

Product datasheet for **RC225818**

SLC39A14 (NM_001135154) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A14 (NM_001135154) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC39A14
Synonyms:	cig19; HCIN; HMNDYT2; LZT-Hs4; NET34; ZIP14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC225818 representing NM_001135154
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCTGCTGCTGCTGCACCCGGCCTCCAGAGCTGCCTCCTGCTGACCTGCTTGGCTTATGGAGAA
 CCACCCCTGAGGCTCACGCTTATCCCCGGGTGCCACAGCTATCAGCGCTGCCTCCTTCTCGAGGATCT
 AATACATCGGTATGGCGAGGGTGACAGCCTCACTCTGCAGCAGCTGAAGGCCCTGCTCAACCCACTGGAT
 GTGGGAGTGGGCCGGGTAATGTCACCCAGCACGTGCAAGGACACAGAACCTCTCCACGTGCTTTAGTT
 CTGGAGACCTTCTACTGCCACAATTTAGCGAGCAGTCGCGGATTGGGAGCAGCGAGCTCCAGGAGTT
 CTGCCCCACCATCTCCAGCAGCTGGATTCCCGGGCTGCACCTCGGAGAACCAGAAAACGAGGAGAA
 GAGCAGACGGAGGGGGCGCCAAGCGCTGTTGAAGTGTGGGGATACGGTCTCCTCTGTGTACCGTCA
 TCTCCCTCTGCTCCCTCTGGGGCCAGCGTGGTCCCTCATGAAGAAGACCTTTACAAGAGGCTGCT
 GCTCTACTTCATAGCTCTGGCGATTGGAACCTCTACTCCAACGCCCTTCCAGCTCATCCCGGAGGCA
 TTTGGTTTCAACCTCTGGAAGATTATTATGTCTCCAAGTCTGCAGTGGTGGTGGGGGCTTTATCTTT
 TCTTTTTCACAGAGAAGATCTTGAAGATTCTTCTTAAGCAGAAAAATGAGCATCATGACACAGCCA
 TTATGCCTCTGAGTCGTTCCCTCCAAGAAGACCAGGAGGAGGGGGTATGGAGAAGCTGCAGAACGGG
 GACCTGGACCACATGATTCTCAGCACTGCAGCAGTGAAGTGGACGGCAAGGCGCCCATGGTGGACGAGA
 AGGTCAATTGTGGGCTCGCTCTCTGTGCAGGACCTGCAGGCTTCCAGAGTGGTGGTACTGGCTGAAAGG
 TGTCCGCTACTCTGATATCGGCACTCTGGCCTGGATGATCACTCTGAGCGACGGCCTCCATAATTTATC
 GATGGCCTGGCCATCGGTGCTTCTTCACTGTGTCAAGTTCCTCAAGGCATCAGCACCTCGGTGGCCATCC
 TCTGTGAGGAGTTCCACATGAGCTAGGAGACTTGTGATCCTGCTCAACGCTGGGATGAGCATCCAAC
 AGCTCTTCTTCAACTTCTTCTGCTGCTGCTACCTGGTCTGGCCTTTGGCATCTCGCCGGC
 AGCCACTTCTCTGCAACTGGATTTTGCCTAGCTGGAGGAATGTTCTGTATATTTCTCTGGCTGATA
 TGATGGAGTTTCTGCTGTTGCCAGGCTGGAGTGAATGGTGCATCTCAGCTCACTGCAACCTCTGCC
 GCTTGGTTGAAGCGATTATCTGTCTAAGCCTCCCGAGTAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225818 representing NM_001135154
 Red=Cloning site Green=Tags(s)

MKLLLLHPAFQSCLLLTLLGLWRTTPEAHASSPGAPAI SAASFLQDLI HRYGEGDSLTLQQLKALLNHL
 VGVGRGNVTQHVGHRNLSTCFSSGDLFTAHNSEQSRIGSSELQEF CPTILQQLDSRACTSENQENEEN
 EQTEEGRPSAVEVWGYGLLCVTVISLCSLLGASVVPFMKKT FYKRLLLYFIALAIGTLYSNALFQLIPEA
 FGFNPLEDYVSKSAVVFGGFYLF FFFTEKILKILLKQNEHHHGHSHYASESLPSKKDQEEGVMEKLQNG
 DLDHMIPQHCSSELDGKAPMVDEKVI VGSLSVQDLQASQSACYWLKGVRYSDIGTLAWMITLSDGLHNF
 DGLAIGASFTVSVFQGI STSVAILCEEFPHELGD FVILLNAGMSIQQALFFNLSACCCYLGLAFGILAG
 SHFSANWIFALAGMFLYISLADMMEFCSVAQAGVQWCHLSSLQPLPLGLKRLSCLSLPSN

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001135154

ORF Size: 1443 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_001135154.1](#), [NP_001128626.1](#)

RefSeq ORF: 1446 bp

Locus ID: 23516

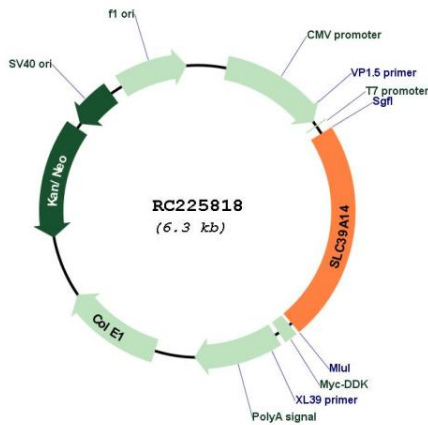
Cytogenetics: 8p21.3

Protein Families: Transmembrane

MW: 52.7 kDa

Gene Summary: This gene encodes a member of the the SLC39A family of divalent metal transporters that mediates the cellular uptake of manganese, zinc, iron, and cadmium. The encoded protein contains eight transmembrane domains, a histidine-rich motif, and a metalloprotease motif, and is expressed on the plasma membrane and the endocytic vesicle membrane. It is an important transporter of nontransferrin-bound iron and a critical regulator of manganese homeostasis. Naturally occurring mutations in this gene are associated with neurodegeneration with brain iron accumulation and early-onset parkinsonism-dystonia with hypermanganesemia. [provided by RefSeq, May 2017]

Product images:



Circular map for RC225818