

Product datasheet for **MG217258**

Megf11 (NM_172522) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Megf11 (NM_172522) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Megf11
Synonyms:	2410080H04Rik; D130061K05
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG217258 representing NM_172522
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCCGTCTGCGGTGGCCCTCCTTGTCTTCTCTGCAAGCTGCTCTTGCTCTGAACCTGAAGACC
 CCAATGTGTGTAGCCACTGGGAGAGCTATGCCGTGACTGTGCAGGAGTCTTATGCACACCCCTTTGATCA
 GATCTACTACACACGATGTGCAGACATCCTCAACTGGTTCAAGTGTACCCGGCACCGGATCAGCTATAAG
 ACCGCGTATAGGCGCGCCTCCGGACCATGTACCGGCGGAGGTCCCAATGCTGCCCTGGCTACTATGAGA
 ACGGAGACTTCTGCATTGCTGTGACAGCGAGCACTGGGGTCCCCACTGCAGCAACCGGTGTCAAGTGTCA
 GAACGCGCCCTGTGCAACCTATACCGGCGCCTGCGTGTGCGCCCCGGGCTTCCGAGGCTGGCGCTGT
 GAGGAATCTGCGCTCCTGGTACTCACGGCAAGGGCTGCCAGTGTCTGTCAAGTGTGCCACCATGGCGCCA
 GCTGTGACCCGCGCACTGGGAGTGCCTCTGCGCTCCTGGCTACACAGGCGTTTACTGTGAGGAGCTGTG
 CCCCCCTGGGAGCCATGGAGCTCACTGTGAGTGTGCGCTGCCCTGCCAGAATGGAGGCACCTGCCACCAC
 ATCACTGGCGAATGTGCCTGCCCTCCAGGCTGGACGGGAGCAGTGTGTGCCACGCTGCCCTCCAGGGA
 CCTTTGGCCAGAACTGTAGCCAGGACTGTCCCTGCCACCATGGAGGCCAGTGTGACCATGTGACTGGACA
 ATGCCACTGTACAGCTGGATACATGGGGGACAGGTGTCAAGAAGAATGTCCCTTTGGAACGTTCCGGTTTC
 CTGTGCTCTCAACGCTGTGACTGCCACAATGGAGGTCAATGTTCAACAGCCACAGGGGCTGTGAGTGTG
 AGCCTGGCTACAAGGGCCCTAGCTGCCAGGAGCGGCTATGCCCTGAGGGCCTGCATGGCCAGGCTGCAC
 CTTGCCCTGCCCTGTGACACCGAGAACACTATCAGTGCATCCAGTTACTGGAGCTTGTACCTGCCAA
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 CTTGCACCTGCCAGAACGGTGTGACTGCCACAGTATCACCGGGAGCTGCACTTGTGCTCCAGGTTTCA
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 TGCCCGGACGGCACTTTTGGGCTGAACTGCAGTGAAGTGTGCGACTGCAGCCATGCTGATGGCTGTGACC
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 TCGCTGGGGCCCCAACTGTTCAAGTGTCTGAGCTGTGAGAACGGAGGTTCTGTCTCCCGGAGGACGGG
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 ATGGCTGCGCCAGCCTTGTCCCCTCTGCGTGCACAGCAGGGGGCCCTGCCACCACATCAGTGGTATCTG
 TGAGTGCCTGCCAGGATTCTCTGGAGCCTTGTGCAACCAAGTGTGTGCTGGAGGGCACTTCGGGCAGGAC
 TGTGCCAGCTCTGTTCCCTGTGCCAACAATGGGACCTGCAGCCCCATCGATGGCTCCTGTGAGTGTCC
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 CATGAGGATGACCAGCACAGACTACTCTCTCAGATTTGTCTCAAAGTAGCAGCCATGCCAGTGTCTTT
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 GAACGTGTTAGACTCCCATTTCCAGATCAGTGCCTGGAGGCCAGGTACCCGCCCCGAGGACTTCTACATT
 GAACTTAGACACCTCAGCCGCCATGCTGAGCCACACTACCAGGCACTTGTGGAATGGACAGACGTCAGA
 ACACATACATTATGGACAAGGCTTCAAAGTTGCACCTGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG217258 representing NM_172522
 Red=Cloning site Green=Tags(s)

MAPSAVGLLVFLLQAALALNPEDPNVCSHWESYAVTVQESYAHFPDQIYYTRCADILNWFKCTRHRISYK
 TAYRRGLRTMYRRRSQCCPGYYENGDFCIRCDSEHWGPHCSNRCQCQNGALCNPITGACVCAPGFRGWRC
 EELCAPGTHGKGCQLLCQCHHGASCDPRTGEELCAPGYTGVYCEELCPPGSHGAHCELRPCQNGGTCHH
 ITGECACPPGWTGAVCAQPCPPGTFGQNCSDQDCPHGGQCDHVTGQCHCTAGYMGDRQCQECPFGTFGF
 LCSQRCDCHNGGQCSPATGACECEPGYKGPSCQERLCPEGLHGPCTLPCCDENTISCHPVTGACTCQ
 PGWSGHYCNESCPAGYYNGCQLPCTCQNGADCHSITGSCTCAPGMGEVCAVPCAAGTYPNCSVSCSC
 SNGGTCSPVDGSCTCREGWQGLDCSLPCPSGTWGLNENETICANGAACSPFDGSCACTPGWLGDSCELP
 CPDGTGFLNCSEHDCSHADGCDPVTGHCCLAGWTGIRCDSTCPPGRWGPNCVSVSCSENGGSCSPEDG
 SCECAPGFRGPLCQRICPPGFYGHGCAQPCPLCVHSRGPCHHISGICECLPGFSGALCNQVCAGGHFGQD
 CAQLCSCANNGTCSPIDGSCQCFPGWIGKDCSQGCPAFFGKDCGHCICQCNQASCDHITGKCTCRTGFS
 GRHCEQRCAPGTFGYGCQQLCECMNATCDHVTGTCTYCSPGFKGIRCDQAALMDELNPYTKISPALGAE
 RHSVAVTGIIVLLFLVVLLGLFAWRRRRQKEKGRDLAPRVSYTPAMRMTSTDYSLSDLQSSSHAQCF
 SNASYHTLACGGPATSQASTLDRNSPTKLSNKSLLDRDTAGWTPYSYVNVLDSEHFQISALEARYPPEDFYI
 ELRHLSRHAEPHSPGTCGMDRRQNTYIMDKGFKVAPA

TRTRPLE - GFP Tag - V

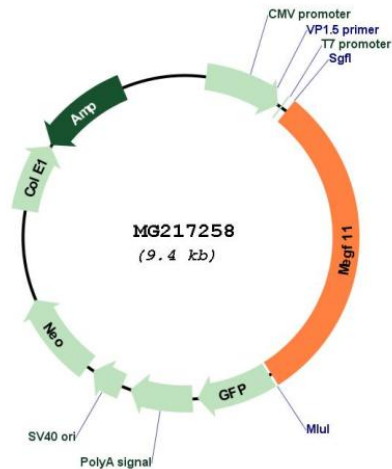
Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_172522

ORF Size: 2841 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_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]