

## Product datasheet for **RG207910**

### SLCO2A1 (NM\_005630) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLCO2A1 (NM_005630) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLCO2A1
Synonyms:	MATR1; OATP2A1; PGT; PHOAD; PHOAR2; SLC21A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG207910 representing NM\_005630  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGCTCTGCCAAGCTCGGCGCTCCAGGGCAGCGACACCTCTACTAGCCGAGCCGCGCTGTG  
 CCCGCTCGGTCTTCGGCAACATTAAGGTGTTGTGCTCTGCCAAGGCCTCCTGCAGCTCTGCCAACTCCT  
 GTACAGCGCTACTTCAAGAGCAGCCTACCACCATTGAGAAGCGCTTTGGGCTCTCCAGTTCTTCATCG  
 GGTCTCATTTCCAGCTTGAATGAGATCAGCAATGCCATCCTCATCATCTTTGTCAGCTACTTTGGCAGCC  
 GGGTGCACCGTCCACGTCTGATTGGCATCGGAGGTCTCTTCTGGCTGCAGGTGCCTTCATCCTCACCT  
 CCCACACTTCTCTCGAGCCCTACCAGTACACCTTGGCCAGCACTGGGAACAACAGCCGCTTGCAGGCC  
 GAGCTCTGCCAGAAGCATTGGCAGGACCTGCCTCCAGTAAGTCCACAGCACCACCCAGAACCCCCAGA  
 AGGAGACCAGCAGCATGTGGGCGCTGATGGTGGTTGCCAGCTGTGGCTGGCATCGGGACAGTGCCTAT  
 TCAGCCATTTGGGATCTCTATGTGGATGACTTCTCAGAGCCAGCAACTCGCCCTGTACATCTCCATC  
 TTATTTGCCATCTCTGTATTTGGACCGCTTTCGGGTACCTGCTGGGCTCTGTATGCTGCAGATCTTTG  
 TGGACTATGGCAGGGTCAACACAGCTGCAGTAACTTGGTCCCGGTGACCCCGATGGATTGGAGCCTG  
 GTGGTAGGCCTGCTCATTTCTCAGCTTATTGGTTCTCACCTTTTCCCTTTTTTTCTTCCCTCGA  
 GCAATGCCCATAGGAGCAAAGAGGGCTCCTGCCACAGCAGATGAAGCAAGGAAGTTGGAGGAGGCCAAGT  
 CAAGAGGCTCCCTGGTGGATTTCAATAACGGTTTCCATGCATCTTTCTGAGGCTCCTGATGAACACT  
 CTTGCTCCTGGTGGTCTGGCCAGTGCACCTTCTCCTCCGTATTGCTGGCCTTCCACCTTCTCAAC  
 AAGTTCCTGGAGAAGCAGTATGGCACCTCAGCAGCCTATGCCAACTTCTCATTGGTGTGTGAACCTCC  
 CTGCTGCAGCCTTGGGGATGCTGTTGGAGGAATCCTCATGAAGCGCTTTGTTTTCTCTACAAGCCAT  
 TCCCCGCATAGCTACCACCATCATCACCATCTCCATGATCCTTTGTGTTCTTTGTTCTTCATGGGATGC  
 TCCACCCCAACTGTGGCCGAAGTCTACCCCTAGCACATCAAGTTCTATACATCCGCAGTCTCCTGCCT  
 GCCGCAGGACTGCTCGTGCCAGATTCTATCTTCCACCCGGTCTGTGGAGACAATGGAATCGAGTACCT  
 CTCCCCTTGCCATGCCGGCTGCAGCAACATCAACATGAGCTCTGCAACCTCAAGCAACTGATCTATTTG  
 AACTGCAGCTGTGTGACCGGGGATCCGCTTCAAGCAAGACAGGATCGTGCCTGTCCCCTGTGCCACT  
 TCCTGCTCCCGGCATCTTCTCATCTCCTTCTGTGCTGATAGCTGCATCTCCACAACCCCTCTA  
 CATGATGGTCTGCGTGTGGTGAACCAGGAGAAAAGTCAATTTGCCATCGGGGTGCAGTTCTTGTGATG  
 CGTTGCTGGCCTGGCTGCCATCTCCAGCCCTCTATGGCCTCACCATTGACCACTCCTGCATCCGGTGG  
 ACTCGCTGTGCTTGGGGAGGCGAGGGGCTGCGCCTACTATGACAACGATGCTCTCCGAGACAGGTACCT  
 GGGCTGCAGATGGGCTACAAGGCGCTGGGCATGCTGCTTTGCTTTCATCAGCTGGAGGGTGAAGAAG  
 AACAAGGAGTACAACGTGCAGAAGGCGGCAGGCCTCATC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG207910 representing NM\_005630  
 Red=Cloning site Green=Tags(s)

MGLLPKLGASQGSSTSRAGRCARSVFVFNKVFVLCQGLLQLCQLLYSAYFKSSLTTIEKRFGLSSSS  
 GLISSLNEISNAILIIIFVSYFGRVHRPRLIGIGLFLAAGAFILTLPHFLSEPYQYTLASTGNNSRLQA  
 ELCQKHWDLPSPKCHSTTQNPQKETSMMWGLMVVAQLLAGIGTVPIQPFGISYVDFSEPSNSPLYISI  
 LFAISVFGPAFGYLLGSVMLQIFVDYGRVNTAAVNLVPGDPRWIGAWWLGLLISSALLVLTSPFFFFPR  
 AMPIGAKRAPATADEARKLEEAKSRGSLVDFIKRFPCIFLRLLMNSLFVLVLAQCTFSSVIAGLSTFLN  
 KFLEKQYGTSAAYANFLIGAVNLPAAALGMLFGGILMKRFVSLQAIPRIATTIITISMLCVPLFFMGC  
 STPTVAEYYPSTSSSIHPQSPACRRDCSCPDSIFHPVCGDNGIEYLSPCHAGCSNINMSSATSKQLIYL  
 NCSCVTGGSASAKTGSCPVCAHFLPAIFLISFVSLIACISHNPLYMMVLRVNVQEEKSFAIGVQFLLM  
 RLLAWLPSPALYGLTIDHSCIRWNSLCLGRRGACAYYDNDALRDRYGLQMGYKALGMLLLCFISWRVKK  
 NKEYNVQKAAGLI

**TRTRPLE** – GFP Tag – V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM\_005630

ORF Size: 1929 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](#)

**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\\_005630.3](#)

**RefSeq Size:** 4040 bp

**RefSeq ORF:** 1932 bp

**Locus ID:** 6578

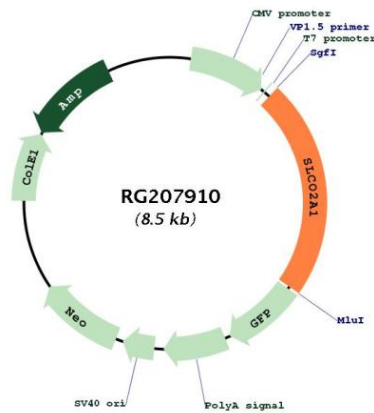
**UniProt ID:** [Q92959](#)

**Cytogenetics:** 3q22.1-q22.2

**Protein Families:** Transmembrane

**Gene Summary:** This gene encodes a prostaglandin transporter that is a member of the 12-membrane-spanning superfamily of transporters. The encoded protein may be involved in mediating the uptake and clearance of prostaglandins in numerous tissues. [provided by RefSeq, Dec 2011]

**Product images:**



Circular map for RG207910