

## Product datasheet for **RC227456**

### **SLCO3A1 (NM\_001145044) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SLCO3A1 (NM_001145044) 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:**

>RC227456 representing NM\_001145044  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGGGGAAGAAGCCGGGCGTTTCGTCGGGCGGCCGGAGCGGCGAGCTGCAGGGGACGAGGCGC  
 AGAGGAACAAGAAAAAGAAAAAGAGGTGTCTGCTTTTCCAACATCAAGATCTTCTTGTGTCCGAGTG  
 CGCCCTGATGCTGGCGCAGGGCACGGTGGGCGCTACCTGGTGAGCGTCTGACCACCCTGGAGCGTAGG  
 TTCAACCTGCAGAGCGCTGACGTGGGTGTGATCGCTAGCAGCTTCGAGATCGGGAACCTGGCGCTCATCC  
 TCTTCGTGAGCTACTTCGGGGCACGCGGGCACCAGCCGCGCTGATCGGCTGCGGCGGCATCGTCATGGC  
 GCTGGGCGCGTCTGTCGGGCGTGCCCGATTCTGACCACCAGTACAAGTACGAGGCGGGGAGATC  
 CGCTGGGCGCGCAGGGCCGCGACGTCTGCGCAGCCAACGGCTCGGGCGGCGACGAGGGGCCGACCCCG  
 ACCTCATCTGCCTCAACCGGACGGCTACCAACATGATGTACTTGTGCTCATTGGGGCCAGGTGCTCCT  
 GGGCATCGGTGCTACCCCTGTGACGCCCTGGGCGTCTCTACATCGACGACCAGTGGCGGAGGAAGGAC  
 TCCTCGCTCTATATAGGAATCCTGTTACAGATGCTGGTATTTGGACCAGCTGCGGGTTTATCCTGGGCT  
 CTTTCTGTACAAAATCTACGTGGATGCAGTCTTCATTGACACAAGTAACCTGGACATCACTCCGGACGA  
 CCCCCGCTGGATCGGAGCCTGGTGGGTGGCTTTCTGCTCTGCGGTGCCTTACTCTTCTTCTTCCCTC  
 TTGATGTTTGGGTTTCCACAGTCCCTGCCCCGCACTCAGACCCCGCCATGGAAAGCGAGCAGGCCATGC  
 TCTCCGAAAGAGAATACGAGAGACCCAAGCCAGCAACGGGGTCTGAGGCACCCCTGGAGCCAGACAG  
 CAGTGCCTCCTGTTTCCAGCAGCTGAGAGTGATCCCGAAGGTACCAAGCACCTGCTCTCAAACCTGTG  
 TTCACCTGCATCATCCTGGCCGCTGCATGGAGATTGCAGTGGTGGCTGGCTTCGCTGCCTTTTTGGGA  
 AGTACCTGGAGCAGCAGTTAACCTCACCACCTTTCTGCCAACAGCTGCTTGGGATGACTGCGATCCC  
 GTGTGCTTGTCTGGGATCTTCTGGGAGGTCTTTGGTGAAGAAGCTCAGCCTGTCTGCCCTGGGGGCC  
 ATTCGGATGGCCATGCTCGTCAACCTGGTGTCCACTGCTTGTCTACGTCTCCTTCTTCTTCTGGGCTGCG  
 AACTGGCCCTGTGGTGGGTTACTGTTCCCTATGGAACAGCACAGCACCTGGCTCAGCCCTGGACCC  
 CTACTCGCCCTGCAATAATAACTGTGAATGCCAAACCGATTCTTCACTCCAGTGTGTGGGCGAGATGGC  
 ATCACCTACCTGTCTGCCTGCTTGTGGCTGCAACAGCACGAATCTCACGGGCTGTGCGTGCCTCACCA  
 CCGTCCCTGCTGAGAACGCAACCGTGGTTCCTGGAAAAAGCCCCAGTCTGGGTGCCAAGAGGCCTTCT  
 CACTTCTCTGTGTGATGTGTATCTGCAGCCTGATCGGTGCCATGGCACAGACACCCTCAGTCATCATC  
 CTCATCAGGACAGTCAGCCCTGAACTCAAGTCTTACGCTTGGGAGTTCTTTTTCTCCTCCTTCTGTTGT  
 TGGGCTTCATCCCTCCACCCCTCATCTTCGGGGCTGGCATCGACTCCACCTGCCTGTTCTGGAGCAGTT  
 CTGTGGGAGCAAGGCGCCTGCGTCTCTACGACAATGTGGTCTACCGATACCTGTATGTGAGCATCGCC  
 ATCGCGCTCAAATCCTTCGCTTTCATCCTGTACACCACCAGTGGCAGTGCCTGAGGAAAAACTATAAAC  
 GCTACATCAAAAACACGAGGGCGGGCTGAGCACCAGCACAGAGTACCAAGACATTGAGACTGAGAAAAAC  
 CTGCCCGAATCACATTCACCTTCAGAAGACTCCTTTGTGAGAAGC

