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Product datasheet for SC328522

Zinc transporter 8 (SLC30A8) (NM_001172813) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zinc transporter 8 (SLC30A8) (NM_001172813) Human Untagged Clone
Tag:	Tag Free
Symbol:	Zinc transporter 8
Synonyms:	ZnT-8; ZNT8
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001172813, the custom clone sequence may differ by one or more nucleotides ATGTACCACTGCCACAGTGGCTCCAAGCCCACAGAAAAGGGGGCGAATGAGTACGCCTAT GCCAAGTGGAAACTCTGTTCTGCTTCAGCAATATGCTTCATTTTCATGATTGCAGAGGTC GTGGGTGGGCACATTGCTGGGAGTCTTGCTGTTGTCACAGATGCTGCCCACCTCTTAATT GACCTGACCAGTTTCCTGCTCAGTCTCTTCTCCCTGTGGTTGTCATCGAAGCCTCCCTCT AAGCGGCTGACATTTGGATGGCACCGAGCAGAGATCCTTGGTGCCCTGCTCTCCATCCTG TGCATCTGGGTGGTGACTGGCGTGCTAGTGTACCTGGCATGTGAGCGCCTGCTGTATCCT GATTACCAGATCCAGGCGACTGTGATGATCATCGTTTCCAGCTGCGCAGTGGCGGCCAAC ATTGTACTAACTGTGGTTTTGCACCAGAGATGCCTTGGCCACAATCACAAGGAAGTACAA GCCAATGCCAGCGTCAGAGCTGCTTTTGTGCATGCCCTTGGAGATCTATTTCAGAGTATC AGTGTGCTAATTAGTGCACTTATTATCTACTTTAAGCCAGAGTATAAAATAGCCGACCCA ATCTGCACATTCATCTTTTCCATCCTGGTCTTGGCCAGCACCATCACTATCTTAAAGGAC TTCTCCATCTTACTCATGGAAGGTGTGCCAAAGAGCCTGAATTACAGTGGTGTGAAAGAG CTTATTTTAGCAGTCGACGGGGTGCTGTCTGTGCACAGCCTGCACATCTGGTCTCTAACA ATGAATCAAGTAATTCTCTCAGCTCATGTTGCTACAGCAGCCAGCCGGGACAGCCAAGTG GTTCGGAGAGAAATTGCTAAAGCCCTTAGCAAAAGCTTTACGATGCACTCACTCACCATT CAGATGGAATCTCCAGTTGACCAGGACCCCGACTGCCTTTTCTGTGAAGACCCCTGTGAC TAG
Restriction Sites:	Please inquire
ACCN:	NM_001172813

View online »

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001172813.1, NP_001166284.1
RefSeq Size:	5561 bp
RefSeq ORF:	963 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 (4) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a. Variants 2, 3, 4, and 5 all encode isoform b. 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.