

Product datasheet for **RN212206**

Slc46a1 (NM_001013969) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc46a1 (NM_001013969) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc46a1
Synonyms:	RGD1309472
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN212206 representing NM_001013969
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGGGGCGCGTGGAGCCCGTGGGCTCGTCCCACCGTCTCCTCACCGCCCGCGTGTGTCCGCGGCC
CCGTGGAGCCCTCGTTTTCTAGCCAACCTTTCGCGTGGTTCTACAGGGACCGCTCACCACACAGTACAT
TTGGCACCGCATCAGCACCGAGCTCGGATAACAATGGCACCCGCCACCGGAGAAGTGTGGCAACCAGAGC
GCGGATCCCGTCTGAAGGAAGTGGAGACCCTGACATCCCACTGGACCCTCTACATGAACGTGGGAGGCT
TCCTGGTGGGACTCTTCTGGTCCACCCTCTGGGAGCCTGGAGTGACCGCGTGGGTCGCCGCCATTGCT
GGTGTGGCCTCTTGGTCTGCTGCTCCAGGCCGTGGTGTCCATCTTTGGTGGCAACTACAACGCAC
ATCGGGTCTTCGTGCTCGGCCGAGCCCTTTGTGCCCTCTGGGAGATTTCAACGGCCTTCTTGCTGCTA
GCTTTGCCTCTGTGGCTGATGTTAGCTTAATCACAGTCGCACCTCCGGATGGCTCTGCTGGAAGCATG
CATTGGTGTGGCCGGACCTGGCAAGCCTTCTGGGGTCACTGGCTCCGGGCCAGGGTTATGCCAAC
CCTTTCTGGCTGGCTTTGGCTGTCTGATCGTTATGACTCTATATGCAGCATTCTGTTTTGGTGAGACAG
TGAAGGAGCCAAAGTCCACGAGGCTTTTCACGCTCCGCCATCACCGATCCATTGTCCAGCTGTATGTGGT
CCCAGCCCAGAGAAGTCCAGGATGCATCTAGCCCTGACTCATTGGCCATATTCGTGGTGGTCACTGTG
CACTTTGGGGCTCAAGACATCCTGACGCTCTATGAGCTAAGCACACCCCTCTGCTGGGACTCCAAGCTGA
TTGGCTATGGCTCAGCAGCCAGCACTTACCCTACCTCACAGCCTGCTGGGCTGAGACTTCTGCAGTT
CTGCCTGGCCGACACCTGGTGGCTGAGATTGGCTGGCCTTCAACATCCTGGGAATGGTGGTCTTTGCG
TTCGCAACCATCACACCCCTCATGTTACAGGGTACGGATTACTTCTGTGCTGTTGGTCACTACGCCTG
TGATCCGGCCAAAGCTCTCCAAGCTAGTGAGCGAGTCCGAGCAGGGTGTCTCTTTTCGGCTGGCCTG
TGTGAATAGCTTGGCCATGTTGATGGCCTCCGGCATCTTCAACTACTCTACCCGGCCACTCTGAACCTT
ATGAAGGGCTTCCCTTCTCCTGGGAGCTGGCCTCTTTATCCCGCCATTCTGATTGGGGTACTGG
AGAAGGTTAATCCACACCAGAGTTCAGCAGTTCCTCAGAACTCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001013969

Insert Size: 1380 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001013969.1](#), [NP_001013991.1](#)

RefSeq Size: 1900 bp

RefSeq ORF: 1380 bp

Locus ID: 303333

UniProt ID: [Q5EBA8](#)

Cytogenetics: 10q25

Gene Summary: Has been shown to act both as an intestinal proton-coupled high-affinity folate transporter and as an intestinal heme transporter which mediates heme uptake from the gut lumen into duodenal epithelial cells. The iron is then released from heme and may be transported into the bloodstream. Dietary heme iron is an important nutritional source of iron. Shows a higher affinity for folate than heme (By similarity).[UniProtKB/Swiss-Prot Function]