

## Product datasheet for **MG203093**

### Mog (NM\_010814) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mog (NM_010814) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mog
Synonyms:	B230317G11Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203093 representing NM_010814 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCTGTTTGTGGAGCTTCTTTGCCAGCTGCTTCCTCTCCCTTCTCCTCCTCCTCCTCCAGT  
TGTCATGCAGCTATGCAGGACAATTCAGAGTGATAGGACCAGGGTATCCCATCCGGGCTTTAGTTGGGA  
TGAAGCAGAGCTGCCGTGCCGATCTCTCTGGGAAAAATGCCACGGGCATGGAGGTGGTTGGTACCGT  
TCTCCCTTCTCAAGAGTGGTTCACCTCTACCGAAATGGCAAGGACCAAGATGCAGAGCAAGCACCTGAAT  
ACCGGGGACGCACAGAGCTTCTGAAAGAGACTATCAGTGAGGGAAAGGTTACCCTTAGGATTCAGAACGT  
GAGATTCTCAGATGAAGGAGGCTACACCTGCTTCTCAGAGACCACTTTACCAAGAAGAGGCAGCAATG  
GAGTTGAAAGTGAAGATCCCTTCTATTGGGTCAACCCCGGTGTGCTGACTCTCATCGCACTTGTGCCTA  
CGATCCTCCTGCAGGTCTCTGTAGGCCTTGATTCCTTCTCCTGCAGCACAGACTGAGAGGAAAACCTTCG  
TGCAGAAGTAGAGAATCTCCATCGGACTTTTGATCCTCACTTCTCCTGAGGGTGCCCTGCTGGAAAGATAACA  
CTGTTTGTATTGTGCCTGTTCTTGACCCTGGTTGCCTTGATCATCTGCTACAACCTGGCTGCACCGAA  
GACTGGCAGGACAGTTTCTTGAAGAGCTAAGAAACCCCTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203093 representing NM\_010814  
 Red=Cloning site Green=Tags(s)

MACLWSFSLPSCFLLLLLLLLQLSCSYAGQFRVIGPGYPICALVGDEAELPCRISPGKNATGMEVGVYR  
 SPFSRVVHLYRNGKDQDAEQAPEYRGRTELLKETISEGKVTLRIQNVRFSDGGYTCFFRDHSYQEEAAM  
 ELKVEDPFYWVNPGLTLIALVPTILLQVSVGLVFLFLQHRLRGKLRAEVENLHRTFDPHFLRVPCWKIT  
 LFIIVPVLGPLVALIICYNWLHRRLAGQFLEELRNPL

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2491\\_e01.zip](https://cdn.origene.com/chromatograms/ja2491_e01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_010814

**ORF Size:** 741 bp

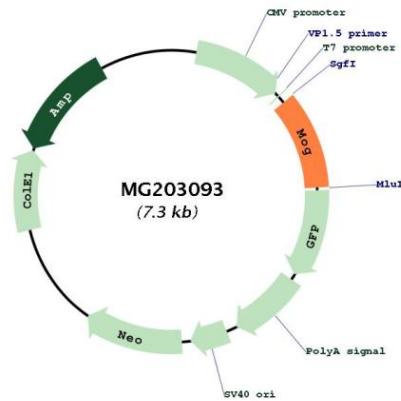
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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.

<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>	<u><a href="#">NM_010814.2</a></u> , <u><a href="#">NP_034944.2</a></u>
<b>RefSeq Size:</b>	1725 bp
<b>RefSeq ORF:</b>	744 bp
<b>Locus ID:</b>	17441
<b>UniProt ID:</b>	<u><a href="#">Q61885</a></u>
<b>Cytogenetics:</b>	17 19.16 cM
<b>Gene Summary:</b>	Minor component of the myelin sheath. May be involved in completion and/or maintenance of the myelin sheath and in cell-cell communication. Mediates homophilic cell-cell adhesion. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG203093