

Product datasheet for **RG208306**

SARS2 (NM_017827) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SARS2 (NM_017827) 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:

>RG208306 representing NM_017827
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCGTCCATGGCGGGCGCTTGTGGCCTTTGCTGACTCGTCGGGGTTCCGGCCCCGGGAGGCT
 GCATCTCCAACGATAGTCCAAGGAGAAGTTTCACTACAGAGAAAACGAAACCGGAACCTCCTGTACGAGTA
 TGC GCGGAGGGCTACAGCGCACTCCCTCAGCTGGACATAGAGCGGTTCTGCGCATGCCAGAAAGAGGCC
 GCACACGCCCTGGAGCTCCGCAAGGGGGAGCTGCGCTCGGCGGACCTGCCCGCATCATCTCGACATGGC
 AGGAGCTGAGGCAGTGCAGGAGCAGATCCGGAGCCTGGAGGAAGAGAAGGCAGCTGTGACTGAGGCAGT
 GCGGGCCCTGCTGGCAAACAGGACAGTGGTGAAGTGCAGCAGGACCCCAAGTACCAGGGTCTGCGGGCA
 CGTGGCCGGGAGATCCGGAAGGAGCTTGTTCACCTGTACCCAGGGAGGCCAGCTTGAGGAGCAGTTCT
 ACCTGCAGGCGCTGAAGCTGCCAAACAGACCCACCCAGAGCTGCCCGTGGGGATGAGAGCCAGGCTCG
 AGTGCTCCACATGGTCGGAGACAAGCCAGTTTTCTCCTTCCAACCTCGGGCCACCTGAAAATTGGCGAG
 AAACCTCGACATCATCCGTGAGAAGCGCCTGTCCCACGTGTCTGGCCACCGGTCTATTACCTGCGCGGGG
 CTGGAGCCCTCCTGCAGCACGGCCTGGTCAACTTCACATTCAACAAGCTTCTCCGCCGGGGCTTACCCCC
 CATGACGGTGCCAGACCTTCTCCGCGGAGCAGTGTGTAAGGCTGTGGGATGACACCAAATGCCAACCA
 TCCCAAATTTACAACATCGACCTGCCCGCTTCAAAGATCTCAACCTGGTGGAAACAGCGGAGGTGGGGC
 TTGCAGGCTACTTCATGGACCACACCGTGGCCTTCAGGGACCTGCCAGTCAGGATGGTTTGTCCAGCAC
 CTGCTACCGGGCAGAGACAAACACGGGACAGGAACCCCGGGGGCTGTATCGAGTACACCACTTACCAAG
 GTGGAGATGTTTGGGGTACAGGCCCTGGGCTGGAGCAGAGCTCACAGCTGCTGGAGGAGTTCTGTCCC
 TTCAGATGGAGATCTTGACAGAGCTGGGCTTGCACCTCCGGGCTCTGGATATGCCACCCAAAGAATGGG
 CCTCCCCGCTACCGCAAGTTTACATTGAGGCCTGGATGCCAGGCCGAGGCCGCTTTGGAGAGGTCACC
 AGTGCTTCCAACCTGCACAGACTTCCAGAGCCGCCCTCCACATCATGTTCCAGACCGAGGCTGGGAGC
 TGCAGTTTGCCCATACGGTGAACGCCACCGCCTGTGCTGTCCCCGCCTTCTCATCGCGCTCCTGGAGAG
 TAACCAGCAGAAGGACGGCTCAGTGCTCGTCCCCCTGCCCTCCAGTCTACCTCGGCACTGATCGGATC
 ACAGCCCTACCCAGTGCCTCTCCAGTACATCGGCCCAACAGCCCCGGAAGCCTGGGCTGCCTGGCC
 AGCCTGCTGTAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208306 representing NM_017827
 Red=Cloning site Green=Tags(s)

MAASMARRLWPLLTRRGFRPRGGCISNDSPPRSFTTEKRNRLLYEYAREGYSALPQLDIERFCACPEEA
 AHALELRKGELRSADLPAIISTWQELRQLQEIQIRSLIEEEKAAVTEAVRALLANQDSGEVQDPKYQGLRA
 RGREIRKELVHLYPREAQLEEQFYLQALKLPNQTHPDVPVGDSEQARVLHVMGDKPVFSFQPRGHLEIGE
 KLDIIRQKRLSHVSGHRSYYLRGAGALLQHGLVNFNFKLLRRGFTPMTVPDLLRGAVFEGCMTPNANP
 SQIYNIDPARFKDLNLAGTAEVGLAGYFMDHTVAFRDLPVRMVCSTCYRAETNTGQEPRLYRVHFTK
 VEMFGVTGPGLEQSSQLLEEFSLQMEILTELGLHFRVLDMPQTQELGLPAYRKFDIEAWMPGRGRFGEVT
 SASNCTDFQSRRLHIMFQTEAGELQFAHTVNATACAVPRLLIALLESNQKDGSVLVPALQSYLGTDRIT
 TAPTHVPLQYIGPNQPRKPGLPGQPAVS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_017827

ORF Size: 1554 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_017827.2](#), [NP_060297.1](#)

RefSeq Size: 2067 bp

RefSeq ORF: 1557 bp

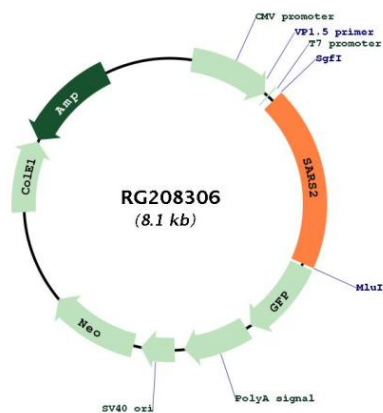
Locus ID: 54938

UniProt ID: [Q9NP81](#)

Cytogenetics: 19q13.2

Domains:	tRNA-synt_2b
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 RG208306