

Product datasheet for **SC107739**

MSRB3 (NM_198080) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MSRB3 (NM_198080) Human Untagged Clone
Tag:	Tag Free
Symbol:	MSRB3
Synonyms:	DFNB74
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107739 sequence for NM_198080 edited (data generated by NextGen Sequencing)

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ATGAGCCCGCGGGACCCTCCCGCCCCCTCTCGCTCTGCCTCTCCCTCTGCCTCTGC  
CTCTGCCTGGCCGCGGCTCTGGGAAGTGCAGTCCGGGTCGTGTAGGGATAAAAAGAAC  
TGTAAGGTGGTCTTTTCCAGCAGGAAGTGAAGGAGAAATACACACATCACAAAGT  
GTCACTCAGGAGAAAGGACCGAAAGTGCCTTTGAAGGAGAATACACACATCACAAAGT  
CCTGGAATATATAAATGTGTTGTTGTGGAAGTCCATTGTTAAGTCAGAAACCAATTT  
GACTCCGGTTCAGGTTGGCCTTCATTCCACGATGTGATCAATTCTGAGGCAATCACATTC  
ACAGATGACTTTTCCTATGGGATGCACAGGGTGGAAACAAGCTGCTCTCAGTGTGGTGT  
CACCTTGGGCACATTTTGTATGATGGGCTCGTCCAAGTGGGAAAAGATACTGCATAAAT  
TCGGCTGCCTTGTCTTTACACCTGCGGATAGCAGTGGCACC GCCGAGGGAGGCAGTGGG  
GTCGCCAGCCCGGCCAGGCAGACAAAGCGGAGCTCTAG
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Clone variation with respect to NM_198080.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_198080 unedited GCTCCGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCGGAGCCGGGGAGGGAGG GAGCGAGGTTTCGGACACCGGCGGCGGCTGCCTGGCCTTTCCATGAGCCCCGCGCGGACCC TCCCGCGCCCCCTCTCGCTCTGCCTCTCCCTCTGCCTCTGCCTCTGCCTGGCCCGGGCTC TGGGAAGTGCGCAGTCCGGGTCGTGTAGGGATAAAAAGAACTGTAAGGTGGTCTTTTCCC AGCAGGAACTGAGGAAGCGGCTAACACCCCTGCAGTACCATGTCACTCAGGAGAAAGGGA CCGAAAGTGCCTTTGAAGGAGAATACACACATCACAAAGATCCTGGAATATATAAATGTG TTGTTTGTGGAACCTCATTGTTTAAGTCAGAAACCAAATTTGACTCCGGTTCAGGTTGGC CTTCATTCCACGATGTGATCAATTCTGAGGCAATCACATTCACAGATGACTTTTCTATG GGATGCACAGGGTGGAAACAAGCTGCTCTCAGTGTGGTGTGCACCTGGGCACATTTTTG ATGATGGGCTCGTCCAAGTGGGAAAAGATACTGCATAAATTCGGCTGCCTTGTCTTTTA CACCTGCCGATAGCAGTGGCACCGCCCGAGGAGGAGTGGGGTCCGAGCCCGTCCAGG CAGACAAAGCGGAGCTCTAGAGTACTGGAGAGTGTGAAACAAAGCGACTTTATGCACA GCTTATTACAAAAACCACATTGTCCCCCCCCCCCCCTCTTTCCCCCCCCCCCCACCCC CACCAANACCACCCTCACTCTAAATGGGGCCCGGGCAATATTGTCCCTGAACAAACCC GGGGCGATCCCTGGGCCCCCTCCCAAGGCCCTTCTTGCCCTGGAGAGTGCCCTTCC GGCCCCCACCTTGG
Restriction Sites:	NotI-NotI
ACCN:	NM_198080
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:	<u>NM_198080.2</u> , <u>NP_932346.1</u>
RefSeq Size:	4242 bp
RefSeq ORF:	579 bp
Locus ID:	253827
UniProt ID:	<u>Q8IXL7</u>
Cytogenetics:	12q14.3

Gene Summary:

The protein encoded by this gene catalyzes the reduction of methionine sulfoxide to methionine. This enzyme acts as a monomer and requires zinc as a cofactor. Several transcript variants encoding two different isoforms have been found for this gene. One of the isoforms localizes to mitochondria while the other localizes to endoplasmic reticula. [provided by RefSeq, Jul 2010]

Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.