

## Product datasheet for **MG217181**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Slc39a1 (NM\_013901) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Slc39a1  
**Synonyms:** Zip1; Zirtl  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG217181 representing NM\_013901  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGCCCTGGGGGAGCCAGAGCTCCTGGTGTGGCGCCAGAAGCAGTCGCATCGGAGCCCTCGGTGC  
CAGTAGGGCTGGAGGTGAAGCTGGGGCCCTGGTGTCTGCTGCTGCTGACTCATCTGCAGCCTGGT  
ACCTGTCTGTGTCTCGAAGGTCAGGTGCTAACCATGAAGCTTCAGCCTCGGGCCAGAAAGCCCTGAGC  
CTCGTCAGCTGCTTCGCAGGAGGAGTCTTTTGGCTACATGTCTTCTGGACCTGCTGCCTGACTACCTGG  
CTGCCATAGATGAGGCCCTGGAGGCCCTGCATGTGACGCTTCAGTCCCCTTGCAAGAGTTCATCTTGGC  
CATGGGTTTCTTCTGGTCTGGTATGGAGCAGATCACGCTGGCTTACAAGGAACAGTCCAGTCCACCC  
CACCCGGAAGAGACAAGGGCTCTACTGGGCACAGTGAATGGTGGGCCCTCAGCATTGGCATGATGGACCAG  
GGATCCCCCAGGCCGGCGGAACCTCCAGCAGCTCCCTCAGCCCTGCGTGCTTGTGTCTGGTCTTCTCCTT  
AGCCTTGCACTCAGTATTTGAGGGCCTGGCTGTAGGGTTGACGCGAGACAGGGCTCGGGCAATGGAGCTG  
TGCCTAGCTCTGCTGCTTCAAAAGGCATTCTGGCAGTCAGCCTGTCCCTGCGGCTGCTACAGAGCCACC  
TACGTGTGCAGGTGGTGGCTGGCTGCGGGATCCTTCTCATGTATGACACCTCTGGGCATCGGGTTGGG  
TGCAGCTCTGGCAGAGTCAGCTGGGCCTCTGCACCAGCTGGCCCAATCTGTTCTAGAGGGCATGGCAGCT  
GGCACCTTCTCTATATCACCTTCTGGAAATTCTACCCAGGAACCTGGCCACTTCTGAGCAGAGGATCC  
TCAAGGTCAATTCTGCTCCTAGCAGGCTTTGCCCTGCTCACTGGCCTTCTTTGTCCAAATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG217181 representing NM\_013901  
 Red=Cloning site Green=Tags(s)

MGPWGEPELLVWRPEAVASEPSVPVGLVLEKLGALVLLLLLTLICSLVPVCVLRRSNGANHEASASGQKALS  
 LVSCFAGGVFLATCLLDLLPDYLAIDEALEALHVTLPQPLQEFILAMGFFLVLMVEQITLAYKEQSSPP  
 HPEETRALLTGVNGGPQHWHDGPGIPQAGGTPAAPSALRACVLFVSLALHSVFEGGLAVGLQRDRAMEL  
 CLALLLHKGILAVSLSLRLLQSHLRVQVVAGCGILFSCMTPLGIGLGAALAESAGPLHQLAQSVLGMAA  
 GTFLYITFLEILPQELATSEQRILKVILLLAGFALLTGLLFVQI

TRTRPLE - GFP Tag - V

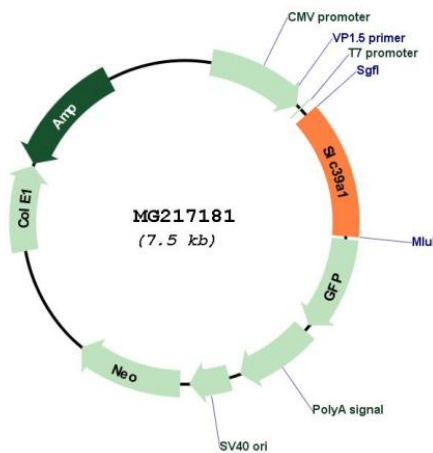
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_013901

**ORF Size:** 972 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_013901.1</a>
<b>RefSeq Size:</b>	2344 bp
<b>RefSeq ORF:</b>	975 bp
<b>Locus ID:</b>	30791
<b>UniProt ID:</b>	<a href="#">Q9QZ03</a>
<b>Cytogenetics:</b>	3 F1
<b>Gene Summary:</b>	Mediates zinc uptake. May function as a major endogenous zinc uptake transporter in many cells of the body (By similarity).[UniProtKB/Swiss-Prot Function]