

## Product datasheet for **MG226814**

### Slc10a2 (NM\_011388) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Slc10a2 (NM\_011388) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Slc10a2  
**Synonyms:** 9130221J18Rik; AI605518; ASBT; IBAT; ISBT  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG226814 representing NM\_011388  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGATAACTCCTCTGTCTGTCCCCAAATGCAACTGTCTGCGAAGGCGATTCTGCGTAGTACCTGAGA  
 GCAACTTCAATGCAATTCTCAATACAGTGATGAGCACTGTGCTCACCATCCTCTTAGCCATGGTGATGTT  
 TTCTATGGGGTGAATGTGGAAGTCCACAAGTTCCTAGGACATATAAAGAGACCATGGGGTATCTTCGTG  
 GGCTTCTCTGTCAGTTTGAATCATGCCTCTCACAGGCTTTATCCTGTCTGTGGCCTCTGGCATCCTTC  
 CTGTACAGGCTGTAGTGGTGCTAATTATGGGTTGCTGCCCTGGAGGAACGGCTCCAATATCCTGGCCTA  
 TTGGATAGATGGCGACATGGACCTCAGTGTTAGCATGACCACTTGTCCACACTGCTTGGCCTTGAATG  
 ATGCCTCTTTGCCTCTTCGTCTACACCAAGATGTGGGTTGACTCGGGAACGATTGTGATTCCTATGATA  
 GCATTGGTATTTCTGTGTTGCTCTTGTATTCCCTGTTTCCTTTGGAATGTTTGTAAATCACAAATGGCC  
 ACAAAAAGCGAAGATTATACTTAAAATGGATCCATCACAGGTGTAATTCTCATTGTGCTCATAGCTGTG  
 ATTGGAGGAATACTGTACCAAAGTGCCTGGATCATTGAACCCAACTGTGGATTATAGGAACAATATTCC  
 CTATAGCTGGCTACAGCCTGGGTTTCTTCTGGCTAGACTAGCTGGTCAACCCTGGTACAGGTGCCGAAC  
 AGTAGCCTTGAAACTGGAATGCAGAACACTCAGCTGTGCTCCACCATTGTACAGCTCTCCTTCTCCCC  
 GAGGATCTCAACCTGGTGTTCACCTTCCCACTCATCTATACTGTTTTCCAGCTCGTCTTTGCAGCAGTAA  
 TATTAGGAATTTATGTCACATACAGGAAATGTTATGGAAAAATGATGCTGAGTTTCTAGAGAAAAACAGA  
 CAATGAAATGGACTCCAGGCCATCATTTGATGAGACAAACAAGGGATTTCAACCAGATGAGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG226814 representing NM\_011388  
 Red=Cloning site Green=Tags(s)

MDNSSVCPNATVCEGDSCVVPESNFNAILNTVMSTVLTILLAMVMFSMGCNVEVHKFLGHKRPWGIFV  
 GFLCQFGIMPLTGFILSVASGILPVQAVVVLIMGCCPGGTGSNILAYWIDGMDLSVSMTTCSTLLALGM  
 MPLCLFVYTKMWVDSGTIVIPYDSIGISLVALVIPVSGFMFVNHKWPQKAKIILKIGSITGVILIVLIAV  
 IGGILYQSAWIIIEPKLWIIGTIFPIAGYSLGFFLARLAGQPWYRCRTVALETGMQNTQLCSTIVQLSFSP  
 EDLNLVFTFPLIYTVFQLVFAAVILGIYVYRKYGKNDAEFLEKTDNEMDSRPSFDETNGKFQPDEK

TRTRPLE - GFP Tag - V

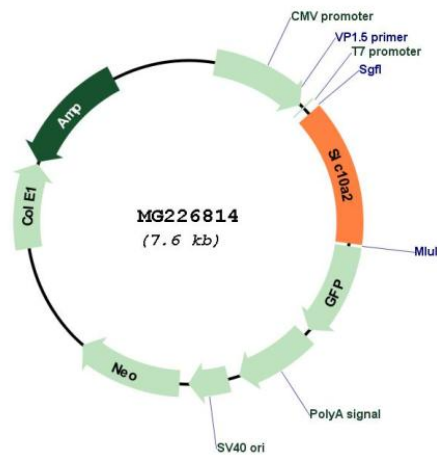
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_011388

**ORF Size:** 1044 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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_011388.3</a>
<b>RefSeq Size:</b>	1629 bp
<b>RefSeq ORF:</b>	1047 bp
<b>Locus ID:</b>	20494
<b>UniProt ID:</b>	<a href="#">P70172</a>
<b>Cytogenetics:</b>	8 2.16 cM
<b>Gene Summary:</b>	Plays a critical role in the sodium-dependent reabsorption of bile acids from the lumen of the small intestine. Plays a key role in cholesterol metabolism (By similarity).[UniProtKB/Swiss-Prot Function]