

## Product datasheet for **MR208952**

### **Slc11a2 (NM\_008732) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc11a2 (NM_008732) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc11a2
Synonyms:	DCT1; DMT1; mk; Nramp2; van
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR208952 representing NM\_008732  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGTGTGGATCCTAAAGAAAAGATGCCAGACGATGGCGCTTCTGGGGACCATGGAGACTCTGCCAGCC  
 TTGGCGCCATCAACCCTGCCTACAGCAACTCATCCCTCCACATTCCACTGGAGACTCTGAGGAGCCCTT  
 CACCACCTACTTTGATGAGAAAAATCCCATTCCTGAGGAGGAGTACTCTTGTGTTTGTAGCTTCGTAAGCTC  
 TGGCGCTTACGGGGCCTGGCTTCTTATGAGCATTGCCTACCTAGACCCAGGAAACATCGAATCTGATT  
 TGCAGTCTGGAGCAGTGGCTGGATTTAAGCTGCTCTGGGTGCTCCTTTGGCCACCATTGTGGGGCTGCT  
 GCTCCAGCGCCTTGACGCGAGACTTGGAGTGGTACCAGGCTTGCATCTTGTCTGAAGTATGCACCGTCAG  
 TATCCCAAGTCCACGGATCATCCTGTGGCTGATGGTGGAGTTGGCAATCATTGGTTCTGACATGCAGG  
 AAGTATTGGCTCAGCCATCGCCATCAATCTCCTGTCTGCAGGAAGGGTCCCCCTGTGGGGCGGAGTCT  
 CATCACCATCGCAGACACTTTTGTGTTCTTTTTTTGGACAAATATGGCTTGCAGGAGCTGGAAGCGTTT  
 TTTGGCTTCTCATCACTATCATGGCCCTCACGTTTGGATATGAGTACATTACAGTGAAGCCAGCCAGA  
 GCCAAGTACTCAGGGCATGTTCTGTCCGCTCCTGTCCAGGGTGCCGCACCCCTCAGTGGAGCAGGCGGT  
 GGGCATCGTGGGAGCTGTGATCATGCCGCAACATGTACCTGCATTCTGCCTTAGTCAAGTCTAGACAG  
 GTGAATCGGGCCAATAAGCAGGAAGTGCAGGGAAGCCAATAAGTACTTCTTCATCGAGTCTGCATCGCGC  
 TCTTTGTTTCTTCATCATCAATGTCTTTGTGCTGTCCGCTCTTTGCTGAAGCATTTTTGAGAAAACCA  
 CAAGCAGGTGGTTGAAGTCTGCAAAAATAACAGCAGCCCCATGCTGACCTTTTCCCAGTGACAACTCT  
 ACTCTGGCTGTGGACATCTACAAAGGGGTGTTGTGCTTGGATGTTACTTCGGGCCTGCAGCTCTTACA  
 TCTGGGAGTGGGATCCTGGCTGCCGTCAGAGCTCCACCATGACTGGAACCTATTCTGGCCATTTGT  
 CATGGAGGGATTCTGAACCTAAAATGGTCCGCTTTGCCGAGTGATCCTGACCCGGTCTATCGCCATC  
 ATCCCCACCTGCTCGTCTGTCTTCCAGGATGTGGAGCACCTAACGGGATGAATGACTTCTGAATG  
 TCCTGCAGAGCTTACAGCTCCCCTTTGCTCTCATACCCATCCTCACGTTTACAAGCCTGCGGCCAGTGAT  
 GAGTGAGTTTTCAATGGAATAGGCTGGAGGATTGCCGGTGGCATCCTGGTCTGATCGTCTGCTCCATC  
 AACATGTACTTTGTAGTGGTTTATGTCCAGGAGCTAGGGCATGTGGCACTCTATGTGGTGGCTGCAGTGG  
 TTAGCGTGGCTTATTTGACCTTTGTGTTCTACTTGGGTGGCAGTGTGATTGCATTGGGTCTGCTTT  
 CCTGGACTGTGGACGCTCGTACCGCTGGGACTGACCGCTCAGCCTGAACCTATCTTCTGAACACCGTG  
 GATGCTGACTCAGTGGTGTCCAGA

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208952 representing NM\_008732  
 Red=Cloning site Green=Tags(s)

MVLDPKEKMPDDGASGDHGSASLGA INPAYSNSLPHSTGDSEEPFTTYFDEKIPPEEEYSCFSFRKL  
 WAFTGPGFLMSIAYLDPGNIESDLQSGAVAGFKLLWVLLLATIVGLLLQRLAARLGVVTLHLAEVCHRQ  
 YPKVPRIILWLMVELAIIIGSDMQEVIIGSAIAINLLSAGRVPLWGGVLIITADTFVFLFDKYGLRKLEAF  
 FGFLITIMALTFGYEYITVKPSQSQVLRGMFVPSCPGCRTPQVEQAVGIVGAVIMPHNMYLHLSALVKSQRQ  
 VNRANKQEVREANKYFFIESCIALFVSFIINVFVVSVAEAFEFKTNKQVVEVCKNNSPHADLFPSDNS  
 TLAVDIYKGGVVLGCYFGPAALYIWA VGILAAQSSTMTGTYSQQFVMEGFLNLKWSRFARVILTRSI  
 IPTLLVAVFQDVEHLTGMNDFLNVLQSLQLPFALIPILTFSLRPVMSEFSNGIGWRIAGGILVLIVCSI  
 NMYFVVVYVQELGHVALYVVAAVVSVAYLTFVFLGWQCLIALGLSFLDCGRSYRLGLTAQPELYLLNTV  
 DADSVVSR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9027\\_a05.zip](https://cdn.origene.com/chromatograms/mm9027_a05.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_008732

ORF Size: 1704 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\\_008732.2](#), [NP\\_032758.2](#)

RefSeq Size: 3041 bp

RefSeq ORF: 1707 bp

Locus ID: 18174

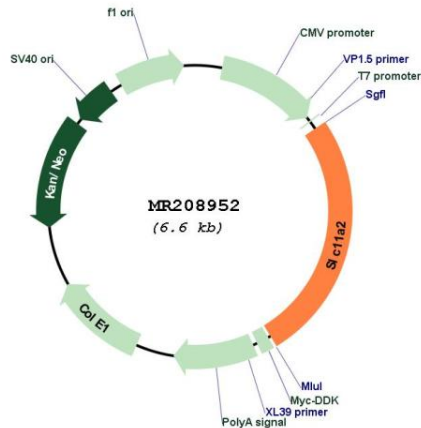
UniProt ID: [P49282](#)

Cytogenetics: 15 56.29 cM

MW: 62.8 kDa

Gene Summary: May serve to import iron into the mitochondria (By similarity). Important in metal transport, in particular iron. Involved in apical iron uptake into duodenal enterocytes. Involved in iron transport from acidified endosomes into the cytoplasm of erythroid precursor cells. May play an important role in hepatic iron accumulation and tissue iron distribution.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208952