

## Product datasheet for **RG220849**

### **SLCO1A2 (NM\_021094) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SLCO1A2 (NM_021094) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLCO1A2
Synonyms:	OATP; OATP-A; OATP1A2; SLC21A3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG220849 representing NM\_021094  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGGAGAACTGAGAAAAGAATTGAAACCCATAGAATAAGATGTCTTTCCAAGTTGAAGATGTTTCTGT  
TGGCAATAACATGTGCATTTGTATCCAAAACACTGTCTGGATCTTATATGAATTCATGCTCACACAAAT  
AGAGAGACAATCAACATCCCAACATCTCTAGTTGGATCATAATGGAAGCTTTGAGATTGAAAATCTT  
TTGTTGATTATTTGTGAGTTATTTTGAACCAAACACTGCATAGACCTATAATGATTGGCATTGGATGTG  
TGGTTATGGGCTTAGGCTGTTTCTTAAATCACTACCTCATTTCCTCATGAACCAATATGAATATGAATC  
TACAGTTTCAGTTTCAGGCAACTGTCTCAAACAGTTTCTTGTGTATGGAAAATGGAACCCAGATTTTA  
AGACCAACGCAGGATCCATCAGAGTGTACAAAGGAAGTTAAATCATAATGTGGGTGTACGTCCTAGTAG  
GCAATATTGTACGTGGAATGGGTGAAACTCCCATCCTGCCTTTGGGTATTTCTATATAGAAGATTTTGC  
CAAATTTGAAAATTCCTTTTATATATTGGGCTGTAGAAAACAGGAGCTATTATTGGTCTTTGATTGGA  
CTTTTGTGGCATTCTGTGCAAATGTTTATGTTGACTGGATTTGTGAACACAGATGATCTGATCA  
TAACTCCCACTGACACTCGTTGGGTGCGTGCATGGTGGTTTGGCTTTCTGATTTGTGAGGATTAACGT  
GCTCACTGCCATTCCTTTTTCTTTTTGCCCAACACACTTCCAAAGGAAGGACTAGAGACTAATGCTGAC  
ATCATTAAAAATGAAAATGAAGACAAAACAAAAGAAGAGGTCAAGAAGGAAAAATATGGAATCACTAAAG  
ATTTTCTACCTTTCATGAAAAGTCTTTCCTGCAATCCAATTTATATGCTTTTCATACTTGTAAAGTGTGAT  
ACAGTTCAATGCATTCGTTAACATGATCCTTCATGCCTAAATACCTAGAACAGCAATATGGAATATCA  
TCTTCAGATGCAATCTTCTAATGGGTATTTATAACTTACCTCCAATATGTATTGGATATATAATTGGTG  
GTTTAATTATGAAGAAGTCAAGATTACTGTCAAACAAGCTGCCACATAGGATGTTGGTTATCCTTACT  
TGAGTATCTTCTATTTTTTATCTTTTCTCATGACTTGTGAAAATTCCTCAGTTGTTGGAATAAATACC  
TCTTATGAAGGAATCCACAAGATTTATATGTGAAAATGACATCTTTGCTGATTGCAATGTGGATTGCA  
ACTGTCCATCTAAAATATGGGATCCTGTGTGTGAAAACAATGGCTTGTATATCTGTGAGCTTGTCTTGC  
TGGTTGTGAGACATCCATTGGAACGGGAATAAACATGGTGTTCAAAATTCAGCTGATTCAAACATCA  
GGAAATTCATCTGCAGTTCTTGGGCTGTGCGACAAAGGACCTGACTGTTCTTGTGCTCCAGTACTTCC  
TAATCTTGTGAGGATGAGCAGTTTCATTTATTCTTTGGCTGCCATACCTGGATATATGTTTCTCTTGG  
GTGATGAAATCTGAAGAGAAGTCCCTTGGTGTGGGATTACATACATTTTGCACAAGAGTATTTGCTGGC  
ATTCCTGCACCTATATATTTGGCGCTTAAATGGATTCCACATGTTTACACTGGGAACTTTGAAATGTG  
GTGAGTCAGGGGATGCAGGATATATGATTCCACCACCTTCAGATACATCTACCTCGGATTGCCGGCAGC  
ACTAAGAGGATCAAGCTTTGTTCCAGCCTTAATCATCTTAATTCTTTTGGGAAGTGTACATCTACCTGGT  
GAAAATGCCTCTTCAGGAACAGAGCTTATAGAGACAAAAGTCAAAGGGAAGGAAAATGAGTGCAAAGATA  
TATACAAAAGTCCACGGTTTTGAAAGATGATGAATTGAAAACAAATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG220849 representing NM\_021094  
 Red=Cloning site Green=Tags(s)

MGETEKRIETHRIRCLSKLKMFLLAITCAFVSKTLSGSYMNMSMLTQIERQFNIPSTLVGFINGSFEIGNL  
 LLIIIFVSYFGTKLHRPIMIGIGCVVMGLGCFLKSLPHFLMNQYESTVSVSGNLSNSFLCMENGTQIL  
 RPTQDPSECTKEVKSLMWVYVVGNIVRGMGETPILPLGISYIEDFAKFENSPLYIGLVETGAIIGPLIG  
 LLLASFACANVYVDTGFVNTDDLIIPTDTRWVGAWWFGFLICAGVNVLTAIPIFFLPNTLPKEGLETNAD  
 IIKNENEDKQKEEVKKEKYGITKDFLPFMKSLSCNPIYMLFILVSVIQFNAFVNMI SFMPKYLEQQYGIS  
 SSDAIFLMGIYNLPPICIGYIIGGLIMKKFKITVKQAAHIGCWLSLLEYLLYFLSFLMTCENSSVVGINT  
 SYEGIPQDLYVENDIFADCNVDCNCPSKIWDPVCGNGLSYLSACLACGSETSIGTGINMVFQNCSCIQTS  
 GNSSAVLGLCDKGPDCSLMLQYFLILSAMSSFIYSLAAIPGYMVLRLCMKSEEKSLGVLHTFCTRVFAG  
 IPAPIYFALMDSTCLHWGTLKCGESGACRIYDSTTFRYIYLG LPAALRGSSFPALIIILLRKCHLPG  
 ENASSGTELIETKVKGKENECKDIYQKSTVLKDDDELKTKL

TRTRPLE - GFP Tag - V

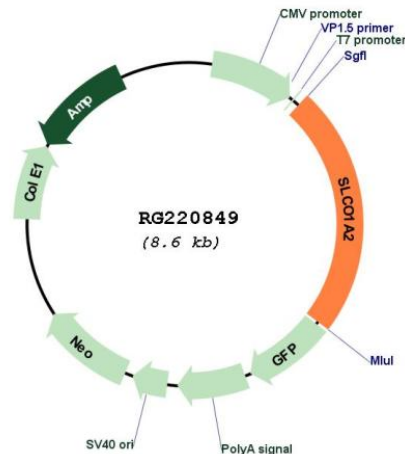
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



## Plasmid Map:



ACCN: NM\_021094

ORF Size: 2010 bp

**OTI Disclaimer:** 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\\_021094.4](#)

RefSeq Size:	2919 bp
RefSeq ORF:	2013 bp
Locus ID:	6579
UniProt ID:	<a href="#">P46721</a>
Cytogenetics:	12p12.1
Domains:	OATP_N, OATP_C
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a sodium-independent transporter which mediates cellular uptake of organic ions in the liver. Its substrates include bile acids, bromosulphophthalein, and some steroidal compounds. The protein is a member of the SLC21A family of solute carriers. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Dec 2008]