

Product datasheet for **RR207472**

Slc40a1 (NM_133315) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc40a1 (NM_133315) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc40a1
Synonyms:	Fpn1; Slc11a3; Slc39a1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR207472 representing NM_133315
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCAAGTCAAGAGATCAGACCCATCAGGAAGGATGCTGTGGATCTTTAGCAAACACCTGACCTCAG
 CAAAATTCCTCCTACCTTGGCCACTCTCTCCACTTGGGGGATCGGATGTGGCACTTTGCAGTGTC
 TGTGTTTCTGGTGAACCTACGAAACAGCCTCCTTGTGACAGCTGTCTACGGTTGGTGGTGGCAGGC
 TCTGTTCTGGTCTGGGAGCCATCATTGGTGACTGGGTGGATAAGAATGCCAGACTTAAAGTGGCCAGA
 CGTCCCTGGTGGTTCAGAATGTATCAGTCATTCTCTCGGGATCATCCTGATGATGGTTTTCTTACACAA
 GAATGAGCTTCTGAACATGTATCATGGATGGTCTTACTGTCTGCTACATCCTGATCATCACCATTGCA
 AACATTGCGAATTTGGCCAGTACTGCCACTGCAATTAACAATCAAAGGGACTGGATTGTTGTCGTAGCAG
 GAGAAAACAGGAGCAGATTAGCAGACATGAATGCTACCATTAGAAGGATTGACCAGCTAACCAACATCCT
 GGCCCCATGGCTGTTGGCCAGATTATGACATTCGGTTCGCCAGTCATTGGCTGTGGTTTCAATTTCTGGT
 TGGAAATTTGGTGTCCATGTGTGTGGAGTACTTCTGCTCTGGAAGGTTTACCAGAAGACCCCTGCTCTGG
 CTGTA AAAAGCTGCTCTCAAGGTAGAGGAGTCAGAACTGAAGCAGCTGACCTCACCTAAAGATACTGAGCC
 AAAACCTTTGGAGGGAACCTCACCTAATGGGTGAGAAAAGACTCTAACATCCGTGAACCTTGAATGTGAACAA
 GAACCCACCTGTGCCTCCAGATCGCAGAACCTTCCGCACCTTTTCGAGATGGATGGGTCTCCTACTATA
 ACCAGCCCGTATTTTTGGCTGGCATGGGCTGGCTTTCCTCTATATGACAGTCTGGGCTTCGACTGTAT
 CACCACAGGATATGCTTACACTCAGGGACTGAGTGGTTCATCCTCAGTGTTTGATGGGAGCATCAGCA
 ATAATCGAATAATGGAACTGTGGCTTCACTTGGCTACGTCGAAAATGTGGCCTTGTTCGGACTGGTC
 TGTCTCAGGACTGGCTCAGCTTCTTGTGTTGATCTTGTGTGTGATCTCCGTGTTTCATGCCTGGAAGCCC
 CTGGACCTGTCTGTTTCTCCATTTGAAGATATCCGTTCTAGGTTTATACATGAGGAGGCAGTGTCTCA
 ACTACAAAATACCTGAAACAGAAATGCTTATGTCTAATGTGTCTAATGTTGCAATACCGTCCATGAGA
 TGAGTACTAAATCCGTCCCATAACTCCGTCAGCCTGCTGTTTGCAGGAGTCATTGCTGCTAGAATCGG
 TCTTTGGTCTTTGATTTGACTGTGACACAGTTGCTGCAAGAAAATGTAATTGAATCAGAAAAGAGGCATT
 ATCAATGGTGTGCAGAACTCCATGAACTACCTTCTCGACCTTCTGCATTTTCATCATGGTCATCTTGGCCC
 CAAATCCTGAAGCTTTTGGCTTGTAGTATTGATTTTCACTCTCCTTTGTGGCAATGGGACATCTTATGTA
 TTTCCGTTTTGCCAGAAGACTCTGGCAACCAGATTTTGTGTTGCTCCTGATGAAAAGGAAGTTACA
 GATGAAAGTCAGCCTAATACATCTGTTGTGGATGAAAGTCAGCCTAATACATCTGTTGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207472 representing NM_133315
 Red=Cloning site Green=Tags(s)

MTKSRDQTHQEGCCGSLANYLTSAKFLLYLGHSLSTWGDWRMWHFAVSVFLVELYGNLLLLTAVYGLVVAG
 SVLVLGAIIIGDWVDKNARLKVAQTSLVVQNVSVILCGIILMMVFLHKNELLNMYHGWLTVCYILIIITIA
 NIANLASTATAITIQRDWIVVVAGENRSRLADMNATIRRIDQLTNILAPMAVGQIMTFGSPVIGCGFISG
 WNLVSMCVEYFLLWKVYQKTPALAVKAALKVEESELKQLTSPKDTEPKPLEGTHLMGEKDSNIRELECEQ
 EPTCASQIAEPFRTRFDGWVSYNQPVFLAGMGLAFLYMTVLGFDCTTTGYAYTQGLSGSILSVLMGASA
 ITGIMGTVAFTWLRKCGLVRTGLFSGLAQLSCLILCVISVFMGPSPLDLSVSPFEDIRSRFIEHEAVSS
 TTKIPETEMLSNVSNVNTVHEMSTKSVPIISVSLLFAGVIAARIGLWSFDLTVTQLLQENVIESERGI
 INGVQNSMNYLLDLLHFIMVILAPNPEAFGLLVLISVSFVAMGHLMYFRFAQKTLGNQIFVCAPDEKEVT
 DESQPNTSVVDESQPNTSVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1622_c01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_133315

ORF Size: 1710 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](#)

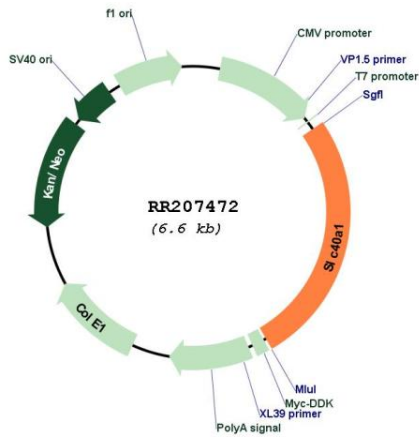
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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 Size:	3254 bp
RefSeq ORF:	1713 bp
Locus ID:	170840
UniProt ID:	<u>Q923U9</u>
Cytogenetics:	9q22
MW:	62.6 kDa
Gene Summary:	human homolog acts as an iron transporter and is mutated in an autosomal dominant form of hemochromatosis [RGD, Feb 2006]

Product images:



Circular map for RR207472