

Product datasheet for **RG205572**

SLC30A4 (NM_013309) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC30A4 (NM_013309) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC30A4
Synonyms:	znT-4; ZNT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205572 representing NM_013309 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGCTCTGGCGGTGGAAGCGCCTCAAATCTATGCTAAGGAAGGATGATGCGCCGCTGTTTTTAA
ATGACACCAGCGCCTTTGACTTCTCGGATGAGGCGGGGACGAGGGGCTTCTCGGTTCAACAACTTCG
AGTTGTGGTGGCCGATGACGGTCCGAAGCCCCGAAAGGCTGTTAACGGGGCGCACCCGACCCTCCAG
GCCGACGATGATTCCTTACTGGACCAAGACTTACCTTTGACCAACAGTCAGCTGAGTTTGAAGGTGGACT
CCTGTGACAACTGCAGCAACAGAGAGAGATACTGAAGCAGAGAAAGGTGAAAGCCAGGTTGACCATTGC
TGCCGTTCTGTACTTGTCTTTCATGATTGGAGAACTTGTAGGTGGATACATTGCAAAATAGCTAGCAATC
ATGACAGATGCACCTTCATATGTTAACTGACCTAAGCGCCATCATACTCACCTGCTTGTCTTGTGGCTAT
CATCAAAATCACCAACAAAAGATTACCTTTGGATTTTCATCGCTTAGAGGTTTTGTGAGCTATGATTAG
TGTGCTGTTGGTGTATATACTTATGGGATTCCTTATATGAAGCTGTGCAAAGAAGCTATCCATATGAAC
TATGAAATAAATGGAGATATAATGCTCATCACCGCAGCTGTTGGAGTTGCAGTTAATGTAATAATGGGGT
TTCTGTTGAACCAAGTCTGGTCCCGTCACTCCATTCCCACTCCCTGCCTTCAAATCCCCTACCAGAGG
TTCTGGGTGTGAACGTAACCATGGGCAGGATAGCCTGGCAGTGAGAGCTGCATTTGTACATGCTTTGGGA
GATTTGGTACAGAGTGTGGTGTCTAATAGCTGCATACATACGATTCAAGCCAGAATACAAGATTG
CTGACCCCATCTGTACATACGTATTTTCACTTACTTGTGGCTTTTACAACATTTTCAATCATATGGGATAC
AGTAGTTATAATACTAGAAGGTGTGCCAAGCCATTTGAATGTAGACTATATCAAAGAAGCCTTGATGAAA
ATAGAAGATGTATATTCAGTCGAAGATTTAAATATCTGGTCTCTCACTTCAGGAAAATCTACTGCCATAG
TTCACATACAGCTAATTCCTGGAAGTTCATCTAAATGGGAGGAAGTACAGTCCAAGCAAACCTTTATT
ATTGAACACATTTGGCATGTATAGATGTACTATTCAGCTTCAGAGTTACAGGCAAGAAGTGGACAGAAGT
TGTGCAAATGTCAGAGTTCTAGTCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205572 representing NM_013309
Red=Cloning site Green=Tags(s)

MAGSGAWKRLKSMRLRKDDAPLFLNDFSAFDFDSEAGDEGLSRFNKLRVVVADDGSEAPERPVNGAHPTLQ
 ADDDSLDDQDLPLTNSQLSLKVDSCDNCQREILKQRKVKARLTIAAVLYLLFMIGELVGGYIANS LAI
 MTDALHMLTDL SAIIL TLLALWLSKSPTKRFTFGFHRLEVL SAMISVLLVYILMGFLL YEAVQRTIHMN
 YEINGDIMLITA AVGVAVNVIMGFLLNQSGHRHSHSLPSNSPTRGSGCERNHGQDSLAVRAAFVHALG
 DLVQSVGLIAAYIIRFKPEYKIADPICTYVFSLLVAF TTFRIIWDTVV IILEGVPSHLNVDYIKEALMK
 IEDVYSVEDLNIWLSLTS GKSTAI VHIQLIPGSSSKWEEVQSKANHLL LNTFGMYRCTIQLQSYRQEVDR T
 CANCQSSSP

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

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](#)

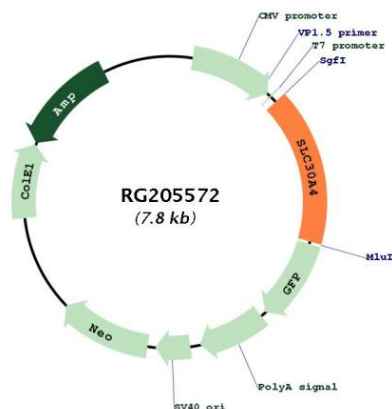
Cytogenetics: 15q21.1

Domains: Cation_efflux

Protein Families: Transmembrane

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 RG205572