

Product datasheet for RC227524

SLC30A7 (NM_001144884) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC30A7 (NM_001144884) 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:	>RC227524 representing NM_001144884 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGTTGCCCTGTCCATCAAAGACGATGAATACAAACCACCAAGTTCAATTTGTTGCGCAAGATCTCGG
GCTGGTTTAGGTCTACTGTCCGACAAGACTCCCGGAACCTGTTTTCTTCTGTGCCTGAACCTCTC
TTTCGCTTTGTGGAAGTACTCTACGGCATCTGGAGCACTGCTTAGGCTTGATTTCCGACTCTTTTAC
ATGTTTTTCGATAGCACTGCCATTTGGCTGGACTGCCAGCTTCTGTTATTTCAAATGGAGAGATAATG
ATGCTTTCTCCTATGGGTATGTTAGAGCGGAAGTTCTGGCTGGCTTTGTCAATGGCTATTTTTGATCCT
CACTGCTTTTTTATTTTCTCAGAAGGAGTTGAGAGAGCATTAGCCCTCCAGATGTCCACCATGAGAGA
CTGCTTCTGTTTCCATTCTTGGTTTTGTGTAACCTAATAGGAATATTTGTTTTCAAACATGGAGGTC
ATGGACATTCTCATGGCTCTGGCCACGGACACAGTCATTCCCTCTTAATGGTGTCTAGATCAGGCACA
TGGCCATGTGCATCATTGCCATAGCCATGAAGTAAACATGGTGTGCACATAGCCATGATCATGCTCAT
GGACATGGACACTTTTCTATCATGATGGCCGTCCTTAAAGAAACAACAGGACCCAGCAGACAGATTT
TACAAGGTGATTTTTACATATCCTAGCAGATACACTTGAAGTATTGGTGAATTTGCTTCTGCCATCAT
GATGCAAAATTTTGGTCTGATGATAGCAGATCCTATCTGTTCAATTCTTATAGCCATTCTATAGTTGTA
AGTGTATTCTCTTTAAGAGAACTGTTGGAATTAATGCAGAGAACTCCTCCCTATTAGAAAATA
GTCTGCCTCAGTGCTATCAGAGGGTACAGCAGTTGCAAGGAGTTTACAGTTTACAGGAACAGCACTTCTG
GACTTTATGTTCTGACGTTTATGTTGGGACCTTAAAATTAATAGTAGCACCTGATGCTGATGCTAGGTGG
ATTTTAAGCCAAACACATAATTTTTACTCAGGCTGGAGTGAGACAGCTCTACGTACAGATTGACTTTG
CAGCCATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC227524 representing NM_001144884
Red=Cloning site Green=Tags(s)

MLPLSIKDDEYKPPKFNLF GKISGWFRSILSDKTSRNLFFFLCLNLSFAFVELLYGIWSNCLGLISDSFH
MFFDSTAILAGLAASVISKWRDNDAFSYGYVRAEVLGAFVNLFLIFTAFFIFSEGERALAPDVHHER
LLLVSILGFVVNLIGIFVFKHGGHSHGSHGSHSLFNGALDQAHGHVDHCHSHEVKHGAASHDHAH
GHGHFHSHDGPSLKETTGPSRQILQGVFLHILADTLGSIQVIASAIMMQNFGLMIADPICSLIAILIVV
SVIPLLRESVGILMQRTPPILLENSLPQCYQRVQQLQGVYSLQEQHFWTLCSDVYVGTLLKLIIVAPDADARW
ILSQTHNIFTQAGVRQLYVQIDFAAM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: 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_001144884

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_001144884.2](#)

RefSeq ORF: 1131 bp

Locus ID: 148867

UniProt ID: [Q8NEW0](#)

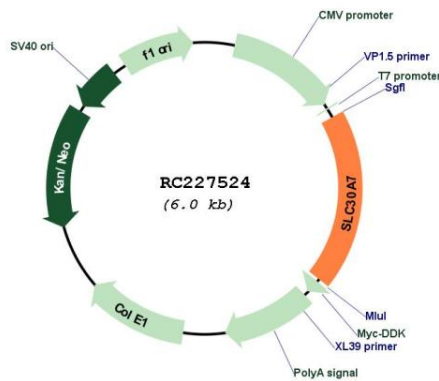
Cytogenetics: 1p21.2

Protein Families: Transmembrane

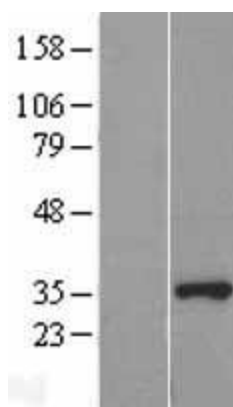
MW: 41.4 kDa

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]

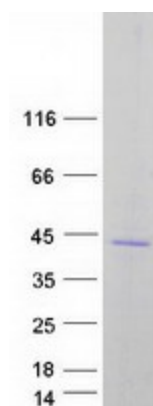
Product images:



Circular map for RC227524



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# [TP327524]). The protein was produced from HEK293T cells transfected with SLC30A7 cDNA clone (Cat# RC227524) using MegaTran 2.0 (Cat# [TT210002]).