

Product datasheet for **RG220964**

Zinc transporter 8 (SLC30A8) (NM_173851) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zinc transporter 8 (SLC30A8) (NM_173851) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zinc transporter 8
Synonyms:	ZnT-8; ZNT8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220964 representing NM_173851 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTTTCTTGAAAGAACGTATCTTGTGAATGATAAAGCTGCCAAGATGTATGCTTTCACACTAGAAA
GTGTGGAACCTCAACAGAAACCGGTGAATAAAGATCAGTGTCCCAGAGAGAGACCAGAGGAGCTGGAGTC
AGGAGGCATGTACCACTGCCACAGTGGCTCCAAGCCACAGAAAAGGGGGCGAATGAGTACGCCTATGCC
AAGTGGAACTCTGTTCTGCTTCAGCAATATGCTTCATTTTCATGATTGCAGAGGTCGTGGTGGGCACA
TTGCTGGGAGTCTTGCTGTTGTACAGATGCTGCCACCTCTTAATTGACCTGACCAGTTTCTGCTCAG
TCTCTTCTCCCTGTGGTGTGCATCGAAGCCTCCCTCTAAGCGGCTGACATTTGGATGGCACCAGCAGAG
ATCCTTGGTGCCCTGCTCTCCATCCTGTGCATCTGGTGGTGACTGGCGTGCTAGTGACCTGGCATGTG
AGCGCCTGCTGTATCCTGATTACCAGATCCAGGCGACTGTGATGATCATCGTTTCCAGCTGCGCAGTGGC
GGCCAACATTGTACTAAGTGTGGTTTTGCACCAGAGATGCCTTGGCCACAATCACAAGGAAGTACAAGCC
AATGCCAGCGTCAGAGCTGCTTTTGTGCATGCCCTTGGAGATCTATTTACAGATATCAGTGTGCTAATTA
GTGCACCTATTATCTACTTTAAGCCAGAGTATAAAATAGCCGACCAATCTGCACATTCATCTTTCCAT
CCTGGTCTTGGCCAGCACCATCACTATCTTAAAGGACTTCTCCATCTTACTCATGGAAGGTGTGCCAAAG
AGCCTGAATTACAGTGGTGTGAAAGAGCTTATTTAGCAGTCGACGGGGTGTCTGTGCACAGCCTGC
ACATCTGGTCTCTAACAATGAATCAAGTAATTCTCTCAGCTCATGTTGCTACAGCAGCCAGCCGGGACAG
CCAAGTGGTTCGAGAGAAATTGCTAAAGCCCTTAGCAAAAGCTTTACGATGCACTCACTCACCATTGAG
ATGGAATCTCCAGTTGACCAGGACCCCGACTGCCTTTTCTGTGAAGACCCTGTGAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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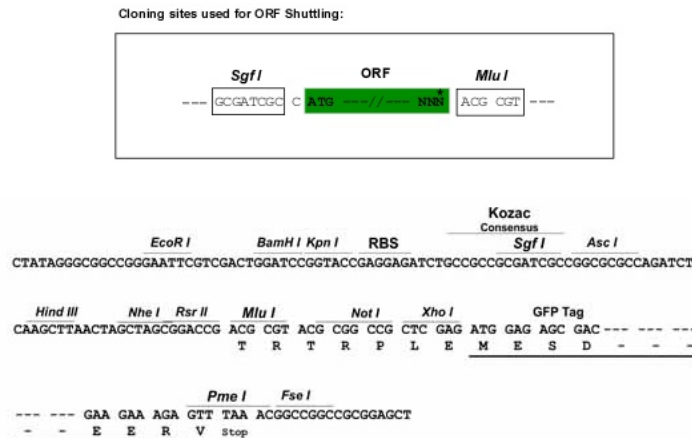
Protein Sequence: >RG220964 representing NM_173851
 Red=Cloning site Green=Tags(s)

MEFLERTYL VNDKAAKMYAFTLESVELQQKPVNKDQCPRERPEELES GGMVYHCHSGSKPTEKGANEYAYA
 KWKLCASAI CFIFMIAEVVGGHIAGSLAVVTDAHLLIDLTSFLLSLFSLWLSKPPSKRLTFGWHRAE
 ILGALLSILCIWVVTGVLVYLACERLLYDPYQIQATVMIIVSSCAVAANI VLTVVLHQRC LGHNHKEVQA
 NASVRAAFVHALGDLFQSI SVLISALIIYFKPEYKIADP ICTFFIFSILV LASTITILKDFSILLMEGVPK
 SLNYSGVKELILAVDGVLSVHSLHIWLSLTMNQVILSAHVATAASRDSQVVRREIAKALSKSFTMHS LTIQ
 MESPVDQDPDCLFCEDPCD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173851

ORF Size: 1107 bp

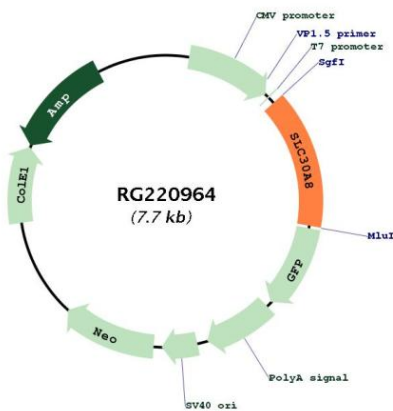
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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: 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_173851.3](#)
- 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]

Product images:



Circular map for RG220964