

Product datasheet for **RC225926**

SLC39A5 (NM_001135195) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A5 (NM_001135195) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC39A5
Synonyms:	LZT-Hs7; MYP24; ZIP5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC225926 representing NM_001135195
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGGGGTCCCAGTGAATCATCTGCTGGCCGGCTTCTGTGTGGGTGCTCTGGGCTGGGTAGGGG
 GCTCAGTCCCAACCTGGGCCCTGCTGAGCAGGAGCAGAACCATTACCTGGCCCAGCTGTTGGCCGTGA
 CGGCGAGAATGGGACGCTGACTGACGGGGCTTGGCGCGCTTCTCCACAGCCTGGGGCTAGGCCGAGTT
 CAGGGGCTTCGCCTGGGACAGCATGGGCCCTGACTGGACGGGCTGCATCCCCAGCTGCAGACAATTCCA
 CACACAGGCCACAGAACCCTGAGCTGAGTGTGGATGTCTGGCAGGGATGCCTCTGGGTCCTCAGGGTG
 GGGTGACCTGGAAGAGTCAAAGGCCCTCACCTACCCCGTGGGCCAGCCCCCTCGGGCTGGACCTCCTT
 CACAGGCTTCTGTGCTGGACCACTATTGGCTGACCACCTGAATGAGGATTGTCTGAACGGCTCCCAGC
 TGCTGGTCAATTTGGCTTGAGCCCGCTGCTCCTCTGACCCCTCGTCAGTTTGTCTGTGTGCCAGC
 CCTGCTTTATCAGATCGACAGCCGCTGTCATCGGCGCTCCGGCCCTGCACCCCAGGGGATCTACTA
 TCTGCCCTGCTTCAGAGTGCCTGGCAGTCTGTTGCTCAGCCTCCCTTCTCCCTATCCCTGCTGCTGC
 TGGCGCTCCTGGGACCTCGTCTACTACGGCCCTTGTGGGCTTCTGGGGCCCTGGCGGTGGGCACTCT
 TTGTGGGGATGCACTGCTACATCTGCTACCGCATGCACAAGAAGGGCGGCACGCAGGACCTGGCGGACTA
 CCAGAGAAGGACCTGGGCCCGGGCTGTGAGTCTCGGAGGCCTTCTCTGCTCTTTGTGCTGGAGAACA
 TGCTGGGGCTTTTGGCGCACCGAGGGCTCAGGCCAAGATGCTGCAGGCGAAAACGAAGGAATCTCGAAAC
 ACGCAACTTGGATCCGGAGAATGGCAGTGGGATGGCCCTCAGCCCTACAGGCAGCTCCAGAGCCAGGG
 GCTCAGGGCCAGAGGAGAAGAACAGCCAGCACCACAGCTCTGGCCCTCCTGGGCACCAAGGCCACA
 TGATGGGCTGGCCATAGGTGCTGCCTTCTGATGGCTTCTCCAGCGCCCTCAGTACCACCTTAGCGGTC
 TTCTGCCATGAGCTGCCCCACGAACTGGGTGACTTTGCCATGCTGCTCCAGTCAGGGCTGTCTTTGCGC
 GGCTGCTGCTGCTGAGCCTCGTGTCTGGAGCCCTGGGATTGGGGGTGCAGTCTGGGGTGGGGCTCAG
 CCTGGGCCCTGTCCCCTCACTCCCTGGGTGTTTGGGGTCACTGCTGGGGTCTTCTCTATGTGGCCCTT
 GTGGACATGCTACCAGCCCTGCTTCGCTCCTCCGGAGCCCTGCCTACGCCCATGTGCTCCTGCAGGGGC
 TGGGGTCTGCTGGGGGCGGCTCATGCTTGCATAACCCTGCTGGAGGAGCGGCTACTGCCCGTGAC
 CACTGAGGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225926 representing NM_001135195
 Red=Cloning site Green=Tags(s)

MMGSPVSHLLAGFCVWVVLGWVGGVSNLGPAEQEQNHLYAQLFGLYGENGTLTAGGLARLLHSLGLGRV
 QGLRLGQHGPLTGRAASPAADNSTHRPQNPESVDVWAGMPLGPSGWGDLEESKAPHLPRGPAPSGLDLL
 HRLLLLDHSLADHLNEDCLNGSQLLVNFGLSAAPLTPRQFALLCPALLYQIDSRVICIGAPAPPPGDL
 SALLQSALAVLLLSLPSPLSLLLLRLLGPRLRPLLGLGALAVGTLCGDALLHLLPHAQGRHAGPGGL
 PEKDLGPGLSVLGGFLFLVLENMLGLLRHRGLRPRCCRKRNRNLETRNLDPENSGSMALQPLQAAPEPG
 AQQQREKNSQHPPALAPPGHQGHSHGHQGGTDITWMVLLGDGLHNLTDGLAIGAAFSDGFSSGLSTTLAV
 FCHELPHELGDFAMLLQSGLSFRRLLLSLVSGALGLGGAVLGVGLSLGPVPLTPWVFGVTAGVFLYVAL
 VDMLPALLRPPEPLTPHVLLQGLGLLLGGMLAITLLEERLLPVTTEG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

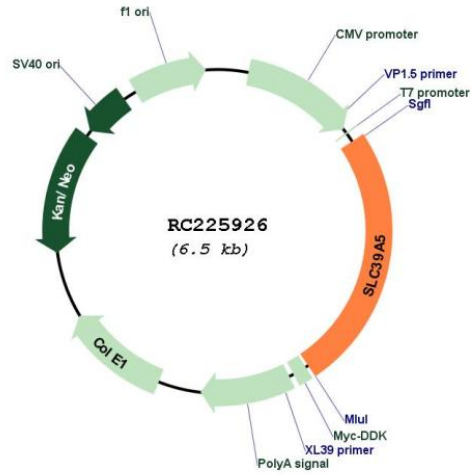
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001135195
ORF Size:	1620 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:	<ol style="list-style-type: none">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_001135195.1 , NP_001128667.1
RefSeq Size:	1985 bp
RefSeq ORF:	1623 bp
Locus ID:	283375
UniProt ID:	Q6ZMH5
Cytogenetics:	12q13.3
Protein Families:	Transmembrane
MW:	56.5 kDa
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]