

## BRAF (V600E/+) Cell line Engineering Summary

Genotype	rs #	Cosmic ID	Position			
			Chromosome Number	Chromosome	Gene	Transcript
BRAF (V600E/+)	rs113488022	COSM476	7q34	g.140453136A>T (GRCh37) g.140753336A>T (GRCh38)	g.176429T>A	c.1799T>A

Protein	Base change	Context	AA change
p.Val600Glu	GTG ⇒ GAG	CTAGCTACAG ( <b>T&gt;A</b> ) GAAATCTCGA	V [Val] ⇒ E [Glu]

Reference sequence: Ensembl transcript: BRAF-001 ENST00000288602

ctgggctacattgctaaaatctaattgggaaagtttttaggttctcctataaaacttaggaaagcatctcacctcat  
cctaacacatttcaagccccaaaaatcttaaaagcaggttatataggctaaatagaactaatcattgtttttagac  
atacttattgactctaagaggaagatgaagtactatgttttaagaatattatattacagaattatagaaatta  
gatctcttacctaaactcttcataatgcttgctctgataggaaaatgagatctactgttttcctttacttactac  
acctcagATATATTTCTTCATGAAGACCTCACAGTAAAAATAGGTGATTTTGGTCTAGCTACAG (**T>A**) GAAA  
TCTCGATGGAGTGGGTCCCATCAGTTTGAACAGTTGTCTGGATCCATTTTGTGGATGgtaagaattgaggctatt  
ttccactgattaaatTTTTGGCCCTGAGATGCTGCTGAGTTactagaaagtcattgaaggtctcaactatagta  
ttttcat] [agttcccagattcacaaaaatcagtgcttcttattttttatgtaaatagattttttaacttttttc  
ttacccttaaacgaatattttgaaaccagtttcagtgattttcaacaaaaatataatgtcttataaacagtg  
ttcatattttattcttaaataaatatgaacccttaaacgaatattttgaaccagt

Lowercase **blue** sequence indicates intron

Uppercase **BLACK** sequence indicates exon coding sequence

**[[** indicates the site of engineering

**(T>A)** indicates the V600E 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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