

Product datasheet for **RG209198**

SLC30A7 (NM_133496) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC30A7 (NM_133496) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC30A7
Synonyms:	ZnT-7; ZNT7; ZnTL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209198 representing NM_133496 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGCCCTGTCCATCAAAGACGATGAATACAAACCACCAAGTTCAATTTGTTGCGCAAGATCTCGG
GCTGGTTTAGGTCTATACTGTCCGACAAGACTCCCGGAACCTGTTTTCTTCTGTGCCTGAACCTCTC
TTTCGCTTTGTGGAAGTACTCTACGGCATCTGGAGCACTGCTTAGGCTTGATTTCCGACTCTTTTCAC
ATGTTTTTCGATAGCACTGCCATTTGGCTGGACTGCCAGCTTCTGTTATTTCAAATGGAGAGATAATG
ATGCTTTCTCCTATGGGTATGTTAGAGCGGAAGTTCTGGCTGGCTTTGTCAATGGCCTATTTTTGATCTT
CACTGCTTTTTTATTTTCTCAGAAGGAGTTGAGAGAGCATTAGCCCTCCAGATGTCCACCATGAGAGA
CTGCTTCTGTTTCCATTCTTGGGTTTGTGGTAAACCTAATAGGAATATTTGTTTTCAAACATGGAGGTC
ATGGACATTCTCATGGCTCTGGCCACGGACACAGTCATTCCCTCTTAATGGTGTCTAGATCAGGCACA
TGGCCATGTGCATCATTGCCATAGCCATGAAGTAAAACATGGTGTGCACATAGCCATGATCATGCTCAT
GGACATGGACACTTTTATTCTCATGATGGCCCGTCCTTAAAAGAAAACAACAGGACCCAGCAGACAGATTT
TACAAGGTGATTTTTACATATCCTAGCAGATACACTTGAAGTATTGGTGAATTGCTTCTGCCATCAT
GATGCAAAATTTTGGTCTGATGATAGCAGATCCTATCTGTTCAATTCTTATAGCCATTCTATAGTTGTA
AGTGTATTCTCTTTAAGAGAATCTGTTGGAATATTAATGCAGAGAACTCCTCCCTATTAGAAAATA
GTCTGCCTCAGTGCTATCAGAGGGTACAGCAGTTGCAAGGAGTTTACAGTTTACAGGAACAGCACTTCTG
GACTTTATGTTCTGACGTTTATGTTGGGACCTTAAAATTAATAGTAGCACCTGATGCTGATGCTAGGTGG
ATTTTAAGCCAAACACATAATATTTTTACTCAGGCTGGAGTGAGACAGCTCTACGTACAGATTGATTTTG
CAGCCATG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209198 representing NM_133496
Red=Cloning site Green=Tags(s)

MLPLSIKDDEYKPPKFNLFKISGWFRSILSDKTSRNLFFFLCLNLSFAFVELLYGIWSNCLGLISDSFH
MFFDSTAILAGLAASVISKWRDNDAFSYGYVRAEVLGAFVNLFLIFTAFFIFSEGERALAPPDVHHER
LLLVSILGFVNLIGIFVFKHGGHSHGSHGSHSLFNGALDQAHGHVDHCHSHEVKHGAASHDHAH
GHGHFHSHDGPSTKETTGPSRQILQGVFLHILADTLGSIQVIASAIMMQNFGLMIADPICSLIAILIVV
SVIPLLRRESVILMQRTPPLENSLPQCYQRVQQLQGVYSLQEQHFWTLCSDVYVGTCLKLIVAPDADARW
ILSQTHNIFTQAGVRQLYVQIDFAAM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_133496

ORF Size: 1128 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.

RefSeq: [NM_133496.3](#), [NP_598003.2](#)

RefSeq Size: 5862 bp

RefSeq ORF: 1131 bp

Locus ID: 148867

UniProt ID: [Q8NEW0](#)

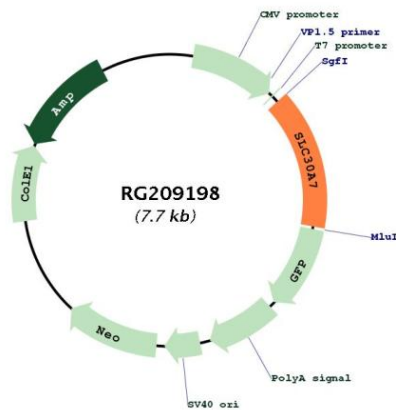
Cytogenetics: 1p21.2

Domains: Cation_efflux

Protein Families: Transmembrane

Gene Summary: Zinc functions as a cofactor for numerous enzymes, nuclear factors, and hormones and as an intra- and intercellular signal ion. Members of the zinc transporter (ZNT)/SLC30 subfamily of the cation diffusion facilitator family, such as SLC30A7, permit cellular efflux of zinc (Seve et al., 2004 [PubMed 15154973]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG209198