

KRAS (G12D/+) Cell line Engineering Summary

Genotype	rs #	Cosmic ID	Position			
			Chromosome Number	Chromosome	Gene	Transcript
KRAS (G12D/+)	rs121913529	COSM521	12p12.1	g.25398284C>T (GRCh37) g.25245350C>T (GRCh38)	g.10571G>A	c.35G>A

Protein	Base change	Context	AA change
p.Gly12Asp	GGT ⇒ GAT	GTTGGAGCTG (G>A) TGGCGTAGGC	G [Gly] ⇒ D [Asp]

Reference sequence: Ensembl transcript KRAS-001 ENST00000311936

agaactgtctatgtagcatttatgcatttttcttaagcgtcgcgatggaggagtttgtaaatagaagtac
agttcattacgataca] [cgtctgcagtcgaactggaattttcatgattgaattttgtaaggatatttg
aaataattttcatataaagggtgagtttgattaaaaggactggtggagtatttgatagtgtattaa
ccttatgtgtgacatgttctaataatagtcacattttcattatttttattataagGCCTGCTGAAAATG
ACTGAATATAAACTTGTGGTAGTTGGAGCTG (**G>A**) TGGCGTAGGCAAGAGTGCCTTGACGATACAG
CTAATTCAGAATCATTTTGTGGACGAATATGATCCAACAATAGAGgtaaatcttgtttttaatatgcat
attactggtgcaggAccattctttgata

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 G12D 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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