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Product datasheet for MR205895

Slc30a7 (NM_023214) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc30a7 (NM_023214) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc30a7
Synonyms:	1810059J10Rik; 2610034N15Rik; 4833428C12Rik; AI467242; ZnT-7; ZnT7; Zntl2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR205895 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGCCCCTGTCCATCAAGGATGATGAATACAAACCACCCAAGTTCAATCTGTTCGGCAAGATCTCAG
GCTGGTTTAGGTCCATCCTGTCGGACAAGACATCCCGGAACCTGTTTTTCTTCCTGTGCCTGAACCTCTC
TTTCGCTTTTGTGGAACTACTCTACGGCATCTGGAGCAACTGCCTAGGCTTGATCTCCGACTCCTTCCAC
ATGTTTTTTGATAGTACCGCCATATTGGCCGGATTGGCAGCTTCTGTTATTTCAAAGTGGAGAGATAATG
ACGCTTTCTCTTATGGGTATGTTAGAGCAGAAGTCCTGGCTGGCTTTGTCAATGGGCTGTTTTTGATCTT
CACTGCTTTCTTTATTTTCTCAGAAGGAGTCGAGAGAGCATTGGCTCCTCCAGATGTGCACCACGAGAGA
CTGCTGCTTGTTTCAATTCTTGGATTTGTGGTAAACCTAGTAGGAATATTTGTTTTCAATCATGGAGGTC
ACGGACATTCTCATGGCTCTGGCCATGGCCACAGTCATTCCCTCTTTAATGGTGCTCTAGATCACAGCCA
TGGCCACGAAGATCATTGCCATAGTCACGAAGCCAAGCACGGAGCTGCGCACAGCCATGACCATGACCAC
GCTCATGGCCATGGGCACCTGCATTCCCACGATGGCCCATCCTTCAAAGCAACGGCAGGACCCAGCAGAC
AGATTTTACAAGGTGTATTTTTACACATTCTAGCCGATACACTGGGAAGTATTGGTGTAATTGCCTCTGC
CATCATGATGCAAAATTTTGGGTTGATGATAGCAGATCCTATCTGTTCGATTCTTATAGCCATTCTTATA
GTTGTAAGTGTTATTCCACTTTTAAGAGAGTCTGTTGGAATATTAATGCAAAGAACTCCTCCCTCGTTGG
AAAATACGCTTCCCCAGTGCTATCAGAGGGTGCAACAGTTACAAGGAGTTTACAACTTGCAAGAACAGCA
CTTCTGGACACTCTGTTCTGATGTTTACGTGGGAACCTTGAAGCTCGTGGTAGCCCCTGATGCTGACGCC
AGGTGGATCTTAAGCCAAACGCATAATATTTTTACTCAGGCTGGAGTGAGACAGCTTTATGTACAGATTG
ACTTTGCGGCAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

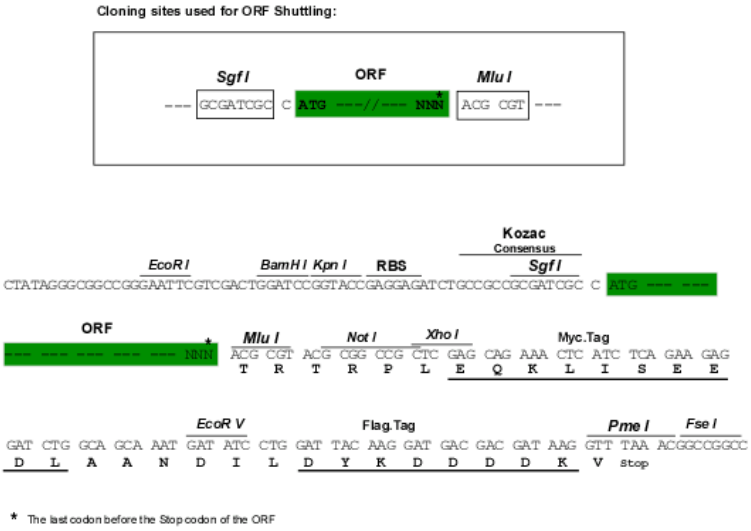
>MR205895 protein sequence
Red=Cloning site Green=Tags(s)

MLPLSIKDDEYKPPKFNLFGKISGWFRSILSDKTSRNLFFFLCLNLSFAFVELLYGIWSNCLGLISDSFH
MFFDSTAILAGLAASVISKWRDNDAFSYGYVRAEVLAGFVNGLFLIFTAFFIFSEGVERALAPPDVHHER
LLLVSILGFVVNLVGIFVFNHGGHGHSHGSGHGHSHSLFNGALDHSHGHEDHCHSHEAKHGAAHSHDHDH
AHGHGHLHSHDGPSFKATAGPSRQILQGVFLHILADTLGSIGVIASAIMMQNFGLMIADPICSILIAILI
VVSVIPLLRESVGILMQRTPPSLENTLPQCYQRVQQLQGVYNLQEQHFWTLCSDVYVGTLKLVVAPDADA
RWILSQTHNIFTQAGVRQLYVQIDFAAM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_023214

ORF Size: 1137 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_023214.2

RefSeq Size: 9020 bp

RefSeq ORF: 1137 bp

Locus ID: 66500

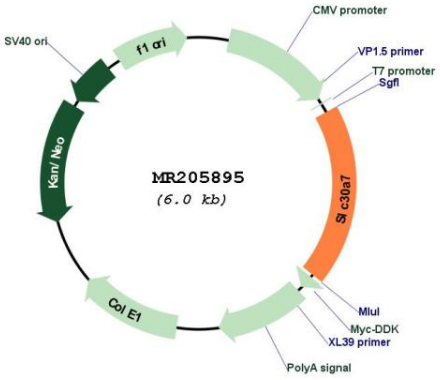
UniProt ID: Q9JKN1

Cytogenetics: 3 G1

MW: 41.8 kDa

Gene Summary: Seems to facilitate zinc transport from the cytoplasm into the Golgi apparatus. Partly regulates cellular zinc homeostasis. Required with ZNT5 for the activation of zinc-requiring enzymes, alkaline phosphatases (ALPs). Transports zinc into the lumens of the Golgi apparatus and the vesicular compartments where ALPs locate, thus, converting apoALPs to holoALPs. Required with ZNT5 and ZNT6 for the activation of TNAP (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205895