

Product datasheet for **MC219943**

Slc7a4 (NM_144852) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc7a4 (NM_144852) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc7a4
Synonyms:	AI853530
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219943 representing NM_144852
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCCGGGACTGCCAGTACTGCCTGTTTGGCAGCCTTCTGCCAGAACTGAACCGTCTGAAGCCAC
 TGGAAAGAGTCTAGCATGGAGACATCACTGCGGCGCTGCCTGTCCACACTGGACTTACTCTACTGGGTGT
 GGGTGGCATGGTGGGATCTGGGCTCTATGTGCTCACAGGCACAGTGGCCAAGGACATGGCTGGCCCCGCT
 GTGCTCTGTCTCTTTTGGTGGCCGCTGTAGCCTCCCTGCTGGCGGCCCTATGCTATGCAGAGTTTGGAG
 CCCGTGTGCCCGTACTGGCTCAGCATACTATTACGTACGTGTCCATGGGGGAGATATGGGCATTCTCT
 CATAGGCTGGAATGTGCTTCTAGAATACCTCATTGGAGGTGCCGCTGTAGCCCGTGCCTGGAGTGGCTAT
 TTGGATGCCATCTTTAACACAGCATTGCAACTTCACGGAGTCTCACCTGGCGCTGGCAGGTGCCCT
 TCCTAGCTCACTATCCAGATTTTCTGGCCGCTGGCATTACTCTGTGGCTTCTGCCTTTGTCTCCTGCGG
 AGCCCCGAGTCTCCTCCTGGCTTAATCACACGTTCTCAGCCATCAGTCTGATTGTGATCCTCTTCATCATT
 GTCTGGGTTTCACTCTGGCCCGTCTCACAACCTGGAGTGCAGAAGAAGGTGGTTTCGCACCCCTCGGCT
 TCTCTGGCATCCTGGCTGGCACAGCCACCTGTTTCTATGCCTTCGTGGGATTTGATGTTATTGTGCCTC
 CAGTGAGGAGGCCAAAACCCACGGTGGGCGGTGCCATGGCCATCGCCATCTCCCTCAGCCTGGCAGCT
 GGTGCCTATATTCTGGTCTCCACTGTGTTAACCCCTCATGGTACCTTGGCAGCCCTAGACCCTGACTCGG
 CGCTTGTGTAGCTTTCTACAGGCGGGTTACAGCTGGGCTGGCTTCATTGTGGCAGTTGGCTCTATCTG
 TGCCATGAACACCGTCTGCTCAGCAACCTTTCTCCCTGCCGCGATTGTCTACGCCATGGCTGCCGAT
 GGGCTCTTCTCCAGGTGTTGCCCGTGTACACCCCGGACACAGGTGCCTGTGGTAGGAATCCTGGTGT
 TTGGGTCCTCATGGCCCTCCTGGCACTGCTGCTGGACCTTGGGCACTGGTCCAGTTCTATCCATCGG
 CACCCTGCTGGCCTATACCTTTGTAGCCACCAGCATCATTGTGCTGCGTTTCCAAAAAGCTTCTCCACCC
 AGCTCCCTTGCCTAGCCAGCCCTGGCCCCACAGCTAAGAAATATGACTCCTTTTCGGACCATATACAGC
 TAGTGGGTGCTGAGCAGACCTCAATGTCTGAGCCTGGGCACTGCGGCCAGCCCTGAAGCCCTTCTGGG
 CTTCTGGATGGATGCAGCCCTGGAACCGCCGTGGCCTGGGCGCTTGGCATCTTGGTAGCCTCGGCTATC
 TCTCTGGCGTGTGTGCTGGTCTTCGGAACTCAGACCTGCACCTCCACAGTGGGCTATGTCTTGTCTGC
 TGGTCATCAGTGGTGTGCTTTTCTGTCCAGCCTCCTGGTCTGGGGCTCATCAGCAGCAAAGAAGCA
 AGACACTTCCAGATCCCTTTGGTGGCCCTGACTCCAGCCCTGAGCATCCTTCTCAACACTTGCCTCATG
 CTGAAGCTGAGCTACCTGACCTGGCTACGCTTTATCTTCTGGCTGCTGGTGGGACTTGTCTGTATTTTG
 GCTATGGCATCTGGCACAGCAAGGAGAACCAGAGGGAGCCATTGGAGCTGACTACAGCAGCACTACGTGGT
 ATTCCCCAGCGGTAGCCTGGAGGAACTGTGCAAGCTGTGCAGCCCTCTAGTCAATCACCAGTCCGGGAG
 TCAGGTTGTA**CTGAGTAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_144852
- Insert Size:** 1908 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_144852.3](#), [NP_659101.2](#)

RefSeq Size: 3231 bp

RefSeq ORF: 1908 bp

Locus ID: 224022

UniProt ID: [Q8BLQ7](#)

Cytogenetics: 16 A3

Gene Summary: Involved in the transport of the cationic amino acids (arginine, lysine and ornithine).
[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR and has multiple coding region differences, compared to variant 1. These differences cause translation initiation at a downstream AUG and result in an isoform (2) with a shorter N-terminus, compared to isoform 1.