

Product datasheet for SC112437

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112437 sequence for NM_022746 edited (data generated by NextGen Sequencing)

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ATGGGCGCCGCGGCTCCTCCGCGCTGGCGCGCTTTGTCCTCCTCGCGCAATCCCGGCC
GGGTGGCTCGGGGTTGCGCGCTGGGCCTGACCGCGGTGCGCGCTGGGGGCTGTCGCCTGG
CGCCGCGCATGGCCACGCGCGCGCGGCTGCTGCAGCAGGTGGGCACAGTGGCGCAG
CTCTGGATCTACCCTGTGAAATCCTGCAAGGGGTGCCGGTGAGCGAGGCGGAGTGCACG
GCCATGGGGTGCAGCAGCGCAACCTGCGGGACAGTTTTGGCTTGATCAACCAGGAG
GGAAACATGGTTACTGCTCGCCAGGAACCTCGCCTGGTCTGATTTCCCTGACCTGCGAT
GGTGACACCCTGACTCTCAGTGCAGCCTACACAAAGGACCTACTACTGCCTATCAAACG
CCCACCACAAATGCAGTGCACAAGTGCAGAGTGCACGGCCTGGAGATAGAGGGCAGGGAC
TGTGGCGAGGCCCGCCAGTGGATAACCAGTTCCTGAAGTACAGCCCTACCGCCTG
GTGCACCTCGAGCCTCACATGCGACCGAGACGTCCCTCATCAAATAGCAGACTTGTCCGA
CCCAAGGACCAGATTGCTTACTCAGACACCAGCCATTCTTGATCCTTTCTGAGGCGTGC
CTGGCGGATCTCAACTCCAGGCTAGAGAAGAAAGTTAAAGCAACCAACTTCAGGCCCAAT
ATTGTAATTTTCAGGATGCGATGTCTATGCAGAGGATTCTTGGGATGAGCTTCTTATTGGT
GACGTGGAAGTAAAAGGGTGTGGCTTGTCCAGATGCATTTTAACCACAGTGGACCCA
GACACCGGTGTCATGAGCAGGAAGGAACCGCTGGAAACACTGAAGAGTTATCGCCAGTGT
GACCCTTCAGAACGAAAGTTATATGGAAAATCACCACTCTTTGGGCAGTATTTTGTGCTG
GAAAACCCAGGGACCATCAAAGTGGGAGACCCTGTGTACCTGCTGGGCCAGTAA

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Clone variation with respect to NM_022746.3
493 a=>g



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022746 unedited
 TTCGAATTTTGTAAACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGGGCGCGCT
 CCGGCCTTGCCGCGCCACCTCGCGGAGAAGCCAGCCATGGGCGCCGCGGCTCCTCCGC
 GCTGGCGCGCTTTGTCTCTCGCGCAATCCCGGCCCGGGTGGCTCGGGGTTGCCGCGCT
 GGGCTGACCGCGGTGGCGCTGGGGCTGTGCGCTGGCGCCGCGCATGGCCACGCGGCG
 CTGCAAGGGGTGCCGGTGAGCGAGGCGGAGTGCACGGCCATGGGGCTGCGCAGCGGCAA
 CCTGCGGGACAGGTTTTGGCTTGTGATCAACCAGGAGGGAACATGGTTACTGCTCGCCA
 GGAACCTCGCCTGGTCTGATTTCCCTGACCTGCGATGGTGACACCCTGACTCTCAGTGC
 AGCCTACACAAAGGACCTACTACTGCCTATCAAAACGCCACCACAAATGCAGTGACAA
 GTGCAGAGTGCACGGCTGGAGATAGAGGGCAGGGACTGTGGCAGGCGCCGCCAGTG
 GATAACCAGTCTCTGAAGTACAGCCCTACCGCTGGTGCCTCGAGCCTCACATGCG
 ACCGAGACGTCTCATCAATAGCAGACTTGTCCGACCAAGGACCAGATTGCTTACTC
 AGACACCAGCCATTTCTTGATCTTTCTGAGGCGTCGTTGGCGATCTCAACTNCAGGC
 TAGAGAAGAAAGTTAAAGCACCAACTTCANGCCAATATTGTAATTTTCANGATGCGATG
 TCTATGCAGAGGATTCTTGGGATGAGCTTCTTATGNNNTGACGTGAAACTGAAAGGGTG
 ATGGGCTGNTCCAGATGCATTTAAACACAGTGGACCAGACACCGGTGTCATGAGCAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_022746 unedited
 GGCCGCAATCTAGAGTCGAGTT
 TTTTTTTTTTACTAACCAAGTAGCTTCCATTTATTCACAGTTTTAAAAACATTTTTTCA
 AGTTTAGTCAACTTCCCAATATAATCAAAGGACAAAAGGGCAATAAAAAATATACTTCAT
 CAAATCTTAAAGTTATACAATCAGTTAAAAATAAATTTTGGGTTTTAAACAACGACAT
 ATGCTTTCTTTTTCCCTTTAAAGTTTTTCAAGTGTCTATCTGAAATCACTGAATCACT
 TTTCTTCTCTCCACAAAATTCAAAATTTTTTCAACCGGAACTGGAAAAGGACCACTCCG
 TCATTACCTGAGGGGAATGGCAAGGATCCAGGGTCTCCATGACTACACAACCATCCTC
 CTGAGCACCTTTAAGAAATCCAATGCTGTCTGAAAAGCAGCAGGGCCAAATCCAATCTA
 TGGAAAATTAATATCTGCAGTGTCTTCTGAAGGGCACCTCAGTCTTTATGCCATTTCAA
 AGCTACCCCGGGCTTGAATAAAAGGGAAAGTGGCATTCCAGCCATATTTGGGGGGCAA
 TTTAATTTTTCATTGCGTACCTCATGAACAGGGGCAATAACACATTCTAGGACATTTCTCC
 AGCCACCCACTCTNCTCTTTCTTTCTTCCCTTTCTTAACGAGTGGTAGTGACAGGA
 TGCCAAGTCTGCCCTTTTGTAAATAAACGGAGAAGCAGGAGAAAAGACCTTTCCCTANTC
 AGTTAACGGGGAGTTTCAGAACCCTGGCTTGCATTTAAAGGACTTACTGAGNTCTCCTAGN
 TATTGAGACTTATTCCTTACTTTTTGCACTGGGCTTGAAGCCTTGAACCCCGAGTTCAA
 GACAAAATGTGAAATCCAATTTAAAAAATGTGAGGCCTCATTGAAACCCTGCTT

Restriction Sites:

NotI-NotI

ACCN:

NM_022746

Insert Size:

2190 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_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]