

**Supplementary Table S2.** Amplicon sequence of mutational hotspots in *KRAS*, *NRAS*, and *BRAF*.

Target genes	Mutational hotspots	Hg19	Amplicon sequence
<i>KRAS</i>	Exon 2 (codon12, 13)	chr12:25398284, chr12:25398281	CAAAGAATGGTCCTGCACCAGTAATATG CATATTAACAAGATTTACCTCTATTGTT GGATCATATTCGTCCACAAAATGATTCTG AATTAGCTGTATCGTCAAGGCACTCTTGC CTACGCCACCAGCTCCAACCTACCACAAG TTTATATTCAGTCATTTTCAGCAGGCCT
	Exon 3 codon 61	chr12:25380276	TCCTCATGTACTGGTCCCTCATTGCACTGT ACTCCTCTTGACCTGCTGTGTGCGAGAATA TCCAAGAGACAGGTTTCTCCATCAATTAC TACTTGCTTCCTGTAGGAATCCTGAGAAG GGAGAAACACAGTCTGGATTATTACAGT GCACCTTTTAC
	Exon 4 codon 146	chr12:25378561	CAGATCTGTATTIATTTTCAGTGTTACTTAC CTGTCTTGCTTTTGCTGATGTTTCAATAAA AGGAATTCCATAACTTCTTGCTAAGTCCT GAGCCTGTTTTGTGTCTACTGTTCTAGAA GGCAAATCACATTTATTTCTACTAGGAC CATAGGTACATCTTCAGAGTC
<i>NRAS</i>	Exon 2 (codon 12, 13)	chr1:115258747, chr1:115258744	CCTCACCTCTATGGTGGGATCATATTCATC TACAAAGTGGTTCTGGATTAGCTGGATTG TCAGTGCGCTTTTCCCAACACCACCTGCT CCAACCACCACCAGTTTGTACTCAGTCAT TTCACACCAGCAAGAAC
	Exon 3 (codon 59,61)	chr1:115256536, chr1:115256529	TTCGCCTGTCCTCATGTATGGTCTCTCAT GGCACTGTACTCTTCTGTCCAGCTGTAT CCAGTATGTCCAACAAACAGGTTTCACC ATCTATAACCACTTGTTTTCTGTAAGAATC CTGGGGGTG
	Exon 4 (codon 117,146)	chr1:115252284 / chr1:115252206	GCACAAATGCTGAAAGCTGTACCATACC TGCTGGTCTTGGCTGAGGTTTCAATGAA TGGAATCCCGTAACTCTTGGCCAGTTCGT GGGCTTGTTTTGTATCAACTGTCCTTGTTG GCAAATCACACTTGTTTCCCACTAGCACC ATAGGTACATCATCCGAGTCT

<i>BRAF</i>	codon 600	chr7:140453135	CCACAAAATGGATCCAGACAACTGTTCA AACTGATGGGACCCACTCCATCGAGATTT CACTGTAGCTAGACCAAAATCACCTATTT TTACTGTGAGGTCTTCATGAAGAAATATA TCTGAGGTGTAGTAAGTAAAGGAAAACA GTAGATCTCATTTTCCTATCAGAGCAAGC
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