

## Product datasheet for **RN205345**

### **Slco1a2 (NM\_131906) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slco1a2 (NM_131906) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slco1a2
Synonyms:	Oatp2; Slc21a5; Slco1a4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN205345 representing NM\_131906  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGAAAATCTGAGAAAAGGGTTGCAACCCATGGGGTCAGATGTTTTGCCAAGATCAAGATGTTTTCTGT  
 TGGCATTAAACATGTGCATATGTATCCAAATCATTATCAGGAACCTATATGAATCCATGCTCACACAAAT  
 AGAGAGACAATTCGGTATCCCCACATCTATAGTTGGGCTTATCAATGGGAGCTTTGAAATAGGAAACCTT  
 TTGTTGATTATTTGTGAGTTATTTGGAAACAAAACCTCACAGACCTATCATGATTGGTGTGGATGTG  
 CAGTTATGGGCCTGGGGTGTTCCTAATCTCGCTACCCCATTTCTCATGGGCAATATGAATATGAAAC  
 GATTTTACCTACAAGCAACGTGTCCTCAAACAGCTTCTTCTGTGTGAAAAACAGATCCCAGACCTTAAAT  
 CCAACACAAGACCCCTCAGAGTGTGTGAAAGAAATGAAATCATTAAATGTGGATATATGTACTGGTAGGAA  
 ACATAATACGTGGAATTGGTGAACCTCCATCATGCCCTTGGGTATTTCTACATTGAAGACTTTGCCAA  
 ATCTGAAAACCTCCTTTATACATTGGGATTTTAGAAACAGGAATGACCATTGGCCCTTTGATTGGACTT  
 CTGTTGGCTTCTTCTGTGCAAACATTTATGTAGACATTGAGTCTGTGAATACAGATGACCTGACCATAA  
 CTCCCACAGATACACGCTGGGTCCGAGCTTGGTGGATCGGCTTTTTGGTCTGTGCAGGAGTGAATATCCT  
 GACCAGCTTTCCCTTTTTCTTTTTCCAAAACACTTCCAAAGGAAGGATTACAGGAGAATGTGGATGGA  
 ACTGAAAATGCCAAAGAGAAGAAACACAGAAAAAGGCCAAGGAAGAAAAACGAGGAATCACTAAAGATT  
 TCTTTGTGTTTCAAGAGCCTCTCCTGCAATCCAATTTACATGCTTTTCATCCTTATAAGTGTCTCCA  
 GTTCAATGCATTTATCAATTCATTTACCTTCATGCCTAAGTATCTGGAACAGCAATATGAAAAATCCACT  
 GCTGAGGTAGTCTCCTTATGGGCTTTTATATGTTACCTCCAATATGCCTCGGATATTTAATTGGTGGTT  
 TGATTGAAGAAGTTCAAGTTACTGTCAAGAAAGCTGCACACTTAGCATTCTGGCTCGCTGTCTGA  
 GTACCTTCTGTCTTTCTTAGCTATGTGATGACCTGTGATAATTTCCAGTGGCAGGCTTAAACAACCTCT  
 TATGAAGGGGTTCAAGCAACTATATGTGGAGAACAAGTCTTGTGACTGTAAACACAAGGTGTAAC  
 GCTCAACGAACACATGGGATCCAGTGTGTGGAGACAATGGCCTGGCATAACATGTCAGCCTGCCTGCAGG  
 CTGTGAGAAGTCTGTTGGAACAGGAACCAACATGGTGTTCAGAAATGCAGCTGCATTAGTATCGGGG  
 AACTCATCTGCAGTCTGGGCCTGTGTAACAAAGGCCCTGACTGTCCAACAAGTGCAGTACTTCTTAA  
 TCATAGCAATATTTGGCTGTTTCATATACTCGCTGGCAGGCATTCAGGGTATATGGTCTTCTGAGGTG  
 TATCAAGTCTGAAGAGAAGTCACTTGGAGTTGGGTTACATGCATTTTGCATAAGAATATTAGCTGGCATT  
 CCTGCACCCATTTACTTTGGAGCTTTGATAGACAGAACCTGTTTACATTGGGGAACCTGAAATGTGGTG  
 AGCCCGGGGCATGCAGGATGTATGACATAAACAGCTTCAGACGTCTTTACCTGGATTGCCGGCTGCACT  
 AAGAGGAGCAAGCTTTGTCCCGCCTTCTTCAATTAAGACTTACGAGGACATTCCAGTTCCTGGGGAC  
 ATTGAGTCTTCAAAAACCTGATCATGCGGAGATGAAGCTCACCTTGAAGGAAAGTGAAGTGCACAGAAGTCC  
 TAAGGTCGAAAGTACGGAGGAC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2063\\_d10.zip](https://cdn.origene.com/chromatograms/ja2063_d10.zip)

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_131906

**Insert Size:** 1986 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](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](#)

**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\\_131906.1](#), [NP\\_571981.1](#)

**RefSeq Size:** 3622 bp

**RefSeq ORF:** 1986 bp

**Locus ID:** 170698

**UniProt ID:** [O35913](#)

**Cytogenetics:** 4q44

**Gene Summary:** mediates transport of a wide range of organic anions including bile acids, estrogen conjugates, ouabain, and digoxin; may be involved in digoxin toxicity [RGD, Feb 2006]