

## Product datasheet for RC214877

### EGFR (NM\_201283) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EGFR (NM_201283) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EGFR
Synonyms:	ERBB; ERBB1; HER1; mENA; NISBD2; PIG61
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC214877 representing NM_201283 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCGACCCTCCGGGACGGCCGGGCAGCGCTCCTGGCGCTGCTGGCTGCGCTCTGCCCGCGAGTCGGG  
CTCTGGAGGAAAAGAAAGTTTGCCAAGGCACGAGTAACAAGCTCACGCAGTTGGGCACTTTGAAGATCA  
TTTTCTCAGCCTCCAGAGGATGTTCAATAACTGTGAGGTGGTCCCTGGGAATTTGAAATTACCTATGTG  
CAGAGGAATTATGATCTTTCCTTCTAAAGACCATCCAGGAGGTGGCTGGTTATGTCTCATTGCCCTCA  
ACACAGTGGAGCGAATTCCTTTGGAAAACCTGCAGATCATCAGAGGAAATATGACTACGAAAATTCCTA  
TGCTTAGCAGTCTTATCTAACTATGATGCAAATAAAACCGGACTGAAGGAGCTGCCCATGAGAAATTTA  
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CCAAAAGTGTGATCCAAGCTGTCCCAATGGGAGCTGTGGGGTGCAGGAGAGGAGAACTGCCAGAAACTG  
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ACCAGTGTGCTGCAGGCTGCACAGGCCCCCGGAGAGCGACTGCCTGGTCTGCCGCAAATCCGAGACGA  
AGCCACGTGCAAGGACACCTGCCCCCACTCATGCTCTACAACCCACCACGTACCAAGATGGATGTGAAC  
CCCAGGGCAAATACAGCTTTGGTGCCACCTGCGTGAAGAAGTGTCCCCGTAATTATGTGGTGACAGATC  
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GAAGTGCAGAGGGCCTTGCCGCAAAGTGTGTAACGGAATAGGTATTGGTGAATTTAAAGACTCACTCTCC  
ATAAATGTACGAATATTAACACTTCAAAAACCTGCACCTCCATCAGTGGCGATCTCCACATCTGCCGG  
TGGCATTTAGGGGTGACTCCTTACACATACTCCTCTGGATCCACAGGAACTGGATATTCTGAAAAC  
CGTAAAGGAAATCACAGGTTTGAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC214877 representing NM\_201283  
 Red=Cloning site Green=Tags(s)

MRPSGTAGAALLALLAALCPASRALEEKVKVCGTSSNKLQLGTFEDHFLSLQRMFNCEVVLGNLEITYV  
 QRNYDLSFLKTIQEVAGYVLIALNTVERIPLNLQIIRGNMYYENSYALAVLSNYDANKTGLKELPMRNL  
 QEILHGAVRFSNNPALCNVESIQWRDIVSSDFLSNMSMDFQNHGSCQKCDPSCPNGSCWGAGEENCQKL  
 TKIICAQQCSGRCRGKSPSDCCHNQCAAGCTGPRESDDLVCVKFRDEATCKDTCPLMLYNPTTYQMDVN  
 PEGKYSFGATCVKCKPRNYVVDHGSVCVRACGADSYEMEEDGVRKCKKCEGPCRKVCNGIGIGEFKDSLS  
 INATNIKHFKNCTISIGDLHILPVAFRGDSFHTHTPPLDPQLDILKTKVEITGLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

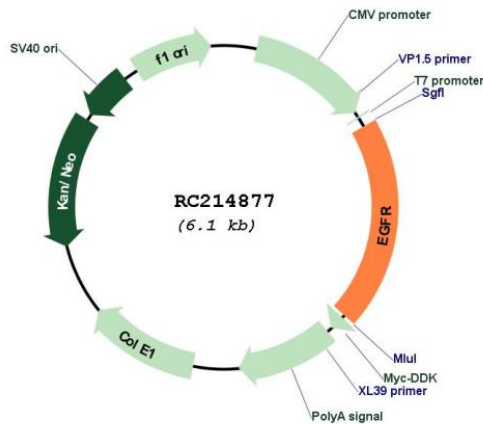
Chromatograms: [https://cdn.origene.com/chromatograms/mk6506\\_h08.zip](https://cdn.origene.com/chromatograms/mk6506_h08.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_201283

ORF Size: 1215 bp

**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](mailto: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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**RefSeq:** [NM\\_201283.1](#), [NP\\_958440.1](#)

**RefSeq Size:** 1595 bp

**RefSeq ORF:** 1218 bp

**Locus ID:** 1956

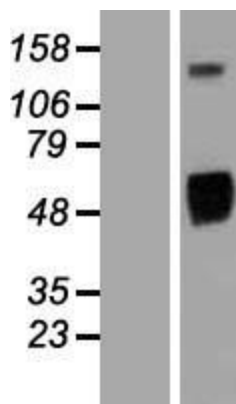
**Protein Families:** Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Secreted Protein, Stem cell relevant signaling - JAK/STAT signaling pathway, Transmembrane

**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

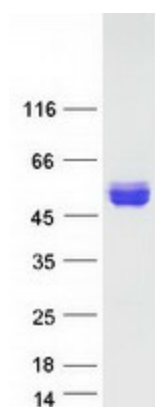
**MW:** 42.4 kDa

**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. Binding of the protein to a ligand induces receptor dimerization and tyrosine autophosphorylation and leads to cell proliferation. Mutations in this gene are associated with lung cancer. [provided by RefSeq, Jun 2016]

## Product images:



Western blot validation of overexpression lysate (Cat# [LY404515]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214877 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EGFR protein (Cat# [TP314877]). The protein was produced from HEK293T cells transfected with EGFR cDNA clone (Cat# RC214877) using MegaTran 2.0 (Cat# [TT210002]).