

## Product datasheet for **RG212407**

### MEGF11 (NM\_032445) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | MEGF11 (NM_032445) Human Tagged ORF Clone                                   |
| Tag:                      | TurboGFP  |
| Symbol:                   | MEGF11  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >RG212407 representing NM_032445<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGTGCTCTCCCTGACGGGGCTCATTGCCTTCTCCTTCTGCAAGCCACCCTTGCCCTGAACCCCGAGG  
ACCCCAACGTGTGCAGCCACTGGGAGAGCTATGCTGTGACTGTCCAGGAATCGTATGCACACCCCTTCGA  
TCAGATCTATTACACACGATGCACAGACATCCTCAACTGGTTCAAGTGCACCAGGCACCGGATCAGTTAT  
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AGAGCGGAGACTTCTGCATACCCCTGTGTACGGAGGAGTGTGTGCACGGCCGCTGCGTTTTCCCGGACAT  
CTGCCACTGCGAGCCTGGCTGGGAGGGCCGACTGCTCCAGCGCTGCGACAGCGACCACTGGGGGCC  
CACTGCAGCAACCGGTGCCAGTGCAGAACGGCGCCCTGTGTAACCCATCACAGGCGCCTGCGTGTGCG  
CCGCCGGCTTCCGTGGATGGCGCTGCGAGGAGCTCTGCGCACCTGGCACCCACGGCAAGGGATGCCAGCT  
GCCGTGCCAGTGCCGACACGGTGCAGCTGCGACCCCGCGCGGCGAGTGCCTCTGCGCACCTGGCTAC  
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GTCAGAATGGGGGACCTGCCACCACATCACTGGCGAGTGTGCCCTGCCCCCAGGCTGGACGGGAGCAGT  
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GGCAGTGTGACCACGTGACTGGACAGTGCACCTGTACAGCTGGATACATGGGGGACAGGTGCCAAGAGG  
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CAGTAAGTGGAGCTTGTACCTGCCAGCCAGGCTGGTCTGGTACCAGTGCATGAATCCTGCCCTGTTGG  
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CAAGGAAGGTGGCAGGGCTGGACTGCACCTGCCATGTCCCAGTGGGACGTGGGCGCTGAATGCAAC  
GAGAGTGCACCTGTGCAATGGGGCAGCTGCAGCCCATAGACGGCTCCTGCTCTGCACCTCTGGCT  
GGCTGGGAGACCTGTGAGCTGCCTTGCCGGATGGCACATTTGGGCTGAACTGCAGTGAACACTGTGA



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CTGCAGCCATGCTGATGGATGTGACCCCGTCACAGGCCACTGCTGCTGCCTGGCCGGATGGACAGGCATC
CGCTGTGACAGCACGTGTCCACCTGGCCGCTGGGGCCCAACTGCTCTGTCTCCTGCAGCTGTGAGAATG
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CCCTGCCACCACATCAGCGGCATCTGTGAGTGCCTCCCAGGATTCTTGGAGCTCTTGAACCAAGTGT
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CGCACAGGCTTACCAGGCAACTGTGAGCAGAGATGTGCCAGGAACCTTTGGCTATGGGTGTCAGC
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ATAACTCCAGCTATATCCAGAAATGCATACGACCTACCTAGGAACAGCCATATTCTGGTCATTATGACCT
CCTCCCAGTAAGACAGAGCCCTGCCAATGGGCCGTCCCAGGACAAGCAATCT
```

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG212407 representing NM\_032445  
 Red=Cloning site Green=Tags(s)

```
MVLSLTGLIAFSFLQATLALNPEDPNVCSHWESYAVTVQESYAHFPDQIYYTRCTDILNWFKCTRHRISY
KTAYRRGLRTMYRRRSQCCPGYYESGDFCIPLCTEECVHGRCVSPDTHCEPGWGGPDCSSGCDSDHWGP
HCSNRCQONGALCNPIITGACVCAAGFRGWRCEELCAPGTHGKGCQLPCQCRHGASCDPRAGECLCAPGY
TGVYCEELCPPGSHGAHCELRPCQNGGTCHHITGECACPPGWTGAVCAQPCPPGTFGQNCSDCPCHHG
GQCDHVTGQCHCTAGYMGDRQEECPFGSFGFQCSQHCDCHNGGQCSPTTGACECEPGYKGPCRQERLCP
EGLHGPGCTLPCPCDADNTISCHPVTGACTCQPGWSGHHCNESCVPVGYGDGCQLPCTCQNGADCHSITG
GCTCAPGFMGEVCAVSCAAGTYGPNCSSICSCNNGGTCSPVDGSCCKEHWQGLDCTLPCPSGTWGLNCN
ESCTCANGAACSPIDGSCSTPGWLGDTCELPDGTGFLNCSEHDCSHADGCDPVTGHCCLAGWTGI
RCDSTCPPGRWGPNCVSCSCENGGSCSPEDGSCECAPGFRGPLCQRICPPGFYGHGCAQPCPLCVHSSR
PCHHISGICECLPGFSGALCNQVCAGGYFGQDCAQLCSCANNGTCSPIIDGSCQCFPGWIGKDCSQACPPG
FWGPACFHACSCHNGASCSAEDGACHCTPGWTGLFCTQRCPAAFFGKDCGRVCQCNQASCDHISGKCTC
RTGFTGQHCEQRCAPGTFYGCQQLCECMNNTCDHVTGTCTCYSPGFKGIRCDQAALMMEELNPYTKISP
ALGAERHSVAVTGMILLFLIVVLLGLFAWRRRQKEKGRDLAPRVSYTPAMRMTSTDYSLSGACGMDR
RQNTYIMDKGFKDYMKESVCSSTCSLNSENYPYATIKDPPILTCKLPESYVEMKSPVHMGSPTYDVPV
LSTSNKNIYEVEPTVSVVQEGCGHNSSYIQNAYDLPRNSHIPGHYDLLPVRQSPANGPSQDKQS
```

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_032445

ORF Size: 3132 bp

OTI Disclaimer: 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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_032445.2](#), [NP\\_115821.2](#)

**RefSeq Size:** 5914 bp

**RefSeq ORF:** 3135 bp

**Locus ID:** 84465

**UniProt ID:** [A6BM72](#)

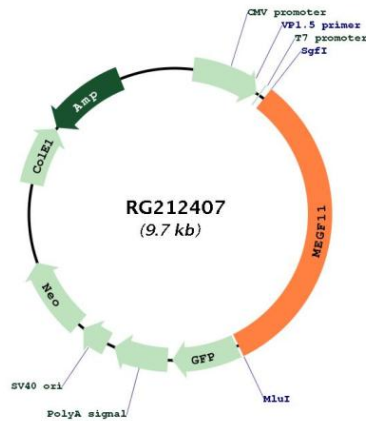
**Cytogenetics:** 15q22.31

**Domains:** EGF\_Lam, EGF, EGF

**Protein Families:** Transmembrane

**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 (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG212407