

Product datasheet for RC201293

SLC39A3 (NM_144564) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A3 (NM_144564) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC39A3
Synonyms:	ZIP-3; ZIP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201293 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGTGAAATTGCTAGTGGCCAAAATCCTGTGCATGGTGGGCGTGTCTTCTTCATGCTGCTCGGCTCCC
 TGCTCCCCGTGAAGATCATCGAGACAGATTTTGAGAAGGCCCATCGCTCGAAAAAGATCCTCTCTCTG
 CAACACCTTTGGAGGAGGGGTGTTCTGGCCACGTGCTTCAACGCTCTGCTGCCCGCTGTGAGGGAAAAG
 CTCCAGAAGGTCCTGAGCCTCGGCCACATCAGCACCGACTACCCGCTGGCCGAAACCATCCTCCTGCTGG
 GCTTCTTCATGACCGTCTTCTGGAGCAGCTGATCCTGACCTTCCGCAAGGAGAAGCCGCTCTTCATCGA
 CCTGGAGACCTTCAACGCCGGATCGGACGTGGGCAGCGACTCGGAGTATGAGAGCCCTTCATGGGGGGC
 GCGCGGGGCCACGCGCTGTACGTGGAGCCCCACGGCCACGGCCCCAGCCTGAGCGTGCAGGGCCTCTCGC
 GCGCCAGCCCCGTGCGCCTGCTCAGCCTGGCCTTCGCGCTGTGCGCCCACTCGGTCTTTGAGGGCCTGGC
 CCTGGGCTGCAGGAGGAGGGGGAGAAAGTGGTGAACCTGTTCTGTGGGGTGGCCGTCCACGAGACACTG
 GTGGCCGTGGCCCTGGGCATCAGCATGGCCCGAGTGCCATGCCCTGCGGGACGCGGCCAAGCTGGCGG
 TCACCGTAAGCGCCATGATCCCCCTGGGCATCGGCCTGGCCTGGGCATTGAGAGCGCCAGGGCGTGCC
 GGGCAGCGTGGCGTCCGTGCTGCTGCAGGGCCTGGCGGGCGGCACCTTCTTTCATCACCTTCTGGAG
 ATCCTGGCCAAGGAGCTGGAGGAGAAGAGTGACCGTCTGCTCAAGGTCTTCTTGGTGGTGGCTACA
 CCGTCTGGCCGGGATGGTCTTCTCAAGTGG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC201293 protein sequence
 Red=Cloning site Green=Tags(s)

MVKLLVAKILCMVGVEFFMLLGSLLPVKIIETDFEKAHRSKKILSLCNTFGGGVFLATCFNALLPAVREK
 LQKVLSLGHISTDYPLAETILLGFFMTVFLEQLILTFRKEKPSFIDLETNAGSDVGSSEYSPFMGG
 ARGHALYVEPHGHGSPSLSVQGLSRASPVRLLSLAFALSAHSVFEGALGLQEEGEKVVSFLFVGAVHETL
 VAVALGISMARSAMPLRDAAKLAVTVSAMIPLGIGLGLGIESAQGVPGSVASVLLQGLAGGTFLFITFLE
 ILAKELEEKSDRLLKVLFLVLGYTVLAGMVFLKW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6557_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144564

ORF Size: 942 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_144564.5](#)

RefSeq Size: 1441 bp

RefSeq ORF: 945 bp

Locus ID: 29985

UniProt ID: [Q9BRY0](#)

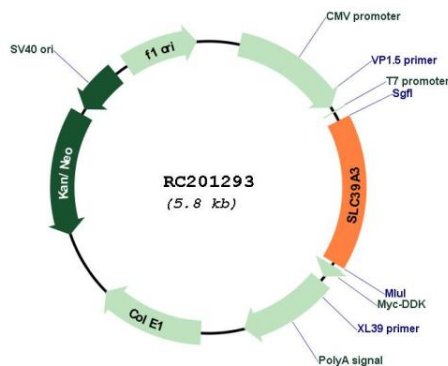
Cytogenetics: 19p13.3

Protein Families: Transmembrane

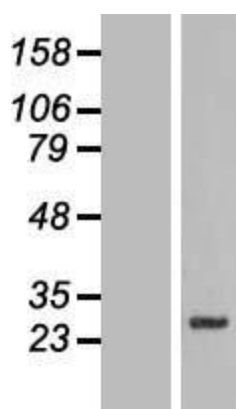
MW: 33.6 kDa

Gene Summary: Acts as a zinc-influx transporter.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC201293



Western blot validation of overexpression lysate (Cat# [LY408274]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201293 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).