

## Product datasheet for **RC205572**

### SLC30A4 (NM\_013309) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC30A4 (NM_013309) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC30A4
Synonyms:	znT-4; ZNT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC205572 representing NM\_013309  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGGCTCTGGCGCTGGAAGCGCCTCAAATCTATGCTAAGGAAGGATGATGCGCCGCTGTTTTTAA  
 ATGACACCAGCGCCTTTGACTTCTCGGATGAGGCGGGGACGAGGGGCTTCTCGGTTCAACAACTTCG  
 AGTTGTGGTGGCCGATGACGGTCCGAAGCCCGAAAGCCTGTTAACGGGGCGCACCCGACCCTCCAG  
 GCCGACGATGATTCCTTACTGGACCAAGACTTACCTTTGACCAACAGTCAGCTGAGTTTGAAGTGGACT  
 CCTGTGACAACTGCAGCAACAGAGAGAGATACTGAAGCAGAGAAAGGTGAAAGCCAGGTTGACCATTGC  
 TGCCGTTCTGACTTGTCTTTTCATGATTGGAGAACTTGTAGGTGGATACATTGCAAATAGCCTAGCAATC  
 ATGACAGATGCACTTCATATGTTAACTGACCTAAGCGCCATCATACTCACCTGCTTGTCTTGTGGCTAT  
 CATCAAAATCACCAACAAAAGATTACCTTTGGATTTTCATCGCTTAGAGTTTTGTGAGCTATGATTAG  
 TGTGCTGTTGGTGTATATACTTATGGGATTCCTCTTATATGAAGCTGTGCAAAGAACTATCCATATGAAC  
 TATGAAATAAATGGAGATATAATGCTCATCCCGCAGCTGTTGGAGTTGCAGTTAATGTAATAATGGGGT  
 TTCTGTTGAACAGTCTGGTCACCGTCACTCCCATTCCCCTCCCTGCCTTCAAATTCCTTACCAGAGG  
 TTCTGGGTGTGAACGTAACCATGGGCGAGGATAGCCTGGCAGTGAGAGCTGCATTTGTACATGCTTTGGGA  
 GATTTGGTACAGAGTGTGGTGTGCTAATAGCTGCATACATACGATTCAAGCCAGAATAACAAGATTG  
 CTGACCCCATCTGTACATACGATTTTTCATTACTTGTGGCTTTTACAACATTTGCAATCATATGGGATC  
 AGTAGTTATAATACTAGAAGGTGTGCCAAGCCATTTGAATGTAGACTATATCAAAGAAGCCTTGTGAAA  
 ATAGAAGATGTATTTCCAGTCAAGATTTAAATATCTGGTCTCTCACTTCAGGAAAATCTACTGCCATAG  
 TTCACATACAGCTAATTCCTGGAAGTTCATCTAAATGGGAGGAAGTACAGTCCAAAGCAAACCATTTATT  
 ATTGAACACATTTGGCATGTATAGATGTACTATTAGCTTCAGAGTTACAGGCAAGAAGTGGACAGAAGT  
 TGTCAAATTTGTGAGTCTTAGTCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC205572 representing NM\_013309  
 Red=Cloning site Green=Tags(s)

MAGSGAWKRLKSMRLKDDAPLFLNDTSADFSDSDEAGDEGLSRFNKLRVVVADDGSEAPERPVNGAHPTLQ  
 ADDDSLDDQDLPLTNSQLSLKVDSCDNCQREILKQRKVKARLTIAAVLYLLFMIGELVGGYIANS LAI  
 MTDALHMLTDL SAIIL TLLALWLSKSPTKRFTFGFHRLEVL SAMISVLLVYILMGFLL YEAVQRTIHMN  
 YEINGDIMLITAAVGAVNVIMGFLLNQSGHRHSHSHSLPSNSPTRGSGCERNHGQDSLAVRAAFVHALG  
 DLVQSVGLIAAYIIRFKPEYKIADPICTYVFSLLVAFVTFRIIWDTVVIILEGVPSHLNVDYIKEALMK  
 IEDVYSVEDLNIWLSLTSKSTAIVHIQLIPGSSSKWEEVQSKANHLLNLTFGMYRCTIQLQSYRQEVDR  
 CANCQSSSP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8120\\_h12.zip](https://cdn.origene.com/chromatograms/mk8120_h12.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_013309

ORF Size: 1287 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\\_013309.6](#)

RefSeq Size: 4290 bp

RefSeq ORF: 1290 bp

Locus ID: 7782

UniProt ID: [O14863](#)

Cytogenetics: 15q21.1

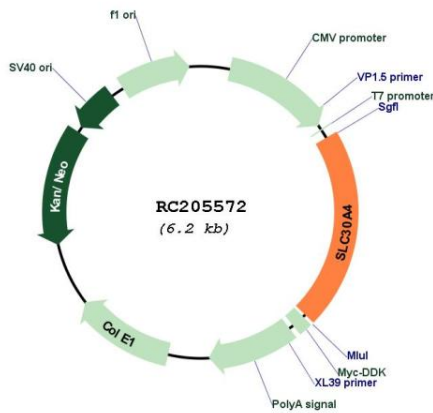
**Domains:** Cation\_efflux

**Protein Families:** Transmembrane

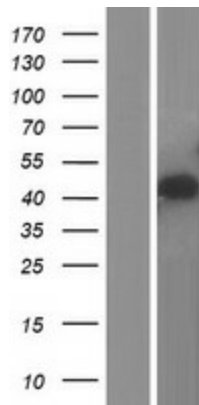
**MW:** 47.9 kDa

**Gene Summary:** Zinc is the second most abundant trace metal in the human body. It is an essential element, serving both a structural role, as in the formation of zinc fingers in DNA-binding proteins, and a catalytic role in metalloenzymes, such as pancreatic carboxypeptidases (e.g., MIM 114852), alkaline phosphatases (e.g., MIM 171760), various dehydrogenases, and superoxide dismutases (e.g., MIM 147450). SLC30A4, or ZNT4, belongs to the ZNT family of zinc transporters. ZNTs are involved in transporting zinc out of the cytoplasm and have similar structures, consisting of 6 transmembrane domains and a histidine-rich cytoplasmic loop (Huang and Gitschier, 1997 [PubMed 9354792]).[supplied by OMIM, Mar 2008]

**Product images:**



Circular map for RC205572



Western blot validation of overexpression lysate (Cat# [LY415673]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205572 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).