

Product datasheet for **MC228503**

Slc7a1 (NM_001301424) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc7a1 (NM_001301424) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc7a1
Synonyms:	4831426K01Rik; AI447493; Atrc-1; Atrc1; Cat1; mCAT-1; Rec-1; Rev-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228503 representing NM_001301424
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTGCAAAAACCTGCTCGGTCTGGGCCAGCAGATGCTGCGCCGGAAGTGGTGGACTGCAGCCGGG
 AGGAGAGCCGGCTGTCCCGCTGCCTCAACACCTATGACCTGGTAGCTCTTGGGGTGGGCAGCACCTTGGG
 CGCTGGTGTCTATGTCCTAGCCGGTGCCGTGGCCCGTGAAAATGCTGGCCCTGCCATCGTCATCTCCTTC
 TTGATTGCTGCTCTCGCCTCCGTGCTGGCCGGCCTGTGCTACGGCGAGTTTGGTGCCTGTCCCAAGA
 CGGGCTCAGCCTACCTCTACAGCTACGTGACGGTGGGGGAGCTTTGGGCCTTCATCACTGGCTGGAACCT
 GATTCTCTCTACATCATCGGTACTTCAAGCGTGGCAAGAGCCTGGAGTGCAGCTTTTGACGAGCTGATA
 GGCAAGCCCATCGGAGAGTTCTCACGTGACACATGGCCCTGAATGCTCCTGGGGTGTGGCCAAACCC
 CGGACATATTTGCTGTGATTATAATTATCATCTAACAGGACTGTTAACTCTTGGCGTGAAGGAGTCAGC
 CATGGTCAACAAAATTTTACCTGTATCAATGTCTGGTCTTGTGCTTCATCGTGGTGTCCGGGTTCTGTG
 AAAGGCTCCATTAACAACTGGCAGCTCACGGAGAAAATTTCTCCTGTAACAACAACGACACAAACGTGA
 AATACGGTGAGGGAGGGTTTATGCCCTTTGGATTCTCTGGTGTCTGTCAGGGGCAGCGACCTGCTTTTA
 TGCCCTTCTGGGCTTTGACTGCATCGCCACCACAGGGGAAGAAGTCAAGAACCCCAAGAGGCCATTCTT
 GTGGGCATCGTGGCGTCCCTCCTCATTTGCTTCATAGCGTACTTTGGCGTGTCCGCCGCTCTCACGCTCA
 TGATGCCTTACTTCTGCCTGGACATCGACAGCCCGCTGCCTGGTGCCTTCAAGCACCAGGGCTGGGAAGA
 AGCTAAGTACGCAGTGGCCATTGGCTCTCTGCGCACTTCCACCAGTCTCCTAGGCTCCATGTTTCCC
 ATGCCCGAGTTATCTATGCCATGGCTGAAGATGGACTACTGTTAAATTTTGGCCAAAATCAACAATA
 GGACAAAACACCCGTAATCGCCACTGTGACCTCAGGCGCCATTGCTGTGATGGCCTTCTCTTTGA
 ACTGAAGGACCTGGTGGACCTCATGTCCATTGGCACTCTCCTGGCTTACTCTTTGGTGGCTGCCTGTGTT
 TTGGTCTTACGGTACCAGCCAGAACAACCTAATCTGGTATACCAGATGGCCAGAACCACCGAGGAGCTAG
 ATCGAGTAGATCAGAATGAGCTGGTCAAGTCCAGTGAATCACAGACAGGCTTTTTACCGGTAGCCGAGAA
 GTTTTCTCTGAAATCCATCCTCTCACCAAGAAGTGGAGCCCTCAAATTTCTCAGGGCTAATTGTGAAC
 ATTTACAGCCGGCCTCTAGCCGCTTATCATACCGTGTGCATTGTGGCCGTGCTTGGAAAGAGAGGCC
 TGGCCGAAGGGACTGTGGCAGTCTTGTAAATGACAGGGTCACTCCTCTGCATGCTGGTACAGG
 CATCATCTGGAGACAGCCTGAGAGCAAGACCAAGCTCTCATTTAAGGTACCTTTGTCCCGTACTTCT
 GTCTTGAGCATCTTCGTGAACATCTATCTCATGATGCAGCTGGACCAGGGCACGTGGGTCGGTTTGCAG
 TGTGGATGCTGATAGTTTACCATCTATTTCCGTTATGGGATCTGGCACAGTGAGGAAGCGTCCCTGGC
 TGCTGGCCAGGCAAGACTCCTGACAGCAACTTGGACCAGTGCAAA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001301424
- Insert Size:** 1869 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001301424.1](#), [NP_001288353.1](#)

RefSeq Size: 7079 bp

RefSeq ORF: 1869 bp

Locus ID: 11987

UniProt ID: [Q09143](#)

Cytogenetics: 5 88.48 cM

Gene Summary: High-affinity, low capacity permease involved in the transport of the cationic amino acids (arginine, lysine and ornithine) in non-hepatic tissues.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) has an alternate 5' UTR exon, compared to variant 1. Both variants 1 and 2 encode the same protein.