

## Product datasheet for **MC201973**

### Msrb2 (NM\_029619) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Msrb2 (NM\_029619) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Msrb2  
**Synonyms:** 2310050L06Rik; Mrsb; Msrb; Pilb  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC021619 sequence for NM\_029619  
GGTGGGGGTTGGGTAGGCTTGGGAGGAAACCCGTTGGTGGCAGCGTCATGGCGGACTGCTGCGAGCGCT  
GCGGGGTTGCCTTTGCTGCAGGCGCTGGACGGCTGGCTCGGGGTTGCGCGGGATCGGGAAGCAAGGAC  
ACAGGGTCTCTTACAAAGTCCAAGCGCTCTCTAAGCGAAGCAGACTGGCAGAAGAACTGACCCCGAAC  
AGTTCTATGTCACCAGAGAGAAAGGAACTGAAGCGCCTTTCAGTGAATGTATTTGAACAACAAGGAGAC  
AGGGATGTACCATTGTGTGTGCTGTGATAGCCACTCTTCAGTTCTGAGAAGAAGTACTGTTCTGGCACC  
GGCTGGCCTTCATTTCTGAGGCTTACGGCTCAAAGGCTCAGATGAAAGTCACACAGGGATCCTGAGAC  
GACTGGACTTCCTTAGGATGTCCTCGCATGGAGGTGGTCTGCAAGCAGTGTGAAGCTCACCTGGCCA  
TGTGTTTCCTGATGGACCAAGCCACTGGCCAAAGGTTTGCATCAACAGTGTGGCCCTGAAGTTCAAA  
CCCAGCAAGCCCTGACTGTTTGCAGGAGGCTGTGTTTTGCCCTTCCTTGTGGAGCCTTGGTTCTGTAAC  
TCGGATGGATGCCTTGCTTTATGTACTGAAGGCTTAGGTGAAGGTTGTTACTGGCCACAGGGGAATCACA  
GCTTCTTAGTCACCTGAAAGCAACTCAACTGACTTCCGCTTGGCCATGGGATTTCAATTGGCTGCCAA  
GGCTTCGGGTGAGACCACAGGTTGGGACCTAGGCAGGATTTCCACAGGTTTCGTGGACTGACGAGGGTCCC  
TAAAGCCTCTGAAGGGAACCTGAGTTGCCATCTCCATTCATTTCTCATGGATGTACACAGATGAGGGC  
TCAGGGGGAAGAGAAAAGAGATGGGCTGGAACAGATGAGAGATGAGAGATCCCAGTGTGAAAGAGGAGGA  
CAAAGTAGCCGAGCATGGGACACACATACCCATGATGATATAATGGATGAAACTTGTGGCTTCTTATCCA  
AACTCCACTGACTCAGCCTTACAACACACAGCTGGGATCCATGTGAATTGAGTGAATTTAGCGACTAC  
GACAATGCTCTCCTTCTTTCTTTGTTACAGCACTAAACTTCAAATATTAATAAAAATATTGAGATCAA AAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_029619  
**Insert Size:** 528 bp



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<b>OTI Disclaimer:</b>	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).
<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="#">BC021619</a></u> , <u><a href="#">AAH21619</a></u>
<b>RefSeq Size:</b>	1204 bp
<b>RefSeq ORF:</b>	528 bp
<b>Locus ID:</b>	76467
<b>UniProt ID:</b>	<u><a href="#">Q78J03</a></u>
<b>Cytogenetics:</b>	2 A3
<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]