

Product datasheet for **MC219619**

Slc6a18 (NM_001168646) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc6a18 (NM_001168646) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc6a18
Synonyms:	B0AT3; D630001K16Rik; Xt2; Xtrp2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219619 representing NM_001168646
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCACAGGCCCTCAGGGATGGACCCGCTTGTGGACATTGAGGATGAAAGACCCAAGTGGGACAACAAC
 TCCAGTACCTCCTGAGCTGCATCGGTTTTGCTGTGGGGCTGGGGAACATATGGAGTTCCCTACCTGTG
 CCAGACCCACGGAGGAGGGCCCTTCTCATCCCTATTTTCATTGCCCTGGTCTTTGAGGGTATCCCGCTT
 TTCTACATCGAGCTTGCCATTGGCCAGCGCCTACGGAGGGGAAGCATTGGAGTGTGAAGACCATCTCCC
 CTTACCTCGGTGGCGTAGGCCTGGGCTGCTTCTCAGTGTCTTCTGGTCACTTTGACTACAACACGGT
 TCTCTGTGGGTCTTATGGTTCTTCTCAACTCCTTCCAACACCCGCTGCCCTGGAGCACATGTCCGCTG
 GATCTCAACAGAACAGGATTTGTGCAGGAATGCCAGAGCAGTGGCACCGTGGAGTACTTCTGGTACCGGC
 AGACTCTGAATATCACATCTGACATCAGCAACACAGGCACTATCCAATGGAAGCTGTTCTCTGCCTGGT
 GGCTGTGGTCAACTGTGTACCTGTGTGTGCATCAGAGGCATTGAGAGCACGGGGAAGGTGATCTACTTT
 ACAGCCTTATCCCTTACCTGGTCTAACCATCTTCTCATCAGAGGTCTTACCCTGCCTGGAGCAACAG
 AGGGCCTGATCTACCTGTTTACTCCCAATATGAAGACTCTTACAGAAATCCACGGGTGTGGTTGGATGCAGC
 CACCCAGATTTTCTTCTCCCTGTCCCTGGCCTTTGGAGGGCATATTGCTTTTGCAAGCTACAACCCACCC
 AGGAACAATTGTGAGAAGGACCGCGTATTATTGCCCTGGTCAACAGCATGACCTCCCTGTATGCATCCA
 TCGCCATCTTCTCCGTATGGGGTTCAAGGCATCCAATGACTATGGAAGGTGCCTGGACAGAAATATCTT
 GAGCCTCATCAATGAGTTTGACCTTCCAGAGCTTAGCATCTCCAGGGATGAGTACCCATCTGTCTCATG
 TACCTGAATGCCACTCAGACTGCGAGGGTGGCCCAACTCCCTGAAGACCTGCCATCTGGAAGATTTTC
 TGGATAAGAGTGCCTCGGGCCAGGCCTGGCCTTCATCGTTTTTACAGAAAGCTGTCTGCACATGCCAGG
 TGCTTCTGTGTGGTCTGTGCTCTTCTTTGGGATGCTGTTTACCCTGGGTCTGTCCATGTTTGGGAAC
 ATGGAGGGTGTCAATTACACCACTATTGGACATGGGGATCTTACCCAAAGGTATACCCAAGGAGGTATGA
 CTGCCATTTGCTTCACTGCAGTCTGGAGGCTACTGGTTGGAGATCTTTGACAGTTTTGACGTTCTCT
 GAATTTAATCATCTTCCCTTCAAGGAGTGGTGGGAGTCATTACATTTATGGGATGAAACGGTTCTGT
 GATGACATTGAATGGATGACTGGGCGGCGCCCGCCTACTGGCAGGTGACATGGAGGGTTGTGAGCC
 CTATGCTGCTGTTTGAATCTTCTGTCTACATTGTCTTCTGATCCAGACACCCGCCAGTTACAAGGC
 CTGGAACCCCAATATGAACATTTCCCTCAAGAGAGGAGAAGTCTACCCAGGCTGGGTGCAGGTCAAC
 TGTGTGCTCCTGTCTTCTGCCCTCACTGTGGGTCCCTGGAGTTGCTCTGGCTCAGTTACTGTCCAGT
 ACAACAGAGGTGGAAGGCTACGCATCTGAAAGTGGTCTGAAGCTACAGGAGAGCAGAGGCTGC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001168646
- Insert Size:** 1818 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_001168646.1](#), [NP_001162117.1](#)

RefSeq Size: 4284 bp

RefSeq ORF: 1818 bp

Locus ID: 22598

UniProt ID: [O88576](#)

Cytogenetics: 13 40.13 cM

Gene Summary: Functions as a sodium and chloride-dependent neutral amino acid transporter in kidneys (PubMed:26240152, PubMed:19478081). Required CLTRN for cell surface expression and for its amino acid transporter activity (PubMed:26240152).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (6) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 6), compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.