

Product datasheet for **MR218259**

Slc6a18 (NM_001168646) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc6a18 (NM_001168646) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR218259 representing NM_001168646
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCACAGGCCTCAGGGATGGACCCGCTTGTGGACATTGAGGATGAAAGACCCAAGTGGGACAACAAC
 TCCAGTACCTCCTGAGCTGCATCGGTTTTGCTGTGGGGCTGGGGAACATATGGAGGTTCCCTACCTGTG
 CCAGACCCACGGAGGAGGGCCCTTCTCATCCCTATTTTCATTGCCCTGGTCTTTGAGGGTATCCCGCTT
 TTCTACATCGAGCTTGCCATTGGCCAGCGCCTACGGAGGGGAAGCATTGGAGTGTGAAGACCATCTCCC
 CTTACCTCGGTGGCGTAGGCCTGGGCTGCTTCTCAGTGTCTTCTGGTCACTTTGACTACAACACGGT
 TCTCTGTGGGTCTTATGGTCTTCTCAACTCCTTCCAACACCCGCTGCCCTGGAGCACATGTCCGCTG
 GATCTCAACAGAACAGGATTTGTGCAGGAATGCCAGAGCAGTGGCACCGTGGAGTACTTCTGGTACCGGC
 AGACTCTGAATATCACATCTGACATCAGCAACACAGGCACTATCCAATGGAAGCTGTTCTCTGCCTGGT
 GGCTGTGGTCAACTGTGTACCTGTGTGTGCATCAGAGGCATTGAGAGCACGGGGAAGGTGATCTACTTT
 ACAGCCTTATCCCTTACCTGGTCTAACCATCTTCTCATCAGAGGTCTTACCCTGCCTGGAGCAACAG
 AGGGCCTGATCTACCTGTTTACTCCCAATATGAAGACTCTTACAGAAATCCACGGGTGTGGTTGGATGCAGC
 CACCCAGATTTTCTTCTCCCTGTCCCTGGCCTTTGGAGGGCATATTGCTTTTGCAAGCTACAACCCACCC
 AGGAACAATTGTGAGAAGGACCGCGTATTATTGCCCTGGTCAACAGCATGACCTCCCTGTATGCATCCA
 TCGCCATCTTCTCCGTATGGGGTTCAAGGCATCCAATGACTATGGAAGTGCCTGGACAGAAATATCTT
 GAGCCTCATCAATGAGTTGACCTTCCAGAGCTTAGCATCTCCAGGGATGAGTACCCATCTGTCCCTCATG
 TACCTGAATGCCACTCAGACTGCGAGGGTGGCCCAACTCCCCTGAAGACCTGCCATCTGGAAGATTTTC
 TGGATAAGAGTGCCTCGGGCCAGGCCTGGCCTTTCATCGTTTTTACAGAAAGCTGTCTGCATGCCAGG
 TGCTTCTGTGTGGTCTGTGCTCTTCTTTGGGATGCTGTTTACCCTGGGTCTGTCCCTCATGTTTGGGAAC
 ATGGAGGGTGTGATTACACCACTATTGGACATGGGGATCTTACCCAAAGGTATACCCAAGGAGGTATGA
 CTGCCATTTGCTTCACTGCAGTCTGGAGGCTACTGGTTGGAGATCTTTGACAGTTTTGACGTTCTCT
 GAATTTAATCATCTTCCGCTTATGGAAGTGGTGGGAGTCATTACATTTATGGGATGAAACGGTTCTGT
 GATGACATTGAATGGATGACTGGGCGGCGCCCGCCTACTGGCAGGTGACATGGAGGGTTGTGAGCC
 CTATGCTGCTGTTTGAATCTTCTGTCTACATTGTCTTCTGATCCAGACACCCAGTACAAGGC
 CTGGAACCCCAATATGAACATTTCCCTCAAGAGAGGAGAAGTCTACCCAGGCTGGGTGCAGGTACCC
 TGTGTGCTCCTGTCTTCTGCCCTCACTGTGGGTCCCTGGAGTTGCTCTGGCTCAGTACTGTCCAGT
 ACAACAGAGGTGGAAGGCTACGCATCTGGAAGTGGTCTGAAGCTACAGGAGAGCAGAGGCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218259 representing NM_001168646
 Red=Cloning site Green=Tags(s)

MAQASGMDPLVDIEDERPKWDNKLQYLLSCIGFVGLGNIWRFPYLCQTHGGGAFLIPYFIALVFEGIPL
 FYIELAIGQRLRRGSIGVWKTISPYLGGVGLGCFSVSFLVSLYNTVLLWVWFLNSFQHPLPWSTCPL
 DLNRTGFVQEQSSGTVSYFWYRQTLNITSDISNTGTIQWKLFLCLVACWSTVYLCVIRGIESTGKVIYF
 TALFPYLVLTIFLIRGLTLPGATEGLIYLFPTNMKTLQNPRVWLDAAQTIFFSLSLAFGGHIAFASYNPP
 RNNCEKDAVIAALVNSMTSLYASIAIFSVMGFKASNDYGRCLDRNLSLINFDLPELSISRDEYPSVLM
 YLNATQATARVAQLPLKTHLEDFLDKSASGPGAFIVFTEAVLHMPGASVWSVLFPGMLFTLGLSSMFGN
 MEGVITPLLDMGILPKGIPKEVMTAICFTLQSGGYWLEIFDSFAASLNLIIIFAFMEVVGVIIHIYGMKRFC
 DDIEWMTGRRPGLYWQVTRVSPMLLFGIFLSYIVLLIQTPPSYKAWNPQYEHFPSREEKFYPGWVQVT
 CVLLSFLPSLWPGVALAQLLSQYKQRWKATHLESGLKQESRGC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

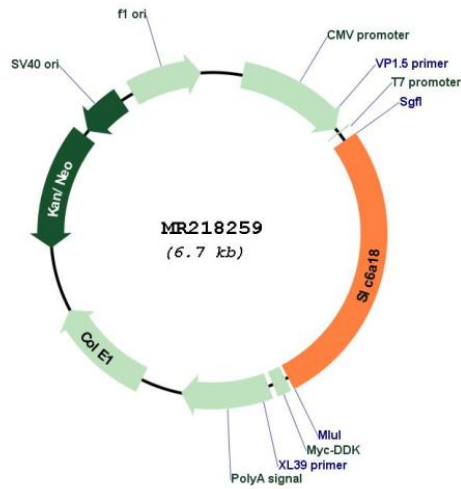
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001168646

ORF Size: 1815 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:	<ol style="list-style-type: none">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
MW:	68.6 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]