

Product datasheet for **MR208083**

Slc30a1 (NM_009579) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc30a1 (NM_009579) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc30a1
Synonyms:	AI839647; C130040I11Rik; Znt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208083 representing NM_009579
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCTGCTGGGGCCGAACCGCGCCGGCTGCTGTGCATGCTGCTGCTGACCTTCATGTTTCATGGTGC
 TGGAGGTGGTGGTGAGCCGGGTGACCGCTCGCTCGCCATGCTGTCCGACTCCTTCCACATGCTGTGCGGA
 CGTGCTGGCGCTCGTAGTGGCGCTGGTGGCCGAGCGCTTCGCCCGGAGGACTCACGCCACGAGAAGAAC
 ACGTTCGGCTGGATCCGCGCTGAGGTGATGGGCGCACTGGTGAACGCCATCTTCTCACGGGGCTGTGCT
 TCGCCATCTGCTGGAAGCCGTCGAGCGCTTCATCGAGCCGATGAGATGCAGCAGCCGCTCGTGGTGTGCT
 GAGCGTCGGCGTGGCGGGGCTGCTGGTCAACGTGCTGGGGCTCTGTCTGTTCCACCATCACAGCGGCGAG
 GGCCAGGGCGGGCCACGGCCACTCGCACGGCCACGGCCACGGCCACCTCGCCAAGGGCGCGCAAGG
 CGGGCCGCGGGGGTTCGAGGCGGGCGCCGCCGGGGCCGGGACCAGGAGGAGACCAACACGCT
 GGTGGCCAAACACAGCAATTC AACGGGCTGAAGGCGGACCAGGCAGAGCCAGAAAAATTGAGAAGTGAT
 GACCCAGTGGATGTACAAGTAAATGGGAATCTCATCCAGGAGTCTGACAACTCGGAAGCGGAAGACAACA
 GGGCTGGGCGAGTGAATATGCGAGGAGTGTCTGCACGTCCTTGAGATGCCTTGGGCTCCGTGATCGT
 GGTGCTGAATGCCTTGGTCTTTTACTTTAACTGGAAGGTTGACTGAAGACGACTTTTGTACGAACCCG
 TGTTTTCTGATCCCTGCAAATCGTCTGTAGAGATAATTAACAGCACCCAGGCCCGATGCGTGACGCTG
 GCCCATGCTGGTGTCTACCTAGACCAACCCCTTGTATTATAATGGTTTGTATACTTCTGTACACGAC
 TTACCCATTGCTCAAGGAGTCTGCTCTCATTCTTCAAACTGTCCCTAAGCAAATCGATCAAAACAC
 TTGGTGAAGAGCTTCGAGACGTTGACGGCGTTGAGGAAGTCCATGAGCTACATGCTGGCAGTGGCCG
 GAAGCAGGATCATCGCCACTGCCACATAAAAATGTGAGGACCCCGCTTCTACATGCAGGTGGCCAAAG
 CATTAAAGATGTCTTTCATAATCATGGAATCCAGCTACCACCATCCAGCCTGAATTCGCTAGCGTCGGC
 TCTAAGTCAAGTGTGCTCCCGTGTGAGCTCGCCTGCAGAACTCAGTGTGCCCTGAAGCAGTGTGCGGGA
 CACGGCCACAGGTGCATTCTGGGAAGGATGCAGAGAAGGCGCCAACAGTTAGCATTTCTGTTTAACT
 CAGTGAGAATCTAGAGAAGAAGGCCAGGAGGACTAAAGCTGAAGGCGAGTCTCCCTGCTGTGGTGATAGAG
 ATTA AAAACGTGCCAAACAAACAGCCCGAATCATCTTTG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208083 representing NM_009579
 Red=Cloning site Green=Tags(s)

MGCWGRNRGRLLCMLLLTFMFMVLEVVSRTASLAMLSDSFHMLSDVLALVVALVAERFARRTHATQKN
 TFGWIRAEVMGALVNAIFLTGLCFAILLEAVERFIEPHEMQQPLVVL SVGVAGLLVNVLLGLCLFHHHSGE
 GQGAGHGHSHGHGHLAKGARKAGRAGVEAGAPPGRAPDQEETNTLVANTSNSNGLKADQAEPEKLRS
 DPVDVQVNGNL IQESDNLEAEDNRAGQLNMRGVFLHVLGDALGSVIVVVALVFYFNWKGCTEDDFCTNP
 CFPDPCSSVEIINSTQAPMRDAGPCWVLYLDPTLCIIMVCILLYTTYPLLKESALILLQTVPKQIDIKH
 LVKELRDVDGVEEVHELHWQLAGSRIIAAHIKCEDPASYMQVAKTIKDVFNHNGIHATTIQPEFASVG
 SKSSVLPCELACRTQCALKQCCGTRPQVHSGKDAEKAPTVISI SLELSENLEKKARRTKAEGSLPAVVIE
 IKNVFNKQPESSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9016_d01.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_009579

ORF Size: 1509 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_009579.3](#), [NP_033605.1](#)

RefSeq Size: 5230 bp

RefSeq ORF: 1512 bp

Locus ID: 22782

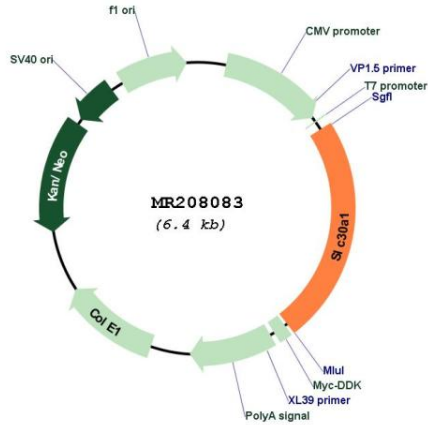
UniProt ID: [Q60738](#)

Cytogenetics: 1 97.01 cM

MW: 55.2 kDa

Gene Summary: May be involved in zinc transport out of the cell. Lethality of knockout early in gestation suggests a role of the protein in fetal zinc acquisition and retention.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208083