

Product datasheet for **RG223712**

SLCO3A1 (NM_013272) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLCO3A1
Synonyms:	OATP-D; OATP-RP3; OATP3A1; OATPD; OATPRP3; SLC21A11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG223712 representing NM_013272
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCAGGGGAAGAAGCCGGCGGTTTCGTCGGCGCGCGCCGGAGCGCGAGCTGCAGGGGACGAGGCGC
 AGAGGAACAAGAAAAAGAAAAAGAGGTGTCTGCTTTTCCACATCAAGATCTTCCTGGTGCCGAGTG
 CGCCCTGATGCTGGCGCAGGGCAGGTGGGCGCCTACCTGGTGAGCGTCTGACCACCTGGAGCGTAGG
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 TCTTCGTGAGCTACTTCGGGGCAGCGGGCACCAGCGCGCCTGATCGGCTGCGGCGGCATCGTCATGGC
 GCTGGGCGCGCTGCTGTGCGCGCTGCCGAGTTCTGACCCACCAAGTACAAGTACGAGGCGGGCGAGATC
 CGCTGGGGCGCCGAGGGCCGCGACGTCTGCGCAGCCAACGGCTCGGGCGCGACGAGGGGCCGACCCCG
 ACCTCATCTGCCGAACCGGACGGCTACCAACATGATGTAATGCTGCTCATTGGGGCCAGGTGCTCCT
 GGGCATCGGTGCTACCCCTGTGCAGCCCCGGGCGTCTCTACTACGACGACCAGTGGGAGGAAGGAC
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 CCCCCGCTGGATCGGAGCCTGGTGGGTGGCTTCTGCTCTGCGGTGCCTTACTCTTCTCTTCCCTC
 TTGATGTTTGGGTTTCCACAGTCCCTGCCCCGCACTCAGACCCGCCATGGAAAGCGAGAGGCCATGC
 TCTCCGAAAGAGAATACGAGAGACCCAAGCCAGCAACGGGGTCTGAGGCACCCCTGGAGCCAGACAG
 CAGTGCCTCCTGTTTCCAGCAGCTGAGAGTGATCCCGAAGGTACCAAGCACCTGCTCTCAAACCTGTG
 TTCACCTGCATCATCCTGGCCGCTGCATGGAGATTGACAGTGGTGGCTGGCTTCGCTGCCTTTTGGGA
 AGTACCTGGAGCAGCAGTTAACCTCACCACTCTTCTGCCAACCAGCTGCTTGGGATGACTGCGATCCC
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 ATTCGATGGCCATGCTCGTCAACCTGGTGTCCACTGCTTGTACGTCTCCTTCTCTCTGGGCTGCG
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 CTACTCGCCTGCAATAATACTGTGAATGCCAACCGATTCTTCACTCCAGTGTGGGGCAGATGGC
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 CTCATCAGGACAGTCAGCCCTGAAGTCAAGTCTTACGCTTTGGGAGTCTTTTTCTCCTCTCTGTTTGT
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 CTGTGGGGAGCAAGGCGCTGCGTCTCTACGACAATGTGGTCTACCGATACCTGTATGTACAGCATCGCC
 ATCGCGCTCAAACTCTTCGCTTATCCTGTACACCACACGTGGCAGTGCCTGAGGAAAACTATAAAC
 GCTACATCAAAACACGAGGGCGGGCTGAGCACCAGTGAGTTCTTGCCTCTACTCTGACCCTAGACAA
 CCTGGGGAGGGACCCTGTGCCCGCAACACGACACATAGGACAAAGTTTATCTATAACCTGGAAGCCAT
 GAGTGGTGTAAAAACATGGAGTCCGTTTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

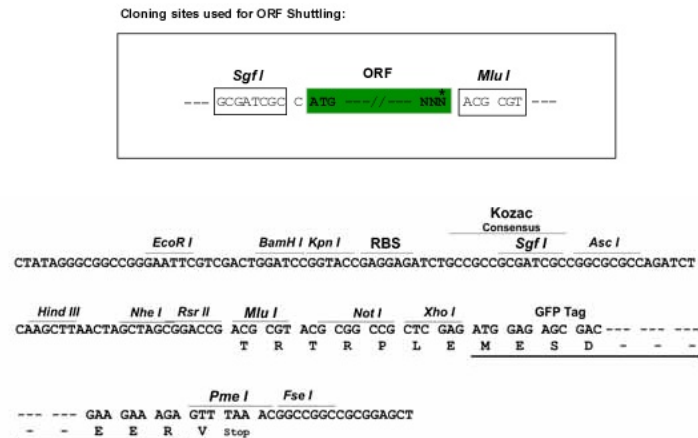
Protein Sequence: >RG223712 representing NM_013272
 Red=Cloning site Green=Tags(s)

MQGKKPGSSGGGRSGELQGDEAQRNKKKKKVSFCSNIKIFLVSECALMLAQGTVGAYLVSVLTTLERR
 FNLQSADVGVIASSFIEIGNLALILFVSYFGARGHRPRLIGCGGIVMALGALLSALPEFLTHQYKYEAGEI
 RWGAERDVCANGSGDEGPDPLICRNRTATNMMYLLIGAQVLLIGATPVQPLGVSYDDHVRKRD
 SSLYIGILFMTLVFGPACGFIILGSFCTKIYVDVAFIDTSNLDITPDDPRWIGAWWGGFLLCGALLFFSSL
 LMFQFQSLPPHSDPAMESEQAMLSEYERPKPSNGVLRHPLPDSSASCFQQLRVIPKVTKHLSSNPV
 FTCIILAACMEIAVVAGFAAFLGKYLEQQFNLTSSANQLLGMTAIPACLGIFLGGLLVKKLSLALGA
 IRMAMLVNLVSTACYVSFLFLGCDTGVPVAGVTPYGNSTAPGSALDPYSPCANNCEQDTSFTPCGADG
 ITYLSACFAGCNSTNLTGACLTTPAENATVVPKCPSPGCQEAFLFLCVMCICSLIGAMAQTPSVII
 LIRTVSPELKSALGVLFLLRLGFIPLPLIFGAGIDSTCLFWSTFCGEQGACVLYDNVVYRYLYVSIA
 IALKSFAFITYTTWQCLRNKYKRYIKNHEGLSTSEFFASTLTLDNLGRDPVPANQTHRTKFIYNLEDH
 EWCENMESVL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013272

ORF Size: 2130 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.

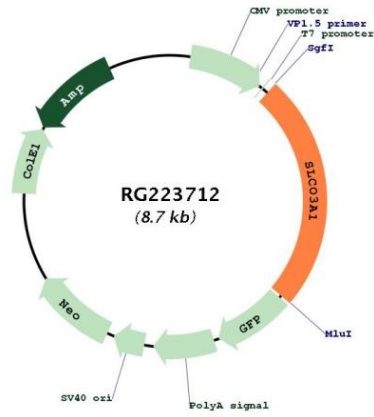
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_013272.2, NP_037404.1</u>
RefSeq Size:	2740 bp
RefSeq ORF:	2133 bp
Locus ID:	28232
UniProt ID:	<u>Q9UIG8</u>
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]

Product images:



Circular map for RG223712