

## Product datasheet for **SC104847**

### MEGF10 (NM\_032446) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MEGF10 (NM_032446) Human Untagged Clone
Tag:	Tag Free
Symbol:	MEGF10
Synonyms:	EMARDD; SR-F3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_032446, the custom clone sequence may differ by one or more nucleotides

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ATGGTTATTTCTTTGAACATCATGCCTGAGCTTTATTTGTTTATTGTTATGCCACTGGATTGGGACAGCAT
CACCTCTGAATCTTGAAGACCCTAATGTGTGTAGCCACTGGGAAAGCTACTCAGTGACTGTGCAAGAGTC
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CTGTGCTGAGCGCTGCGACTGCAGCCACGCAGATGGCTGCCACCCTACCACGGGCCATTGCCGCTGCCTC  
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 TCCTCCCCTAAGCAAGAGGACAGTGGTGGTAGCAGCAGCAACAGCAGCAGCAGCAGTGAATGA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_032446 unedited  
 TTTTACCCCGCCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAG  
 CAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGC  
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 TGAGACGTTCCCTTTCCCGCTTCTCCACCTTTACGCCTGAAAGAAGACTCCCAAAGATT  
 GCTTTCTTCTGGGACGCTGCTTGAACGCTAACCGCGTTGATTGGAACAGATTTTGTGCT  
 TGGCTGGCTTTGGGTGAAGACCGGGGAGAAAAGGTTGCGCTGCGATTCTCAAGATCTCTG  
 GACCTGGGTTGTTCTTCAGAAAAAATGGTTATTTCTTTGAACTCATGCCTGAGCTTTAT  
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 CAGAGTCAGTATCGGACAGCCTATCGACATGGGGAGAAGACTATGTATAGGCGCAAGTC  
 TCAGTGTGTCTCGGATTTTATGAAAGCGGNGAAATGTGTGTCCCCACTGTGCTGATAA  
 ATGTGTCCATGGTCGCTGTATTGCTCCAAACACCTGTGAGTGTGAGCCTGGCTGNNAGG  
 GACCAACTGCTCCAGTGCCTGCGATGGTGTACTGGNGTCCCCACTGCACCAGCCGGTG  
 CCAGTGCAAAN

<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_032446 unedited            CACCATTGGCCATGGCGATGGCAATCCCATTTTCAGGANAGCACTGGGGCAGGGGTCAC            AGGGCATGCCACCCGGGTTCTGTTTCAGGAAACAGCTATGACCCGCGCCGCAATCTAGAGT            CGAGTTTTTTTTTTTTTTTTTTTCAAGCAAAAGATAAGTGGCAATAATACAAGGAATAACG            AACATATAATATTTTTTCATTAACAATCCAAACACTACAAAACATAGAATATGCAATTTA            AAAATGGAAATACAAATTAATGAAAAGTTGGGTACATGTCACATTAGCAATGCAAAAGAC            CAGCTTAAGCATAGTTTCTCTAAATTGACAATTAATAAAAAGGAAAGTTCCTTTTCTCAA            TATGCACAAAAATATTTTCAGTCACTTCTAGGGAAGGATTAATCAAAATGTTCCACTAATT            CTATATTACAGCATGTATTACTAATGGTTTACAGAACGTAAGCGTCATCTTGCAATTTAA            ATTTACAACCTTTATCAATCATTACACACTCATTCCATCCAGTCTGTCAAAAATAAAATT            ATTTCAATTTCTATATTTATGAAATAACTATTGATATGTTATGAATCTCAAGTGGTGAATA            TGTATGATGGAGCCAGTATCAGAATAATGTCATAGATCTGAAGTTGGTTGAGAGTCAA            CAGAGAAAACCACCTCTGCCTGGCACATTTGTGTATTGACTTCTGCAATACTTCTACTA            TTTCTAAAATAATTCTAATTGTATATTTTCTCATTCTAAACAAAATCTAAGATTTTCGTA            AATTTTCTGTCCACTTTAGAGTATATTCAAAGTCTGTCCAGTCATACCGCTGACAGAA            TGTTTCCTNCTGCATTC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_032446
<b>Insert Size:</b>	4600 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<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>	<a href="#">NM_032446.1</a> , <a href="#">NP_115822.1</a>
<b>RefSeq Size:</b>	7522 bp

RefSeq ORF: 3423 bp

Locus ID: 84466

UniProt ID: [Q96KG7](#)

Cytogenetics: 5q23.2

Domains: EGF\_Lam, EGF, EGF

Protein Families: Transmembrane

**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]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Both variants 1 and 2 encode isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.