

## Product datasheet for **MG217681**

### Slc38a10 (NM\_001164801) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc38a10 (NM_001164801) 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:	>MG217681 representing NM_001164801 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACGGCCGCTCCACCTCCAAGTGGGGGCTGATCACGAACGTGGTGAACAGCATCGTGGGCGTCAGCG  
TGCTCACCATGCCTTTCTGCTTCAAGCAGTGTGGCATTGTCTGGGGGCCCTGCTCCTGGTCTTCTGCTC  
CTGGATGACACACCAGTCTTGCATGTTCTTGGTGAAGTCGGCCAGCCTGAGCAAGAGGAGGACCTATGCT  
GGCCTGGCGTTCCACGCCTACGGCAAGGCCGGAAGATGCTGGTGGAGACCAGCATGATTGGGCTGATGC  
TGGGATCTGCATTACCTTCTATGTCGTGATCGGTGACTTGGGGTCCAATTCTTTGCTCCGCTGCTTGG  
ATTACAGGTGACCAGGACTGTCCGTGTGTTCTGCTCTTTCGAGTGTCCCTGTTCAATTGTGCTCCCGCTC  
AGCCTGCAGAGAAACATGATGGCCTCTATCCAGTCTTCAAGTCCATGGCGCTCCTCTTCTACACCGTCT  
TCATGTTGCTGATTGTGCTGTCCCTCCCTAAACATGGCCTCTTTAGTGGGCAAGTGGTGGCAGAGTTCAG  
CTACATTGCTGGGAAGGTGTTTTCCGCTGTGTCCCATCTTTGGCATGTCTTTGCCTGTGAGTCCCGAG  
GTCCTGCCACCTATGACAGCCTGGACGAGCCATCAGTGAAGACCATGAGCTCCATCTTTGCCTCCTCCC  
TCAACGTGGTCAACCGCTTCTATGTCATGGTGGGGTTTTTGGTTACGTGAGTCTCACTGATGCCACCAC  
AGGCAATGTGCTGATCCACTTCCCCTCCAACCCGGTACAGAGATGATCCGAGTGGGCTTCGTGATGTCT  
GTGGCTGTGGGCTTCCCCTGATGATTCTGCCGTGACGAGCCTTGAACACACTGCTGTTTGGCAGC  
AGCAAAAAGATGGAACCTTTGCTGCAGGAGGCTACATGCCCCACTCCGGTTTTAAAGTCCCTACCCTCTC  
GGTGGTGTGGAAACATGGTGGTGGGTCATGATCCCCAATGTGAAACCATCCTTGGCTTACAGGA  
GCAACGATGGGAGCCTCATCTGCTTTATCTGCCGGCTCTGATCTATAAGAAAGCCACAGAATGCC  
CCTCAGCCAGGATCTAGAGTCACTGAGGAGACAACCCTCTGGACGTGGCTGCCTGGGCTTGGTATAT  
GGGAGGAGCCACTCTAACTACCGTCCCAGGCTGAGGTCCGGGCCAACCCAGAGAGGAATGAGTGGCAGA  
GCACCAGGTTTCATCTACTTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG217681 representing NM\_001164801  
 Red=Cloning site Green=Tags(s)

MTAASTSKWGLITNVVNSIVGVSVLTMPFCFKQCGIVLGALLLVFCSMWTHQSCMFLVKSASLSKRRTYA  
 GLAFHAYGKAGKMLVETSMIGMLGSCITFYVVIGDLGNSFFAPLLGLQVTRTVRVFLLFAVSLFIVLPL  
 SLQRNMMASIQSFAMALLFYTFVMFVIVLSSLKHGLFSGQWLRQVSYIRWEGVFRVPIFGMSFACQSQ  
 VLPTYDSLDEPSVKTMSSIFASSLNVVTAFYVMVGGFFGYVSFTDATTGNVLIHFPSNPVTEMIRVGFVMS  
 VAVGFPMMILPCRQALNTLLFEQQKDGTF AAGGYMPPLRFKVLTL SVVFGTMVGGVMIPNVETILGFTG  
 ATMGSLICFICPALIYKKAHKNAPSAQDLESCRRQPSGRGCLGLSDMGGATLTTVPGPVEVRANQRGMSGR  
 APGFISTC

TRTRPLE - GFP Tag - V

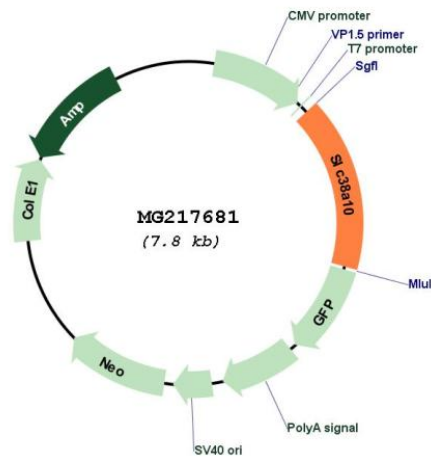
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001164801

<b>ORF Size:</b>	1284 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">NM_001164801.1</a> , <a href="#">NP_001158273.1</a>
<b>RefSeq Size:</b>	1952 bp
<b>RefSeq ORF:</b>	1287 bp
<b>Locus ID:</b>	72055
<b>UniProt ID:</b>	<a href="#">Q5I012</a>
<b>Cytogenetics:</b>	11 E2
<b>Gene Summary:</b>	Putative sodium-dependent amino acid/proton antiporter.[UniProtKB/Swiss-Prot Function]