

## Product datasheet for MR216116

### Slc38a10 (NM\_001164799) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Slc38a10 (NM\_001164799) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Slc38a10  
**Synonyms:** 1810073N04Rik  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR216116 representing NM\_001164799  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGACGGCCGCTCCACCTCCAAGTGGGGGCTGATCACGAACGTGGTGAACAGCATCGTGGGCGTCAGCG  
 TGCTCACCATGCCTTTCTGCTTCAAGCAGTGTGGCATTGTCTGGGGCCCTGCTCCTGGTCTTCTGCTC  
 CTGGATGACACACCAGTCTTGCATGTTCTTGGTGAAGTCGGCCAGCCTGAGCAAGAGGAGGACCTATGCT  
 GGCCTGGCGTTCCACGCCTACGGCAAGGCGGGAAGATGCTGGTGGAGACCAGCATGATTGGGCTGATGC  
 TGGGATCCTGCATTACCTTCTATGTCGTGATCGGTGACTTGGGGTCCAACCTCTTTGCTCCGCTGCTTGG  
 ATTACAGGTGACCAGGACTGTCCGTGTGTTCTGCTCTTCGCAGTGTCCCTGTTCAATTGTGCTCCCGCTC  
 AGCCTGCAGAGAAACATGATGGCCTCTATCCAGTCCTTCAAGTCCATGGCGCTCCTCTTCTACACCGTCT  
 TCATGTTGCTGATTGTGCTGTCCCTTAAACATGGCCTCTTTAGTGGCAGTGGCTGCGACAGGTCAG  
 CTACATTCGCTGGGAAGGTGTTTTCCGCTGTGTCCCATCTTTGGCATGTCCTTTGCCTGTCAGTCCCAG  
 GTCCTGCCACCTATGACAGCCTGGACGAGCCATCAGTGAAGACCATGAGCTCCATCTTTGCCTCCTCCC  
 TCAACGTGGTCACCGCCTTCTATGTCATGGTGGGTTTTTTGGTTACGTCAGTTCAGTATGCCACCAC  
 AGGCAATGTGCTGATCCACTTCCCTCCAACCCGGTGACAGAGATGATCCGAGTGGCTTCGTGATGCTCT  
 GTGGCTGTGGGCTTCCCATGATGATTCTGCCGTGCAGGCAGGCCTTGAACACACTGCTGTTTGAGCAGC  
 AGCAAAAAGATGGAACCTTTGCTGCAGGAGGCTACATGCCCCACTCCGGTTTTAAAGTCTCACCCTCTC  
 GGTGGTGTGGAAACATGGTTGGTGGGTCATGATCCCCAATGTGAAACCATCCTTGGCTTACAGGA  
 GCAACGATGGGGAGCCTCATCTGCTTTATCTGCCCGCTCTGATCTATAAGAAAGCCACAAGAATGCC  
 CCTCAGCCAGGTGGTGTCTGGTTCGGCTGGGCATCCTCGTGGTCAGCACACTCACCACCTCTCTGT  
 GACCGAAGAAGCTCCTCTGGACTTGACGCAAGAAGCTCGCAGCGCCACCAGGAGATGCTGAGGGCGCA  
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 CGGGAAGCTCCAAGGAGAAGCAGGAAGCCGCACAGCTGGATCGCCCGGCCAAGGATTGCTGTCCCT  
 ATGGGTGAGGCCATCGCCATGAGCCTCCCATCCCTCATGATAAAGTGGTGGTGAAGGCCAGGACC



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AAGAAGGCCAGAGGAGAAAAAGCCACCTCCCAGGCTCCCAGATGAAGGAGACCCTGCAGGCAGGGGTCA  
 AGGGGCACCACCTCTGCCTGAGTCAGAGAAGGAGAAGCAGGAACCTGAGAGAGGAGGGGAAGGAAAGAGA  
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 AGGCAGTTGCCGGGCAGCGCCAAGATGTCTTTGGTGAAGGCTCCGAAGAAAGGAAAGAACTGGAAGGA  
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 AACTCTGGGCCAAACTAGCTGTGCTGCGGGTCAAGCCAGAGAATGCCAAACCAACCGAGACCTAA  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR216116 representing NM\_001164799

