

Product datasheet for **MR226814**

Slc10a2 (NM_011388) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc10a2 (NM_011388) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Slc10a2
Synonyms: 9130221J18Rik; AI605518; ASBT; IBAT; ISBT
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR226814 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATAACTCCTCTGTCTGTCCCCAAATGCAACTGTCTGCGAAGGCGATTCTGCGTAGTACCTGAGA
GCAACTTCAATGCAATTCTCAATACAGTGATGAGCACTGTGCTCACCATCCTCTTAGCCATGGTGATGTT
TTCTATGGGGTGAATGTGGAAGTCCACAAGTTCCTAGGACATATAAAGAGACCATGGGGTATCTTCGTG
GGCTTCTCTGTCAGTTTGAATCATGCCTCTCACAGGCTTTATCCTGTCTGTGGCTCTGGCATCCTTC
CTGTACAGGCTGTAGTGGTGCTAATTATGGGTTGCTGCCCTGGAGGAAGTGGCTCCAATATCCTGGCCTA
TTGGATAGATGGCGACATGGACCTCAGTGTAGCATGACCACTTGTCCACACTGCTTGGCCTTGAATG
ATGCCTCTTTGCCTCTTCGTCTACACCAAGATGTGGGTTGACTCGGGAACGATTGTGATTCCTATGATA
GCATTGGTATTTCTGTGTTGCTCTTGTATTCCCTGTTTCCTTTGGAATGTTTGTAAATCACAAATGGCC
ACAAAAAGCGAAGATTATACTTAAAATTGGATCCATCACAGGTGTAATTCTCATTGTGCTCATAGCTGTG
ATTGGAGGAATACTGTACCAAAGTGCCTGGATCATTGAACCCAACTGTGGATTATAGGAACAATATTCC
CTATAGCTGGCTACAGCCTGGGTTTCTTCTGGCTAGACTAGCTGGTCAACCCTGGTACAGGTGCCGAAC
AGTAGCCTTGAAACTGGAATGCAGAACTCAGCTGTGCTCCACCATTGTACAGCTCTCCTTCTCCCC
GAGGATCTCAACCTGGTGTTCACCTTCCCACTCATCTATACTGTTTTCCAGCTCGTCTTTCAGCAGTAA
TATTAGGAATTTATGTCACATACAGGAAATGTTATGGAAAAATGATGCTGAGTTTCTAGAGAAAAACAGA
CAATGAAATGGACTCCAGGCCATCATTTGATGAGACAAACAAGGATTTCAACCAGATGAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR226814 protein sequence
 Red=Cloning site Green=Tags(s)

MDNSSVCPNATVCEGDSVVPESNFNAILNTVMSTVL TILLAMVMFSMGCNVEVHKFLGHIKRPWGI FV
 GFLCQFGIMPLTGFILSVASGILPVQAVVVLIMGCCPGGTGSNILAYWIDGMDL SVSMTTCSTLLALGM
 MPLCLFVYTKMWVDSGTIVIPYDSIGISLVALVIPVSGFMFVNHKWPQKAKIILKIGSITGVILIVLIAV
 IGGILYQSAWIIIEPKLWIIGTIFPIAGYSLGFFLARLAGQPWYRCRTVALETGMQNTQLCSTIVQLSFSP
 EDLNLVFTFPLIYTVFQLVFAAVILGIYVYRKYGKNDAEFLEKTDNEMDSRPSFDETNKGFQPDEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011388

ORF Size: 1047 bp

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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_011388.3](#)

RefSeq Size: 1629 bp

RefSeq ORF: 1047 bp

Locus ID: 20494

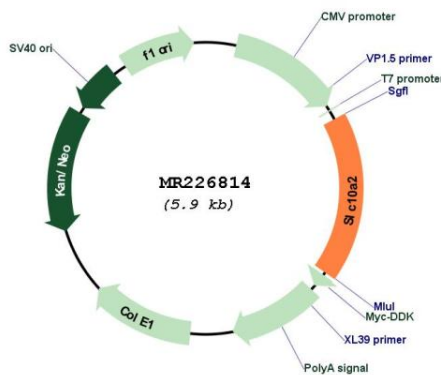
UniProt ID: [P70172](#)

Cytogenetics: 8 2.16 cM

MW: 38.1 kDa

Gene Summary: 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]

Product images:



Circular map for MR226814