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Product datasheet for SC118232

SLC10A1 (NM_003049) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC10A1 (NM_003049) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC10A1
Synonyms:	FHCA2; NTCP
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene ORF within SC118232 sequence for NM_003049 edited (data generated by NextGen Sequencing)
ATGGAGGCCCACAACGCGTCTGCCCCATTCAACTTCACCCTGCCACCCAACTTTGGCAAG
CGCCCCACAGACCTGGCACTGAGCGTCATCCTGGTGTTCATGTTGTTCTTCATCATGCTC
TCGCTGGGCTGCACCATGGAGTTCAGCAAGATCAAGGCTCACTTATGGAAGCCTAAAGGG
CTGGCCATCGCCCTGGTGGCACAGTATGGCATCATGCCCCTCACAGCCTTTGTGCTGGGC
AAGGTCTTCCGGCTGAAGAACATTGAGGCACTGGCCATCTTGGTCTGTGGCTGCTCACCT
GGAGGGAACCTGTCCAATGTCTTCAGTCTGGCCATGAAGGGGGACATGAACCTCAGCATT
GTGATGACCACCTGCTCCACCTTCTGTGCCCTTGGCATGATGCCTCTCCTCCTGTACATC
TACTCCAGGGGGATCTATGATGGGGACCTGAAGGACAAGGTGCCCTATAAAGGCATCGTG
ATATCACTGGTCCTGGTTCTCATTCCTTGCACCATAGGGATCGTCCTCAAATCCAAACGG
CCACAATACATGCGCTATGTCATCAAGGGAGGGATGATCATCATTCTCTTGTGCAGTGTG
GCCGTCACAGTTCTCTCTGCCATCAATGTGGGGAAGAGCATCATGTTTGCCATGACACCA
CTCTTGATTGCCACCTCCTCCCTGATGCCTTTTATTGGCTTTCTGCTGGGTTATGTTCTC
TCTGCTCTCTTCTGCCTCAATGGACGGTGCAGACGCACTGTCAGCATGGAGACTGGATGC
CAAAATGTCCAACTCTGTTCCACCATCCTCAATGTGGCCTTTCCACCTGAAGTCATTGGA
CCACTTTTCTTCTTTCCCCTCCTCTACATGATTTTCCAGCTTGGAGAAGGGCTTCTCCTC
ATTGCCATATTTTGGTGCTATGAGAAATTCAAGACTCCCAAGGATAAAACAAAAATGATC
TACACAGCTGCCACAACTGAAGAAACAATTCCAGGAGCTCTGGGAAATGGCACCTACAAA
GGGGAGGACTGCTCCCCTTGCACAGCCTAG

