

## Product datasheet for **MR217181**

### Slc39a1 (NM\_013901) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc39a1 (NM_013901) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc39a1
Synonyms:	Zip1; Zirtl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217181 representing NM_013901 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGGCCCTGGGGGAGCCAGAGCTCCTGGTGTGGCGCCAGAAAGCAGTCGCATCGGAGCCCTCGGTGC  
CAGTAGGGCTGGAAGTGAAGCTGGGGCCCTGGTGTCTGCTGCTGCTGACTCATCTGCAGCCTGGT  
ACCTGTCTGTGTGCTTCGAAGGTCAGGTGCTAACCATGAAGCTTCAGCCTCGGGCCAGAAAGCCCTGAGC  
CTCGTCAGCTGCTTCGCAGGAGGAGTCTTTTGGCTACATGTCTTCTGGACCTGCTGCCTGACTACCTGG  
CTGCCATAGATGAGGCCCTGGAGGCCCTGCATGTGACGCTTCAGTCCCCTTGCAAGAGTTCATCTTGGC  
CATGGGTTTCTTCTGGTCTGGTATGGAGCAGATCACGCTGGCTTACAAGGAACAGACCAGTCCACCC  
CACCCGGAAGAGACAAGGGCTCTACTGGGCACAGTGAATGGTGGGCCCTCAGCACTGGCACGATGGACCAG  
GGATCCCCCAGGCCGGCGGAACCTCCAGCAGCTCCCTCAGCCCTGCGTGTCTGTGCTTCTTCTCCTT  
AGCCTTGCACTCAGTATTTGAGGGCCTGGCTGTAGGGTTGACGCGAGACAGGGCTCGGGCAATGGAGCTG  
TGCCTAGCTCTGCTGCTTCAAAGGCATTCTGGCAGTCAGCCTGTCCCTGCGGCTGCTACAGAGCCACC  
TACGTGTGCAGGTGGTGGCTGGCTGCGGGATCCTTCTCATGTATGACACCTCTGGGCATCGGGTTGGG  
TGCAGCTCTGGCAGAGTCAGCTGGGCCTCTGCACCAGCTGGCCCAATCTGTTCTAGAGGGCATGGCAGCT  
GGCACCTTCTCTATATCACCTTCTGGAAATTCTACCCAGGAAGTGGCACTTCTGAGCAGAGGATCC  
TCAAGGTCAATTCTGCTCCTAGCAGGCTTTGCCCTGCTCACTGGCCTTCTTTGTCCAAATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR217181 representing NM\_013901  
Red=Cloning site Green=Tags(s)

MGPWGEPELLVWRPEAVASEPSVPVGLVLEKLGALVLLLLLTLICSLVPVCVLRSGANHEASASGQKALS  
 LVSCFAGGVFLATCLLDLLPDYLAIDEALEALHVTLQFPLQEFILAMGFFLVLMVEQITLAYKEQTSPP  
 HPEETRALLGTVNGGPQHWHDGPGIPQAGGTPAAPSALRACVLFSLALHSVFEGELAVGLQRDRAMEL  
 CLALLLHKGILAVSLSLRLLQSHLRVQVVAGCGILFSCMTPLGIGLGAALAESAGPLHQLAQSVLEGMAA  
 GTFLYITFLEILPQELATSEQRILKVIILLLAGFALLTGLLVFVQI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9020\\_g12.zip](https://cdn.origene.com/chromatograms/mm9020_g12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_013901

**ORF Size:** 972 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\\_013901.2](#), [NP\\_038929.2](#)

**RefSeq Size:** 2344 bp

**RefSeq ORF:** 975 bp

**Locus ID:** 30791

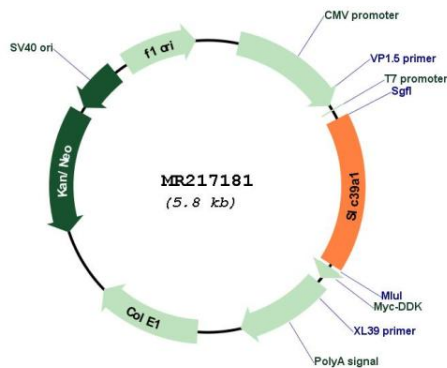
**UniProt ID:** [Q9QZ03](#)

**Cytogenetics:** 3 F1

**MW:** 34.7 kDa

**Gene Summary:** Mediates zinc uptake. May function as a major endogenous zinc uptake transporter in many cells of the body (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR217181