

Product datasheet for **MG211815**

Egf (NM_010113) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Egf (NM_010113) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Egf
Synonyms:	A1790464
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211815 representing NM_010113 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTGGGGCCGAAGGCCAACCTGGCTGTTGCTCGCCTTCCTGCTGGTGTTCCTTAAAGATTAGCATACTCAGCGTCACAGCATGGCAGACCCGGAACTGTCAGCCAGGTCCTCTCGAGAGAAGCGAGAGAAGCGGGACTGTGCGCGGTCTGCCCTTCTAGTTTTCTCACAAGGAAAGAGCATCTCTCGGATTGACCCAGATGGAACAATCACCAGCAATTGGTGGTGGATGCTGGCATCTCAGCAGACATGGATATTCATTAAAAAAGAGAGACTCTATTGGGTGGATGTAGAAAGACAAGTTTTGCTAAGAGTTTTCTTAACGGGACAGGACTAGAGAAAGTGTGCAATGTAGAGAGGAAGGTGTCTGGGCTGGCCATAGACTGGATAGATGATGAAGTTCTCTGGGTAACCAACAGAACGGAGTCATCACCGTAACAGATATGACAGGGAAAAATCCCGAGTTCTTCTAAGTTCTTAAACATCCGTCAAATATAGCAGTGGATCCAATAGAGAGGTTGATGTTTTGGTCTTCAGAGGTGACCGGCAGCCTTCACAGAGCACACCTCAAAGGTGTTGATGTAAAAACTGCTGGAGACAGGGGGAATATCGGTGCTGACTCTGGATGTCCTGGACAAACGGCTCTTCTGGGTTCCAGGACAGTGGCGAAGGAAGCCACGCTTACATTCATTCCTGTGATTATGAGGGTGGTCCGTCCGTCTTATCAGGCATCAAGCACGGCACAGTTTGTCTTCAATGGCCTTTTTTGGTGATCGGATCTTCTACTCAGTGTGAAAAGCAAGGCGATTTGGATAGCCAACAAACACACGGGAAGGACACGGTCAGGATTAACCTCCATCCCTTTGTGACACCTGGAAAAGTGGATGGTGTAGTACACCCTCGTGACAGCCAGGACAGAGGACGCTGCTAAGGATCCTGACCCCGAACTTCTCAAACAGAGGGGAAGACCATGCCGCTTCGGTCTCTGTGAGCGAGACCCCAAGTCCCACTCGAGCGCATGCGCTGAGGGCTACACGTTAAGCCGAGACCGGAAGTACTGCGAAGATGTCAATGAATGTGCCACTCAGAATCACGGCTGTACTCTTGGGTGTGAAAACACCCCTGGATCCTATCACTGCACATGCCCCACAGGATTTGTTCTGCTTCTGATGGGAAACAATGTCACGAACTTGTTCCTGCCAGGCAACGTATCAAAGTGCAGTCATGGCTGTGCTCTGACATCAGATGGTCCCCGGTGCATCTGCTCCTGCAGGTTCAAGTGTGGGAGAGATGGGAAGACTTGCAGTGTTGTTTCATCGCCTGACAATGGTGGATGCAGCCAGATCTGTCTTCTCTCAGGCCAGGATCCTGGGAATGTGATTGCTTCTGGGTATGACCTACAGTCAGACCGAAAGAGCTGTGCAGCTTCAGGACCACAGCCACT



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TTACTGTTTGCAAATCCCAGGACATCCGACACATGCATTTTGTGGAACAGACTACAAAGTTCTGCTCA
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AAGCTGCATTCTCTCCAGTCAGCTAATGGATCGTGTACGAAAGGGCTCCAGACCTGCCACGGCAGACAG
AGCCAGTTTCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211815 representing NM_010113
 Red=Cloning site Green=Tags(s)

MPWGRPTWLLLAFLLVFLKISILSVTAWQTGNCQPGPLERSERSGTCAGPAPFLVFSQGKISRIDPDG
 TNHQQLVVDAGISADMDIHYKKERLYWVDVERQVLLRVFLNGTGLEKVCNVERKVSGLAIDWIDDEVLWV
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 YTL SRDRKYCEDVNECATQNHGCTLGCENTPGSYHCTCPTGFVLLPDGKQCHELVSCPGNVSKCSHGCVL
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 GCPSSYDGYCLNGGVCMHIESLDSYTCNCVIGYSGDRCQTRDLRWWELRHAGYGGKHDIMVVAVCMVALV
 LLLLLGMWGTYYYRTRKQLSNPPKNPCDEPSGVSSSGPDSSSGAAVASCQPWFVVEKHKQDPKNGSLP
 ADGTNGAVVDAGLSPSLQLGSVHLTSWRQKPHIDGMGTGQSCWIPSSDRGPQIEGNSHLPYSYRVPVGE
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TRTRPLE - GFP Tag - V

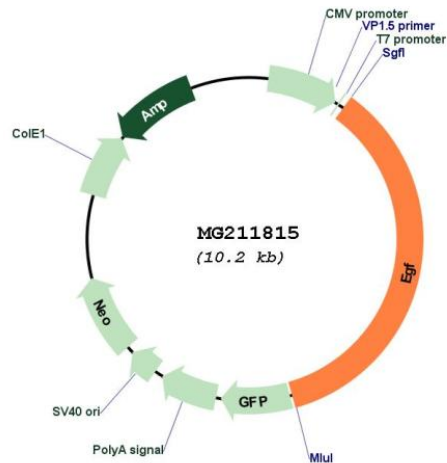
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010113

ORF Size: 3651 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_010113.1](#), [NP_034243.1](#)

RefSeq Size: 4749 bp

RefSeq ORF: 3654 bp

Locus ID: 13645

UniProt ID: [P01132](#)

Cytogenetics: 3 58.5 cM

Gene Summary: This gene encodes epidermal growth factor (EGF), the founding member of the EGF family of growth factors that are implicated in cell proliferation and differentiation. The encoded protein can localize to the membrane and function in juxtacrine signaling or undergo proteolytic processing to generate a soluble form of the hormone. Mice lacking the encoded protein do not exhibit an abnormal phenotype but transgenic mice overexpressing the encoded protein exhibit hypospermatogenesis. [provided by RefSeq, Jul 2016]