

Product datasheet for **MG201919**

Slc31a1 (NM_175090) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc31a1 (NM_175090) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Slc31a1
Synonyms: 4930445G01Rik; AI787263; AU016967; Ctr1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201919 representing NM_175090
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCATATGGGGATGAACCATATGGAGATGCACCACCATATGGGTATGAACCACACGGACGACAACA
 TTACCATGCCACCTCACCACCACCCGACCCTCAGCCTCACACTCCCACGGTGGAGGGGACAGCATGAT
 GATGATGCCTATGACCTTCTACTTTGACTTTAAGAATGTGAATCTATTGTTTTCCGGTTTGGTAATCAAT
 ACACCTGGAGAAATGGCTGGAGCCTTCGTGGCAGTGTTTTACTAGCAATGTTTTATGAAGGACTCAAGA
 TAGCCCGAGAGGGTCTGCTTCGAAAGTCTCAAGTCAGCATTTCGCTACAATTCCATGCCTGTCCCAGGACC
 AAATGGAACCATCCTAATGGAGACACAAAACCTGTTGGCAGCAGATGCTGAGCTTCCCCACCTCCTG
 CAGACAGTGTGCACATCATCCAGGTAGTCATCAGCTACTTCTCATGCTCATCTTCATGACCTACAATG
 GGTACCTATGCATTGCAGTAGCAGCAGGGGCTGGGACGGGATACTTTCTCTTCAGCTGGAAGAAGGCAGT
 GGTGGTGGACATCACAGAGCACTGCCAT

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201919 representing NM_175090
 Red=Cloning site Green=Tags(s)

MNHGMNMEMHHMGMNHTDDNITMPPHHPTTSASHSHGGDSMMMMPMTFYDFKKNVLLFSGLVIN
 TPGEMAGAFVAVFLLAMFYEGLKIAREGLLRKSQVSIRYNSMPVPGPNGTILMETHKTVGQQLSFPHLL
 QTVLHIIQVVISYFLMLIFMTYNGYLCIAVAAGAGTGYFLFSWKKAVVVDITEHCH

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

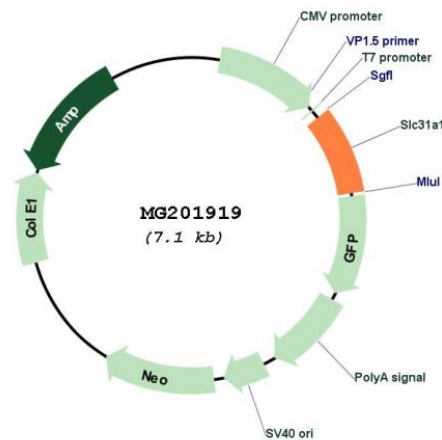


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Cloning Scheme:



Plasmid Map:



ACCN: NM_175090

ORF Size: 588 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_175090.4](#), [NP_780299.2](#)

RefSeq Size: 3764 bp

RefSeq ORF: 591 bp

Locus ID: 20529

UniProt ID: [Q8K211](#)

Cytogenetics: 4 B3

Gene Summary: High-affinity, saturable copper transporter involved in dietary copper uptake.
[UniProtKB/Swiss-Prot Function]