

## Variant List – UltraSEEK™ Colon Panel

Gene	Nucleotide Change	Amino Acid Change	COSMIC ID
BRAF	c.1406G>C	p.G469A	460
	c.1406G>A	p.G469E	461
	c.1781A>T	p.D594V	466
	c.1781A>G	p.D594G	467
	c.1799T>A	p.V600E	476
EGFR	c.1476C>A/G	p.S492R	236670
	c.1474A>C	p.S492R	236671
	c.1351C>A/c.1351C>G	p.R451S	NA
	c.1351C>T	p.R451C	NA
	c.1391C>T	p.S464L	NA
	c.1393G>A	p.G465R	6110417
	c.1393G>A/C	p.G465R	NA
	c.1394G>A	p.G465E	NA
	c.1400A>C	p.K467T	NA
c.1473A>G	p.L491M	NA	
KRAS	c.34_35GG>TT	p.G12F	512
	c.34_35GG>CT	p.G12L	514
	c.35_36GT>TC	p.G12V	515
	c.34G>T	p.G12C	516
	c.34G>A	p.G12S	517
	c.34G>C	p.G12R	518
	c.35G>T	p.G12V	520
	c.35G>A	p.G12D	521
	c.35G>C	p.G12A	522
	c.37_39GGC>CGT	p.G13R	526
	c.37G>T	p.G13C	527
	c.37G>A	p.G13S	528
	c.37G>C	p.G13R	529
	c.38G>A	p.G13D	532
	c.38G>C	p.G13A	533
	c.38G>T	p.G13V	534
	c.175G>A	p.A59T	546
	c.176C>A	p.A59E	547
	c.181C>A	p.Q61K	549
	c.181C>G	p.Q61E	550
	c.182A>C	p.Q61P	551
c.182A>G	p.Q61R	552	
c.182A>T	p.Q61L	553	
c.183A>C	p.Q61H	554	

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Gene	Nucleotide Change	Amino Acid Change	COSMIC ID
KRAS	c.183A>T	p.Q61H	555
	c.38_39GC>TT	p.G13V	12721
	c.436G>A	p.A146T	19404
	c.437C>T	p.A146V	19900
	c.436G>C	p.A146P	19905
	c.351A>C	p.K117N	19940
	c.34_35GG>TA	p.G12Y	25081
	c.176C>G	p.A59G	28518
	c.351A>T	p.K117N	28519
	c.35_36GT>AG	p.G12E	30566
	c.34_36GGT>TGG	p.G12W	36281
	c.180_181TC>AA	p.Q61K	87298
	c.34_36GGT>AGA	p.G12R	249888
	c.175G>T	p.A59S	1235389
	c.176_178delCAG	p.A59del	1667040
	c.37_38GG>TT	p.G13F	1685355
	c.350A>G	p.K117R	4696722
	c.35_36GT>CA	p.G12A	5413585
	c.175G>C	p.A59P	NA
	c.349A>G	p.K117E	NA
c.350A>C	p.K117T	NA	
c.437C>G	p.A146G	NA	
NRAS	c.34_35GG>CC	p.G12P	559
	c.34_35GG>TA	p.G12Y	560
	c.34G>C	p.G12R	561
	c.34G>T	p.G12C	562
	c.34G>A	p.G12S	563
	c.35G>A	p.G12D	564
	c.35G>C	p.G12A	565
	c.35G>T	p.G12V	566
	c.37_38GG>TA	p.G13Y	568
	c.37G>C	p.G13R	569
	c.37G>T	p.G13C	570
	c.37G>A	p.G13S	571
	c.38_39GT>TC	p.G13V	572
	c.38G>A	p.G13D	573
	c.38G>T	p.G13V	574
	c.38G>C	p.G13A	575
	c.175G>A	p.A59T	578
	c.181C>A	p.Q61K	580

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Gene	Nucleotide Change	Amino Acid Change	COSMIC ID
NRAS	c.181C>G	p.Q61E	581
	c.182A>C	p.Q61P	582
	c.182A>T	p.Q61L	583
	c.182A>G	p.Q61R	584
	c.183A>T	p.Q61H	585
	c.183A>C	p.Q61H	586
	c.34_35GG>AA	p.G12N	12723
	c.37_38GG>AA	p.G13N	24668
	c.436G>A	p.A146T	27174
	c.182_183AA>TG	p.Q61L	30646
	c.182_183AA>GG	p.Q61R	33693
	c.181_183CAA>AAG	p.Q61K	53223
	c.437C>T	p.A146V	4170228
	c.436G>C	p.A146P	4172577
	c.349A>G	p.K117E	NA
	c.350A>C	p.K117T	NA
	c.350A>G	p.K117R	NA
	c.351G>C	p.K117N	NA
	c.351G>T	p.K117N	NA
	c.436G>T	p.A146S	NA
c.437C>G	p.A146G	NA	
PIK3CA	c.1624G>A	p.E542K	760
	c.1633G>A	p.E545K	763
	c.3140A>G	p.H1047R	775
	c.3140A>T	p.H1047L	776

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