

Supplementary Table 1

Primers used for real-time quantitative PCR:

BRAF exon 12:

F: 5' AGCACCTACACCTCAGCAGTTACA 3'

R: 5' ACCACTGGGAACCAGGAGCTAATA 3'

HIPK2:

F: 5' CTGGTGGGGTAGCATCTTCT 3'

R: 5' TTGCTGGAGGACTTGGACTT 3'

TBXAS1:

F: 5' TTCCTGCCTGTTGCTCACACTCT 3'

R: 5' TCCAAGACGCTGCCAATCCAGTTA 3'

MRPS33:

F: 5' TTCCGCTGCCGTAATTCCTCTCA 3'

R: 5' TTAATCTGCAGCCCACCACCCAAA 3'

LINE-1

F: 5' AAAGCCGCTCAACTACATGG 3'

R: 5' TGCTTTGAATGCGTCCCAGAG 3'

Mutational analysis for *BRAF*

BRAF exon 12:

F: 5' AAGGGGATCTCTTCCTGTATCC 3'

R: 5' GAGTCCCGACTGCTGTGAAC 3'

BRAF exon 15:

F: 5' TTGACTCTAAGAGGAAAGATGAAGT 3'

R: 5' TTGAGACCTTCAATGACTTTCTAGT 3'