



Colon Cancer

Mutation Profiling

Background

Colon cancer is the second leading cause of cancer-related deaths worldwide. In 2020, more than 1.9 million new cases and more than 930 000 deaths were estimated. Common symptoms include diarrhoea, constipation, blood in stool, abdominal pain, unexplained weight loss, fatigue and low iron levels.

Risk Factors

- Age : The risk increases with age, with most cases occurring in individuals over 50 years old
- Personal : Individuals who have had colorectal cancer before or certain types of polyps are at a higher risk
- Lifestyle : Unhealthy choices, such as a diet high in processed meats and low in fruits and vegetables, sedentary behaviour, obesity, smoking and excessive alcohol consumption

Our Solution

Colon Cancer[®] Panel

Enable to detection of low-abundance somatic mutation in colon cancer research.

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

Lifomics Co., Ltd.
Your Genomic Expert (66)2454 8534

Genes & Variants for Colon Panel

Pre-designed panel for the identification of markers across 3 genes in Thai people for comprehensive profiling of colon cancer samples.

Gene	Nucleotide Change	Amino Acid Change
BRAF	c.1798_1799delinsAA	V600K
	c.1798_1799delinsAG	V600R
	c.1799_1800delinsAA	V600E
	c.1799_1800delinsAC	V600D
KRAS	c.1799T>A	p.V600E
	c.175G>A	p.A59T
	c.175G>T	p.A59S
	c.176C>A	p.A59E
	c.176C>G	p.A59G
	c.180_181delinsAA/c.181C>A	Q61K
	c.181C>A	p.Q61K
	c.181C>G	p.Q61E
	c.182A>C	p.Q61P
	c.182A>G	p.Q61R
	c.182A>T	p.Q61L
	c.183A>C	p.Q61H
	c.183A>T	p.Q61H
	c.34G>A	p.G12S
	c.34G>C	p.G12R
	c.34G>T	p.G12C
	c.351A>C	p.K117N
	c.351A>T	p.K117N
	c.35G>A	p.G12D
	c.35G>C	p.G12A
	c.35G>T	p.G12V
	c.37G>A	p.G13S
	c.37G>C	p.G13R
	c.37G>T	p.G13C
	c.38_39GC>TT	p.G13V
	c.38G>A	p.G13D
	c.38G>C	p.G13A
	c.38G>T	p.G13V
	c.436G>A	p.A146T
	c.436G>C	p.A146P
	c.437C>T	p.A146V
NRAS	c.175G>A	p.A59T
	c.176C>A	A59D
	c.176C>G	p.A59G
	c.181C>A	p.Q61K
	c.182A>C	p.Q61P
	c.182A>G	p.Q61R
	c.182A>T	p.Q61L
	c.183A>C	p.Q61H
	c.183A>T	p.Q61H
	c.34G>A	p.G12S
	c.34G>C	p.G12R
	c.34G>T	p.G12C
	c.351G>C	p.K117N
	c.351G>T	p.K117N
	c.35G>A	p.G12D
	c.35G>C	p.G12A
	c.35G>T	p.G12V
	c.37G>A	p.G13S
	c.37G>C	p.G13R
	c.37G>T	p.G13C
	c.38G>A	p.G13D
	c.38G>C	p.G13A
	c.38G>T	p.G13V
	c.436G>A	p.A146T
	c.437C>T	p.A146V

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