

Product datasheet for MR225364

Slc30a8 (NM_172816) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc30a8 (NM_172816) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Slc30a8
Synonyms: C820002P14Rik; ZnT-8; ZnT8
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR225364 representing NM_172816
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGTTTCTTGAGAGAACTTATCTTGTGAATGATCAAGCCACCAAGATGTACGCCTTCCCTCTAGACA
 GAGAACTTCGACAGAAGCCTGTGAATAAAGATCAGTGTCTGGAGACAGGCCAGAGCATCCAGAGGCAGG
 AGGCATCTATCACTGCCACAACAGCGCCAAGGCCACAGGGAACAGGTCGAGCAAGCAAGCGCATGCCAAG
 TGGAGACTCTGTGCTGCTTCAGCAATATGCTTCATCTTTATGGTGGCAGAGGTGGTGGGTGGACACGTTG
 CTGGGAGTCTGGCTATCCTCACTGATGCGGCTCATCTCTTAATTGACCTGACTAGTTTCCCTGCTCAGTCT
 CTTTTCTTTGTGGTTGTCATCGAGGCCCTTCCAAGCGGCTGACATTTGGGTGGTATCGAGCAGAGATC
 CTCGGTGGCCCTGCTGTCTGCTCCTTTGCATCTGGGTGGTACTGGTGTGCTGTACCTGCCTGTGAGC
 GCCTTTTGTATCCTGATTACCAGATCCAAGCAGGTATCATGATCACTGTTTCAGGCTGTGCAGTGGCAGC
 CAACATTGTAATAACTATGATTTTGACCAACGGAACCTTGGCTACAACCACAAGGATGTACAAGCTAAT
 GCCAGTGTCCGAGCAGCCTTTGTGATGCCCTGGGGATGATTTTCAGAGCATCAGTGTGCTAATTAGTG
 CTCTCATTATCTACTTTAAGCCTGACTACAAAATTGCTGATCCAGTGTGCACATTTATCTTTCCATCCT
 GGTTTTGGCCAGCACCGTCATGATCTTAAAGACTTCTCCATCTACTCATGGAAGGTGTCCAAAGGGC
 CTGAGTTACAACAGTGTGAAAGAGATCATCCTCGCAGTTGATGGCGTGATCTCCGTGCACAGTCTACACA
 TCTGGTCACTGACTGTGAACCAAGTGATTCTCTGTTTCATGTTGCTACAGCTGCCAGCCAGGACAGCCA
 GTCTGTGCGGACAGGAATTGCTCAAGCCCTCAGCAGCTTTGATCTTCACTCTCTTACCATTAGATAGAA
 TCTGCAGCAGACCAGGCCCCAGCTGCCTTCTCTGCGAAGACCCTCAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



[View online »](#)

Protein Sequence: >MR225364 representing NM_172816
Red=Cloning site Green=Tags(s)

MEFLERTYL VNDQATKMYAFPLDREL RQKPVNKDQCPGDRPEHPEAGGIYHCHNSAKATGNRSSKQAHAK
 WRLCAASAICFIFMVAEVVGGHVAGSLAILTDAHLLIDLTSFLLSLFSLWLSRPPSKRLTFGWYRAEI
 LGALLSVLCI WVVTGVL LYLACERLLYPDYQIQAGIMITVSGCAVAANIVLTMILHQRNFGYNHKDVQAN
 ASVRAAFVHALGDV FQSI SVLISALIIYFKPDYKIADPVCTFIF SILVLASTVMILKDFSILLMEGVPKG
 LSYNSVKEIILAVDGVISVHSLHIWSLTVNQVILSVHVATAASQDSQSVRTGIAQALSSF DLHSLTIQIE
 SAADQDPSCLLCEDPQD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2367_g10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172816

ORF Size: 1104 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_172816.4](#)

RefSeq Size: 1906 bp

RefSeq ORF: 1104 bp

Locus ID: 239436

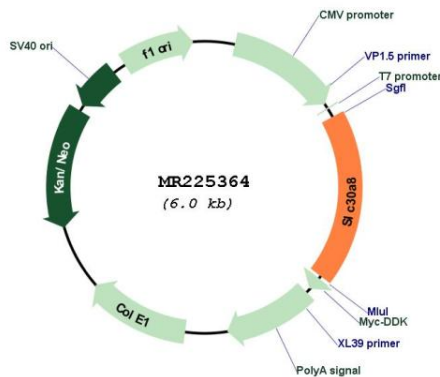
UniProt ID: [Q8BGG0](#)

Cytogenetics: 15 C

MW: 40.2 kDa

Gene Summary: Facilitates the accumulation of zinc from the cytoplasm into intracellular vesicles, being a zinc-efflux transporter. May be a major component for providing zinc to insulin maturation and/or storage processes in insulin-secreting pancreatic beta-cells (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225364