**Figure S1**

PCR Primer Locations and Hot Spots for *BRAF*, *NRAS* and *KRAS*

Sequences highlighted in grey denote regions around which PCR primers were designed. Sequences highlighted with underline are hot spot codons around which SNPE probes were designed.

*BRAF* Exon 11

GTGATGATTGGGAGATTCCTGATGGGCAGATTACAGTGGGACAAAGAATTGGATCTGGATCATTTGGAAC

AGTCTACAAGGGAAAGTGGCATGGTGATGTGGCAGTGAAAATGTTGAATGTGACAGCACCTACACCTCAG

*BRAF* Exon 15

ATGGATTACTTACACGCCAAGTCAATCATCCACAGAGACCTCAAGAGTAATAATATATTTCTTCATGAAG

ACCTCACAGTAAAAATAGGTGATTTTGGTCTAGCTACAGTGAAATCTCGATGGAGTGGGTCCCATCAGTT

TGAACAGTTGTCTGGATCCATTTTGTGGATGGCACCAGAAGTCATCAGAATGCAAGATAAAAATCCATAC

*NRAS* Exon 2

TTACTGGTTTCCAACAGGTTCTTGCTGGTGTGAAATGACTGAGTACAAACTGGTGGTGGTTGGAGCAGGT

GGTGTTGGGAAAAGCGCACTGACAATCCAGCTAATCCAGAACCACTTTGTAGATGAATATGATCCCACCA

TAGAGGTGAGGCCCAGTGGTAGCCCGCTGACCTGATCCTGTCTCTCACTTGTCGGATCATCTTTACCCAT

*NRAS* Exon 3

ATAGATGGTGAAACCTGTTTGTTGGACATACTGGATACAGCTGGACAAGAAGAGTACAGTGCCATGAGAG

ACCAATACATGAGGACAGGCGAAGGCTTCCTCTGTGTATTTGCCATCAATAATAGCAAGTCATTTGCGGA

*KRAS*

*KRAS* Exon 2

TAGTGTATTAACCTTATGTGTGACATGTTCTAATATAGTCACATTTTCATTATTTTTATTATAAGGCCTG

CTGAAAATGACTGAATATAAACTTGTGGTAGTTGGAGCTGGTGGCGTAGGCAAGAGTGCCTTGACGATAC

AGCTAATTCAGAATCATTTTGTGGACGAATATGATCCAACAATAGAGGTAAATCTTGTTTTAATATGCAT

ATTACTGGTGCAGGACCATTCTTTGATACAGATAAAGGTTTCTCTGACCATTTTCATGAGTACTTATTAC

*KRAS* Exon 3

CCTTTTTTGAAGTAAAAGGTGCACTGTAATAATCCAGACTGTGTTTCTCCCTTCTCAGGATTCCTACAGG

AAGCAAGTAGTAATTGATGGAGAAACCTGTCTCTTGGATATTCTCGACACAGCAGGTCAAGAGGAGTACA

GTGCAATGAGGGACCAGTACATGAGGACTGGGGAGGGCTTTCTTTGTGTATTTGCCATAAATAATACTAA

ATCATTTGAAGATATTCACCATTATAGGTGGGTTTAAATTGAATATAATAAGCTGACATTAAGGAGTAAT

*KRAS* Exon 4

GAAATAAATGTGATTTGCCTTCTAGAACAGTAGACACAAAACAGGCTCAGGACTTAGCAAGAAGTTATGG

AATTCCTTTTATTGAAACATCAGCAAAGACAAGACAGGTAAGTAACACTGAAATAAATACAGATCTGTTT

TCTGCAAAATCATAACTGTTATGTCATTTAATATATCAGT