

Product datasheet for **RR200430**

Slc30a2 (NM_012890) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc30a2 (NM_012890) 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:	>RR200430 representing NM_012890 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

CTGGCCTCCAGGTCTTTCTTTGGAGCTCTGTGGAAGAGTGAAGCTAGCCGAATCCCGCTGTGAACCTGC
 CCTCTGTTGAAGTGGCTGTCCAGAGCAACCATTACTGTCATGCGCAGAAGGATTCTGGAAGTCAACCCAA
 CTCCGAGAAGCAGAGGGCCCGACGCAAACTCTATGTGGCCTCTGCCATCTGCCTGGTGTTCATGATTGGA
 GAGATTATTGGTGGGTACCTGGCACAGAGCTTAGCCATCATGACCGACGCGGCCACCTGCTCACTGATT
 TCGCCAGCATGCTCATTAGTCTCTTCTCCCTCTGGGTGTCTCCCGGCCAGCCACCAAGACCATGAACCTT
 CGGCTGGCAGCGAGCTGAGATCCTTGGAGCCTTGTCTGTCTACTGTCTATCTGGGTGGTACCGGGGTG
 CTCGTGTACCTGGCTGTACAGCGTTGATTCTTGAGATTATGAGATCAAAGGGGACACCATGTTGATCA
 CTTCCGGCTGCGCTGTGGCTGTGAACATCATAATGGGGCTGGCCCTCCATCAGTCTGGACATGGACACAG
 CCATGGGCACAGCCATGAGGACAGCAGCCAGCAGCAGAGAACCCAGTGTCCGAGCTGCCTTCATTCTAT
 GTGGTTGGGGACCTTCTACAGAGTGTGGCGCTCCTGGTGGCAGCCTATATTATATACTTCAAGCCCGAGT
 ACAAGTACGTGGACCCCATCTGCACCTTCCTCTTCTCCATCCTGGTCTTGGGGACAACGTTAACCATCCT
 GAGAGATGTGATCTTGGTTCTCATGGAAGGACTCCCAAAGGTGTGGACTTCACAACTGTGAAAAATCTT
 CTGCTGTCCGTGGATGGTGTGGAAGCCTTACACAGCCTGCATATCTGGGCGCTGACAGTGGCCAGCCCG
 TGCTGTCTGTCCACATAGCCATTGCCAGAAATGTTGATGCCAGGCTGTGCTGAAGGTGGCTAGGGACCG
 CCTCCAGGGGAAGTTCAATTTCCACACCATGACCATCCAAATTGAGAGCTACTCTGAGGACATGAAGAGC
 TGCCAGGAGTGCCAGGTCCCTCGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RR200430 representing NM_012890
Red=Cloning site Green=Tags(s)

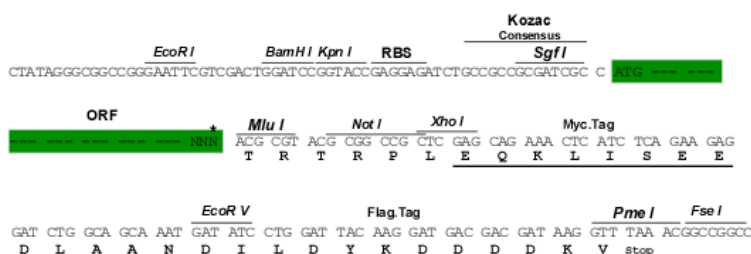
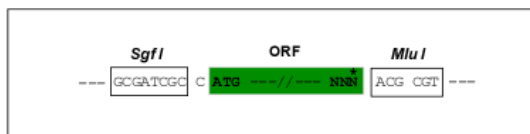
LASRSFFGALWKSEASRIPPVNLSVELAVQSNHYCHAQKDSGSHPNSEKQRRRKL YVASAICLVFMIG
 EIIGGYLAQSLAIMTDAHLLTDFASMLISLFSLVWSSRPATKTMNFGWQRAEILGALLSVLSIWVVTGV
 LVYLAQRLISGDYEIKGDTMLITSGCAVAVNIIMGLALHQSGHGHSHGHSHEDSSQQQNPVSRAAFIH
 VVGDLLQSVGVLVAAYIIYFKPEYKYVDPICTFLFSILVLGTTLTILRDVILVLMEGTPKGVDFTTVKNL
 LLSVDGVEALHSLHIWALTVAQPVLSVHIAIAQNVDAQAVLKVARDRLQGKFNFHTMTIQIESYSEDMKS
 CCECGPEAL

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 012890

ORF Size: 1077 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_012890.2, NP_037022.1

RefSeq Size: 3039 bp

RefSeq ORF: 1080 bp

Locus ID: 25362

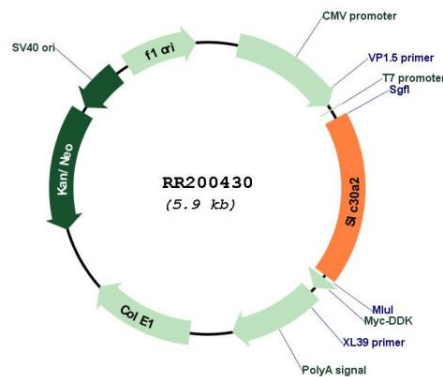
UniProt ID: Q62941

Cytogenetics: 5q36

MW: 39.3 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 RR200430