

## Product datasheet for RN201131

### Egf (NM\_012842) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Egf (NM_012842) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Egf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN201131 representing NM_012842 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGTTCTCGCTCACCTTCTGTGCGGTGTTTTAAAGATTACTGTACTCAGTGTACAGCACAGCAGA  
CCAGGAAGTGTGAGTCAAGTCCCTCTCGAGAGAAGCGGGACTACCACGTATGCCGCCGCCGGTCTCCAG  
GTTCTGATTTTCTTACAAGGAAACAGCATCTTTCGGATTAACACAGATGGAACAAATCACCAGCAATTG  
GTGGTGGATGCCGGCGTCTCAGTGGTCATGGATTTTCATTACAAGGAAGAGAGACTCTATTGGGTGGATT  
TAGAAAGACAACTTTTGCAAAGAGTTTTCTTAAATGGGTCAGGACAAGAGACAGTGTGCAAGTGGATAA  
GAATGTGTCTGGGCTGGCCATAAACTGGATAGATGGGGAGATTCTCCGGACGGACCGATGGAAGGGAGTC  
ATCACAGTAACAGATATGAACGGGAACAATCCCGTGTTCTTCTGAGTTCCTTAAACGTCTGCAATA  
TATTAGTGGATCCAACAGAGAGTTGATTTTTGGTCTTCAGTGGTACTGGCAACCTTCACAGAGCAGA  
TCTCGGGGTATGGATGTAAAAACTGCTGGAGGCACCAGAGAGGATATCAGTGTGATTCTGGATATC  
CTGGACAAAAGGCTCTTCTGGGCTCAGGACGGTAGAGAAGGAAGCCACGGTTACATTCACCTGTGACT  
ATAACGGTGGCTCCATCCATCATATCAGACATCAAGCACGGCACGATTTGCTTACTATGGCCATTTTCGG  
TGACAAGATCTTATACTCAGCACTGAAAGAGAAGGCGATTTGGATAGCCGACAAACACACTGGGAAGAT  
GTGGTTCGAGTTAACCTCGATCCAGCCTCTGTGCCCAAGAGAACTGAGAGTCGTGCACCTACATGCAC  
AGCCCCGGACAGAGAACCGTGTCTAGGCCCTCTGACTCCGAACGATGCAAACAGAGAAGAGGACAGTGTCT  
CTACAGTCTCTCTGAGCGAGACCCAACTCAGACTCGTCCGCATGCGCTGAAGGCTATACGTTAAGCCGA  
GACCGGAAGTACTGCGAAGATGTCAATGAGTGTGCCTTGCAAGTACAGGCTGTACTCTTGGGTGTGAAA  
ACATCCCTGGATCCTATTACTGCACATGCCCTACAGGCTTTGTTCTGCTTCTGATGGGAAACGATGTCA  
CGAACTTGTGCTGTCCAGGCAACAGATCAGAGTGTAGCCATGATTGCATCCTGACATCAGATGGTCTCT  
CTGTGCATCTGTCCAGCAGGTTCAAGTGTCTCGGAAAAGATGGGAAGACATGCATGCTGTTGTTCTCTCCG  
ATAATGGTGGATGCAGCCAGATCTGCCTTCTCAGCTAGCATCCTGGGAATGTGATTGCTTTCTCTGG  
GTACGACCTACAATTGGACCGAAAAGAGCTGTGCAGCTTCCATGGGACCGCAGCCATTTTACTGTTTGA  
AATTCACAGACATACGACACATGCAATTTTGTGGAACAGACTACAAAACCTCTGCTCAGCCGGCAGATGG  
GAATGGTTTTGCTTGGATTATGACCCCGTGGAAAGCAAGATATATTTGCACAGACAGCCCTGAAGTG



