

## Product datasheet for **MC228103**

### Slc7a7 (NM\_001253679) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc7a7 (NM_001253679) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc7a7
Synonyms:	A1790233; my+lat1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228103 representing NM\_001253679  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGTCAACAGCACCAAGTATGAAGTGGCTGCTCAGCACGAGGCCGACGATGGCTCTGCTCTCGGGGATG  
GGCCAGCCCAGTGGCGGAGCAGGTCAAACCTGAAGAAGGAGATCTCCCTGCTTAATGGCGTGTGTCTCAT  
AGTGGGGAACATGATCGGCTCCGGCATCTTTGTCTCCCTAAGGGTGTGCTCATGTACAGTGCCTCTTTT  
GGCCTCTCACTGGTCATCTGGGCTGTGGGGGCATTTTCTCCGTCTTTGGGGCCCTTTGTTACGCTGAAC  
TGGGTACCACCATTAAGAAATCCGGGGCCAGCTATGCTTATATCCTGGAGGCCTTCGGGGGATTCCCTTG  
GTTTCATCCGCTCTGGACTTCTCTGCTCATCATTGAACCCACCAGCCAGGCCGTCATTGCCATCACCTTT  
GCCAACTACATGGTGCAGCCCTCTCCCGAGCTGTGGCGCTCCCTATGCCGCGGCCGCTGCTGGCCG  
CTGCCTGCATCTGTCTTAACCTTCATTAAGTGTGCCTATGTCAAGTGGGAACCCTGGTCCAAGATAT  
TTTCACCTATGCTAAGGTGTTGGCGCTGATTGCAGTCATCATTGCAGGCATTGTTAGACTTGGCCAGGGA  
GCCACAGCTAACTTTGAGAACTCCTTTGAGGGCTCATCCTTTGCAATGGGTGACATTGCTCTGGCACTCT  
ACTCAGCCCTGTTCTCCTACTCGGGCTGGGACACCCTAACTATGTCACCGAAGAGATCAGGAACCCCGA  
GAGGAACCTGGCCCTCTCCATTGGCATTCCATGCCAATCGTCACCATCATCTACCTCTTGACCAATGTG  
GCCTATTACAGTGTGCTAGACATAAAGGAAATCCTGGCCAGTGACGCTGTTGCCGTGACCTTTGCAGATC  
AAATTTTTGGAGTATTCAATTGGATAATTCCAGTAGCGGTTGCATTCTCTTGCTTTGGTGGGCTCAACGC  
CTCCATCGTGGCTGCTCCAGGCTTTTATTTGTGGGCTCGAGAGAAGGCCACCTCCCTGACGCCATCTGT  
ATGGTTCATGTTGAACGGTTCACACCAGTGCCTTCTACTCTTCAATGGTGTGTTGCTCCCTGGTCTACC  
TGTGCGTGGAGGACATCTCCAGCTCATTAACTACTATAGCTTCACTACTGTTTCTTTGTTGGCCTTTTC  
TATTGTGGGTGAGCTTTATCTACGCTGGAAGGACCCCGACCGCCCTCGCCCTCTCAAGCTCAGCCTTTTC  
TTCCCATCATCTTCTGCCTCTGCACCATCTTCTGTTGGTGGCTGTTCCACTTTACAGCGACACCATCAACT  
CCCTCATCGCATTGGCATTGCACTCTCAGGCCTGCCCTTCTACTTCTTTCATCATCAGAGTGCCAGAGCA  
CAAACGACCACTGTTCTCCGAGGATTGTAGCCTCTATCACACGGTACCTCCAGATCCTCTGTATGTCA  
GTTGCTGCAGAAATGGACTTGAAGATGGAGAGTTGTCCAACAAGATCCCAAGTCTAA**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_001253679

**Insert Size:** 1533 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\\_001253679.1](#), [NP\\_001240608.1](#)

**RefSeq Size:** 2126 bp

**RefSeq ORF:** 1533 bp

**Locus ID:** 20540

**UniProt ID:** [Q9Z1K8](#)

**Cytogenetics:** 14 C2

**Gene Summary:** Involved in the sodium-independent uptake of dibasic amino acids and sodium-dependent uptake of some neutral amino acids. Requires coexpression with SLC3A2/4F2hc to mediate the uptake of arginine, leucine and glutamine. Plays a role in nitric oxide synthesis via transport of L-arginine, and is involved in the transport of L-arginine in monocytes. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks an exon in the 5' UTR, compared to variant 1. Variants 1-3 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.