

Product datasheet for **MR217646**

Slc39a14 (NM_001135151) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc39a14 (NM_001135151) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc39a14
Synonyms:	FAD-123; fad123; ZIP-14; Zip14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR217646 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGCGGCTGCACCCAGCCCTTCCAAGCTGCCTCCTGTTGGTGTGTTTGGTATATGGAGAAGTCC
 CCCAGACTCATGCCTCGTCTGCTGGCCTGCCGCCCTCAGTGCCACCTCCTTCTCGGAAGATCTCATGGA
 CCGCTATGAAAAGAAATGACAGCCTTACCCTGACACAGCTGAAGTCCCTGCTCGACCACCTGCATGTGGGA
 GTGGGCCGGGATAATGTTTCCCAGCCAAAGGAAGGACCCAGAACCTCTCCACGTGCTTTAGCTCTGGAG
 ACCTCTTTCGCGCGCACAACTTGAGCGAGCGATCTCAGATCGGGGCGAGTGAGTTCCAGGAGTTCTGCC
 CACCATTCTCCAGCAGCTGGATTCCAGGCCTGCACCTCAGAAAACCAGAAAGTCTGAGGAGAATGAACAG
 ACAGAGGAGGGGAAGCCAAGCGCCATTGAAGTGTGGGGCTTTGGGTTCTCAGTGTCTACTGATTAACC
 TGGCCTCTCCTGGGAGTCTGGTCTGCCGTGCACGGAGAAAGCGTTTTTCAGCCGTGTGCTCACTTA
 CTTTCATCGCCCTGTCCATTGGAACGCTGCTCTTAACGCCCTTTCCAGCTCATCCAGAGGCTTTTGGC
 TTCAACCCTCAGGACAATTACGTCTCCAAGTCTGCAGTGGTGTGGGGGTTTCTACCTTTCTTTTTCA
 CAGAAAAGATCCTGAAGATGCTCTTGAAGCAGAAAAACGAGCACCATCACGGGCATAACCATTTTACCTC
 CGAGACACTTCTTCCAAGAAGGACCAGGAGGAGGTGTGACCGAGAAGCTACAGAACGGGGACCTGGAT
 CACATGATCCCTCAGCACTGCAACAGCGAGCTGGATGGCAAGGCGCTGGCACGGACGAGAAGGTCAATG
 TCAACTCCATGTCTGTGCAGGACCTGCAGGCATCCAGAGTGTGCTACTGGCTCAAGGGGGTCCGCTA
 CTCTGATATCGGGACCTTGGCCTGGATGATCACCTGAGCGATGGGCTCCACAATTTTCATCGATGGCCTG
 GCTATTGGTGCCTCCTTCACTGTGTCTGCTTCCAAGGCATCAGCACGTGAGTGGCCATTCTCTGTGAGG
 AATTCCTCATGAGCTGGGAGACTTCGTATCCTGCTCAATGCTGCATGAGCATCCAGCAGGCTCTTT
 CTTCAACTTCTCTGCTGCTGCTGCTATTTGGGTCTGGCCTTTGGCATCCTGGCTGGCAGCCACTTC
 TCTGCAAAGTGGATTTTGCAGTGGCTGGAGGAATGTTCTTGTATATTGCCCTAGCCGATATGTTCCCTG
 AGATGAATGAAGTCTGCCAGGAGGATGAGAAGAACGACAGCTTTCTGGTCCCCTTTGTATCCAGAATCT
 TGGCCTCTAACCGGCTTCTCCATTATGCTGGTCTCACAAATGTATTAGGGCAGATTAGATCGGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217646 protein sequence
 Red=Cloning site Green=Tags(s)

MKRLHPALPSCLLLVLFGIWRTPQTHASSAGLPPLSATSFLEDLMDRYGKNDLTLTQLKSLDLHLHVG
 VGRDNVSPKEGPRNLSTCFSSGDLFAAHNLSERSQIGASEFQEFQPTILQQLDSQACTSENQKSEENEQ
 TEEGKPSAIEVWGFGLSVSLINLASLLGVLVLPCTEKAFVSRVLYFIALSIGTLLSNALFQLIPEAFG
 FNPQDNYVSKSAVVFGGFYLFTEKILKMLLKQKNEHHHGHNHFTSETLPSKKDQEEGVTEKLQNGDLD
 HMIPQHCNSELGKAPGTDEKVIIVNSMSVQDLQASQSACYWLKGVRYSDIGTLAWMITLSDGLHNFIDGL
 AIGASFTVSVFQIGISTSVAILCEEFPHELGFVILLNAGMSIQQALFFNFLSACCCYLGLAFGILAGSHF
 SANWIFALAGGMFLYIALADMFPENVEQCQEDEKNSFLVPFVIQNLGLLTGFSIMLVLTMYSGQIQIG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001135151

ORF Size: 1470 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

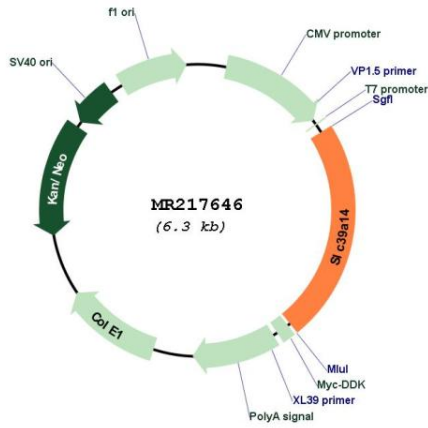
RefSeq ORF: 1470 bp

Locus ID: 213053

UniProt ID: [Q75N73](#)

Cytogenetics: 14 D2
MW: 53.8 kDa
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]

Product images:



Circular map for MR217646