

## Product datasheet for **RG226820**

### **SLCO2B1 (NM\_001145211) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SLCO2B1 (NM_001145211) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLCO2B1
Synonyms:	OATP-B; OATP2B1; OATPB; SLC21A9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG226820 representing NM\_001145211  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGACCAGGATAGGGCCAGCGGGTGAAGTACCCAGGTACCAGACAAGGAAACCAAAGCCACAATGG  
 GCACAGAAAACACACCTGGAGGCAAAGCCAGCCAGACCCTCAGGACGTGCGGCCAAGTGTGTTCCATAA  
 CATCAAGCTGTTCTGTGCCACAGCCTGCTGCAGCTGGCGCAGCTCATGATCTCCGGCTACCTAAAG  
 AGCTCCATCTCCACAGTGGAGAAGCGCTTCGGCCTCTCCAGCCAGACGTGGGGGTGCTGGCCTCCTTCA  
 ACGAGGTGGGGAACACAGCCTTGATTGTGTTTGTGAGCTATTTTGGCAGCCGGGTGCACCGACCCCGAAT  
 GATTGGCTATGGGGCTATCCTTGTGCCCTGGCGGCCTGCTCATGACTCTCCGCACTTCATCTCGGAG  
 CCATACCGCTACGACAACACCAGCCCTGAGGATATGCCACAGGACTTCAAGGCTTCCTGTGCCTGCCCA  
 CAACCTCGGCCAGCCTCGGCCCTCCAATGGCAACTGCTCAAGCTACACAGAAACCCAGCATCTGAG  
 TGTGGTGGGGATCATGTTTCGTGGCACAGACCCTGCTGGGCGTGGCGGGGTGCCATTACGCCCTTTGGC  
 ATCTCCTACATCGATGACTTTGCCACAACAGCAACTCGCCCTCTACCTCGGGATCCTGTTTGCAGTGA  
 CCATGATGGGGCCAGGCCTGGCCTTTGGGCTGGGCAGCCTCATGCTGCGCCTTTATGTGGACATTAAACCA  
 GATGCCAGAAGGTGGTATCAGCCTGACCATAAAGGACCCCGATGGGTGGGTGCCTGGTGGCTGGGTTTC  
 CTCATCGCTGCCGGTGCAGTGGCCCTGGCTGCCATCCCTACTTCTTCTCCCAAGGAAATGCCAAGG  
 AAAACGTGAGCTTCAGTTTCGGCGAAAGGTCTTAGCAGTCACAGACTCACCTGCCAGGAAGGGCAAAGGA  
 CTCTCCCTCTAAGCAGAGCCCTGGGGAGTCCACGAAGAAGCAGGATGGCCTAGTCCAGATTGCACCAAC  
 CTGACTGTGATCCAGTTCATTAAGTCTTCCCCAGGGTGTGCTGCAGACCCTACGCCACCCCATCTTCC  
 TGCTGGTGGTCTGTCCAGGTATGCTTGTCCATCCATGGCTGCGGGCATGGCCACCTTCTGCCAAGTT  
 CCTGGAGCGCCAGTTTTCCATCACAGCCTCCTACGCCAACCTGCTCATCGGCTGCCTCTCCTTCCCTTCG  
 GTCATCGTGGGCATCGTGGTGGGTGGCGTCTGGTCAAGCGGCTCCACCTGGGCCCTGTGGGATGCGGTG  
 CCCTTTGCCTGTGGGATGCTGCTGTGCCTCTTCTTACGCTGCGCTCTTCTTATCGGCTGCTCCAG  
 CCACCAGATTGCGGGCATCACACACCAGACCAGTCCCCACCTGGGCTGGAGCTGTCTCCAAGCTGCATG  
 GAGGCTGCTCCTGCCATTGGACGGCTTAAACCCTGTCTGCGACCCAGCACTCGTGTGGAATACATCA  
 CACCCTGCCACGCAGGCTGCTCAAGCTGGGTGGTCCAGGATGCTCTGGACAACAGCCAGGTTTTCTACAC  
 CAACTGCAGCTGCGTGGTGGAGGGCAACCCGTGCTGGCAGGATCCTGCGACTCAACGTGCAGCCATCTG  
 GTGGTGCCCTTCTGCTCCTGGTCAAGCTGGGCTGGGCTCGGCCCTGGCCTGTCTCACCCACACCCCTCCTTCA  
 TGCTCATCCTAAGAGGAGTGAAGAAAGAAGACAAGACTTTGGCTGTGGGCATCCAGTTTCATGTTCCCTGAG  
 GATTTTGGCCTGGATGCCAGCCCGTGATCCACGGCAGCGCCATCGACACCACCTGTGTGCACTGGGCC  
 CTGAGCTGTGGGCGTCGAGCTGTCTGTCGCTACTACAATAATGACCTGCTCCGAAACCGGTTTCATCGGCC  
 TCCAGTCTTCTTCAAACAGGTTCTGTGATCTGCTTCGCCTTAGTTTTGGCTGTCTGAGGCAGCAGGA  
 CAAAGAGGCAAGGACCAAAGAGAGCAGATCCAGCCCTGCCGTAGAGCAGCAATTGCTAGTGTGGGGCCA  
 GGAAGAAGCCAGAGGATTCCCGAGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226820 representing NM\_001145211  
 Red=Cloning site Green=Tags(s)