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GATAGAGAGGGCTAATCTGGATGGCTCCCAGCGAGAAAGACGGATCACGGAAGGAGTAGACACGCCAGAA  
 GGTCTTGCCGTGGACTGGATTGGCCGGAGAATCTACTGGACGGACAGTGGGAAGTCTGTCAATTGAAGGGA  
 GTGATTTGAGCGGGAAGCATCATCAAAATAATCATCAAAGAGAGCATCTCAAGGCCACGAGGAATAGCTGT  
 GCATCCAAAGGCCAGGAGACTATTCTGGACGGACACGGGGATGTCTCCGCGGATTGAAAGCTTCCCTT  
 CAAGGTTCTGACCGGACGCTGATAGCCAGCTCTAATCTACTGGAACCCAGTGGAAATCGCGATTGACTACT  
 TAACAGACACTTTGTACTGGTGTGACACCAAGCTGTCTGTGATTGAAATGGCCGATCTAGATGGTTCCAA  
 ACGCCCGAGACTTACCCAGAACGATGTAGTACCCATTCTCTAGCTGTGTTTGAGGATCACGTGTGG  
 TTCTCGGATTGGGCTATCCCATCGGTAATAAGGGTGAACAAGAGGACTGGTCAAAAACAGGGTACGTCTCC  
 GAGGCAGCATGCTGAAGCCCTCGTCACTGGTTGTGGTCCACCCATTGGCAAAAACAGGTGCAGACCCCTG  
 CTTACACAGGAATGGAGGCTGTGAACACATCTGCCAAGAGAGCCTGGGCACGGCTCAGTGTCTGTGTGCG  
 GAAGGATTCGTGAAGGCCCCAGATGGGAAAATGTGTCTCACTCGGAAGGATGATCAGATACTGGCCGGT  
 ACAATGCTGATCTTAGTAAAGAGGTGGCATCGTTGGACAACCTCCCTAAGGCTTATGTACCAGACGATGA  
 TAGGACAGAGTCTCCACTAGTGGCTGAGATCATGGTGTGAGGGTGAACATGAAGATGACTGCGGC  
 CCTGGTGGGTGTGGCAGCATGCCACTGTATTCAGAGGGAGAGGCAGCTGTGTGTGAGTGTGTTGAAAG  
 GATTTGCTGGCGATGAAACCTGTGTTCTGATATAGACGAATGTGAGCTGGTAGCTCAGACTGTCTCC  
 CACCTCGTCCAGGTGCATCAACACCCGAAGGTGGCTATGTCTGCCAATGCTCAGAAGGCTACGAGGGAGAT  
 GGGATCTACTGTCTCGAGTTGATGAGTGCCAGCAGGGGTGCGACGGCTGCAGCGAGAATGCCACCTGCA  
 CCAACACGGAGGGAGGCTACAACCTGCACCTGTGCAGGCTGCCATCAGCACCTGGACTGCCTTGCCCTGA  
 CTCTACCTCACCTCTCTCTTTGGAAAAGATGGCTGCCACTGGGTCCGAAAACAGTAAACACAGGATGCCCC  
 CCGTCGTACGATGGGTACTGCCTCAATGGTGGCGTGTGCATGTATGTTGAATCCGTGGACCGCTACGTGT  
 GCAACTGTGTCAATGGCTATATTGGAGAACGATGTGAGCAGGACTTACGTTGGTGGAAAGCTGCGCCA  
 TGCTGACTACGGGCAGAGGCACGACATCACTGTGGTGTCTGTCTGTGTGGTGGCGCTGCCCTGCTGCTC  
 CTCTTAGGGATGTGGGGACTTACTACTACAGGACTCGGAAGCAGCTATCAGAGAGCTCAAAGAAGCCTT  
 CCGAAGAGTCAAGCAGCAACGTGAGCAGTAACGGGCTGACAGCAGCGGGGCTGGGGTGTCTTCTGGTCC  
 CCAACCTTGGTTTGGTCTAGAGGAACCAACAGCCCAAGAATGGGCGTCTGCCTGCCGCTGGCAGC  
 AACGGCGCAGTAGTAGAGGCTGGCTGTCTTCCCTCTGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2028\\_a11.zip](https://cdn.origene.com/chromatograms/ja2028_a11.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_012842

**Insert Size:** 3402 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](#)

<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).
<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>	<u><a href="#">NM_012842.1</a></u> , <u><a href="#">NP_036974.1</a></u>
<b>RefSeq Size:</b>	4801 bp
<b>RefSeq ORF:</b>	3402 bp
<b>Locus ID:</b>	25313
<b>UniProt ID:</b>	<u><a href="#">P07522</a></u>
<b>Cytogenetics:</b>	2q21
<b>Gene Summary:</b>	binds the epidermal growth factor receptor; may play a role in MAP kinase mediated signaling pathways [RGD, Feb 2006]