Clone variation with respect to NM_003049.3
225 g=>a
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_003049 unedited
CCCCCCGCCGCNACANCCNCCCCTACCCNNNCCNGGGGTTTCGNNATTTGTNATACGACT
TACTATAGGGCGGCCGCGCATTCGGCACGAGCTCTGTCCTGAGNAGTGATTAAAGAAGGC
ATCCAGCAAGAACTGCACAAGAAACGGAGTCAGCCGGAGAACAAGGAGTGGTCTTCCACT
GCCTCACAGGAGGATGGAGGCCCACAACGCGTCTGCCCCATTCAACTTCACCCTGCCACC
CAACTTTGGCAAGCGCCCCACAGACCTGGCACTGAGCGTCATCCTGGTGTTCATGTTGTT
CTTCATCATGCTCTCGCTGGGCTGCACCATGGAGTTCAGCAAGATCAAGGCTCACTTATG
GAAGCCTAAAGGGCTGGCCATCGCCCTGGTGGCACAGTATGGCATCATGCCCCTCACAGC
CTTTGTGCTGGGCAAGGTCTTCCGGCTGAAGAACATTGAGGCACTGGCCATCTTGGTCTG
TGGCTGCTCACCTGGAGGGAACCTGTCCAATGTCTTCAGTCTGGCCATGAAGGGGGACAT
GAACCTCAGCATTGTGATGACCACCTGCTCCACCTTCTGTGCCCTTGGCATGATGCCTCT
CCTCCTGTACATCTACTCCAGGGGGATCTATGATGGGGACCTGAAGGACAAGGTGCCCTA
TAAAGGCATCGTGATATCACTGGTCCTGGTTCTCATTCCTTGCACCATAGGGATCGTCCT
CAAATCCAAACGGCCACAATACATGCGCTATGTCATCAAGGGAAGGATGATCATCATTCT
CTTGTGCAGTGTGGCCGTCACAGTTCTCTCTGCCATCAAATGTGGGGAAGAGCATCATGT
TTGCCATGACACCACTCTTGATTGCCACCTCCTCCCTGATGCCTTNTATNGNCTNTCTGC
CTGGGTAATGTCTCTCTGCTCTCTTCTGCCTCAATGGACGGTG
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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_003049 unedited
ACTTGNACCCGGCCGCATTCTANATCGAGTTTTTTTTTTTTTTTTTTTTTAGGTTAGAAC
TTCTGAAGTTTAATTCTACAGGAGTTGTGAGCATTTATTTCTCTTTTGGGTCACAAAACT
TGGAATGGGATTTGGGTATTTGAGTAATGGGTTAAACATATATATTGATTAGTTCAGGAA
TTGAGTGACTTTAAGATGCTTATCAGACACTTTTAGAGATCCCAGCAAGAGGCAGATTCG
GTTTCTGGTTTCATAGAGTTTACAGTCACTGAACAAGTCTTTAAAATAAGTAGCAAATTC
TAAGTTGGGGATAGGTGAGGCTTCTTGGGTAGACACCCTGTCTGTGTTCCCGGCCAAGAC
TTGATGATTCTGATAGATGTACTGGAAATGCTGGAGAAAGACTCANNGCAGACTGGTGTT
TTTGCTGCTCTCTCTAGTTACCACACTGGCTTTCAGAAATGCTTTGGGACCAGAATCCAN
GCCACCCAGGGGAGGGCTAGGCTGTGCAAGGGGAGCAGTCCTCCCCTTGGAGGTGCCATT
TCCCAAAGCTCCTGGAAATTGTTCTTCATTTGGGGCACCTGGGTAGATCATTTTTGTTTT
ATCCTTGGAATCTGAATTTTTCATACCCCAAATTTTGCATTGGGAAAAGCCTTTTTCAGC
TGGAAAATCTTTAAAGGAGGGAAAAAAAAAAAGGTCCATGACCTTGGGGGAAAGGCCCTT
TAGTTGGGGGAAAAAATGGACTTTTTGGTTCCAATTCTATTTGAAAAGGGTTTCCCCCCC
TTTGGGCCAAAAAACCAAAACTTACCCCCCAAACCCTAAAGGTTTGGGGGGGGGGACAAA
AAATGTGTTGGTAAAAAAAAGTCTTCCCCTTTTTGGGAAAAAACTCTCCGCCCCCTCCAA
AAAAAGTAACATCCT
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Restriction Sites: NotI-NotI

ACCN: NM_003049

Insert Size: 1750 bp

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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_003049.1, NP_003040.1
RefSeq Size:	1580 bp
RefSeq ORF:	1050 bp
Locus ID:	6554
UniProt ID:	Q14973
Cytogenetics:	14q24.1
Domains:	SBF
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	The protein encoded by this gene belongs to the sodium/bile acid cotransporter family, which are integral membrane glycoproteins that participate in the enterohepatic circulation of bile acids. Two homologous transporters are involved in the reabsorption of bile acids; the ileal sodium/bile acid cotransporter with an apical cell localization that absorbs bile acids from the intestinal lumen, bile duct and kidney, and the liver-specific sodium/bile acid cotransporter, represented by this protein, that is found in the basolateral membranes of hepatocytes. Bile acids are the catabolic product of cholesterol metabolism, hence this protein is important for cholesterol homeostasis. [provided by RefSeq, Oct 2011]

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