Supplementary Table S1. Primer sequences for qMSP, MSP, RT-qPCR.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| qMSP | Primer sequence 5'-3' |   |   | Tm |
| *BRCA1* |  |  |  |  | 64oC |
| methylated sense | GGGTGGTTAATTTAGAGTTTCGAGAGACG |   |
| methylated antisense | AACGAACTCACGCCGCGCAATCG |  |   |
|   |  |  |  |  |   |
| *Actin* |  |  |  |  | 64oC |
| sense | TAGGGAGTATATAGGTTGGGGAAGTT |  |   |
| antisense | AACACACAATAACAAACACAAATTCAC |  |   |
|   |  |  |  |  |   |
| MSP | **Primer sequence 5'-3'** |   |   | **Tm** |
| *FANC-C* |  |  |  |  | 60oC |
| unmethylated sense | TGTTGTTGTAATTTTGTTTTTGTTGGGGTTTTTG |   |
| unmethylated antisense | AACACAACCAAAACTCTAACAAAAATAAACCCA |   |
| methylated sense | GACCAAAACTCTAACGAAAATAAACCCG |  |   |
| methylated antisense | TTGTTGTAATTTTGTTTTCGTCGGGGTTTTC |   |
|   |  |  |  |  |   |
| *FANC-L* |  |  |  |  | 64oC |
| unmethylated sense | TTTTATTATTGGTTGGGGAGTTTTGATGTTGTTTTTTGTAGAGTG |
| unmethylated antisense | AACTCTAAACCTACTAAATCCTACACATACACAATCCACTAACA |   |
| methylated sense | TTGGGGAGTTTTGATGTCGTTTTTCGTAGAGC |   |
| methylated antisense | CTCTAAACCTACTAAATCCTACACATACGCAATCCGCTAACG |   |
|   |  |  |  |  |   |
| *FANC-F* |  |  |  |  | 62oC |
| unmethylated sense | TATGTTAGTATTTGGGATTTTGTTATTGTGTGTTG |   |
| unmethylated antisense | CTAATTATACAACCACCACTCCAAAACCATACA |   |
| methylated sense | TATTTGGGATTTCGTTATCGTGCGTC |  |   |
| methylated antisense | CGCCGCTCCAAAACCGTACG |  |   |
|   |  |  |  |  |   |
| *BRCA2* |  |  |  |  | 64oC |
| unmethylated sense | TGATTTTTGGGTGGTGTGTGTGTTGTG |  |   |
| unmethylated antisense | CAAAAACACAACAATACCACAACAACTCCA |   |
| methylated sense | TTTTCGGGTGGTGCGTGTGTTGCG |  |   |
| methylated antisense | CGCAACAATACCACAACGACTCCG |  |   |
|   |  |  |  |  |   |
| *FANC-N* |  |  |  |  | 62oC  |
| unmethylated sense | GATTTTGGTTATTTTTGGTTGTTTTTTTATTTTTG |   |
| unmethylated antisense | AACCATAAACAACCAAACAATAAAACAAAACCA |   |
| methylated sense | ATTTCGGTTATTTTCGGTCGTTTTTTTATTTTC |   |
| methylated antisense | GACCGAACAATAAAACGAAACCG |   |
|   |  |  |  |  |   |
| *ATM* |  |  |  |  |   |
| unmethylated sense | TAGGTGTGTTTGTTTTGATGGGTTG |  | 62oC |
| unmethylated antisense | AACAACCACAAAACACAATATACCCATACA |   |
| methylated sense | CGTTTGTTTCGACGGGTC |  |  |   |
| methylated antisense | CGCAAAACAGATATACCCATACG |  |   |
|   |  |  |  |  |   |
| *FANC-A* |  |  |  |  | 62oC |
| unmethylated sense | TAGGTGTTTTTTTTAGGATTAATATGGTTATGATG |   |
| unmethylated antisense | CAAACACACACACCCATTAACTAACAACA |  |   |
| methylated sense | GGCGTTTTTTTTAGGATTAATATGGTTACGAC |   |
