

## Product datasheet for MR201919

### Slc31a1 (NM\_175090) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Slc31a1 (NM\_175090) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Slc31a1  
**Synonyms:** 4930445G01Rik; AI787263; AU016967; Ctr1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201919 representing NM\_175090  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAACCATATGGGGATGAACCATATGGAGATGCACCACCATATGGGTATGAACCACACGGACGACAACA  
TTACCATGCCACCTCACCACCACCCGACCCTCAGCCTCACACTCCCACGGTGGAGGGGACAGCATGAT  
GATGATGCCTATGACCTTCTACTTTGACTTTAAGAATGTGAATCTATTGTTTTCCGGTTTGGTAATCAAT  
ACACCTGGAGAAATGGCTGGAGCCTTCGTGGCAGTGTTTTACTAGCAATGTTTTATGAAGGACTCAAGA  
TAGCCCGAGAGGGTCTGCTTCGAAAGTCTCAAGTCAGCATTTCGCTACAATCCATGCCTGTCCCAGGACC  
AAATGGAACCATCCTAATGGAGACACAAAAGTGTGGGACGAGATGCTGAGCTTCCCCACCTCCTG  
CAGACAGTGTGCACATCATCCAGGTAGTCATCAGCTACTTCTCATGCTCATCTTCATGACCTACAATG  
GGTACCTATGCATTGCAGTAGCAGCAGGGGCTGGGACGGGATACTTTCTCTTCAGCTGGAAGAAGGCAGT  
GGTGGTGGACATCACAGAGCACTGCCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201919 representing NM\_175090  
Red=Cloning site Green=Tags(s)

MNHMGMNHMEMHHMGMNHTDDNITMPPHHPTTSASHSHGGDSMMMMPMFTYFDFKVNLLFSGLVIN  
TPGEMAGAFVAVFLLAMFYEGLKIAREGLLRKSQVSIRYNSMPVPGPNGTILMETHKTVGQMLSFPHLL  
QTVLHIIQVVISYFLMLIFMTYNGYLCIAVAAGAGTGYFLFSWKKAVVVDITEHCH

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**



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Chromatograms: [https://cdn.origene.com/chromatograms/mm9025\\_c12.zip](https://cdn.origene.com/chromatograms/mm9025_c12.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



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](#)

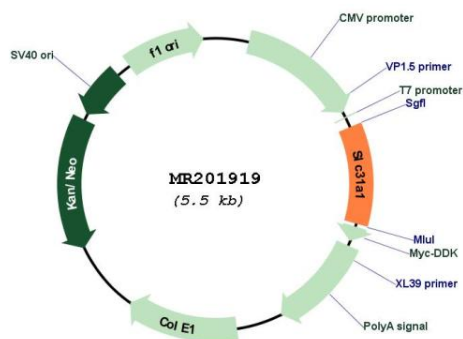
RefSeq Size: 3764 bp

RefSeq ORF: 591 bp

Locus ID: 20529

UniProt ID: [Q8K211](#)  
Cytogenetics: 4 B3  
MW: 22.4 kDa  
Gene Summary: High-affinity, saturable copper transporter involved in dietary copper uptake.  
[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR201919