

## Product datasheet for **MC218271**

### **Slc6a18 (NM\_001168643) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc6a18 (NM_001168643) 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:** >NM\_001168643.1  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCACAGGCCCTCAGGGATGGACCCGCTTGTGGACATTGAGGATGAAAGACCCAAGTGGGACAACAAC  
 TCCAGTACCTCCTGAGCTGCATCGGTTTTGCTGTGGGGCTGGGAACATATGGAGGTTCCCTACCTGTG  
 CCAGACCCACGGAGGAGGGCCCTTCTCATCCCTATTTTCATTGCCCTGGTCTTTGAGGGTATCCCGCTT  
 TTCTACATCGAGCTTGCCATTGGCCAGCGCCTACGGAGGGGAAGCATTGGAGTGTGGAAGACCATCTCC  
 CTTACCTCGGTGGCGTAGGCCTGGGCTGCTTCTCAGTGCCTTCTGGTCAAGTTGTTACTACAACACGGT  
 TCTCTGTGGGTCTTATGGTCTTCTCAACTCCTTCCAACACCCGCTGCCCTGGAGCACATGTCCGCTG  
 GATCTCAACAGAACAGGATTTGTGCAGGAATGCCAGAGCAGTGGCACCGTGAAGTACTTCTGGTACCGGC  
 AGACTCTGAATATCACATCTGACATCAGCAACACAGGCACTATCCAATGGAAGCTGTTCTCTGCCTGGT  
 GGCTGCTGGTCAACTGTGTACCTGTGTGTCATCAGAGGCATTGAGAGCACGGGGAAGGTGATCTACTTT  
 ACAGCCTTATCCCTTACCTGGTCTAACCATCTTCTCATCAGAGGTCTTACCCTGCCTGGAGCAACAG  
 AGGGCCTGATCTACCTGTTTACTCCCAATATGAAGACTCTTACAGAAATCCACGGGTGTGGTTGGATGCAGC  
 CACCCAGATTTTCTTCTCCCTGTCCCTGGCCTTTGGAGGGCATATTGCTTTTGCAAGCTACAACCCACCC  
 AGGAACAATTGTGAGAAGGACGCCGTGATTATTGCCCTGGTCAACAGCATGACCTCCCTGTATGCATCCA  
 TCGCCATCTTCTCCGTATGGGGTTCAAGGCATCCAATGACTATGGAAGTGCCTGGACAGAAATATCTT  
 GAGCCTCATCAATGAGTTTGACCTTCCAGAGCTTAGCATCTCCAGGGATGAGTACCCATCTGTCTCATG  
 TACCTGAATGCCACTCAGACTGCGAGGGTGGCCCAACTTCCCTGAAGACCTGCCATCTGGAAGATTTTC  
 TGGATAAGAGTGCCTCGGGCCAGGCCTGGCCTTTCATCGTTTTTACAGAAAGCTGTCTGCACATGCCAGG  
 TGCTTCTGTGTGGTCTGTGCTCTTCTTTGGGATGCTGTTTACCCTGGGTCTGTCCCTCCATGTTTGGGAA  
 ATGGAGGGTGTGATTACACCACTATTGGACATGGGGATCTTACCCAAAGGTATACCCAAGGAGGTATGA  
 CTGCCATTTGCTTCACTGAGTCTGGAGGCTACTGGTTGGAGATCTTTGACAGTTTTGCAGTCTCTCT  
 GAATTTAATCATCTTCCCTTCAAGGAGTGGTGGGAGTCATTACATTTATGGGATGAAACGGAACATT  
 TTCCCTCAAGAGAGGAGAAGTTTACCCAGGCTGGGTGCAGGTACCTGTGTGCTCTGTCTTCTGCTGCC  
 CTCACTGTGGTCCCTGGAGTTGCTCTGGCTCAGTTACTGTCCAGTACAACAGAGGTGGAAGGCTACG  
 CATCTGGAAGTGGTCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001168643

**Insert Size:** 1629 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\\_001168643.1](#), [NP\\_001162114.1](#)

**RefSeq Size:** 4121 bp

**RefSeq ORF:** 1629 bp

**Locus ID:** 22598

**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 (3) has multiple differences in the coding region, compared to variant 1, one of which results in a translational frameshift. The encoded isoform (3) is shorter and has a distinct C-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.