

Product datasheet for **MG208952**

Slc11a2 (NM_008732) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Slc11a2 (NM_008732) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Slc11a2 |
| Synonyms: | DCT1; DMT1; mk; Nramp2; van |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MG208952 representing NM_008732
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGTGGATCCTAAAGAAAAGATGCCAGACGATGGCGCTTCTGGGGACCATGGAGACTCTGCCAGCC
 TTGGCGCCATCAACCCTGCCTACAGCAACTCATCCCTCCACATTCCACTGGAGACTCTGAGGAGCCCTT
 CACCACCTACTTTGATGAGAAAAATCCCATTCCTGAGGAGGAGTACTCTTGTGTTTGTAGCTTCGTAAGCTC
 TGGCGCTTACGGGGCCTGGCTTCTTATGAGCATTGCCTACCTAGACCCAGGAAACATCGAATCTGATT
 TGCAGTCTGGAGCAGTGGCTGGATTTAAGCTGCTCTGGGTGCTCCTTTGGCCACCATTGTGGGGCTGCT
 GCTCCAGCGCCTGCAGCGAGACTTGGAGTGGTACCAGGCTTGCATCTTGTCTGAAGTATGTCACCGTCAG
 TATCCCAAGTCCACGGATCATCCTGTGGCTGATGGTGGAGTTGGCAATCATTGGTTCTGACATGCAGG
 AAGTATTGGCTCAGCCATCGCCATCAATCTCCTGTCTGCAGGAAGGGTCCCCCTGTGGGGCGGAGTCT
 CATCACCATCGCAGACACTTTTGTGTTCTTTTTTTGGACAAATATGGCTTGCAGGAGCTGGAAGCGTTT
 TTTGGCTTCTCATCACTATCATGGCCCTCACGTTTGGATATGAGTACATTACAGTGAAGCCAGCCAGA
 GCCAAGTACTCAGGGCATGTTCTGTCCGCTCCTGTCCAGGGTGCCGCACCCCTCAGGTGGAGCAGGCGGT
 GGGCATCGTGGGAGCTGTGATCATGCCGCAACATGTACCTGCATTCTGCCTTAGTCAAGTCTAGACAG
 GTGAATCGGGCCAATAAGCAGGAAGTCCGGAAGCCAATAAGTACTTCTTCATCGAGTCTGCATCGCGC
 TCTTTGTTTCTTCATCATCAATGTCTTTGTGCTGTCCGCTTTTGTCTGAAGCATTTTTGAGAAAACCAA
 CAAGCAGGTGGTTGAAGTCTGCAAAAATAACAGCAGCCCCATGCTGACCTTTTCCCAGTGACAACCTCT
 ACTCTGGCTGTGGACATCTACAAAGGGGTGTTGTGCTTGGATGTTACTTCGGGCTGCAGCTCTCTACA
 TCTGGCAGTGGGATCCTGGCTGCCGGTCAGAGCTCCACCATGACTGGAACCTATTCTGGCCAGTTTGT
 CATGGAGGGATTCTGAACCTAAAATGGTCCGCTTTGCCCGAGTGATCCTGACCCGGTCTATCGCCATC
 ATCCCCACCTGCTCGTCTGTCTTCCAGGATGTGGAGCACCTAACGGGGATGAATGACTTCTGAATG
 TCCTGCAGAGCTTACAGCTCCCCTTTGCTCTCATACCCATCCTCACGTTTACAAGCCTGCCGCCAGTGAT
 GAGTGAGTTTTCAATGGAATAGGCTGGAGGATTGCCGGTGGCATCCTGGTCTGATCGTCTGCTCCATC
 AACATGTACTTTGTAGTGGTTTATGTCCAGGAGCTAGGGCATGTGGCACTCTATGTGGTGGCTGCAGTGG
 TTAGCGTGGCTTATTTGACCTTTGTGTTCTACTTGGGTGGCAGTGTGTTGATTGCATTGGGTCTGTCTT
 CCTGGACTGTGGACGCTCGTACCGCTGGGACTGACCGCTCAGCCTGAACCTATCTTCTGAACACCGTG
 GATGCTGACTCAGTGGTGTCCAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208952 representing NM_008732
 Red=Cloning site Green=Tags(s)

MVLDPKEKMPDDGASGDHGSASLGA INPAYSNSLPHSTGDSEEPFTTYFDEKIP IPEEYSCFSFRKL
 WAFTGPGFLMSIAYLDPGNIESDLQSGAVAGFKLLWVLLLATIVGLLLQRLAARLGVVTLHLAEVCHRQ
 YPKVPRIILWLMVELAIIGSDMQEVI GSAIAINLLSAGRVPLWGGVLIITADTFVFLFDKYGLRKLEAF
 FGLFITIMALTFGYEYITVKPSQSQVLRGMFVPSCPGCRTPQVEQAVGIVGAVIMPHNMYLHSALVKSQRQ
 VNRANKQEVREANKYFFIESCIALFVSFIINVFVVSVFAEAF FEKTNKQVVEVCKNNSPHADLFPSDNS
 TLAVDIYKGGVVLGCYFGPAALYIWA VGI LAAGQSSTMTGTYSQGFVMEGFLNLKWSRFARVILTRISAI
 IPTLLVAVFQDVEHLTGMNDFLNVLQSLQ LPFALIPILTFTSLRPVMSEF SNGIGWRIAGGILVLIVCSI
 NMYFVVVVYVQELGHVALYVVA AVVSVA YLTFVYLGWQCLIALGLSFLDCGRSYRLGLTAQPELYLLNTV
 DADSVVSR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_008732

ORF Size: 3038 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: 2972 bp

RefSeq ORF: 1707 bp

Locus ID: 18174

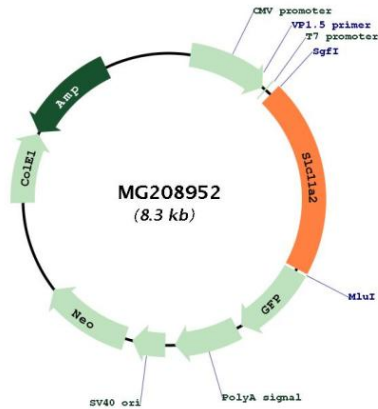
UniProt ID: [P49282](#)

Cytogenetics: 15 56.29 cM

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 MG208952