

## Product datasheet for **MG200933**

### **Slc31a2 (NM\_025286) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids

**Tag:** TurboGFP

**Symbol:** Slc31a2

**Synonyms:** AI604396; CTR2

**Mammalian Cell Selection:** Neomycin

**Vector:** pCMV6-AC-GFP (PS100010)

**E. coli Selection:** Ampicillin (100 ug/mL)

**ORF Nucleotide Sequence:** >MG200933 representing NM\_025286  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCCGATGCATTTTCATCTTCTCAGATGAGGCCGTGCTTCTTTGATTCTGGAGGGTCCACAGCCCTA  
CAGGCATGGCTCTCTCAGTGTGCTAGTCTTGCTCCTGGCAGTACTGTATGAGGGCATCAAGTTGGCAA  
AGCCAAATTGCTCCACAAGACTCTGGAGAGCCTGCCTGCCACCAACAGCCAGCAGTTCATCTTGGGACCA  
GACCAGGATTCTACAGGCTCCAGATCAACTTCAGACAATAGGACCCGCCTCAGGTGGTTTTGTGTTACT  
TTGGCCAGTCCCTAGTCCATGTCATTTCAGGTGGTAATTGGCTACTTTGTGATGCTGGCTGTATGTCCTA  
CAACACCTGGATTTTCTCGGTGTGGTCTGGGCTCGGCTGTGGGCTACTACCTAGCCTACCCACTTCTC  
AACATGACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200933 representing NM\_025286  
Red=Cloning site Green=Tags(s)

MPMHFIFSDEAVLLDFWVHSPTGMALSVLVLLAVLYEGIKVKAKLLHKTLESIPATNSQQFILGP  
DQDSTGSRSTSDNRTRLRWFLCYFGQSLVHVIQVVIGYFVMLAVMSYNTWIFLGVVLGSAVGYLAYPLL  
NMT

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**



**ACCN:** NM\_025286

**ORF Size:** 429 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_025286.3](#), [NP\\_079562.1](#)

RefSeq Size: 1824 bp

RefSeq ORF: 432 bp

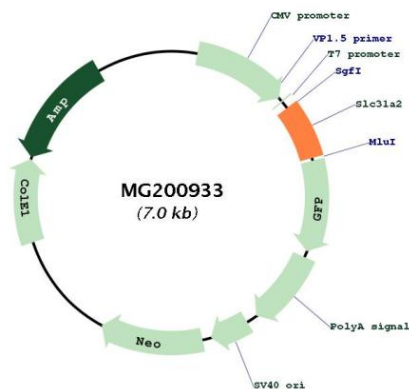
Locus ID: 20530

UniProt ID: [Q9CPU9](#)

Cytogenetics: 4 B3

Gene Summary: Involved in low-affinity copper uptake. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG200933