

Product datasheet for **MR209057**

Slc6a18 (NM_001136087) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc6a18 (NM_001136087) 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:

>MR209057 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCACAGGCCCTCAGGGATGGACCCGCTTGTGGACATTGAGGATGAAAGACCCAAGTGGGACAACAAC
 TCCAGTACCTCCTGAGCTGCATCGGTTTTGCTGTGGGGCTGGGAACATATGGAGGTTCCCTACCTGTG
 CCAGACCCACGGAGGAGGGCCCTTCTCATCCCTATTTTCATTGCCCTGGTCTTTGAGGGTATCCCGCTT
 TTCTACATCGAGCTTGCCATTGGCCAGCGCCTACGGAGGGGAAGCATTGGAGTGTGGAAGACCATCTCCC
 CTTACCTCGGTGGCGTAGGCCTGGGCTGCTTCTCAGTGTCTTCTGGTCACTTGTACTACAACACGGT
 TCTCCTGTGGGTCTTATGGTTCTTCTCAACTCCTTCCAACACCCGCTGCCCTGGAGCACATGTCCGCTG
 GATCTCAACAGAACAGGATTTGTGCAGGAATGCCAGAGCAGTGGCACCGTGAAGTACTTCTGGTACCGGC
 AGACTCTGAATATCACATCTGACATCAGCAACACAGGCACTATCCAATGGAAGCTGTTCTCTGCCTGGT
 GGCTGCTGGTCAACTGTGTACCTGTGTGCATCAGAGGCATTGAGAGCACGGGGAAGGTGATCTACTTT
 ACAGCCTTATCCCTTACCTGGTCTAACCATCTTCTCATCAGAGGTCTTACCTGCCTGGAGCAACAG
 AGGGCCTGATCTACCTGTTTACTCCCAATATGAAGACTCTTCAAGATCCACGGGTGTGGTTGGATGCAGC
 CACCCAGATTTTCTTCTCCCTGTCCCTGGCCTTTGGAGGGCATATTGCTTTTGCAAGCTACAACCCACCC
 AGGAACAATTGTGAGAAGGACCGCGTATTATTGCCCTGGTCAACAGCATGACCTCCCTGTATGCATCCA
 TCGCCATCTTCTCCGTATGGGTTCAAGGCATCCAATGACTATGGAAGGTGCCTGGACAGAAATATCTT
 GAGCCTCATCAATGAGTTGACCTTCCAGAGCTTAGCATCTCCAGGGATGAGTACCCATCTGTCTCATG
 TACCTGAATGCCACTCAGACTGCGAGGGTGGCCCAACTCCCTGAAGACCTGCCATCTGGAAGATTTTC
 TGGATAAGCCACCTGGAAGCAGATCTCCGGGCCCGTGTCTTGGAGAAGGCTGTGCCAGGCTGACTTC
 TAGAGTCTGTGAAGCCTCAGTGTCTCCAGGGGTGATCTGCTTTGCCTGTTTCTCTCAGCCATTTGCTTC
 ACACTGCAGTCTGGAGGCTACTGTTGGAGATCTTTGACAGTTTTGCAGTCTCTGAATTAATCATCT
 TCGCCTTCATGGAAGTGGTGGGAGTCATTACATTTATGGGATGAAACGGTTCTGTGATGACATTGAATG
 GATGACTGGGCGGCGCCCGCCTACTGGCAGGTGACATGGAGGGTGTGAGCCCTATGCTGCTGTTT
 GGAATCTTCTGTCTACATTGTCTTCTGATCCAGACACCGCCAGTTACAAGGCTGGAACCCCAAT
 ATGAACATTTTCCCTCAAGAGAGGAGAAGTTCTACCCAGGCTGGGTGCAGGTACCTGTGTGCTCCTGTC
 CTTCTGCCCTCACTGTGGTCCCTGGAGTTGCTCTGGCTCAGTACTGTCCAGTACAACAGAGGTGG
 AAGGCTACGCATCTGAAAGTGGTCTGAAGCTACAGGAGAGCAGAGGCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209057 protein sequence
 Red=Cloning site Green=Tags(s)

MAQASGMDPLVDIEDERPKWLNKLYLLSCIGFAVGLGNIWRFYPYLCQTHGGGAFLIPYFIALVFEGIPL
 FYIELAIGQRLRRGSIGVWKTISPYLGGVGLGCFSVSFLVSLYNTVLLWLVFFLNSFQHPLPWSTCPL
 DLNRTGFVQEQSSGTVSYFWYRQTLNITSDISNTGTIQWKLFLCLVACWSTVYLCVIRGIESTGKVIYF
 TALFPYLVLTIFLIRGLTLPGATEGLIYLFNPMKTLQNPVWLDAAQTIFFSLSLAFGGHIAFASYNPP
 RNNCEKDAVIAALVNSMTSLYASIAIFSVMGFKASNDYGRCLDRNILSLINEFDLPELSISRDEYPSVLM
 YLNATQTARVAQLPLKTCHLEDFLDKPTWKQISGARVLGEGCARLTSRVCEASVLPGVICFACFLSAICF
 TLQSGGYWLEIFDSFAASLNLIIFAFMEVVGVIHIYGMKRFCDDEIEMMTGRRPGLYWQVTRVVSPLLFF
 GIFLSYIVLLIQTPPSYKAWNPQYEHFPSREEKFYPGWVQVTCVLLSFLPSLVWPGVALAQLLSQYKQRW
 KATHLESGLKLQESRGC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001136087

ORF Size: 1734 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_001136087.2](#), [NP_001129559.1](#)

RefSeq Size: 4200 bp

RefSeq ORF: 1734 bp

Locus ID: 22598

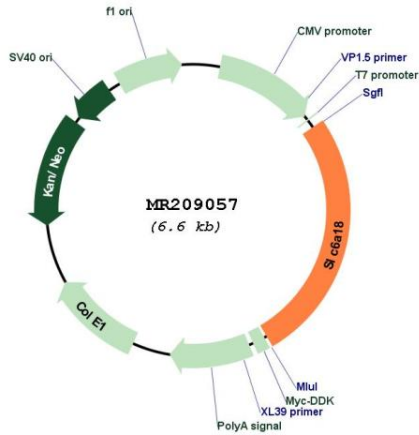
UniProt ID: [O88576](#)

Cytogenetics: 13 40.13 cM

MW: 65.3 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 MR209057