

Product datasheet for **MC222289**

Slc4a11 (NM_001081162) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc4a11 (NM_001081162) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc4a11
Synonyms:	A1503023; BTR1; NaBC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222289 representing NM_001081162
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCACAGAATGAACACTGTCCAGGACTCCGGTGAATACTTCTCAGCCGGCACTCAGGGATACTTCAAGA
 ACAACATGGAGGATAACCTTGAAGTCCGGGAAGACAGCCTAGGGGATGAGGTCTTTGACACCGTCAACTC
 CTCCATTGTGTCTGGCGAGAGCATCCGGTTTTTTGTCAATGTCAACCTTGAAGTGCAGCCCTCCAATCT
 GACTTAGAAGCTGCAACGGGTGGCTGCGTGTCTTACACACCTCTCGCAAGTATCTGAAATTGAAGAAT
 TTGAGGAAGAGGTCCGTGCACACCGGGACCTGGATGGCTTCTGGCCCAGGCCAGCATCATCCTGAATGA
 GACAGTACCTCACTGGATGATGTCTCCGAATATGCTAAACCGCTTTGCCCTGGACCTAACCACGCA
 GAACCTGACTGTGACCTGGACCTGCTCATGGCTAAGCTCTTTACAGATGCTGGAGCCCTATGGAGAGCA
 AGGTCCACCTGCTGTGAGATACCATCCAGGGAGTCACTGCCACTGTCCGAGGGGTGCAGTACGAGCAGTC
 TTGGCTCTGCATCATCTGTACCATGAAGACCCTACAGAAACGGCATGTGTGCATCAGCCGCTGGTTCGA
 CCACAGAACTGGGGGAGAACTCCTGTGAGGTTGCTTTGTATCCTGGTGTGGCCCCACCCAAGATGA
 AAAGCACCAAGACTGCAATGGAGGTGGCACGCACCTTTGCCACCATGTTCTCAGACATCACCTTCCGCCA
 GAAGTCTCTGAAGACTCGCACAGAGGAAGAATCAAGGAGGCTCTGGTGCATCAGAGACAGCTGCTCACC
 ATGATGATGCCAAGAGCCGAGGGCACAGCATGAGTCCCTCCATACTCACAGACACCCTCAGCCCCCGA
 AATGCAAGGACTTTTTCCCTTTTGGAAAGGGCATCTGGATGGATATCATGCGCAGGTTTCTGTGTACCC
 AATGGACTTCACTGATGGCATCATTGGGAAAAGCAAGAGCGTGGGCAAATATGTCACCACCACACTCTTC
 CTCTACTTCGCTGCCTCCTACCGACCATTTGCTTTGGATCCCTCAACGATGAGAACAACAACGGGGCCA
 TCGATGTGCAGAAGACCATAGCTGGACAGAGCATCGGAGGCCTTTGTATGCATGTTCTGGGACAGC
 CCTGGTACTGTTGACAACCCGACCCCTGGCCATCTACACCCAGGTGATTGAGTCACTGTGTGATGAC
 TACAATCTGGACTTCAACGCCTTCTATGCATGGACGGCCTGTGGAACAGTTTCTTCTTGCATTTATG
 CCTTCTCAACCTCAGCCTGCTTATGAATCTCTTTAAGAGGTCTACAGAGGAAATCATTGCTGTTCAT
 TTCCATCACGTTTGTGCTGGATGCTGTCAAGGGCATGGTCAAAATCTTCGGGAAGTACTACTATGGTCAC
 CACTACCACACAAAAGGACTTCTCCTTGGTGAAGCCTGTTGGCATTGGCAGAAGCCCCAACAGCAGTC
 TCCACTGCATCAACGCCAGCCTCTGGCCAGCCCCGTAGAGATGGCCACAACCAGCAGCCCCGGCAG
 CACACTCGGGCCAGGCTACAGCGGTGCTCAGCCTCCTCATCATGTTGGGCACACTCTGGCTAGGCTAC
 ACCCTTACCAGTTCAAGAAAAGCCCTACCTGCACCCATGTGTGCGTGAGACCTGTCTGACTGTGCC
 TGCCCCATCGCCGTGCTCTCCTTCTCCCTCATCGGCTCCTATGGCTTCCAGGAAATGAGATGAGCAAGTT
 CCGGTATAACCCAGCGAGAGCCTTTTTGAGGTGGCACAGATCCACTCTCTGTCTTCAAGGCCATCGGC
 AGTGCCATGGGTCTTGGTTTCTGCTCTCCTTGTCTTTCTTATTGAGCAGAACCTGGTGGCGGCCCTGG
 TCAATGCACCAGAGAACAGGCTGGTGAAGGGCACTGCCTATCACTGGGATCTCCTGCTACTTGCCATCAT
 CAATACGGGGCTGTCTGTGTTGGGCTACCCTGGATCCACGCCGCTATCCCCACTCCCCTCTGCATGTG
 CGGGCACTGGCCTTAGTGGAGGAACCGTGGAGAATGGGCACATTTATGAAACGATTGTGGATGTTAAGG
 AGACTCGGCTGACGGCGCTGGTGCCAGTGTCTGGTGGGCTGTCTTGTGCTGCTGCCATTCCTCT
 GCAGTGGATCCCCAAGCCTGTGCTGTATGGGCTTTTGTACATTGCACTGACCTCCCTGGACGGCAAC
 CAGCTTCTCGCGTGTGGCCCTGCTGCTCAAGGAGCAGACATCATACCCACCCACACTACATCCGGA
 GAGTGCCCCAAAGGAAGATCCACTACTTACAGGCCTGCAGATCCTGCAGCTGCTACTGCTGTGCCTT
 CGGCATGAGCTCCCTGCCCTACATGAAGATGGTCTTTCCCTCATCATGATTGCCATGATTCCAATCCGC
 TACAATCTGCTACCCGAATCATTGAGGCCAAGTACTTGGATGTCATGGATGCTGAGCATAGGCC**TGA**

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-RsrII
ACCN: NM_001081162
Insert Size: 2589 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:	<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_001081162.1 , NP_001074631.1
RefSeq Size:	3201 bp
RefSeq ORF:	2589 bp
Locus ID:	269356
UniProt ID:	A2AJN7
Cytogenetics:	2 F1
Gene Summary:	Transporter which plays an important role in sodium-mediated fluid transport in different organs. Prevents severe morphological changes of the cornea caused by increased sodium chloride concentrations in the stroma. In the inner ear, is involved in transport of potassium through the fibrocyte layer to the stria vascularis and is essential for the generation of the endocochlear potential but not for regulation of potassium concentrations in the endolymph. In the kidney, is essential for urinary concentration, mediates a sodium flux into the thin descending limb of Henle loop to allow countercurrent multiplication by osmotic equilibration. Involved in borate homeostasis. In the absence of borate, it functions as a Na(+) and OH(-)(H(+)) channel. In the presence of borate functions as an electrogenic Na(+) coupled borate cotransporter.[UniProtKB/Swiss-Prot Function]