

# EGFR Multiplex cfDNA Reference Standard Set

The EGFR Multiplex cfDNA Reference Standard Set covers ten EGFR variants 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.

## Features

- 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 wildtype) allelic frequencies
- Fragment size of 160 base pairs (bp)

## Applications

- Analyze the sensitivity and specificity of your assay
- Gain certainty of your assay's Limit of Detection (LOD) 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
- 8SNPs (SNVs), 2 INDELS

## Verified Mutations

Gene	Amino Acid Change	Chromosome	Genomic Position	Reference	Alternative	Variant Type	COSMIC ID	Expected AF (%)
EGFR	S464L	7	55227924	C	T	SNP	N/A	0.0; 0.1; 1.0; 5.0
EGFR	G465R	7	55227926	G	A	SNP	COSM6110417	0.0; 0.1; 1.0; 5.0
EGFR	G719S	7	55241707	G	A	SNP	COSM6252	0.0; 0.1; 1.0; 5.0
EGFR	E746_A750delELREA	7	55242464	-	A	DEL	COSM6223	0.0; 0.1; 1.0; 5.0
EGFR	S768I	7	55249005	G	T	SNP	COSM6241	0.0; 0.1; 1.0; 5.0
EGFR	V769_D770insASV	7	55249009	G	-	INS	COSM12376	0.0; 0.1; 1.0; 5.0
EGFR	T790M	7	55249071	C	T	SNP	COSM6240	0.0; 0.1; 1.0; 5.0
EGFR	C797S	7	55249091	T	A	SNP	COSM6493937	0.0; 0.1; 1.0; 5.0
EGFR	L858R	7	55259515	T	G	SNP	COSM6224	0.0; 0.1; 1.0; 5.0
EGFR	L861Q	7	55259524	T	A	SNP	COSM6213	0.0; 0.1; 1.0; 5.0

## Presence Confirmed in Parental Cell Line

Gene	Amino Acid Change	Chromosome	Genomic Position	Reference	Alternative	Variant Type	COSMIC ID	Expected AF (%)
EGFR	Q787Q	7	55249063	G	A	SNP	COSM1451600	15
EGFR	L844L	7	-	-	-	-	-	-

## Product Specification

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

### If you have any questions, contact

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