

## Product datasheet for RR213692

### Slc31a1 (NM\_133600) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc31a1 (NM_133600) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc31a1
Synonyms:	Ctrl; LRRGT00200
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR213692 representing NM_133600 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAGGATGAACCACATGGAGATGCATCATATGGGGATGAACCACACGGACGACAACATCACCATGCCAC  
CCCACCAGCACCCACCCTCGGCCTCACACTCCCACGAGATGATGATGCCTATGACCTTCTACTTTGG  
CTTTAAGAATGTGGACCTATTGTTTTCCAGTTTGGTAATCAACACACCTGGAGAAATGGCTGGAGCTTTT  
GTGGCAGTGTTTTTACTAGCAATGTTTTATGAAGGACTCAAGATAGCCCGAGAGGGTCTGCTTCGAAAGT  
CTCAAGTCAGCATTTCGCTACAATTCATGCCTGTGCCAGGACCAATGGAACCATCCTTATGGAGACACA  
CAAACCTGTTGGGCAGCAGATGCTGAGCTTCCCCACCTCCTGCAGACAGTGCTGCACATCATCCAAGTA  
GTCATCAGCTACTTCTCATGCTCATCTTCATGACCTACAATGGGTACCTATGCATTGCAGTAGCCGCGAG  
GGGCTGGGACAGGATACTTCTCTTCAGCTGGAAGAAGGCTGTGGTGGTGGACATCACAGAGCACTGCCA  
T

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RR213692 representing NM_133600 Red=Cloning site Green=Tags(s)
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MRMNMHEMHHMGMNHTDDNITMPPHQHPTTSASHSEMMMPMTFYFGFKNVDLLFSSLVINTPGEMAGAF  
VAVFLLAMFYEGLKIAREGLLRKSQVSIIRYNMPVPGPNTILMETHKTVGQMLSPHLLQTVLHIIQV  
VISYFLMLIFMTYNGYLCIAVAAGAGTG YFLFSWKKAVVVDITEHCH

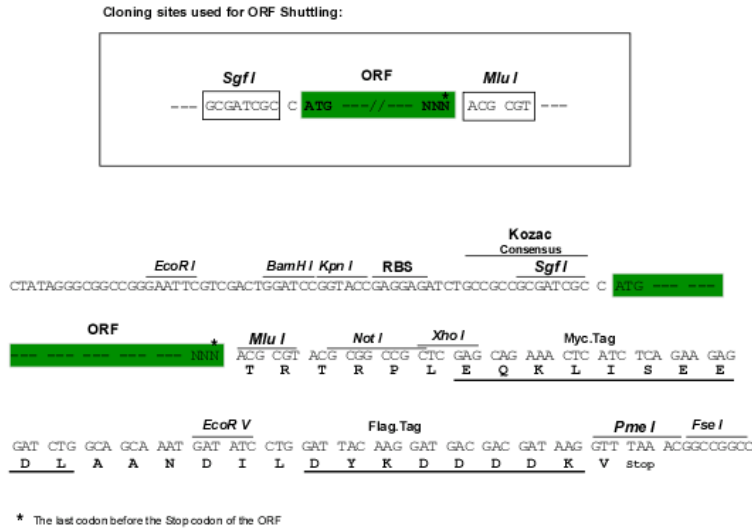
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:	SgfI-MluI
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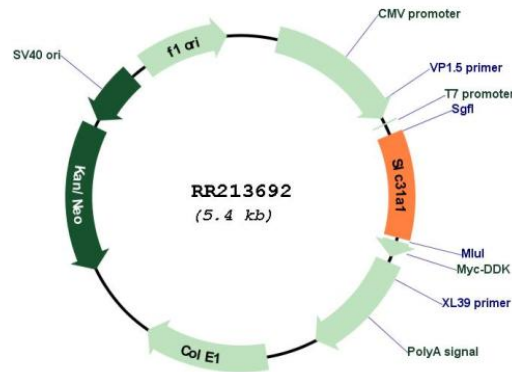


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_133600

ORF Size: 561 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\\_133600.1](#), [NP\\_598284.1](#)

**RefSeq Size:** 1423 bp

**RefSeq ORF:** 564 bp

**Locus ID:** 171135

**UniProt ID:** [Q9JK41](#)

**Cytogenetics:** 5q24

**MW:** 21.1 kDa

**Gene Summary:** high-affinity copper uptake gene; essential for intracellular copper metabolism [RGD, Feb 2006]