

Product datasheet for RC229883

Zinc transporter 8 (SLC30A8) (NM_001172811) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zinc transporter 8 (SLC30A8) (NM_001172811) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zinc transporter 8
Synonyms:	ZnT-8; ZNT8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229883 representing NM_001172811 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACCACTGCCACAGTGGCTCCAAGCCACAGAAAAGGGGCGAATGAGTACGCCTATGCCAAGTGGAACTCTGTTCTGCTTCAGCAATATGCTTCATTTTCATGATTGCAGAGGTCGTGGTGGGCACATTGCTGGAGTCTTGCTGTGTACAGATGCTGCCACCTCTTAATTGACCTGACCAGTTTCTGCTCAGTCTCTTCCCTGTGGTTGTCATCGAAGCCTCCCTAAGCGGCTGACATTTGGATGGCACCAGCAGAGATCCTTGTGCCCTGCTCTCCATCCTGTGCATCTGGTGGTACTGGCGTGTAGTGTACCTGGCATGTGAGCGCCTGCTGTATCCTGATTACCAGATCCAGGCGACTGTGATGATCATCGTTCCAGCTGCCAGTGGCGGCAACATTGTAATACTGTGGTTTTGCACCAGAGATGCCTTGGCCACAATCACAAGGAAGTACAAGCCAATGCCACGTCAGAGCTGCTTTTGTGCATGCCCTTGAGATCTATTTACAGAGTATCAGTGTGCTAATTAGTGCATATTATCTACTTTAAGCCAGAGTATAAAATAGCCGACCAATCTGCACATTCATCTTTCCATCCTGGTCTTGGCCAGCACCATCACTATCTTAAAGGACTTCTCCATCTTACTCATGGAAGGTGTGCCAAAGAGCCTGATTACAGTGGTGTGAAAGAGCTTATTTAGCAGTCGACGGGTGCTGTCTGTGCACAGCCTGCACATCTGTCTCTAACAATGAATCAAGTAATCTCTCAGTCATGTTGCTACAGCAGCCAGCCGGGACAGCCAAGTGTCGGAGAGAAAATTGCTAAAGCCCTTAGCAAAAGCTTTACGATGCACTCACTACCATTAGATGGAATCTCCAGTTGACCAGGACCCGACTGCCTTTTCTGTGAAGACCCCTGTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC229883 representing NM_001172811
Red=Cloning site Green=Tags(s)

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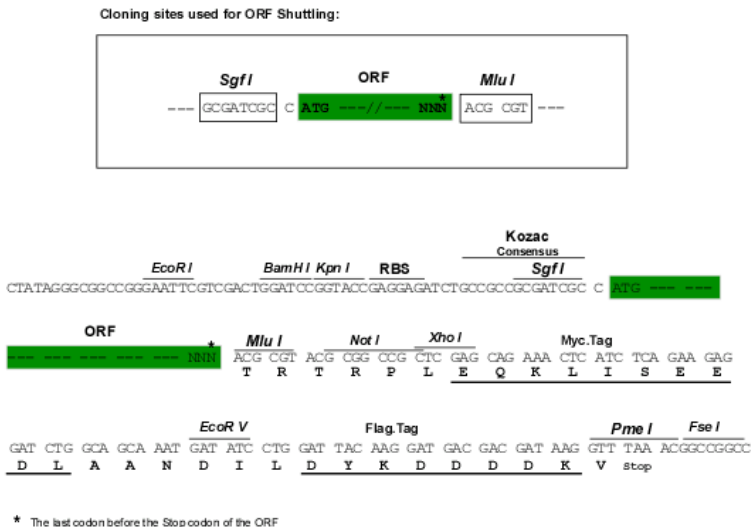
MYHCHSGSKPTEKGANEYAYAKWKLCSASAICFIFMIAEVVGGHIAGSLAVVTDAHLLIDLTSFLLSLF
SLWLSKPPSKRLTFGWHRAEILGALLSILCIWVVTGVLVYLACERLLYPDYQIQATVMIIVSSCAVAAN
IVLTVVLHQRCGLGHNHKEVQANASVRAAFVHALGDLFQSI SVLISALIIYFKPEYKIADP ICTFIF SILV
LASTITILKDFSILLMEGVPKSLNYSVKELILAVDGVLSVHSLHIWSLTMNQVILSAHVATAASRDSQV
VRREIAKALSKSFTMHSLLTIQMESPVDQDPDCLFCEDPCD
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8051_f07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001172811

ORF Size: 960 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_001172811.2](#)

RefSeq ORF: 963 bp

Locus ID: 169026

UniProt ID: [Q8IWU4](#)

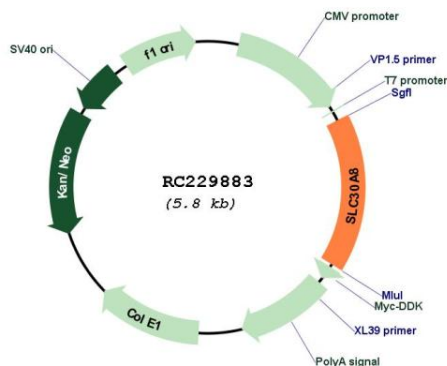
Cytogenetics: 8q24.11

Protein Families: Transmembrane

MW: 35.5 kDa

Gene Summary: The protein encoded by this gene is a zinc efflux transporter involved in the accumulation of zinc in intracellular vesicles. This gene is expressed at a high level only in the pancreas, particularly in islets of Langerhans. The encoded protein colocalizes with insulin in the secretory pathway granules of the insulin-secreting INS-1 cells. Allelic variants of this gene exist that confer susceptibility to diabetes mellitus, noninsulin-dependent (NIDDM). Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar 2010]

Product images:



Circular map for RC229883