MGPRIGPAGEVPQVPDKETKATMG TENTPGGKASPDPQDVRPSVFHNIKLFVLC HSLQLAQLMISGYLK  
 SSISTVEKRFG LSSQTSGLLASFNEVNTALIVFVSYFGSRVHRPRMIGYGAILVALAGLLM TLPHFISE  
 PYRYDNTSPEDMPQDFKASLCLPTTSAPASAPSNNGC SSYTETQHLSVVGIMFVAQ TLLGVGGVPIQPF G  
 ISYIDDFAHNSNSPLYLGILFAVTMMGPGLA FGLGSLMLRLYVDINQMPEGGISLTIKDRWVGAWWLGF  
 LIAAGAVALAAIPYFFPKEMPKEKRELQFRRKVLAVT DSPARKGKDSPSKQSPGESTKKQDGLVQIAPN  
 LTVIQFIKVFPRVLLQTLRHPIFLLVVL SQVCLSSMAAGMATFLPKFLERQFSITASYANLLIGCLSFPS  
 VIYIVVGGV LKRLHLGPVGCALCLLGM LLLCLFFSLPLFFIGCSSHQIAGITHQ TSAHPGLELSPSCM  
 EACSCPLDGFNPVCDPSTRVEYITPCHAGC SSWVVDALDNSQVFYTNCS CVVEGNPVLAGSCDSTCSHL  
 VVPFLLL VSLGSALACLTHTPS FMLILRGVKKEDKTLAVGIQFMFLRILAWMPSPIHGSAIDTTCVHWA  
 LSCGRRAVCRYNNDLLRNRF IGLQFFFKTGSVICFALVLA VLRQQDKEARTKESRSPAVEQQLLVSGP  
 GKPKEDSRV

TRTRPLE - GFP Tag - V

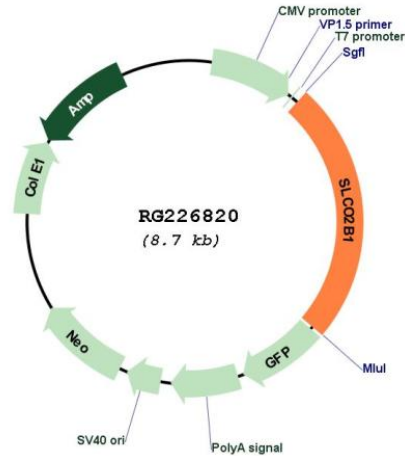
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



## Plasmid Map:



ACCN: NM\_001145211

## 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](mailto: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.

**RefSeq:** [NM\\_001145211.1](#), [NP\\_001138683.1](#)

**RefSeq Size:** 4057 bp

**RefSeq ORF:** 2064 bp

**Locus ID:** 11309

**UniProt ID:** [O94956](#)

**Cytogenetics:** 11q13.4

**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]