



Calgary Molecular Pathology-FMC Agena iPLEX[®] HS Colon Panel v2: Panel content

Gene	Amino Acid Position	Mutation	Gene Position (CDS)	Comments
BRAF	p.G469E		c.1406G>A	
	p.D594G		c.1781A>G	
	p.V600E		c.1799T>A	
EGFR	p.S492R		c.1474A>C	
	p.S492R		c.1476C>A/G	
KRAS	p.A59T		c.175G>A	
	p.A59S		c.175G>T	
	p.A59E		c.176C>A	
	p.A59G		c.176C>G	
	p.Q61K		c.181C>A	
	p.Q61E		c.181C>G	
	p.Q61P		c.182A>C	
	p.Q61R		c.182A>G	
	p.Q61R		c.182_183AA>GT	
	p.Q61L		c.182A>T	
	p.Q61H		c.183A>C	
	p.Q61H		c.183A>T	
	p.G12I		c.34_35GG>AT	
	p.G12L		c.34_35GG>CT	
	p.G12Y		c.34_35GG>TA	
	p.G12F		c.34_35GG>TT	
	p.G12W		c.34_36GGT>TGG	
	p.G12S		c.34G>A	
	p.G12R		c.34G>C	
	p.G12R		c.34_36GGT>AGA	
	p.G12C		c.34G>T	
	p.K117R		c.350A>G	
	p.K117N		c.351A>C	
	p.K117N		c.351A>T	
	p.G12E		c.35_36GT>AG	
	p.G12D		c.35G>A	
	p.G12D		c.35_36GT>AC	
	p.G12A		c.35G>C	
	p.G12A		c.35_36GT>CA	
	p.G12V		c.35G>T	
	p.G12V		c.35_36GT>TC	
	p.G13F		c.37_38GG>TT	
	p.G13S		c.37G>A	
	p.G13R		c.37G>C	



Gene	Mutation		Comments
	Amino Acid Position	Gene Position (CDS)	
KRAS cont'd	p.G13R	c.37_39GGC>CGT	
	p.G13C	c.37G>T	
	p.G13E	c.38_39GC>AG	
	p.G13E	c.38_39GC>AA	
	p.G13D	c.38G>A	
	p.G13D	c.38_39GC>AT	
	p.G13A	c.38G>C	
	p.G13V	c.38G>T	
	p.G13V	c.38_39GC>TT	
	p.A146T	c.436G>A	
	p.A146P	c.436G>C	
	p.A146G	c.437C>G	
	p.A146V	c.437C>T	
NRAS	p.A59T	c.175G>A	
	p.A59G	c.176C>G	
	p.Q61K	c.181C>A	
	p.Q61E	c.181C>G	
	p.Q61P	c.182A>C	
	p.Q61R	c.182A>G	
	p.Q61L	c.182A>T	
	p.Q61H	c.183A>C	
	p.Q61H	c.183A>T	
	p.K117E	c.349A>G	
	p.G12S	c.34G>A	
	p.G12R	c.34G>C	
	p.G12C	c.34G>T	
	p.K117R	c.350A>G	
	p.K117N	c.351G>C	
	p.K117N	c.351G>T	
	p.G12D	c.35G>A	
	p.G12A	c.35G>C	
	p.G12V	c.35G>T	
	p.G13S	c.37G>A	
	p.G13R	c.37G>C	
	p.G13C	c.37G>T	
	p.G13D	c.38G>A	
	p.G13A	c.38G>C	
	p.G13V	c.38G>T	
	p.A146T	c.436G>A	
	p.A146P	c.436G>C	
	p.A146S	c.436G>T	
	p.A146G	c.437C>G	



Gene	Mutation		Comments
	Amino Acid Position	Gene Position (CDS)	
NRAS cont'd	p.A146V	c.437C>T	
PIK3CA	p.E542K	c.1624G>A	
	p.E545K	c.1633G>A	
	p.H1047R	c.3140A>G	
	p.H1047L	c.3140A>T	

Contact Information

*Alberta Precision Laboratories (APL), Molecular Pathology Laboratory FMC
403-220-4240*

References

Agena reference document: Variant List – iPLEX[®] HS Colon Panel v2 (ONC0046 01)
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