

## Product datasheet for **SC319289**

### Seryl tRNA synthetase (SARS) (NM\_006513) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Seryl tRNA synthetase (SARS) (NM_006513) Human Untagged Clone
Tag:	Tag Free
Symbol:	Seryl tRNA synthetase
Synonyms:	NEDMAS; SARS; SERRS; SERS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_006513.2  
 GCGGCGGATCCTTGCTTCCCTGAGCGTTGGCCCGGAGGAAAGAAGATGGTGCTGGATC  
 TGGATTTGTTTCGGGTGGATAAAGGAGGGGACCCAGCCCTCATCCGAGAGACGCAGGAGA  
 AGCGCTTCAAGGACCCGGGACTAGTGGACCAGCTGGTGAAGGCAGACAGCGAGTGGCGAC  
 GATGTAGATTTTCGGGCAGACAACCTTGAACAAGCTGAAGAACCTATGCAGCAAGACAATCG  
 GAGAGAAAATGAAGAAAAAGAGCCAGTGGGAGATGATGAGTCTGTCCCAGAGAATGTGC  
 TGAGTTTCGATGACCTTACTGCAGACGCTTAGCTAACCTGAAAGTCTCACAAATCAAAA  
 AAGTCCGACTCCTCATTGATGAAGCCATCCTGAAGTGTGACGCGGAGCGGATAAAGTTGG  
 AAGCAGAGCGGTTTGAGAACCTCCGAGAGATTGGGAACCTTCTGCACCCTTCTGTACCCA  
 TCAGTAACGATGAGGATGTGGACAACAAAGTAGAGAGGATTTGGGGTATTGTACAGTCA  
 GGAAGAAGTACTCTCATGTGGACCTGGTGGTATGGTAGATGGCTTTGAAGGCGAAAAGG  
 GGGCCGTGGTGGTGGGAGTCGAGGGTACTTCTTGAAGGGGGTCTGGTGTTCCTGGAAC  
 AGGCTCTCATCCAGTATGCCCTTCGCACCTTGGGAAGTCGGGGCTACATCCCATTATA  
 CCCCTTTTTTCATGAGGAAGGAGGTATGCAGGAGGTGGCACAGCTCAGCCAGTTTGATG  
 AAGAATTTATAAGGTGATTGGCAAAGGCAGTAAAAGTCTGATGACAACCTCTATGATG  
 AGAAGTACCTGATTGCCACCTCAGAGCAGCCATTGCTGCCCTGCACCGGATGAGTGGC  
 TCCGGCCGGAGGACCTGCCCATCAAGTATGCTGGCCTGTCTACCTGCTCCGTCAGGAGG  
 TGGGCTCCCATGGCCGTGACACCCGTGGCATCTCCGAGTCCATCAGTTTGAAGAAGATTG  
 AACAGTTTGTGTACTCATCACCCATGACAACAAGTATGGGAGATGTTTGAAGAGATGA  
 TTACCACCGCAGAGGAGTTTACCAGTCCCTGGGATTCTTACCACATTGTGAATATTG  
 TCTCAGTTCTTTGAATCATGCTGCCAGTAAAGAAGCTTGACCTGGAGGCCTGGTTCCGG  
 GCTCAGGAGCCTCCGTGAGTTGGTCTCCTGTTCTAATTGCACGGATTACCAGGCTCGCC  
 GGCTTCGAATCCGATATGGGCAAACCAAGAAGATGATGGACAAGTGGAGTTTGTCCATA  
 TGCTCAATGCTACCATGTGCGCCACTACCTGTACCATCTGCGCCATCCTGGAGAATACC  
 AGACAGAGAAGGGCATCACTGTGCCTGAGAAATTGAAGGAGTTTATGCCGCCAGGACTGC  
 AAGAAGTATCCCTTTGTGAAGCCTGCGCCATTGAGCAGGAGCCATCAAGAAGCAGA  
 AGAAGCAACATGAGGGCAGCAAAAAGAAAGCAGCAGCAAGAGACGTCACCCTAGAAAACA  
 GGCTGCAGAACATGGAGTACCCGATGCTTGAACATTCCTGCCTCCCTATTTGCCAGGCT  
 TTCATTTCTGTCTGCTGAGATCTCAGAGCCTGCCAACAGCAGGGAAGCCAAGCACCCAT  
 TCATCCCCCTGCCCCATCTGACTGCGTAGCTGAGAGGGGAACAGTGCCATGTACCACAC  
 AGATGTTCTGTCTCCTCGCATGGGCATAGGGACCCATCATTGATGACTGATGAAACCAT  
 GTAATAAAGCATCTCTGGGGAGGCTTAGGACTTTCCTCAGTCTTCTCCCGGCTTG  
 AACCCCGAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_006513

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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]  
Transcript Variant: This variant (1) lacks an alternate in-frame exon compared to variant 3. The resulting isoform (a) has the same N- and C-termini but is shorter compared to isoform b.