

Product datasheet for **MG222092**

Slc4a11 (NM_001081162) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc4a11 (NM_001081162) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc4a11
Synonyms:	AI503023; BTR1; NaBC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222092 representing NM_001081162
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCACAGAATGAACACTGTCAGGACTCCGGTGAATACTTCTCAGCCGGCACTCAGGGATACTTCAAGA
 ACAACATGGAGGATAACCTTGAAGTCCGGGAAGACAGCCTAGGGGATGAGGTCTTTGACACCGTCAACTC
 CTCCATTGTGTCTGGCGAGAGCATCCGGTTTTTTGTCAATGTCAACCTTGAAGTGACGCCCTCCAATCT
 GACTTAGAAGCTGCAACGGGTGGCTGCGTCTTACACACCTCTCGCAAGTATCTGAAATTGAAGAACT
 TTGAGGAAGAGGTCCGTGCACACCGGGACTGGATGGCTTCTGGCCCAGGCCAGCATCATCTGAATGA
 GACAGCTACCTACTGGATGATGTCCTCCGAACATGCTAAACCGCTTTGCCCTGGACCTAACCCACGCA
 GAACCTGACTGTGACCTGGACCTGCTCATGGCTAAGCTCTTACAGATGCTGGAGCCCTATGGAGAGCA
 AGGTCCACCTGCTGTGATACCATCCAGGGAGTCACTGCCACTGTCGAGGGGTGCAGTACGAGCAGTC
 TTGGCTCTGCATCATCTGTACCATGAAGACCCTACAGAAACGGCATGTGTGCATCAGCCGCTGGTTT
 CGA
 CCACAGAACTGGGGGAGAACTCCTGTGAGGTTGCTTTGTATCCTGGTCTGGCCCCACCAAGATGA
 AAAGCACCAAGACTGCAATGGAGGTGGCAGCACCTTTGCCACCATGTTCTCAGACATCACCTTCGGCCA
 GAAGTCTCTGAAGACTCGCACAGAGGAAGAATCAAGGAGGCTCTGGTGCATCAGAGACAGCTGCTCACC
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 AATGCAAGGACTTTTTCCCTTTTGGAAAGGGCATCTGGATGGATATCATGCGCAGGTTTCTGTGTACCC
 AATGGACTTCACTGATGGCATCATTGGGAAAAGCAAGAGCGTGGGCAAAATATGTCACCACCACACTTTC
 CTCTACTTCGCTGCCTCCTACCGACATTGCTTTTGGATCCCTCAACGATGAGAACAACAAACGGGGCCA
 TCGATGTGCAGAAAGACCATAGCTGGACAGAGCATCGGAGGCCTCTGTATGCATGTTCTCTGGCAGCC
 CCTGGTGATACTGTTGACAACCGCACCCCTGGCCATCTACACCCAGGTGATTTCGAGTCATCTGTGATGAC
 TACAATCTGGACTTCAACGCCTTCTATGCATGGACGGCCTGTGGAACAGTTTCTTCTTGCACCTTATG
 CCTTCTCAACCTCAGCCTGCTTATGAATCTCTTAAAGAGGCTACAGAGGAAATCATTGCTCTGTTT
 TCCATCACGTTTGTGCTGGATGCTGTCAAGGGCATGGTCAAAATCTTCGGGAAGTACTACTATGGT
 CACTACCACACAAAAAGGACTTCTCCTTGGTGGCCTGTTGGCATTGGCAGAAGCCCCAACAGCAGTC
 TCCACTGCCTCAACGCCAGCCTCTTGGCCAGCCCCGTAGAGATGGCCACAACCAGCAGCCCCGGCAG
 CACACTCGGGCCAGGCTACAGCGGTGCTCAGCCTCCTCATCATGTTGGGCACACTCTGGCTAGGCTAC
 ACCCTCTACCAGTTCAAGAAAAGCCCTACCTGCACCCATGTGTGCGTGAGACCCTGTCTGACTGTGCC
 TGCCCATCGCCGTGCTCTCCTTCTCCCTCATCGGCTCCTATGGCTTCCAGGAAATTGAGATGAGCAAGTT
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 AGTGCCATGGGTCTTGGTTTCTGCTCTCCTTGTCTTTCTTATTGAGCAGAACCCTGGTGGCGGCCCTGG
 TCAATGCACCAGAGAACAGGCTGGTGAAGGGCACTGCCTATCACTGGGATCTCCTGCTACTTGCCATCAT
 CAATACGGGGCTGTCTCTGTTTGGGCTACCCTGGATCCACGCCGCTATCCCCACTCCCCCTGCTGATGTG
 CGGGCACTGGCCTTAGTGGAGGAACCGTGGAGAATGGGCACATTTATGAAACGATTGTGGATGTTAAGG
 AGACTCGGCTGACGGCGCTGGTGCCAGTGTCTGGTGGGCTGTCTTGTGCTGCTGCCATTCCTCT
 GCAGTGGATCCCCAAGCCTGTGCTGTATGGCTCTTCTGTACATTGCACTGACCTCCCTGGACGGCAAC
 CAGCTCTTCTCGGTGTGGCCCTGCTGCTCAAGGAGCAGACATCATACCCACCCACACTACATCCGGA
 GAGTGCCCAAAGGAAGATCCACTACTTACAGGCCTGCAGATCCTGCAGCTGCTACTGCTGTGCCTT
 CGGCATGAGCTCCCTGCCCTACATGAAGATGGTCTTCCCTCATCATGATTGCCATGATCCAATCCGC
 TACAATCTGTACCCGAATCATTGAGGCCAAGTACTGGATGTCATGGATGCTGAGCATAGGCC

AGCGGACCGACGCGTACGGCGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222092 representing NM_001081162
Red=Cloning site Green=Tags(s)

MSQNEHCQDSGEYFSAGTQGYFKNMEDNLEVREDSLGDEVFDTVNSSIIVSGESIRFFVNVNLEVQPSKS
DLEAATGGCVLLHTSRKYLKLNFEVEVRAHRDLDFLAQASIILNETATSLDDVLRMLNRFALDPNHA
EPDCDLDLLMAKLFDTAGAPMESKVHLLSDTIQGVATVRGVQYEQSWLCIICMKTQKRHVCIISRLVR
PQNWGENSCEVRFVILVLAPPKMKSTKTAMEVARTFATMFSDITFRQKLLKTRTEEEFKEALVHQRQLLT
MMMPRAAGHSMSLHTRHPQPPKCKDFPFPGKIWMDIMRRFPVYPMDFDGIIGKSKSVGKYVTTTLF
LYFACLLPTIAFGSLNDENTNGAIDVQKTIAGQSIGLLYALFSGOPLVILLTTAPLAIYTQVIRVICDD
YNLDFNAFYAWTGLWNSFFLALYAFLNLSLLMNLFKRSTEEIIALFISITFVLDAVKGMVKIFGKYYYGH
HYHTKRTSSLVSLLGIGRSPNSSLHTALNASLLASPVEMATTSSPGSTHSGQATAVLSLLIMLGTWLGY
TLYQFKKSPYLHPCVRETLSDCALPIAVLSFSLIGSYGFQEIEMSKFRYNPSESLFEVAQIHSLSFKAIG
SAMGLGFLLSLLFFIEQNLVAALVNAPENRLVKGTAYHWDLLLLAIINTGLSLFGLPWIHAAYPHSPLHV
RALALVEERVENGHYIETIVDVKETRLTALGASVLVGLSLLLLPFPLQWIPKPVLYGLFLYIALTSLDGN
QLFSRVALLLKEQTSYPPTHYIRRVQPKIHYFTGLQILQLLLLCAFGMSLSPYMKMVFPLIMIAMIPIR
YNLLPRIIEAKYLDVMDAHRP

SGPTRRRLE - GFP Tag - V

Restriction Sites: Sgfl-RsrII

ACCN:	NM_001081162
ORF Size:	2586 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_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]