

## Product datasheet for **RG222130**

### OATP2 (SLCO1B1) (NM\_006446) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OATP2 (SLCO1B1) (NM_006446) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OATP2
Synonyms:	HBLRR; LST-1; LST1; OATP-C; OATP1B1; OATP2; OATPC; SLC21A6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
Protein Sequence:	>RG222130 representing NM_006446 Red=Cloning site Green=Tags(s)

```
MDQNQHLNKTAEAQPSNKKTRYCNGLKMFALAALSLSFIAKTLGAIIMKSSIIHIERRFEISSSLVGFID
GSFEIGNLLVIVFVSYFGSKLHRPKLIGIGCFIMGIGGVLTAHPHFMGYRYSKETNIDSSSENSTLS
TCLINQILSLNRASPEIVGKGLKESGSYMWIYVFMGNMLRGIGETPIVPLGLSYIDDFAKEGHSSLYLG
ILNAIAMIGPIIGFTLGSLSFKMYVDIGYVDLSTIRITPTDSRWVGAWWLNFLVSGLSIISSIPFFFLP
QTPNKPKERKASLSLHVLETNDEKQDTANLTNQGKNITKNVTGFFQSFKSILTNPLYVMFVLLTLLQVS
SYIGAFYVFKYVEQQYQPSSKANILLGVITIPIFASGMFLGGYIIKKFKLNTVGIKFSCTAVMSLS
FYLLYFFILCENKSVAGLTMTYDGNPVTSHRDVPLSYCNSDCNCDESQWEPVCGNNGITYISPLAGCK
SSSGNKKPIVFYNCSCLEVTGLQNRNYSAPHLGECPRDDACTRKFYFFVAIQVLNLFVSALGGTSHVMLIV
KIVQPELKSALGFHSMVIRALGGILAPIYFGALIDTTCIKWSTNCGTRGSCRTYNSTFSRVYGLLSS
MLRVSSLVLYIILYAMKKKYQEKDINASENGVMDEANLESLNKNKHFVPSAGADSETHC
```

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:



- ACCN:** NM\_006446
- ORF Size:** 2073 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\\_006446.3](#)

**RefSeq Size:** 2830 bp

**RefSeq ORF:** 2076 bp

**Locus ID:** 10599

**UniProt ID:** [Q9Y6L6](#)

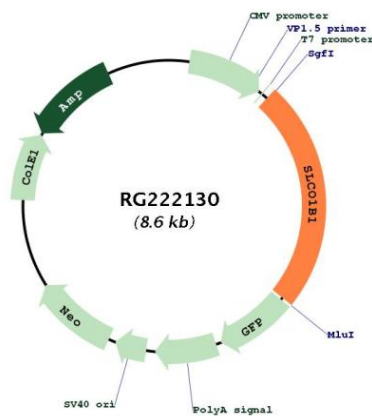
**Cytogenetics:** 12p12.1

**Domains:** OATP\_N, OATP\_C

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** This gene encodes a liver-specific member of the organic anion transporter family. The encoded protein is a transmembrane receptor that mediates the sodium-independent uptake of numerous endogenous compounds including bilirubin, 17-beta-glucuronosyl estradiol and leukotriene C4. This protein is also involved in the removal of drug compounds such as statins, bromosulfophthalein and rifampin from the blood into the hepatocytes. Polymorphisms in the gene encoding this protein are associated with impaired transporter function. [provided by RefSeq, Mar 2009]

## Product images:



Circular map for RG222130