

Product datasheet for **RG206665**

SLC39A5 (NM_173596) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLC39A5
Synonyms:	LZT-Hs7; MYP24; ZIP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG206665 representing NM_173596
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGGTCCCCAGTGAGTCATCTGCTGGCCGGCTTCTGTGTGTGGGTCGTCTTGGGCTGGGTAGGGGGCT
 CAGTCCCCAACCTGGGCCCTGCTGAGCAGGAGCAGAACCATTACCTGGCCCAGCTGTTTGGCCTGTACGG
 CGAGAATGGGACGCTGACTGCAGGGGGCTTGGCGCGGCTTCTCCACAGCCTGGGGCTAGGCCGAGTTCAG
 GGGCTTCGCTGGGACAGCATGGGCCTCTGACTGGACGGGCTGCATCCCCAGCTGCAGACAATCCACAC
 ACAGGCCACAGAACCCTGAGCTGAGTGTGGATGCTGGGCAGGGATGCCCTGGGTCCCTCAGGGTGGG
 TGACCTGGAAGAGTCAAAGGCCCTCACCTACCCGTGGGCCAGCCCCCTCGGGCCTGGACCTCCTTCAC
 AGGCTTCTGTTGCTGGACCACTCATTGGCTGACCACCTGAATGAGGATTGTCTGAACGGCTCCCAGCTGC
 TGGTCAATTTTGGCTTGAAGCCGCTGCTCCTCTGACCCCTCGTCAGTTTGTCTGCTGTGCCACGCCCT
 GCTTTATCAGATCGACAGCCGCTGTCATCGGCGCTCCGGCCCCGCACCCCCAGGGGATCTACTATCT
 GCCCTGCTCAGAGTGCCTGGCAGTCTGTTGCTCAGCCTCCCTTCTCCCTATCCCTGCTGCTGCTGC
 GGCTCTGGGACCTCGTCTACTACGGCCCTTGTGGGCTTCTGGGGGCTTGGCGGTGGGCACTCTTTG
 TGGGGATGCACTGCTACATCTGCTACCGCATGCACAAGAAGGGCGGCACGACGACCTGGCGGACTACCA
 GAGAAGGACCTGGGCCCGGGCTGTAGTGCTCGGAGGCCCTTCTCTGCTCTTTGTGCTGGAGAATATGC
 TGGGGCTTTTGGCGCACCGAGGGCTCAGGCCAAGATGCTGCAGGCCAAAACGAAGGAATCTCGAAACACG
 CAACTTGGATCCGAGAATGGCAGTGGGATGGCCCTTACGCCCTACAGGCAGCTCCAGAGCCAGGGGCT
 CAGGGCCAGAGGGAGAAGAAGCCAGCAGCCACCAGCTCTGGCCCTCCTGGGCACCAAGGCCACAGTC
 ATGGGCACAGGGTGGCACTGATATCAGTGGATGGTCTCTGGGAGATGGTCTACACAACCTCACTGA
 TGGGCTGGCCATAGGTGCTGCCTTCTCTGATGGCTTCTCCAGCGGCTCAGTACCACCTTAGCGGTCTTC
 TGCCATGAGCTGCCCCACGAAGTGGTGACTTTGCCATGCTGCTCCAGTCAGGGCTGTCTTTCCGGCGC
 TGCTGCTGCTGAGCCTCGTGTCTGGAGCCCTGGGATTGGGGGTGCACTCTGGGGGTGGGGCTCAGCCT
 GGGCCCTGTCCCCCTACTCCCTGGGTGTTTGGGGTCACTGCTGGGGTCTTCTCTATGTGGCCCTTGTG
 GACATGCTACAGCCCTGCTTGTCTCTCCGAGCCCTGCCTACGCCCATGTGCTCTGCAAGGGGCTGG
 GGCTGCTGCTGGGGGGCGCCTCATGCTTGCCTAACCTGCTGGAGGAGCGGCTACTGCCCGTGACCAC
 TGAGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206665 representing NM_173596
 Red=Cloning site Green=Tags(s)

MGSPVSHLLAGFCVWVVLGWVGGSPVNLGPAEQEQNHLYAQLFGLYGENGLTAGGLARLLHSLGLGRVQ
 GLRLGQHGPLTGRAASPAADNSTHRPQNPELSVDVWAGMPLGPSGWGDLEESKAPHLPRGPAPSGDLHLH
 RLLLLDHLADHLNEDCLNGSQLLVNFGLSAAPLTPRQFALLCPALLYQIDSRVCIGAPAPAPPGDLS
 ALLQSALAVLLLSLPSLSLRLRLGPRLLRPLLGFLGALAVGTLCGDALLHLLPHAQEGRHAGPGGLP
 EKDLGPGLSVLGGLFLLFVLENMLGLLRHRGLRPRCRRKRRNLETRNLDPENSGMALQPLQAAPPEGA
 QQQREKNSQHPPALAPPGHQGHSHGHQGGTDITWMVLLGDGLHNLTDGLAIGAAFSDGFSGLSTTLAVF
 CHELPHELGDFAMLLQSGLSFRRLLLSLVSGALGLGGAVLGVGLSLGPVPLTPWVFGVTAGVFLYVALV
 DMLPALLRPPEPLPTPHVLLQGLGLLLGGGLMLAITLLEERLLPVTTEG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173596

ORF Size: 1617 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_173596.1](#), [NP_775867.1](#)

RefSeq Size: 1895 bp

RefSeq ORF: 1623 bp

Locus ID: 283375

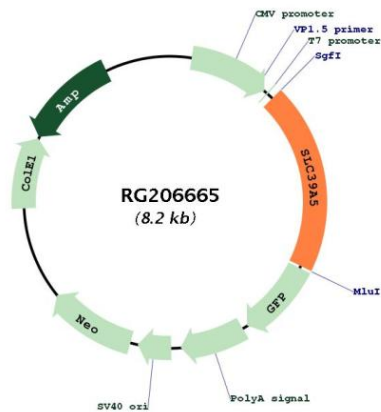
UniProt ID: [Q6ZMH5](#)

Cytogenetics: 12q13.3

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene belongs to the ZIP family of zinc transporters that transport zinc into cells from outside, and play a crucial role in controlling intracellular zinc levels. Zinc is an essential cofactor for many enzymes and proteins involved in gene transcription, growth, development and differentiation. Mutations in this gene have been associated with autosomal dominant high myopia (MYP24). Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2014]

Product images:



Circular map for RG206665