

Product datasheet for **MC217577**

Sars (NM_011319) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sars (NM_011319) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sars
Synonyms:	Sars1; serRS; Strs
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217577 representing NM_011319
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGTCTGGACCTGGATTTGTTTCGGGTGGATAAAGGAGGGACCCAGCCCTCATTTCGAGAGACGCAGG
AGAAGCGCTTCAAGGACCGGGGCTGGTGGACCAGCTGGTGAAAGCAGACAGTGAGTGGCGACGATGCAG
ATTTCCGGCAGACAACCTGAACAAGCTGAAGAATTTATGCAGCAAACTATTGGGGAGAAAATGAAGAAA
AAGGAAGCAGTGGGAGACGACGAGTCCGTCAGAGAACGTGCTGAATTCGATGACCTCACTGCAGACG
CGCTAGCTGCCCTGAAAGTCTCACAGATTAAGAAAGTCCGACTCCTCATTGATGAAGCCATCCAGAAGTG
TGATGGGAGCGGGTAAAGCTGGAAGCAGAGCGATTTGAGAACCTCCGCGAGATTGGGAACCTTCTGCAC
CCCTCTGTGCCATTAGTAATGATGAGGACGCAGACAACAAGTAGAACGATTTGGGGAGATTGTACAG
TCAGGAAGAAGTATCCCATGTGGACCTGGTGGTATGGTAGATGGCTTTGAAGGCGAAAAGGGAGCCGT
GGTGGCTGGTAGTCGGGGTACTTCTGAAGGGGCCCTGGTGTCTCGAGCAGGCGCTTATCCAATAT
GCACTGCTACCTTGGGAGTCGGGGCTACACTCCAATCTACACCCCTTCTTCATGAGGAAAGAGGTCA
TGCAGGAAGTGGCCAGCTCAGCCAGTTTATGTAAGAATTTATGAGGTATTGGCAAAGGCAGCGAAAA
GTCAGATGACAACCTCTATGACGAGAACTTGTATTGCCACCTCAGAGCAGCCCATCGCGGCTCTGCAC
CGGGACGAGTGGCTGCGGCCAGAGGATCTGCCATCAAGTACGCTGGCCTCTCCACCTGCTTTCGTCAGG
AAGTGGGCTCGCATGGCCGTGACACCCGTGGTATCTTCCGAGTCCATCAGTTTGAGAAGATTGAGCAGTT
TGTGTACTCATCGCCCCATGACAATAAGTCGTGGGAGATGTTTGATGAGATGATCGCCACCGCAGAAGAA
TTCTACAGTCTTTGGGGATCCCTTACCACATTGTGAATATTGTCTCAGGCTCCTTGAATCACGCTGCCA
GTAAGAAGCTCGACCTGGAGGCCTGGTCCCAGGCTCGGGTGCCTCCGTGAGTTGGTGTCTGTTCTAA
TTGCACGGATTACCAAGCTCGCCGCTGAGAATCCGATATGGGCAGACCAAGAAGATGATGGACAAGAAA
AAGAATAATCTCCGTTTCTACACAGAACAAGTTGAAGCAATGTCTTCCCTCTTTTCGCCAAGAAGG
TGGAGTTTGTCCATATGCTTAATGCTACAATGTGTGCTACCACCCGGACCATCTGCGCCATCCTGGAGAA
CTACCAGGCAGAGAAGGGCATCGCTGTGCCAGAGAAGTTGAGGGAGTTCATGCCGCCAGGGCTCCAAGAG
CTGATCCCGTTTGTGAAGCCTGCACCCATTGACCAGGAGCCATCTAAGAAGCAGAAGAAGCAACATGAAG
GCAGCAAAAAGAAAGCGAAAGAGGTCCCCCTGGAGAACCAGCTGCAGAGCATGGAGGTCACTGAGGCCTG
A

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_011319

Insert Size: 1611 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).

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_011319.3](#), [NP_035449.1](#)

RefSeq Size: 3704 bp

RefSeq ORF: 1611 bp

Locus ID: 20226

Cytogenetics: 3 47.08 cM

Gene Summary: Catalyzes the attachment of serine to tRNA(Ser) in a two-step reaction: serine is first activated by ATP to form Ser-AMP and then transferred to the acceptor end of tRNA(Ser). Is probably also 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). In the nucleus, binds to the VEGFA core promoter and prevents MYC binding and transcriptional activation by MYC. Recruits SIRT2 to the VEGFA promoter, promoting deacetylation of histone H4 at 'Lys-16' (H4K16). Thereby, inhibits the production of VEGFA and sprouting angiogenesis mediated by VEGFA.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).