

Product datasheet for **SC127636**

MSRB2 (NM_012228) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MSRB2 (NM_012228) Human Untagged Clone
Tag:	Tag Free
Symbol:	MSRB2
Synonyms:	CBS-1; CBS1; CGI-131; MSRB; PILB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127636 sequence for NM_012228 edited (data generated by NextGen Sequencing)

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ATGGCGCGGCTCCTCTGGTTGCTCCGGGGCCTGACCCTCGGAAGTGCCTCGGGCGGGCG  
GTGCGGGGCCAAGCGGGCGGGCGGGCCCGGCACCGGGCCGGGACTGGGGGAGGCAGGG  
TCTCTTGCAACGTGTGAGCTGCCTCTTGCCAAGAGTGAGTGGCAAAGAACTAACCCCG  
GAGCAGTTCTACGTCACAAGAGAAAAGGGAACGGAACCGCCTTTCAGTGGGATCTACCTG  
AATAACAAGGAAGCAGGAATGTATCATTGCGTGTGCTGCGACAGTCCACTCTTCAGTTCT  
GAGAAAAAGTACTGCTCTGGCACTGGGTGGCCTTCGTTTTCCGAGGCTCATGGTACGTCT  
GGCTCTGATGAAAGCCACACAGGGATCCTGAGACGTCTGGATACCTCGTTAGGATCAGCT  
CGCACAGAGGTTGTCTGCAAGCAGTGTGAAGCTCATCTAGGTCACGTGTTTCCTGATGGA  
CCTGGGCCCAATGGTCAGAGTTTTGCATCAACAGTGTGGCTTTGAAGTTCAAACCAAGG  
AAACACTGA
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Clone variation with respect to NM_012228.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_012228 unedited</p> <pre> TTCAAATTTTGTAAACGACTTCACTATAGGGCGGCCGCGATTTCGGCACGAGGGTGGGAT GGGAGCAGGGGCAGAGACGGGCAGAGGGCAGAGGGCGGAGCGGCCCGGAGCGGGCGTCA TGGCGCGGCTCCTCTGGTTGCTCCGGGGCTGACCCTCGGAACGCGCCTCGGCGGGCGG TGCGGGGCCAAGCGGGCGGGCGGGCCCGGCACCGGGCCGGGACTGGGGGAGGCAGGGT CTCTTGCAACGTGTGAGCTGCCTCTTGCCAAGAGTGTAGTGGCAAAGAACTAACCCCGG AGCAGTTCTACGTCACAAGAGAAAAGGGAACGGAACCGCCTTTCAGTGGGATCTACCTGA ATAACAAGGAAGCAGGAATGTATCATTGCGTGTGCTGCGACAGTCCACTTTCAGTCTG AGAAAAAGTACTGCTCTGGCACTGGGTGGCCTTCGTTTTCCGAGGCTCATGGTACGCTG GCTCTGATGAAAGCCACACAGGGATCCTGAGACGTCTGGATACCTCGTTAGGATCAGCTC GCACAGAGGTTGTCTGCAAGCAGTGTGAAGCTCATCTAGGTCACGTGTTTCCTGATGGAC CTGGGCCCAATGGTCAGAGGTTTTGCATCAACAGTGTGGCTTTGAAGTTCAAACCAAGGA AACACTGACCATTTCAAGAGTCCCGTTCCTTGCCACCCTTCACGTGCACCCTCAATT TCCACAATCACTTGAATGACTTGTATTTATTTGCATAAACTGGGCTGAATTTGAAAAA AAAAAAAACCTCGCTCTAGATTGCGCCGCTCATAGCTGTTCTGAACGATCCCGGTGGC ATCCTGTGACCCCTCCCATGCCTTCCTGCCCTGGAGTGCCATNCATGCCACANCCTGTC TATAAATAAGT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_012228 unedited</p> <pre> CGCGGCACGCAATCTAGTGTGAGTTTTTTTTTTTTTTTTTTTCAAATTCAGCCATTTTT ATTGCAAATAAAACAAGTCAATCAAGTGAATTGTGAAATTGAGGGTGCACGTGAAGGGG TGGCAAGGGAACGGGACTCTTGAAGATGGTCAGTGTTCCTTGGTTTGAACCTCAAAGCC ACACTGTTGATGCAAAACCTCTGACCATTGGGCCAGGTCCATCAGGAAACACGTGACCT ATATGAGCTTCACTGCTTGCAGACAACCTCTGTGCGAGCTGATCCTAACGAGGTATCC AGACGTCTCAGGATCCCTGTGTGGCTTTCATCAGAGCCAGACGTACCATGAGCCTCGAA AACGAAGGCCACCAGTGCCAGAGCAGTACTTTTTCTCAGAACTGAAGAGTGGACTGTGC CAGCACACGCAATGATACATTCCTGCTTCTTGTATTAGGTAGATCCCACTGAAAGGC GGTTCCGTTCCCTTTCTCTTGTGACGTAACCTGCTCCGGGGTAGTTTCTTTTGCCAC TCACTCTTGGCAAGAGGCAGCTCACACGTTGCAAGAGACCCTGCCTCCCCAGTCCCGG CCGGTGCCGGGCCCGCCCGCCCGCTTGCCCGTACCAGCCCGGAGGCGCATTTCGG AGGGTCAGGCCCGTAGCAACCAGAGAGCCGCGCCATGACGCCCGCTCCGGNGCCGTTT ACGCCTCTGCCCTCTGCGTCTCTGCCCTGCTNCCATCCACCCTCGTGCCGAATTCGCG GCCGCCCTATAGTGAGTCGTATTACAAAATCTGACGTTCACTANACGACCTCTGCTTTT AGACCTNCCACCCTAACGCCTACCGCCATTTGCGTAACGGGCGGGTTTTTACACCTTTGG AAAGCCCGTGTGTTGTGGCAAACAACCTCCATGGAGGA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_012228
Insert Size:	770 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_012228.2](#), [NP_036360.2](#)

RefSeq Size: 903 bp

RefSeq ORF: 606 bp

Locus ID: 22921

UniProt ID: [Q9Y3D2](#)

Cytogenetics: 10p12.2

Domains: SelR

Protein Families: Transcription Factors

Gene Summary: Methionine-sulfoxide reductase that specifically reduces methionine (R)-sulfoxide back to methionine. While in many cases, methionine oxidation is the result of random oxidation following oxidative stress, methionine oxidation is also a post-translational modification that takes place on specific residue. Upon oxidative stress, may play a role in the preservation of mitochondrial integrity by decreasing the intracellular reactive oxygen species build-up through its scavenging role, hence contributing to cell survival and protein maintenance. [UniProtKB/Swiss-Prot Function]