

Product datasheet for **RG228425**

SARS2 (NM_001145901) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SARS2 (NM_001145901) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SARS2
Synonyms:	mtSerRS; SARS; SARSM; SerRS; SerRSmt; SERS; SYS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228425 representing NM_001145901
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCGTCCATGGCGGGCGCTTGTGGCCTTTGCTGACTCGTCGGGGTTCCGGCCCCGGGAGGCT
 GCATCTCCAACGATAGTCCAAGGAGAAGTTTCACTACAGAGAAAACGAAACCGGAACCTCCTGTACGAGTA
 TGC GCGGAGGGCTACAGCGCACTCCCTCAGCTGGACATAGAGCGGTTCTGCGCATGCCAGAAGAGGCC
 GCACACGCCCTGGAGCTCCGCAAGGGGGAGCTGCGCTCGGCGGACCTGCCCGCATCATCTCGACATGGC
 AGGAGCTGAGGCAGTGCAGGAGCAGATCCGGAGCCTGGAGGAAGAGAAGGCAGCTGTGACTGAGGCAGT
 GCGGGCCCTGCTGGCAAACAGGACAGTGGTGAAGTGCAGCAGGTGCGGCTGGATCCAGGTGCTGGCTCC
 ATATTTGGTCTACGTTCTCCATTCCCAGGCCAGCTTCTCTCCTTGTGGAGGCCAGCTTGAGGAGC
 AGTTTACCTGCAGGCGCTGAAGCTGCCAACCAGACCCACCCAGACGTGCCCGTCGGGGATGAGAGCCA
 GGCTCGAGTGCTCCACATGGTCGGAGACAAGCCAGTTTTCTCCTTCCAACCTCGGGCCACCTGGAAATT
 GCGGAGAACTCGACATCATCCGTCAGAAGCGCTGTCCACGTGTCTGGCCACCGGTCTATTACCTGC
 GCGGGGCTGGAGCCCTCCTGCAGCACGGCCTGGTCAACTTCACATTCAACAAGCTTCTCCGCCGGGCTT
 CACCCCATGACGGTGCCAGACCTTCTCCGCGGAGCAGTGTGGAAGGCTGTGGGATGACACCAAATGCC
 AACCCATCCCAAATTTACAACATCGACCCTGCCCGCTTCAAAGATCTCAACCTGGCTGGAACAGCGGAGG
 TGGGGCTTGACAGGCTACTTATGGACCACACCGTGGCCTTCAGGGACCTGCCAGTCAGGATGGTTTGCTC
 CAGCACCTGCTACCGGGCAGAGACAAACACGGGACAGGAACCCCGGGGGCTGTATCGAGTACACCACTTC
 ACCAAGGTGGAGATGTTTGGGGTGACAGGCCCTGGGCTGGAGCAGAGCTCACAGCTGCTGGAGGATCC
 TGTCCTTCAGATGGAGATCTTGACAGAGCTGGGCTTGCACCTCCGGGCTCTGGATATGCCACCCAAGA
 ACTGGGCCTCCCGCCTACCGCAAGTTTGACATTGAGGCCTGGATGCCAGGCCGAGGCCGCTTTGGAGAG
 GTCACCACTGCTTCCAAGTGCACAGACTTCCAGAGCCCGCCCTCCACATCATGTTCCAGACCGAGGCTG
 GGGAGCTGCAGTTTCCACACGGTGAACGCCACCGCCTGTGCTGTCCCCGCCTTCTCATCGCGCTCCT
 GGAGAGTAACCAGCAGAAGGACGGCTCAGTGCTCGTCCCGCTGCCCTCCAGTCTACCTCGGCACTGAT
 CGGATCACAGCCCTACCCAGTGCCTCTCCAGTACATCGGCCCAACCAGCCCGGAAGCTGGGCTGC
 CTGGCCAGCCTGCTGTAAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG228425 representing NM_001145901
 Red=Cloning site Green=Tags(s)

MAASMARRLWPLLTRRGFRPRGGCISNDSPPRSFTTEKRNRLLEYAREGYSALPQLDIERFCACPEEA
 AHALELRKGE LRSADLPAIISTWQELRQLQE QIRSL EEEKA AVTEAVRALLANQDSGEVQVRLDPGAGS
 IFGPTFLPFPGLSLLVEAQLEE QFY LQALKLPNQTHPDVPVGD ESQARV LHMVGDKPVFSFQPRGHLEI
 GEKLDIIRQKRLSHVSGHR SYLRGAGALLQHGLVNFTFNKLLRRGFTPMTVPDLLRGAVFEGCGMTPNA
 NPSQIYNIDPARFKDLNLAGTAEVGLAGYFMDHTVAFRDL PVRMVCSS T CYRAETNTGQEP RGLYRVHFF
 TKVEMFGVTGPGL EQSSQLLEEF LSLQMEIL TELGLHFRVLDMP TQELGLPAYRKFDIEAWMPGRGRFGE
 VTSASNC TDFQSRRLHIMFQTEAGELQFAHTVNATACAVPRL LIALLESNQQKDG SVLVPPALQSYLGTD
 RITAPTHVPLQYIGPNQPRKPLPGQPAVS

TRTRPLE – GFP Tag – V

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 Size: 2083 bp

RefSeq ORF: 1563 bp

Locus ID: 54938

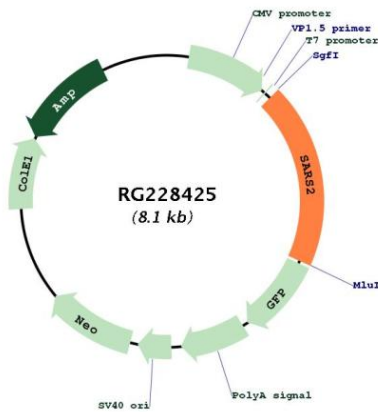
UniProt ID: [Q9NP81](#)

Cytogenetics: 19q13.2

Protein Pathways: Aminoacyl-tRNA biosynthesis

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 RG228425