

## Product datasheet for **RC205219**

### **SLC40A1 (NM\_014585) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SLC40A1 (NM_014585) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC40A1
Synonyms:	FPN1; HFE4; IREG1; MST079; MSTP079; MTP1; SLC11A3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC205219 representing NM\_014585  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACCAGGGCGGGAGATCACAACCGCCAGAGAGGATGCTGTGGATCCTTGGCCGACTACCTGACCTCTG  
 CAAAATTCCTTCTACCTTGGTCACTCTCTACTTGGGGAGATCGGATGTGGCACTTTGCGGTGTC  
 TGTGTTTCTGGTAGACTCTATGGAAACAGCCTCCTTTTACAGCAGTCTACGGGCTGGTGGTGGCAGGG  
 TCTGTTCTGGTCTGGGAGCCATCATCGGTGACTGGGTGGACAAGAATGCTAGACTTAAAGTGGCCAGA  
 CCTCGCTGGTGTACAGAATGTTTCAGTCATCCTGTGGAATCATCCTGATGATGGTTTTCTTACATAA  
 ACATGAGCTTCTGACCATGTACCATGGATGGTCTCACTTCTGCTATATCCTGATCATCACTATTGCA  
 AATATTGCAAATTTGGCCAGTACTGCTACTGCAATCACAATCAAAGGGATTGGATTGTTGTTGTCAG  
 GAGAAGACAGAAGCAAATAGCAAATATGAATGCCACAATACGAAGGATTGACCAGTTAACCAACATCTT  
 AGCCCCATGGCTTTGGCCAGATTATGACATTTGGCTCCCGAGTCATCGGCTGTGGCTTTATTTCCGGGA  
 TGGAACTTGGTATCCATGTGCGTGGAGTACGTTCTGCTCTGGAAGGTTTACCAGAAAACCCAGCTCTAG  
 CTGTGAAAGCTGGTCTTAAAGAAGGAAACTGAATTGAAACAGCTGAATTTACACAAAGATACTGAGCC  
 AAAACCCCTGGAGGAACTCATCTAATGGGTGTGAAAGACTCTAACATCCATGAGCTTGAACATGAGCAA  
 GAGCCTACTTGTGCCTCCAGATGGCTGAGCCCTCCGTACCTCCGAGATGGATGGGTCTCCTACTACA  
 ACCAGCCTGTGTTCTGGCTGGCATGGGTCTGCTTTCCTTTATATGACTGTCTGGGCTTTGACTGCAT  
 CACCACAGGACGCCTACACTCAGGACTGAGTGGTCCATCCTCAGTATTTGATGGGAGCATCAGCT  
 ATAATGGAATAATGGGAACTGTAGCTTTTACTTGGCTACGTCGAAAATGGTGTGGTTCGGACAGGTC  
 TGATCTCAGGATTGGCACAGCTTCTCTGTTGATCTTGTGTGATCTCTGTATTCATGCCTGGAAGCCC  
 CCTGGACTTGTCCGTTTCTCCTTTTGAAGATATCCGATCAAGGTTCAATCAAGGAGAGTCAATTACACCT  
 ACCAAGATACCTGAAATTACAAGTAAATATACATGTCTAATGGGTCTAATTCTGCTAATATTGTCCCGG  
 AGACAAGTCTGAATCTGTGCCATAATCTCTGTGAGTCTGCTGTTTGCAGGCGTATTGCTGCTAGAAT  
 CGGTCTTTGGTCTTTGATTTAACTGTGACACAGTTGCTGCAAGAAAATGTAATTGAATCTGAAAGAGGC  
 ATTATAAATGGTGTACAGAACTCCATGAATCTCTTCTGATCTTCTGCATTTTCATCATGGTCATCCTGG  
 CTCCAAATCCTGAAGCTTTGGCTTGTCTGATTTGATTTGAGTCTCCTTTGTGGCAATGGCCACATTAT  
 GTATTTCCGATTTGCCAAAATACTCTGGGAAACAAGCTTTGCTTGGGCTCTGATGCAAAGAAGTT  
 AGGAAGGAAAATCAAGCAAATACATCTGTTGTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC205219 representing NM\_014585  
 Red=Cloning site Green=Tags(s)

MTRAGDHNQRGCCSLADYLTSAKFLLYLGHSLSTWGDWMWHFVSVFLVELYGNLLLLTAVYGLVVAG  
 SVLVLGAIIGDWVDKNARLKVAQTSLVVQNVSVILCGIILMMVFLHKHELLTMYHGWLTVSCYILIIITIA  
 NIANLASTATAITIQRDWIVVVAGEDRSKLANMNATIRRIDQLTNILAPMAVGQIMTFGSPVIGCGFISG  
 WNLVSMCWEYVLLWKVYQKTPALAVKAGLKEEETELKQLNLHKDTEPKPLEGTHLMGVKDSNIHELEHEQ  
 EPTCASQMAEPFRTRFDGWVSYNQPVFLAGMGLAFLYMTVLGFDICITTYAYTQGLSGSILSILMGASA  
 ITGIMGTVAFTWLRKCGLVRTGLISGLAQLSCLILCVISVFMPSPLDLVSPFEDIRSRFIQGESITP  
 TKIPEITTEIYMSNGSNSANIVPETSPEVPIISVSLLFAGVIAARIGLWSFDLTVTQLQENVIESERG  
 IINGVQNSMNYLLDLLHFIMVILAPNPEAFGLLVLISVSFVAMGHIMYFRFAQNTLGNKLFACGPDAKEY  
 RKENQANTSVM

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_014585

ORF Size: 1713 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](mailto: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](#)

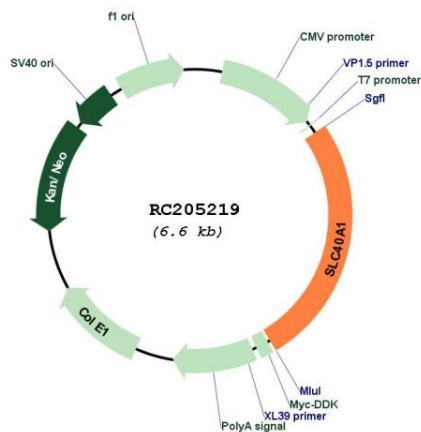
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_014585.6](#)  
**RefSeq Size:** 3460 bp  
**RefSeq ORF:** 1716 bp  
**Locus ID:** 30061  
**UniProt ID:** [Q9NP59](#)  
**Cytogenetics:** 2q32.2  
**Protein Families:** Druggable Genome, Transmembrane  
**MW:** 62.4 kDa  
**Gene Summary:** The protein encoded by this gene is a cell membrane protein that may be involved in iron export from duodenal epithelial cells. Defects in this gene are a cause of hemochromatosis type 4 (HFE4). [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC205219