

Product datasheet for **MR203093**

Mog (NM_010814) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mog (NM_010814) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mog
Synonyms:	B230317G11Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203093 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTGTTTGTGGAGCTTCTCTTTGCCAGCTGCTTCCTCTCCCTTCTCCTCCTCCTCCTCCAGT
TGTCATGCAGCTATGCAGGACAATTCAGAGTGATAGGACCAGGGTATCCCATCCGGGCTTTAGTTGGGGA
TGAAGCAGAGCTGCCGTGCCGATCTCTCCTGGGAAAAATGCCACGGGCATGGAGGTGGTTGGTACCGT
TCTCCCTTCTCAAGAGTGGTTCACCTCTACCGAAATGGCAAGGACCAAGATGCAGAGCAAGCACCTGAAT
ACCGGGGACGCACAGAGCTTCTGAAAGAGACTATCAGTGAGGGAAAGGTTACCCTTAGGATTCAGAACGT
GAGATTCTCAGATGAAGGAGGCTACACCTGCTTCTCAGAGACCACTTTACCAAGAAGAGGCAGCAATG
GAGTTGAAAGTGGAAGATCCCTTCTATTGGGTCAACCCCGGTGTGCTGACTCTCATCGCACTTGTGCCTA
CGATCCTCCTGCAGGTCTCTGTAGGCCTTGATTCTCTCTCCTGCAGCACAGACTGAGAGGAAAACCTTCG
TGCAGAAGTAGAGAATCTCCATCGGACTTTTGATCCTCACTTCTCCTGAGGGTGCCCTGCTGGAAGATAACA
CTGTTTGTATTGTGCCTGTTCTTGACCCTGGTTGCCTTGATCATCTGCTACAACCTGGCTGCACCGAA
GACTGGCAGGACAGTTTCTTGAAGAGCTAAGAAACCCCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203093 protein sequence
 Red=Cloning site Green=Tags(s)

MACLWSFSLPSCFLLLLLLLLQLSCSYAGQFRVIGPGYPICALVGDEAELPCRISPGKNATGMEVGWYR
 SPFSRVVHL YRNGKDQDAEQAPEYRGRTELLKETISEGKVTLRIQNVRFSDGGYTCFFRDHSYQEEAAM
 ELKVEDPFYWVNPGLTLIALVPTILLQVSVGLVFLFLQHRLRGKLRAEVENLHRTFDPHFLRVPCWKIT
 L FVIVPVLGPLVALIICYNWLHRRLAGQFLEELRNPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010814

ORF Size: 744 bp

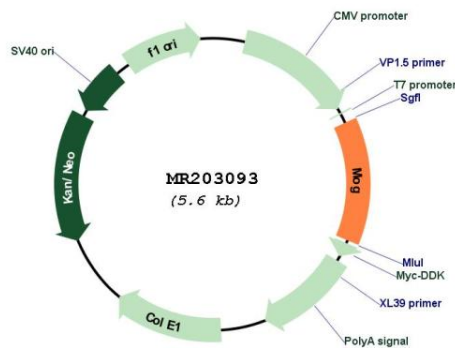
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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_010814.1](#), [NM_010814.2](#), [NP_034944.2](#)
- RefSeq Size:** 1725 bp
- RefSeq ORF:** 744 bp
- Locus ID:** 17441
- UniProt ID:** [Q61885](#)
- Cytogenetics:** 17 19.16 cM
- MW:** 28.3 kDa
- Gene Summary:** 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 MR203093