

Product datasheet for **MC219098**

Slc43a1 (NM_024497) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Slc43a1
Synonyms:	2610016F07Rik; AA986141; Lat3; PB39; Povl; R00504
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF: >MC219098 representing NM_024497
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCTCCACGCTGAAGCAGGCGTACCGCAGGCGCTGGTGGATGGCTGCACCGCTGTGGTGGAGAACC
 TCTTCTTCTCCGCGGTGCTCCTGGGCTGGGCTCCCTGCTGATCATGCTCAAGAAGGAAGGCTTCTATT
 CAGCCTGTGCCAGCTGAGAACAGGACCAATACCACCAAGATGAACAGCATCAGTGGACAAGCTGTGAC
 CAGCAGGAAAAGATGCTCAACCTGGGTTTACCATTTGGCTCCTTCTGCTGAGTGTACCACTGCCTC
 TGGGAATTCATGGACCGCTTTGGGCCAGGCTCTTCGACTGGTGGCAGTGCCTGCTTTGCCGCATC
 CTGCACCTCTAATGGCCTTGGCCTCCAGGGACACTGAAGTTTTGTCTCCATTGATATTCTGGCACTGTCC
 TTGAATGGATTGTGGCATCTGCTTAACGTTTACCTCACTCACGCTGCCAACATGTTTGGGAATTTGC
 GATCCACTTTCATGGCCCTCATGATTGGCTCCTATGCGTCTTCTGCCATCACGTTCCCTGGAATCAAGCT
 GATCTACGATGCCGGAGTCCCCTTCACTGTCATCATGTTACATGGTCTGGCCTGGCCTGTCTCATCTTT
 TTGAATGTGCTCTCAACTGGCCTGCAGAAGCCTTTCCTGCCCTGAGGAAGTTGACTACACGAAGAAGA
 TCAAACCTATTGGGTTAGCCTTGGACCACAAGGTACAGGTGACCGCTTCTACACCATGTAACCATTTGT
 GGGTCAGCGGTGAGTCAGAAGTCCCCAGCCTGGAGGAGGGCGTGACGCCTTTATTTATCCCCGGAT
 ATCCCTGGTACCTCAGAGGAGACTCCTGAAAAGTCTGTCCCTTTTCGAAGAGCCTCTGCTCCCCATTT
 TCCTGTGGAGCCTTGTACCATGGGCATGACCCAGCTTCGGGTCACTTCTATATGGGTGCTATGAACAA
 GATCCTGGAGTTTATTGTGACTGGTGGCAAGGAACGTGAGACAAATGAGCAGAGACAGAAGGTGGAGGAG
 ACAGTTGAGTTCTACTCTTCCATCTTTGGAGTCATGCAGCTGTTGTGCTTCTCACCTGCCCTCATTG
 GCTACATCATGGACTGGCGCATCAAGGACTGTGTGGATGCTCAACGGAGGGCACCTGAATGAGAATGC
 TTCCTTTGGAGATGCCAGAGATGGGGCTAGCACCAAGTTCACTAGACCACGCTACCGCAAGGTACAAAAG
 CTCACCAATGCCATCAATGCCTTACCCTGACCAACATCCTGCTTGTGGGTTTCGGCATCGCTGCCTCA
 TCAAGAACTACACCTGCAGTTGTGGCCTTTGTCTGCATACCATAGTTCGCGGTTTCTTCCACTCAGC
 CTGTGGAGGTCTCTACGCTGCTGTGTTCCCGTCCAATCATTTTGGGACACTGACAGGTCTTCACTCTCTC
 ATCAGTGGCGTGTGCTCTGCTGCAACAGCTACTTTCATGGCCATGGTGGGACCCCTGCATGGAGATC
 CTTTCTGGGTGAACCTGGGCTCCTACTTCTCTGTTCTGTTGGGATTTCTCTACCTTCTACCTCTACTA
 CTACCGGTCTCGCTGCAGAGAGATGCCACCAATTTGGTAGACCCACAGAAGGTGCTCAATACTTCG
 AAGGTGGCTACA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_024497

Insert Size: 1695 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_024497.1, NP_078773.1</u>
RefSeq Size:	2437 bp
RefSeq ORF:	1695 bp
Locus ID:	72401
UniProt ID:	<u>Q8BSM7</u>
Cytogenetics:	2 D
Gene Summary:	Sodium-independent, high affinity transport of large neutral amino acids. Has narrower substrate selectivity compared to SLC7A5 and SLC7A8 and mainly transports branched-chain amino acids and phenylalanine (By similarity).[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 from a downstream ATG and an isoform (2) with a shorter N-terminus, compared to isoform 1.