**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for MC223726

## Megf10 (NM_001001979) Mouse Untagged Clone

## Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Megf10 (NM_001001979) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Megf10 |
| **Synonyms:** | 3000002B06Rik; Gm331 |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Cell Selection:** | Neomycin |

**Fully Sequenced ORF:**

```
>MC223726 representing NM_001001979
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGATTTCTTCAAGTTCGTGCCTGGGCCTCATCTGCTCACTGCTCTGTCACTGGGTGGGGACAGCAT
CCTCCCTGAACCTGGAAGACCCCAACGTATGCAGCCACTGGGAAAGCTACTCGGTGACTGTGCAGGAGTC
GTATCCACATCCCTTCGATCAGATCTACTACACAAGCTGCACCGACATCCTGAACTGGTTTAAATGCACA
CGGCACAGAATCAGCTACCGGACAGCCTACCGCCACGGGGAGAAAACCATGTATAGACGCAAATCCCAGT
GTTGCCCAGGATTTTATGAAAGCCGAGACATGTGTGTCCCTCACTGTGCTGATAAATGTGTCCATGGTCG
CTGCATTGCTCCAAACACCTGTCAGTGTGAGCCTGGCTGGGGTGGGACCAACTGTAGCAGTGCTTGTGAT
GGTGATCACTGGGGGCCTCACTGCAGCAGCCGATGCCAGTGCAAAAACAGAGCTTTGTGTAACCCCATCA
CCGGTGCTTGCCACTGCGCTGCGGGCTACCGGGGATGGCGCTGCGAGGACCGTTGTGAACAGGGCACGTA
CGGTAACGACTGTCACCAAAGATGCCAGTGTCAGAATGGAGCGACCTGTGACCACATCACTGGGGAATGC
CGTTGTTCACCTGGGTACACTGGAGCCTTCTGTGAGGATCTTTGTCCTCCTGGCAAACATGGTCCACATT
GTGAGCAGAGGTGTCCCTGCCAAAATGGGGGTGTGTGCCACCATGTCACTGGAGAGTGCTCTTGCCCTTC
TGGTTGGATGGGCACAGTGTGTGGTCAGCCCTGCCCTGAGGGTCGCTTTGGAAAGAACTGTTCCCAAGAA
TGCCAGTGTCACAATGGAGGAACGTGTGATGCTGCCACAGGCCAGTGTCACTGCAGCCCAGGATACACAG
GGGAACGGTGTCAGGACGAATGTCCTGTTGGGAGCTATGGAGTTCGCTGTGCTGAGGCCTGCAGGTGTGT
CAACGGAGGCAAGTGTTACCACGTGAGTGGTACATGCCTGTGCGAAGCAGGCTTTTCGGGTGAACTTTGC
GAGGCGCGCCTGTGTCCCGAGGGGCTTTACGGCATCAAATGTGACAAGCGGTGCCCCTGCCACCTGGACA
ACACTCACAGCTGTCATCCCATGTCTGGAGAGTGTGGCTGCAAGCCGGGTTGGTCGGGACTGTACTGTAA
TGAAACATGCTCCCCTGGATTCTACGGGGAGGCTTGCCAACAGATCTGCAGCTGCCAGAACGGGGCGGAC
TGCGACAGTGTGACTGGAAGGTGTGCCTGCGCTCCAGGATTCAAAGGGACTGACTGCTCTACTCCGTGTC
CTCTGGGACGCTACGGGATAAATTGTTCTTCTCGCTGTGGCTGTAAAAATGATGCTGTCTGTTCTCCTGT
GGATGGATCATGTATCTGTAAGGCAGGCTGGCACGGGGTGGACTGTTCCATCCGCTGCCCCAGTGGCACA
TGGGGCTTTGGCTGTAACCTAACGTGTCAGTGCCTCAATGGCGGTGCCTGCAACACGCTGGATGGGACCT
```



View online »

