

## Variant List – iPLEX® HS Melanoma Panel v2

Gene	Nucleotide Change	Amino Acid Change	COSMIC ID	Genomic Mutation ID
BRAF	p.G466V	c.1397G>T	451	COSV56057462
	p.G469A	c.1406G>C	460	COSV56061424
	p.G469V	c.1406G>T	459	COSV56062352
	p.G469E	c.1406G>A	461	COSV56065622
	p.N581S	c.1742A>G	462	COSV56058108
	p.D594N	c.1779_1780TG>GA	211600	COSV56066597
	p.G593G	c.1779T>G	N/A	N/A
	p.D594N	c.1780G>A	27639	COSV56061673
	p.D594G	c.1781A>G	467	COSV56065695
	p.L597V	c.1789C>G	470	COSV56128388
	p.L597S	c.1789_1790CT>TC	1126	COSV56070905
	p.L597R	c.1790T>G	471	COSV56121113
	p.L597Q	c.1790T>A	1125	COSV56072463
	p.V600M	c.1798G>A	1130	COSV56075762
	p.V600K	c.1798_1799GT>AA	473	COSV56057713
	p.V600R	c.1798_1799GT>AG	474	COSV56058419
	p.V600E	c.1799T>A	476	COSV56056643
	p.V600G	c.1799T>G	6137	COSV56080151
	p.V600E	c.1799_1800TG>AA	475	COSV56059110
	p.V600D	c.1799_1800TG>AT	477	COSV56059623
	p.V600G	c.1799T>G	6137	COSV56080151
	p.V600V	c.1800G>T	1578949	COSV56109586
	p.V600V	c.1800G>A	249890	COSV56107175
p.K601E	c.1801A>G	478	COSV56058494	
p.V600_K601>E	c.1799_1801delTGA	1133	COSV56060025	
GNA11	p.R183C	c.546_547CC>TT	52974	COSV50017985
	p.R183C	c.547C>T	21651	COSV50017316
	p.Q209L	c.626A>T	52969	COSV50017277
GNAQ	p.R183Q	c.548G>A	52975	COSV54106047
	p.Q209L	c.626A>T	52969	COSV54105914
	p.Q209P	c.626A>C	28758	COSV54105903
HRAS	p.Q61K	c.181C>A	496	COSV54236740
	p.Q61L	c.182A>T	498	COSV54236656
	p.Q61R	c.182A>G	499	COSV54236691
KIT	p.Y503_F504insAY	c.1509_1510insGCCTAT	12444	N/A
	p.W557R	c.1669T>A	1216	COSV55389479
	p.W557R	c.1669T>C	1219	COSV55386440
	p.W557G	c.1669T>G	1221	COSV55387014
	p.W557_K558del	c.1669_1674delTGGAAG	1210	COSV55387046

Variant List – iPLEX® HS Melanoma Panel v2 (PAGE 2 OF 3)

Gene	Nucleotide Change	Amino Acid Change	COSMIC ID	Genomic Mutation ID
KIT	p.V559A	c.1676T>C	1255	COSV55388782
	p.V559D	c.1676T>A	1252	COSV55386973
	p.V559G	c.1676T>G	1253	COSV55393324
	p.V560D	c.1679T>A	1257	COSV55386785
	p.L576P	c.1727T>C	1290	COSV55386593
	p.K642E	c.1924A>G	1304	COSV55387507
	p.V654A	c.1961T>C	12706	COSV55389496
	p.T670I	c.2009C>T	12708	COSV55410040
	p.D816H	c.2446G>C	1311	COSV55386862
	p.D816Y	c.2446G>T	1310	COSV55387240
	p.D816A	c.2447A>C	24675	COSV55388612
	p.D816G	c.2447A>G	12711	COSV55408930
	p.D816V	c.2447A>T	1314	COSV55386424
	p.D820H	c.2458G>C	22379	COSV55397865
	p.D820N	c.2458G>A	17947	COSV55435132
	p.D820Y	c.2458G>T	12710	COSV55387253
	p.D820A	c.2459A>C	133670	COSV55405326
	p.D820G	c.2459A>G	1316	COSV55387023
	p.D820V	c.2459A>T	1317	COSV55391660
	p.D820E	c.2460T>A	12709	COSV55394297
	p.D820E	c.2460T>G	19280	COSV55394417
	p.N822H	c.2464A>C	1318	COSV55389464
	p.N822Y	c.2464A>T	19109	COSV55387376
	p.N822K	c.2466T>A	1321	COSV55389584
	p.N822K	c.2466T>G	1322	COSV55387147
	p.Y823D	c.2467T>G	18681	COSV55388545
p.A829P	c.2485G>C	13172	COSV55414160	
KRAS	p.K117N	c.351A>C	19940	COSV55545304
	p.K117N	c.351A>T	28519	COSV55504752
	p.G12D	c.35G>A	521	COSV55497369
	p.G12V	c.35G>T	520	COSV55497419
	p.G12A	c.35G>C	522	COSV55497479
NRAS	p.G12C	c.34G>T	562	COSV54736487
	p.G12R	c.34G>C	561	COSV54736940
	p.G12S	c.34G>A	563	COSV54736621
	p.G12D	c.35G>A	564	COSV54736383
	p.G12A	c.35G>C	565	COSV54736555
	p.G12V	c.35G>T	566	COSV54736974
	p.G13R	c.37G>C	569	COSV54736550
p.G13C	c.37G>T	570	COSV54736386	

## Variant List – iPLEX® HS Melanoma Panel v2 (PAGE 3 OF 3)

Gene	Nucleotide Change	Amino Acid Change	COSMIC ID	Genomic Mutation ID
NRAS	p.G13S	c.37G>A	571	COSV54736476
	p.G13I	c.37_39GGT>ATT	N/A	N/A
	p.G13N	c.37_39GGT>AAT	24668	COSV54751440
	p.G13T	c.37_39GGT>ACT	N/A	N/A
	p.G13H	c.37_39GGT>CAT	N/A	N/A
	p.G13L	c.37_39GGT>CTT	N/A	N/A
	p.G13P	c.37_39GGT>CCT	N/A	N/A
	p.G13F	c.37_39GGT>TTT	6970923	COSV54751156
	p.G13S	c.37_39GGT>TCT	N/A	N/A
	p.G13Y	c.37_39GGT>TAT	568	COSV54765059
	p.G13D	c.38G>A	573	COSV54736416
	p.G13A	c.38G>C	575	COSV54736793
	p.G13V	c.38G>T	574	COSV54736480
	p.Q61K	c.181C>A	580	COSV54736310
	p.Q61E	c.181C>G	581	COSV54743343
	p.Q61P	c.182A>C	582	COSV54738969
	p.Q61R	c.182A>G	584	COSV54736340
	p.Q61L	c.182A>T	583	COSV54736624
	p.Q61H	c.183A>C	586	COSV54736320
	p.Q61H	c.183A>T	585	COSV54736991
PTEN	p.R130G	c.388C>G	5219	COSV64288384
	p.R130*	c.388C>T	5152	COSV64288463
	p.R130P	c.389G>C	5277	COSV64288604
	p.R130Q	c.389G>A	5033	COSV64288376
	p.R130L	c.389G>T	5216	COSV64291054
	p.R233*	c.697C>T	64288653	COSV64288653
RAC1	p.P29S	c.85C>T	125734	COSV61821563
RPS27	Chr1:153963239C>T 5'UTR	N/A	N/A	N/A
TERT	C228T_Promoter	N/A	N/A	N/A
	C250T_Promoter	N/A	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: www.agenabio.com

Online Support:  
<https://support.agenabio.com>

