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Product datasheet for MR211815

Egf (NM_010113) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Egf (NM_010113) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Egf
Synonyms:	AI790464
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR211815 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCTGGGGCCGAAGGCCAACCTGGCTGTTGCTCGCCTTCCTGCTGGTGTTTTTAAAGATTAGCATAC
TCAGCGTCACAGCATGGCAGACCGGGAACTGTCAGCCAGGTCCTCTCGAGAGAAGCGAGAGAAGCGGGAC
TTGTGCCGGTCCTGCCCCCTTCCTAGTTTTCTCACAAGGAAAGAGCATCTCTCGGATTGACCCAGATGGA
ACAAATCACCAGCAATTGGTGGTGGATGCTGGCATCTCAGCAGACATGGATATTCATTATAAAAAAGAGA
GACTCTATTGGGTGGATGTAGAAAGACAAGTTTTGCTAAGAGTTTTCCTTAACGGGACAGGACTAGAGAA
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GACCAACAGAACGGAGTCATCACCGTAACAGATATGACAGGGAAAAATTCCCGAGTTCTTCTAAGTTCCT
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TTACTGTTTGCAAATTCCCAGGACATCCGACACATGCATTTTGATGGAACAGACTACAAAGTTCTGCTCA
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Protein Sequence:

>MR211815 protein sequence
Red=Cloning site Green=Tags(s)

MPWGRRPTWLLLAFLLVFLKISILSVTAWQTGNCQPGPLERSERSGTCAGPAPFLVFSQGKSISRIDPDG
TNHQQLVVDAGISADMDIHYKKERLYWVDVERQVLLRVFLNGTGLEKVCNVERKVSGLAIDWIDDEVLWV
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DTLEGLALDWIGRRIYWTDSGKSVVGGSDLSGKHHRIIIQERISRPRGIAVHPRARRLFWTDVGMSPRIE
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LLLLLGMWGTYYYRTRKQLSNPPKNPCDEPSGSVSSSGPDSSSGAAVASCPQPWFVVLEKHQDPKNGSLP
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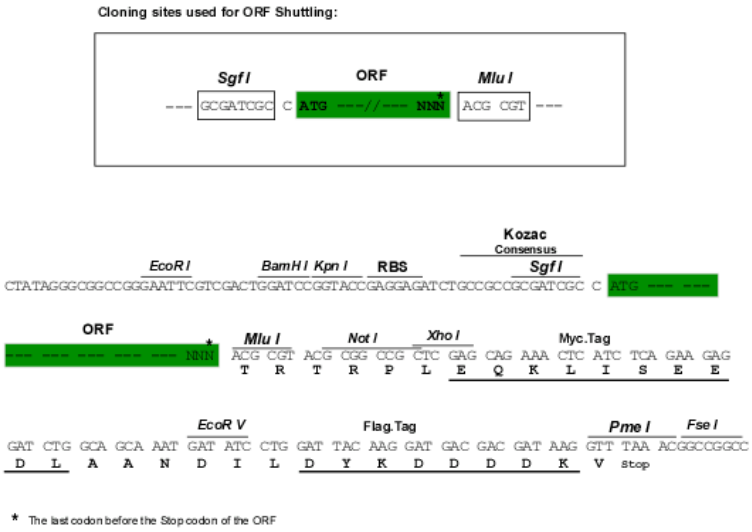
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

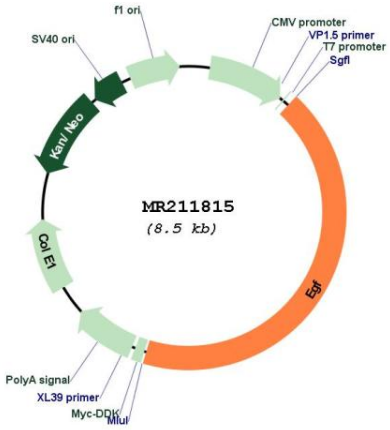


ACCN: NM_010113

ORF Size: 3654 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, NM_010113.2, NM_010113.3, NM_010113.4, NP_034243.1
RefSeq Size:	4757 bp
RefSeq ORF:	3654 bp
Locus ID:	13645
UniProt ID:	P01132
Cytogenetics:	3 58.5 cM
MW:	133.1 kDa
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]

Product images:



Circular map for MR211815