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 MC222803

Megf11 (NM_172522) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Megf11 (NM_172522) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Megf11
Synonyms:	2410080H04Rik; D130061K05
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC222803 representing NM_172522
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCCGTCTGCGGTGGGCCTCCTTGTCTTCCTTCTGCAAGCTGCTCTTGCTCTGAACCCTGAAGACC
CCAATGTGTGTAGCCACTGGGAGAGCTATGCCGTGACTGTGCAGGAGTCTTATGCACACCCCTTTGATCA
GATCTACTACACACGATGTGCAGACATCCTCAACTGGTTCAAGTGTACCCGGCACCGGATCAGCTATAAG
ACCGCGTATAGGCGCGGCCTCCGGACCATGTACCGGCGGAGGTCCCAATGCTGCCCTGGCTACTATGAGA
ACGGAGACTTCTGCATTCGCTGTGACAGCGAGCACTGGGGTCCCCACTGCAGCAACCGGTGTCAGTGTCA
GAACGGCGCCCTGTGCAACCCTATCACCGGCGCCTGCGTGTGCGCCCCGGGCTTCCGAGGCTGGCGCTGT
GAGGAACTCTGCGCTCCTGGTACTCACGGCAAGGGCTGCCAGCTGCTCTGTCAGTGCCACCATGGCGCCA
GCTGTGACCCGCGCACTGGCGAGTGCCTCTGCGCTCCTGGCTACACAGGCGTTTACTGTGAGGAGCTGTG
CCCCCCTGGGAGCCATGGAGCTCACTGTGAGCTGCGCTGCCCCTGCCAGAATGGAGGCACCTGCCACCAC
ATCACTGGCGAATGTGCCTGCCCTCCAGGCTGGACGGGAGCAGTGTGTGCCCAGCCCTGCCCTCCAGGGA
CCTTTGGCCAGAACTGTAGCCAGGACTGTCCCTGCCACCATGGAGGCCAGTGTGACCATGTGACTGGACA
ATGCCACTGTACAGCTGGATACATGGGGGACAGGTGTCAAGAAGAATGTCCCTTTGGAACGTTCGGTTTC
CTGTGCTCTCAACGCTGTGACTGCCACAATGGAGGTCAATGTTCACCAGCCACAGGGGCCTGTGAGTGTG
AGCCTGGCTACAAGGGCCCTAGCTGCCAGGAGCGGCTATGCCCTGAGGGCCTGCATGGCCCAGGCTGCAC
CTTGCCCTGCCCCTGTGACACCGAGAACACTATCAGCTGCCATCCAGTTACTGGAGCTTGTACCTGCCAA
CCAGGCTGGTCTGGCCACTACTGCAATGAGTCCTGCCCCGCCGGCTACTATGGCAACGGTTGCCAGCTAC
CCTGCACCTGCCAGAACGGTGCTGACTGCCACAGTATCACCGGGAGCTGCACTTGTGCTCCAGGCTTCAT
GGGAGAGGTGTGTGCCGTCCCCTGTGCTGCAGGGACCTATGGTCCCAACTGTTCATCTGTATGTAGCTGT
AGCAACGGCGGCACCTGTTCCCCAGTGGATGGCTCCTGCACCTGCCGAGAGGGATGGCAGGGCCTGGACT
GCTCCCTGCCTTGTCCCAGTGGGACCTGGGGCCTGAACTGCAATGAGACTTGCATCTGTGCCAATGGAGC
TGCCTGCAGCCCCTTTGATGGGTCCTGTGCCTGCACCCCAGGCTGGCTGGGGGACTCCTGTGAACTGCCC
TGCCCGGACGGCACTTTTGGGCTGAACTGCAGTGAGCATTGCGACTGCAGCCATGCTGATGGCTGTGACC
CTGTCACAGGCCACTGCTGCTGCCTGGCAGGATGGACAGGCATCCGCTGTGATAGCACGTGTCCTCCAGG
TCGCTGGGGCCCCAACTGTTCAGTGTCCTGCAGCTGTGAGAACGGAGGTTCCTGCTCCCCGGAGGACGGG
AGCTGCGAGTGTGCCCCTGGCTTTCGAGGACCCTTATGTCAGAGAATCTGCCCACCAGGATTCTACGGCC
ATGGCTGCGCCCAGCCTTGTCCCCTCTGCGTGCACAGCAGGGGGCCCTGCCACCACATCAGTGGTATCTG
TGAGTGCCTGCCAGGATTCTCTGGAGCCTTGTGCAACCAAGTGTGTGCTGGAGGGCACTTCGGGCAGGAC
TGTGCCCAGCTCTGTTCCTGTGCCAACAATGGGACCTGCAGCCCCATCGATGGCTCCTGTCAGTGCTTCC
CTGGGTGGATTGGCAAGGACTGCTCACAGGGTTGCCCTTCAGCATTTTTTGGGAAGGACTGTGGGCACAT
ATGCCAGTGTCAGAATGGAGCCAGCTGTGACCACATCACTGGGAAATGCACCTGTCGAACAGGCTTCTCT
GGCCGCCACTGTGAACAGAGATGTGCCCCTGGAACCTTTGGATATGGGTGTCAGCAGCTATGTGAGTGCA
TGAACAATGCCACTTGTGACCACGTCACTGGTACCTGTTACTGTAGCCCGGGATTCAAAGGAATCAGGTG
TGACCAAGCTGCCCTCATGATGGATGAGCTGAATCCCTACACCAAGATCAGTCCAGCTCTGGGAGCAGAG
CGGCACTCAGTGGGTGCTGTCACCGGCATCGTTCTCCTGTTGTTCCTGGTGGTGGTGCTGCTGGGCCTGT
TTGCCTGGCGACGGAGGCGGCAGAAAGAGAAAGGCCGTGACCTGGCTCCCCGAGTCTCCTACACCCCAGC
CATGAGGATGACCAGCACAGACTACTCTCTCTCAGATTTGTCTCAAAGTAGCAGCCATGCCCAGTGCTTT
TCCAATGCCAGCTACCACACACTGGCGTGTGGGGGGCCTGCCACCAGCCAGGCCAGCACTCTGGACAGGA
ACAGCCCCACCAAGCTCAGTAACAAGTCCCTTGACAGAGACACAGCAGGCTGGACCCCCTACAGCTATGT
GAACGTGTTAGACTCCCATTTCCAGATCAGTGCCCTGGAGGCCAGGTACCCGCCCGAGGACTTCTACATT
GAACTTAGACACCTCAGCCGCCATGCTGAGCCACACTCACCAGGCACTTGTGGAATGGACAGACGTCAGA
ACACATACATTATGGACAAAGGCTTCAAAGTTGCACCTGCTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_172522
Insert Size:	2844 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_172522.4, NP_766110.3
RefSeq Size:	3669 bp
RefSeq ORF:	2844 bp
Locus ID:	214058
UniProt ID:	Q80T91
Cytogenetics:	9 C
Gene Summary:	May regulate 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.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' coding region, 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (2) has a distinct C terminus and is shorter than isoform 1. CCDS Note: This CCDS representation is based on the splice pattern of AK051642.1, which contains an alternative and shorter 3' end compared to homologous transcripts, including human NM_032445.2, AB300051.1 and BC126313.1. Mouse AK122555.2 encodes a longer protein, as represented in SwissProt Q80T91.3 (1091 aa), but this mRNA may possibly retain an intron at its 3' end (nts 3409-4001) compared to mouse AK160406.1 and homologous human transcripts, and thus, more evidence is needed to represent this longer protein.