

## Product datasheet for **MG216116**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Slc38a10 (NM\_001164799) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Slc38a10  
**Synonyms:** 1810073N04Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG216116 representing NM\_001164799  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACGGCCGCTCCACCTCCAAGTGGGGGCTGATCACGAACGTGGTGAACAGCATCGTGGGCGTCAGCG  
 TGCTCACCATGCCTTTCTGCTTCAAGCAGTGTGGCATTGTCTGGGGGCCCTGCTCCTGGTCTTCTGCTC  
 CTGGATGACACACCAGTCTTGCATGTTCTTGGTGAAGTCGGCCAGCCTGAGCAAGAGGAGGACCTATGCT  
 GGCCTGGCGTTCCACGCCTACGGCAAGGCCGGAAGATGCTGGTGGAGACCAGCATGATTGGGCTGATGC  
 TGGGATCTGCATTACCTTCTATGTCGTGATCGGTGACTTGGGGTCCAATTCTTTGCTCCGCTGCTTGG  
 ATTACAGGTGACCAGGACTGTCCGTGTGTTCTGCTCTTCGCAAGTGTCCCTGTTCAATTGTGCTCCCGCTC  
 AGCCTGCAGAGAAACATGATGGCCTCTATCCAGTCTTCAAGTGCATGGCGCTCCTCTTCTACACCGTCT  
 TCATGTTGCTGATTGTGCTGTCCCTCCCTAAACATGGCCTCTTTAGTGGGCAAGTGGTGGCAGAGGTCAG  
 CTACATTCGCTGGGAAGGTGTTTTCCGCTGTGTCCCATCTTTGGCATGTCTTTGCCTGTGAGTCCCGAG  
 GTCCTGCCACCTATGACAGCCTGGACGAGCCATCAGTGAAGACCATGAGCTCCATCTTTGCCTCCTCCC  
 TCAACGTGGTCAACCGCTTCTATGTCATGGTGGGGTTTTTGGTTACGTGAGTCTCACTGATGCCACCAC  
 AGGCAATGTGCTGATCCACTTCCCCTCCAACCCGGTACAGAGATGATCCGAGTGGGCTTCGTGATGCT  
 GTGGCTGTGGGCTTCCCCTGATGATTCTGCCGTGACAGGACCTTGAACACACTGCTGTTTGGCAGC  
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 GGTGGTGTGGAAACATGGTGGTGGGGTTCATGATCCCCAATGTGGAACCATCCTTGGCTTACAGGA  
 GCAACGATGGGAGCCTCATCTGCTTTATCTGCCCGGCTCTGATCTATAAGAAAGCCACAGAATGCC  
 CCTCAGCCAGGTGGTCTCTGGGTCGGCCTGGGCATCCTCGTGGTCAAGCACTCACCACCCTCTCTGT  
 GACCGAAGAAGCTCCTCTGGACTTGACGCAAGAAGCTCGCAGCGGCCACCGAGGAGATGCTGAGGGCGCA  
 ATGAAGGTGGAGGAGCTCGGCTATCAGTCCAGGATCCCGTTGTAGTTGTTGCTGAGGATAGCCAAGAGA  
 AGCTAAAGCCAGCAGAGGACAAAGAGGTACTGGAGCAGGCCAGATCAAGGGTCTGTAGATGTGCCTGG  
 CGGGGAAGCTCCAAGGAGAAGCAGGAAGCCGCACAGCTGGATCGCCCCGCCAAGGATTGCTGTCCCT



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ATGGGTGAGGCCCATCGCCATGAGCCTCCCATCCCTCATGATAAAAGTGGTGGTGAAGGCCAGGACC  
 AAGAAGGGCCAGAGGAGAAAAAGCCACCTCCCAGGCTCCCAGATGAAGGAGACCTGCAGGCAGGGGTCA  
 AGGGGCACCACCTCTGCCTGAGTCAGAGAAGGAGAAGCAGGAACCTGAGAGAGGAGGGGAAGGAAAGAGA  
 CCCGGCAAGTCTGGCAGTAGGAGAACTGAACATCCTCAGAAGGTTCCAGAAGCAAATGGCCAGCCAC  
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 GGGGACTTGAAGCAGTGCAACAAGGCAGCCCTCTGAGGTACCAAGAGTCCAGAGAAGCAGGTTGCCA  
 AGGCAGTTGCCGGGCAGGCCAAGATGTCTTTGGTGAAGGCTCCGAAGAAAGGAAAGAACTGGAAGGA  
 AGCAATGGCCCCTGGTGTGATACTCAGAAAGAGGCTGTCCAGCCCTTGGTAGGAGCAGAAGCTAAGGAC  
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 ACCTCTGAGGAGCAGCACAAGGAAAAGGGGTGCCCCATCCAGGAGGCAAAGCAGAGACCAGATCCT  
 AACTCTGGGCCAACTAGCTGTGCTGCGGGTCAAGGCCAGAGAATGCCAAACCAACCGAGACCTAA  
 AAGTGCAGGCTGGCTCTGACCTGCGGAGGAGCGGGGATCTGGCCTCTCATCCAGAGCCAGGAGCTGGC  
 TCCAAAGGATGGCGTCATCATTAGCTTTAACTCCCTCCCTAATGTTGAGGTGAACGACCTCCGAGTGT  
 CTGGACACCCAGCTCCGCCAGGCTGCAGGGGCTGCGTTGCAAGTGGTACACAGCCGACAGATTAACAGT  
 TGTCTGGAGATCTGGAGGAAGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG216116 representing NM\_001164799

