

Product datasheet for **RC223712**

SLCO3A1 (NM_013272) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLCO3A1 (NM_013272) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLCO3A1
Synonyms:	OATP-D; OATP-RP3; OATP3A1; OATPD; OATPRP3; SLC21A11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC223712 representing NM_013272
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGGGGAAGAAGCCGGGCGTTTCGTCGGGCGGCCGGAGCGGCGAGCTGCAGGGGACGAGGCGC
 AGAGGAACAAGAAAAAGAAAAAGAGGTGTCTGCTTTTCCAACATCAAGATCTTCTGGTGTCCGAGTG
 CGCCCTGATGCTGGCGCAGGGCACGGTGGGCGCTACCTGGTGAGCGTCTGACCACCCTGGAGCGTAGG
 TTCAACCTGCAGAGCGCTGACGTGGGTGTGATCGCTAGCAGCTTCGAGATCGGGAACCTGGCGCTCATCC
 TCTTCGTGAGCTACTTCGGGGCACGCGGGCACC GGCCGCGCTGATCGGCTGCGGCGGCATCGTCATGGC
 GCTGGGCGCGTCTGTCGGCGCTGCCGAGTTCTGACCACCAGTACAAGTACGAGGCGGGGAGATC
 CGCTGGGCGCCGAGGGCCGCGACGTCTGCGCAGCCAACGGCTCGGGCGGCGACGAGGGGCCGACCCCG
 ACCTCATCTGCCCAACCGGACGGCTACCAACATGATGTACTTGTGCTCATTGGGGCCAGGTGCTCCT
 GGGCATCGGTGCTACCCCTGTGACGCCCTGGGCGTCTCTACATCGACGACCAGTGGCGGAGGAAGGAC
 TCCTCGCTCTATATAGGAATCCTGTTACAGATGCTGGTATTTGGACCAGCTGCGGGTTTATCCTGGGCT
 CTTTCTGTACAAAATCTACGTGGATGCAGTCTTCATTGACACAAGTAACCTGGACATCACTCCGGACGA
 CCCCCGCTGGATCGGAGCCTGGTGGGTGGCTTTCTGCTCTGCGGTGCCTTACTCTTCTCTTCCCTC
 TTGATGTTTGGGTTTCCACAGTCCCTGCCCCGCACTCAGACCCCGCCATGGAAAGCGAGCAGGCCATGC
 TCTCCGAAAGAGAATACGAGAGACCCAAGCCAGCAACGGGTCTGAGGCACCCCTGGAGCCAGACAG
 CAGTGCCTCCTGTTTCCAGCAGCTGAGAGTGATCCCGAAGGTACCAAGCACCTGCTCTCAAACCTGTG
 TTCACCTGCATCATCCTGGCCGCTGCATGGAGATTGCAGTGGTGGCTGGCTTCGCTGCCTTTTTGGGA
 AGTACCTGGAGCAGCAGTTAACCTCACCACTCTTCTGCCAACAGCTGCTTGGGATGACTGCGATGCC
 GTGTGCTTGTCTGGGTATCTTCTGGGAGTCTTTTGGTGAAGAAGCTCAGCCTGTCTGCCCTGGGGGCC
 ATTCGGATGGCCATGCTCGTCAACCTGGTGTCCACTGCTTGTCTACGTCTCCTTCTCTTCTGGGCTGCG
 ACACTGGCCCTGTGGTGGGTTACTGTTCCCTATGGAACAGCACAGCACCTGGCTCAGCCCTGGACCC
 CTACTCGCCCTGCAATAAATAACTGTGAATGCCAAACCGATTCTTCACTCCAGTGTGTGGGCGAGATGGC
 ATCACCTACCTGTCTGCCTGCTTGTGGCTGCAACAGCACGAATCTCACGGGCTGTGCGTGCCTCACCA
 CCGTCCCTGCTGAGAACGCAACCGTGGTTCCTGGAAAAAGCCCCAGTCTGGGTGCCAAGAGGCCTTCT
 CACTTTCCTCTGTGTGATGTGTATCTGCAGCCTGATCGGTGCCATGGCACAGACACCCTCAGTCATCATC
 CTCATCAGGACAGTCAGCCCTGAACTCAAGTCTTACGCTTGGGAGTTCTTTTTCTCCTCCTTCTGTTGT
 TGGGCTTCATCCCTCCACCCCTCATCTTCGGGGCTGGCATCGACTCCACCTGCCTGTTCTGGAGCAGTT
 CTGTGGGAGCAAGGCGCCTGCGTCTCTACGACAATGTGGTCTACCGATACCTGTATGTGAGCATCGCC
 ATCGCGCTCAAATCCTTCGCTTTCATCCTGTACACCACCAGTGGCAGTGCCTGAGGAAAACTATAAAC
 GCTACATCAAAAACACGAGGGCGGGCTGAGCACCAGTGAGTTCTTTGCCTTACTCTGACCCTAGACAA
 CCTGGGGAGGGACCCTGTGCCCGCAAACAGACACATAGGACAAAGTTTATCTATAACCTGGAAGACCAT
 GAGTGGTGTGAAAACATGGAGTCCGTTTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTTAA

