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Product datasheet for SC113914

SARS2 (NM_017827) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SARS2 (NM_017827) Human Untagged Clone
Tag:	Tag Free
Symbol:	SARS2
Synonyms:	mtSerRS; SARS; SARSM; SerRS; SerRSmt; SERS; SYS
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_017827, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGCGTCCATGGCGCGGCGCTTGTGGCCTTTGCTGACTCGTCGGGGGTTCCGGCCCCGGGGAGGCT
GCATCTCCAACGATAGTCCAAGGAGAAGTTTCACTACAGAGAAACGAAACCGGAACCTCCTGTACGAGTA
TGCGCGCGAGGGCTACAGCGCACTCCCTCAGCTGGACATAGAGCGGTTCTGCGCATGCCCAGAAGAGGCC
GCACACGCCCTGGAGCTCCGCAAGGGGGAGCTGCGCTCGGCGGACCTGCCCGCGATCATCTCGACATGGC
AGGAGCTGAGGCAGCTGCAGGAGCAGATCCGGAGCCTGGAGGAAGAGAAGGCAGCTGTGACTGAGGCAGT
GCGGGCCCTGCTGGCAAACCAGGACAGTGGTGAAGTGCAGCAGGACCCCAAGTACCAGGGTCTGCGGGCA
CGTGGCCGGGAGATCCGGAAGGAGCTTGTTCACCTGTACCCCAGGGAGGCCCAGCTTGAGGAGCAGTTCT
ACCTGCAGGCGCTGAAGCTGCCCAACCAGACCCACCCAGACGTGCCCGTCGGGGATGAGAGCCAGGCTCG
AGTGCTCCACATGGTCGGAGACAAGCCAGTTTTCTCCTTCCAACCTCGGGGCCACCTGGAAATTGGCGAG
AAACTCGACATCATCCGTCAGAAGCGCCTGTCCCACGTGTCTGGCCACCGGTCCTATTACCTGCGCGGGG
CTGGAGCCCTCCTGCAGCACGGCCTGGTCAACTTCACATTCAACAAGCTTCTCCGCCGGGGCTTCACCCC
CATGACGGTGCCAGACCTTCTCCGCGGAGCAGTGTTTGAAGGCTGTGGGATGACACCAAATGCCAACCCA
TCCCAAATTTACAACATCGACCCTGCCCGCTTCAAAGATCTCAACCTGGCTGGAACAGCGGAGGTGGGGC
TTGCAGGCTACTTCATGGACCACACCGTGGCCTTCAGGGACCTGCCAGTCAGGATGGTTTGCTCCAGCAC
CTGCTACCGGGCAGAGACAAACACGGGACAGGAACCCCGGGGGCTGTATCGAGTACACCACTTCACCAAG
GTGGAGATGTTTGGGGTGACAGGCCCTGGGCTGGAGCAGAGCTCACAGCTGCTGGAGGAGTTCCTGTCCC
TTCAGATGGAGATCTTGACAGAGCTGGGCTTGCACTTCCGGGTCCTGGATATGCCCACCCAAGAACTGGG
CCTCCCCGCCTACCGCAAGTTTGACATTGAGGCCTGGATGCCAGGCCGAGGCCGCTTTGGAGAGGTCACC
AGTGCTTCCAACTGCACAGACTTCCAGAGCCGCCGCCTCCACATCATGTTCCAGACCGAGGCTGGGGAGC
TGCAGTTTGCCCACACGGTGAACGCCACCGCCTGTGCTGTCCCCCGCCTTCTCATCGCGCTCCTGGAGAG
TAACCAGCAGAAGGACGGCTCAGTGCTCGTGCCCCCTGCCCTCCAGTCCTACCTCGGCACTGATCGGATC
ACAGCCCCTACCCACGTGCCTCTCCAGTACATCGGCCCCAACCAGCCCCGGAAGCCTGGGCTGCCTGGCC
AGCCTGCTGTAAGCTAA
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_017827 unedited
TTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGGTCCAAGATGGCTG
CGTCCATGGCGCGGCGCTTGTGGCCTTTGCTGACTCGTCGGGGGTTCCGGCCCCGGGGAG
GCTGCATCTCCAACGATAGTCCAAGGAGAAGTTTCACTACAGAGAAACGAAACCGGAACC
TCCTGTACGAGTATGCGCGCGAGGGCTACAGCGCACTCCCTCAGCTGGACATAGAGCGGT
TCTGCGCATGCCCAGAAGAGGCCGCACACGCCCTGGAGCTCCGCAAGGGGGAGCTGCGCT
CGGCGGACCTGCCCGCGATCATCTCGACATGGCAGGAGCTGAGGCAGCTGCAGGAGCAGA
