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Product datasheet for RG225818

SLC39A14 (NM_001135154) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A14 (NM_001135154) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC39A14
Synonyms:	cig19; HCIN; HMNDYT2; LZT-Hs4; NET34; ZIP14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG225818 representing NM_001135154
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGCTGCTGCTGCTGCACCCGGCCTTCCAGAGCTGCCTCCTGCTGACCCTGCTTGGCTTATGGAGAA
CCACCCCTGAGGCTCACGCTTCATCCCTGGGTGCACCAGCTATCAGCGCTGCCTCCTTCCTGCAGGATCT
AATACATCGGTATGGCGAGGGTGACAGCCTCACTCTGCAGCAGCTGAAGGCCCTACTCAACCACCTGGAT
GTGGGAGTGGGCCGGGGTAATGTCACCCAGCACGTGCAAGGACACAGGAACCTCTCCACGTGCTTTAGTT
CTGGAGACCTCTTCACTGCCCACAATTTCAGCGAGCAGTCGCGGATTGGGAGCAGCGAGCTCCAGGAGTT
CTGCCCCACCATCCTCCAGCAGCTGGATTCCCGGGCCTGCACCTCGGAGAACCAGGAAAACGAGGAGAAT
GAGCAGACGGAGGAGGGGCGGCCAAGCGCTGTTGAAGTGTGGGGATACGGTCTCCTCTGTGTGACCGTCA
TCTCCCTCTGCTCCCTCCTGGGGGCCAGCGTGGTGCCCTTCATGAAGAAGACCTTTTACAAGAGGCTGCT
GCTCTACTTCATAGCTCTGGCGATTGGAACCCTCTACTCCAACGCCCTCTTCCAGCTCATCCCGGAGGCA
TTTGGTTTCAACCCTCTGGAAGATTATTATGTCTCCAAGTCTGCAGTGGTGTTTGGGGGCTTTTATCTTT
TCTTTTTCACAGAGAAGATCTTGAAGATTCTTCTTAAGCAGAAAAATGAGCATCATCATGGACACAGCCA
TTATGCCTCTGAGTCGCTTCCCTCCAAGAAGGACCAGGAGGAGGGGGTGATGGAGAAGCTGCAGAACGGG
GACCTGGACCACATGATTCCTCAGCACTGCAGCAGTGAGCTGGACGGCAAGGCGCCCATGGTGGACGAGA
AGGTCATTGTGGGCTCGCTCTCTGTGCAGGACCTGCAGGCTTCCCAGAGTGCTTGCTACTGGCTGAAAGG
TGTCCGCTACTCTGATATCGGCACTCTGGCCTGGATGATCACTCTGAGCGACGGCCTCCATAATTTCATC
GATGGCCTGGCCATCGGTGCTTCCTTCACTGTGTCAGTTTTCCAAGGCATCAGCACCTCGGTGGCCATCC
TCTGTGAGGAGTTCCCACATGAGCTAGGAGACTTTGTCATCCTGCTCAACGCTGGGATGAGCATCCAACA
AGCTCTCTTCTTCAACTTCCTTTCTGCCTGCTGCTGCTACCTGGGTCTGGCCTTTGGCATCCTGGCCGGC
AGCCACTTCTCTGCCAACTGGATTTTTGCGCTAGCTGGAGGAATGTTCTTGTATATTTCTCTGGCTGATA
TGATGGAGTTTTGCTCTGTTGCCCAGGCTGGAGTGCAATGGTGCCATCTCAGCTCACTGCAACCTCTGCC
GCTTGGGTTGAAGCGATTATCCTGTCTAAGCCTCCCGAGTAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

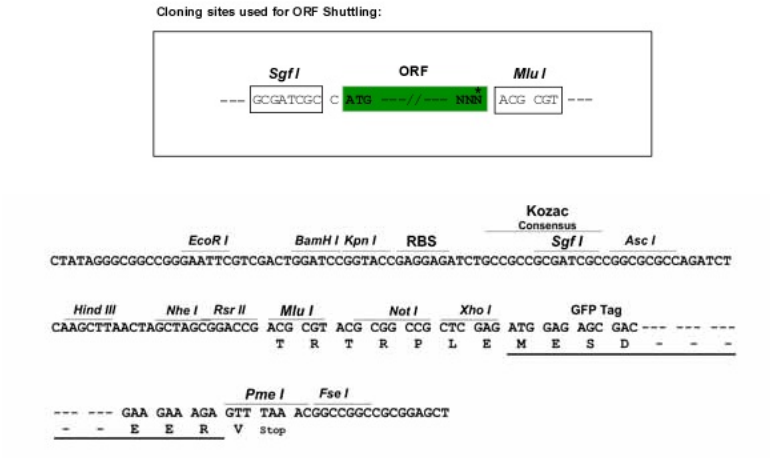
>RG225818 representing NM_001135154
Red=Cloning site Green=Tags(s)

MKLLLLHPAFQSCLLLTLLGLWRTTPEAHASSLGAPAISAASFLQDLIHRYGEGDSLTLQQLKALLNHLD
VGVGRGNVTQHVQGHRNLSTCFSSGDLFTAHNFSEQSRIGSSELQEFCPTILQQLDSRACTSENQENEEN
EQTEEGRPSAVEVWGYGLLCVTVISLCSLLGASVVPFMKKTFYKRLLLYFIALAIGTLYSNALFQLIPEA
FGFNPLEDYYVSKSAVVFGGFYLFFFTEKILKILLKQKNEHHHGHSHYASESLPSKKDQEEGVMEKLQNG
DLDHMIPQHCSSELDGKAPMVDEKVIVGSLSVQDLQASQSACYWLKGVRYSDIGTLAWMITLSDGLHNFI
DGLAIGASFTVSVFQGISTSVAILCEEFPHELGDFVILLNAGMSIQQALFFNFLSACCCYLGLAFGILAG
SHFSANWIFALAGGMFLYISLADMMEFCSVAQAGVQWCHLSSLQPLPLGLKRLSCLSLPSN

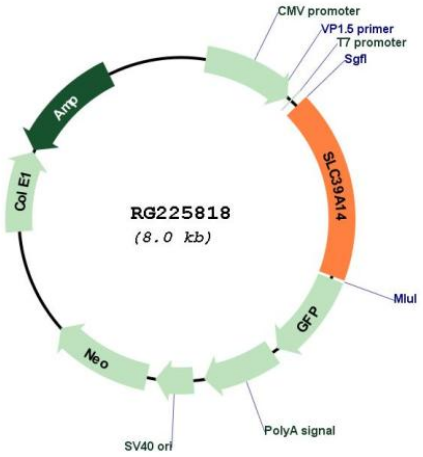
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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_001135154.3
RefSeq Size:	1793 bp
RefSeq ORF:	1446 bp
Locus ID:	23516
Cytogenetics:	8p21.3
Protein Families:	Transmembrane
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]