

## Product datasheet for MR211603

### Slc38a10 (NM\_001164800) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc38a10 (NM_001164800) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc38a10
Synonyms:	1810073N04Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211603 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACGGCCGCTCCACCTCCAAGTGGGGGCTGATCACGAACGTGGTGAACAGCATCGTGGGCGTCAGCG  
TGCTCACCATGCCTTTCTGCTTCAAGCAGTGTGGCATTGTCTGGGGGCCCTGCTCCTGGTCTTCTGCTC  
CTGGATGACACACCAGTCTTGCATGTTCTTGGTGAAGTCGGCCAGCCTGAGCAAGAGGAGGACCTATGCT  
GGCCTGGCGTTCCACGCCTACGGCAAGGCCGGAAGATGCTGGTGGAGACCAGCATGATTGGGCTGATGC  
TGGGATCTGCATTACCTTCTATGTCGTGATCGGTGACTTGGGGTCCAATTCTTTGCTCCGCTGCTTGG  
ATTACAGGTGACCAGGACTGTCCGTGTGTTCTGCTCTTCGCAAGTGTCCCTGTTCAATTGTGCTCCCGCTC  
AGCCTGCAGAGAAACATGATGGCCTCTATCCAGTCTTCAAGTGCATGGCGCTCCTCTTCTACACCGTCT  
TCATGTTGCTGATTGTGCTGTCCCTCCCTAAACATGGCCTCTTTAGTGGGCAAGTGGTGGCAGAGTTCAG  
CTACATTCGCTGGGAAGGTGTTTTCCGCTGTGTCCCATCTTTGGCATGTCTTTGCCTGTGAGTCCAG  
GTCCTGCCACCTATGACAGCCTGGACGAGCCATCAGTGAAGACCATGAGCTCCATCTTTGCCTCCTCCC  
TCAACGTGGTCAACCGCTTCTATGTCATGGTGGGGTTTTTGGTTACGTGAGTCTCACTGATGCCACCAC  
AGGCAATGTGCTGATCCACTTCCCCTCCAACCCGGTGCAGAGATGATCCGAGTGGGCTTCGTGATGCT  
GTGGCTGTGGGCTTCCCATGATGATTCTGCCGTGCAGGCAGCCTTGAACACACTGCTGTTTGGCAGC  
AGCAAAAAGATGGAACCTTTGCTGCAGGAGGCTACATGCCCCACTCCGGTTTTAAAGTCCCTACCCTCTC  
GGTGGTGTGGAAACATGGTGGTGGGGTTCATGATCCCCAATGTGGAACCATCCTTGGCTTACAGGA  
GCAACGATGGGAGCCTCATCTGCTTTATCTGCCCGGCTCTGATCTATAAGAAAGCCACAGAATGCC  
CCTCAGCCAGGTGGTCTGCTGGTTCGGCTGGGCATCCTCGTGGTCCAGCAGTCCAGCCCTCTCTGT  
GACCGAAGAAGCTCCTCTGGACTTGACGCAAGAAGCTCGCAGCGGCCACCGAGGAGATGCTGAGGGCGCA  
ATGAAGGTGGAGGAGCTCGGCTATCAGTCCAGGATCCCGTTGTAGTTGTTGCTGAGGATAGCCAAGAGA  
AGCTAAAGCCAGCAGAGGACAAAGAGGTACTGGAGCAGGCCAGATCAAGGGTCTGTAGATGTGCCTGG  
CGGGGAAGCTCCAAGGAGAAGCAGGAAGCCGCACAGCTGGATCGCCCCGCCAAGTATTGCTGTCCCT



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ATGGGTGAGGCCCATCGCCATGAGCCTCCCATCCCTCATGATAAAGTGGTGGTGAAGGCCAGGACC  
 AAGAAGGGCCAGAGGAGAAAAAGCCACCTCCCAGGCTCCCAGATGAAGGAGACCTGCAGGCAGGGGTCA  
 AGGGGCACCACCTCTGCCTGAGTCAGAGAAGGAGAAGCAGGAACCTGAGAGAGGAGGGAAAGAAAGAGA  
 CCCGGGCAAGTCTGGCAGTAGGAGAACTGAACATCCTCAGAAGGTTCCAGAAGCAAATGGCCAGCCAC  
 CTGTGCAGCCCAGGAAGGAAGATTCCAGGCCAGGAAATAGGGATCCGCAGCCAGCTGCCAGGCCAGGGA  
 CTCTGTGGAGCTGAAGGCTCTGGCAGCAGATGACGGCAGGGAGCCTGCACAGAAGGCTGGAGGCGCCCTG  
 TGGAAAGCCGTGGAGAGTGTCTGCTGAGAGCGATGCTGGTGGGAAGGCGGGCCCTCCCTGCAAAAGGCCG  
 AGGCTGCAGAGCAGAGGGAGAAGAAGGAGGCTGAGCAACAGGGTGGAGACCAGGCCGGGAGCAAGCTGGA  
 AGAAGCTGGGAGGGCAGAGATGCTGGACCATGCCGTGCTGCTACAGGTGATCCAAGAGCAGCAGGTGCAG  
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 CCCGTGCTGGAGCTCTAGGGTGCCTCCATCCCAAGACATGGGCCAGCACCTCCAGGGGAAG  
 TCAAGGTGCTGCCAGGCAGAGACCTTGTGACCTTCTGCTGGTGGCTCTGAAACAGAGCCCCAGGGGGC  
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 GGGGACTTGAAGCAGTGCAACAAGGCAGCCCTCTGAGGTACCAAGAGTCCAGAGAAGCAGGTTGCCA  
 AGGCAGTTGCCGGGCAGGCCAAGATGTCTTTGGTGAAGGCTCCGAAGAAAGAAAGAACTGGAAGGA  
 AGCAATGGCCCTGGTGTGATACTCAGAAAGAGGCTGTCCAGCCCTGGTAGGAGCAGAAGCTAAGGAC  
 ACAAAATCCAGGCAGTCGGGACCCACCAAGGCCCAAGTTCAGACCAAGCAAGTTTACCCAGAACCC  
 AGGCCATCTTTGACACAGGTGAGGTTCTACCCAGAGGTGAGAAGTGAAGCCCCGAGCGGTTACAT  
 ACCTCTGAGGAGCAGCACAAGGAAAAGGGGTGCCCCATCCAGGAGGCAAAGCAGAGACCAGATCCT  
 AACTCTGGGCCAAACTAGCTGTGCTGCGGGTCAGAAGCCAGAGAATGCCAAACCAACCGAGACTAA  
 AAGTGCAGGCTGGCTGACCTGCGGAGGAGCGGGGATCTGGCCTCATCCAGAGCAGGAGCTGGC  
 TCCAAAGGATGGCGTCATCATTAGCTTTAACTCCCTCCCTAATGTTAGGTGAACGACCTCCGAGTGT  
 CTGGACACCCAGCTCCGCCAGGCTGCAGGGGCTGCGTTGCAAGTGGTACACAGCCGACAGATTAACAGT  
 TGTCTGGAGATCTGGAGGAAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR211603 protein sequence  
 Red=Cloning site Green=Tags(s)

