

Product datasheet for **RG214171**

SLC30A5 (NM_024055) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: SLC30A5
Synonyms: ZnT-5; ZNT5; ZNTL1; ZTL1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG214171 representing NM_024055
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGAAATACGGCGGGGACGTGCTGGCCGGCCCCGGCGGCGGCGGCCTTGGGCCGGTGGACG
TACCCAGCGCTCGATTACAAAATATATTGTGTTACTATGTTTCACTAAATTTTGAAGGCTGTGGGACT
TTTCGAATCATATGATCTCCTAAAAGCTGTTACATTGTTTCAGTTCATTTTATATTTAAACTTGGGACT
GCATTTTTTATGGTTTTGTTTCAAAAGCCATTTCTTCTGGGAAACTATTACCAACACCAGATAATTG
GATCACTAAAAATTCCTGGTAGAAAAGAATTTAAAGACAAAAAGTTAAATGATCCTAGGAACTAGTGGG
AAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214171 representing NM_024055
Red=Cloning site Green=Tags(s)

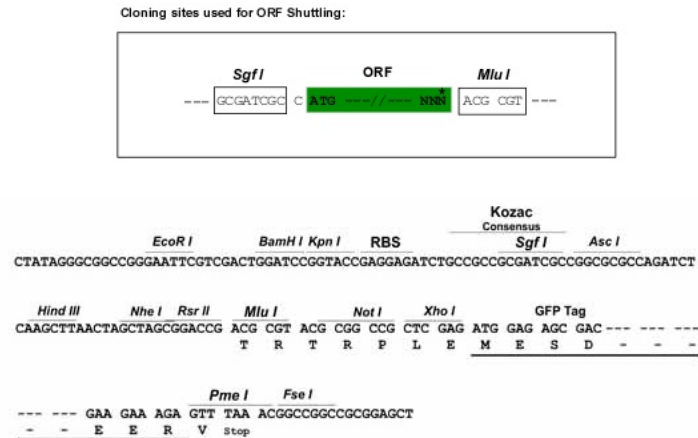
MEEKYGGDVLAGPGGGGLGPVDVPSARLTKYIVLLCFTKFLKAVGLFESYDLLKAVHIVQFIFILKLG
AFFMVLFPQPFSSGKTIKQIIGSLKIPGRKEFKDKKLNDRKLVGN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_024055

ORF Size: 354 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

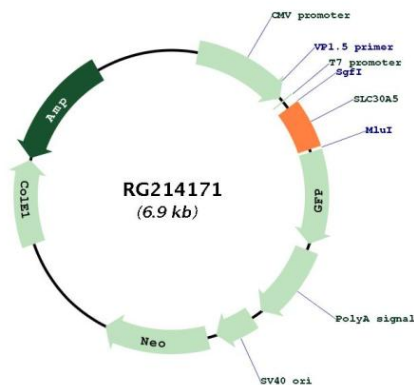
RefSeq: [NM_024055.5](#)
 RefSeq Size: 1379 bp
 RefSeq ORF: 357 bp
 Locus ID: 64924
 UniProt ID: [Q8TAD4](#)

Cytogenetics: 5q13.1-q13.2

Protein Families: Transmembrane

Gene Summary: This gene encodes a member of the SLC30A/ZnT family of zinc transporter proteins. ZnT proteins mediate both cellular zinc efflux and zinc sequestration into membrane-bound organelles. The encoded protein plays a role in the early secretory pathway as a heterodimer with zinc transporter 6, and may also regulate zinc sequestration into secretory granules of pancreatic beta cells. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 19. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RG214171