

Product datasheet for **SC115618**

SLCO2B1 (NM_007256) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLCO2B1 (NM_007256) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLCO2B1
Synonyms:	OATP-B; OATP2B1; OATPB; SLC21A9
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 SC115618 sequence for NM_007256 edited (data generated by NextGen Sequencing)

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ATGGGACCCAGGATAGGGCCAGCGGGTGAAGTACCCAGGTACCAGACAAGGAAACCAA
GCCACAATGGGCACAGAAAACACACCTGGAGGCAAAGCCAGCCCAGACCCCTCAGGACGTG
CGGCCAAGTGTGTCCATAACATCAAGCTGTTCTGTGCCACAGCCTGCTGCAGCTG
GGCAGCTCATGATCTCCGGCTACCTAAAGAGCTCCATCTCCACAGTGGAGAAGCGCTTC
GGCCTCTCCAGCCAGACGTGGGGCTGCTGGCCTCCTTCAACGAGGTGGGGAACACAGCC
TTGATTGTGTTTGTGAGCTATTTTGGCAGCCGGGTGCACCGACCCGAATGATTGGCTAT
GGGGCTATCCTTGTGGCCTGGCGGGCCTGCTCATGACTCTCCCGCACTTCATCTCGGAG
CCATACCCTACGACAACACCAGCCCTGAGGATATGCCACAGGACTTCAAGGCTTCCCTG
TGCCTGCCACAACCTCGGCCAGCCTCGGCCCTCCAATGGCAACTGCTCAAGCTAC
ACAGAAACCCAGCATCTGAGTGTGGTGGGATCATGTTCTGTGCCACAGACCCTGCTGGGC
GTGGCGGGGTGCCATTAGCCCTTTGGCATCTCCTACATCGATGACTTTGCCACAAC
AGCAACTCGCCCCTACCTCGGATCCTGTTTGCAGTGACCATGATGGGGCCAGGCCTG
GCCTTTGGGCTGGGCAGCCTCATGCTGCGCCTTTATGTGGACATTAACCAGATGCCAGAA
GGTGGTATCAGCCTGACCATAAAGGACCCCGATGGGTGGGTGCCTGGTGGCTGGTTTC
CTCATCGCTGCCGTGTCAGTGGCCTGGCTGCCATCCCCTACTTCTTCTCCCAAGGAA
ATGCCAAGGAAAAACGTGAGCTTCAGTTTCGGCGAAAGGTCTTAGCAGTACAGACTCA
CCTGCCAGGAAGGGCAAGGACTCTCCCTCTAAGCAGAGCCCTGGGGAGTCCACGAAGAAG
CAGGATGGCCTAGTCCAGATTGCACAAACCTGACTGTGATCCAGTTCATTAAAGTCTTC
CCCAGGGTGTGCTGCAGACCCTACGCCACCCATCTTCTGTGGTGGTCTGTCCCAG
GTATGCTTGTATCCATGGTGGCGCATGGCCACCTTCTGCCAAGTTCCTGGAGCGC
CAGTTTTCCATCACAGCCTCTACGCCAACCTGCTCATCGGCTGCCTCTCCTTCCCTTCG
GTCATCGTGGGCATCGTGGTGGGTGGCGTCTGGTCAAGCGGCTCCACCTGGGCCCTGTG
GGATGCGGTGCCCTTTCCTGCTGGGGATGCTGCTGTGCCTTCTTTCAGCCTGCCGCTC
TTCTTTATCGGCTGCTCCAGCCACCAGATTGCGGGCATCACACACCAGACCAGTGGCCAC
CCTGGGCTGGAGCTGTCTCAAGCTGCATGGAGGCCTGCTCCTGCCATTGGACGGCTTT
AACCTGTCTGCGACCCAGCACTCGTGTGGAATACATCACACCCTGCCACGCAGGCTGC
TCAAGTGGGTGGTCCAGGATGCTCTGGACAACAGCCAGGTTTTTACACCAACTGCAGC
TGCGTGGTGGAGGCAACCCCGTCTGGCAGGATCCTGCGACTCAACGTGCAGCCATCTG
GTGGTGCCTTCTGCTCCTGGTCAAGCCTGGGCTCGGCCCTGGCCTGTCTCACCCACACA
CCCTCCTTCATGCTCATCCTAAGAGGAGTGAAGAAAGAAGACAAGACTTTGGCTGTGGGC
ATCCAGTTCATGTTCTGAGGATTTTGGCCTGGATGCCAGCCCGTGTATCCACGGCAGC
GCCATCGACACCACCTGTGTGCACTGGGCCCTGAGCTGTGGGCGTCGAGCTGTCTGTGCG
TACTACAATAATGACCTGCTCCGAAACCGTTTCATCGGCCTCCAGTTCCTTCTTCAAACA
GGTTCTGTGATCTGCTTCGCCTTAGTTTTGGCTGTCTGAGGCAGCAGGACAAAGAGGCA
AGGACCAAAGAGAGCAGATCCAGCCCTGCCGTAGAGCAGCAATTGCTAGTGTGGGGCCA
GGGAAGAAGCCAGAGGATTCCCGAGTGTGA

