

Product datasheet for **SC119872**

SUOX (NM_000456) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SUOX (NM_000456) Human Untagged Clone
Tag:	Tag Free
Symbol:	SUOX
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_000456 edited
GGCGGCCGCAATTTCGGCACGAGGGTAAAATTGCAGTGTCTGAAGACACTGGACCCGCAAA
AGGCTGTCCCTCCCAAACCTGGGATTCTGGGCTCACTGAGTTCACCTGCGAGTCAGCCCT
ACCTGCACTGCTCTGGTCTAGTACAAACAGGCTGCTGGCATTGAGGTCTGCTACAATGCT
GCTGCTGCACAGAGCTGTGGTCTCAGGCTCCAACAGGCTGCAGACTCAAGTCAATCCC
CTCAAGGATCTGCATTGAGCCCTGCTCCACAAATGATTCATTTACGCCCCAGCGCCCCAG
CCTCACCTTCTCTGGTGATAACTCCAGCACCCAGGGATGGAGAGTCATGGGGACCTATT
AGGTCTCGGTGCAGTGTGGCCTATCAGGACCATCGGTGTAGGGCTGCTCAGGAGTCAAC
ACACATATACTAAGGAGGAAGTGAGTTCACACACCAGCCCTGAGACTGGGATCTGGGT
GACTCTGGGCTCTGAGGTCTTTGATGTCACAGAATTTGTGGACCTACATCCAGGGGGGCC
TTCAAAGCTGATGCTAGCAGCTGGGGTCCCCTAGAGCCCTTCTGGGCCCTCTATGCTGT
TCACAACCAGTCCCATGTGCGTGAGTTACTGGCTCAGTACAAGATTGGGGAGCTGAATCC
TGAAGACAAGGTAGCCCCACCGTGGAGACCTCTGACCCTTATGCTGATGATCCTGTACG
TACCCAGCCCTGAAGGTCAACAGCCAGCGGCCCTTAAATGCAGAGCCTCCCCCTGAGCT
GCTGACAGAAAACATACACCCAACCTATCTTCTTACCCGGAACCATCTGCCTGT
ACCTAACCTGGATCCAGACACCTATCGCTTACAGTAGTAGGAGCACCTGGGGGTGAGTC
ACTGTCTCTTCCCTGGATGACTTGACAACTTTCCAGGTACGAGATCACAGTCACTCT
GCAGTGTGCCGCAACCGACGCTCTGAGATGACTCAGGTCAAAGAAGTAAAAGGTCTGGA
GTGGAGAACAGGAGCCATCAGCACTGCACGCTGGGCTGGGGCACGGCTCTGTGATGTGT
AGCCCAGGCTGGCCACCAACTCTGTGAAACTGAGGCCACGTCTGCTTTGAGGGACTGGA
CTCAGACCCTACTGGGACTGCCTATGGAGCATCCATCCCTCTGGCTCGGGCCATGGACCC
TGAAGCTGAGGTCTGCTGGCATATGAGATGAATGGGCAGCCTCTGCCACGTGACCACGG
CTTCCCTGTGCGTGTGGTGGTTCCTGGAGTGGTGGTGCCCGCCATGTCAAATGGCTGGG
CAGAGTGAGTGTGACCCAGAGGAAAGTTACAGCCACTGGCAACGCGGGATTACAAAGG
CTTCTCTCCATCTGTGGACTGGGAGACTGTAGATTTTACTCTGCTCCATCCATTAGGA
ACTTCTGTCCAGTCCGCCATCACAGAGCCCCGGGATGGAGAGACTGTAGAATCAGGGGA
GGTGACCATCAAGGGCTATGCATGGAGTGGTGGTGGCAGGGCTGTGATCCGGGTGGATGT
GTCTCTGGATGGGGCCCTAACCTGGCAGGTGGCTAAGCTGGATGGAGAGGAACAGCGCCC
CAGGAAGGCTGGGCATGGCGTCTGTGGCAGTTGAAAGCCCTGTGCCAGCTGGACAAAA
GGAACGAAACATTGTTTGTAAAGGCTGTGGATGATGGTTACAATGTGCAGCCAGACACCGT
GGCCCCAATCTGGAACCTGCGAGGTGTTCTCAGCAATGCCTGGCATCGTGTCCATGTCTA
TGTCTCCCATGAGCATGAAAAGGAGCCACCTCCACCCCTTCCCCACCCATTAGCCTCA
CTGCTTACAAAAATCTTCCCACTTTCAACTCTTGGATCACAACTCTGGCCTTCCTA
AGCCATACCCAAGTACACATATAGCACATTTACCCAAGGACCTTCCCTCTTTGGACT
ATGTTACATACCCCTCTTGGCCTTTGAACCTGTGCCAGAAAAGTGTGAGTTGTTACAGCAA
GGGGTTAAAAGTAAAAAAGTATTTTGGAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAC
CAAAAAAAAAAAAAAAAAAAAC
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000456 unedited
 TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTAAAATTGCAGTGCTGA
 AGACACTGGACCCGCAAAAGCTGTCCCTCCCAAACCTGGGATTCTGGGCTCACTGAGTTC
 ACCTGCGAGTCAGCCCTACCTGCACTGCTCTGGTCTAGTACAAACAGGCTGCTGGCATTG
 AGGTCTGCTACAATGCTGCTGCTGCACAGAGCTGTGGTCTCAGGCTCCAACAGGCCTGC
 AGACTCAAGTCAATCCCCTCAAGGATCTGCATTAGGCCTGCTCCACAAAATGATTCAATT
