

Product datasheet for **RR201131**

Egf (NM_012842) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Egf (NM_012842) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Egf
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RR201131 representing NM_012842
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGTTCTCGCTCACCTTCTGTGGTGTAAAAAGATTACTGTACTCAGTGTACAGCACAGCAGA
 CCAGGAAGTGTGAGTCAAGTCTCTCGAGAGAAGCGGGACTACCACGTATGCCGCCGCCGGTCTCCAG
 GTTCTGATTTTCTTACAAGGAAACAGCATCTTTCGGATTAACACAGATGGAACAAATCACCAGCAATTG
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GATAGAGAGGGCTAATCTGGATGGCTCCCAGCGAGAAAGACGGATCACGGAAGGAGTAGACACGCCAGAA
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Protein Sequence:

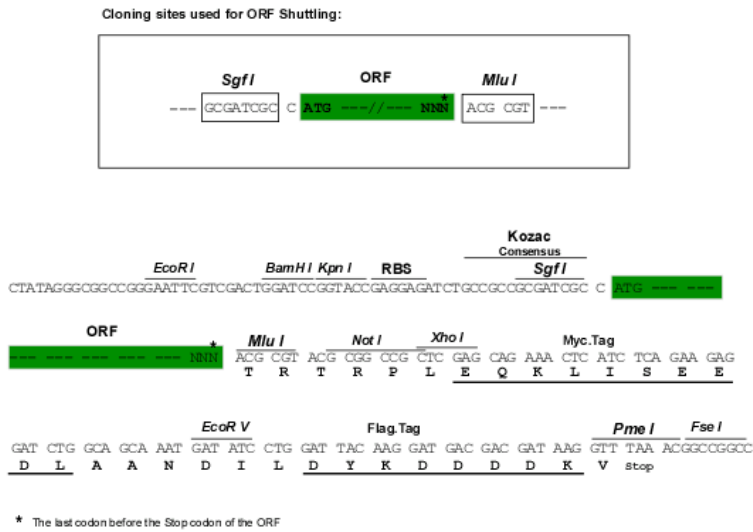
>RR201131 representing NM_012842
 Red=Cloning site Green=Tags(s)

MLFSLTFLSVFLKITVLSVTAQQTRNCQSGPLERSGTTTTYAAAGPPRFLIFLQGNISIFRINTDGTNHQQL
 VVDAGVSVVMDHFHYKEERLYWVDLERQLLRVFFNGSQQETVCKVDKNVSLAINWIDGEILRTDRWKGV
 ITVDTMNGNNSRVLLSSLKRPANILVDPTEFLIFWSSVVTGNLHRADLGGMDVKTLLEAPERISVLIILDI
 LDKRLFWAQDREGSHGYIHSYDYNNGSIHHIRHQARHDLTMAIFGDKILYSALKEKAIWIADKHTGKN
 VVRVNLDPASVPPRELRVVHLHAQPGENRAQASDSERCKQRRGQCLYSLSERDPNSDSSACAEGYTLR
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 SLQGSRTLIASSNLLLEPSGIAIDYLDLTYWCDTKLSVIEMADLDGSKRRRLTQNDVGHPPFSLAVFED
 HWFSDWAIPSVIRVNKRTGQNRVRLRGSMLKPSLVVHPLAKPGADPCLHRNGGCEHCQESLGTACL
 CR EGFVKAPDGMCLTRKDDQILAGDNADLSKEVASLDNSPKAYVPDDDRTESSTLVAEIMVSLNYEDD
 CGPGCGSHAHCISEGEAAVCQCLKGFAGDNLCSIDIECELGSSDCPPTSSRCINTEGGYVCQSEGYEGD
 GIYCLDVECCQGSHGSENATCTNTEGYNCTCAGCPSAPGLPCPDSTSPSLLGKDGCHWRNSNTGCP
 PSYDGYCLNGGVCYVESVDRYVNCVIGYIGERCQHRDLRWWKLRHADYQQRHDIIVVSVCVVALALL
 LLGMWGTYYYRTRKQLSESSKPPSEESSNVSSNGPDSSGAGVSSGPQPFVLEEHPKNGRLPAAGT
 NGAVVEAGLSSSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012842

ORF Size: 3399 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 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.

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_012842.1](#), [NP_036974.1](#)

RefSeq Size: 4801 bp

RefSeq ORF: 3402 bp

Locus ID: 25313

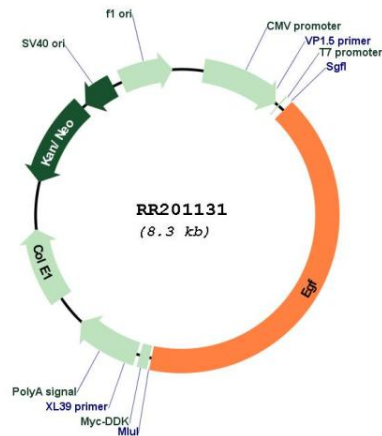
UniProt ID: [P07522](#)

Cytogenetics: 2q21

MW: 124.1 kDa

Gene Summary: binds the epidermal growth factor receptor; may play a role in MAP kinase mediated signaling pathways [RGD, Feb 2006]

Product images:



Circular map for RR201131