

EGFR Multiplex cfDNA Reference Standard Set

Overview

The EGFR Multiplex cfDNA Reference Standard Set covers ten EGFR variants in exon 12, 18, 19, 20 and 21, that are implicated in the responsiveness to EGFR-tyrosine kinase inhibitors (EGFR-TKIs) and anti-EGFR monoclonal antibodies. This cfDNA Reference Standard has been developed for PCR-based tests, NGS and other novel assays.

In this Reference Standard set, we provide variant allelic frequencies of:

- 5%
- 1%
- 0.1%
- 0% (EGFR Multiplex wild type)

The variants include clinically relevant SNPs (including T790M and C797S resistance mutations), insertions and deletions in EGFR and can be used to optimize, validate and routinely monitor assay performance.

Features

Key Benefits

- Cell line-derived controls for the closest representation of your patient sample
- ddPCR validation for 10 variants with defined allelic frequencies
- Contains 5%, 1%, 0.1% and 0% (EGFR Multiplex wild type) allelic frequencies
- Fragment size of 160 base pairs (bp)

Applications

- Analyze the sensitivity and specificity of your assay
- Gain certainty of the limit of detection and limit of quantification
- Optimize and validate new EGFR-specific assays and routinely monitor their performance

Genes and Variants

- 1 key cancer gene
- 10 variants
- 8 SNPs (SNVs), 2 INDELS

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Verified Mutations

Chromosome	Location	Gene	Amino Acid Change	COSMIC ID	CDS Mutation
7p12	55259515	EGFR	p.L858R	COSM6224	c.2573T>G
7p12	55242466-55242480	EGFR	p.E746_A750delELREA	COSM6225	c.2236_2250del15
7p12	55249071	EGFR	p.T790M	COSM6240	c.2369C>T
7p12	55249009-55249010	EGFR	p.V769_D770insASV	COSM12376	c.2307_2308ins GCCAGCGTG
7p12	55259524	EGFR	p.L861Q	COSM6213	c.2582T>A
7p12	55241707	EGFR	p.G719S	COSM6252	c.2155G>A
7p12	55249091	EGFR	p.C797S	COSM6493937	c.2389T>A
7p12	55227924	EGFR	p.S464L	N/A	c.1391C>T
7p12	55227926	EGFR	p.G465R	COSM6110417	c.1393G>A
7p12	55249005	EGFR	p.S768I	COSM6241	c.2303G>T

Presence Confirmed in Parental Cell Line

Chromosome	Location	Gene	Amino Acid Change	COSMIC ID	CDS Mutation
7p12	55249063	EGFR	p.Q787Q	COSM1451600	c.2361G>A

Product Specification

Catalog Number	HD825
Format	cfDNA
Quantity	350ng
Concentration	20ng/μl
Quality Certificate	ISO 9001

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