**Supplementary table 1: The sequences of the primers used for sequencing.**

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| Gene | Forward primer (5′→3′) | Reverse primer (5′→3′) |
| *BRAF*-exon 15 | TCATAATGCTTGCTCTGATAGGA | GGCCAAAAATTTAATCAGTGGA |
| *NRAS*-exon 1 | CAGGTTCTTGCTGGTGTGAAA | CTACCACTGGGCCTCACCTCTATGG |
| *NRAS*-exon 2 | GTTATAGATGGTGAAACCTG | ATACACAGAGGAAGCCTTCG |
| *GAPDH* | CAAGGTCATCCATGACAACTTTG | GTCCACCACCCTGTTGCTGTAG |