

Product datasheet for **SC308011**

EGFR (NM_201284) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EGFR (NM_201284) Human Untagged Clone
Tag:	Tag Free
Symbol:	EGFR
Synonyms:	ERBB; ERBB1; ERRP; HER1; mENA; NISBD2; PIG61
Vector:	<u>pCMV6 series</u>



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_201284, the custom clone sequence may differ by one or more nucleotides

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ATGCGACCTCCGGGACGGCCGGGGCAGCGCTCCTGGCGCTGCTGGCTGCGCTCTGCCCC
GCGAGTCGGGCTCTGGAGGAAAAGAAAGTTTGCCAAGGCACGAGTAACAAGCTCACGCAG
TTGGGCACTTTTGAAGATCATTTTCTCAGCCTCCAGAGGATGTTCAATAACTGTGAGGTG
GTCCTTGGGAATTTGAAATTACCTATGTGCAGAGGAATTATGATCTTTCCTTCTTAAAG
ACCATCCAGGAGGTGGCTGGTTATGTCTCATTGCCCTCAACACAGTGGAGCGAATTCCT
TTGGAAAACCTGCAGATCATCAGAGGAAATATGTACTACGAAAATTCCTATGCCTTAGCA
GTCTTATCTAACTATGATGCAAATAAAACCGGACTGAAGGAGCTGCCCATGAGAAATTTA
CAGGAAATCCTGCATGGCGCCGTGCGGTTAGCAACAACCTGCCCTGTGCAACGTGGAG
AGCATCCAGTGGCGGGACATAGTCAGCAGTGACTTTCTCAGCAACATGTCGATGGACTTC
CAGAACCACCTGGGCAGCTGCCAAAAGTGTGATCCAAGCTGTCCAATGGGAGCTGCTGG
GGTGCAGGAGAGGAGAACTGCCAGAACTGACCAAAATCATCTGTGCCACGAGTGTCTCC
GGGCGCTGCCGTGGCAAGTCCCCAGTACTGCTGCCACAACAGTGTGCTGCAGGCTGC
ACAGGCCCCCGGAGAGCGACTGCCTGGTCTGCCGAAAATTCAGAGACGAAGCCACGTGC
AAGGACACCTGCCCCCACTCATGCTCTACAACCCACACGTACCAGATGGATGTGAAC
CCCAGGGCAAATACAGCTTTGGTGCCACCTGCGTGAAGAAGTGTCCCGTAATATGTG
GTGACAGATCACGGCTCGTGCCTCCGAGCCTGTGGGGCCGACAGCTATGAGATGGAGGAA
GACGGCGTCCGCAAGTGAAGAAGTGCAGAGGGCCTTGCCGCAAAGTGTGTAACGGAATA
GGTATTGGTGAATTTAAAGACTCACTCTCCATAAATGCTACGAATATTAACACTTCAA
AACTGCACCTCCATCAGTGGCGATCTCCACATCCTGCCGTGGCATTAGGGGTACTCC
TTCACACATACTCCTCCTCTGGATCCACAGGAACTGGATATTCTGAAAACCGTAAAGGAA
ATCACAGGTTTTTGTGATTGAGGCTTGGCCTGAAAACAGGACGGACCTCCATGCCTTT
GAGAACC TAGAAATCATACGCGGACAGCAAGCAACATGGTCAGTTTTCTCTTGAGTC
GTCAGCCTGAACATAACATCCTTGGGATTACGCTCCCTCAAGGAGATAAGTGATGGAGAT
GTGATAATTTAGGAAACAAAAATTTGTGCTATGCAAATAACAATAAACTGGAAAAAACTG
TTTGGGACCTCCGGTCAGAAAACCAAATATAAGCAACAGAGGTGAAAACAGCTGCAAG
GCCACAGGCCAGGTCTGCCATGCCTTGTGCTCCCCGAGGGCTGCTGGGGCCCGGAGCCC
AGGGACTGCGTCTTGGCCGAATGTCAGCCGAGGCAGGGAATGCGTGGACAAGTGAAC
CTTCTGGAGGGTGAAGCAAGGGAGTTTGTGGAGAACTCTGAGTGCATACAGTGCCACCCA
GAGTGCCTGCCTCAGGCCATGAACATCACCTGCACAGGACGGGGACCAGACAACGTATC
CAGTGTGCCCACTACATTGACGGCCCCCACTGCGTCAAGACCTGCCCGCAGGAGTCATG
GGAGAAAACAACACCCTGGTCTGGAAGTACGCAGACGCCGGCCATGTGTGCCACCTGTGC
CATCAAACCTGCACCTACGGGCCAGGAAATGAGAGTCTCAAAGCCATGTTATTCTGCCTT
TTTAAACTATCATCCTGTAATCAAAGTAATGATGGCAGCGTGTCCCACCAGAGCGGGAGC
CCAGCTGCTCAGGAGTATGCTTAGGATGGATCCCTTCTCTTCTGCCGTGAGGTTTCAG
CTGGGTGGGGTGGATGCAGCCACCTCCATGCCTGGCCTTCTGCATCTGTGATCATCAGC
GCCTCCTCTGCCACTGA
    
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Restriction Sites: Please inquire

ACCN: NM_201284

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_201284.1](#), [NP_958441.1](#)

RefSeq Size: 2865 bp

RefSeq ORF: 2118 bp

Locus ID: 1956

UniProt ID: [P00533](#)

Cytogenetics: 7p11.2

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

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]

Transcript Variant: This variant (4) uses a different 3' terminal exon when compared to variant 1. The resulting isoform (d) has a shorter and distinct C-terminus. Only the extracellular domain is present in isoform d.