

Product datasheet for **MC209412**

Slc10a1 (NM_011387) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc10a1 (NM_011387) Mouse Untagged Clone
Tag: Tag Free
Symbol: Slc10a1
Synonyms: Ntcp
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209412 representing NM_011387
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGGGCGACAACGTATCAGCCCCCTCAATTTCTCCCTGCCGCTGGCTTTGGCCACCGGGCCACAG
ACACTGCGCTCAGCGTCATTCTGGTAGTTATGTTGCTGCTCATCATGCTCTCGCTTGGCTGCACCATGGA
GTTTCAGCAAGATCAAGGCTCACTTCTGGAAGCCAAAGGGGTGATCATCGCCATAGTGGCCAGTACGGT
ATCATGCCCTCAGTGCTTCTTCTGGCAAGGCTTTTCATCTGACCAGCATTGAGGCTCTGGCCATCC
TCATCTGCGGCTGCTCTCTGGGGGAACCTGTCTAACCTCTTACCCTGGCCATGAAGGGGACATGAA
CCTCAGCATTGTGATGACCACCTGCTCCAGCTTCACTGCCTTGGGCATGATGCCTCTCTCTTATACATC
TACAGCAAAGGAATCTACGACGGAGATCTTAAGGACAAGGTGCCCTACAAAGGCATTATGTTATCACTCG
TCATGGTTCTCATTCTTGCCCATAGGGATCTTCTGAAGTCCAAAAGGCCACACTATGTACCCTACGT
CCTCAAGGCAGGCATGATCATCACTTTCTCCCTCTCTGTGGTGTACAGTCCTGTCTGTCAATGTG
GGCAACAGCATCATGTTCTGTCATGACACCACCTTACTGGCTACCTCCTCCCTGATGCCTTTCAGTGGT
TCCTGATGGGCTACATTCTCTGCTCTTCCGACTAAATCCAAGCTGCAGACGCACCATCAGCATGGA
AACAGGATCCAAAACGTCCAACCTGTTCTACCATCTCAATGTACCTTCCCCCTGAAGTCATTGGA
CCACTGTTCTTCTCTCTCTTATATGATTTTTTCAGCTTGCAGAAGGACTTCTCTTATTATTATCT
TCCGGTGTATTTGAAAATCAAACCTCAGAAGGGTAAGTAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_011387
Insert Size: 954 bp



[View online »](#)

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_011387.2](#), [NP_035517.1](#)

RefSeq Size: 1506 bp

RefSeq ORF: 954 bp

Locus ID: 20493

Cytogenetics: 12 37.21 cM

Gene Summary: The hepatic sodium/bile acid uptake system exhibits broad substrate specificity and transports various non-bile acid organic compounds as well. It is strictly dependent on the extracellular presence of sodium.[UniProtKB/Swiss-Prot Function]
 Transcript Variant: This variant (2) contains an alternate segment in the 3' coding region that results in a frameshift and early stop codon compare to variant 1. The resulting protein (isoform 2) has a shorter, distinct C-terminus compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.