

## Product datasheet for **MR218243**

### **Slc6a18 (NM\_001040692) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc6a18 (NM_001040692) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc6a18
Synonyms:	B0AT3; D630001K16Rik; Xt2; Xtrp2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR218243 representing NM\_001040692  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCACAGGCCTCAGGGATGGACCCGCTTGTGGACATTGAGGATGAAAGACCCAAGTGGGACAACAAC  
 TCCAGTACCTCCTGAGCTGCATCGGTTTTGCTGTGGGGCTGGGGAACATATGGAGGTTCCCTACCTGTG  
 CCAGACCACGGAGGAGGGCCCTTCTCATCCCTATTTTCATTGCCCTGGTCTTTGAGGGTATCCCGCTT  
 TTCTACATCGAGCTTGCCATTGGCCAGCGCCTACGGAGGGGAAGCATTGGAGTGTGAAGACCATCTCCC  
 CTTACCTCGGTGGCGTAGGCCTGGGCTGCTTCTCAGTGTCTTCTGGTCAGTTTGTACTACAACACGGT  
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 GATCTCAACAGAACAGGATTTGTGCAGGAATGCCAGAGCAGTGGCACCGTGGAGTACTTCTGGTACCGGC  
 AGACTCTGAATATCACATCTGACATCAGCAACACAGGCACTATCCAATGGAAGCTGTTCTCTGCCTGGT  
 GGCTGTGGTCAACTGTGTACCTGTGTGTCATCAGAGGCATTGAGAGCACGGGGAAGGTGATCTACTTT  
 ACAGCCTTATCCCTTACCTGGTCTAACCATCTTCTCATCAGAGGTCTTACCCTGCCTGGAGCAACAG  
 AGGGCCTGATCTACCTGTTTACTCCCAATATGAAGACTCTTACAGAAATCCACGGGTGTGGTTGGATGCAGC  
 CACCCAGATTTTCTTCTCCCTGTCCCTGGCCTTTGGAGGGCATATTGCTTTTGCAAGCTACAACCCACCC  
 AGGAACAATTGTGAGAAGGACCGCGTATTATTGCCCTGGTCAACAGCATGACCTCCCTGTATGCATCCA  
 TCGCCATCTTCTCCGTATGGGGTTCAAGGCATCCAATGACTATGGAAGTGCCTGGACAGAAATATCTT  
 GAGCCTCATCAATGAGTTGACCTTCCAGAGCTTAGCATCTCCAGGGATGAGTACCCATCTGTCTCATG  
 TACCTGAATGCCACTCAGACTGCGAGGGTGGCCCAACTCCCCTGAAGACCTGCCATCTGGAAGATTTTC  
 TGGATAAGAGTGCCTCGGGCCAGGCCTGGCCTTCATCGTTTTTACAGAAAGCTGTCTGCATGCCAGG  
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 GGAGATCTTTGACAGTTTGCAGCTTCTCTGAATTTAATCATCTTCGCTTATGGAAGTGGTGGGAGTC  
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 AAGTTCTACCCAGGCTGGGTGCAGGTACCTGTGTGCTCTGTCTTCTGCCCTACTGTGGTCCCTG  
 GAGTTGCTCTGGCTCAGTTACTGTCCAGTACAACAGAGGTGGAAGGCTACGCATCTGGAAGTGGTCT  
 GAAGCTACAGGAGCAGAGGCTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

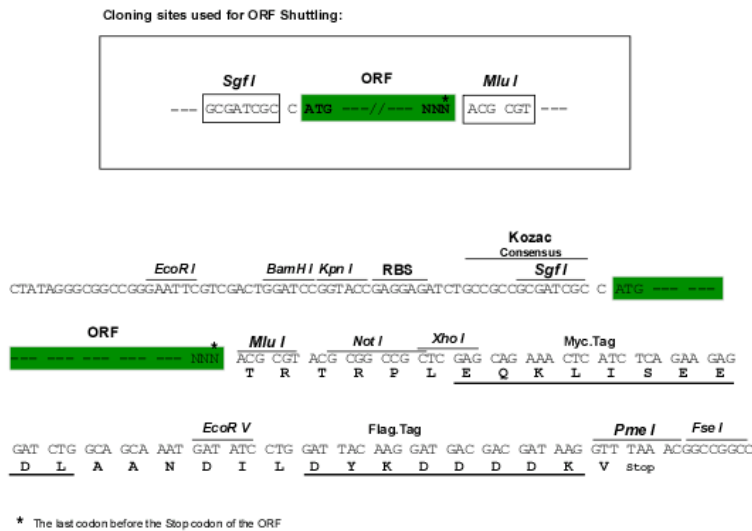
**Protein Sequence:**

>MR218243 representing NM\_001040692  
 Red=Cloning site Green=Tags(s)

MAQASGMDPLVDIEDERPKWDNKLQYLLSCIGFAVGLGNIWRFPYLQTHGGGAFLIPYFIALVFEGIPL  
 FYIELAIGQRLRRGSIGVWKTISPYLGGVGLGCFSVSFLVSLYYNTVLLWVWFFLNSFQHPLPWSTCPL  
 DLNRTGFVQECQSSGTVSYFWYRQTLNITSDISNTGTIQWKLFLCLVACWSTVYLCVIRGIESTGKVIYF  
 TALFPYLVLTIFLIRGLTLPGATEGLIYLFNPMKTLQNPVWLDAAATQIFFSLSLAFGGHIAFASYNPP  
 RNNCEKDAVIAALVNSMSTLYASIAIFSVMGFKASNDYGRCLDRNILSLINEFDLPELSISRDEYPSVLM  
 YLNATQATARVAQLPLKTHLEDFLDKSASGPGLAFIVFTEAVLHMPGASVSVLFFGMLFTLGLSSMFGN  
 MEGVITPLLDMGILPKGIPKEVMTGVICFACFLSAICFTLQSGGYWLEIFDSFAASLNLIIFAFMEVVG  
 IHYGMKRFCDDEIEMTGRPPGLYWQVTRVSPMLLFGIFLSYIVLLIQTPPSYKAWNPQYEHFSPREE  
 KFYPGWVQVTCVLLSFLPSLVWPGVALAQLLSQYKQRWKATHLESGLKLQESRGC

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9028\\_h10.zip](https://cdn.origene.com/chromatograms/mm9028_h10.zip)  
 Restriction Sites: SgfI-MluI  
 Cloning Scheme:



ACCN: NM\_001040692

ORF Size: 1845 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

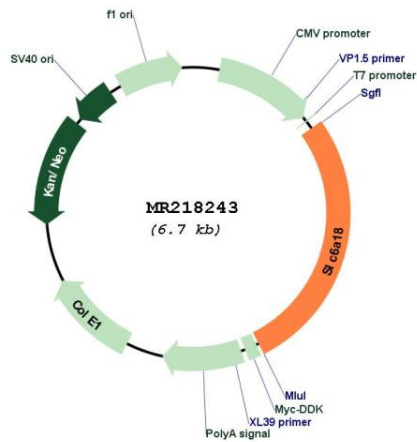
RefSeq: [NM\\_001040692.3](#), [NP\\_001035782.1](#)

RefSeq Size: 4314 bp

RefSeq ORF: 1848 bp

**Locus ID:** 22598  
**UniProt ID:** [O88576](#)  
**Cytogenetics:** 13 40.13 cM  
**MW:** 69.7 kDa  
**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]

**Product images:**



Circular map for MR218243