

Product datasheet for **MC228104**

Slc7a7 (NM_001253680) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc7a7 (NM_001253680) 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: >MC228104 representing NM_001253680
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTCAACAGCACCAAGTATGAAGTGGCTGCTCAGCACGAGGCCGACGATGGCTCTGCTCTCGGGGATG
 GGGCCAGCCCAGTGGCGGAGCAGGTCAAACCTGAAGAAGGAGATCTCCCTGCTTAATGGCGTGTGCTCAT
 AGTGGGGAACATGATCGGCTCCGGCATCTTTGTCTCCCTAAGGGTGTGCTCATGTACAGTGCCTCTTTT
 GGCTCTCACTGGTCATCTGGGCTGTCGGGGGCATTTTCTCCGTCTTTGGGGCCCTTTGTTACGCTGAAC
 TGGGTACCACCATTAAGAAATCCGGGGCCAGCTATGCTTATATCCTGGAGGCCTTCGGGGGATTCCCTTG
 GTTCATCCGCCTCTGGACTTCTCTGCTCATCATTGAACCCACCAGCCAGGCCGTCATTGCCATCACCTTT
 GCCAACTACATGGTGCAGCCCTCTCCGAGCTGTGGCGCTCCCTATGCCGCGGCCGCTGCTGGCCG
 CTGCCTGCATCTGTCTTAACCTTCATTAAGTGTGCCTATGTCAAGTGGGAACCCTGGTCCAAGATAT
 TTTACCTATGCTAAGGTGTTGGCGCTGATTGCAGTCATCATTGCAGGCATTGTTAGACTTGGCCAGGGA
 GCCACAGCTAACTTTGAGAACTCCTTTGAGGGCTCATCCTTTGCAATGGGTGACATTGCTCTGGCACTCT
 ACTCAGCCCTGTTCTCCTACTCGGGCTGGGACACCCTAACTATGTCACCGAAGAGATCAGGAACCCCGA
 GAGAACTTGGCCCTCTCCATTGGCATTCCATGCCAATCGTCACCATCATCTACCTCTTGACCAATGTG
 GCCTATTACAGTGTGCTAGACATAAAGGAAATCCTGGCCAGTGACGCTGTTGCCGTGACCTTTGCAGATC
 AAATTTTGGAGTATTCAATTGGATAATTCCAGTAGCGGTTGCATTCTCTTGGCTTTGGTGGGCTCAACGC
 CTCCATCGTGGCTGCTCCAGGCTTTATTTGTGGGCTCGAGAGAAGGCCACCTCCCTGACGCCATCTGT
 ATGGTTCATGTTGAACGGTTCACACCAGTGCCTTCTACTCTTCAATGGTGTGTTGTCCTGGTCTACC
 TGTGCGTGGAGGACATCTCCAGCTCATTAACTACTATAGCTTCACTACTGTTCTTTGTGGCCCTTTTC
 TATTGTGGGTGAGCTTTATCTACGCTGGAAGGACCCCGACCGCCCTCGCCCTCTCAAGCTCAGCCTTTTC
 TTCCCATCATCTTCTGCCTCTGCACCATCTTCTGGTGGCTGTTCCACTTTACAGCGACACCATCAACT
 CCCTCATCGCATTGGCATTGCACTCTCAGGCCTGCCCTTCTACTTCTTTCATCATCAGAGTGCCAGAGCA
 CAAACGACCACTGTTCTCCGAGGATTGTAGCCTCTATCACACGGTACCTCCAGATCCTCTGTATGTCA
 GTTGCTGCAGAAATGGACTTGAAGATGGAGAGTTGTCCAACAAGATCCCAAGTCTAA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001253680
- 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_001253680.1](#), [NP_001240609.1](#)

RefSeq Size: 2152 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 (3) differs in the 5' UTR, compared to variant 1. Variants 1-3 encode the same protein.