

Product datasheet for **RC233239**

SLC30A5 (NM_001251969) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC30A5 (NM_001251969) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SLC30A5
Synonyms: ZnT-5; ZNT5; ZNTL1; ZTL1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC233239 representing NM_001251969
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGAAATACGGCGGGGACGTGCTGGCCGGCCCCGGCGGGCGGCCTTGGGCCGTGGACG
TACCCAGCGCTCGGACTGCATTTTTATGGTTTGTTCAAAAGCCATTTCTTCTGGGAAACTATTAC
CAACACCAGATAATTGGATCACTAAAAATTCCTGGTAGAAAAGAATTTAAAGACAAAAGTTAAATGAT
CCTAGGAACTAGTGGGAAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC233239 representing NM_001251969
Red=Cloning site **Green**=Tags(s)

MEEKYGGDVLAGPGGGGLGPVDVPSARTAFFMVL FQKPFSSGKTITKHQIIGSLKIPGRKEFKDKKLND
PRKLVGN

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:



ACCN: NM_001251969

ORF Size: 231 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_001251969.2](#)

RefSeq Size: 1256 bp

RefSeq ORF: 234 bp

Locus ID: 64924

UniProt ID: [Q8TAD4](#)

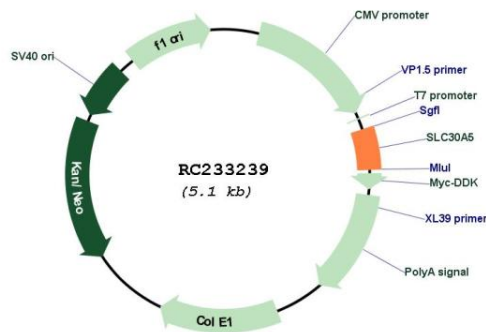
Cytogenetics: 5q13.1-q13.2

Protein Families: Transmembrane

MW: 8.7 kDa

Gene Summary: This gene encodes a member of the SLC30A/ZnT family of zinc transporter proteins. ZnT proteins mediate both cellular zinc efflux and zinc sequestration into membrane-bound organelles. The encoded protein plays a role in the early secretory pathway as a heterodimer with zinc transporter 6, and may also regulate zinc sequestration into secretory granules of pancreatic beta cells. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 19. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RC233239