



Variant List – UltraSEEK® Melanoma Panel v2

Gene	Nucleotide Change	Amino Acid Change	COSMIC ID	Genomic Mutation ID
BRAF	c.1779_1780TG>GA	p.D594N	211600	COSV56066597
BRAF	c.1780G>A	p.D594N	27639	COSV56061673
BRAF	c.1780G>C	p.D594H	144576	COSV56106240
BRAF	c.1781A>T	p.D594V	466	COSV56283955
BRAF	c.1782T>A	p.D594E	1121	COSV56082626
BRAF	c.1798_1799GT>AA	p.V600K	473	COSV56057713
BRAF	c.1798_1799GT>AG	p.V600R	474	COSV56058419
BRAF	c.1798G>A	p.V600M	1130	COSV56075762
BRAF	c.1799_1800TG>AA	p.V600E	475	COSV56059110
BRAF	c.1799_1800TG>AT	p.V600D	477	COSV56059623
BRAF	c.1799T>A	p.V600E	476	COSV56056643
BRAF	c.1799T>G	p.V600G	6137	COSV56080151
BRAF	c.1801A>G	p.K601E	478	COSV56058494
CDKN2A	c.238C>T	p.R80*	12475	COSV58682746
CTNNB1	c.110C>A	p.S37Y	5666	COSV62689256
CTNNB1	c.133T>C	p.S45P	5663	COSV62687880
CTNNB1	c.134C>A	p.S45Y	5692	COSV62689938
CTNNB1	c.134C>T	p.S45F	5667	COSV62687872
IDH1	c.394C>T	p.R132C	28747	COSV61615256
IDH1	c.395G>A	p.R132H	28746	COSV61615239
KIT	c.1669T>A	p.W557R	1216	COSV55389479
KIT	c.1676T>A	p.V559D	1252	COSV55386973
KIT	c.1676T>C	p.V559A	1255	COSV55388782
KIT	c.1727T>C	p.L576P	1290	COSV55386593
KIT	c.1924A>G	p.K642E	1304	COSV55387507
KIT	c.2446G>C	p.D816H	1311	COSV55386862
KIT	c.2447A>T	p.D816V	1314	COSV55386424
MAP2K1	c.1144A>C	p.N382H	235617	COSV57234270
MAP2K1	c.157T>C	p.F53L	555604	COSV61068605
MAP2K1	c.332T>G	p.I111S	1238027	COSV61071557
MAP2K1	c.362G>C	p.C121S	1315829	COSV61069878
MAP2K1	c.370C>T	p.P124S	235614	COSV61068297
MAP2K1	c.607G>A	p.E203K	232755	COSV61068654
MAP2K1	c.790C>T	p.P264S	224488	COSV61070242
NRAS	c.181C>A	p.Q61K	580	COSV54736310
NRAS	c.181C>G	p.Q61E	581	COSV54743343

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Gene	Nucleotide Change	Amino Acid Change	COSMIC ID	Genomic Mutation ID
NRAS	c.182_183AA>TG/ GG	p.Q61L/ p.Q61R	30646/ 33693	COSV54742436/ COSV54737465
NRAS	c.182A>C	p.Q61P	582	COSV54738969
NRAS	c.182A>G	p.Q61R	584	COSV54736340
NRAS	c.182A>T	p.Q61L	583	COSV54736624
NRAS	c.183A>C	p.Q61H	586	COSV54736320
NRAS	c.183A>T	p.Q61H	585	COSV54736991
NRAS	c.34G>A	p.G12S	563	COSV54736621
NRAS	c.34G>C	p.G12R	561	COSV54736940
NRAS	c.34G>T	p.G12C	562	COSV54736487
NRAS	c.35G>A	p.G12D	564	COSV54736383
NRAS	c.35G>C	p.G12A	565	COSV54736555
NRAS	c.35G>T	p.G12V	566	COSV54736974
NRAS	c.37G>C	p.G13R	569	COSV54736550
NRAS	c.37G>T	p.G13C	570	COSV54736386
NRAS	c.38G>A	p.G13D	573	COSV54736416
NRAS	c.38G>C	p.G13A	575	COSV54736793
NRAS	c.38G>T	p.G13V	574	COSV5473648
RAC1	c.85C>T	p.P29S	125734	COSV61821563
RPS27	c.238C>T	NA	NA	NA
RQCD1	c.392C>T	p.P131L	NA	NA
SDHD	Chr11: 111,957,523 C>T	NA	NA	NA
SDHD	Chr11: 111,957,541 C>T	NA	NA	NA
SDHD	Chr11: 111,957,544 C>T	NA	NA	NA
YAE1D1	Chr7: g.39605965 G>A	NA	NA	NA
YAE1D1	Chr7: g.39605969 G>A	NA	NA	NA

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