



## Variant List – iPLEX® HS Melanoma Panel

Gene	Amino Acid Change	Nucleotide Change	COSMIC ID
BRAF	p.G466V	c.1397G>T	451
	p.G469A	c.1406G>C	460
	p.G469V	c.1406G>T	459
	p.G469E	c.1406G>A	461
	p.N581S	c.1742A>G	462
	p.D594N	c.1779_1780TG>GA	211600
	p.D594N	c.1779T>G	N/A
	p.D594N	c.1780G>A	27639
	p.D594G	c.1781A>G	467
	p.L597V	c.1789C>G	470
	p.L597S	c.1789_1790CT>TC	1126
	p.L597R	c.1790T>G	471
	p.L597Q	c.1790T>A	1125
	p.V600M	c.1798G>A	1130
	p.V600K	c.1798_1799GT>AA	473
	p.V600R	c.1798_1799GT>AG	474
	p.V600E	c.1799T>A	476
	p.V600G	c.1799T>G	6137
	p.V600E	c.1799_1800TG>AA	475
	p.V600D	c.1799_1800TG>AT	477
p.K601E	c.1801A>G	478	
p.V600_K601>E	c.1799_1801delTGA	1133	
GNA11	p.R183C	c.546_547CC>TT	52974
	p.R183C	c.547C>T	21651
	p.Q209L	c.626A>T	52969
GNAQ	p.R183Q	c.548G>A	52975
	p.Q209L	c.626A>T	52969
	p.Q209P	c.626A>C	28758
HRAS	p.Q61K	c.181C>A	496
	p.Q61R	c.182A>T	498
	p.Q61P	c.182A>G	499
KRAS	p.K117N	c.351A>C	19940
	p.K117N	c.351A>T	28519
	p.G12D	c.35G>A	521
	p.G12V	c.35G>T	520
	p.G12A	c.35G>C	522
KIT	p.Y503_F504insAY	c.1509_1510insGCCTAT	1326
	p.W557R	c.1669T>A	1216
	p.W557R	c.1669T>C	1219

## Variant List – iPLEX HS Melanoma Panel (PAGE 2 OF 3)

Gene	Amino Acid Change	Nucleotide Change	COSMIC ID
KIT	p.W557G	c.1669T>G	1221
	p.W557_K558del	c.1669_1674delTGGGAG	1217
	p.V559A	c.1676T>C	1255
	p.V559D	c.1676T>A	1252
	p.V559G	c.1676T>G	1253
	p.V560D	c.1679T>A	1257
	p.L576P	c.1727T>C	1290
	p.K642E	c.1924A>G	1304
	p.V654A	c.1961T>C	12706
	p.T670I	c.2009C>T	12708
	p.D816H	c.2446G>C	1311
	p.D816Y	c.2446G>T	1310
	p.D816A	c.2447A>C	24675
	p.D816G	c.2447A>G	12711
	p.D816V	c.2447A>T	1314
	p.D820H	c.2458G>C	22379
	p.D820N	c.2458G>A	17947
	p.D820Y	c.2458G>T	12710
	p.D820A	c.2459A>C	133670
	p.D820G	c.2459A>G	1316
	p.D820V	c.2459A>T	1317
	p.D820E	c.2460T>A	12709
	p.D820E	c.2460T>G	19280
	p.N822H	c.2464A>C	1318
	p.N822Y	c.2464A>T	19109
	p.N822K	c.2466T>A	1321
	p.N822K	c.2466T>G	1322
	p.Y823D	c.2467T>G	18681
	p.A829P	c.2485G>C	13172
	NRAS	p.G12C	c.34G>T
p.G12R		c.34G>C	561
p.G12S		c.34G>A	563
p.G12D		c.35G>A	564
p.G12A		c.35G>C	565
p.G12V		c.35G>T	566
p.G13R		c.37G>C	569
p.G13C		c.37G>T	570
p.G13S		c.37G>A	571
p.G13D		c.38G>A	573
p.G13A		c.38G>C	575

## Variant List – iPLEX HS Melanoma Panel (PAGE 3 OF 3)

Gene	Amino Acid Change	Nucleotide Change	COSMIC ID
NRAS	p.G13V	c.38G>T	574
	p.Q61K	c.181C>A	580
	p.Q61E	c.181C>G	581
	p.Q61P	c.182A>C	582
	p.Q61R	c.182A>G	584
	p.Q61L	c.182A>T	583
	p.Q61H	c.183A>C	586
	p.Q61H	c.183A>T	585
PTEN	p.R130G	c.388C>G	5219
	p.R130*	c.388C>T	5152
	p.R130P	c.389G>C	5277
	p.R130Q	c.389G>A	5033
	p.R130L	c.389G>T	5216
RAC1	p.P29S	c.85C>T	125734
RPS27	Chr1:153963239C>T 5'UTR	N/A	N/A
TERT	C228T_Promoter	N/A	N/A
	C250T_Promoter	N/A	N/A

For Research Use Only. Not for use in diagnostic procedures.

3

Agena Bioscience, Inc.  
4755 Eastgate Mall  
San Diego, CA 92121  
Phone: +1.858.882.2800

Order Desk: +1.858.202.9301  
Order Desk Fax: +1.858.202.9220  
orderdesk@agenabio.com  
Web: agenabio.com

**US** +1.877.4.GENOME  
**EU** +49.40.899676.0  
**AP** +61.7.3088.1600  
**CN** +86.21.6427.0566

