

## Product datasheet for RC233762

### SLC39A1 (NM\_001271958) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A1 (NM_001271958) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC39A1
Synonyms:	ZIP1; ZIRTL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233762 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGCCCTGGGGAGAGCCAGAGCTCCTGGTGTGGCGCCCGAGGCGGTAGCTTCAGAGCCTCCAGTGC  
CTGTGGGGCTGGAGGTGAAGTTGGGGCCCTGGTGTCTGTGGTGTCCACCCTCTGCAGCCTGGT  
GCCATCTGTGTCTGCGCCGGCCAGGAGCTAACCATGAAGGCTCAGCTCCCGCCAGAAAGCCCTGAGC  
CTAGTAAGCTGTTTCGCGGGGGCGTCTTTTGGCCACTTGTCTCCTGGACCTGCTGCCTGACTACCTGG  
CTGCCATAGATGAGGCCCTGGCAGCCTTGACGTGACGCTCCAGTCCCAGTGAAGAGTTCATCCTGGC  
CATGGGCTTCTTCTGGTCTGGTATGGAGCAGATCACACTGGCTTACAAGGAGCAGTCAGGGCCGTCA  
CCTCTGGAGAAACAAGGGCTCTGCTGGGAACAGTGAATGGTGGGCCGAGCATTGGCATGATGGGCCAG  
GGTCCCACAGGCGAGTGGAGCCCCAGCAACCCCTCAGCCTTGGCGTGCCTGTGTACTGGTGTCTCCCT  
GGCCCTCCACTCCGTGTTTCGAGGGGCTGGCGGTAGGGCTGCAGCGAGACCGGGCTCGGGCCATGGAGCTG  
TGCCTGGCTTTGCTGCTCCACAAGGGCATCCTGGCTGTCAGCCTGTCCCTGCGGCTGTTGCAGAGCCACC  
TTAGGGCACAGGTGGTGGCTGGCTGTGGGATCCTTCTCATGCATGACACCTTAGGCATCGGGCTGGG  
TGCAGCTCTGGCAGAGTCGGCAGGACCTTGCACCAGCTGGCCAGTCTGTGCTAGAGGGCATGGCAGCT  
GGCACCTTCTCTATATCACCTTCTGGAAATCCTGCCCCAGGAGCTGGCCAGTCTGAGCAAAGGATCC  
TCAAGGTATTCTGCTCCTAGCAGGCTTTGCCCTGCTCACTGGCCTGCTCTTCATCCAAATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC233762 protein sequence  
 Red=Cloning site Green=Tags(s)

MGPWGEPELLVWRPEAVASEPPVPVGLVLEKLGALVLLLVLTLLCSLVPICVLRPPGANHEGSASRQKALS  
 LVSCFAGGVFLATCLLDLLPDYLAIDEALAALHVTLQFPLQEFILAMGFFLVLMVEQITLAYKEQSGPS  
 PLEETRALLGTVNGGPQHWHDGPGVPOASGAPATPSALRACVLFSLALHSVFEGELAVGLQRDRAMEL  
 CLALLLHKGILAVSLSLRLLQSHLRAQVVAGCGILFSCMTPLGIGLGAALAESAGPLHQLAQSVLEGMAA  
 GTFLYITFLEILPQELASSEQRILKVILLLAGFALLTGLLFIQI

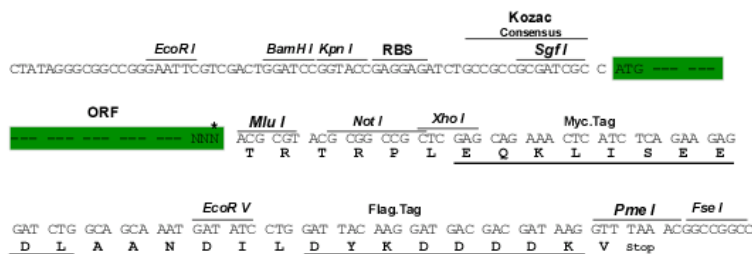
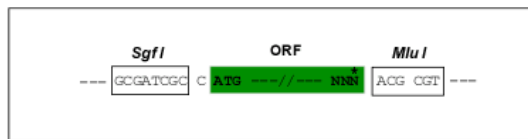
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6424\\_c01.zip](https://cdn.origene.com/chromatograms/mk6424_c01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001271958

**ORF Size:** 972 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\\_001271958.2](#)

**RefSeq Size:** 2155 bp

**RefSeq ORF:** 975 bp

**Locus ID:** 27173

**UniProt ID:** [Q9NY26](#)

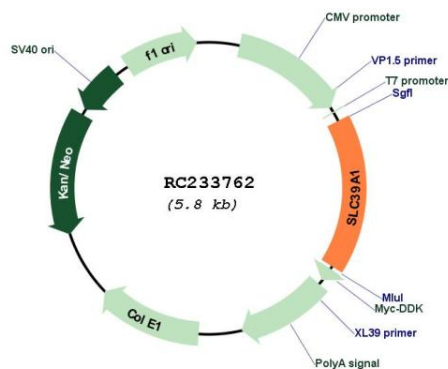
**Cytogenetics:** 1q21.3

**Protein Families:** Transmembrane

**MW:** 34.2 kDa

**Gene Summary:** This gene encodes a member of the zinc-iron permease family. The encoded protein is localized to the cell membrane and acts as a zinc uptake transporter. This gene has been linked to prostate cancer, breast cancer, and Alzheimer's disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2012]

### Product images:



Circular map for RC233762