

Product datasheet for **SC127301**

SLC40A1 (NM_014585) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC40A1 (NM_014585) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC40A1
Synonyms:	FPN1; HFE4; IREG1; MST079; MSTP079; MTP1; SLC11A3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC127301 sequence for NM_014585 edited (data generated by NextGen Sequencing)

```

ATGACCAGGGCGGGAGATCACAACCGCCAGAGAGGATGCTGTGGATCCTTGGCCGACTAC
CTGACCTCTGCAAAATTCCTTCTCTACCTTGGTCATTCTCTCTACTTGGGAGATCGG
ATGTGGCACTTTGCGGTGCTGTGTTTCTGGTAGAGCTCTATGAAACAGCCTCCTTTTG
ACAGCAGTCTACGGGCTGGTGGTGGCAGGGTCTGTTCTGGTCTGGGAGCCATCATCGGT
GACTGGGTGGACAAGAATGCTAGACTTAAAGTGGCCAGACCTCGCTGGTGGTACAGAAT
GTTTCAGTCATCCTGTGTGGAATCATCCTGATGATGGTTTTCTTACATAAACATGAGCTT
CTGACCATGTACCATGGATGGGTCTCACTTCTGCTATATCCTGATCATCACTATTGCA
AATATTGCAAAATTTGGCCAGTACTGCTACTGCAATCACAATCCAAAGGGATTGGATTGTT
GTTGTTGCAGGAGAAGACAGAAGCAAACTAGCAAAATGAATGCCACAATACGAAGGATT
GACCAGTTAACCAACATCTTAGCCCCATGGCTGTTGGCCAGATTATGACATTTGGCTCC
CCAGTCATCGGCTGTGGCTTTATTTGGGATGGAACCTGGTATCCATGTGCGTGGAGTAC
GTTCTGCTCTGGAAGTTTACCAGAAAACCCAGCTCTAGCTGTGAAAGCTGGTCTTAAA
GAAGAGGAAACTGAATTGAAACAGCTGAATTTACACAAAGATACTGAGCCAAAACCCCTG
GAGGGAACCTCATCTAATGGGTGTGAAAGACTCTAACATCCATGAGCTTGAACATGAGCAA
GAGCCTACTTGTGCCTCCAGATGGCTGAGCCCTTCCGTACCTCCGAGATGGATGGGTC
TCTACTACAACCAGCCTGTGTTTCTGGCTGGCATGGGTCTTGCTTTCCTTTATATGACT
GTCCTGGGCTTTGACTGCATCACCACAGGGTACGCCTACACTCAGGGACTGAGTGGTTCC
ATCCTCAGTATTTGATGGGAGCATCAGCTATAACTGGAATAATGGGAACTGTAGCTTTT
ACTTGGCTACGTCGAAAATGTGGTTTGGTTCGGACAGGTCTGATCTCAGGATTGGCACAG
CTTTCCTGTTTGATCTTGTGTGATCTCTGTATTTCATGCCTGGAAGCCCTGGACTTG
TCCGTTCTCCTTTTGAAGATATCCGATCAAGGTTCAATCAAGGAGAGTCAATTACACCT
ACCAAGATACCTGAAATTACAACCTGAAATATACATGCTAATGGGTCTAATTCTGCTAAT
ATTGTCCCGGAGACAAGTCTGAATCTGTGCCATAATCTCTGTCACTGCTGTTTGA
GGCGTCATTGCTGCTAGAATCGGTCTTTGGTCCTTTGATTTAACTGTGACACAGTTGCTG
CAAGAAAATGTAATTGAATCTGAAAGAGGCATTATAAATGGTGTACAGAATCCATGAAC
TATCTTCTTGATCTTCTGCATTTTCATCATGGTCATCCTGGCTCCAAATCCTGAAGCTTTT
GGCTTGCTCGTATTGATTCAGTCTCCTTTGTGGCAATGGGCCACATTATGATTTCCGA
TTTGCCAAAATACTCTGGGAAACAAGCTCTTTGCTTGGCGTCTGATGCAAAAGAAGTT
AGGAAGGAAAATCAAGCAATACATCTGTTGTTTGA
    
```

