

## Product datasheet for **SC308009**

### EGFR (NM\_201282) Human Untagged Clone

#### Product data:

|               |  |
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| Product Type: | Expression Plasmids                          |
| Product Name: | EGFR (NM_201282) Human Untagged Clone        |
| Tag:          | Tag Free                                     |
| Symbol:       | EGFR   |
| Synonyms:     | ERBB; ERBB1; ERRP; HER1; mENA; NISBD2; PIG61 |
| Vector:       | <u>pCMV6 series</u>                          |



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|                             |   |
|-----------------------------|---|
| <b>Fully Sequenced ORF:</b> | <p>&gt;NCBI ORF sequence for NM_201282, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGCGACCCTCCGGGACGGCCGGGGCAGCGCTCCTGGCGCTGCTGGCTGCGCTCTGCCCC GCGAGTCGGGCTCTGGAGGAAAAGAAAGTTTGCCAAGGCACGAGTAACAAGCTCACGCAG TTGGGCACTTTTGAAGATCATTTTCTCAGCCTCCAGAGGATGTTCAATAACTGTGAGGTG GTCCTTGGGAATTTGAAATTACCTATGTGCAGAGGAATTATGATCTTTCCTTTAAAG ACCATCCAGGAGGTGGTTATGTCTCATTGCCCTCAACACAGTGGAGCGAATTCCT TTGGAAAACCTGCAGATCATCAGAGGAAATATGTACTACGAAAATTCCTATGCCTTAGCA GTCTTATCTAACTATGATGCAAATAAAACCGGACTGAAGGAGCTGCCCATGAGAAATTTA CAGGAAATCCTGCATGGCGCCGTGCGGTTAGCAACAACCTGCCCTGTGCAACGTGGAG AGCATCCAGTGGCGGGACATAGTCAGCAGTGACTTTCTCAGCAACATGTCGATGGACTTC CAGAACCACCTGGGCAGCTGCCAAAAGTGTGATCCAAGCTGTCCAATGGGAGCTGCTGG GGTGCAGGAGAGGAGAACTGCCAGAAACTGACAAAATCATCTGTGCCACGAGTGTCTCC GGGCGCTGCCGTGGCAAGTCCCCAGTGACTGCTGCCACAACAGTGTGTGCAGGCTGC ACAGGCCCCCGGAGAGCGACTGCCTGGTCTGCCGAAAATTCGAGACGAAGCCACGTGC AAGGACACCTGCCCCCACTCATGCTCTACAACCCACCACGTACCAGATGGATGTGAAC CCCAGGGCAAATACAGCTTTGGTGCCACCTGCGTGAAGAAGTGTCCCGTAATTATGTG GTGACAGATCACGGCTCGTGCCTCCGAGCCTGTGGGGCCGACAGCTATGAGATGGAGGAA GACGGCGTCCGCAAGTGAAGAAGTGCAGAGGGCCTTGCCGAAAAGTGTGTAACGGAAATA GGTATTGGTGAATTTAAAGACTCACTCTCCATAAATGCTACGAATATTAACACTTCAA AACTGCACCTCCATCAGTGGCGATCTCCACATCCTGCCGGTGGCATTAGGGGTGACTCC TTCACACATACTCCTCCTCTGGATCCACAGGAACTGGATATTCTGAAAACCGTAAAGGAA ATCACAGGGTTTTGCTGATTCAGGCTTGGCCTGAAAACAGGACGGACCTCCATGCCTTT GAGAACC TAGAAATCATACGCGGCAGGACCAAGCAACATGGTCAGTTTTCTCTTGCACTC GTCAGCCTGAACATAACATCCTTGGGATTACGCTCCCTCAAGGAGATAAGTGATGGAGAT GTGATAATTTAGGAAACAAAAATTTGTGCTATGCAAATAACAATAAACTGGAAAAAACTG TTTGGGACCTCCGGTCAGAAAACCAAATATAAGCAACAGAGGTGAAAACAGCTGCAAG GCCACAGGCCAGGTCTGCCATGCCTTGTGCTCCCCGAGGGCTGCTGGGGCCCGGAGCCC AGGGACTGCGTCTTGGCCGAATGTCAGCCGAGGCAGGGAATGCGTGGACAAGTGAAC CTTCTGGAGGGTGAAGCAAGGGAGTTTGTGGAGAACTCTGAGTGCATACAGTGCCACCCA GAGTGCCTGCCTCAGGCCATGAACATCACCTGCACAGGACGGGGACCAGACAACGTATC CAGTGTGCCCACTACATTGACGGCCCCCACTGCGTCAAGACCTGCCCGGAGGAGTCATG GGAGAAAACAACACCCTGGTCTGGAAGTACGCAGACGCCGGCCATGTGTGCCACCTGTGC CATCCAAACTGCACCTACGGGTCCTAA </pre> |
| <b>Restriction Sites:</b>   | Please inquire  |
| <b>ACCN:</b>                | NM_201282   |
| <b>OTI Disclaimer:</b>      | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  |
| <b>OTI Annotation:</b>      | 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.  |
| <b>Components:</b>          | 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).  |

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| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>  |
| <b>RefSeq:</b>                | <a href="#">NM_201282.1</a> , <a href="#">NP_958439.1</a>  |
| <b>RefSeq Size:</b>           | 2239 bp  |
| <b>RefSeq ORF:</b>            | 1887 bp  |
| <b>Locus ID:</b>              | 1956   |
| <b>UniProt ID:</b>            | <a href="#">P00533</a>   |
| <b>Cytogenetics:</b>          | 7p11.2   |
| <b>Protein Families:</b>      | 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   |
| <b>Protein Pathways:</b>      | 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   |
| <b>Gene Summary:</b>          | <p>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]</p> <p>Transcript Variant: This variant (2) uses a different 3' terminal exon when compared to variant 1. The resulting isoform (b) has a shorter and distinct C-terminus. Only the extracellular domain is present in isoform b.</p> |