

Product datasheet for **RR200431**

Slc30a2 (NM_001083122) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc30a2 (NM_001083122) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc30a2
Synonyms:	ZnT-2; Znt2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR200431 representing NM_001083122 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGACCATGGACAAGCAGAACCTGCTGGAGAGCACGCGGGAGCCCGGTCTTTCTTTGGAGCTCTGT
 GGAAGAGTGAAGCTAGCCGAATCCCGCCTGTGAACCTGCCCTCTGTTGAAGTGGCTGTCCAGAGCAACCA
 TTACTGTCATGCGCAGAAGGATTCTGGAAGTCACCCCAACTCCGAGAAGCAGAGGGCCCGACGAAACTC
 TATGTGGCCTCTGCCATCTGCCTGGTGTTCATGATTGGAGAGATTATTGGTGGGTACCTGGCACAGAGCT
 TAGCCATCATGACCGACGCGGCCACCTGCTCACTGATTTGCCAGCATGCTCATTAGTCTTTCTCCCT
 CTGGGTGTCTCCCGCCAGCCACCAAGACCATGAACTTCGGCTGGCAGCGAGCTGAGATCCTTGGAGCC
 TTGCTGTCTGTACTGTCTATCTGGGTGGTGACCGGGTGCTCGTGTACCTGGCTGTACAGCGGTTGATT
 CTGGAGATTATGAGATCAAAGGGGACACCATGTTGATCACTTCGGGCTGCGCTGTGGCTGTGAACATCAT
 AATGGGGCTGGCCCTCCATCAGTCTGGACATGGACACAGCCATGGGCACAGCCATGAGGACAGCAGCCAG
 CAGCAGCAGAACCCAGTGTCCGAGCTGCCTTCATTATGTGTTGGGGACCTTCTACAGAGTGTGGGCG
 TCCTGGTGGCAGCCTATATTATACTTCAAGCCGAGTACAAGTACGTGGACCCCATCTGCACCTTCCT
 CTTCTCCATCCTGGTCTTGGGGACAACGTTAACCATCCTGAGAGATGTGATCTTGGTTCTCATGGAAGGG
 ACTCCCAAAGGTGTGGACTTCACAACTGTGAAAAATCTTCTGCTGTCCGTGGATGGTGTGGAAGCCTTAC
 ACAGCCTGCATATCTGGGCGCTGACAGTGGCCAGCCCGTGTCTGTCTCCACATAGCCATTGCCAGAA
 TGGTGATGCCAGGCTGTGCTGAAGGTGGCTAGGACCGCCTCCAGGGGAAGTTCAATTTCCACACCATG
 ACCATCCAAATTGAGAGTACTCTGAGGACATGAAGAGCTGCCAGGAGTGCCAGGGTCCCTCGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RR200431 representing NM_001083122
 Red=Cloning site Green=Tags(s)

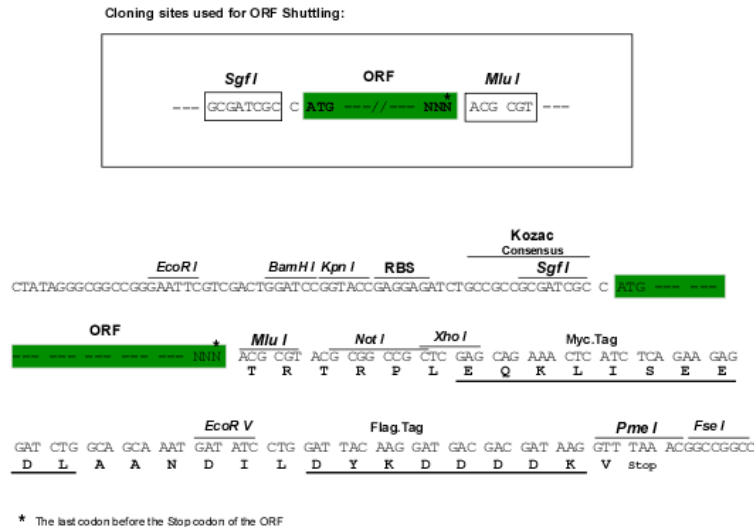
MQTMDKQNLLESTRGARSFFGALWKSEASRIPPVNLPVELAVQSNHYCHAQKDSGSHPNSEKQRARRKL
 YVASAICLVFMIGEIIIGGYLAQSLAIMTDAHLLTDFASMLISLSLWSSRPATKTMNFGWQRAEILGA
 LLSVL SIWVVTGVLVYLAVQRLISGDYEIKGDTMLITSGCAVAVNIIMGLALHQSGHSHGHSHEDSSQ
 QQNPSPVRAAFIHVVGDLQLQSVGLVAAYIIYFKPEYKYVDPICTFLFSILVLGTTLTILRDVILVMEG
 TPKGVDFTTVKNLLLSVDGVEALHSLHIWALTVAQPVLSVHIAIAQNVDQAQVLKVARDRLQGKFNHFTM
 TIQIESYSEDMKSCQECQGPSE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001083122

ORF Size: 1116 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_001083122.1, NP_001076591.1

RefSeq Size: 3100 bp

RefSeq ORF: 1119 bp

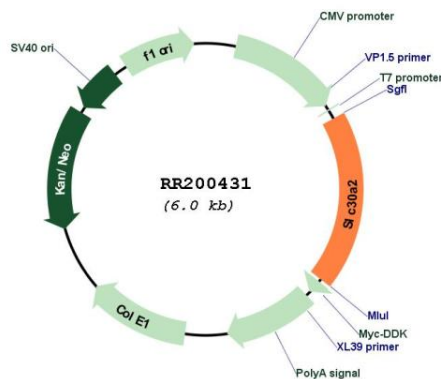
Locus ID: 25362

Cytogenetics: 5q36

MW: 40.8 kDa

Gene Summary: The protein encoded by this gene is a zinc transporter. It is localized in the vesicles and suggested to protect the cells from zinc toxicity by facilitating vesicular sequestration. Alternatively spliced transcript variants have been found for this gene, one of which initiates translation from a non-AUG (CUG) start codon. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RR200431