

Product datasheet for **MR207186**

Sqor (NM_021507) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sqor (NM_021507) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sqor
Synonyms:	0610039J17Rik; 4930557M22Rik; SQOR; Sqrdl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR207186 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCCACTGGTCGCTGTTGTCTCCAGTCCACGTGCCCGGCTCTTTGCCTGTTTCCTTAGGCTGGGCA
 CTCAGCAGGCTGGACCCCTCCAATTGCATACAGGAGCCTGCTGCACAGCCAAGAACCACTATGAGGTGCT
 GGTACTTGGTGGGGAGCTGGGGGATCACCATGGCCACTCGAATGAAGAGGAGAGTTGGAGCAGAGAAT
 GTGGCCATTGTTGAACCCAGTGAGAGGCACTTCTACCAGCCAATCTGGACACTAGTGGGCGCGGTGCCA
 AAGAGTTGCTTGTGAGTCCGTTCCACACTGAGTGTGATTCCATCCGGAGTGCAGTGGATTCAAGATAG
 AGTGGCGGAACTGAACCCAGACGAGAAGTGTATCCGCACAGACAGTGGCAAGGAGATCTCTACAGATAC
 CTTATCATCGCTCTTGAATCCAGCTGGACTATGAGAAGATTAAGGACTACCTGAAGGCTTTGCTTATC
 CCAAAATAGGGTCCAATTACTCAGTGAAGACAGTGGAGAAGACATGGAAGGCCCTGCAGGATTTCAAGGA
 AGGCAATGCCCTTTTACCTTCCAAACACTCCGGTGAAGTGTGCTGGTCCCCCAGAAGATCATGTAC
 CTATCAGAAGCCTACTTCAGGAAGACTGGAAGCGACCCAAGGCAACATCATCTTCAACACAGCTTTAG
 GAACAATTTTGGAGTTAAGAAGTATGCAGATGCCTTGCAGGAGATCATTCCGGGAGAGGGACGTCTCTGT
 CAACTATAAGCACAACCTTATTGAGGTCCGACCTGACAAACAGGAGGCCGTTTTTGGAGTCTCTGGACAAG
 CCTGGGGAGACGCATGTGATTCTTATGAAATGCTTCATGTACACACCACCTATGAGTGCACCAGATGTCC
 TCAAGAGGAGTCTGTGGCTGATTCTGCTGGCTGGGTGGACGTGGACAAAGAGACTCTGCAGCATAAGAA
 ATACCCGAATGTGTTTGGCATTGGGGACTGCACCAATCTTCAACTTCAAAGACTGCTGCTGCAGTAGCT
 GCCCAGTCTGGAATCCTTGATAGAACAATGTGTCTGATTATGAAGAACCAAGACCCATAAAAAAGTATG
 ATGGTTATACCTCGTGGCCACTGGTAACCTGGCTACAACCGAGTGATTCTTGCTGAGTTTGACTACACAGC
 TCAGCCCCTGGAACCTTCCCTTTTGATCAGAGTAAAGAGCGAATTACTATGTACCTAATGAAGGCTGAC
 ATGATGCCATTCTGTACTGGAATATGATGCTCAGAGGCTACTGGGAGGTCCAGCCTTCTTGCAGAAAGC
 TGTTTCATCTGGGCATGAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207186 protein sequence
 Red=Cloning site Green=Tags(s)

MAPLVAVVSSPRARLFACFLRLGTQQAGPLQLHTGACCTAKNHYEVLVLGGGAGGITMATRMKRRVGAEN
 VAIVEPSEHFYQPIWTLVGAGAKELSLSVRSTLSVIPSGVQWIQDRVAELNPDENCIRTDGKEISYRY
 LIIALGIQLDYEKIKGLPEGFAYPKIGSNYSVKTEKTKALQDFKEGNALFTFPNTPVKCAGAPQKIMY
 LSEAYFRKTGKRPKANIIFNALGTIFGVKKYADALQEIIREDVSVNYKHNLIEVRPDQAEAVFEILDK
 PGETHVIPYEMLHVTPPMSAPDVLKRSPVADSAGWVDVDKETLQHKYPNVFGIGDCTNLPTSKTAAAVA
 AQSGILDRTMCLIMKNRPIKKYDGYTSCPLVTGYNRVILAEDFYTAQPLETFPFDQSKERITMYLMKAD
 MMPFLYWNMLRGYWGGPAFLRKLFLHGMN

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_021507

ORF Size: 1350 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_021507.1](#), [NM_021507.2](#), [NM_021507.3](#), [NM_021507.4](#), [NM_021507.5](#), [NP_067482.3](#)

RefSeq Size: 1995 bp

RefSeq ORF: 1353 bp

Locus ID: 59010

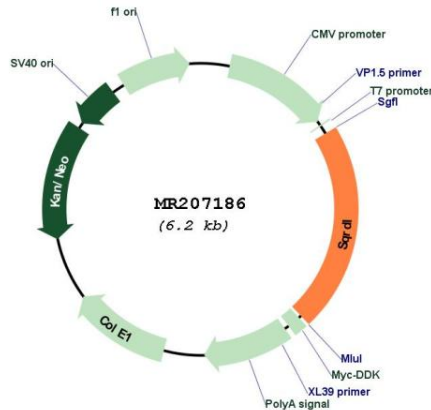
UniProt ID: [Q9R112](#)

Cytogenetics: 2 E5

MW: 50.3 kDa

Gene Summary: Catalyzes the oxidation of hydrogen sulfide with the help of a quinone, such as ubiquinone, giving rise to thiosulfate and ultimately to sulfane (molecular sulfur) atoms. Requires an additional electron acceptor; can use sulfite, sulfide or cyanide (in vitro).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207186