

## Product datasheet for **MG217646**

### Slc39a14 (NM\_001135151) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc39a14 (NM_001135151) 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:**

>MG217646 representing NM\_001135151  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGCGGCTGCACCCAGCCCTTCCAAGCTGCCTCCTGTTGGTGTGTTTGGTATATGGAGAAGTCC  
 CCCAGACTCATGCCTCGCTGCTGGCCTGCCGCCCTCAGTGCCACCTCCTTCTCGGAAGATCTCATGGA  
 CCGCTATGGAAAGAATGACAGCCTTACCCTGACACAGCTGAAGTCCCTGCTCGACCACCTGCATGTGGGA  
 GTGGGCCGGGATAATGTTTCCCAGCCCAAGGAAGGACCCAGAACCTCTCCACGTGCTTTAGCTCTGGAG  
 ACCTCTTTGCGGCGCACAACTTGAGCGAGCGATCTCAGATCGGGGCGAGTGAGTTCCAGGAGTTCTGCC  
 CACCATTCTCCAGCAGCTGGATTCCAGGCCTGCACCTCAGAAAACCAGAAAGTCTGAGGAGAATGAACAG  
 ACAGAGGAGGGGAAGCCAAGCGCCATTGAAGTGTGGGGCTTTGGGTTCTCAGTGTCTCACTGATTAACC  
 TGGCCTCTCCTGGGAGTCTGGTCTGCCGTGCACGGAGAAAGCGTTTTCCAGCCGTGTCTCACTTA  
 CTTTCATCGCCCTGTCCATTGGAACGCTGCTCTTAACGCCCTTTCCAGCTCATCCAGAGGCTTTTGGC  
 TTCAACCTCAGGACAATTACGTCTCCAAGTCTGCAGTGGTGTGGGGGTTTCTACCTTTCTTTTCA  
 CAGAAAAGATCCTGAAGATGCTCTTGAAGCAGAAAACGAGCACCATCACGGGCATAACCTTTTACCTC  
 CGAGACACTTCTTCCAAGAAGGACCAGGAGGAGGTGTGACCGAGAAGCTACAGAACGGGGACCTGGAT  
 CACATGATCCCTCAGCACTGCAACAGCGAGCTGGATGGCAAGGCGCTGGCACGGACGAGAAGGTCATTG  
 TCAACTCCATGTCTGTGCAGGACCTGCAGGCATCCAGAGTGTGCTACTGGCTCAAGGGGTCCGCTA  
 CTCTGATATCGGGACCTTGGCTGGATGATCACCTGAGCGATGGGCTCCACAATTTTCATCGATGGCCTG  
 GCTATTTGGTGCCTCCTTCACTGTGTCTGCTTCCAAGGCATCAGCACGTGAGTGGCCATTCTCTGTGAGG  
 AATTCCTCATGAGCTGGGAGACTTCGTATCCTGCTCAATGCTGCATGAGCATCCAGCAGGCTCTTT  
 CTTCAACTTCTCTGCTGCTGCTGCTATTTGGGTCTGGCCTTTGGCATCCTGGCTGGCAGCCACTTC  
 TCTGCAAAGTGGATTTTGCAGTGGCTGGAGGAATGTTCTGTATATTGCCCTAGCCGATATGTTCCCTG  
 AGATGAATGAAGTCTGCCAGGAGGATGAGAAGAACGACAGCTTTCTGGTCCCCTTTGTCATCCAGAATCT  
 TGGCCTCTAACCGGCTTCTCCATTATGCTGGTCTCACAATGTATTAGGGCAGATTAGATCGGG

**ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA**

**Protein Sequence:**

>MG217646 representing NM\_001135151  
 Red=Cloning site Green=Tags(s)

MKRLHPALPSCLLLVLFGIWRTAPQTHASSAGLPPLSATSFLEDLMDRYGKNDLTLTQLKSLLDHLHVG  
 VGRDNVSQPKGPRNLSTCFSSGDLFAAHNLSERSQIGASEFQEFQPTILQLDSQACTSENQKSENEQ  
 TEEGKPSAIEVWGFGLSVSLINLASLLGVLVLPCTEKAFKSRVLTIFYIALSIGTLLSNALFQLIPEAFG  
 FNPQDNYVSKSAVVFGGFYLFFTEKILKMLLKQKNEHHHGHNHFTSETLPSKKDQEEGVTEKLQNGDLD  
 HMIPQHCNSELDGKAPGTDEKVIIVNSMSVQDLQASQSACYWLKGVRYSDIGTLAWMITLSDGLHNFIDGL  
 AIGASFTVSFVQIGISTSVAILCEEFPHELGDVILLNAGMSIQQALFFNFLSACCCYLGLAFGILAGSHF  
 SANWIFALAGMFLYIALADMFPENVEVCQEDEKNSFLVPFVIQNLGLLTGFSIMLVLTMYSGQIQIG

**TRTRPLE – GFP Tag – V**

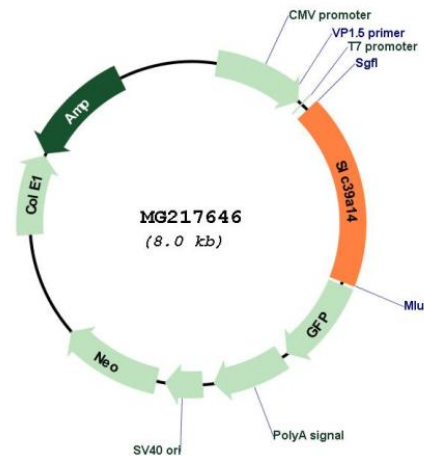
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001135151

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\\_001135151.1](#), [NP\\_001128623.1](#)

**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]