

Product datasheet for RC235184

MEGF10 (NM_001256545) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEGF10 (NM_001256545) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MEGF10
Synonyms:	EMARDD; SR-F3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC235184 representing NM_001256545 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGTTATTTCTTTGAACCTCATGCCTGAGCTTTATTTGTTTATTGTTATGCCACTGGATTGGGACAGCAT
CACCTCTGAATCTTGAAGACCCTAATGTGTGTAGCCACTGGGAAAGCTACTCAGTACTGTGCAAGAGTC
ATACCCACATCCCTTTGATCAAATTTACTACAGAGCTGCACTGACATTCTAACTGGTTTAAATGCACG
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CTGTATTGCTCCAAACACCTGTGAGTGTGAGCCTGGCTGGGGAGGGACCAACTGCTCCAGTGCCTGCGAT
GGTGATCACTGGGGTCCCACTGCACCAGCCGGTGCCAGTGCAAAAAATGGGGCTCTGTGCAACCCCATCA
CCGGGGCTTGCCACTGTGCTGCGGGCTTCCGGGGCTGGCGCTGCGAGGACCGCTGTGAGCAGGGCACCTA
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GTGAGCAGAGATGCCCTTGTCAAATGGAGGAGTGTGTCATCAGTCACTGGAGAATGCTTTGCCCTTC
TGGCTGGATGGGCACAGTGTGTGGTCAAGCCTTGCCCGAGGGTGCCTTTGGAAAGAAGTGTCCCAAGAA
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GCACGTGTGCACCTGGATGGCGCGGGGAGAAATGCGAACTTCCTGCCAGGATGGCACGTACGGGCTGAA
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Protein Sequence:

>RC235184 representing NM_001256545

Red=Cloning site **Green**=Tags(s)

MVISLNSCLSFICLLCHWIGTASPLNLEDPNVCSHWESYSVTVQESYPHPFDQIYYTSTDILNWFKCT
 RHRVSYRTAYRHGEKTYRRLKSRQCPGFYESGEMCVPHCADKCVHGRCIAPNTCQCEPWGGTNCSSACD
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 EARLCPEGLYGIKCDKRCPCHELNTHSCHPMSGECACKPGWSGLYCNETCSPGFYGEACQICSCQNGAD
 CDSVTGKCTCAPGFKIDCSTPCPLGTYGINCSSRGCCKNDAVCSVPVDSCTCKAGWHGWDVCSIRCPST
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 QPCPPAHWGPNCIHTCNCHNGAFCSAYDGECKCTPGWTGLYCTQRCLPGFYGKDCALICQCNQNGADCDHI
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 TLPHSNNGNANSYFTNPSYHTLTQCATSPHVNNRDRMTVTKSKNNQLFVNLKVNVPKGRGVPVDCGTGL
 PADWKHGGYLNELGAFGLDRSYMKSLKDLGKNSEYSSNSCLSSSENPYATIKDPPVLIPKSSECGYVE
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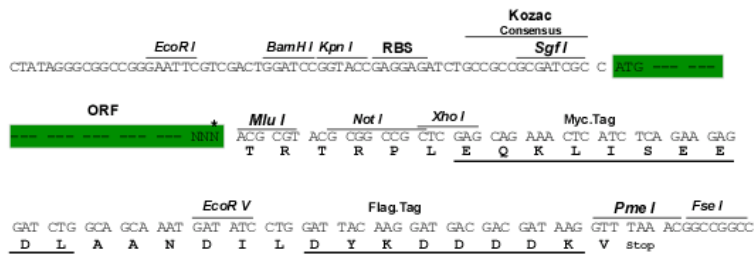
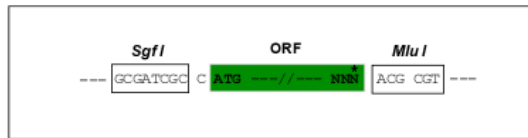
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

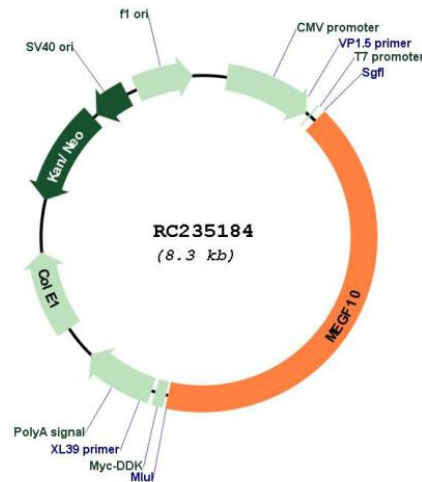
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001256545

ORF Size: 3420 bp

OTI Disclaimer: 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_001256545.2](#)

RefSeq Size: 7638 bp

RefSeq ORF: 3423 bp

Locus ID: 84466

UniProt ID: [Q96KG7](#)

Cytogenetics: 5q23.2

Protein Families: Transmembrane

MW: 122.7 kDa

Gene Summary: This gene encodes a member of the multiple epidermal growth factor-like domains protein family. The encoded protein plays a role in cell adhesion, motility and proliferation, and is a critical mediator of apoptotic cell phagocytosis as well as amyloid-beta peptide uptake in the brain. Expression of this gene may be associated with schizophrenia, and mutations in this gene are a cause of early-onset myopathy, areflexia, respiratory distress, and dysphagia (EMARDD) as well as congenital myopathy with minicores. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Apr 2012]