

Product datasheet for **RC230845**

Znt6 (SLC30A6) (NM_001193513) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Znt6 (SLC30A6) (NM_001193513) 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:

>RC230845 representing NM_001193513
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGACAATTCATCTCTTTTCGAAAACCAACAAGATCCTTTTTTGGCAAGTTGTTACGGGAATTTAGAC
 TTGTAGCAGCTGACCGAAGGTCCTGGAAGATACTGCTCTTTGGTGAATAAACTTGATATGTACTGGCTT
 CCTGCTTATGTGGTGCACTTCTACTAATAGTATAGCTTTAACTGCCTATACTTACCTGACCATTTTTGAT
 CTTTTTAGAGACGGGGTTTACCATTTTGGCTGGGCTGGTCTCAAACCTCTGACCTCAAGTGGTCCACCC
 ACCTCGGCCTACCAAAGTCTGGGATAACAGGCGTGAGCTACCGTGCCTGAGCAATAGTTTAATGACATG
 TTTAATAAGTTACTGGTAACATTGAGGAAACCTAGCCCTGTCTATTCATTTGGGTTTGAAGATTAGAA
 GTCCTGGCTGATTTGCCTCCACAGTCTTGGCACAGTTGGGAGCTCTCTTATATTTAAAGAAAGTGCAG
 AACGCTTTTTGGAACAGCCCGAGATACACACGGGAAGATTATTAGTTGGTACTTTTGGCTCTTTGTTT
 CAACCTGTTACGATGCTTTCTATTCGGAATAAACCTTTTGTCTTATGTCTCAGAAGCTGCTAGTACGAGC
 TGGCTTCAAGAGCATGTTGCAGATCTTAGTCGAAGCTTGTGTGGAATTATTCGGGACTTAGCAGTATCT
 TCCTTCCCGAATGAATCCATTTGTTTTGATTGATCTTGTCTGGAGCATTTGCTCTTTGTATTACATATAT
 GCTCATTGAAATTAATAATTATTTGCCGTAGACACTGCCTCTGCTATAGCTATTGCCTTGATGACATTT
 GGCATATGTATCCCATGAGTGTGTACAGTGGGAAAGTCTTACTCCAGACAACACCACCCCATGTTATTG
 GTCAGTTGGACAACTCATCAGAGAGGTATCTACCTTAGTGGAGTTTGAAGTCCGAAATGAACATTT
 TTGGACCTAGGTTTTGGCTCATTGGCTGGATCAGTGCATGTAAGAATTCGACGAGATGCCAATGAACAA
 ATGGTTCTTGCTCATGTGACCAACAGGCTGTACACTCTAGTGTCTACTCTAACTGTTCAAATTTCAAGG
 ATGACTGGATTAGGCCTGCCTTATTGTCTGGGCTGTTGCAGCCAATGTCCTAACTTTTCAGATCATCA
 CGTAATCCCAATGCCTCTTTTAAAGGCTACTGATGATTTGAACCCAGTTACATCACTCCAGCTAAACCT
 AGTAGTCCACCTCCAGAATTTTCAATTAACACTCCTGGGAAAAATGTGAACCCAGTTATTCTTCTAAACA
 CACAAACAAGGCCTTATGGTTTTGGTCTCAATCATGGACACACACCTTACAGCAGCATGCTTAATCAAGG
 ACTTGGAGTTCAGGAATTGGAGCAACTCAAGGATTGAGGACTGGTTTTACAAATATACCAAGTAGATAT
 GGAATAATAAGATTGGACAACCAAGACCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230845 representing NM_001193513
 Red=Cloning site Green=Tags(s)

MGTIHLFRKPQRSFFGKLLREFRLVAADRRSWKILLFGVINLICTGFLLMWCSSTNSIALTAYTYLTIFD
 LFRDGVSPFWLQWSQTPDLKWSHLGLPKCWDNRRELPCLSNSLMTCLISYWVTLRKPSVYSFGFERLE
 VLAVFASTVLAQLGALFILKESAERFLEQPEIHTGRLLVGTFFALCFNLFMTLSIRNKPFAVYVSEAASTS
 WLQEHVADLSRSLCGIIPGLSSIFLPRMNPFLIDLAFALCITYMLIEINNYFAVDTASAIATMTF
 GTMYPMSVYSGKVLLQTPPHVIGQLDKLIREVSTLDGVLEVRNEHFWTLGFGSLAGSVHVRIRRDANEQ
 MVLAHVNTNRLYTLVSTLTQIFKDDWIRPALLSGPVAANVLNFSDDHVIPMPLKGTDDLNPVTSTPAKP
 SSPPPEFSFNTPGKNVNPVILLNTQTRPYGFLNHGHTPYSSMLNQGLGVPGIGATQGLRTGFTNIPSR
 GTNNRIGQPRP

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001193513

ORF Size: 1503 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

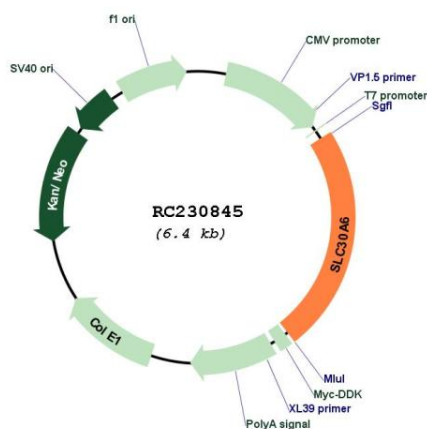
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001193513.3</u>
RefSeq Size:	4965 bp
RefSeq ORF:	1506 bp
Locus ID:	55676
UniProt ID:	<u>Q6NXT4</u>
Cytogenetics:	2p22.3
Protein Families:	Transmembrane
MW:	56.2 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 RC230845