

Product datasheet for **MG208235**

Slc19a1 (NM_031196) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc19a1 (NM_031196) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc19a1
Synonyms:	AI323572; RFC; RFC-1; RFC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208235 representing NM_031196
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGCCCACTGGCCAGGTGGCAGAAAAGCAGGCATACGAAGAGCCAGGCAGGACCACGAACTGAAAT
 CCTGGCGATGCCTGGTGTCTATCTCTGCTTCTTCGGCTTCATGGCCAGTTGCGTCCTGGGAAAAGCTT
 CATCACACCCCTTCTCCTGGAACGTAAATTCACCAAGGAGCAGGTGACTAACGAGATCATTCCGATGCTG
 CCCTACTCCCACCTGGCTGTGCTGGTCCCGGTCTTCTGCTCACCAGCTACCTGCGATACAAGCCAGTCT
 TGGTCTCGCAGTGCCTGAGCTTCGTGTGCGTGTGGCTGTTGCTGCTGCTGGGCACATCTGCTGTCACAT
 GCAACTCATGGAAGTCTTCTACAGCGTCACCATGGCGGCCGCATCGCCTACTCCTCATATTTCTCC
 CTGGTGCACCCCTCCCGTACCAGCGCATGGCCAGCTACTCACGGGCGGCAGTACTGCTGGGAGTCTTCA
 TCAGCTCTGTGTTGGGCCAGGCGCTGGTACCCTAGGACATATAAGCACCTATACTCACTCACTGTGTCTC
 CCTGGGCTTCATCTCTCAGCCTGGTCTCTCCCTCTTCTAAAGCGCCCTAAGCGGAGCTCTTTTTTC
 AACCGCAGTACGCTTTCGCGTGGAGCCTTGCCCTGTGAGCTGGATCAGATGCACCCGGGGCTGACCGGC
 CAGAAAACCAGGAACTAGATCGCATGCTGGCACTTGCAGGGACTCCTTCTGGTGCATGCTAAGTGA
 ACTGGTGGAAAATGCTCGGCAACCACAGCTGCGTCTCTGGTGCCTCTGGTGGTCTTCAACTCTTACGGC
 TACTACCTGATCACCTACTATGTGCATGCTCTGTGGAGAAGCACTGACAGCAGCCTCAGTACAATGGCG
 CCGTAGATGCCGCTCCACACTGCTGAGCGCCATCACGCTCTTCCGCCGGCTTCTGAGCATCCGCTG
 GACTCTGTGGTCCAAGCTGGTCAATCGCAGGTGTGATCGCCATCCAGGCCAGCCTGGTTTTCTGTATGTT
 CAGATCCGGGACATCTGGGTGTGCTACGTGACCTTTGTGCTTTCCGTGGGGCTACCAGTCTCTGTGTC
 CCATTGCCACTTTTCAGATTGCGTCTTCCCTGTCTAAAGAGCTCTGTGATTGGTCTTTGGGATCAACG
 TTTCTAGCTACTGCGCTTAAGACCTGTATCACACTTGTGGTCTCTGACAAGCGGGTCTGGGTCTCCAA
 GTCGCTGATCAGTCCGATCTACTTCATATACTTCTGATGCTGTCTATCACCTGCTTTGCCTGGCGCG
 GGCTGGATGGCTTAAGGTAAGTACTGCCAGCGTGGTCCGCCACCAGCCCTGGCCAGGCCAGGAGCTGAGGAG
 TCCCTTGGAGACTTCTGTGCAAGCGATAAGCCTACAGGATGGAGACCTAAGGGGACCGCAGCCCTCAGCG
 CCACAGCTGCTCTCAGAGGATGGCATGGAGGACGACAGGGGAGACTTAAGAGTCGAAGCCAAGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208235 representing NM_031196
 Red=Cloning site Green=Tags(s)

MVPTGQVAEKQAYEEPRQDHELKSWRCLVFYLCFFGFMAQLRPGESFITPFLLERKFTKEQVTNEIIPML
 PYSHLAVLVPVFLLDYLRYPVLLVQLSFVVCWLLLLLGTSSVHMQLMFVYSVTMAARIAYSSYIFS
 LVHPSRYQRMASYSRAAVLLGVFISSVLGQALVTVGHISTYTLNVCVSLGFILFSLVLSLFLKRPKRSLFF
 NRSTLARGALPCELDQMHPGPDREPETRKLDRLMGTCDRDFLVRMLSELVENARQPQLRLWCLWVWFNSSG
 YYLITYYVHVLWRSTDSSLSYNGAVDAASTLLSAITSFSAGFLSIRWTLWSKLVIAGVIAIQASLVFCMF
 QIRDIWVCYVTFVFRGAYQFLVPIATFQIASSLSKELCALVFGINTFLATALKTCITLVVSDKRGGLQ
 VRDQFRIYFIYFLMLSITCFAWAGLDGLRYCQRGRHQPLAQAEQLRSPLETSVQAIISLQDGLRGPQPSA
 PQLLEDGMEDDRGDLRVEAKA

TRTRPLE - GFP Tag - V

Restriction Sites:

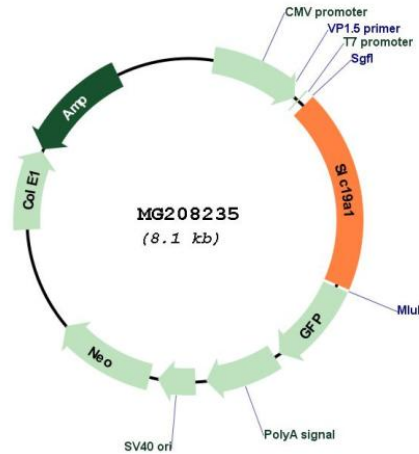
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_031196

ORF Size: 1536 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_031196.3](#), [NP_112473.1](#)

RefSeq Size: 2295 bp

RefSeq ORF: 1539 bp

Locus ID: 20509

UniProt ID: [P41438](#)

Cytogenetics: 10 39.72 cM

Gene Summary: Transporter for the intake of folate, reduced folates and methotrexate.[UniProtKB/Swiss-Prot Function]