

Product datasheet for **RG205219**

SLC40A1 (NM_014585) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC40A1 (NM_014585) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC40A1
Synonyms:	FPN1; HFE4; IREG1; MST079; MSTP079; MTP1; SLC11A3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205219 representing NM_014585
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCAGGGCGGGAGATCACAACCGCCAGAGAGGATGCTGTGGATCCTTGGCCGACTACCTGACCTCTG
 CAAAATTCCTTCTACCTTGGTCACTCTCTACTTGGGGAGATCGGATGTGGCACTTTGCGGTGTC
 TGTGTTTCTGGTAGACTCTATGGAAACAGCCTCCTTTTACAGCAGTCTACGGGCTGGTGGTGGCAGGG
 TCTGTTCTGGTCTGGGAGCCATCATCGGTGACTGGGTGGACAAGAATGCTAGACTTAAAGTGGCCAGA
 CCTCGCTGGTGTACAGAATGTTTCAGTCATCCTGTGGAATCATCCTGATGATGGTTTTCTTACATAA
 ACATGAGCTTCTGACCATGTACCATGGATGGTCTCACTTCTGCTATATCCTGATCATCACTATTGCA
 AATATTGCAAATTTGGCCAGTACTGCTACTGCAATCACAATCAAAGGGATTGGATTGTTGTTGTCAG
 GAGAAGACAGAAGCAAATAGCAAATATGAATGCCACAATACGAAGGATTGACCAGTTAACCAACATCTT
 AGCCCCATGGCTTTGGCCAGATTATGACATTTGGCTCCCCAGTCATCGGCTGTGGCTTTATTTGCGGA
 TGGAACTTGGTATCCATGTGCGTGGAGTACGTTCTGCTCTGGAAGGTTTACCAGAAAACCCAGCTCTAG
 CTGTGAAAGCTGGTCTTAAAGAAGAGGAACTGAATTGAAACAGCTGAATTTACACAAAGATACTGAGCC
 AAAACCCCTGGAGGAACTCATCTAATGGGTGTGAAAGACTCTAACATCCATGAGCTTGAACATGAGCAA
 GAGCCTACTTGTGCCTCCAGATGGCTGAGCCCTCCGTACCTCCGAGATGGATGGGTCTCCTACTACA
 ACCAGCCTGTGTTTCTGGCTGGCATGGTCTTGCCTTCTTTATATGACTGTCTGGGCTTTGACTGCAT
 CACCACAGGACGCCTACACTCAGGACTGAGTGGTCCATCCTCAGTATTTGATGGGAGCATCAGCT
 ATAATGGAATAATGGGAACTGTAGCTTTTACTTGGCTACGTCGAAAATGGTGGTTCGGACAGGTC
 TGATCTCAGGATTGGCACAGCTTCTGTTTGTCTTGTGTGATCTCTGTATTCATGCCTGGAAGCCC
 CCTGGACTTGTCCGTTTCTCCTTTTGAAGATATCCGATCAAGGTTCAATCAAGGAGAGTCAATTACACCT
 ACCAAGATACCTGAAATACAACGAAATATACATGTCTAATGGGTCTAATTCTGCTAATATTGTCCCGG
 AGACAAGTCTGAATCTGTGCCATAATCTCTGTCAGTCTGCTGTTTGCAGGCGTCATTGCTGCTAGAAT
 CGGTCTTTGGTCTTTGATTTAACTGTGACACAGTTGCTGCAAGAAAATGAATTGAATCTGAAAGAGGC
 ATTATAAATGGTGTACAGAACTCCATGAACTATCTTCTGATCTTCTGCATTTTCATCATGGTCATCCTGG
 CTCCAAATCCTGAAGCTTTGGCTTGTCTGATTTGATTTTCACTCTCTTGTGGCAATGGCCACATTAT
 GTATTTCCGATTTGCCAAAATACTCTGGGAAACAAGCTTTGCTTGGGTCCTGATGCAAAAAGAGTT
 AGGAAGGAAAATCAAGCAAATACATCTGTTGTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG205219 representing NM_014585
 Red=Cloning site Green=Tags(s)

MTRAGDHNQRGCGSLADYLTSKFLLYLGHSLSTWGDWMWHFAVSVFLVELYGNLSLLLTAVYGLVVAG
 SVLVLGAIIGDWVDKNARLKVAQTSLVVQNVSVILCGIILMMVFLHKHELLTMYHGWLVTSCYILIIITIA
 NIANLASTATAITIQRDWIVVVAGEDRSKLANMNATIRRIDQLTNILAPMAVGQIMTFGSPVIGCGFISG
 WNLVSMCWEYVLLWKVYQKTPALAVKAGLKEEETELKQLNLHKDTEPKPLEGTHLMGVKDSNIHELEHEQ
 EPTCASQMAEPFRTFRDGVWSYVQVFLAGMGLAFLYMTVLGFDCITTYAYTQGLSGSILSILMGASA
 ITGIMGTVAFTWLRKCGLVRTGLISGLAQLSCLILCVISVFMGPSPLDLSVSPFEDIRSRFIQGESITP
 TKIPEITTEIYMSNGSNSANIVPETSPEVPIISVSLFAGVIAARIGLWSFDLTVTQLQENVIESERG
 IINGVQNSMNYLLDLLHFIMVILAPNPEAFGLLVLSVSVFVAMGHIMYFRFAQNTLGNKLFACGPDAKEV
 RKENQANTS SV

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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 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](#)

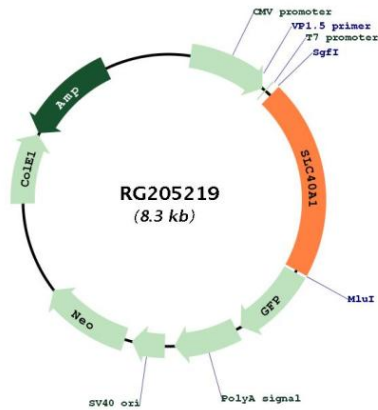
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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
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 RG205219