

## Product datasheet for **RG229884**

### Zinc transporter 8 (SLC30A8) (NM\_001172813) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zinc transporter 8 (SLC30A8) (NM_001172813) 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:	>RG229884 representing NM_001172813 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTACCACTGCCACAGTGGCTCCAAGCCACAGAAAAGGGGGCGAATGAGTACGCCTATGCCAAGTGGAACTCTGTTCTGCTTCAGCAATATGCTTCATTTTCATGATTGCAGAGGTCGTGGGTGGGCACATTGCTGGAGTCTTGCTGTGTGCACAGATGCTGCCACCTCTTAATTGACCTGACCAGTTTCTGCTCAGTCTTCTCCCTGTGGTTGTCATCGAAGCCTCCCTCTAAGCGGCTGACATTTGGATGGCACCAGCAGAGATCCTTGTGCCCTGCTCTCCATCCTGTGCATCTGGGTGGTACTGGCGTGTAGTGTACCTGGCATGTGAGCGCCTGCTGTATCCTGATTACCAGATCCAGGCGACTGTGATGATCATCGTTTCCAGCTGCCAGTGGCGGCAACATTGTAATACTGTGGTTTTGCACCAGAGATGCCTTGGCCACAATCACAAGGAAGTACAAGCCAATGCCACGTCAGAGCTGCTTTTGTGCATGCCCTTGGAGATCTATTTTCAGAGTATCAGTGTGCTAATTAGTGCATATTATCTACTTTAAGCCAGAGTATAAAATAGCCGACCAATCTGCACATTCATCTTTCCATCCTGGTCTTGGCCAGCACCATCACTATCTTAAAGGACTTCTCCATCTTACTCATGGAAGGTGTGCCAAAGAGCCTGATTACAGTGGTGTGAAAGAGCTTATTTTAGCAGTCGACGGGTGCTGTCTGTGCACAGCCTGCACATCTGTCTCTAACAATGAATCAAGTAATCTCTCAGCTCATGTTGCTACAGCAGCCAGCCGGGACAGCCAAGTGTTCCGGAGAGAAAATTGCTAAAGCCCTTAGCAAAAGCTTTACGATGCACTCACTACCATTAGATGGAATCTCCAGTTGACCAGGACCCCGACTGCCTTTTCTGTGAAGACCCCTGTGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229884 representing NM\_001172813  
 Red=Cloning site Green=Tags(s)

MYHCHSGSKPTEKGANEYAYAKWKLCSASAICFIFMIAEVVGGHIAGSLAVVTDAHLLIDLTSFLLSLF  
 SLWSSKPPSKRLTFGWHRAEILGALLSILCIWVVTGVLVYLACERLLYPDYQIQATVMIIVSSCAVAAN  
 IVLTVVLHQRC LGHNHKEVQANASVRAAFVHALGDLFQSI SVLISALIIYFKPEYKIADPICTFIF SILV  
 LASTITILKDFSILLMEGVPKSLNYSVKELILAVDGVLSVHSLHIWLSLTMNQVILSAHVATAASRDSQV  
 VRREIAKALSKSFTMHS LTIQMESPVDQDPDCLFCEDPCD

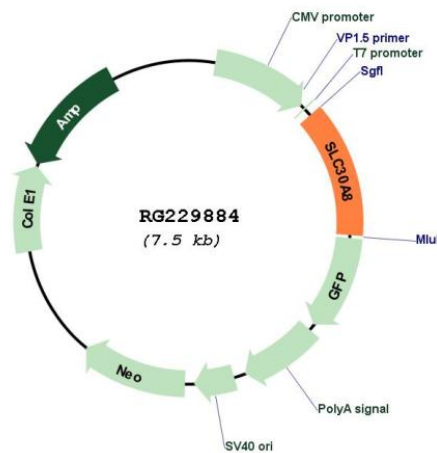
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001172813

ORF Size: 960 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001172813.2</a>
<b>RefSeq Size:</b>	5561 bp
<b>RefSeq ORF:</b>	963 bp
<b>Locus ID:</b>	169026
<b>UniProt ID:</b>	<a href="#">Q8IWU4</a>
<b>Cytogenetics:</b>	8q24.11
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]