TCCGGAGCCTGGAGGAAGAGAAGGCAGCTGTGACTGAGGCAGTGCGGGCCCTGCTGGCAA
ACCAGGACAGTGGTGAAGTGCAGCAGGTACTGTGAAGAGTTGATGTCCTATCCAGGGTTG
GGGGTGGGCAGGGAGGATACCCTGCCAGTCACGATTCTACTATTGTAACAGAAAAACAAC
TCAAACAGGTTTAAGGGGAAAAAAAAATAGGCTCTATTGATGCATGAAACTATAACTGGC
TTCAGGTGCGGCTGGATCCAGGTGCCTGCTCCATATTTGGTCCTACGTTCCTCCCATTCC
CAGGCCAGTTTCTCCTCTTGTGTAAGGACGAGGCAAAGCCAAGCCCGCCTTTCTGATAGT
CCAGTTAAGTCCTGGGCTGGATTTCATGATTCAACTGAATCAGGTGCCTGTCTCTGAACA
GCCATTGCGGCCAGGGCATAAACGTTCTAGTTGGCCGGCCTGATTTTTTCCCACAAACTG
CCTGGGGGGGAGGGAAATCTGGAAAAATTAGGATCCGGCCCTGAAAAAGCTCACGCCACC
CGGGCCT
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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_017827 unedited
GCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTGTCCTGACCATTTATTGGGGACT
TTTTGCTCAGCACTGTAGGAGGAAAGAAGGAAGGAGGGATGGAAGCCTCTTCCTCTGCTT
CTCCTGTCCCTAGAACCGTAAAGCCCAGACGTCCTGCTTCCCACTGGGACCCTCAATGAT
AACAGGGTCAGTGACTGACTCTGAGGCAGCAAGGACAGAGGAGAGGTGGACCCCGTGGTC
CAGGGGCCCGGGCGTGGAGCTGACAGGAAGAACACAGATGTCAGGACGGGCTCAGCAACA
CAGGTCCCAGGTGTCCGGGGTCTCCTGAACTCCAGGAAGCAGTGACACCCCCGAGGGCTG
CTGTGGGTGGGTTCTTAGCTTACAGCAGGCTGGCCAGGCAGCCCAGGCTTCCGGGGCTGG
TTGGGGCCGATGTACTGGAGAGGCACGTGGGTAGGGGCTGTGATCCGATCAGTGCCGAGG
TAGGACTGGAGGGCAGGGGGCACGAGCACTGAGCCGTCCTTCTGCTGGTTACTCTCCAGG
AGCGCGATGAGAAGGCGGGGGACAGCACAGGCGGTGGCGTTCACCGTGTGGGCAAACTGC
AGCTCCCCAGCCTCGGTCTGGAACATGATGTGGAGGCGGCCGCTCTGGAAGTCTGTGCAG
TTGGAAGCACTGTGACCTCTCCAAAACGGGCTCGGGCTGGCATCCAGGCCTTAATGGAAA
ACTTGCGGTAAGGGGNGAAGGCCCATTTCTTGGGTGGGCATATCCAGGACCCGGGAAGGG
CAGCCCCCGCTCTGTACAGATCTCCATCTGAAGGACCAGGAACTCTCTCCACCAACTGGT
GAACTCTGGTCCCAACCAAGGCCTGGTACCCCAAACATTTTCCCTCTGGTGAAATGGGGG
TCCTCAAATAACCCCCCTGGGTGTCCTGCTCCCGTTTTGCCTTTGCCGCGAACAGGGCCG
GAACAAACTATCTCGACGGACGGTCCCTGAAGG
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Restriction Sites: NotI-NotI

ACCN: NM_017827

Insert Size: 2500 bp

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).

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).

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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 synthethase 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] Transcript Variant: This variant (2) lacks an alternate exon and uses an alternate splice site in the coding region but maintains the reading frame, compared to variant 1. This variant encodes isoform b which is 2 aa shorter than isoform a.

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