

FLT3 (D835Y/+) Cell line Engineering Summary

Genotype	rs #	Cosmic ID	Position			
			Chromosome Number	Chromosome	Gene	Transcript
FLT3 (D835Y/+)	rs121913488	COSM783	13q12	g.28592642C>A (GRCh37) g.28018505C>A (GRCh38)	g.87064G>T	c.2503G>T

Protein	Base change	Context	AA change
p.Asp835Tyr	GAT ⇒ TAT	GGATTGGCTCGA (G>T) ATATCATGAGTGA	D [Asp] ⇒ Y [Tyr]

Reference sequence: Ensembl transcript: FLT3-001 ENST00000241453

Ccctctgaaggctcaggggagggccctggtggggagcctctcacttttgctcggaatctgcaaagatctgctc
ctctttggcctctggggatgcttcagaagccgcacaaagaactgcagccaccatagctgcagaattaggtctcct
atattcactttgtttggtgcacatcatcatggccgctcacggcacagccagtaaagataagaggccttccatca
ccggtacctcactgaagttgagtctagaagaaagattgcactccaggataatacacatcacagtaaataaac
tctgggtgcatcttgacagTGTGTTACAGAGACCTGGCCGCCAGGAACGTGCTTGTACCCACGGGAAAGTGG
TGAAGATATGTGACTTTGGATTGGCTCGA (**G>T**) ATATCATGAGTGATTCCAACATATGTTGTCAGGGCAATg
tgaggctgctatcttacttatttttatacggctattttgtgttgctgcttatcatggtaaaactgcactc
actgtggtgcatttttgattatggtaacatca] [aaaaaccctcacagcagctctgcttacttatgcttaaagg
ttttctgcagcttcagggaaatcttccatctataataaaagctgagcaaatagcatcacatctgtccttgggct
agctagtcagagtagatcagttaggggcctttgagtgcaatcctcactttaaaaaacccaaatctcaatacttg
cacttagttcagttatcctagctataaaagtgatgattgagttatgtttcaattatgtgaa

Lowercase **blue** sequence indicates intron

Uppercase **BLACK** sequence indicates exon coding sequence

]] indicates the site of engineering

(G>T) indicates the D835Y 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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