Table S1. Primer list

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|  | Forward primer | Reverse primer |
| IDH1 exon4 [1] | 5’- AATGAGCTCTATATGCCATCACTG-3’ | 5’- TTCATACCTTGCTTAATGGGTGT-3’ |
| IDH1 sequencing [1] | 5′-GCCATCACTGCAGTTGTAGGTTA-3′ |  |
| IDH2 exon4 [2] | 5’-TTGTTGCTTGGGGTTCAAAT-3’ | 5’-TGTGGCCTTGTACTGCAGAG-3’ |
| H3F3A exon1 | 5’-GATTTTGGGTAGACGTAATCTTCA-3’ | 5’-TACATACAAGAGAGACTTTGTCCC-3’ |
| HIST1H3B exon1 | 5’-GGGCAGGAGCCTCTCTTAAT-3’ | 5’-ACCAAGTAGGCCTCACAAGC-3’ |
| TERT [3] | 5’-TCCCTCGGGTTACCCCACAG-3’ | 5’-AAAGGAAGGGGAGGGGCTG-3’ |
| BRAF exon15 [4]  | 5’-CCTAACACATTTCAAGCCCCA-3’ | 5’-CACTGATTTTTGTGAATACTGGGA-3’ |
| KRAS exon2 [5] | 5’- ACACGTCTGCAGTCAACTGG-3’ | 5’- TAACTTGAAACCCAAGGTAC-3’ |
| KRAS exon3 [5] | 5’-GCACTGTAATAATCCAGACT-3’ | 5’-CATGGCATTAGCAAAGACTC-3’ |
| HRAS exon2 [5] | 5’-AGGAGACCCTGTAGGAGGA-3’ | 5’-CTATCCTGGCTGTGTCCTG-3’ |
| HRAS exon3 [5] | 5’-AGAGGCTGGCTGTGTGAAC-3’ | 5’-GCAGCGGCATCCAGGACAT-3’ |
| NRAS exon2 [5] | 5’-GGCCGATATTAATCCGGTGT-3’ | 5’-TCCGACAAGTGAGAGACAGG-3’ |
| NRAS exon3 [5] | 5’-TTGCATTCCCTGTGGTTTTT-3’ | 5’-TGGTAACCTCATTTCCCCATA-3’ |
| MGMT qMSP-Unmet [6] | 5’- TTTGTGTTTTGATGTTTGTAGGTTTTTGT-3’ | 5’- AACTCCACACTCTTCCAAAAACAAAACA-3’ |
| MGMT qMSP-Met [6] | 5’- TTTCGACGTTCGTAGGTTTTCGC-3’ | 5’- GCACTCTTCCGAAAACGAAACG-3’ |

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