

Product datasheet for **SC328226**

MOG1 (RANGRF) (NM_001177801) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MOG1 (RANGRF) (NM_001177801) Human Untagged Clone
Tag:	Tag Free
Symbol:	MOG1
Synonyms:	HSPC165; HSPC236; MOG1; RANGNRF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328226 representing NM_001177801. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGGAGCCACGAGAGACTGCCGCTGTTGCGGGGCGCCTTTCCGCCATCCTCCCCATGGGGGCCATT
 GACGTAAGCGACCTCCGACCGGTCCCGGACAATCAAGAAGTTTCTGCCATCCCGTGACGGACCAGAGC
 CTGATAGTGGAATTCTCGAGCTGCAGGCCACGTACGGGGCGAAGCGGCTGCGCGGTACCACTTTGAG
 GATGTTGGTGGCGTGCAGGGGGCTAGGGCTGTCCATGTGGAGTCTGTTACGCCTCTCAGTTTGGAGAAC
 CTGGCCCTGAGGGGCGCTGTCAAGAAGCCTGGGTCTCTGGAAGCAGCAGATAGCTAAGGAAAAC
 CAGCAGGTAGCAAAGGACGTGACACTTCATCAGGCCTTGCTGAGGCTGCCCCAGTACCAGACTGATCTC
 TTGCTTACCTTCAATCAGCCCCG**TAA**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001177801
Insert Size:	441 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).


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OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001177801.1</u>
RefSeq Size:	1078 bp
RefSeq ORF:	441 bp
Locus ID:	29098
UniProt ID:	<u>Q9HD47</u>
Cytogenetics:	17p13.1
MW:	16.1 kDa
Gene Summary:	<p>This gene encodes a protein that has been shown to function as a guanine nucleotide release factor in mouse and to regulate the expression and function of the Nav1.5 cardiac sodium channel in human. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2010]</p> <p>Transcript Variant: This variant (2) includes an alternate segment in the coding region, resulting in a frameshift, compared to variant (1). It encodes isoform B, which has a shorter C-terminus, compared to isoform A.</p>