

Product datasheet for **RG203665**

Seryl tRNA synthetase (SARS) (NM_006513) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Seryl tRNA synthetase (SARS) (NM_006513) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Seryl tRNA synthetase
Synonyms:	NEDMAS; SARS; SERRS; SERS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG203665 representing NM_006513
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCTGGATCTGATTGTTCGGGTGGATAAAGGAGGGACCCAGCCCTCATCCGAGAGACGCAGG
 AGAAGCGCTTCAAGACCCGGGACTAGTGGACCAGCTGGTGAAGGCAGACAGCGAGTGGCGACGATGTAG
 ATTTCCGGCAGACAACCTGAACAAGCTGAAGAACCTATGCAGCAAGACAATCGGAGAGAAAATGAAGAAA
 AAAGAGCCAGTGGGAGATGATGAGTCTGTCCCAGAGAATGTGCTGAGTTTCGATGACCTTACTGCAGACG
 CTTTAGCTAACCTGAAAGTCTCACAAAACAAAAAAGTCCGACTCCTCATTGATGAAGCCATCCTGAAGTG
 TGACGCGGAGCGGATAAAGTTGGAAGCAGAGCGGTTTGAACCTCCGAGAGATTGGGAACCTTCTGCAC
 CCTTCTGTACCCATCAGTAACGATGAGGATGTGGACAACAAGTAGAGAGGATTTGGGGTATTGTACAG
 TCAGGAAGAAGTACTCTCATGTGGACCTGGTGGTATGGTAGATGGCTTTGAAGGCGAAAAGGGGGCCGT
 GGTGGCTGGGAGTCGAGGTTACTTCTTGAAGGGGTCCTGGTGTCTCTGGAACAGGCTCTCATCCAGTAT
 GCCCTTCGCACCTTGGGAAGTCGGGGCTACATTCACATTTATACCCCTTTTTTCATGAGGAAGGAGGTCA
 TGCAGGAGGTGGCACAGCTCAGCCAGTTTGTGTAAGAACCTTTAAGGTATTGGCAAAGGCAGTGAAAA
 GTCTGATGACAACTCCTATGATGAGAAGTACCTGATTGCCACCTCAGAGCAGCCATTGCTGCCCTGCAC
 CGGGATGAGTGGCTCCGGCCGGAGGACCTGCCATCAAGTATGCTGGCCTGTCTACCTGCTTCCGTCAGG
 AGGTGGCTCCCATGGCCGTGACACCCGTGGCATCTTCCGAGTCCATCAGTTTGAGAAGATTGAACAGTT
 TGTGTAATCATACCCCATGACAACAAGTATGGGAGATGTTTGAAGAGATGATTACCACCGCAGAGGAG
 TTCTACCAGTCCCTGGGATTCCCTACCACATTTGTAATATTGTCTCAGGTTCTTTGAATCATGTGCCA
 GTAAGAAGCTTGACCTGGAGGCCTGGTTCCGGGCTCAGGAGCCTCCGTGAGTTGGTCTCCTGTTCTAA
 TTGCACGGATTACCAGGCTCGCCGGCTTGAATCCGATATGGGCAAAACCAAGAAGATGATGGACAAGGTG
 GAGTTTGTCCATATGCTCAATGCTACCATGTGCGCCACTACCTGTACCATCTGCGCCATCCTGGAGAACT
 ACCAGACAGAGAAGGCATCACTGTGCCTGAGAAATTGAAGGAGTTCATGCCGCCAGGACTGCAAGAACT
 GATCCCTTTGTGAAGCCTGCGCCATTGAGCAGGAGCCATCAAAGAAGCAGAAGAAGCAACATGAGGGC
 AGCAAAAAGAAAGCAGCAGCAAGAGACGTACCCTAGAAAACAGGCTGCAGAACATGGAGGTCACCGATG
 CT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG203665 representing NM_006513
 Red=Cloning site Green=Tags(s)

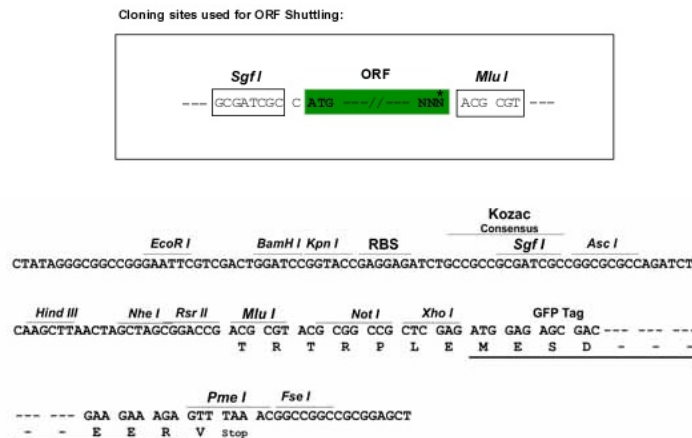
MVLDLDFRVDKGGDPALIRETQEKRFKDPGLVDQLVKADSEWRRRCFRADNLNKLKLNCSKTIGEKMKK
 KEPVGDDESVPENVLSFDDLADALANLKVSIKKVRLIDEAAILKCDERIKLEAERFENLREIGNLLH
 PSVPISNDEDVDNKVERIWGDCVVRKYSYHVDLVVMVDGFEKEKAVVAGSRGYFLKGVLFLEQALIQY
 ALRTLGSRGYIPIYTPFFMRKEVMQEVQLSQFDEELYKVIKKGSEKSDDNSYDEKYL IATSEQPIAALH
 RDEWLRPEDLPIKYAGLSTCFRQEVGSHGRDTRGIFRVHQFEKIEQFVYSSPHDNKSWEMFEEMITAE
 FYQSLGIPYHIVNIVSGLNHAASKKLDLEAWFPGSGAFRELVCSNCTDYQARRLRIRYQTKKMMDKV
 EFVHMLNATMCATTCTICAILENYQTEKGITVPEKLKEFMPPGLQELIPFVKPAPIEQEPSKKQKQHEG
 SKKKAAARDVTLENRLQNMEVTD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_006513

ORF Size: 1542 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_006513.2](#), [NP_006504.2](#)

RefSeq Size: 1942 bp

RefSeq ORF: 1545 bp

Locus ID: 6301

UniProt ID: [P49591](#)

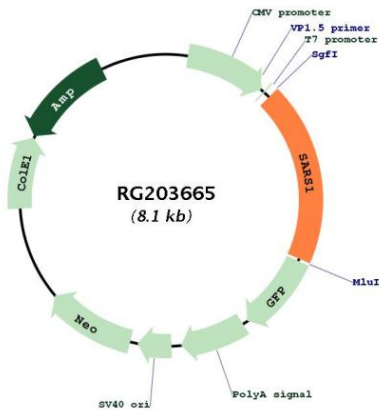
Cytogenetics: 1p13.3

Domains: tRNA-synt_2b, Seryl_tRNA_N

Protein Pathways: Aminoacyl-tRNA biosynthesis

Gene Summary: This gene belongs to the class II amino-acyl tRNA family. The encoded enzyme catalyzes the transfer of L-serine to tRNA (Ser) and is related to bacterial and yeast counterparts. Multiple alternatively spliced transcript variants have been described but the biological validity of all variants is unknown. [provided by RefSeq, Jul 2010]

Product images:



Circular map for RG203665