| methylated antisense | CACACCCGTTAACTAACGACG |  |   |
|   |  |  |  |  |   |
| *BLOOM* |  |  |  |  |  62oC |
| unmethylated sense | GAAGTAGTTAATTGGAATAGGTAAGTTTTTGGTG |   |
| unmethylated antisense | CCTCACACACAAACTCCTAACAAACA |   |
| methylated sense | TAGTTAATCGGAATAGGTAAGTTTTCGGC |   |
| methylated antisense | CACGCAAACTCCTAACGAACG |   |
|   |  |  |  |  |   |
| *FANC-D2* |  |  |  |  |  64oC |
| unmethylated sense | GTGAGTTTTTTTTTATTGGGGTGTAGTTGTTTTTTTTTGATGTTG |   |
| unmethylated antisense | CTCACCACTACAACAAAATTCTATACTAACCAAACATAAAAACA |   |
| methylated sense | GAGTTTTTTTTTATCGGGGCGTAGTTGTTTTTTTTTGACGTC |   |
| methylated antisense | TCACCGCTACAACAAAATTCTATACTAACCGAACATAAAAACG |   |
|   |  |  |  |  |   |
| *FANC-E* |  |  |  |  |  62oC |
| unmethylated sense | TTGGTTTTATGTTTAGGTTTTGTTTTTGGTTGTG |   |
| unmethylated antisense | CTATTACAAACTCTCCTCAACATTAAAAAACCA |   |
| methylated sense | TTTAGGTTTCGTTTTCGGTCGC |   |
| methylated antisense | TCTCCTCGACGTTAAAAAACCG |   |
|   |  |  |  |  |   |
| *FANC-G* |  |  |  |  |  62oC |
| unmethylated sense | TTTGTTTATTTTTTTTTGAGGTTGTGGTTTTTGTG |   |
| unmethylated antisense | CAAACAAACTTAAACAAACTAAAAACCAAAATCA |   |
| methylated sense | GTTTATTTTTTTTCGAGGTTGTGGTTTTCGC |   |
| methylated antisense | AAACAAACTTAAACGAACTAAAAACCGAAATCG |   |
|   |  |  |  |  |   |
| *FANC-I* |  |  |  |  |  62oC |
| unmethylated sense | TGTTTTTTTTTGATTGTGAGTTGGGATGTTTTTG |   |
| unmethylated antisense | ACTTCCACCATCCAAATACCTACAAACA |   |
| methylated sense | TTTTTTTTCGATTGTGAGTTGGGACGTTTTC |   |
| methylated antisense | CCGTCCGAATACCTACGAACG |   |
|  |  |  |  |  |  |
| *FANC-J* |  |  |  |  |  62oC |
| unmethylated sense | GGATTTGTTGGAGTGGTGATAATTTTTTGTTGTG |   |
| unmethylated antisense | AATCCCAATACAAAATAAAAAAACAAAAACTTCA |   |
| methylated sense | AGTGGCGATAATTTTTCGTCGC |   |
| methylated antisense | CCGATACGAAATAAAAAAACGAAAACTTCG |   |
|  |  |  |  |  |  |
| *ATR* |  |  |  |  |  58oC |
| unmethylated sense | GTTTGGTGTTGAGAAAGAAGTTTGATGTGATTTG |   |
| unmethylated antisense | TTCTACATAAAACCCAAAAAAAACCAAAAAACCA |   |
|   |  |  |  |  |   |
| methylated sense | TGTTGAGAAAGAAGTTTGACGCGATTC |   |
| methylated antisense | TACATAAAACCCGAAAAAAACCGAAAAACCG |   |
|   |  |  |  |  |   |
| RT-qPCR | **Primer sequence 5'-3'** |   |   | **Tm** |
| *BRCA1* |   |   |   |   | 60oC |
| sense | CAACATGCCCACAGATCAAC |  |   |
| *antisense* | ATGGAAGCCATTGTCCTCTG |  |   |
| GAPDH |  |  |  |  | 60oC |
| sense | GAAGGTCGGAGTCAACGGATTT |  |   |
| *antisense* | ATGGGTGGAATCATATTGGAAC |   |   |