MTAASTSKWGLITNVVNSIVGVSVLTMPCFKQCIGIVLGALLLVFCSWMTHQSCMFLVKSASLSKRRTYA  
 GLAFHAYGKAGKMLVETSMIGLMLGSCITFYVYVIGDLGSNFFAPLLGLQVTRTVRVFLLFAVSLFIVLPL  
 SLQRNMMASIQSFSAMALLFYTFVFMFVIVLSSLKHGLFSGQWLQVSYIRWEGVFRVPIFGMSFACQSQ  
 VLPTYDSLDEPSVKTMSIFASSLNVVTFYVMVGFYVVSFTDATTGNVLIHFPSNPVTEMIRVGFVMS  
 VAVGFPMILPCRQALNTLLFEQQQKDGTF AAGGYMPLRFKVLTL SVVFGTMVGGVMIPNVETILGFTG  
 ATMGSLICFICPALIYKKAHKNAPSAQVVLWVGLGILVVSTLTTL SVTEEAPLDLTQEARSGHRGDAEGA  
 MKVEAARLSVQDPVVVAEDSQEKLKPAEDKEVLEQAQIKGPVDVPGGEAPKEKQEEAQLDRPGQGTAVP  
 MGEAHRHEPPIPHDKVVVDEGDQEGPEEKKPPRLPDEGDPAGRGGAPPLPESEKEKQEPERGGEGKR  
 PGQVLA VGTEHPQKVPEANGQPPVQPRKEDSRPGRNDPQPAQARDSVELKALAADDGREPAQKAGGAL  
 WKPVEAAESDAGGKAGLPVQRPEAAEQREKKEAEQQGGDQAGSKLEEAGRAEMLDHAVLLQVIEQEQVQ  
 QKRLLDQEQKLLAVIEEQHKEIRQQRQEGEEDKPKPDVQPEPGVAVLRGQEEEAHAGETLGDPSQPLQ  
 PVLGAPRGRPAPSQDMGQHLPGEVKVL PGRDLADLPAGGSETEPQGAPIDLREDPKAAIKAAGAGKELVP  
 GDLEAVHKAAPPEVPKSPEKQVAVAGQRQDVFGESEERKETGKEAMAPGADTQKEAVQPLVGAEAKD  
 TKSRQSGPTKAPVQTQAKFHPEPQAI FDTGQGSHPVSEAPRAVHIPEEQHKGGAAIQEAKQRPDP  
 NSGPKLAVPAGQKPENAKPNRDLK VQAGSDLRRRRRDLASHPEQELAPKDGVIISFNLSL PNVQVNDL RSA  
 LDTQLRQAAGAALQVVHSRQIKQLSGDLEEA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001164800

ORF Size: 3246 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\\_001164800.1](#), [NP\\_001158272.1](#)

RefSeq Size: 4565 bp

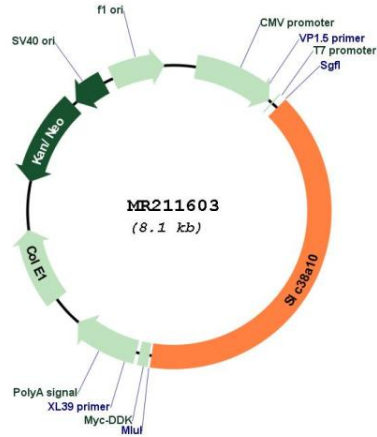
RefSeq ORF: 3246 bp

Locus ID: 72055

UniProt ID: [Q5I012](#)

Cytogenetics: 11 E2  
 MW: 116.3 kDa  
 Gene Summary: Putative sodium-dependent amino acid/proton antiporter.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR211603