

Product datasheet for **SC106260**

MOSC2 (MARC2) (AL136931) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MOSC2 (MARC2) (AL136931) Human Untagged Clone
Tag:	Tag Free
Symbol:	MOSC2
Synonyms:	MOSC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC106260 sequence for AL136931 edited (data generated by NextGen Sequencing) ATGGGCGCTTCCAGCTCCTCCGCGCTGGCCCGCCTCGGCCTCCCAGCCCGCCCTGGCCC AGGTGGCTCGGGGTCGCCGCGCTAGGACTGGCCGCCGTGGCCCTGGGGACTGTCGCCTGG CGCCGCGCATGGCCAGGCGCGCGCGGCTGCAGCAGGTGGGCACCGTGGCGAAGCTC TGGATCTACCCGGTGAAATCCTGCAAAGGGTGCCGGTGAGCGAGGCTGAGTGCACGGCC ATGGGGCTGCGCAGCGGCAACCTGCGGGACAGGTTTTGGCTGGTGATTAAGGAAGACGGA CACATGGTCACTGCCCGGAGGAGCCTCGCCTCGTGCTCATCTCCATCATTTATGAGAAC AACTGCCTGATCTTCAGGGCTCCAGACATGGACCAGCTGGTTTTGCCTAGCAAGCAGCCT TCCTCAAACTCACTCCAACTGCAGGATATTTGGCCTTGACATTAAAGGCAGAGACTGT GGCAATGAGGCAGCTAAGTGGTTCACCAACTTCTGAAAAGTGAAGCGTATAGATTGGTT CAATTTGAGACAAACATGAAGGGAAGAATCAAGAAAATTCTCCCACTCTTGATCAG AATTTCCAGGTGGCCTACCCAGACTACTGCCCGCTCCTGATCATGACAGATGCCTCCCTG GTAGATTTGAATACCAGGATGGAGAAGAAAATGAAAATGGAGAATTTAGGCCAAATATT GTGGTGACCAGCTGTGATGCTTTTGAGGAGGCTTCAGCAACCAGGAGGGATTGA Clone variation with respect to AL136931.1 297 t=>c;318 a=>g;360 t=>c;730 g=>a


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5' Read Nucleotide Sequence:	>OriGene 5' read for AL136931 unedited <pre> GGGGCCAANCCATCCTCCNNNNNGGGTTAGATTTGTAAACAATCTTATAGGCGGCCGCG AATTGCGACGAGTCGCTCCCCGGCTCTCCAGGTACCCCGCCGCTGTCTGCCTGTCTTCC TCCATTACCGCGCAGGCTTGGTCACCGCATTAAGGCATTCCTCGCTCTCCGCGAACTGCT CTGCCGCTCTGGCGGTGAAAGTGTGAGAGGGTCCGTAGTTGGGTCAACTTTGACTCCTCT CGCTGCCCGGATCCTTAAGGGCTCTCGTCTCCCGGTCTCCGGTCGCTGCCGGGTCT GTGCGCCGGTCCGCGCCCGCCCTCGCTCTGCCATGGGCGCTTCCAGCTCCTCCGCGCTGG CCGCTCGGCCCTCCAGCCCGGCCCTGGCCAGGTGGCTCGGGGTCGCCGCGTAGGAC TGCGCGCGCTGGCCCTGGGACTGTGCGCTGGCGCCGCGCATGGCCAGCGGCGCGCGG GGCTGCAGCAGGTGGGACCGTGGCGAAGCTCTGGATCTACCCGGTGAAATCCTGCAAG GGGTGCCGGTGAGCGAAGCTGANTGCACGGCCATGGGGCTGCGCAGCGGCACCTGCGGAC AGGTTTTGGTGGTGATAAAGAAGACGGACACATGGTCACTGCCCCGCANGAGCCTCGNC TCGTGCTCATCTCCATATTTATGAGAACAACTGCCTGATCTTCANGGCTCCAGACATGG GACAGCTGGGTTTTGCCTAGCAAGCAGCCTTTCCTCAACAACTNCACCACTGCAGGATA ATTGGCCCTGACATTAAAGGCAGAGACTGTGGCCAATGAGCACCTAAGTTGGTCACCAC CTCTTGAAAACCTGAGCGATAAAAGGGTTCCATTTGAGACAACCATGAGGGGAGAACATCA GGAAAACCTTCTCCCACTCTGATAGGATTTCCAGTGGCCTACCCAACTACTGCCCGTTCC TGACATGAAAATGCTCCCTGTAATATGAACCCGGATGGAAAGAAAGAAATGGGAAAT TCG </pre>
Restriction Sites:	NotI-NotI
ACCN:	AL136931
Insert Size:	1650 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:	AL136931.1 , CAB66865.1
RefSeq Size:	1350 bp
RefSeq ORF:	1350 bp
Locus ID:	54996
Cytogenetics:	1q41
Domains:	MOSC_N
Protein Families:	Transmembrane

Gene Summary:

The protein encoded by this gene is an enzyme found in the outer mitochondrial membrane that reduces N-hydroxylated substrates. The encoded protein uses molybdenum as a cofactor and cytochrome b5 type B and NADH cytochrome b5 reductase as accessory proteins. One type of substrate used is N-hydroxylated nucleotide base analogues, which can be toxic to a cell. Other substrates include N(omega)-hydroxy-L-arginine (NOHA) and amidoxime prodrugs, which are activated by the encoded enzyme. Multiple transcript variants encoding the different isoforms have been found for this gene. [provided by RefSeq, Sep 2016]