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Product datasheet for SC300073

SLC10A2 (NM_000452) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC10A2 (NM_000452) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC10A2
Synonyms:	ASBT; IBAT; ISBT; NTCP2; PBAM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC300073 representing NM_000452. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGAATGATCCGAACAGCTGTGTGGACAATGCAACAGTTTGCTCTGGTGCATCCTGTGTGGTACCTGAG AGCAATTTCAATAACATCCTAAGTGTGGTCCTAAGTACGGTGCTGACCATCCTGTTGGCCTTGGTGATG TTCTCCATGGGATGCAACGTGGAAATCAAGAAATTTCTAGGGCACATAAAGCGGCCGTGGGGCATTTGT GTTGGCTTCCTCTGTCAGTTTGGAATCATGCCCCTCACAGGATTCATCCTGTCGGTGGCCTTTGACATC CTCCCGCTCCAGGCCGTAGTGGTGCTCATTATAGGATGCTGCCCTGGAGGAACTGCCTCCAATATCTTG GCCTATTGGGTCGATGGCGACATGGACCTGAGCGTCAGCATGACCACATGCTCCACACTGCTTGCCCTC GGAATGATGCCGCTGTGCCTCCTTATCTATACCAAAATGTGGGTCGACTCTGGGAGCATCGTAATTCCC TATGATAACATAGGTACATCTCTGGTTGCTCTCGTTGTTCCTGTTTCCATTGGAATGTTTGTTAATCAC AAATGGCCCCAAAAAGCAAAGATCATACTTAAAATTGGGTCCATCGCGGGCGCCATCCTCATTGTGCTC ATAGCTGTGGTTGGAGGAATATTGTACCAAAGCGCCTGGATCATTGCTCCCAAACTGTGGATTATAGGA ACAATATTTCCTGTGGCGGGTTACTCCCTGGGGTTTCTTCTGGCTAGAATTGCTGGTCTACCCTGGTAC AGGTGCCGAACGGTTGCTTTTGAAACGGGGATGCAGAACACGCAGCTATGTTCCACCATCGTTCAGCTC TCCTTCACTCCTGAGGAGCTCAATGTCGTATTCACCTTCCCGCTCATCTACAGCATTTTCCAGCTCGCC TTTGCCGCAATATTCTTAGGATTTTATGTGGCATACAAGAAATGTCATGGAAAAAACAAGGCAGAAATT CCAGAGAGCAAAGAAAATGGAACGGAGCCAGAGTCATCGTTTTATAAGGCAAATGGAGGATTTCAACCT GACGAAAAGTAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI
ACCN:	NM_000452

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Insert 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_000452.2
RefSeq Size:	3779 bp
RefSeq ORF:	1047 bp
Locus ID:	6555
UniProt ID:	Q12908
Cytogenetics:	13q33.1
Protein Families:	Druggable Genome, Transmembrane
MW:	37.7 kDa

Gene Summary: This gene encodes a sodium/bile acid cotransporter. This transporter is the primary mechanism for uptake of intestinal bile acids by apical cells in the distal ileum. Bile acids are the catabolic product of cholesterol metabolism, so this protein is also critical for cholesterol homeostasis. Mutations in this gene cause primary bile acid malabsorption (PBAM); muatations in this gene may also be associated with other diseases of the liver and intestines, such as familial hypertriglyceridemia (FHTG). [provided by RefSeq, Mar 2010]