

## EGFR (L858R/+) Cell line Engineering Summary

Genotype	rs #	Cosmic ID	Position			
			Chromosome Number	Chromosome	Gene	Transcript
EGFR (L858R/+)	rs121434568	COSM6224	7p12	g.55259515T>G (GRCh37) g.55191822T>G (GRCh38)	g.177791T>G	c.2573T>G

Protein	Base change	Context	AA change
p.Leu858Arg	CTG ⇒ CGG	GATTTTGGGC ( <b>T&gt;G</b> ) GGCCAAACTG	L [Leu] ⇒ R [Arg]

Reference sequence: Ensembl transcript: EGFR-001 ENST00000275493

caggaagg<sup>tc</sup>cagcctggcaagtccagtaagttcaagcccagggtctcaactgggcagcagagctcctgctcttctt  
tgcctcatatacagagcacctctggacttaaaacttgaggaaactggatggagaaaagttaatggtcagcagcggg  
ttacatcttctttcatgcgctttccattctttggatcagtagtcactaacgttcgc] [cagccataagtctcgc  
acgtggagaggctcagagcctggcatgaacatgaccctgaattcggatgcagagcttcttcccatgatgatctgt  
ccctcacagcaggggtcttctctgtttcagGGCATGAACTACTTGGAGGACCGTCGCTTGGTGACCGCGACCTGG  
CAGCCAGGAACGTACTGGTGAAAACACCGCAGCATGTCAAGATCACAGATTTTGGGC (**T>G**) GGCCAAACTGC  
TGGGTGCGGAAGAGAAAAGAATACCATGCAGAAGGAGGCCAAAgtaaggaggtggcttttaggtcagccagcattttc  
ctgacaccagggaccaggctgccttccactagctgtattgtttaacacatgcaggggaggatgctctccagaca  
ttctgggtgagctcgcagcagctgctgctggcagctgggtccagccaggtctcctggtagtgtagccagagct  
gcttgggaacagtacttgcctgggacagtgatgaggatggtatccccaggtgatcattagcaaatgtaggtt  
cagtctctccctgcaggatataaagtccccttcaatagcg

Lowercase **blue** sequence indicates intron

Uppercase **BLACK** sequence indicates exon coding sequence

**]]** indicates the site of engineering

**(T>G)** indicates the L858R 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](mailto:technical@horizondx.com) if you have any questions.

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