GCACCTGTGCGCCCGGATGGCGAGGCGCGAAGTGTGAATTTCCCTGCCAGGATGGCACTTATGGGCTGAA
CTGTGCCGAGCGCTGTGACTGCAGCCATGCAGATGGCTGTCACCCCACTACAGGCCATTGCCGCTGCCTC
CCTGGATGGTCAGGTGTGCACTGTGACAGTGTGTGCGCTGAGGGACGCTGGGGTCCTAACTGCTCGCTGC
CCTGCTACTGTAAAAATGGGGCTTCGTGTTCTCCGGATGATGGCATCTGTGAGTGTGCACCCGGATTCCG
AGGCACCACTTGCCAGAGAATCTGCTCCCCCGGTTTTTATGGACATCGCTGTAGCCAGACCTGCCCGCAG
TGTGTGCACAGCAGTGGGCCCTGCCACCACATCACGGGCCTGTGTGACTGCTTACCTGGCTTCACCGGTG
CCCTGTGCAATGAAGTGTGTCCCAGTGGCAGATTTGGGAAAAACTGTGCAGGCGTTTGTACTTGCACCAA
CAATGGCACCTGTAACCCCATCGACAGATCCTGCCAGTGTTACCCAGGCTGGATTGGCAGTGACTGCTCC
CAGCCCTGTCCACCTGCGCACTGGGGTCCGAACTGCATCCACACCTGCAACTGCCACAACGGAGCCTTTT
GCAGCGCCTATGATGGGGAATGCAAATGCACTCCTGGCTGGACGGGGCTCTACTGCACTCAGAGATGCCC
TCTGGGCTTCTATGGTAAGGACTGTGCACTGATATGCCAATGTCAAAACGGAGCTGACTGCGACCATATC
TCGGGGCAGTGTACCTGCCGCACGGGATTCATGGGACGGCACTGTGAACAGAAGTGCCCTGCGGGAACAT
ACGGCTATGGCTGTCGCCAGATCTGTGACTGTCTGAACAACTCCACCTGTGACCACATCACTGGCACGTG
TTACTGTAGCCCAGGATGGAAAGGGGCACGATGTGACCAAGCTGGGGTTATCATCGTGGGCAATCTGAAC
AGCTTAAGCCGGACCAGCACCGCCCTTCCTGCCGATTCCTATCAGATCGGGGCCATCGCGGGCATCGTGG
TCCTCGTTCTTGTTGTGCTCTTCCTGCTGGCGCTGTTCATCATCTACAGACACAAGCAGAAGAGGAAGGA
ATCAAGCATGCCGGCCGTGACCTACACCCCCGCCATGAGGGTCATCAATGCAGACTATACCATCGCAGAA
ACCCTGCCTCACAGCAATGGTGGAAATGCCAACAGCCACTACTTTACCAATCCCAGTTATCACACACTTA
GCCAGTGTGCCACATCCCCTCATGTGAACAATAGGGACAGGATGACCATTGCAAAGTCAAAAAACAATCA
GCTGTTTGTGAATCTTAAAAATGTGAATCCAGGGAAGAGAGGGACATTGGTGGACTGCACTGGGACATTG
CCAGCTGACTGGAAGCAAGGAGGCTACCTCAATGAGCTTGGTGCTTTCGGGCTGGACAGAAGCTACATGG
GAAAGTCCTTAAAAGATCTGGGGAAGAACTCTGAATATAATTCAAGCACTTGCTCCTTAAGCAGCTCTGA
AAACCCATATGCCACCATTAAAGACCCGCCTGCACTCCTGCCTAAAAGCTCCGAGTGCGGCTACGTGGAG
ATGAAGTCGCCGGCGCGGAGAGACTCCCCATATGCAGAGATCAACAACTCAACTCCAGCCAACAGGAATG
TCTATGAAGTCGAACCTACAGTGAGCGTTGTGCAAGGAGTATTCAGCAACAGCGGTCACGTCACCCAAGA
CCCATATGACCTTCCAAAGAACAGTCACATCCCTTGCCATTATGACCTGCTGCCAGTAAGGGACAGTTCA
TCCTCCCCAAAGAGAGAGGATGGTGGTGGCAGCAACAGCACCAGCAGCAACAGCACCAGCAGCAGCAGCA
GCAGCAGTGAATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM_001001979

**Insert Size:** 3444 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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_001001979.2, NP_001001979.1

**RefSeq Size:** 7514 bp

**RefSeq ORF:** 3444 bp

**Locus ID:** 70417

**UniProt ID:** Q6DIB5

**Cytogenetics:** 18 D3

**Gene Summary:** Membrane receptor involved in phagocytosis by macrophages and astrocytes of apoptotic cells. Receptor for C1q, an eat-me signal, that binds phosphatidylserine expressed on the surface of apoptotic cells (PubMed:27170117). Cooperates with ABCA1 within the process of engulfment (By similarity). Promotes the formation of large intracellular vacuoles and may be responsible for the uptake of amyloid-beta peptides (PubMed:20828568). Necessary for astrocyte-dependent apoptotic neuron clearance in the developing cerebellum (PubMed:27170117). Plays role in muscle cell proliferation, adhesion and motility. Is also an essential factor in the regulation of myogenesis. Controls the balance between skeletal muscle satellite cells proliferation and differentiation through regulation of the notch signaling pathway (PubMed:28498977). May also function in the mosaic spacing of specific neuron subtypes in the retina through homotypic retinal neuron repulsion. Mosaics provide a mechanism to distribute each cell type evenly across the retina, ensuring that all parts of the visual field have access to a full set of processing elements (PubMed:22407321). [UniProtKB/Swiss-Prot Function]