 CAGCCCCAGCGCCCCAGCCTCACCTTCTCTGGTGATAACTCCAGCACCCAGGGATGGAGA
 GTCATGGGGACCTATTAGGTCTCGGTGCAGTGTGGCCTATCAGGACCATCGGTGTAGG
 GCTGCTCAGGAGTCAACACACATATACACTAAGGAGGAAGTGAGTTCACACACCAGCCCT
 GAGACTGGGATCTGGGTGACTCTGGGCTCTGAGGTCTTTGATGTCACAGAATTTGTGGAC
 CTACATCCAGGGGGCCTTCAAAGCTGATGCCTAGCAGCTGGGGTCCCCTAGAGCCCTT
 CTGGGCCCTCTATGCTGTTCAACAACAGTCCCATGTGCGTGAGTTACTGGCTCAGTACAA
 GATTGGGGAGCTGAATCCTGAAGACAGGGTACCCCAACCGTGGAGACCTTGACCTTATG
 CTGATGATCCCGTACGTACCACCCNNTGAAGTACAGCCAGCGCCCTTATGCAGAGC
 CTCCTGAGCTGCTGCAGAACTACATACACCCAACCTATCTNCTCACCCGAACATCTG
 CCTTACTAAACTGGACCAGACTACGCTACCCTATAGACACCGGGGGCCANCCTGGC
 TTTCTGGAGATTGACACTTTCAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000456 unedited
 NNNNNNTTGGACTTGNACCGCGCCGCTATCTANGATCGGTTTTTTTTTTTTTTTTTTTGG
 GTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTCCAAAATACTTTTTTCACTTTTAAACCC
 TTGCTGTAACAACACTCACACTTTCTGGCACAAGTCAAAGGCCAAAAGAGGGTATGTAACA
 TAATGTCCAAAAGAGGAAAGGCCCTTGGGTGAAAAGGGCTATATGTGTACTTGGGTATGG
 CTTAAGAAAGCCAAAATTGTGATCCAAAATTGAAAGGGGGGAAAATTTTTCTGAAAC
 AATGAAGCTAATGGGTGGGGAAAAGGGTGAAGTGGCTCCTTTCCATGCTCATGGGGAAA
 CATAAACATGGACACCATGCCCGCATTGCTGAAAACACCTCGCAAGTTCAAAATTGGGG
 CCACCGGTCTGGCTGCACATTGTAACCATTATTCACAGCCTTACAAACAATGTTCAATT
 CCTTTTGTCCAACCTGGCACAAGGCTTTAACTGCCACAAACGCCATCCCAAGCCTTTC
 TGGGGCGCTGTTCTCTCATTCAACTTAACCACCTGCCAAGTTAAGCCCCATCCAAAG
 ACACATTCACCCGATCACAACCTGCCACCACCACTTCATGCATAACCCTTGATGGTCA
 CCTCCCCTGATTCTACAGTCTCTTCATTCCCGGCCTCTGTGATGGCCGACTTGACAAG
 AAATTCCTGAATTGGGAGGAGCCAAAATCCAAAATTTCAAGCTTCCCCATCCACACAAA
 TGGAAAGAAAACCTTTTTAATCCCCCGCGGTGGCCACATGGGTTTAAACCTTTCCTTCTG
 GGTGCACCCCTCACTCTTCCCCAGCCATTTTACCTATGGCCGGGCCACCCACCACTC
 TCCAGAATACCCCAACCCACACGGGAAACCTCTGTTCCCTCTCCAGAAGA

Restriction Sites:

NotI-NotI

ACCN:

NM_000456

Insert Size:

2260 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:	<ol style="list-style-type: none">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_000456.2 , NP_000447.2
RefSeq Size:	2564 bp
RefSeq ORF:	1638 bp
Locus ID:	6821
UniProt ID:	P51687
Cytogenetics:	12q13.2
Domains:	oxidored_molyb, heme_1, Mo-co_dimer
Protein Families:	Druggable Genome
Protein Pathways:	Sulfur metabolism
Gene Summary:	<p>Sulfite oxidase is a homodimeric protein localized to the intermembrane space of mitochondria. Each subunit contains a heme domain and a molybdopterin-binding domain. The enzyme catalyzes the oxidation of sulfite to sulfate, the final reaction in the oxidative degradation of the sulfur amino acids cysteine and methionine. Sulfite oxidase deficiency results in neurological abnormalities which are often fatal at an early age. Alternative splicing results in multiple transcript variants encoding identical proteins. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longest transcript.</p>