

## Product datasheet for **RN212960**

### **Msrb2 (NM\_001031660) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Msrb2 (NM\_001031660) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Msrb2  
**Synonyms:** Mrsb  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN212960 representing NM\_001031660  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCGCGTCTGCTGCGAGCGCTGCGGGTCTGCCTTGGCTGGAGGCGCCTGGGCGAGCTCGGGTTGCG  
CGGGATCGGGACGCGGGACACAGGGTCTCTTATCAAGTCCAAGCTCTCTAAGCAAGGCAGACTGGCA  
GAAGAACTGACCCCTGAGCAATTCTACGTCACCAGAGAGAAAGGAAGTGAAGCGCCTTTCAGTGGAAATG  
TATTTGAAAAACAAGGAGACAGGGATGTACCATTGCGTGTGCTGTGATAGCCCACTTTCAGTCTGAGA  
AGAAGTACTGTTCTGGCACCGGTTGGCCTTCGTTTTCTGAGGCTCACGGCACAAAGGCTCAGATGAAAG  
TCACACAGGGATCCTGAGGCGCCTGGACTTCCTTAGGATGTCCTCGCATGGAGGTGGTCTGCAACAG  
TGTGAAGCTCACCTTGGCCATGTGTTTCTGATGGACCCGATCCCACTGGACAAAGGTTTTGCATCAACA  
CGGTGGCCCTGAAGTTCAAACCAAGCAAGCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001031660  
**Insert Size:** 525 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).



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001031660.1</a></u> , <u><a href="#">NP_001026830.1</a></u>
<b>RefSeq Size:</b>	1168 bp
<b>RefSeq ORF:</b>	525 bp
<b>Locus ID:</b>	361286
<b>UniProt ID:</b>	<u><a href="#">Q4FZX5</a></u>
<b>Cytogenetics:</b>	17q12.3
<b>Gene Summary:</b>	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]