Red=Cloning site Green=Tags(s)

MTAASTSKWGLITNVVNSIVGVSVLTMPFCFKQCGIVLGALLLVFCSWMTHQSCMFLVKSASLSKRRTYA  
 GLAFHAYGKAGKMLVETSMIGLMLGSCITFYVYVIGDLGSNFFAPLLGLQVTRTVRVFLFAVSLFIVLPL  
 SLQRNMMASIQSFSAMALLFYTFVFMFVIVLSSLKHGLFSGQWLRQVSYIRWEGVFRVPIFGMSFACQSQ  
 VLPTYDSLDEPSVKTMSIFASSLNVVTFYVMVGFYVVSFTDATTGNVLIHFPSNPVTEMIRVGFVMS  
 VAVGFPMILPCRQALNTLLFEQQQKDGTF AAGGYMPLRFKVLTL SVVFGTMVGGVMIPNVETILGFTG  
 ATMGSLICFICPALIYKKAHKNAPSAQVVLWVGLGILVVSTLTLSVTEEAPLDLTQEARSGHRGDAEGA  
 MKVEAARLSVQDPVVVVAEDSQEKLKPAEDKEVLEQAQIKGPVDVPGGEAPKEKQEAQALDRPGQGI AVP  
 MGEAHRHEPPIPHDKVVVDEGQDQEGPEEKPPPRLPDEGDPAGRQGGAPPLPESEKEKQEPERGGEGKR  
 PGQVLA VGETEHPQKVPEANGQPPVQPRKEDSRPGNRDPQAAQARDSVELKALAADDGREPAQKAGGAL  
 WKPVEAAESDAGGKAGLPVQRPEAAEQREKKEAEQQGGDQAGSKLEEAGRAEMLDHAVLLQVIQEQQVQ  
 QKRLLDQQEKLLAVIEEQHKEIRQQRQEGEEDKPKPDVQPEPGVAVLRGQEEAEHAGETLGDDPSQPLQ  
 PVLGAPRGRPAPSQDMGQHLPGEVKVL PGRDLADLPAGGSETEPQGAPIDLREDPKAAIKAAGAGKELVP  
 GDLEAVHKAAPPEVPKSPEKQVAKAVAGQRQDVFGESEERKETGKEAMAPGADTQKEAVQPLVGAEAKD  
 TKSRSQSGPTKAPVQTQAKFHPEPQAI FDTGGQSHPEVRSEAPRAVHIPPEEQHKGGAAIQEAKQRDPD  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

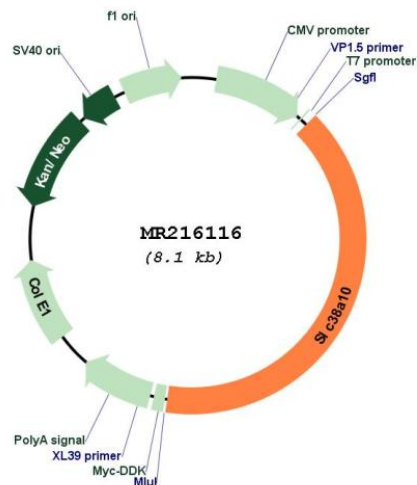
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001164799

ORF Size: 3243 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001164799.1, NP_001158271.1</u>
<b>RefSeq Size:</b>	4568 bp
<b>RefSeq ORF:</b>	3249 bp
<b>Locus ID:</b>	72055
<b>UniProt ID:</b>	<u>Q5I012</u>
<b>Cytogenetics:</b>	11 E2
<b>MW:</b>	116.8 kDa
<b>Gene Summary:</b>	Putative sodium-dependent amino acid/proton antiporter.[UniProtKB/Swiss-Prot Function]