

## Specifications:

Gene:	hSLC40A1
Accession:	NP_055400
Insert size:	1729bp
Concentration:	10µg at 0.2µg/µL

## Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

## Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

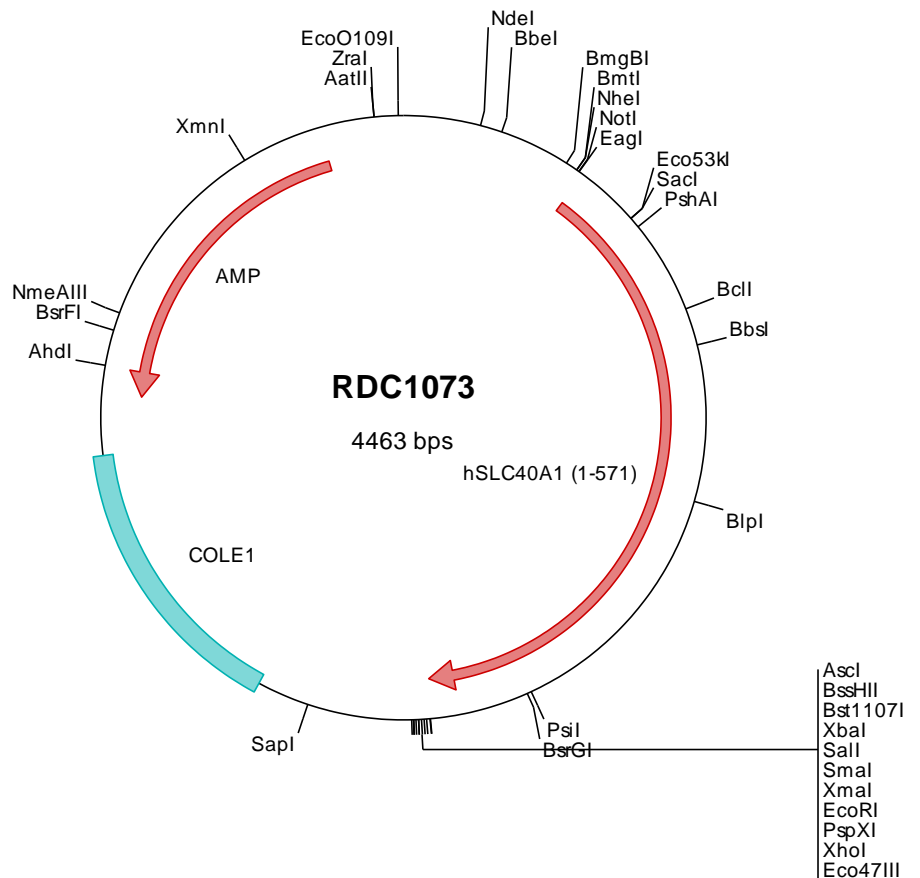
## hFerroportin/SLC40A1 cDNA Plasmid

**SLC40A1 solute carrier family 40 (iron-regulated transporter), member 1 [ *Homo sapiens* (human) ]**

**Also known as:** FPN1; HFE4; MTP1; IREG1; MST079; MSTP079; SLC11A3

### Summary:

SLC40A1 is an iron-regulated transporter that may be involved in iron export from duodenal epithelial cells. It mediates iron efflux in the presence of ferroxidase. Defects in SLC40A1 are a cause hemochromatosis type 4 (HFE4), an autosomal dominant iron-loading disorder.





