

## Product datasheet for **MR208988**

### **Slc40a1 (NM\_016917) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc40a1 (NM_016917) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc40a1
Synonyms:	Dusg; Fpn1; IREG1; MTP; MTP1; OI5; Pcm; Slc11a3; Slc39a1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR208988 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACCAAGGCAAGAGATCAAACCCATCAGGAAGGATGCTGTGGATCCTTAGCAAACACCTGACCTCAG  
 CAAAATTCCTCCTACCTTGGCCACTCTCTCCACTTGGGGGATCGGATGTGGCACTTTGCAGTGTC  
 TGTGTTTCTGGTGAACCTATGGAAACAGCCTTCTCTTGACAGCTGTCTATGGACTGGTGGTGGCAGGC  
 TCTGTTCTGGTCTGGGAGCCATCATTGGTGACTGGGTGGATAAGAATGCCAGACTTAAAGTGGCCAGA  
 CGTCACTGGTGGTTCAGAATGTGTCCGTCATCCTCGGGAATCATCCTGATGATGGTTTTCTACACAA  
 GAATGAGCTCCTGACCATGTACCATGGATGGTCTTACTGTCTGCTACATCCTGATCATCACTATTGCA  
 AACATTGCAAATTTGGCCAGTACTGCCACTGCGATCACAATCAAAGGGACTGGATTGTTGTTGTGGCAG  
 GAGAAAACAGGAGCAGATTAGCAGACATGAATGCTACCATTAGAAGGATTGACCAGCTAACCAACATCCT  
 GGCCCCATGGCTGTCGCCAGATTATGACATTTGGTTCTCCAGTCATTGGCTGTGGTTTTATTTCCGGT  
 TGGAAATTTGGTGTCCATGTGTGTGGAGTACTTCTGCTCTGGAAGGTTTACCAGAAGACCCCTGCTCTGG  
 CTGTA AAAAGCTGCTCTCAAGGTAGAGGAGTCAGAACTGAAGCAGCTGACCTCACCTAAAGATACTGAGCC  
 AAAACCTTTGGAGGGAACATCTAATGGGTGAGAAAAGACTCAAACATCCGTGAACCTTGAATGTGAACAA  
 GAGCCACCTGTGCCTCCAGATGGCAGAGCCCTCCGCACTTCCGAGATGGATGGGTCTCCTACTATA  
 ACCAGCCAGTGTTTCTGGCTGGCATGGGCTGGCTTTCCTCTATATGACAGTCTGGGCTTTGACTGTAT  
 CACTACAGGTACGCCTACACTCAGGGCTGAGTGGATCCATCCTTAGTATTTGATGGGAGCATCAGCA  
 ATAATCGAATAATGGGAACGTGGCCTCACCTGGTACGTCGAAAATGTGGCCTTGTTCGGACTGGTC  
 TATTCTCAGGACTAGCCAGCTTCTGTTTAATCTTGTGTGATCTCCGATTCATGCCTGGAAGCCC  
 CTGGACCTGTCTGTTTCTCATTGAAGATATCCGTTCTAGGTTTGTGAATGTGGAGCCAGTGTCCCA  
 ACTACAAAATACCTGAGACCGTCTTACAACAGAAATGCATATGCCAATGTCTAATGTCCATGAGA  
 TGAGTACTAAACCCATCCCATAGTCTCTGTGACGCTGCTGTTTGCAGGAGTCATTGCTGCTAGAATCGG  
 TCTTTGGTCTTTGATTTGACGGTGACACAGTTGCTGCAAGAAAATGTAATTGAATCTGAAAGAGGCATT  
 ATCAATGGTGTGCAGAACTCCATGAACTACCTTCTGACCTTCTGCATTTATCATGATGATCTTTGGCC  
 CAAATCCTGAAGCTTTTGGCTTGTGTTGATTGATTTAGTCTCCTTTGTGGCAATGGGACATCTTATGTA  
 TTTCCGATTTGCCAGAAGACTCTGGCAACCAGATTTTGTGTTGTTGCTGATGAAAAAGAAGTTACA  
 GATGAAAATCAACCGAATACATCTGTTGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208988 protein sequence  
 Red=Cloning site Green=Tags(s)

MTKARDQTHQEGCCGSLANYLTSAKFLLYLGHSLSTWGDWMWHFVSVFLVELYGNLLLLTAVYGLVVAG  
 SVLVLGAIIIGDWVDKNARLKVAQTSLVVQNVSVILCGIILMMVFLHKNELLTMYHGWLTVCYILIIITIA  
 NIANLASTATAITIQRDWIVVVAGENRSRLADMNATIRRIDQLTNILAPMAVGQIMTFGSPVIGCGFISG  
 WNLVSMCVEYFLLWKVYQKTPALAVKAALKVEESELKQLTSPKDTEPKPLEGTHLMGEKDSNIRELECEQ  
 EPTCASQMAEPFRTRFDGWVSYNQPVFLAGMGLAFLYMTVLGFDICITTYAYTQGLSGSILSILMGASA  
 ITGIMGTVAFTWLRKCGLVRTGLFSGLAQLSCLILCVISVFMGPSPLDLSVSPFEDIRSRFVNVEPVSP  
 TTKIPETVFTTEMHMSNMSNVHEMSTKPIPIVSVSLLFAGVIAARIGLWSFDLTVTQLLQENVIESERGI  
 INGVQNSMNYLLDLLHFIMVILAPNPEAFGLLVLSVSFVAMGHLMYFRFAQKTLGNQIFVCGPDEKEVT  
 DENQPNTSVV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9010\\_g07.zip](https://cdn.origene.com/chromatograms/mm9010_g07.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_016917

ORF Size: 1710 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 Size: 3380 bp

RefSeq ORF: 1713 bp

Locus ID: 53945

UniProt ID: [Q9JHI9](#)

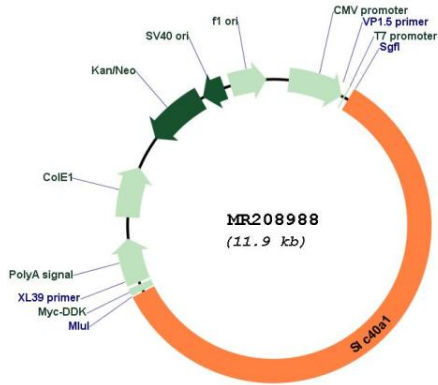
Cytogenetics: 1 C1.1

MW: 62.7 kDa

**Gene Summary:**

May be involved in iron export from duodenal epithelial cell and also in transfer of iron between maternal and fetal circulation. Mediates iron efflux in the presence of a ferroxidase (hephaestin and/or ceruloplasmin).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208988