

Product datasheet for **MR216003**

Slc7a2 (NM_007514) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide
Sequence:

>MR216003 representing NM_007514
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGATTCCCTGCAGAGCAGTGCTGACTTTCGCGCATGTCTGATCCGGAGAAAAATTGTCACACTGGACA
GCCTTGAAGATCCAAACTCTGCCGCTGCTTAACCACCGTGGACCTCATCGCTTTGGGGTTGGAAGCAC
TCTGGGCGCTGGGTCTACGTCCTGGCTGGGGAAGTCGCCAAAGCCGATTCTGGCCCGAGTATCGTGGTG
TCTTCTCATCGCTGCCCTGGCCTCGGTTATGGCCGGCCTTTGCTATGCTGAATTTGGGCCCCGAGTAC
CCAAGACTGGATCTGCGTATCTATACACTTACGTACGGTCCGAGAGCTGTGGCCTTCACTACTGGCTG
GAATCTCATCCTGTCATATGTCATAGGTACGTCCAGTGTGCAAGAGCATGGAGTGGCACCTTCGACGAA
CTTCTTAATAACAGATTGGCCAGTTTTTCAAACGTACTTCAAATGAATTACTGGTCTGGCAGAGT
ATCCAGACTTCTTGGCGTGTGCCTTGTATTACTCCTGGCAGGTCTTTTATCTTTGGAGTAAAAGAGTC
TGCTTGGGTGAATAAATTTTTACAGCTATTAATATCCTGGTCTTCTCTTTGTCATGGTGGCTGGGTTT
GTGAAAGGAAATGTGGCTAACTGGAAGTACAGTGAAGAGTTTCTCAAAAATATATCAGCAAGTGCCAGAG
AACCACCTTCTGAGAACGGAACAAGCATCTACGGGGCTGGCGGCTTTATGCCCTATGGCTTTACAGGGAC
GTTGGCTGGTGTGCAACGTGCTTTTATGCCTTTGTGGGCTTTGACTGCATTGCAACAACGGGTGAAGAG
GTTCCGAAATCCGCAAAAGGCGATCCCATCGGAATAGTGACGTCCTTACTTGTCTGCTTTATGGCTTACT
TTGGGGTTTCTGCAGCTTAAACGCTTATGATGCCTTACTACCTCCTGGATGAGAAAAGTCCACTCCCGGT
CGCGTTTGGATATGTCAGATGGAGCCCCGCCAAATATGTTGTCTCGGCAGGCTCCCTCTGCGCCTTATCA
ACAAGTCTTCTGGTCTATGTTCCCTTACCCCGAATTCTGTTGCCATGGCCCGGATGGCTTACTGT
TTAGATTTCTTGAAGAGTGAGTAAGAGGCAGTCACCCGTTGCTGCCACGATGACTGCAGGGGTCATTTT
TGCTGTGATGGCCTTTCTTTTACCTGAAGGCCCTCGTGGACATGATGTCTATTGGCACCTCATGGCC
TACTCTCTGGTGGCAGCCTGTGTCTTATTCTCAGGTACCAACCTGGCTTGTGTTATGACCAGCCCAAAT
ACACCCCTGAGAAAGAACTCTGGAATCATGTACCAATGCGACTTTGAAGAGCGAGTCCCAGGTCACCAT
GCTGCAAGGACAGGGTTTACGCTACGAACCCTTTCAGCCCCTCTGCCCTGCCACACGACAGTCCGGCT
TCCCTTGTGAGCTTTCTGGTGGGATTCTGGCTTCTCATCCTGGGCTTGAATTTCTAACACGTATG
GCGTCCAGGCCATTGCCAGACTGGAAGCCTGGAGCCTGGCTCTTCTCGCCCTGTTCTTGTCTCTGCGT
TGCCGTCATTCTGACCATTTGGAGGCAGCCACAGAATCAGCAAAAAGTAGCCTTCATGGTCCCGTTCTTA
CCGTTTCTGCCGCTTACAGCATCCTGGTCAACATTTACTTGATGGTCCAGTTAAGTGGGACACTTGGGA
TCAGATTCAGCATCTGGATGGCGCTTGGCTTTCTGATCTACTTCGCTATGGCATTAGACACAGCTTGGGA
GGTAACCCAGGGATGAAGAAGACGATGAGGATGCCTTTTACAGCAACATCAATGCAGCAACAGAAGAA
AAGTCCGCCATGCAAGCAATGACCATACCAAAGAACTCAGCTTACCTTTCATACTTTCATGAAAAGA
CAAGTGAATGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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

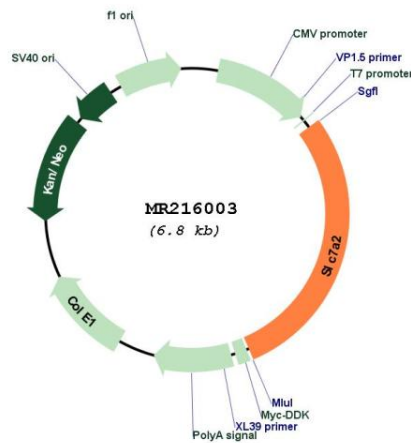
UniProt ID: [P18581](#)

Cytogenetics: 8 23.89 cM

MW: 72.3 kDa

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]

Product images:



Circular map for MR216003