

## Variant List – UltraSEEK® Colon Panel v2 (RUO)

Gene	Nucleotide Change	Amino Acid Change	COSMIC ID	Genomic Mutation ID
BRAF	c.1406G>A	p.G469E	461	COSV56065622
BRAF	c.1406G>C	p.G469A	460	COSV56061424
BRAF	c.1781A>G	p.D594G	467	COSV56065695
BRAF	c.1781A>T	p.D594V	466	COSV56283955
BRAF	c.1799T>A	p.V600E	476	COSV56056643
EGFR	c.1351C>A	p.R451S	NA	NA
EGFR	c.1351C>G	p.R451G	NA	NA
EGFR	c.1351C>T	p.R451C	3266583	COSV51767869
EGFR	c.1391C>T	p.S464L	9396332	COSV104576577
EGFR	c.1393G>A	p.G465R	6110417	COSV51776247
EGFR	c.1393G>C	p.G465R	9413136	COSV104577026
EGFR	c.1394G>A	p.G465E	9413135	COSV104577027
EGFR	c.1400A>C	p.K467T	9396331	COSV104576891
EGFR	c.1473A>G	p.L491M	9396333	COSV104576981
EGFR	c.1474A>C	p.S492R	236671	COSV51811159
EGFR	c.1476C>A/G	p.S492R	236670	COSV51769792
KRAS	c.175G>A	p.A59T	546	COSV55499283
KRAS	c.175G>C	p.A59P	NA	NA
KRAS	c.175G>T	p.A59S	1235389	COSV55796966
KRAS	c.176C>A/G	p.A59E/p.A59G	547/28518	COSV55568979/ COSV55604554
KRAS	c.181C>A/G	p.Q61K/p.Q61E	549/550	COSV55502066/ COSV55502677
KRAS	c.182A>C/T	p.Q61P/p.Q61L	551/553	COSV55508574/ COSV55504296
KRAS	c.182A>G	p.Q61R	552	COSV55498739
KRAS	c.183A>C/T	p.Q61H	554/555	COSV55498802/ COSV55499223
KRAS	c.349A>G	p.K117E	6854420	COSV55716212
KRAS	c.34G>A	p.G12S	517	COSV55497461
KRAS	c.34G>C	p.G12R	518	COSV55497582
KRAS	c.34G>T/C	p.G12C/p.G12R	516/518	COSV55497469/ COSV55497582
KRAS	c.350A>C	p.K117T	NA	NA
KRAS	c.350A>G	p.K117R	4696721	COSV55937655
KRAS	c.351A>C/T	p.K117N	19940/28519	COSV55545304/ COSV55504752
KRAS	c.35G>A	p.G12D	521	COSV55497369
KRAS	c.35G>C/T	p.G12A/p.G12V	522/520	COSV55497479/ COSV55497419

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Gene	Nucleotide Change	Amino Acid Change	COSMIC ID	Genomic Mutation ID
KRAS	c.36T>A/G	p.G12G	524	COSV55510792
KRAS	c.37G>A	p.G13S	528	COSV55509530
KRAS	c.37G>T/C	p.G13C/p.G12R	527/529	COSV55497378/ COSV55502117
KRAS	c.38G>A	p.G13D	532	COSV55497388
KRAS	c.38G>C	p.G13A	533	COSV55497357
KRAS	c.38G>C/T	p.G13A/p.G13V	533/534	COSV55497357/ COSV55522580
KRAS	c.436G>A	p.A146T	19404	COSV55501778
KRAS	c.436G>C	p.A146P	19905	COSV55541748
KRAS	c.437C>G	p.A146G	NA	NA
KRAS	c.437C>T	p.A146V	19900	COSV55498939
NRAS	c.175G>A	p.A59T	578	COSV54743124
NRAS	c.176C>G	p.A59G	5878737	COSV54746465
NRAS	c.181C>A/G	p.Q61K/p.Q61E	580/581	COSV54736310/ COSV54743343
NRAS	c.182A>C/T	p.Q61P/p.Q61L	582/583	COSV54738969/ COSV54736624
NRAS	c.182A>G	p.Q61R	584	COSV54736340
NRAS	c.183A>C/T	p.Q61H	585/586	COSV54736991/ COSV54736320
NRAS	c.34_35GG>TA	p.G12Y	560	COSV54739656
NRAS	c.349A>G	p.K117E	NA	NA
NRAS	c.34G>A	p.G12S	563	COSV54736621
NRAS	c.34G>C	p.G12R	561	COSV54736940
NRAS	c.34G>C/c.34G>T	p.G12R/p.G12C	561/562	COSV54736940/ COSV54736487
NRAS	c.350A>C	p.K117T	NA	NA
NRAS	c.350A>G	p.K117R	NA	NA
NRAS	c.351G>C/c.351G>T	p.K117N	NA	NA
NRAS	c.35G>A	p.G12D	564	COSV54736383
NRAS	c.35G>C/ c.35G>T	p.G12A/ p.G12V	565/ 566	COSV54736555/ COSV54736974
NRAS	c.36T>A/G	p.G12G	NA	NA
NRAS	c.37G>A	p.G13S	571	COSV54736476
NRAS	c.37G>C	p.G13R	569	COSV54736550
NRAS	c.37G>C/ c.37G>T	p.G13R/ p.G13C	569/ 570	COSV54736550/ COSV54736386
NRAS	c.38G>A	p.G13D	573	COSV54736416
NRAS	c.38G>C	p.G13A	575	COSV54736793
NRAS	c.38G>T/ c.38G>C	p.G13V/ p.G13A	574/ 575	COSV54736480/ COSV54736793
NRAS	c.436G>A	p.A146T	27174	COSV65731978

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NRAS	c.436G>C/c.436G>T	p.A146P/p.A146S	4172577/NA	NA
NRAS	c.437C>G	p.A146G	NA	NA
NRAS	c.437C>T	p.A146V	4170228	COSV65746912
PIK3CA	c.1624G>A	p.E542K	760	COSV55873227
PIK3CA	c.1633G>A	p.E545K	763	COSV55873239
PIK3CA	c.3140A>G	p.H1047R	775	COSV55873195
PIK3CA	c.3140A>T	p.H1047L	776	COSV55873401

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