

Product datasheet for **RG215616**

ZnT1 (SLC30A1) (NM_021194) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZnT1 (SLC30A1) (NM_021194) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZnT1
Synonyms:	ZNT1; ZRC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215616 representing NM_021194
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGTGTGGGGTCGGAACCGGGGCCGGCTGCTGTGCATGCTGGCGTGACCTTCATGTTTCATGGTG
 TGGAGGTGGTGGTGAGCCGGGTGACCTCGCTGCGTGGCGATGCTCTCCGACTCCTTCCACATGCTGTGGGA
 CGTGCTGGCGCTGGTGGTGGCGCTGGTGGCCGAGCGCTTCGCCCGGCGGACCCACGCCACCCAGAAGAAC
 ACGTTCGGCTGGATCCGAGCCGAGGTAATGGGGGCTCTGGTGAACGCCATCTTCTGACTGGCCTCTGTT
 TCGCCATCCTGCTGGAGGCCATCGAGCGCTTCATCGAGCCGCACGAGATGCAGCAGCCGCTGGTGGTCT
 TGGGGTCGGCGTGGCCGGGCTGCTGGTCAACGTGCTGGGGCTCTGCCTCTTCCACCATCACAGCGGCTTC
 AGCCAGGACTCCGGCCACGGCCACTCGCACGGGGGTACGGCCACGGCCACGGCTCCCCAAGGGGCCTC
 GCGTTAAGAGCACCCGCCCGGGAGCAGCGACATCAACGTGGCCCGGGCGAGCAGGGTCCCGACCAGGA
 GGAGACCAACACCCTGGTGGCCAATACCAGCAACTCCAACGGGCTGAAATTGGACCCCGCAGACCAGAA
 AACCCAGAAAGTGGTGATACAGTGGAAGTACAAGTGAATGGAAATCTTGTGAGAGAACCTGACCATATGG
 AACTGGAAGAAGATAGGGCTGGACAACCTAACATGCGTGGAGTTTTTCTGCATGTCCTTGAGATGCCTT
 GGGTTCAGTGATTGTAGTAGTAAATGCCTTAGTCTTTTACTTTTCTTGGAAAGGTTGTTCTGAAGGGGAT
 TTTTGTGTGAATCCATGTTTCCCTGACCCTGCAAAGCATTGTAGAAATAATTAATAGTACTCATGCAT
 CAGTTTATGAGGCTGGTCTTGTGGTGTCTATATTTAGATCCAACCTCTTGTGTTGAATGGTTTGTAT
 ACTTCTTTACACAACCTATCCATTACTTAAGGAATCTGCTCTTATTCTTCTACAACTGTTCTTAAACAA
 ATTGATATCAGAAATTTGATAAAGAACTTCGAAATGTTGAAGGAGTTGAGGAAGTTCATGAATTACATG
 TTTGGCAACTTGCTGGAAGCAGAATCATTGCCACTGCTCACATAAAATGTGAAGATCCAACATCATACAT
 GGAGGTGGCTAAAACCATTAAGAGCGTTTTTCATAATCACGGAATTCACGCTACTACCATTCAGCCTGAA
 TTTGCTAGTGTAGGCTCTAAATCAAGTGTAGTTCCGTGTGAACCTGCCTGCAGAACCCAGTGTGCTTTGA
 AGCAATGTTGTGGGACACTACCACAAGCCCTTCTGAAAGGATGCAGAAAAGACCCAGCAGTTAGCAT
 TTCTTGTTTGAAGCTTAGTAACAATCTAGAGAAGAAGCCAGGAGGACTAAAGCTGAAAACATCCCTGCT
 GTTGATAGAGATTAACCATGCCAAACAACCTGAATCATCTTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

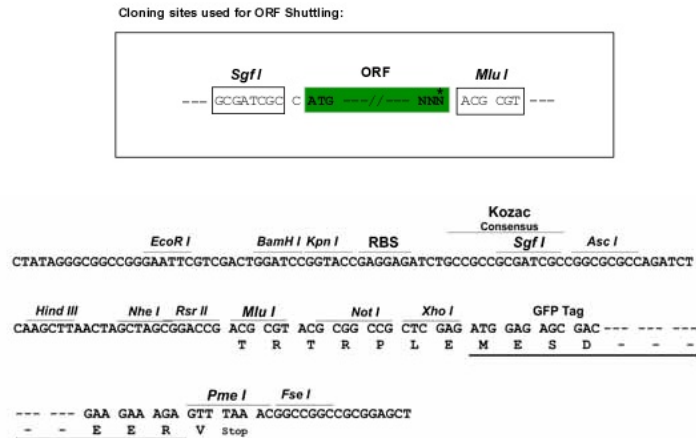
>RG215616 representing NM_021194
 Red=Cloning site Green=Tags(s)

MGCWGRNRGRLLCMLALTFMFMVLEVVSRTSSLAMLSDSFHMLSDVLALVVALVAERFARRTHATQKN
 TFGWIRAEVMGALVNAIFLTGLCFAILLEAIERFIEPHEMQQPLVVLGVGVAGLLVNVGLCLFHHHSGF
 SQDSGHGSHGGHGHGHLPGKPRVKSTRPGSSDINVAPGEQGPDQEETNTLVANTSNSNGLKLDPADPE
 NPRSGDTVEVQVNGNLVREPDHMELEEDRAGQLNMRGVFLHVLGDALGSVIVVNVNLVFYFSWKGCSEGD
 FCVNPCFPDPCKAFVEIINSTHASVYEAGPCWVLYLDPTLCVVMVCILLYTTYPLLKESALILLQTVPKQ
 IDIRNLIKELRNVEGVVEVHELHVWQLAGSRIIATAHIKCEDPTSYMEVAKTIKDVFNHNGIHATTIQPE
 FASVGSKSSVPCELACRTQCALKQCCGTLPQAPSGKDAEKTPAVSISCLELSNNLEKKPRRTKAENIPA
 VVIEIKNMPNKQPESL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_021194

ORF Size: 1521 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_021194.3](#)

RefSeq Size: 2034 bp

RefSeq ORF: 1524 bp

Locus ID: 7779

UniProt ID: [Q9Y6M5](#)

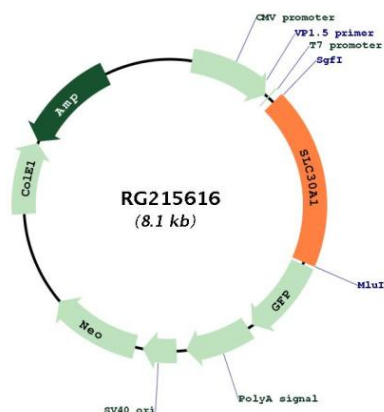
Cytogenetics: 1q32.3

Domains: Cation_efflux

Protein Families: Transmembrane

Gene Summary: May be involved in zinc transport out of the cell.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG215616