

Product datasheet for **RG229883**

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:	TurboGFP
Symbol:	SLC30A8
Synonyms:	ZnT-8; ZNT8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229883 representing NM_001172811 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACCACTGCCACAGTGGCTCCAAGCCACAGAAAAGGGGCGAATGAGTACGCCTATGCCAAGTGG
AACTCTGTTCTGCTTCAGCAATATGCTTCATTTTCATGATTGCAGAGGTCGTGGGTGGGCACATTGCTGG
GAGTCTTGCTGTTGTACAGATGCTGCCACCTCTTAATTGACCTGACCAGTTTCTGCTCAGTCTCTTC
TCCCTGTGGTTGTCATCGAAGCCTCCCTCTAAGCGGCTGACATTTGGATGGCACCAGCAGAGATCCTTG
GTGCCCTGCTCTCCATCCTGTGCATCTGGGTGGTACTGGCGTGTAGTGTACCTGGCATGTGAGCGCCT
GCTGTATCCTGATTACCAGATCCAGGCGACTGTGATGATCATCGTTTCCAGCTGCCAGTGGCGGCAAC
ATTGTAATAACTGTGGTTTTGCACCAGAGATGCCTTGGCCACAATCACAAGGAAGTACAAGCCAATGCCA
CGGTACAGAGCTGCTTTTGTGCATGCCCTTGGAGATCTATTTACAGAGTATCAGTGTGCTAATTAGTGCAT
TATTATCTACTTTAAGCCAGAGTATAAAATAGCCGACCAATCTGCACATTCATCTTTCCATCCTGGTC
TTGGCCAGCACCATCACTATCTTAAAGGACTTCTCCATCTTACTCATGGAAGGTGTGCCAAAGAGCCTGA
ATTACAGTGGTGTGAAAGAGCTTATTTAGCAGTCGACGGGTGCTGTCTGTGCACAGCCTGCACATCTG
GTCTCTAACAATGAATCAAGTAATCTCTCAGCTCATGTTGCTACAGCAGCCAGCCGGGACAGCCAAGTG
GTTCCGAGAGAAAATTGCTAAAGCCCTTAGCAAAAGCTTTACGATGCACTCACTACCATTAGATGGAAT
CTCCAGTTGACCAGGACCCGACTGCCTTTTCTGTGAAGACCCCTGTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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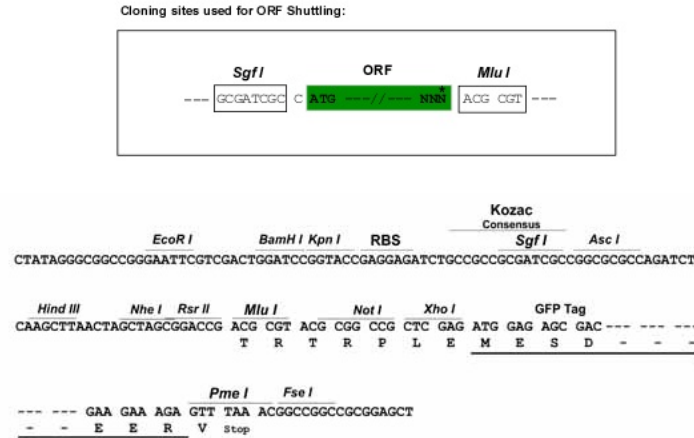
Protein Sequence: >RG229883 representing NM_001172811
 Red=Cloning site Green=Tags(s)

MYHCHSGSKPTEKGANEYAYAKWKLCSASAICFIFMIAEVVGGHIAGSLAVVTDAHLLIDLTSFLLSLF
 SLWLSKPPSKRLTFGWHRAEILGALLSILCIWVVTGVLVYLACERLLYPDYQIQATVMIIVSSCAVAAN
 IVLTVVLHQRCGLGHNHKEVQANASVRAAFVHALGDLFQSI SVLISALIIYFKPEYKIADP ICTFIF SILV
 LASTITILKDFSILLMEGVPKSLNYSVKELILAVDGVLSVHSLHIWLSLTMNQVILSAHVATAASRDSQV
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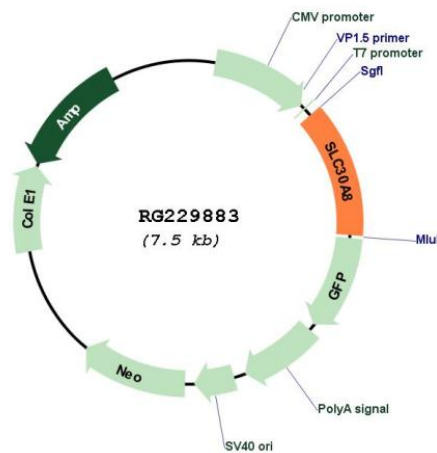
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<ol style="list-style-type: none">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 Size:	5316 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]