

Product datasheet for **SC322409**

MOSC1 (MARC1) (NM_022746) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MOSC1 (MARC1) (NM_022746) Human Untagged Clone
Tag:	Tag Free
Symbol:	MOSC1
Synonyms:	MARC1; MOSC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322409
 CGCGGAGAAGCCAGCCATGGGCGCCGCCGGCTCCTCCGCGCTGGCGCGCTTTGTCCTCCT
 CGCGCAATCCCGGCCCGGGTGGCTCGGGGTTGCCGCGCTGGGCGCTGACCGCGGTGGCGCT
 GGGGGCTGTGCGCTGGCGCCGCGCATGGCCACGCGGCGCCGGCGGCTGCTGCAGCAGGT
 GGGCACAGTGGCGCAGCTCTGGATCTACCTGTGAAATCTGCAAGGGGGTGCCGGTGAG
 CGAGGCGGAGTGCACGGCCATGGGGCTGCGCAGCGGCAACCTGCGGGACAGGTTTTGGCT
 TGTGATCAACCAGGAGGAAACATGGTTACTGCTCGCCAGGAACCTCGCCTGGTCTGAT
 TTCCTGACCTGCGATGGTGACACCCTGACTCTCAGTGCAGCCTACACAAAGGACCTACT
 ACTGCCTATCAAAACGCCACCACAAATGCAGTGACAAAGTGCAGAGTGCACGGCCTGGA
 GATAGAGGGCAGGGACTGTGGCGAGGCCGCCAGTGGATAACCAGCTTCTGAAGTC
 ACAGCCCTACCGCTGGTGCCTTCGAGCCTCACAAGCGACCGAGAGTCTCATCAAAAT
 AGCAGACTTGTCCGACCAAGGACCAGATTGCTTACTCAGACACCAGCCATTCTTGAT
 CCTTTCTGAGGCGTGCCTGGCGGATCTCAACTCCAGGCTAGAGAAGAAAGTTAAAGCAAC
 CAACTTCAGGCCAATATTGTAATTTTCAGGATGCGATGTCTATGCAGAGGATTCTTGGGA
 TGAGCTTCTTATTGGTGACGTGGAAGTAAAAGGGTGATGGCTTGTTCAGATGCATTTT
 AACACAGTGGACCCAGACACCGGTGTCATGAGCAGGAAGGAACCGCTGGAACACTGAA
 GAGTTATCGCCAGTGTGACCCCTCAGAACGAAAGTTATATGGAATCACCCTCTTTGG
 GCAGTATTTGTGCTGGAACCCAGGGACCATCAAAGTGGGAGACCCTGTGACCTGCT
 GGGCCAGTAATGGGAACCGTATGCTCCTGGAATATTAGATGCCTTTTAAAAATGTTCTCAA
 AAATGACAACACTTGAAGCATGGTGTTCAGAAGTGCAGCCTCTACATTTTCTTAAAT
 TGTGATTTTACATTTTTCGCTTTTGGACTTCTGGTGTCTCAATGCTTCAATGTCCCAG
 TGCAAAAAGTAAAGAAATATAGTCTCAATAACTTAGTAGGACTTCAGTAAGTCACTTAAA
 TGACAAGACAGGATTCTGAAAACCTCCCGTTTAACTGATTATGGAATAGTTCTTTCTCCT
 GCTTCTCCGTTTATCTACCAAGAGCGCAGACTTGATCCTGTCACTACCACTCGTTAGAG
 AAAGAGAAGAAGAGAAAGAGGAAGAGTGGTGGCTGGAAGAATGCTCCTAGAATGTGTTA
 TTGCCCTGTTTATGAGGTACGCAATGAAAATTAATGACCCCAATATGGCTGGAAT
 GCCACTTCCCTTTTCTTCAAGCCCCGGGCTAGCTTTTGAATGGCATAAAGACTGAGG
 TGACCTTCAGGAAGCACTGCAGATTAATTTTCCATAGATCTGGATCTGGCCCTGCTGC
 TTCTCAGACAGCATTGGATTTCTAAAGGTGCTCAGGAGGATGGTTGTGTAGTCATGGAG
 GACCCCTGGATCCTTGCATTCCCCTCAGCTAATGACGGAGTGCCTTCTCCAGTTCGG
 GGTGAAAAAGTTCTGAATTCTGTGGAGGAGAAGAAAAGTATTGATGATTTTCAGATAGA
 CTACTGAAAACCTTTAAAGGGGAAAAGGAAAGCATATGTCAGTTGTTTAAAACCAATA
 TCTATTTTTTAACTGATTGTATAACTCTAAGATCTGATGAAGTATATTTTTTATTGCCAT
 TTTGTCCTTTGATTATATTGGGAAGTTGACTAACTTGAAAAATGTTTTTAAAAGTGTGA
 ATAAATGGGAAGCTACTTTGAAA
 AAA

Restriction Sites: Please inquire

ACCN: NM_022746

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).

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:

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_022746.2](#), [NP_073583.2](#)

RefSeq Size: 2043 bp

RefSeq ORF: 1014 bp

Locus ID: 64757

UniProt ID: [Q5VT66](#)

Cytogenetics: 1q41

Domains: MOSC_N

Protein Families: Transmembrane

Gene Summary: As a component of an N-hydroxylated prodrug-converting complex required to reduce N-hydroxylated prodrugs, such as benzamidoxime. Also able to reduce N(omega)-hydroxy-L-arginine (NOHA) and N(omega)-hydroxy-N(delta)-methyl-L-arginine (NHAM) into L-arginine and N(delta)-methyl-L-arginine, respectively.[UniProtKB/Swiss-Prot Function]