

KRAS (G13D/+) Cell line Engineering Summary

Genotype	rs #	Cosmic ID	Position			
			Chromosome Number	Chromosome	Gene	Transcript
KRAS (G13D/+)	rs112445441	COSM532	12p12.1	g.25398281C>T (GRCh37) g.25245347C>T (GRCh38)	g.10574G>A	c.38G>A

Protein	Base change	Context	AA change
p.Gly13Asp	GGC ⇒ GAC	GGAGCTGGTG (G>A) CGTAGGCAAG	G [Gly] ⇒ D [Asp]

Reference sequence: Ensembl transcript KRAS-001 ENST00000311936

agaactgtctatgtagcatttatgcatttttcttaagcgtcgatggaggagtttgtaaataaggtacagttcatt
acgatac] [acgtctgcagtcactggaattttcatgattgaattttgtaaggattttgaaataattttcat
ataaaggtgagtttgattaaaaggtactggtggagtattgatagtgtattaacctatgtgtgacatgttcta
atatagtcacattttcattatttttattataagGCCTGCTGAAAATGACTGAATATAAACTTGTGGTAGTTGGAG
CTGGTG (**G>A**) CGTAGGCAAGAGTGCCTTGACGATACAGCTAATTCAGAATCATTTTGTGGACGAATATGATC
CAACAATAGAGgtaaatacttggttttaatatgcatattactggtgcaggaccattCtttgatacagataaagggtt
ctctgaccattttcatgagtacttattacaagataattatgctgaaagttaagttatctgaaatgtacctgggt
ttcaagttatatgtaaccattaatatgggaactttactttccttgggagatgtcagggtccatgatgttcactc
tctgtgcattttgattggaagtgtat

Lowercase blue sequence indicates intron

Uppercase PURPLE sequence indicates UTR

Uppercase BLACK sequence indicates exon coding sequence

]] indicates the site of engineering

(G>A) indicates the G13D mutation

Contact Horizon Diagnostics

Please note that primers designed upstream or across the engineering site will have a reduced efficiency and your assay may fail. Please contact us at technical@horizondx.com if you have any questions.

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