

Product datasheet for **MC220147**

Slc7a2 (NM_007514) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc7a2 (NM_007514) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc7a2
Synonyms:	20.5; A1158848; Atrc2; CAT-2; Cat2; Tea
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220147 representing NM_007514
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTCCCTGCAGAGCAGTGTGACTTTCGCGCGATGTCTGATCCGGAGAAAAATTGTCACACTGGACA
 GCCTTGAAGATCCAAACTCTGCCGCTGCTTAACCACCGTGGACCTCATCGCTTTGGGGTTGGAAGCAC
 TCTGGGCGCTGGGTCTACGTCCTGGCTGGGAAGTCGCCAAAGCCGATTCTGGCCCGAGTATCGTGGTG
 TCTTCTCATCGCTGCCCTGGCCTCGGTTATGGCCGGCCTTTGCTATGCTGAATTTGGGCCCGAGTAC
 CCAAGACTGGATCTGCGTATCTATACACTTACGTACGGTCCGAGAGCTGTGGCCTTCACTACTGGCTG
 GAATCTCATCCTGTCATATGTCATAGGTACGTCCAGTGTGCAAGAGCATGGAGTGGCACCTTCGACGAA
 CTTCTTAATAACAGATTGGCCAGTTTTTCAAACGTACTTCAAATGAATTACTGGTCTGGCAGAGT
 ATCCAGACTTCTTGGCGTGTGCCTTGTATTACTCCTGGCAGGTCTTTATCTTTGGAGTAAAAGAGTC
 TGCTTGGGTGAATAAATTTTTACAGCTATTAATATCCTGGTCTTCTCTTTGTCATGGTGGCTGGGTTT
 GTGAAAGGAAATGTGGCTAACTGGAAGATCAGTGAAGAGTTTCTCAAAAATATATCAGCAAGTGCCAGAG
 AACCACCTTCTGAGAACGGAACAAGCATCTACGGGGCTGGCGGCTTTATGCCCTATGGCTTTACAGGGAC
 GTTGGCTGGTGTGCAACGTGCTTTATGCCTTTGTGGGCTTTGACTGCATTGCAACAACGGGTGAAGAG
 GTTCGGAATCCGCAAAAGGCGATCCCATCGGAATAGTGACGTCCTTACTTGTCTGCTTTATGGCTTACT
 TTGGGGTTTCTGCAGCTTAAACGCTTATGATGCCTTACTACCTCCTGGATGAGAAAAGTCCACTCCCGGT
 CGCGTTTGAGTATGTCAGATGGAGCCCCGCAAAATATGTTGTCTCGGCAGGCTCCCTCTGCGCCTTATCA
 ACAAGTCTTCTGGTCTATGTTCCCTTACCCCGAATTCTGTTGCCATGGCCCGGATGGCTTACTGT
 TTAGATTTCTTGAAGAGTGAAGAGGCAGTCACCCGTTGCTGCCAGATGACTGCAGGGGTCATTTTC
 TGCTGTGATGGCCTTTCTTTTGGACCTGAAGGCCCTCGTGGACATGATGTCTATTGGCACCTCATGGCC
 TACTCTGCTGGTGGCAGCCTGTGTGCTTATTCTCAGGTACCAACCTGGCTTGTGTTATGACCAGCCAAAT
 ACACCCCTGAGAAAGAACTCTGGAATCATGTACCAATGCGACTTTGAAGAGCGAGTCCCAGGTACCAT
 GCTGCAAGGACAGGGTTTCAGCCTACGAACCTCTTACGCCCTCTGCCCTGCCACACGACAGTCGGCT
 TCCCTTGTGAGCTTTCTGGTGGGATTCTGGCTTCTCATCCTGGGCTTGAAGTATTCTAACACGATG
 GCGTCCAGGCCATTGCCAGACTGGAAGCCTGGAGCCTGGCTCTTCTGCCCTGTTCTTGTCTCTGCGT
 TGCCGTCATTCTGACATTTGGAGGCAGCCACAGAATCAGCAAAAAGTAGCCTTCATGGTCCCGTTCTTA
 CCGTTTCTGCCGCTTACAGCATCCTGGTCAACATTTACTTGATGTCAGTTAAGTGGCAGACTTGGGA
 TCAGATTCAGCATCTGGATGGCGCTTGGCTTTCTGATCTACTTCGCCATGGCATTAGACACAGCTTGGGA
 GGGTAACCCAGGGATGAAGAAGACGATGAGGATGCCTTTTTCAGACAACATCAATGCAGCAACAGAAGAA
 AAGTCCGCCATGCAAGCAAAATGACCATACCAAAAGAACTCAGCTTACCTTTTACTTTCATGAAAAGA
 CAAGTGAATGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_007514
- Insert Size:** 1974 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_007514.3](#), [NP_031540.2](#)

RefSeq Size: 7731 bp

RefSeq ORF: 1974 bp

Locus ID: 11988

UniProt ID: [P18581](#)

Cytogenetics: 8 23.89 cM

Gene Summary: Isoform 1 functions as low-affinity, high capacity permease involved in the transport of the cationic amino acids (arginine, lysine and ornithine). Isoform 2 also functions as permease that mediates the transport of the cationic amino acids (arginine, lysine and ornithine), but it has much higher affinity for arginine than isoform 1. May play a role in classical or alternative activation of macrophages via its role in arginine transport.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) encodes the shorter protein (isoform 1).