

Product datasheet for **MR208297**

Sars2 (NM_023637) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sars2 (NM_023637) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sars2
Synonyms:	2410015F05Rik; D7Ertd353e; SerRS; SerRSmt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208297 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGCGTCCATGGCGCGCTTTGGTGGCCTTCTCGCTCGCAGGGGCTCCGGTCCCAGGACGCT
 GCGTGTGCAGCCAGAACCAAGGAGGAGTTTCGCTACGGAGAAACGAGTCCGGAACCTCCTGTACGAACA
 CGCAGCAGAGGGCTACAGCGAGCTTCCCTACTTGGACATGGAGTCGGTGTGCGCATGCCAGAAAAAGCC
 GCGCGCTCCCTGGAGCTCCGCAAGGGGGAGCTGCGGCCGGCCGACCTGCCTGCGATTATCTCCACGTGGC
 AGGAGTTGAGGCAGTTCGAGAGCAGATCCGGAGCCTGGAGGCAGAGAAGGAGGCTGTGGCAGAGGCAGT
 GCGGGCCCTGCTGGCAAACCAAGACAGTGACCAAGTGCAGAAGGACCCCAATATCAGGGCTCGGGCC
 CGAGGCCGGGAGATCCGGAAGCAGCTCACACCCTTGTACCCCAAGAGACCCAGCTAGAGGAGCAGCTGT
 ACCAGCAGGCACTGAGGCTGCCAACCCAGACCCACCCAGACACGCTGTGGGGGACGAGACCCAGGCTAG
 AGTGGTCCGTGTGGTGGGTGAAAAGCCGGCTTTCTCCTTCCAACCCGAGGCCACCTGGAATTGGCGAG
 AAAGTGGACATCATCCGGCAGAAGCGCCTGTCTACGTGTCTGGCCACCGGTCTATTACCTGCGTGGGG
 CAGGAGCCCTTTACAGCACGGCCTGGTCAACTTACCCTCAGCAAGCTTGTGAGCAGGGGCTTACCC
 CATGACGGTCCCAGACCTTCTGAGAGGAGCTGTGTTTGAAGGCTGTGGAATGACACCAAATGCCAACCA
 TCCCAGATTTACAATATTGACCCCTCTCGCTTCGAAGACCTTAACCTGGCCGGGACGGCAGAGGTGGGGC
 TGGCAGGATACTTCATGGACCACTCTGTAGCTTTCAGGGACCTTCCAGTCAGGATGGTCTGTGCCAGCAC
 CTGCTACCGGGCAGAGACAGACTGGGAAGGAGCCTTGGGGACTGTACCGAGTCCATCACTTACTAAG
 GTGGAGATGTTTGGGGTACAGGCCCTGGGCTGGAGCAGAGCTCGCAGCTGTTGGATGAGTTCTGTCTC
 TGCAGTGGAGATCTTGACGGAGCTGGGCTTGCACCTCCGGGACTGGACATGCCACCCAGGAACTGGG
 CCTTCTGCTTATCGCAAGTTCGACATTGAGGCCTGGATGCCTGGCCGAGGCCGCTATGGAGAGGTCACC
 AGTGCCTCCAAGTGCACAGACTTCCAGAGCCGCCCTGTACATCATGTTTGGAGCAGAGACCGGGGAGC
 TGCAGTTCGCACACCGGTGAATGCCACCGCTTGTGCTGTTCCCGAGTCCCTATTGCCCTCCTGGAAAG
 CAATCAGCAAAGGATGGTTTCAGTCTCGTCCCGCCGCTCTCCAGCCCTACCTAGGCACGGACCGGATC
 ACAGCCCTACCCATGTGCCTCTCCAGTACATCGGCCCAATCAGCCTCAGAAGCCAGGCTCCCGGCC
 AGTCTGCCACCAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208297 protein sequence
 Red=Cloning site Green=Tags(s)

MAASMARLWPFARQGLRSRGRVCSQNPRRSFATEKVRNLLYEHAREGYSELPYLDMESVCACPEKA
 ARSLELRKGLRPADLPAIISTWQELRQLREQIRSLAEKEAVAEAVRALLANQSDQVQKDPQYQGLRA
 RGREIRKQLTPLYPQETQLEEQLYQALRLPNQTHPDTPVGDESQARVVVRVVEKPAFSFQPRGHLEIGE
 KLDIIRKRLSHVSGHRSYYLRGAGALLQHGLVNFVTLVSRGFTPMTVPDLLRGAVFEGCGMTPNANP
 SQIYNIDPSRFEDLNLAGTAEVGLAGYFMDHSAVFRDLVPRMVCSTCYRAETDTGKEPWGLYRVHHTK
 VEMFGVTGPGLEQSSQLLDEFLSLQVEILTELGLHFRVLDMPQTQELGLPAYRKFDIEAWMPGRGRYGEVT
 SASNCTDFQSRRLYIMFETETGELQFAHTVNATACAVPRVLIALLESNQKDGSVLPAALQPYLGTDRIT
 TAPTHVPLQYIGPNQPKPRLPGQSATR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_023637

ORF Size: 1557 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_023637.3](#)

RefSeq Size: 1910 bp

RefSeq ORF: 1557 bp

Locus ID: 71984

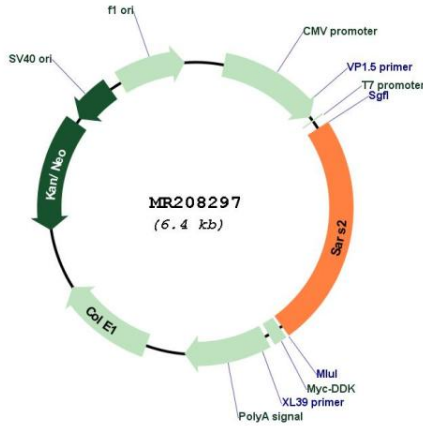
UniProt ID: [Q9JLL8](#)

Cytogenetics: 7 16.91 cM

MW: 58.3 kDa

Gene Summary: Catalyzes the attachment of serine to tRNA(Ser). Is also probably able to aminoacylate tRNA(Sec) with serine, to form the misacylated tRNA L-seryl-tRNA(Sec), which will be further converted into selenocysteinyl-tRNA(Sec).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208297