Clone variation with respect to NM_014585.5

5' Read Nucleotide Sequence: >OriGene 5' read for NM_014585 unedited

```

ATTTTGAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGAGAGAGCTGGCT
CAGGGCGTCCGCTAGGCTCGGACGACCTGCTGAGCCTCCCAAACCGCTTCCATAAGGCTT
TGCTTTTCCAACCTCAGCTACAGTGTTAGCTAAGTTTGGAAAGAAGGAAAAAAGAAAATC
CCTGGGCCCTTTTCTTTTGTCTTTGCCAAAGTCGTCGTTGTAGTCTTTTGGCCAAAGG
CTGTTGTGTTTTAGAGGTCCTATCTCCAGTTCCTTGCACCTCTGTTAACAAGCACCTCA
GCGAGAGCAGCAGCAGCGATAGCAGCCGAGAAGAGCCAGCGGGTTCGCGTAGTGTATG
ACCAGGGCGGGAGATCACAACCGCCAGAGAGGATGCTGTGGATCCTTGGCCGACTACCTG
ACCTCTGCAAAATTCCTTCTCTACCTTGGTCATTCTCTCTACTTGGGAGATCGGATG
TGGCACTTTGCGGTGCTGTGTTTCTGGTAGAGCTCTATGAAACAGCCTCCTTTTGACA
GCAGTCTACGGGCTGGTGGTGGCAGGGTCTGTTCTGGTCTGGGAGCCATCATCGGTGAC
TGGGTGGACAAGAATGCTAGACTTAAAGTGGCCAGACCTCGCTGGTGGTACAGAATGTT
TCAGTCATCCTGTGTGGAATCATCCTGATGATGGTTTTCTTACATAAACATGAGCCTTCT
GACCATGTACCATGGATGGGNTCTCACTCCCTGCTATATCCTGATCATCACTATTGCAAA
TATTGCANATTTGGGCAGTACTGCTACTGCAATCACATCCCAAGGGATTGGATTGTTGTT
GTTGCAGGAAAAACAGAGCCAACCTGCAAAATATGATGCCACA
    
```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014585 unedited ATGTACCGCGGCACGCTATCTATAGTCGAGTTTTTTTTTTTTTTTTTTTTTAAAGATTTTCAAA ATATTTTTATATAGAAATTTTTACAAAGATTTTACAACATAGCAAATCATTATGTCATA CTGTAGAAAGATGAAGCAAAGGATTAACCTCCAAGGATAAAGAAAGTGCTCATAGCAACG TATTGCAGTCTCCATGAAAGTGCATATAAACGGTTAAGGCAAAGTACCATCTTGGTACAG ACATGTTGCAAAGTACTTTTTAAAACAATTTTTAAAAATATATACAAACTTTTTTCTTC TATTTCTCTCAAAGGCATTTGAAAGGGTACTTTTATGAATATTCTTGCTGTAGAACAAT GTAGAAAATAACTTCTGGGTATAAAACAGTAAAAATAAAAATATTCTACCTGAGTGTGTTA AATCAAGTGATTTGTAACAAAACCTTACAAGTGAGGGCTTTTACATGTAACCTGCC AGGCTGAAGGCTTACACCCTCATGTTCTACAACACAGATCACTAATGATGATAACATGAG TTAAATTGGGATTCTTGCCTTCTGTGTGGCTTTTGGCTTCTAGTTCTATGACCAAAC ATTGACATATTTGAAGTCTGTATGCAGCCATTGTGTGATAAATCTACTTTACAGCTTTGC TTCTACCTGCAGTTACATGATAACCATGCTGNGAAGTGTACATATGCTTCATAACAATA TGGTGCCCATCTGATAATAAACTACAAAAGTGTCTTTTAGCTATACCTTACACCTTA CTAGAGAATACTAGTTTCAGGGTTTCGTATTTACCACTTCTGTTATTATCTTTATCATCA TTCGGATCACTAAGGCTATTCTTAGCCTCCATAATTTATCCCTACTACCTTGAAGATTT CCTTTGCTATAAAAACCAACACGGACACAATCTATCATCTCTGCTTGACACTAATCGATT TCTCCACAATACTGACTTACTGTATTATTGTCCCATAAACATTCTGATACTGCATACCC GAGCGACCGCGCTATCTCTCTCTTCN
Restriction Sites:	NotI-NotI
ACCN:	NM_014585
Insert Size:	3330 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_014585.3 , NP_055400.1

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]