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC227456 representing NM\_001145044  
Red=Cloning site Green=Tags(s)

MQGKKPGGSSGGGRSGELQGDEAQRNKKKKKVSFCFSNIKIFLVSECALMLAQTGVGAYLVSVLTTLERR  
 FNLQSAVDVGVIASSFIGNLALILFVSYFGARGHRPRLIGCGGIVMALGALLSALPEFLTHQYKEAGEI  
 RWGAERDVCYAANGSGGDEGPDPLICLNRTATNMYYLLLIGAQVLLGIGATPVQPLGVSYIDDHVRRKD  
 SSLYIGILFTMLVFGPACGFILGSFCTKIYVDAVFIDTSLNLDITPDDPRWIGAWWGGFLLCGALLFFSSL  
 LMFQFPQSLPPHSDPAMESEQAMLSEYERPKPSNGVLRHLEPDSSASCQQLRVIPKVTKLLSNPV  
 FTCIILAACMEIAVVAGFAAFLGKYLEQQFNLTSSANQLLGMTAIPCACLGIFLGGLLVKLSLSALGA  
 IRMAMLVNLVSTACYVSFLFLGCDTGPVAGVTPYGNSTAPGSALDPYSPCANNCECQDTSFPTVCGADG  
 ITYLSACFAGCNSTNLTGCACLTTVPAENATVVPKCPSPGCQEAFLTFLCVMCICSLIGAMAQTPSVII  
 LIRTVSPELKSIALGVLFLRLRLLGFIPPLIFGAGIDSTCLFWSTFCGEQGACVLYDNVVYRYLYVSIA  
 IALKSFAFILYTTTQCLRKNYKRYIKNHEGGLSTSTEYQDIETKTCPEHSPSEDSFVRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001145044

**ORF Size:** 2076 bp

**OTI Disclaimer:** 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\\_001145044.1](#), [NP\\_001138516.1](#)

**RefSeq ORF:** 2079 bp

**Locus ID:** 28232

**UniProt ID:** [Q9UIG8](#)

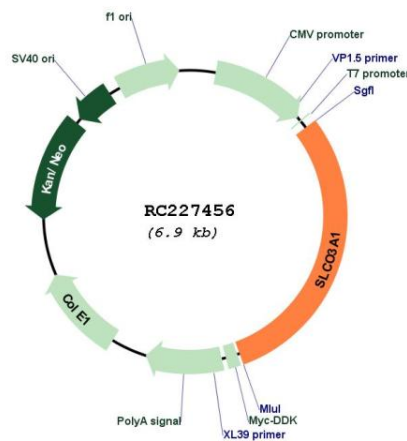
**Cytogenetics:** 15q26.1

**Protein Families:** Transmembrane

**MW:** 74.2 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 RC227456