

Product datasheet for **SC127923**

SLCO3A1 (NM_013272) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLCO3A1 (NM_013272) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLCO3A1
Synonyms:	OATP-D; OATP-RP3; OATP3A1; OATPD; OATPRP3; SLC21A11
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC127923 sequence for NM_013272 edited (data generated by NextGen Sequencing)

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ATGCAGGGGAAGAAGCCGGGCGGTTTCGTCGGGCGGCGGCCGAGCGGCGAGCTGCAGGGG
GACGAGGCGCAGAGGAACAAGAAAAAGAAAGAGGTGTCCTGCTTTTCCAACATCAAG
ATCTTCCTGGTGTCCGAGTGCGCCCTGATGCTGGCGCAGGGCACGGTGGGCGCCTACCTG
GTGAGCGTCCTGACCACCTGGAGCGTAGGTTCAACCTGCAGAGCGCTGACGTGGGTGTG
ATCGTAGCAGCTTCGAGATCGGGAACCTGGCGCTCATCTCTTCGTGAGCTACTTCGGG
GCACGCGGGCACCGGCCGCGCCTGATCGGCTGCGGCGGCATCGTCATGGCGCTGGGCGCG
CTGCTGTGCGGCGTGCCCGAGTTCTGACCCACCAAGTACAAGTACGAGGCGGGCGAGATC
CGCTGGGCGCGCGAGGGCCGCGACGTCTGCGCAGCCAACGGCTCGGGCGGCGACGAGGGG
CCCCACCCCGACCTCATCTGCCGCAACCGGACGGCTACCAACATGATGTACTTGTGCTC
ATTGGGGCCAGGTGCTCCTGGGCATCGGTGCTACCCCTGTGCAGCCCTGGGCGCTCC
TACATCGACGACCAGTGCAGGAGGAAGGACTCCTCGCTCTATAGGAATCCTGTTACG
ATGCTGGTATTTGGACGACCTGCGGGTTATCCTGGGCTCTTTCTGTACCAAACTAC
GTGGATGCAGTCTTCATTGACACAAGTAACCTGGACATCACTCCGACGACCCCCGCTGG
ATCGGAGCCTGGTGGGGTGGCTTTCTGCTCTGCGGTGCCTTACTCTTCTCTTCCCTC
TTGATGTTTGGGTTTCCACAGTCCCTGCCCCGCACTCAGACCCCGCATGGAAAGCGAG
CAGGCCATGCTCTCCGAAAGAGAATACGAGAGACCCAAGCCAGCAACGGGGTCTGAGG
CACCCCTGGAGCCAGACAGCAGTGCCTCCTGTTTCCAGCAGCTGAGAGTGATCCCGAAG
GTCACCAAGCACCTGCTCTCAAACCTGTGTTACCTGCATCATCCTGGCCGCTGCATG
GAGATTGCAGTGGTGGCTGGCTTCGCTGCCTTTTGGGGAAGTACCTGGAGCAGCAGTTT
AACCTCACCACCTCTTCTGCCAACCAGCTGCTTGGGATGACTGCGATCCCGTGTGCTTGT
CTGGGTATCTTCTGGGAGGTCTTTTGGTGAAGAAGCTCAGCCTGTCTGCCCTGGGGGCC
ATTGCGATGGCCATGCTCGTCAACCTGGTGCCACTGCTTGCTACGTCTCCTTCTCTTCT
CTGGGCTGCGGACTGGCCCTGTGGCTGGGTTACTGTTCCCTATGGAAACAGCACAGCA
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TCCTTCACTCCAGTGTGTGGGCGAGATGGCATCACCTACCTGTCTGCCTGCTTTGCTGGC
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ACCGTGGTTCTGGAAAATGCCCCAGTCTGGGTGCCAAGAGGCCTTCTCACTTTCTCTC
TGTGTGATGTGTATCTGCAGCCTGATCGGTGCCATGGCACAGACACCCTCAGTCATCATC
CTCATCAGGACAGTCAGCCCTGAACTCAAGTCTTACGCTTTGGGAGTTCTTTTCTCCTC
CTTCGTTTGTGGGCTTCATCCCTCCACCCTCATCTTCGGGGCTGGCATCGACTCCACC
TGCTGTCTGGAGCACGTTCTGTGGGGAGCAAGGCGCCTGCGTCTCTACGACAATGTG
GTCTACCGATACCTGTATGTGAGCATCGCCATCGCGCTCAAATCCTTCGCCTTCATCCTG
TACACCACACGTGGCAGTGCCTGAGGAAAACTATAAACGCTACATCAAAAACACGAG
GGCGGGCTGAGCACCAAGTGAATCTTTGCCTCTACTCTGACCCTAGACAACTGGGGAGG
GACCCTGTGCCCGCAAACAGACACATAGGACAAAGTTTATCTATAACCTGGAAGACCAT
GAGTGGTGTGAAAACATGGAGTCCGTTTTATAG

