

## Product datasheet for **RN201903**

### **Slc39a8 (NM\_001011952) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc39a8 (NM_001011952) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc39a8
Synonyms:	MGC108852
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN201903 representing NM\_001011952  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTCCGGGCCGGGCAGTGGCCGGGCTGCTGCTACTGGCGGCCACCGCCTGGGACGCCCTCGGAGG  
 GGCCGGAGCTCGCTTCACTGAGGATGTGCTGAGAGTGTTCGGGCCAACAGAGCCTGTCGGCCCGCA  
 GCTGGGGCGCCTGCTGGAGCGCCTGGGGCTGCACCCAGCAGGAGCGCTGGAGCTGGGCCAGCTCCAC  
 TTCAACCACTGTCTGTCAGCGGAAGACATCTTTTCTTTCATGGTTTCTCAAACGTACCCAGATAACCA  
 GCTCGAACTTCACTGCCATCTGCCCTGCGATCTTACAGCAGCTGAACTTTCATCCCTGTGAGGATCCACA  
 GAAGCACAGCGTAAAGCCAGTTTTTCCGAAGTCTGGGGCTATGGATTCTTGTGAGTACAATCATCAAT  
 TTGGCCTCTCCTGGGATTGATTTAAACCCCTTGATAAAGAAGTCGATTTCCCAAGATTTTGACTT  
 ATTTTGTGGGGCTGGCTATTGGGACCTTTTCTCAAATGCCATTTCCAGCTTATCCAGAGGCATTTGG  
 ATTTAATCCCAAATTGACAATTATGTTGAAAAGGCAGTTGCTGTGTTTGGTGGATTTTACATGCTTTTC  
 TTTGTTGAAAGAACACTTAAGATGCTACTGAAAACGTACGGCCAGAATGACCATACTCACTTCAGGAATG  
 ATGACTTCGGTTCTAAAGAAAAAGCCATCAACCCAAAACGTTGCCATTACCTCCTGTCAATGGAGTGAC  
 ATGCTATGCCAACCCCGCTGCTACTGAGCCTAATGGACACATCCACTTCGACACTGTCAGTGTGTGTC  
 CTGCAGGATGGAAAAGCAGAGTCAAGTTCATGCACCTGTTTGAAGGGGCCAAAACGTGAGAAAATAGGAA  
 CGATTGCTTGGATGATCACGCTCTGTGATGCCCTTCAAAATTCATTGATGGCTTGGCGATCGGGGCATC  
 CTATACTGTCTCTTCTCAAGGACTCAGTACTTCCATAGCGATCCTGTGTGAGGAGTTTCTCATGAG  
 TTAGGGGACTTTGTGATCTTGTCAATGCAGGATGAGCACTCGGCAAGCCTTGTGTTAACTTCTCT  
 CTGCATGTTCTGCTACGTTGGGCTTGTTCGGCATTGTTGGTGGCAACAACACTTTGCTCAAATATTAT  
 ATTTGCACCTTGTGGAGGCATGTTCTTTACATTTCTCTGGCAGATATGTTTCCAGAGATGAACGACATG  
 CTGAGAGAAAAAGTAACTGGAAGACAAACGGACTTCACCTTCTCATGATCCAGAACGCAGGATGTTAA  
 CCGGATCACTGCCATCTTGCTCATCACCTGTACGCAGGGGACATCGAATTGCAGTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001011952
- Insert Size:** 1389 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\_001011952.1, NP\_001011952.1  
RefSeq Size: 3097 bp  
RefSeq ORF: 1389 bp  
Locus ID: 295455  
UniProt ID: Q5FVQ0  
Cytogenetics: 2q43  
Gene Summary: Acts as a manganese and zinc influx transporter. Plays a role in manganese reabsorption in the proximal tubule of the kidney and in manganese uptake into the brain.[UniProtKB/Swiss-Prot Function]