

Product datasheet for **MG218243**

Slc6a18 (NM_001040692) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc6a18 (NM_001040692) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc6a18
Synonyms:	B0AT3; D630001K16Rik; Xt2; Xtrp2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218243 representing NM_001040692
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCACAGGCCTCAGGGATGGACCCGCTTGTGGACATTGAGGATGAAAGACCCAAGTGGGACAACAAC
 TCCAGTACCTCCTGAGCTGCATCGGTTTTGCTGTGGGGCTGGGGAACATATGGAGGTTCCCTACCTGTG
 CCAGACCCACGGAGGAGGGCCCTTCTCATCCCTATTTTCATTGCCCTGGTCTTTGAGGGTATCCCCTT
 TTCTACATCGAGCTTGCCATTGGCCAGCGCCTACGGAGGGGAAGCATTGGAGTGTGGAAGACCATCTCCC
 CTTACCTCGGTGGCGTAGGCCTGGGCTGCTTCTCAGTGTCTTCTGGTCACTTTGACTACAACACGGT
 TCTCTGTGGGTCTTATGGTCTTCTCAACTCCTTCCAACACCCGCTGCCCTGGAGCACATGTCCGCTG
 GATCTCAACAGAACAGGATTTGTGCAGGAATGCCAGAGCAGTGGCACCGTGGAGTACTTCTGGTACCGGC
 AGACTCTGAATATCACATCTGACATCAGCAACACAGGCACTATCCAATGGAAGCTGTTCTCTGCCTGGT
 GGCTGTGGTCAACTGTGTACCTGTGTGTCATCAGAGGCATTGAGAGCACGGGGAAGGTGATCTACTTT
 ACAGCCTTATCCCTTACCTGGTCTAACCATCTTCTCATCAGAGGTCTTACCCTGCCTGGAGCAACAG
 AGGGCCTGATCTACCTGTTTACTCCCAATATGAAGACTCTTACAGAAATCCACGGGTGTGGTTGGATGCAGC
 CACCCAGATTTTCTTCTCCCTGTCCCTGGCCTTTGGAGGGCATATTGCTTTTGCAAGCTACAACCCACCC
 AGGAACAATTGTGAGAAGGACCGCGTATTATTGCCCTGGTCAACAGCATGACCTCCCTGTATGCATCCA
 TCGCCATCTTCTCCGTATGGGTTCAAGGCATCCAATGACTATGGAAGTGCCTGGACAGAAATATCTT
 GAGCCTCATCAATGAGTTGACCTTCCAGAGCTTAGCATCTCCAGGGATGAGTACCCATCTGTCTCATG
 TACCTGAATGCCACTCAGACTGCGAGGGTGGCCCAACTCCCCTGAAGACCTGCCATCTGGAAGATTTTC
 TGGATAAGAGTGCCTCGGGCCAGGCCTGGCCTTCATCGTTTTTACAGAAAGCTGTCTGCATGCCAGG
 TGCTTCTGTGTGGTCTGTGCTCTTCTTTGGGATGCTGTTTACCCTGGGTCTGCTCCATGTTTGGGAAC
 ATGGAGGGTGTGATTACACCACTATTGGACATGGGGATCTTACCCAAAGGTATACCCAAGGAGGTATGA
 CTGGGGTGTGCTTTGCTCTTCTCTCAGCCATTTGCTTACACTGCAGTCTGGAGGCTACTGGTT
 GGAGATCTTTGACAGTTTGCAGCTTCTCTGAATTTAATCATCTTCGCTTATGGAAGTGGTGGGAGTC
 ATTCACATTTATGGGATGAAACGGTCTGTGATGACATTGAATGGATGACTGGGCGCGGCCCGCCTCT
 ACTGGCAGGTGACATGGAGGTTGTGAGCCCTATGCTGCTGTTTGAATCTTCTGTCTTACATTGTCT
 TCTGATCCAGACACCGCCAGTTACAAGCCTGGAACCCCAATATGAACATTTTCCCTCAAGAGAGGAG
 AAGTTCTACCCAGGCTGGGTGCAGGTACCTGTGTGCTCTGCTTCTGCCCTACTGTGGTCCCTG
 GAGTTGCTCTGGCTCAGTTACTGTCCAGTACAACAGAGGTGGAAGGCTACGCATCTGGAAGTGGTCT
 GAAGCTACAGGAGCAGAGGCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218243 representing NM_001040692
 Red=Cloning site Green=Tags(s)

MAQASGMDPLVDIEDERPKWDNKLQYLLSCIGFAVGLGNIWRFPYLCQTHGGGAFLLIPYFIALVFEGIPL
 FYIELAIGQRLRRGSIGVWKTISPYLGGVGLGCFVSFVLSLYYNTVLLWVWFFLNSFQHPLPWSTCPL
 DLNRTGFVQEQSSGTVSYFWYRQTLNITSDISNTGTIQWKLFLCLVACWSTVYLCVIRGIESTGKVIYF
 TALFPYLVTIFLIRGLTLPGATEGLIYLFNPMKTLQNPVWLDAAQTFFSLSLAFGGHIAFASYNPP
 RNNCEKDAVIAALVNSMTSLYASIAIFSVMGFKASNDYGRCLDRNILSLINEFDLPELSISRDEYPSVLM
 YLNATQTARVAQLPLKTCHLEDFLDKSASGPGAFIVFTEAVLHMPGASVWSVLFGLFTLGLSSMFGN
 MEGVITPLLDMGILPKGIPKEVMTGVICFACFLSAICFTLQSGGYWLEIFDSFAASLNLIIIFAFMEVVG
 IHYGMKRFCDDEWMTGRRPGLYWQVTRVSPMLLFGIFLSYIVLLIQTPPSYKAWNPQYEHFPSREE
 KFYPGWVQVTCVLLSFLPSLWVPGVALAQLLSQYKQRWKATHLESGLKLQESRGC

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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_001040692.3 , NP_001035782.1
RefSeq Size:	4314 bp
RefSeq ORF:	1848 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]