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Clone variation with respect to NM_013272.3
 729 g=>a;882 g=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_013272 unedited
 AAAAAAAAAAAGAGGGCGGNNCCCCGGTCCAGATTTTATACGATCACTATAGGCGG
 CCGCGNAATTCGCACCATAGAAGCATGGGTATCGCGGCTGCTGCGGTGGTGGCTTAGAA
 CTGTGTCTTTACCTTTCCAGCTCCGGCATGACCGGGGCTGTCGTCGTTAACCCGGTGCT
 GTGACATCACTGCACCTCGATGCGCTACCCCCGCCGGTATCTGCCCTGACACCCGGTG
 CGAGCGGGAAGCGGAAGCGGCGGCGGTGGCTGCGGCGGCGGGGAATGATGCAGGTAA
 GAATCCGGTCGGTTCGTGCGACGGCTGTCGACCGGTCTGCTGCAGGGGACGAGGCGCA
 GAGGAACAATAAAAAAGAAAAAGAGGTGTCTGCTTTTCCAACATCAAGATCTTCTGGT
 GTCCGAGTGCTCCCTGATGCTGGCGCACGGCACGGTGGGCGCCTACCTGGTGAGCGTCCT
 GACCACCTGGAGCGTAGGTTCAACCTGCAGAGCGCTGACGTGGGTGTGATCGCTAGCAG
 CTTCTAGATCGGGAACCTGGCGCTCATCTCTTCGTGAGCTACTTCGGGGCACGCGGGCA
 CCGGCCGCGCCTGATCGGCTGCGGCGGCATCGTCATGGCGCTGGGCGCGCTGCTGTCGGC
 GCTGCCGAGTTCCTGACCCACCATAACAAGTCCGAGGCGGGCGAGATCCGCTGGGCGGCC
 GAGGGCCGCGACGTCTGCGCATTCAACTGCTCGGGCGGCGACGAGGGGCCGACCCCGAC
 CTCATCTTGCCCAACCCGACGTTACCAACATGATGTACTTGCTGCTCAATGGGGCCCA
 GTGGCTCTGCGCAATCGGGGCTACCCCTGTGCAGCCCTTGGGCGTTTTCTAACTGGACC
 ACCACTGCGGGAGGAGGACTCCTCGCTTATTTAGGAACCTGTTACCGATGTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_013272 unedited
 GNCCAGGTANGAGCACTGGGNNAGGGGTACAGGGCATGCCCCGGGATCTGTTTCAGGAA
 ACAGCTATGACCGCGGCCGAATCTAGAGTTCTTTTAAAAAATGTTTTCTGTTTTGTATG
 TGTATGTGTATCAAAAAATGTCCATCCTCCAAGCTGGCCACCACTGTTCCCTGAATTTGG
 CAGTGCCCTGTTGCTTGTCTGTCAACATCCTGAAAACCATGAGGTGCCTTCCAAGTAA
 CTCTGTGGCCAGCCGCGCAGTGGCCTCCAGGACCCTGCCGCACGATGTCATTCTCTCC
 ATATTCTGAAACCTGGCTGGCTCTGATGCTGATAAAAAAGACCAACACGGGTGTGTCTGA
 CTACGCGGGGGGCATCCCGTCCCGATGTCTGAGTACTGAATCCCTAGATGGACTAACAA
 CATAACCAACCAACCANCCGAGAAGGAGGGGGCCCCGCGGGGNAACCCNANNNGNGGNA
 NNGGCGATNNATAACTAAAAACATAATAAAAAACCCGCAGCAAGGGGGGAAAAACCGAA
 AAAAACCAAAAAACCCACCTAACGCGAACGACATCGACGCCGAGAGACAGCCACAC
 AAATTTGCGGCCAGGAAGAGAGCATAGATGAGAGAACACCGGACCCACACAGCGGCAGC
 CGACAGAAAAAGGCGCGGACCGCGCAGCAAGGACCGAGAGAATCGCCATGCATCGAC
 AAACACAGCGAACAAAGAAAAAGAGCGGCGAGACGAGGAAAGACAACCAATCAAACACGG
 CCCCAGATAGGAGAGACGATATACAAACGGCGCGCGCCGACCCACGGAAGGCATAT
 TTAGATAAACCGGGGACCGAAGTGCCCGGAGGACCGCCCGN

Restriction Sites:

NotI-NotI

ACCN:

NM_013272

Insert Size:

3000 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
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_013272.2 , NP_037404.1
RefSeq Size:	2740 bp
RefSeq ORF:	2133 bp
Locus ID:	28232
UniProt ID:	Q9UIG8
Cytogenetics:	15q26.1
Domains:	OATP_N, OATP_C
Protein Families:	Transmembrane
Gene Summary:	Mediates the Na(+)-independent transport of organic anions such as estrone-3-sulfate (PubMed:10873595). Mediates transport of prostaglandins (PG) E1 and E2, thyroxine (T4), deltorphin II, BQ-123 and vasopressin, but not DPDPE (a derivative of enkephalin lacking an N-terminal tyrosine residue), estrone-3-sulfate, taurocholate, digoxin nor DHEAS (PubMed:16971491).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).