

EGFR (Δ E746-A750/+) Cell line Engineering Summary

Genotype	rs #	Cosmic ID	Position			
			Chromosome Number	Chromosome	Gene	Transcript
EGFR Δ E746-A750	rs121913421	COSM6223	7p12	g.55242465_55242479 delGGAATTAAGAGAAGC (GRCh37) g.55174772-55174786 delGGAATTAAGAGAAGC (GRCh38)	g.160741_160755 delGGAATTAAGA GAAGC	c.2235_2249 delGGAATTA AGAGAAGC

Protein	Base change	Context	AA change
p.Lys745_ Ala750	AAGGAATTAAGAGAAGCA \Rightarrow AA	TCGCTATCAA (GGAATTAAGAGAAGC >-) AACATCTCCG	KELREA \Rightarrow K [Lys]

Reference sequence: Ensembl transcript: EGFR-004 ENST00000455089

tgccggggcggtcacagccccagcaatatcagccttaggtgctgggtccacagcccagtggtccctcaccttcggggtgcatcgctggtaacatccaccagatcactgggcagcatgtggcaccatctcacaattgccagttaacgtcttccttctctctctgtcatagGGAATTAAGAGAAGC/ AACATCTCCGAAAGCCAACAAGGAAATCCTCGATgtgagtttctgctttgctgtgtgggggtccatggctctgaacctcaggcccaccttttctcatgtctggcagctgctctgctctagacctgctcatctc] [cacatcctaataatgttcactttctatgtctttccctttctagctctagtgggtataactccctccccttagagacagcactggcctctccatgctgggtatccaccccaaaaggctggaaacaggcaattactggcatctaccagc

Lowercase blue sequence indicates intron
 Uppercase BLACK sequence indicates exon coding sequence
][indicates the site of engineering
 (**GGAATTAAGAGAAGC/**) indicates the Δ E746-A750 deletion

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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