> RDC1073 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gacgctccc gagacggta cagcttgtct gtaagcggat gccgggagca gacaagccc
101 tcaggggcgc tcagcgggtg ttggcgggtg teggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatagtcg gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attgcgcat caggctgcgc aactgttggg aaggcgatc ggtcggggcc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acggcagggt tttccagtc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagcct ggatccgata tcgctagcgc ggccgccacc atgaccaggg cgggagatca caaccgcoag agaggatgct gtggatcctt
501 ggccgactac ctgacctctg caaaatcctt tctctacctt ggtcattctc tctctacttg gggagatcgg atgtggcact ttgcgggtgc tgtgtttctg
601 gtagagctct atggaacacg cctccttttg acagcagctc aogggtggtt ggtggcaggg tetgttctgg tctggggagc catcatcggt gactgggtgg
701 acaagaatgc tagacttaaa gtggcccaga cctcgtcgtt ggtacagaaat gtttcagtca tctgtgtggy aatcatcctg atgatggttt tcttacataa
801 aatgagcctt ctgacctagt accaattatg gtttctcact tctcgtata tctgtatcat cactattgca aatattgcaa atttggccag tactgtact
901 gcaatcaaaa tccaaaggga ttggattggt gtgtgtgcag gagaagacag aagcaaaacta gcaaatatga atgcccacat acgaaggatt gaccagttaa
1001 ccaacatctt agccccatg gctgttggcc agtattgac atttggctcc ccagtcacg getgtggtt tatttcggga tggaaactgg tatccatgtg
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2201 ggaattcttc gagcgtcctg ctctagcttg cgcgtaact ggctcatagct gtttctctgt tgaattggt atccgctcac aattccacac aacatacag
2301 ccggaagcat aaagtgtaaa gcttgggggt cctaagtagt gagctaactc acattaattg cgttgcgctc actgcccgt ttccagtcgg gaaacctgtc
2401 gtgcccagctg cattaatgaa tcggccaacg cgcggggaga ggcggtttgc gtattggggc ctcttccgct tctcgtctca ctgactcgtc gcgctcggct
2501 gttcggctgc ggcgagcggg atcagctcac tcaaaaggcgg taatacgggt atccacagaa tcagggggata acgcagaaa gaacatgtga gcaaaaggcc
2601 agcaaaaaggc caggaaaccgt aaaaaggcgg cgttctggc gtttttccat aggtctccgc cccctcctct cccctcctct gttccgacc ttccgcttac
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3501 gggagggctt accatctggc cccagtgctg caatgatacc gcgagacca cgtcaccgg ctccagatt atcagcaata aaccagccag ccggaaggcc
3601 cgagcgcaga agtggctcgt caactttatc cgcctccatc cagtctatta attgttccg ggaagctaga gtaagtagtt cgccagttaa tagtttggc
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3901 gcataattct cttactgtca tgccatccgt aagatgcttt tctgtgactg gtgagtactc aaccaagtca ttctgagaat agtgtatgcg gccagcagct
4001 tgctcttggc cggcgtcaat accggataat accgcgccac atagcagaac tttaaaagtg ctcatctatg gaaaacgttc tctggggcga atactctca
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4201 aacaggaagg caaaatgccc caaaaaagg aataaggcgc acacggaaat gttgaaatct catactcttc ctttttcaat attattgaag catttatcag
4301 ggttattgtc tcatgagcgg atacatattt gaatgtattt agaaaaataa acaaataggg gttccgcca ctttccccg aaaagtgcca cctgacgtct
4401 aagaaacat tattatcatg acattaacct ataaaaatag cgttatcagc agggcctttc gtc

> RDC1073 Translated Insert Sequence

1 mtragdhnrq rgccogslady ltsakfllyl ghlslstwgd mwhfavsvfl velygnl11 tavyglvvg svl1vlgaii dwvdknarlk vaqtslvvqn
101 vsvilcgiil mmvflhkkel ltmhygwvlt scyiliitia nianlastat aitiqrdwiv vvagedrskl anmnatirri dq1ltnilapm avgqimtfgs
201 pvigcgfisg wnlvsmcvey vllwkvyqkt palavkaglk eeetelkqln lhkdtrepkpl egthlmvkd sniheleheq eptcasqmae pfrtfrdgwv
301 syynqpvfla gmglaflmyt vlgfdcttt yaytqglsgs ilsilmgasa itgimgtvaf twlrrkcgvl rtglisglaq lsclilcvis vfmppsp1dl
401 svspfedirs rfiqgesitp tkipeittei ymngnsnsan ivpetspesv piisvsl1fa gviaariglw sfdltvtqll qenvieserg iingvqnsnm
501 yl1dl1h1fim vilapnpeaf gllvlisvsf vamghimyfr faqntlgnkl facgpdae v rkenqantsv v