OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR201534

Msrb2 (NM_029619) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Msrb2 (NM_029619) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Msrb2
Synonyms:	2310050L06Rik; Mrsb; Msrb; Pilb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR201534 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCGACTGCTGCGAGCGCTGCGGGGTCTGCCTTTGCTGCAGGCGCCTGGACGGCTGGCTCGGGGTT
GCGCGGGATCGGGAAGCAAGGACACAGGGTCTCTTACAAAGTCCAAGCGCTCTCTAAGCGAAGCAGACTG
GCAGAAGAAACTGACCCCGGAACAGTTCTATGTCACCAGAGAGAAAGGAACTGAAGCGCCTTTCAGTGGA
ATGTATTTGAACAACAAGGAGACAGGGATGTACCATTGTGTGTGCTGTGATAGCCCACTCTTCAGTTCTG
AGAAGAAGTACTGTTCTGGCACCGGCTGGCCTTCATTTTCTGAGGCTTACGGCTCAAAAGGCTCAGATGA
AAGTCACACAGGGATCCTGAGACGACTGGACACTTCCTTAGGATGTCCTCGCATGGAGGTGGTCTGCAAG
CAGTGTGAAGCTCACCTTGGCCATGTGTTTCCTGATGGACCCAAGCCCACTGGCCAAAGGTTTTGCATCA
ACAGTGTGGCCCTGAAGTTCAAACCCAGCAAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR201534 protein sequence
Red=Cloning site Green=Tags(s)

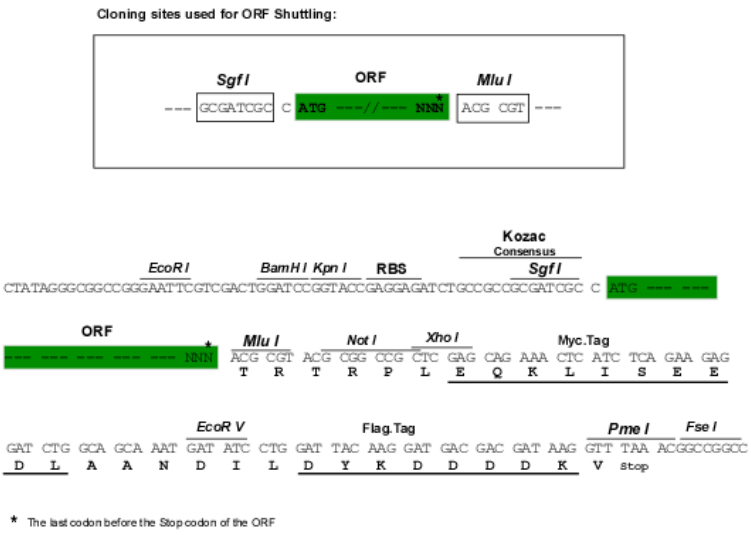
MARLLRALRGLPLLQAPGRLARGCAGSGSKDTGSLTKSKRSLSEADWQKKLTPEQFYVTREKGTEAPFSG
MYLNNKETGMYHCVCCDSPLFSSEKKYCSGTGWPSFSEAYGSKGSDESHTGILRRLDTSLGCPRMEVVCK
QCEAHLGHVFPDGPKPTGQRFCINSVALKFKPSKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



ACCN: NM_029619

ORF Size: 528 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_029619.2, NP_083895.1

RefSeq Size: 1204 bp

RefSeq ORF: 528 bp

Locus ID: 76467

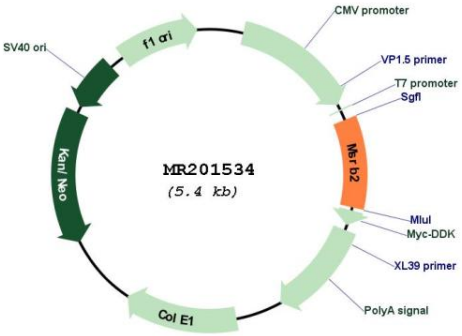
UniProt ID: Q78J03

Cytogenetics: 2 A3

MW: 19.2 kDa

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]

Product images:



Circular map for MR201534