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Clone variation with respect to NM_007256.4

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007256 unedited
 GGCGGCCCGCAATTCGCACGAGGGNACAGNAAGGGAGCAAGTGGACCCAGGGNAGACAA
 ACACCTGGAGATACTTGGGGCTGAGTTTGAGCAAGACTCCCTAACCTGTGTCTGGACAAG
 TCTGATGTCTGTGTGGCCCAAGAAGAACTGACCCCGTGTCTGGAGCTCCCACCGTTATT
 GCATCCCTGTGTGGCTCACCTGCTGTGTCTCCAGGAGCCCCTGAGAAGATTTGCCTCC
 TCTCCCCTGTAAAGCTCCAGTCCCTGAGATTGAATTAGGGGCTGGAGCTCACTGCCTCC
 AGCAGTCATGGGACCCAGGATAGGGCCAGCGGGTGAGGTACCCAGGTACCAGACAAGGA
 AACCAAAGCCACAATGGGCACAGAAAACACACCTGGAGGCAAAGCCAGCCAGACCCTCA
 GGACGTGCGGCCAAGTGTGTTCCATAACATCAAGCTGTTGTTCTGTGCCACAGCCTGCT
 GCAGCTGGCGCAGCTCATGATCTCCGGCTACCTAAAGAGCTCCATCTCCACAGTGGAGAA
 GCGCTTCGGCCTCTCCAGCCAGACGTCGGGGCTGCTGGCCTCCTTCAACGAGGTGGGGAA
 CACAGCCTTGATTGTGTTGTGAGCTATTTTGGCAGCCGGGTGCACCGACCCGAATGAT
 TGGCTATGGGGCTATCCTTGTGGCCTGGCGGGCTGCTCATGACTCTCCCGCACTTTCA
 TCTCGAGCCATACCGCTACGACAACACCAGCCCCTGAGATATGCCACAGGACTTCAGGGC
 TTCCCTGTGCCTGCCACNAACCTCGNCCCAGCCNCTCGNCCNCTNCATTGGNCACTGCT
 CAAGCTCACANGAACCCACATCTGANTGTGGTGGGGGATCATGTTCTGTGCCACAGACCC
 TGCTGGNNCGTGGCCGGGTGCCATTTACGCTTTTGCTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007256 unedited
 CCCCAGAAATACTATGTACCGCGCCGCTTCNANGATCGNATTTTTTTTTTTTTTTTTTTT
 TATGCAAAAACAAATTTAATAAAGCTGTATCTATAATTCAGACTTTTTTTTCCCTGCA
 AAACCTGGGAAACAAGAGGGATGAAGGAATATAAACATCCTAAAAGCCTCATATTGTTGA
 AGGAGACTTTGAAATCTTGGCGTTGATAGATACATGCTCAGATATTTATTAACATTTA
 CAGATACCAACCAGCAAAATAAAAAGGGAATTGGAACCTCTGTACCTCCCTTTTCTTTTA
 TCATGTGGGAAAGTCTCAAAGCCCTGGCACTGGGAGCTGCTCAGAAGGCAAGGGCCACAT
 GTGCCCCAGCTTCCCCCACCACAGCACAGGGCCAGACAAGCCACTGCTGATGGCTCC
 CTGTCTGCTGCCTCCCGAGCAGTAGGTCCCAGCGAGGTGGGGTGGTAATAGGTTGGGCTG
 GGAGCAGATTAGCAAACCTCTCCTCCCCGCAAGGAAATAACCAGGCCAGATAAGACTAG
 CCATAAAAACAAAACAAGGGCTGATGTAGAAAAGGATTGGATCATAAGACACGAGCAAGCC
 ATAGCATCACTCATTACACAGAGCTGAGCTTTACTGCTCCAGCACTACAGTCTGGGCC
 TGACACCAGCCCCAGCATCGGAGAACCAGGTGCCACCCCAAAAAACAGTGTCCAGAAC
 TAAACATTATCCCACTGCCCCAGTGACACAAACCCAGCCCCCAGAGAAAATAAAGA
 AATTAGGATCCCTATCACAAAGTCACAGGGACTTTGGTGGCCCTGGTACATGTGTGAA
 ATCTTGGCCAATGTGTAGAATCCATGACTGCGCGCTGGAGT

Restriction Sites:

NotI-NotI

ACCN:

NM_007256

Insert Size:

4130 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_007256.2](#), [NP_009187.1](#)

RefSeq Size: 4108 bp

RefSeq ORF: 2130 bp

Locus ID: 11309

UniProt ID: [O94956](#)

Cytogenetics: 11q13.4

Domains: OATP_N, OATP_C

Protein Families: Transmembrane

Gene Summary: This locus encodes a member of the organic anion-transporting polypeptide family of membrane proteins. The protein encoded by this locus may function in regulation of placental uptake of sulfated steroids. Alternatively spliced transcript variants have been described. [provided by RefSeq, Nov 2010]
 Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).