

Product datasheet for **RG214877**

EGFR (NM_201283) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EGFR (NM_201283) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EGFR
Synonyms:	ERBB; ERBB1; ERRP; HER1; mENA; NISBD2; PIG61
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214877 representing NM_201283 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGACCCTCCGGGACGGCCGGGGCAGCGCTCCTGGCGTCTGGCTGCGCTCTGCCCGCGAGTCGGG
CTCTGGAGGAAAAGAAAGTTTGCCAAGGCACGAGTAACAAGCTCACGCAGTTGGGCATTTTGAAGATCA
TTTTCTCAGCCTCCAGAGGATGTTCAATAACTGTGAGGTGGTCTTGGGAATTTGGAAATACCTATGTG
CAGAGGAATTATGATCTTCTTCTTAAGACCATCCAGGAGGTGGCTGTTATGTCTCATTGCCCTCA
ACACAGTGGAGCGAATTCCTTTGAAAACCTGCAGATCATCAGAGGAAATATGTACTACGAAAATTCCTA
TGCTTAGCAGTCTTATCTAACTATGATGCAAATAAAACCGGACTGAAGGAGCTGCCATGAGAAATTTA
CAGGAAATCCTGCATGGCGCCGTGCGGTTACAGCAACAACCTGCCCTGTGCAACGTGGAGAGCATCCAGT
GGCGGGACATAGTCAGCAGTGACTTTCTCAGCAACATGTCGATGGACTTCCAGAACCACCTGGGCAGCTG
CCAAAAGTGTGATCCAAGCTGTCCCAATGGGAGCTGCTGGGGTGCAGGAGAGGAGAAGTCCAGAAAAGT
ACCAAAATCATCTGTGCCAGCAGTGTCCGGGCGCTGCCGTGGCAAGTCCCCAGTGACTGTGCCACA
ACCAGTGTGCTGCAGGCTGCACAGGCCCGGGAGAGCGACTGCCTGGTCTGCCGCAATTCGAGACGA
AGCCACGTGCAAGGACACCTGCCCCCACTCATGCTCTACAACCCACCACGTACCAGATGGATGTGAAC
CCCGAGGGCAAATACAGCTTTGGTGCCACCTGCGTGAAGAAGTGTCCCGTAATTTGTTGGTGACAGATC
ACGGCTCGTCCGAGCCTGTGGGGCCGACAGCTATGAGATGGAGGAAGACGGCGTCCGCAAGTGTA
GAAGTGCAGAGGCCCTTGCCGAAAGTGTGTAACGGAATAGGTATTGGTGAATTTAAAGACTCACTCTCC
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TGGCATTAGGGGTGACTCCTTACACATACTCCTCTGGATCCACAGGAACTGGATATTCTGAAAAC
CGTAAAGGAAATCACAGGTTTGAGC

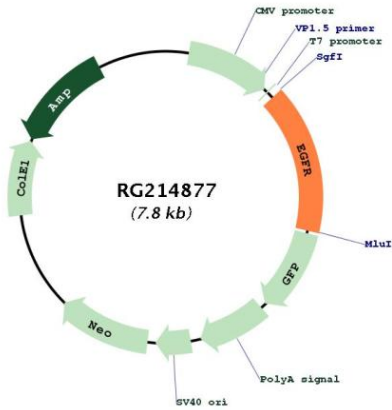
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Reconstitution Method:	<ol style="list-style-type: none">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_201283.2
RefSeq Size:	1595 bp
RefSeq ORF:	1218 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]

Product images:



Circular map for RG214877