

Product datasheet for **MC228113**

Sars (NM_001204979) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sars (NM_001204979) 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: >MC228113 representing NM_001204979
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCTGGACCTGGATTTGTTTCGGGTGGATAAAGGAGGGACCCAGCCCTCATTTCGAGAGACGCAGG
 AGAAGCGCTTCAAGACCCGGGCTGGTGGACCAGCTGGTAAAAGCAGACAGTGAGTGGCGACGATGCAG
 ATTTCCGGCAGACAACCTGAACAAGCTGAAGAATTTATGCAGCAAACTATTGGGGAGAAAATGAAGAAA
 AAGGAAGCAGTGGGAGACGACGAGTCCGTCCCAGAGAACGTGCTGAATTCGATGACCTCACTGCAGACG
 CGCTAGCTGCCCTGAAAGTCTCACAGATTAAGAAAGTCCGACTCCTCATTGATGAAGCCATCCAGAAGTG
 TGATGGGAGCGGGTAAAGCTGGAAGCAGAGCGATTTGAGAACCCTCCGCGAGATTGGGAACCTTCTGCAC
 CCCTCTGTGCCATTAGTAATGATGAGGACGCAGACAACAAGTAGAACGATTTGGGGAGATTGTACAG
 TCAGGAAGAAGTATCCCATGTGGACCTGGTGGTATGGTAGATGGCTTTGAAGGCGAAAAGGGAGCCGT
 GGTGGCTGGTAGTCGGGGTACTTCTGAAGGGGCCCTGGTGTCTCGGAGCAGGCGCTTATCCAATAT
 GCACTGCTACCTTGGGAGTCGGGCTACACTCCAATCTACACCCCTTCTTCATGAGGAAAGAGGTCA
 TGCAGGAAGTGGCCAGCTCAGCCAGTTTATGAAAGTATTGAAAGTATTGAAAGTATTGAAAGTATTGAAAGT
 GTCAGATGACAACTCCTATGACGAGAACTTACTGATTGCCACCTCAGAGCAGCCCATCGCGGCTCTGCAC
 CGGGACGAGTGGCTGCGGCCAGAGGATCTGCCATCAAGTACGCTGGCCTCTCCACCTGCTTTCGTCAGG
 AAGTGGGCTCGCATGGCCGTGACACCCGTGGTATCTTCCGAGTCCATCAGTTTGAGAAGATTGAGCAGTT
 TGTGTACTCATCGCCCCATGACAATAAGTCGTGGGAGATGTTTGATGAGATGATCGCCACCCGAGAAGAA
 TTCTACAGTCTTTGGGGATCCCTTACCACATTGTAATATTGTCTCAGGCTCCTGAATCAGCTGCCA
 GTAAGAAGCTCGACCTGGAGGCTGGTCCCAGGCTCGGGTGCCTCCGTGAGTTGGTGTCTCTGTTCTAA
 TTGCACGGATTACCAAGCTCGCCGCTGAGAATCCGATATGGGCAGACCAAGAAGATGATGGACAAGGTG
 GAGTTTGTCCATATGCTTAATGCTACAATGTGTGCTACCACCCGACCATCTGCGCCATCTGGAGAAT
 ACCAGGCAGAGAAGGGCATCGCTGTGCCAGAGAAGTTGAGGGAGTTCATGCCGCCAGGGCTCCAAGAGCT
 GATCCCGTTTGTGAAGCTGCACCCATTGACCAGGAGCCATCTAAGAAGCAGAAGAAGCAACATGAAGGC
 AGCAAAAAGAAAGCGAAAGAGGTCCCTGGAGAACCAGCTGCAGAGCATGGAGTCACTGAGGCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001204979
- Insert Size:** 1539 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001204979.1](#), [NP_001191908.1](#)

RefSeq Size: 3632 bp

RefSeq ORF: 1539 bp

Locus ID: 20226

UniProt ID: [P26638](#)

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 (2) lacks an in-frame exon in the 3' coding region, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.