

Product datasheet for **RC228425**

SARS2 (NM_001145901) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SARS2 (NM_001145901) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SARS2
Synonyms:	mtSerRS; SARS; SARSM; SerRS; SerRSmt; SERS; SYS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC228425 representing NM_001145901
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCGTCCATGGCGCGCGCTTGTGGCCTTTGCTGACTCGTCGGGGTTCCGGCCCCGGGAGGCT
 GCATCTCCAACGATAGTCCAAGGAGAAGTTTCACTACAGAGAAAACGAAACCGGAACCTCCTGTACGAGTA
 TGC GCGGAGGGCTACAGCGCACTCCCTCAGCTGGACATAGAGCGGTTCTGCGCATGCCAGAAAGAGGCC
 GCACACGCCCTGGAGCTCCGCAAGGGGGAGCTGCGCTCGGCGGACCTGCCCGCATCATCTCGACATGGC
 AGGAGCTGAGGCAGTGCAGGAGCAGATCCGGAGCCTGGAGGAAGAGAAGGCAGCTGTGACTGAGGCAGT
 GCGGGCCCTGCTGGCAAACAGGACAGTGGTGAAGTGCAGCAGGTGCGGCTGGATCCAGGTGCTGGCTCC
 ATATTTGGTCTACGTTCTCCATTCCAGGCCAGCTTCTCTCCTTGTGGAGGCCAGCTTGAGGAGC
 AGTTTACCTGCAGGCGCTGAAGCTGCCAACCAGACCCACCCAGACGTGCCCGTCGGGGATGAGAGCCA
 GGCTCGAGTGCTCCACATGGTCGGAGACAAGCCAGTTTTCTCCTTCCAACCTCGGGGCCACTGGAAATT
 GCGGAGAACTCGACATCATCCGTCAGAAGCGCTGTCCACGTGTCTGGCCACCGGTCCTATTACCTGC
 GCGGGGCTGGAGCCCTCCTGCAGCACGGCTGGTCAACTTCACATTCAACAAGCTTCTCCGCCGGGCTT
 CACCCCATGACGGTGCCAGACCTTCTCCGCGGAGCAGTGTGGAAGGCTGTGGGATGACACCAAATGCC
 AACCCATCCAAATTTACAACATCGACCCTGCCCGCTTCAAAGATCTCAACCTGGCTGGAACAGCGGAGG
 TGGGGCTTGACAGGCTACTTATGGACCACACCGTGGCCTTCAGGGACCTGCCAGTCAGGATGGTTTGCTC
 CAGCACCTGCTACCGGGCAGAGACAAACACGGGACAGGAACCCCGGGGGTGTATCGAGTACACCACTTC
 ACCAAGTGGAGATGTTTGGGGTGACAGGCCCTGGGCTGGAGCAGAGCTCACAGCTGCTGGAGGAGTCC
 TGTCCTTCAGATGGAGATCTTGACAGAGCTGGGCTTGCACTTCGGGGTCTGGATATGCCACCCAAGA
 ACTGGGCCTCCCGCCTACCGCAAGTTGACATTGAGGCCTGGATGCCAGGCCGAGGCCGCTTTGGAGAG
 GTCACCACTGCTTCCAAGTGCACAGACTTCCAGAGCCCGCCTCCACATCATGTTCCAGACCGAGGCTG
 GGGAGCTGCAGTTTCCACACGGTGAACGCCACCGCCTGTGCTGTCCCGCCTTCTCATCGCGCTCCT
 GGAGAGTAACCAGCAGAAGGACGGCTCAGTGCTCGTGCCTCCAGTCTACCTCGGCACTGAT
 CGGATCACAGCCCTACCCAGTGCCTCTCCAGTACATCGGCCCAACCAGCCCGGAAGCTGGGCTGC
 CTGGCCAGCCTGCTGTAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228425 representing NM_001145901
 Red=Cloning site Green=Tags(s)

MAASMARRLWPLLTRRGFRPRGGCISNDSPRRSFTTEKRNRLLEYAREGYSALPQLDIERFCACPEEA
 AHALELRKGLRSADLPAAIISTWQELRQLQEQIRSLSEEEKAAVTEAVRALLANQDSGEVQVRLDPGAGS
 IFGPTFLPFPQQLSLLVEAQLEEQFYLAQLKLPNQTHPDVPGDESQARVLHMVGDKPVFSFQPRGHLEI
 GEKLDIIRQKRLSHVSGHRSYYLRGAGALLQHGLVNFNFKLLRRGFTPMTVPDLLRGAVFEGCGMTPNA
 NPSQIYNIIDPARFKDLNLAGTAEVGLAGYFMDHTVAFRDLPVRMVCSSCYRAETNTGQEPRLYRVHFF
 TKVEMFGVTGPGLQSSQLLEEFSLQMEILTELGLHFRVLDMPQTGLPAYRKFIDEAWMPGRGRFGE
 VTSASNCTDFQSRRLHIMFQTEAGELQFAHTVNATACAVPRLIALLESNQKDGSVLPPALQSYLGTD
 RITAPTHVPLQYIGPNQPRKPLPGQPAVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8065_c03.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001145901

ORF Size: 1560 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_001145901.2](#)

RefSeq ORF: 1563 bp

Locus ID: 54938

UniProt ID: [Q9NP81](#)

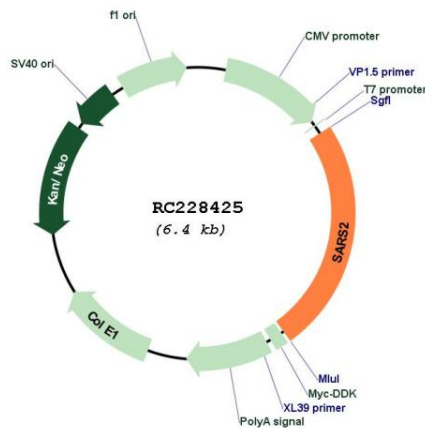
Cytogenetics: 19q13.2

Protein Pathways: Aminoacyl-tRNA biosynthesis

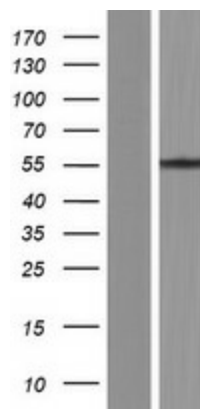
MW: 58.03 kDa

Gene Summary: This gene encodes the mitochondrial seryl-tRNA synthetase precursor, a member of the class II tRNA synthetase family. The mature enzyme catalyzes the ligation of Serine to tRNA(Ser) and participates in the biosynthesis of selenocysteinyl-tRNA(sec) in mitochondria. The enzyme contains an N-terminal tRNA binding domain and a core catalytic domain. It functions in a homodimeric form, which is stabilized by tRNA binding. This gene is regulated by a bidirectional promoter that also controls the expression of mitochondrial ribosomal protein S12. Both genes are within the critical interval for the autosomal dominant deafness locus DFNA4 and might be linked to this disease. Multiple transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Mar 2009]

Product images:



Circular map for RC228425



Western blot validation of overexpression lysate (Cat# [LY431453]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228425 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).