

Product datasheet for SC114248

MOG1 (RANGRF) (NM_016492) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MOG1 (RANGRF) (NM_016492) Human Untagged Clone
Tag:	Tag Free
Symbol:	MOG1
Synonyms:	HSPC165; HSPC236; MOG1; RANGNRF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_016492 edited

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ATGGAGCCACGAGAGACTGCCCGCTGTTCCGGGGCGCCTTTTCCGCCATCCTCCCCATG
GGGGCCATTGACGTAAGCGACCTCCGACCGTCCCGACAATCAAGAAGTTTCTGCCAT
CCCGTGACGGACGAGCCTGATAGTGGAACCTCTCGAGCTGCAGGCCACGTACGGGGC
GAAGCGGCTGCGCGGTACCACTTTGAGGATGTTGGTGGCGTGCAGGGGGCTAGGGCTGTC
CATGTGGAGTCTGTTACGCCTCTCAGTTTGGAGAACCTGGCCCTGAGGGGCCGCTGTCAA
GAAGCCTGGGTCTCTTGCAAGCAGCAGATAGCTAAGGAAAACCAGCAGGTAGCAAAG
GACGTGACACTTCATCAGGCCTTGCTGAGGCTGCCCCAGTACCAGACTGATCTCTTGCTT
ACCTTCAATCAGCCCCCCCCTGACAACAGGTCATCTTTGGCCCCGAAAATCTGTACCT
GCACCCTGGAGCCTGGGTGACTTTGAACAGCTGGTGACCAGTCTGACCCTTCACGATCCT
AACATCTTTGGTCCCCAGTAA
  
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_016492 unedited
AATTTCGGCAGGAGCTAAGCCAGACCCGGTGGCGGTGGCAGCTGCGAAACCCAGGGAGC
CGATGCCACGTGACCAATGTGGACTTCTTTAAACCTTTCTAATGCCATAACCCAGCC
TCAGACCCATGGAGCCACGAGAGACTGCCCGCTGTTCCGGGGCGCCTTTTCCGCCATCC
TCCCCATGGGGGCCATTGACGTAAGCGACCTCCGACCGTCCCGACAATCAAGAAGTTT
TCTGCCATCCCGTGACGGACGAGCCTGATAGTGGAACCTCTCGAGCTGCAGGGCCACG
TACGGGGCGAAGCGGCTGCGCGGTACCACTTTGAGGATGTTGGTGGCGTGCAGGGGGCTA
GGGCTGTCCATGTGGAGTCTGTTACGCCTCTCAGTTTGGAGAACCTGGCCCTGAGGGGCC
GCTGTCAAGAAGCCTGGGTCTCTTGCAAGCAGCAGATAGCTAAGGAAAACCAGCAGG
TAGCAAAGGACGTGACACTTCATCAGGCCTTGCTGAGGCTGCCCCAGTACCAGACTGATC
TCTTGCTTACCTTCAATCAGCCCCCCCCTGACAACAGGTCATCTTTGGCCCCGAAAATC
TGTCACCTGCACCCTGGAGCCTGNGTGACTTTGAACAGCTGGTGACCAGTCTGACCCTTC
ACGATCCTAACANTCTTTGGTCCCCAGTAAAGGCGCTGAAGCACTGCATGATGTTGCTGA
GAAGTGGGGAACTCGGNTCTGTGAGGGGAAAAAGAGTTAAANAAAAGGGTTCCG
  
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_016492 unedited <pre> TCTGGAACGGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTATATTGATTAT AAAGCAAGTTTATTCTGAAGAGGGATTGTCTTATGTTTACGCACAGGGGAAGAAATAAGA GGAAACCTCTTTTCAACCTCTTTTCCCCCTCACAGAACCGAGTCCCAAGTTCTCAGCA ACATCATGCAGTGCTTCAGCGCCTTTACTGGGGACCAAGATGTTAGGATCGTGAAGGGT CAGACTGGTCACCAGCTGTTCAAAGTCAACCAGGCTCCAGGTGCAGGTGACAGATTTTC GGGGCCAAGAGATGACCTGTTGTCAGGGGGGGGCTGATTGAAGGTAAGCAAGAGATCAGT CTGGTACTGGGGCAGCCTCAGCAAGGCCTGATGAAGTGTCACGTCTTTGCTACCTGCTG GTTTTCTTAGCTATCTGCTGCTTGCCAGAGAGGACCCAGGCTTCTTGACAGCGGCCCT CAGGGCCAGGTTCTCAAAGTGAAGAGGCTGAACAGACTCCACATGGACAGCCCTAGCCCC CTGCACGCCACCAACATCCTCAAAGTGGTACCGCGCAGCCGCTTCGCCCCGTACGTGGGC CTGCAGCTCGAGAAGTTCCACTATCAGGCTCTGGTCCGTCACGGGATGGCAGAAAATTC TTGATTGTCCGGGACCGGTGCGAGGTCGCTTACGTCAATGGCCCCATGGGGAGGATGGC GGAAAAGGCGCCCCGAACAGCGGGCAGTCTCTCGTGGGCTCCATGGGTCTGAGGCTGGG TTATGGGCATTAAGGTTTAAAGAGTCCACATGGGTACGTGCATCGGCTCCCTGGGG TTCGACGTGNCACCGCCACCGGGTCTGGCTTAACCTCGTGCCGAATCGCGGCCGNCC TAAANNAGTCGTATACAAAATTCTGACGGTCACTAAACGAGCCTGCTT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_016492
Insert Size:	880 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:	NM_016492.3 , NP_057576.2
RefSeq Size:	847 bp
RefSeq ORF:	561 bp
Locus ID:	29098
UniProt ID:	Q9HD47
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]

Transcript Variant: This variant (1) represents the shortest transcript and encodes the longest isoform (A).