

## Product datasheet for **RC216288**

### Znt6 (SLC30A6) (NM\_017964) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Znt6 (SLC30A6) (NM_017964) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Znt6
Synonyms:	MST103; MSTP103; ZNT6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC216288 representing NM\_017964  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGGACAATTCATCTCTTTTCGAAAACCAACAAGATCCTTTTTGGCAAGTTGTTACGGGAATTTAGAC  
 TTGTAGCAGCTGACCGAAGGTCCTGGAAGATACTGCTCTTTGGTGAATAAACTTGATATGTAAGGCTT  
 CCTGCTTATGTGGTGCAGTTCTACTAATAGTATAGCTTTAACTGCCTATACTTACCTGACCATTTTTGAT  
 CTTTTTAGTTAATGACATGTTAATAAGTTACTGGGTAACATTGAGGAAACCTAGCCCTGTCTATTCAT  
 TTGGGTTTGAAGATTAGAAGTCTGGCTGATTTGCCTCCACAGTCTTGGCACAGTTGGGAGCTCTCTT  
 TATATTAAGAAAGTGCAGAACGCTTTTTGGAACAGCCCGAGATACACACGGGAAGATTATTAGTTGGT  
 ACTTTTGGCTCTTTGTTTCAACCTGTTACGATGCTTCTATTGGAATAAACCTTTTGCTTATGTCT  
 CAGAAGCTGCTAGTACGAGCTGGCTTCAAGAGCATGTTGCAGATCTTAGTGAAGCTTGTGTGAATTAT  
 TCCGGGACTTAGCAGTATCTTCTTCCCGAATGAATCCATTTGTTTTGATTGATCTTGTGGAGCATT  
 GCTCTTTGTATTACATATATGCTCATTGAAATTAATAATTTTTGCCGTAGACACTGCCTCTGCTATAG  
 CTATTGCCTTGATGACATTTGGCACTATGTATCCCATGAGTGTGTACAGTGGGAAAGTCTTACTCCAGAC  
 AACACCACCCATGTTATTGGTCAGTTGGACAACTCATCAGAGAGGTATCTACCTTAGATGGAGTTTTA  
 GAAGTCCGAAATGAACATTTTTGGACCCTAGGTTTTGGCTCATTGGCTGGATCAGTGCATGTAAGAATTC  
 GACGAGATGCCAATGAACAAATGGTCTTGCTCATGTGACCAACAGGCTGTACACTCTAGTGTCTACTCT  
 AACTGTTCAAATTTCAAGGATGACTGGATTAGGCCTGCCTATTGTCTGGGCTGTTGCAGCCAATGTC  
 CTAACACTCCAGTAAACCTAGTAGTCCACCTCCAGAATTTTCATTTAACACTCCTGGGAAAAATGTGAA  
 CCAGTTATTCTTAAACACACAAACAAGGCCTTATGGTTTTGGTCTCAATCATGGACACACACCTTAC  
 AGCAGCATGCTTAATCAAGGACTTGAGTTCAGGAATTGGAGCAACTCAAGATTGAGGACTGGTTTTTA  
 CAAATATACCAAGTAGATATGGAACATAATAAGAATTGGACAACCAAGACCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC216288 representing NM\_017964  
 Red=Cloning site Green=Tags(s)

MGTIHLFRKPQRSFFGKLLREFRLVAADRRSWKILLFGVINLICTGFLMWCSTNSIALTAYTYLTI  
 LFSMLTCLISYWTLRKPSVYSFGERLEVLAVFASTVLAQLGALFILKESAERFLEQPEIHTGRLLVG  
 TFVALCFNLFTMLSIRNKPFAYVSEAASTSWLQEHVADLSRSLCGIIPGLSSIFLPRMNPVFLIDL  
 AGLAGAFALCITYMLIEINNYFAVDTASAIAlALMTFGTMYPMSVYSGKVLQTPPHVIGQLDKL  
 IREVSTLDGVL EVRNEHFWTLGFGLAGSVHVRIRRDANEQMLAHVTNRLYTLVSTLTVQIFKDDWIR  
 PALLSGPVAANV LNFSDHHVIPMPLLKGTDDLNPVTSTPAKPSPPPEFSFNTPGKNVNPVILLNTQ  
 TRPYGFLNHGHTPY SSMLNQGLGVPGIGATQGLRTGFTNIPSRYGTTNNRIGQPRP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg4028\\_e05.zip](https://cdn.origene.com/chromatograms/mg4028_e05.zip)

**Restriction Sites:**

Sgfl-Mlul

## Cloning Scheme:

Cloning sites used for ORF Shutting:



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

ACCN: NM\_017964

ORF Size: 1383 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\\_017964.5](#)

RefSeq Size: 2450 bp

RefSeq ORF: 1386 bp

Locus ID: 55676

UniProt ID: [Q6NXT4](#)

Cytogenetics: 2p22.3

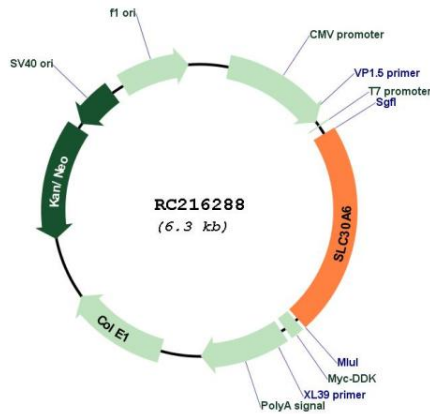
**Domains:** Cation\_efflux

**Protein Families:** Transmembrane

**MW:** 50.9 kDa

**Gene Summary:** This gene encodes a member of a family of proteins that function as zinc transporters. This protein can regulate subcellular levels of zinc in the Golgi and vesicles. Expression of this gene is altered in the Alzheimer's disease brain plaques. [provided by RefSeq, Aug 2016]

**Product images:**



Circular map for RC216288