

## Product datasheet for **MC216319**

### **Slc39a8 (NM\_001135150) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc39a8 (NM_001135150) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc39a8
Synonyms:	4933419D20Rik; AA986696; BIGM103; ZIP-8; Zip8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC216319 representing NM\_001135150  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGC**

ATGGCTCCGGGCCGGGCAGTGGCCGGGCTGCTGCTGCTGGCGGCCACCAGCCTGGGACACCCCTCGGAGG  
 GACCGGAGCTCGCCTTCAGTGAGGATGTGCTGAGCGTGTTTCGGCGCCAACCGGAGCCTGTCGGCCGCGCA  
 GCTGGGGCGCCTGCTGGAGCGTCTGGGGGCTGCATCCAGCAGGAGCGCTGGACCTGGGCCAGCTGCAC  
 TTCAACCACTGTTTGTACAGCAGAAGACATCTTTTCTTTCATGGTTTCTCAAATGTACCCAGATAACCA  
 GCTCGAATTCTCTGCCATCTGCCCCGCGATCTTACAGCAGCTGAACCTCCATCCCTGCGAGGATCTAAG  
 AAAGCACAACGCAAAGCCAGTCTTCCGAAGTCTGGGGCTATGGATTCTGTGAGTACAATTATCAAT  
 CTGGCCTCTCTCTGGGATTGATTTTAACCCCTTGATAAAGAAGTCTTATTTCCCAAGATTTAACTT  
 ATTTCTGGGACTCGCTATTGGGACTCTTTCTCAAACGCCATTTCCAGCTTATTCAGAGGCATTGG  
 ATTTAATCCCAAAATTGACAATTACGTTGAGAAAGCAGTTGCTGTGTTTGGTGGATTTACATGCTTTTC  
 TTTGTCGAGAGAACACTTAAGATGCTACTGAAAACATATGGCCAGAATGACCATACTCACTTCAGGAATG  
 ATGACTTTGGTTCTAAAGAAAAAACCCACCAACCCAAACGTTACCATTGCCTGCAGTCAACGGTGTGAC  
 TTGCTATGCCAACCCCGCTGCTCACTGAGCCTAACGGACACATCCACTTCGACACTGTGACGTTGTATCC  
 CTCCAGGATGGAAAAACAGAGCCAAGCTCATGTACCTGTCTGAAGGGGCCAAACTGTCAGAAATAGGAA  
 CAATTGCCTGGATGATACGCTTTGTGATGCCCTCCACAATTTTCATCGACGGCTTGGCGATTGGGGCATC  
 TTGACTTTGTCTCTTCTCAGGGGCTCAGTACGTCCATAGCGATCCTGTGTGAGGAGTTTCTCATGAG  
 TTAGGGGACTTTGTGATCTTGTCAATGCAGGAATGAGCACCCGCAAGCCTTGTGTTCAACTTCTCT  
 CCGCGTGTCTGCTACGTGGGACTAGCTTTCGGCATTTTGGTGGGCAACAATTTTGTCTCCCAATATTAT  
 ATTTGCACTCGCTGGAGGCATGTTCTCTACATTTCTCTGCGAGATATGTTTCCAGAGATGAACGACATG  
 CTGAGAGAAAAAGTAAGTGAAGACAAACGATTTCACCTTCTCATGATCCAGAATGCAGGGATGTTAA  
 CCGGCTTCACTGCCATCTGCTCATCACCTGTACGCAGGAGACATCGAATTGCAG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001135150

**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\_001135150.1, NP\_001128622.1

RefSeq Size: 3533 bp

RefSeq ORF: 1389 bp

Locus ID: 67547

UniProt ID: Q91W10

Cytogenetics: 3 63.04 cM

**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]  
Transcript Variant: This variant (1) represents the longest transcript. Variants 1 through 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.