC2 |
| cg10797920 | 74 | 1.36E-03 | 2.52E-04 | 5.38 | 9.23E-07 | 5.20E-06 | 0.048 | 20 | 62495449 | TPD52L2 |
| cg06637893 | 74 | -1.97E-04 | 3.66E-05 | -5.38 | 9.36E-07 | 5.27E-06 | 0.048 | 16 | 67700960 | C16orf86;ENKD1 |
| cg09407996 | 74 | -8.28E-04 | 1.54E-04 | -5.37 | 9.61E-07 | 5.39E-06 | 0.048 | 1 | 37235221 | GRIK3 |
| cg00125005 | 74 | -6.86E-04 | 1.28E-04 | -5.37 | 9.61E-07 | 5.39E-06 | 0.048 | 7 | 2528398 | BC034268; LFNG |