

Product datasheet for **SC127505**

MOG1 (RANGRF) (BC012552) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MOG1 (RANGRF) (BC012552) Human Untagged Clone
Tag:	Tag Free
Symbol:	MOG1
Synonyms:	HSPC165; HSPC236; MOG1; RANGNRF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for BC012552, the custom clone sequence may differ by one or more nucleotides

ATGGAGCCACGAGAGACTGCCCGCTGTTTCGGGGCGCCTTTTCCGCCATCCTCCCATGGGGGCCATTG
ACGTAAGCGACCTCCGACCGGTCCCGGACAATCAAGAAGTTTTCTGCCATCCCGTGACGGACCAGAGCCT
GATAGTGGAACTTCTCGAGCTGCAGGCCACGTACGGGGCGAAGCGGCTGCGCGGTACCACTTTGAGGAT
GTTGGTGGCGTGCAGGGGGCTAGGGCTGTCCATGTGGAGTCTGTTTCAGCCTCTCAGTTTGGAGAACCTGG
CCCTGAGGGGCCGCTGTCAAGAAGCCTGGGTCTCTTGGAAGCAGCAGATAGCTAAGGAAAACCAGCA
GGTGAGGGCCCGAGAGTGTGTAATGTCTTGAAGGGCGGTAGCGGGACGCAGAGATCCAGGTAAGCATC
CTGACTCTGATCCCTTAGGTAGCAAAGGACGTGACACTTCATCAGGCCTTGCTGAGGCTGCCCCAGTAC
CAGACTGA



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5' Read Nucleotide Sequence:	>OriGene 5' read for BC012552 unedited TTCCCATTAGTATACGACTCACTATAGGCGGCCGCGAAATTCGCACGAGGGGGTGGCGGT GGCAGCTGCGAAACCCAGGAGCCGATGCCACGTGACCCAATGTGGACTTCTTTTAAACCT TTCTAATGCCATAACCCAGCCTCAGACCCATGGAGCCCACGAGAGACTGCCCGCTGTTT GGGGGCGCCTTTTCCGCCATCTCCCATGGGGGCCATTGACGTAAGCGACCTCCGACCG GTCCCGGACAATCAAGAAGTTTTCTGCCATCCCGTGACGGACCAGAGCCTGATAGTGGA CTTCTCGAGCTGCAGGCCACGTACGGGGCGAAGCGGCTGCGCGGTACCACTTTGAGGAT GTTGGTGGCGTGCAGGGGGCTAGGGCTGTCCATGTGGAGTCTGTTCAAGCCTCTCAGTTTG GAGAACCTGGCCCTGAGGGGCCGCTGTCAAGAAGCCTGGGTCCTCTCTGGCAAGCAGCAG ATAGCTAAGGAAAACAGCAGGTAGCAAAGGACGTGACACTTCATCAGGCCTTGCTGAGG CTGCCCCAGTACCAGACTGATCTCTTGCTTACCTTCAATCAGCCCCCGTAAGGAGGAAGG AACGGGCGGGTATCTCATGACTGGGTCCCAAGAGAATCTGGCTGGGAGGGACAGAACAA GGAGACTCACTGCCGGGATGCTACCCGCACAGGATGCGCCAGGGGCCGAGGTTCTGGG CAACGGACACCCAGATCCTCTGGGGACAGGACATTGAATTGTCAAAACCAACCCTCAG GCCGGGTTGATGGTTTGTGTTCTGTTCCCCCCCCAAAGCCTTGCAACAGGTATTT TTTTGGCCCCGAAACTGGCCCCCTGCCCCCTGGACCTGGGACCATTTGACAACTGGGGAC CATCTGCCCTTACGATCTAAAACCTTTGGTCCCAATAAAGGCCTTAACCTATGATTTGTT GAAT
3' Read Nucleotide Sequence:	>OriGene 3' read for BC012552 unedited NTTCGGTACTTCCATAGNACCGCGNCCGCGATTNANGATCGAGTTTTTTTTTTTTTTTT TTGGATATAAAACAA GTTTATTCTGAAAAGGGTTGGCTTATGTTTACCCCCGGGAAAAAATAAGAGGAAACC CTCTTTTCAACCCCTTTTCCCCCTCACAAAACCAAGTCCCAAGTTTTCAACAACATCAT GCAGTGCTTTAGCGCCTTTCTGGGGACAAAAATGTTAGGATCCTGAAGGGGCAAACTG GTCACCAGCTGTTCAAAGTCACCCAGGCTCCCGGGGACAGGGGACAAATTTTCGGGGCCC AAAAAAGACCTGTTGTCAGGGCTTGGGGGGGGGAACAAATGGAGACAGAACATTATCCC GGCCTGGGGGTTGAAAAATGCCATTCTGGTCCCCAAAGGACCTGGGGATTAATTACCC CAAACCTTTGGGCCACTCCTGGTTTCTTGGGGATCCCAAGGGGTCTCCCTGGTTTG TCCCTCCCCGCCCATTTTTCTGGGAACCCCTCATGGGATACCCGGCCGGTTCTTCCCT CCTTCGGGGGCTTTTTGAAGGAAACAAAAATCACTTTGGGTCTGGGGGAACCCCAACA GGGGCCTGAAAAAGGGCACCTCCCTTGGTACCCGGGGGGTTTTCTCAACTATTTGTCTG GCGTGCCCAAAAAGGACCCACGCTTTTTTGAACAGCGCGGCCCTCTAGGGGCCGGGTTT TCCCAACGTGGAGGGGTGAACAAATCTCCCTGGGGAGGGCCTTGCCCCCTGTGGCCC CCCACACATTCTCTAAGAGGGGTACCCCCAAACCCCTTTCCCCCCTACGGGGGCCCT TGCGACTTGGGAAATCCCCTTATACGGGTTTGGTCC
Restriction Sites:	NotI-NotI
ACCN:	BC012552
Insert Size:	1110 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).
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: [BC012552.1](#), [AAH12552.1](#)

RefSeq Size: 1162 bp

RefSeq ORF: 498 bp

Locus ID: 29098

Cytogenetics: 17p13.1

Domains: Mog1

Gene Summary: 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]