

Product datasheet for **MR220183**

Sars (NM_011319) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR220183 representing NM_011319
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCTGGACCTGGATTTGTTTCGGGTGGATAAAGGAGGGACCCAGCCCTCATTTCGAGAGACGCAGG
 AGAAGCGCTTCAAGGACCCGGGCTGGTGGACCAGCTGGTGAAAGCAGACAGTGAGTGGCGACGATGCAG
 ATTTCCGGCAGACAACCTGAACAAGCTGAAGAATTTATGCAGCAAACTATTGGGAGAAAAAAGAGAAA
 AAGGAAGCAGTGGGAGACGACGAGTCCGTCAGAGAACGTGCTGAATTCGATGACCTCACTGCAGACG
 CGCTAGCTGCCCTGAAAGTCTCACAGATTAAGGAGTCCGACTCCTCATTGATGAAGCCATCCAGAAGTG
 TGATGGGAGCGGGTAAAGCTGGAAGCAGAGCGATTTGAGAACCTCCGCGAGATTGGGAACCTTCTGCAC
 CCCTCTGTGCCATTAGTAATGATGAGGACGCAGACAACAAGTAGAACGATTTGGGGAGATTGTACAG
 TCAGGAAGAAGTATCCCATGTGGACCTGGTGGTATGGTAGATGGCTTTGAAGGCGAAAAGGGAGCCGT
 GGTGGCTGGTAGTCGGGGTACTTCTGAAGGGCCCTGGTGTCTCGAGCAGGCGCTTATCCAATAT
 GCACTGCTACCTTGGGAGTCGGGGCTACACTCCAATCTACACCCCTTCTTCATGAGGAAAGAGGTCA
 TGCAGGAAGTGGCCAGCTCAGCCAGTTTATGAGAACTTTATAAGGTGATTGGCAAAGGCAGCGAAAA
 GTCAGATGACAACTCCTATGACGAGAAACTTGTATTGCCACCTCAGAGCAGCCATCGCGGCTCTGCAC
 CGGGACGAGTGGCTGCGGCCAGAGGATCTGCCATCAAGTACGCTGGCCTCTCCACCTGCTTTCTGCAGG
 AAGTGGCTCGCATGGCCGTGACACCCGTGGTATCTTCCGAGTCCATCAGTTTGAGAAGATTGAGCAGTT
 TGTGACTCATCGCCCCATGACAATAAGTCGTGGGAGATGTTTGTGATGAGATGATCGCCACCCGAGAAGAA
 TTCTACAGTCTTTGGGGATCCCTTACCACATTTGAATATTGTCTCAGGCTCCTGAATACGCTGCCA
 GTAAGAAGCTCGACCTGGAGCCCTGGTCCCAGGCTCGGGTGCCTCCGTGAGTTGGTGTCTGTTCTAA
 TTGCACGGATTACCAAGCTCGCCGCTGAGAATCCGATATGGGCAGACCAAGAAGATGATGGACAAGAAA
 AAGAATAATCTCCGTTTCTACACAGAACAAGTTGAAGCAATGTCTTCCCTTTTTCGCCCAAGAAGG
 TGGAGTTTGCCATATGCTTAATGCTACAATGTGTGCTACCACCCGACCATCTGCGCCATCTGGAGAA
 CTACCAGGAGAGAAGGGCATCGCTGTGCCAGAGAAGTTGAGGGAGTTCATGCCGCCAGGGCTCCAAGAG
 CTGATCCCGTTTGTGAAGCCTGCACCCATTGACCAGGAGCCATCTAAGAAGCAGAAGAAGCAACATGAAG
 GCAGCAAAAAGAAAGCGAAAGAGGTCCCTCGGAGAACCGCTGCAGAGCATGGAGTCACTGAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220183 representing NM_011319
 Red=Cloning site Green=Tags(s)

MVLDLDFRVKGGDPALIRETQEKRKFDPLVDQLVKADSEWRRRCFRADNLNKLKLNCSKTIGEKMKK
 KEAVGDDESVPENVLNFDLADALAAALKVSIKKVRLIDEAIIQKCDGERVKLEAERFENLREIGNLLH
 PSVPISNDEDADNKVERIWDCTVRKKYSHVDLVVMVDGFEGEKAVVAGSRGYFLKGPLVFLEQALIQY
 ALRTLGSRGYTPITYPPFMRKEVMQEVQQLSQFDEELYKVIKGGSEKSDDNSYDEKYL IATSEQPIAALH
 RDEWLRPEDLPKYAGLSTCFRQEVGSHGRDRGIFRVHQFEKIEQFVYSSPHDNKSWEMFDEMIATAEE
 FYQSLGIPYHIVIVSGSLNHAASKKLDLEAWFPGSGAFRELVSCSNCTDYQARRLRIRYGQTKKMMDDK
 KNNLRFSTQNKLKAMSSLFSPKKVEFVHMLNATMCATTRTICAI LENYQAEKGIAPPEKREFMPPGLQE
 LIPFVKPAPIDQEPSKKQKQHEGSKKAKEVPLENQLQSMEVTEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9076_b10.zip

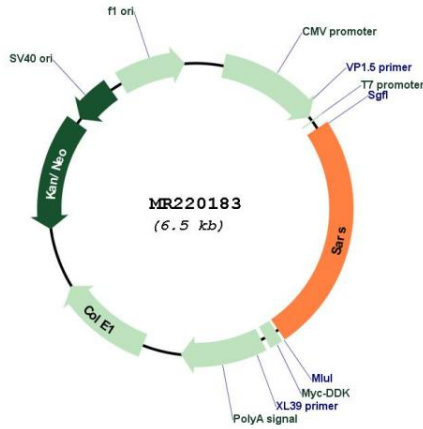
Restriction Sites:

Sgfl-MluI

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]

Product images:



Circular map for MR220183