

Product datasheet for **SC306942**

Zinc transporter 8 (SLC30A8) (NM_173851) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zinc transporter 8 (SLC30A8) (NM_173851) Human Untagged Clone
Tag:	Tag Free
Symbol:	Zinc transporter 8
Synonyms:	ZnT-8; ZNT8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_173851 edited
 TTTGCTTCCAAAACACTGGGCAGTGGAGTTCAACAACAACGACAACAACAGCCGCAGCTCATC
 CTGGCCGTCATGGAGTTTCTTGAAGAAGTATCTTGTGAATGATAAAGCTGCCAAGATG
 TATGCTTTCACACTAGAAAGTGTGGAACCTCAACAGAAACCGGTGAATAAAGATCAGTGT
 CCCAGAGAGAGACCAGAGGAGCTGGAGTCAGGAGGCATGTACCACTGCCACAGTGCTCC
 AAGCCACAGAAAAGGGGGCGAATGAGTACGCCTATGCCAAGTGGAACTCTGTTCTGCT
 TCAGCAATATGCTTCATTTTCATGATTGCAGAGGTCGTGGGTGGGCACATTGCTGGGAGT
 CTTGCTGTTGTACAGATGCTGCCACCTCTTAATTGACCTGACCAGTTTCTGCTCAGT
 CTCTTCTCCCTGTGGTTGCATCGAAGCCTCCCTCTAAGCGGCTGACATTTGGATGGCAC
 CGAGCAGAGATCCTTGGTGCCCTGCTCTCCATCCTGTGCATCTGGGTGGTACTGGCGTG
 CTAGTGTACCTGGCATGTGAGCGCCTGCTGTATCCTGATTACCAGATCCAGGCGACTGTG
 ATGATCATCGTTTCCAGCTGCGCAGTGGCGGCCAACATTGTAATACTGTGGTTTTGCAC
 CAGAGATGCCCTTGGCCACAATCAACAAGGAAGTACAAGCCAATGCCAGCGTCAGAGCTGCT
 TTTGTGCATGCCCTTGGAGATCTATTTTCAGAGTATCAGTGTGCTAATTAGTGCACATTATT
 ATCTACTTTAAGCCAGAGTATAAAATAGCCGACCCAATCTGCACATTCATCTTTTCCATC
 CTGGTCTTGGCCAGCACCATCACTATCTTAAAGGACTTCTCCATCTTACTCATGGAAGGT
 GTGCCAAAGAGCCTGAATTACAGTGGTGTGAAAGAGCTTATTTTAGCAGTCGACGGGGTG
 CTGTCTGTGCACAGCCTGCACATCTGGTCTCTAACAATGAATCAAGTAATTCTCTCAGCT
 CATGTTGCTACAGCAGCCAGCCGGGACAGCCAAGTGGTTCGGAGAGAAATTGCTAAAGCC
 CTTAGCAAAGCTTTACGATGCACTCACTCACCATTGAGATGGAATCTCCAGTTGACCAG
 GACCCCGACTGCCTTTTCTGTGAAGACCCTGTGACTAGCTCAGTCACACCGTCAGTTTC
 CCAAATTTGACAGGCCACCTTCAAACATGCTGC

Restriction Sites:	Please inquire
ACCN:	NM_173851
Insert Size:	1300 bp



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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: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_173851.2.

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_173851.2](#), [NP_776250.2](#)

RefSeq Size: 5373 bp

RefSeq ORF: 1110 bp

Locus ID: 169026

UniProt ID: [Q8IWU4](#)

Cytogenetics: 8q24.11

Protein Families: Transmembrane

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]

Transcript Variant: This variant (1) encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.