

PI3K α (H1047R/+) Cell line Engineering Summary

Genotype	rs #	Cosmic ID	Position		
			Chromosome	Gene	Transcript
PI3K α (H1047R/+)	rs121913279	COSM775	g.178952085A>G	g.90775A>G	c.3140A>G

Protein	Base change	Context	AA change
p.His1047Arg	CAT \Rightarrow CGT	AATGATGCAC[A>G]TCATGGTGGC	H [His] \Rightarrow R [Arg]

Reference sequence: Ensembl transcript PIK3CA-001 ENST00000263967

tattttttatagctttgtctacgaaagcctctctaattttgtgacatttgagcaagacctgaaggtattaacat] [catt
 tgctccaaactgaccaaactgttcttattacttatagGTTTCAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGACAGCA
 TGCCAATCTCTCATAAATCTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCATAC
 ATTTCGAAAGACCCTAGCCTTAGATAAAAAGAGGCTTTGGAGTATTTTCATGAAACAAATGAATGATGCAC (**A>G**)
 TCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCACACAATTAACAGCATGCATTGAACTGAAAAGATAACTGAGAA
 AATGAAAGCTCACTCTGGATTCCACACTGCACGTGTTAATAACTCTCAGCAGGCAAAGACCGATTGCATAGGAATTGCACAAT
 CCATGAACAGCATTAGAATT

Lowercase **blue** sequence indicates intron

Uppercase **PURPLE** sequence indicates UTR

Uppercase **BLACK** sequence indicates exon coding sequence

]] indicates the site of engineering

(A>G) indicates the H1047R mutation

Large **bold** indicates the H1047R codon

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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