Protein Sequence: >RC223712 representing NM_013272
 Red=Cloning site Green=Tags(s)

MQGKKPGGSSGGGRSGELQGDEAQRNKKKKKVSFCFSNIKIFLVSECALMLAQTGTVGAYLVSVLTTLERR
 FNLQSAADVGVIASSFEIGNLALILFVSYFGARGHRPRLIGCGGIVMALGALLSALPEFLTHQYKEAGEI
 RWGAEGRDVCANGSGGDEGPDPLICRNRTATNMYYLLLIGAQVLLGIGATPVQPLGVSYIDDHVRRKD
 SSLYIGILFTMLVFGPACGFILGSFCTKIYVDAVFIDTSNLDITPDDPRWIGAWWGFLLCGALLFFSSL
 LMFGFQSLPPHSDPAMESEQAMLSEYERPKPSNGVLRHLEPDSSASCFQQLRVIPKVTKHLLSNPV
 FTCIILAACMEIAVVAGFAAFLGKYLEQQFNLTSSANQLLGMTAIPCACLGIFLGGLLVKLSLSALGA
 IRMAMLVNLVSTACYVSFLFLGCDTGPVAGVTPYGNSTAPGSALDPYSPCANNCECQTDSTFVPCGADG
 ITYLSACFAGCNSTNLTGCACLTTVPAENATVVPKCPSPGCQEAFLTFLCVMCICSLIGAMAQTPSVII
 LIRTVSPELKSIALGVFLLLRLLGFIPPLIFGAGIDSTCLFWSTFCGEQGACVLYDNVVYRYLYVSIA
 IALKSFAFILYTTTQCLRKNYKRYIKNHEGLSTSEFFASTLTLNLRDPVPANQTHRTKFIYNLEDH
 EWCENMESVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6170_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



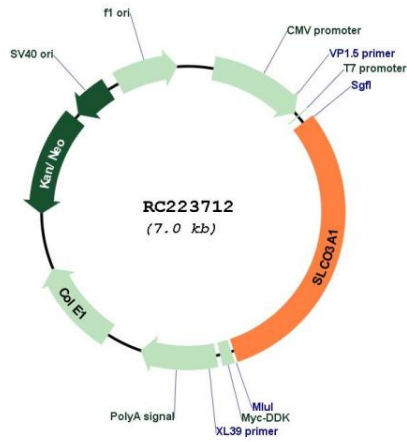
* The last codon before the Stop codon of the ORF

ACCN: NM_013272

ORF Size: 2130 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_013272.4
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
MW:	76.4 kDa
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]

Product images:



Circular map for RC223712