

## Product datasheet for **RC209198**

### SLC30A7 (NM\_133496) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC30A7 (NM_133496) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC30A7
Synonyms:	ZnT-7; ZNT7; ZnTL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209198 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGTTGCCCTGTCCATCAAAGACGATGAATACAAACCACCAAGTTCAATTTGTTGCGCAAGATCTCGG  
GCTGGTTTAGGTCTATACTGTCCGACAAGACTCCCGGAACCTGTTTTCTTCTGTGCCTGAACCTCTC  
TTTCGCTTTGTGGAAGTACTCTACGGCATCTGGAGCACTGCTTAGGCTTGATTTCCGACTCTTTTAC  
ATGTTTTTCGATAGCACTGCCATTTGGCTGGACTGCCAGCTTCTGTTATTTCAAATGGAGAGATAATG  
ATGCTTTCTCCTATGGGTATGTTAGAGCGGAAGTTCTGGCTGGCTTTGTCAATGGCTATTTTTGATCCT  
CACTGCTTTTTTATTTTCTCAGAAGGAGTTGAGAGAGCATTAGCCCTCCAGATGTCCACCATGAGAGA  
CTGCTTCTGTTTCCATTCTTGGTTTTGTGGTAAACCTAATAGGAATATTTGTTTTCAAACATGGAGGTC  
ATGGACATTCTCATGGCTCTGGCCACGGACACAGTCATTCCCTCTTAATGGTGTCTAGATCAGGCACA  
TGGCCATGTGCATCATTGCCATAGCCATGAAGTAAACATGGTGTGCACATAGCCATGATCATGCTCAT  
GGACATGGACACTTTTATTCTCATGATGGCCCGTCTTAAAAGAAAACAACAGGACCCAGCAGACAGATTT  
TACAAGGTGATTTTTACATATCCTAGCAGATACACTTGAAGTATTGGTGAATTTGCTTCTGCCATCAT  
GATGCAAAATTTTGGTCTGATGATAGCAGATCCTATCTGTTCAATTCTTATAGCCATTCTATAGTTGTA  
AGTGTATTCTCTTTAAGAGAACTGTTGGAATATTAATGCAGAGAACTCTCCCTATTAGAAAATA  
GTCTGCCTCAGTGCTATCAGAGGGTACAGCAGTTGCAAGGAGTTTACAGTTTACAGGAACAGCACTTCTG  
GACTTTATGTTCTGACGTTTATGTTGGACCTTAAAATTAATAGTAGCACCTGATGCTGATGCTAGGTGG  
ATTTTAAGCCAAACACATAATATTTTTACTCAGGCTGGAGTGAGACAGCTCTACGTACAGATTGATTTTG  
CAGCCATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC209198 protein sequence  
Red=Cloning site Green=Tags(s)

MLPLSIKDDEYKPPKFNLFGKISGWFRSILSDKTSRNLFFFLCLNLSFAFVELLYGIWSNCLGLISDSFH  
MFFDSTAILAGLAASVISKWRDNDAFSYGYVRAEVLAFVNLFLIFTAFFIFSEGERALAPDVHHER  
LLLVSILGFVVNLIGIFVFKHGGHSHGSHGSHSLFNGALDQAHGHVDHCHSHEVKHGAASHDHAH  
GHGHFHSHDGPSLKETTGPSRQILQGVFLHILADTLGSIQVIASAIMMQNFGLMIADPICSLIAILIVV  
SVIPLLRESVIGILMQRTPPILLENSLPQCYQRVQQLQGVYSLQEQHFWTLCSDVYVGTCLKLIVAPDADARW  
ILSQTHNIFTQAGVRQLYVQIDFAAM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6346\\_f06.zip](https://cdn.origene.com/chromatograms/mk6346_f06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**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:** 8232 bp

**RefSeq ORF:** 1131 bp

**Locus ID:** 148867

**UniProt ID:** [Q8NEW0](#)

**Cytogenetics:** 1p21.2

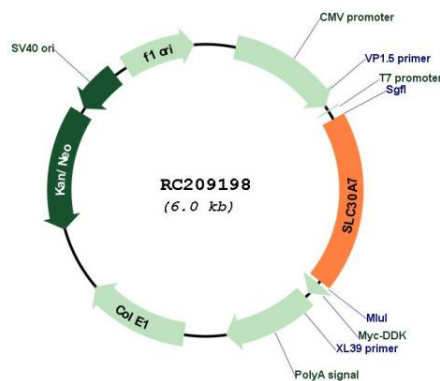
**Domains:** Cation\_efflux

**Protein Families:** Transmembrane

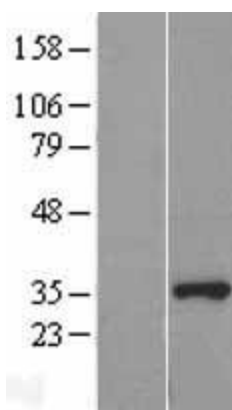
**MW:** 41.6 kDa

**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]

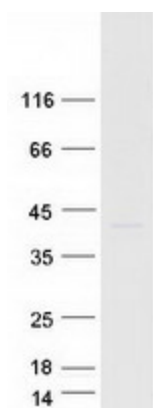
## Product images:



Circular map for RC209198



Western blot validation of overexpression lysate (Cat# [LY428544]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC227524] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SLC30A7 protein (Cat# [TP309198]). The protein was produced from HEK293T cells transfected with SLC30A7 cDNA clone (Cat# RC209198) using MegaTran 2.0 (Cat# [TT210002]).