

Product datasheet for RC400289

EGFR (NM 005228) Human Mutant ORF Clone

Product data:

Product Type: Mutant ORF Clones

Product Name: EGFR (NM_005228) Human Mutant ORF Clone

Mutation Description: T790M

Affected Codon#: 790

Affected NT#: c.2369

Nucleotide Mutation: EGFR Mutant (T790M), Myc-DDK-tagged ORF clone of Homo sapiens epidermal growth factor

receptor (EGFR), transcript variant 1 as transfection-ready DNA

Effect: Missense

Symbol: EGFR

Synonyms: ERBB; ERBB1; ERRP; HER1; mENA; NISBD2; PIG61

E. coli Selection: Kanamycin (25 ug/mL)

Mammalian Cell Neomycin

Selection:

Restriction Sites:

Vector: pCMV6-Entry (PS100001)

Sgfl-Mlul

Tag: Myc-DDK
ACCN: NM 005228

ACCIV. 14101_0032.

ORF Size: 3630 bp

Restriction Sites: Sgfl-Mlul

OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

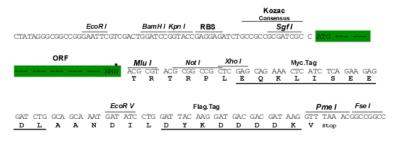
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Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: NP 005219

RefSeq Size: 5616 bp

RefSeq ORF: 3633 bp

Locus ID: 1956



EGFR (NM_005228) Human Mutant ORF Clone - RC400289

Cytogenetics: 7p11.2

Domains: Recep_L_domain, pkinase, TyrKc, S_TKc, Furin-like, FU

Protein Families: Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Protein

Kinase, Secreted Protein, Stem cell relevant signaling - JAK/STAT signaling pathway,

Transmembrane

Protein Pathways: Adherens junction, Bladder cancer, Calcium signaling pathway, Colorectal cancer, Cytokine-

cytokine receptor interaction, Dorso-ventral axis formation, Endocytosis, Endometrial cancer,

Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Focal adhesion, Gap junction, Glioma, GnRH signaling pathway, MAPK signaling pathway, Melanoma, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate

cancer, Regulation of actin cytoskeleton

MW: 134 kDa

Gene Summary: The protein encoded by this gene is a transmembrane glycoprotein that is a member of the

protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor, thus

inducing receptor dimerization and tyrosine autophosphorylation leading to cell proliferation. Mutations in this gene are associated with lung cancer. EGFR is a component of the cytokine storm which contributes to a severe form of Coronavirus Disease 2019 (COVID-19) resulting from infection with severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2). [provided

by RefSeq, Jul 2020]