

Product datasheet for **MG216981**

Slc39a14 (NM_144808) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Slc39a14 (NM_144808) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Slc39a14 |
| Synonyms: | FAD-123; fad123; ZIP-14; Zip14 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG216981 representing NM_144808
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCGGCTGCACCCAGCCCTTCCAAGCTGCCTCCTGTTGGTCTGTTTGGTATATGGAGAAGTCC
 CCCAGACTCATGCCTCGTCTGCTGGCCTGCCGCCCTCAGTGCCACCTCCTTCTCGAAGATCTCATGGA
 CCGCTATGAAAAGATGACAGCCTTACCCTGACACAGCTGAAGTCCCTGCTCGACCACCTGCATGTGGGA
 GTGGGCCGGGATAATGTTTCCCAGCCCAAGGAAGGACCCAGAACCTCTCCACGTGCTTTAGCTCTGGAG
 ACCTCTTTGCGGCGCACAACTTGAGCGAGCGATCTCAGATCGGGGCGAGTGAGTTCCAGGAGTTCTGCC
 CACCATTCTCCAGCAGCTGGATTCCAGGCCTGCACCTCAGAAAACCAGAACTCTGAGGAGAATGAACAG
 ACAGAGGAGGGGAAGCCAAGCGCCATTGAAGTATGGGGTACGGTTTCTCTGCGTTACCGTCATCTCCC
 TCTGCTCCCTCATGGGGCCAGCGTGGTCCCTTCATGAAGAAGACTTTTACAAGAGGCTCCTGCTCTA
 CTTCATAGCCTTGGCGATTGGAACCTCTACTCCAACGCCCTTCCAGCTCATCCAGAGGCTTTTGGC
 TTCAACCTCAGGACAATTACGTCTCCAAGTCTGCAGTGGTGTGGGGTGTTCACCTTTCTTTTTCA
 CAGAAAAGATCCTGAAGATGCTCTTGAAGCAGAAAACGAGCACCATCACGGGCATAACCTTTTACCTC
 CGAGACTTCTTCCAAGAAGGACCAGGAGGAGGTGTGACCGAGAAGCTACAGAACGGGGACCTGGAT
 CACATGATCCCTCAGCACTGCAACAGCGAGCTGGATGGCAAGGCGCTGGCACGGACGAGAAGGTCAATG
 TCAACTCCATGTCTGTGCAGGACCTGCAGGCATCCAGAGTGTGCTACTGGCTCAAGGGGTCCGCTA
 CTCTGATATCGGGACCTTGGCTGGATGATCACCTGAGCGATGGGCTCCACAATTTTCATCGATGGCCTG
 GCTATTTGGTGCCTCCTTCACTGTGTCTGCTTCCAAGGCATCAGCACGTGAGTGGCCATTCTCTGTGAGG
 AATTCCTCATGAGCTGGGAGACTTCGTATCCTGCTCAATGCTGCATGAGCATCCAGCAGGCTCTTT
 CTTCAACTTCTCTGCTGCTGCTGCTATTTGGGTCTGGCCTTTGGCATCCTGGCTGGCAGCCACTTC
 TCTGCAAAGTGGATTTTGCAGTGGCTGGAGGAATGTTCTTGTATATTGCCCTAGCCGATATGTTCCCTG
 AGATGAATGAAGTCTGCCAGGAGGATGAGAAGAACGACAGCTTTCTGGTCCCCTTTGTCATCCAGAATCT
 TGGCTCCTAACCGGCTTCTCCATTATGCTGGTCTCACAATGTATTAGGGCAGATTAGATCGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG216981 representing NM_144808
 Red=Cloning site Green=Tags(s)

MKRLHPALPSCLLLVLFGIWRTAPQTHASSAGLPPLSATSFLEDLMDRYGKNDLTLTQLKSLLDHLHVG
 VGRDNVSQPKGPRNLSTCFSSGDLFAAHNLSERSQIGASEFQEFQPTILQQLDSQACTSENQKSENEQ
 TEEGKPSAIEVWGYGFLCVTVISLCSLMGASVVPFMKKTfYKRLLLYFIALAIGTLYSNALFQLIPEAFG
 FNPQDNYVSKSAVVFGFYLFFFTEKILKMLLKQKNEHHHGHNHFTSETLPSKKDQEEGVTEKLQNGDLD
 HMIPQHENSELDGKAPGTDEKVIIVNSMSVQDLQASQSACYWLKGVRYSDIGTLAWMITLSDGLHNFIDGL
 AIGASFTVSFVQIGISTSVAILCEEFPHELGFVILLNAGMSIQQALFFNFLSACCCYLGLAFGILAGSHF
 SANWIFALAGMFLYIALADMFPENVEVCQEDEKNSFLVPFVIQNLGLLTGFSIMLVLTMYSGQIQIG

TRTRPLE - GFP Tag - V

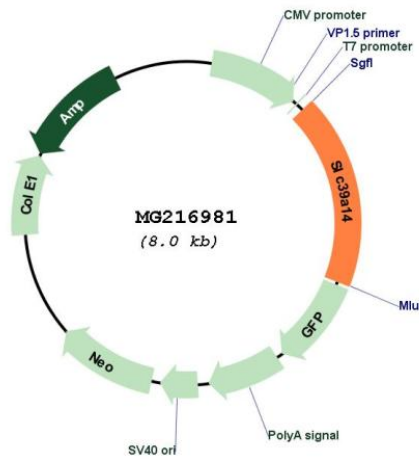
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_144808

ORF Size: 1467 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_144808.4](#), [NP_659057.2](#)

RefSeq Size: 4927 bp

RefSeq ORF: 1470 bp

Locus ID: 213053

UniProt ID: [Q75N73](#)

Cytogenetics: 14 D2

Gene Summary: Broad-scope metal ion transporter with a preference for zinc uptake. Also mediates cellular uptake of nontransferrin-bound iron.[UniProtKB/Swiss-Prot Function]