Red=Cloning site Green=Tags(s)

MTAASTSKWGLITNVVNSIVGVSVLTMPCFKQCIVLGLALLVFCSWMTHQSCMFLVKSASLSKRRTYA  
 GLAFHAYGKAGKMLVETSMIGLMLGSCITFYVVIIGDLGSNFFAPLLGLQVTRTVRVFLFAVSLFIVLPL  
 SLQRNMMASIQSFSAMALLFYTVFMFVIVLSSLKHGLFSGQWLRQVSYIRWEGVFRVPIFGMSFACQSQ  
 VLPTYDSLDEPSVKTMSIFASSLNVVTAFYVMVGFYVVSFTDATTGNVLIHFPSNPVTEMIRVGFVMS  
 VAVGFPMILPCRQALNTLLFEQQQKDGTF AAGGYMPLRFKVLTL SVVFGTMVGGVMIPNVETILGFTG  
 ATMGSLICFICPALIYKKAHKNAPSAQVVLWVGLGILVVSTLTTL SVTEEAPLDLTQEARSGHRGDAEGA  
 MKVEAARLSVQDPVVVVAEDSQEKLKPAEDKEVLEQAQIKGPVDVPGGEAPKEKQEAQALDRPGQGI AVP  
 MGEAHRHEPPIPHDKVVVDEGQDQEGPEEKPPPRLPDEGDPAGRQGAPPLPESEKEKQEPERGGEGKR  
 PGQVLA VGETEHPQKVPEANGQPPVQPRKEDSRPGNRDPQAAQARDSVELKALAADDGREPAQKAGGAL  
 WKPVEAAESDAGGKAGLPVQRPEAAEQREKKEAEQQGGDQAGSKLEEAGRAEMLDHAVLLQVIQEQQVQ  
 QKRLLDQQEKLLAVIEEQHKEIRQQRQEGEEDKPKPDVQPEPGVAVLRGQEEEAHAGETLGDPPSQPLQ  
 PVLGAPRGRPAPSQDMQHLPGEVKVLPGRDLADLPAGGSETEPQGAPIDLREDPKAAIKAAGAGKELVP  
 GDLEAVHKAAPPEVPKSPEKQVAKAVAGQRQDVFGESEERKETGKEAMAPGADTQKEAVQPLVGAEAKD  
 TKSRSQSGPTKAPVQTQAKFHPEPQAI FDTGQGSHPVRSEAPRAVHIPPEEQHKGGAAIQEAKQRDPD  
 NSGPKLAVPAGQKPENAKPNRDLKVQAGSDLRRRRDLASHPEQELAPKDGVIISFNLSL PNVQVNDLRSA  
 LDTQLRQAAGAALQVVHSRQIKQLSGDLEEA

TRTRPLE – GFP Tag – V

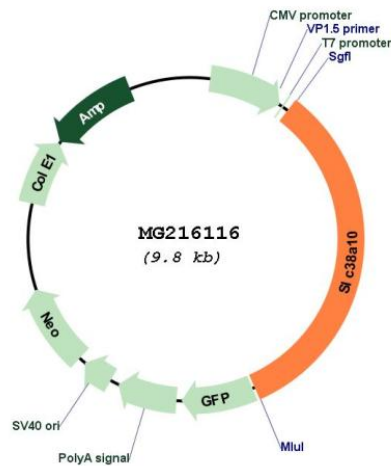
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001164799

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.

|                               |   |
|-------------------------------|---|
| <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>Gene Summary:</b>          | Putative sodium-dependent amino acid/proton antiporter.[UniProtKB/Swiss-Prot Function]  |