

## Product datasheet for **MG208297**

### Sars2 (NM\_023637) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sars2 (NM_023637) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sars2
Synonyms:	2410015F05Rik; D7Ertd353e; SerRS; SerRSmt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208297 representing NM\_023637  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGCGTCCATGGCGCGCTTTGGTGGCCTTCTCGCTCGCAGGGGCTCCGGTCCCAGGAGACGCT  
 GCGTGTGCAGCCAGAACCAAGGAGGAGTTTCGCTACGGAGAAACGAGTCCGGAACCTCCTGTACGAACA  
 CGCAGCAGAGGGCTACAGCGAGCTTCCCTACTTGGACATGGAGTCGGTGTGCGCATGCCAGAAAAAGCC  
 GCGCGCTCCCTGGAGCTCCGCAAGGGGGAGCTGCGGCCGGCCGACCTGCCTGCGATTATCTCCACGTGGC  
 AGGAGTTGAGGCAGCTTCGAGAGCAGATCCGGAGCCTGGAGGCAGAGAAGGAGGCTGTGGCAGAGGCAGT  
 GCGGGCCCTGCTGGCAAACCAAGACAGTGACCAAGTGCAGAAGGACCCCAATATCAGGGCTCGCGGCC  
 CGAGGCCGGGAGATCCGGAAGCAGCTCACACCCTTGTACCCCAAGAGACCCAGCTAGAGGAGCAGCTGT  
 ACCAGCAGGCACTGAGGCTGCCAACAGACCCACCCAGACACGCTGTGGGGACGAGAGCCAGGCTAG  
 AGTGGTCCGTGTGGTGGGTGAAAAGCCGGCTTTCTCCTTCCAACCCGAGGCCACCTGAAAATTGGCGAG  
 AAAGTGGACATCATCCGGCAGAAGCGCCTGTCTCACGTGTCTGGCCACCGGTCTATTACCTGCGTGGGG  
 CAGGAGCCCTTTACAGCACGGCCTGGTCAACTTCACCCTCAGCAAGCTTGTGAGCAGGGGCTTACCCCA  
 CATGACGGTCCCAGACCTTCTGAGAGGAGCTGTGTTTGAAGGCTGTGGAATGACACCAAATGCCAACCA  
 TCCCAGATTTACAATATTGACCCCTCTCGCTTCGAAGACCTTAACCTGGCCGGGACGGCAGAGGTGGGGC  
 TGGCAGGATACTTCATGGACCACTCTGTAGCTTTCAGGGACCTTCCAGTCAGGATGGTCTGTGCCAGCAC  
 CTGCTACCGGGCAGAGACAGACTGGGAAGGAGCCTTGGGGACTGTACCGAGTCCATCACTTACTAAG  
 GTGGAGATGTTTGGGGTACAGGCCCTGGGCTGGAGCAGAGCTCGCAGCTGTTGGATGAGTTCCTGTCTC  
 TGCAGGTGGAGATCTTGACGGAGCTGGGCTTGCACCTCCGGGACTGGACATGCCACCGAAGTGGG  
 CCTTCTGCTTATCGCAAGTTCGACATTGAGGCCTGGATGCCTGGCCGAGGCCGCTATGGAGAGGTCACC  
 AGTGCCTCCAAGTGCACAGACTTCAGAGCCGCCGCTGTACATCATGTTTGGAGCAGAGACCGGGGAGC  
 TGCAGTTCGCACACAGGTGAATGCCACCCTGTGCTGTTCCCGAGTCCCTATTGCCCTCCTGGAAAAG  
 CAATCAGCAAAGGATGGTTTCACTCCTCGTGCCCGCCGCTCTCCAGCCCTACCTAGGCACGGACCGGATC  
 ACAGCCCTACCCATGTGCCTCTCCAGTACATCGGCCCAATCAGCCTCAGAAGCCAGGCTCCCGGCC  
 AGTCTGCCACCAGA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208297 representing NM\_023637  
 Red=Cloning site Green=Tags(s)

MAASMARLWPFARQGLRSRGRVCSQNPRRSFATEKRVNLLYEHAREGYSELPYLDMESVCACPEKA  
 ARSLELRKGLRPADLPAIISTWQELRQLREQIRSLAEKEAVAEAVRALLANQSDQVQKDPQYQGLRA  
 RGREIRKQLTPLYPQETQLEEQLYQQALRLPNQTHPDTPVGDESQARVVVVGEKPAFSFQPRGHLEIGE  
 KLDIIRQKRLSHVSGHRSYYLRGAGALLQHGLVNFTLSKLVSRGFTPMTVPDLLRGAVFEGCMTPNANP  
 SQIYNIDPSRFEDLNLAGTAEVGLAGYFMDHSAVFRDLPVRMVCSTCYRAETDTGKEPWGLYRVHFFTK  
 VEMFGVTGPGLEQSSQLLDEFSLQVEILTELGLHFRVLDMPQTQELGLPAYRKFIDIEAWMPGRGRYGEVT  
 SASNCTDFQSRRLYIMFETETGELQFAHTVNATACAVPRVLIALLLESNQKDGSVLVPAALQPYLGTDR  
 TAPTHVPLQYIGPNQPKPRLPGQSATR

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

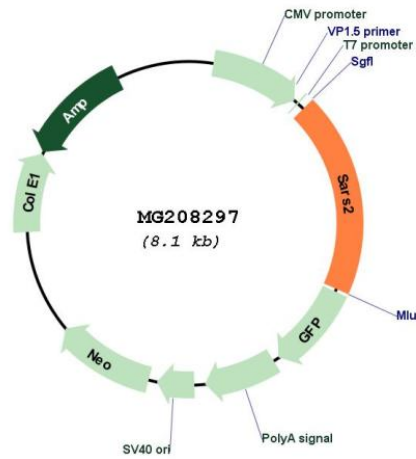
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_023637
<b>ORF Size:</b>	1554 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_023637.3</a>
<b>RefSeq Size:</b>	1858 bp
<b>RefSeq ORF:</b>	1557 bp
<b>Locus ID:</b>	71984
<b>UniProt ID:</b>	<a href="#">Q9JLL8</a>
<b>Cytogenetics:</b>	7 16.91 cM
<b>Gene Summary:</b>	Catalyzes the attachment of serine to tRNA(Ser). Is also probably able to aminoacylate tRNA(Sec) with serine, to form the misacylated tRNA L-seryl-tRNA(Sec), which will be further converted into selenocysteinyI-tRNA(Sec).[UniProtKB/Swiss-Prot Function]