

Variant List – UltraSEEK™ Melanoma Panel

Gene	Nucleotide Change	Amino Acid Change	COSMIC ID
c.607G>A	c.1782T>A	p.D594E	1121
	c.1780G>C	p.D594H	144576
	c.1780G>A	p.D594N	27639
	c.1779_1780TG>GA	p.D594N	211600
	c.1781A>T	p.D594V	466
	c.1801A>G	p.K601E	478
	c.1799_1800TG>AT	p.V600D	477
	c.1799T>A	p.V600E	476
	c.1799_1800TG>AA	p.V600E	475
	c.1799T>G	p.V600G	6137
	c.1798_1799GT>AA	p.V600K	473
	c.1798G>A	p.V600M	1130
c.1798_1799GT>AG	p.V600R	474	
CDKN2A	c.238C>T	p.R80X	12475
CTNNB1	c.110C>A	p.S37Y	5666
CTNNB2	c.134C>T	p.S45F	5667
CTNNB3	c.133T>C	p.S45P	5663
CTNNB4	c.134C>A	p.S45Y	5692
DPH3	Chr3: 16,306,504 C>T	N/A	N/A
	Chr3: 16,306,505 C>T	N/A	N/A
IDH1	c.394C>T	p.R132C	28747
	c.395G>A	p.R132H	28746
KIT	c.2446G>C	p.D816H	1311
	c.2447A>T	p.D816V	1314
	c.1924A>G	p.K642E	1304
	c.1727T>C	p.L576P	1290
	c.1676T>C	p.V559A	1255
	c.1676T>A	p.V559D	1252
	c.1669T>A	p.W557R	1216
MAP2K1	c.362G>C	p.C121S	1315829
	c.607G>A	p.E203K	232755
	c.157T>C	p.F53L	555604
	c.332T>G	p.I111S	1238027
	c.332T>G	p.N382H	235617
	c.370C>T	p.P124S	235614
	c.790C>T	p.P264S	224488

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Gene	Nucleotide Change	Amino Acid Change	COSMIC ID
NRAS	c.35G>C	p.G12A	565
	c.34G>T	p.G12C	562
	c.35G>A	p.G12D	564
	c.34G>C	p.G12R	561
	c.34G>A	p.G12S	563
	c.35G>T	p.G12V	566
	c.38G>C	p.G13A	575
	c.37G>T	p.G13C	570
	c.38G>A	p.G13D	573
	c.37G>C	p.G13R	569
	c.38G>T	p.G13V	574
	c.181C>G	p.Q61E	581
	c.183A>T	p.Q61H	585
	c.183A>C	p.Q61H	586
	c.181C>A	p.Q61K	580
	c.182A>T	p.Q61L	583
	c.182_183AA>TG	p.Q61L	30646
	c.182A>C	p.Q61P	582
	c.182A>G	p.Q61R	584
c.182_183AA>GG	p.Q61R	33693	
RAC1	c.85C>T	p.P29S	125734
RPS27	c.238C>T	N/A	N/A
RQCD1	c.392C>T	p.P131L	1692012
SDHD	Chr11: 111,957,523 C>T	N/A	N/A
	Chr11: 111,957,541 C>T	N/A	N/A
	Chr11: 111,957,544 C>T	N/A	N/A
YAE1D1	Chr7: g.39605965 G>A	N/A	N/A
	Chr7: g.39605969 G>A	N/A	N/A

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