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Product datasheet for RC222130

OATP2 (SLCO1B1) (NM_006446) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	OATP2
Synonyms:	HBLRR; LST-1; LST1; OATP-C; OATP1B1; OATP2; OATPC; SLC21A6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC222130 representing NM_006446
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACCAAAATCAACATTTGAATAAAACAGCAGAGGCACAACCTTCAGAGAATAAGAAAACAAGATACT
GCAATGGATTGAAGATGTTCTTGGCAGCTCTGTCACTCAGCTTTATTGCTAAGACACTAGGTGCAATTAT
TATGAAAAGTTCCATCATTCATATAGAACGGAGATTTGAGATATCCTCTTCTCTTGTTGGTTTTATTGAC
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CAAAGTTAATTGGAATCGGTTGTTTCATTATGGGAATTGGAGGTGTTTTGACTGCTTTGCCACATTTCTT
CATGGGATATTACAGGTATTCTAAAGAAACTAATATCGATTCATCAGAAAATTCAACATCGACCTTATCC
ACTTGTTTAATTAATCAAATTTTATCACTCAATAGAGCATCACCTGAGATAGTGGGAAAAGGTTGTTTAA
AGGAATCTGGGTCATACATGTGGATATATGTGTTCATGGGTAATATGCTTCGTGGAATAGGGGAGACTCC
CATAGTACCATTGGGGCTTTCTTACATTGATGATTTCGCTAAAGAAGGACATTCTTCTTTGTATTTAGGT
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ACGTGGATATTGGATATGTAGATCTAAGCACTATCAGGATAACTCCTACTGATTCTCGATGGGTTGGAGC
TTGGTGGCTTAATTTCCTTGTGTCTGGACTATTCTCCATTATTTCTTCCATACCATTCTTTTTCTTGCCC
CAAACTCCAAATAAACCACAAAAAGAAAGAAAAGCTTCACTGTCTTTGCATGTGCTGGAAACAAATGATG
AAAAGGATCAAACAGCTAATTTGACCAATCAAGGAAAAAATATTACCAAAAATGTGACTGGTTTTTTCCA
GTCTTTTAAAAGCATCCTTACTAATCCCCTGTATGTTATGTTTGTGCTTTTGACGTTGTTACAAGTAAGC
AGCTATATTGGTGCTTTTACTTATGTCTTCAAATACGTAGAGCAACAGTATGGTCAGCCTTCATCTAAGG
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TGGCACACGTGGGTCATGTAGGACATATAATTCCACATCATTTTCAAGGGTCTACTTGGGCTTGTCTTCA
ATGTTAAGAGTCTCATCACTTGTTTTATATATTATATTAATTTATGCCATGAAGAAAAAATATCAAGAGA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222130 representing NM_006446
Red=Cloning site Green=Tags(s)

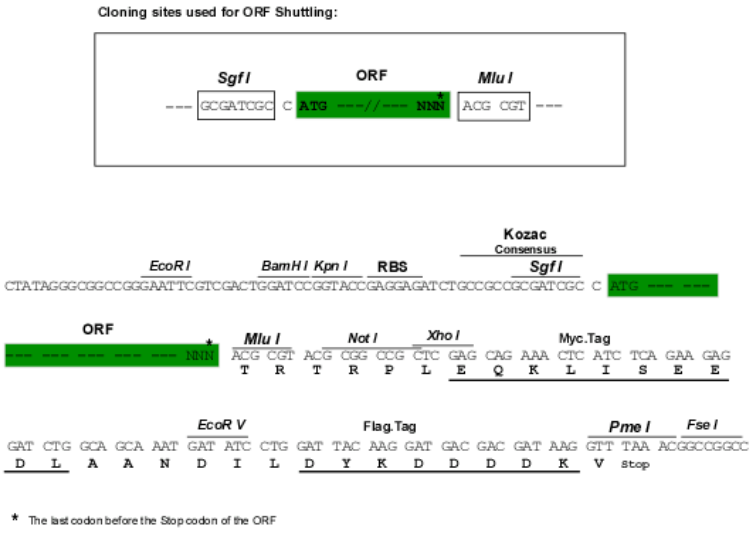
MDQNQHLNKTAEAQPSENKKTRYCNGLKMFLAALSLSFIAKTLGAIIMKSSIIHIERRFEISSSLVGFID
GSFEIGNLLVIVFVSYFGSKLHRPKLIGIGCFIMGIGGVLTALPHFFMGYYRYSKETNIDSSENSTSTLS
TCLINQILSLNRASPEIVGKGCLKESGSYMWIYVFMGNMLRGIGETPIVPLGLSYIDDFAKEGHSSLYLG
ILNAIAMIGPIIGFTLGSLFSKMYVDIGYVDLSTIRITPTDSRWVGAWWLNFLVSGLFSIISSIPFFFLP
QTPNKPQKERKASLSLHVLETNDEKDQTANLTNQGKNITKNVTGFFQSFKSILTNPLYVMFVLLTLLQVS
SYIGAFTYVFKYVEQQYGQPSSKANILLGVITIPIFASGMFLGGYIIKKFKLNTVGIAKFSCFTAVMSLS
FYLLYFFILCENKSVAGLTMTYDGNNPVTSHRDVPLSYCNSDCNCDESQWEPVCGNNGITYISPCLAGCK
SSSGNKKPIVFYNCSCLEVTGLQNRNYSAHLGECPRDDACTRKFYFFVAIQVLNLFFSALGGTSHVMLIV
KIVQPELKSLALGFHSMVIRALGGILAPIYFGALIDTTCIKWSTNNCGTRGSCRTYNSTSFSRVYLGLSS
MLRVSSLVLYIILIYAMKKKYQEKDINASENGSVMDEANLESLNKNKHFVPSAGADSETHC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2944_e06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006446

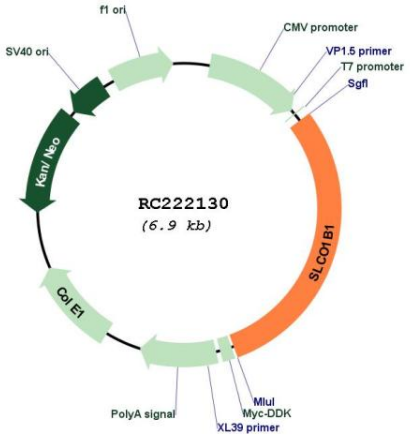
ORF Size: 2073 bp

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

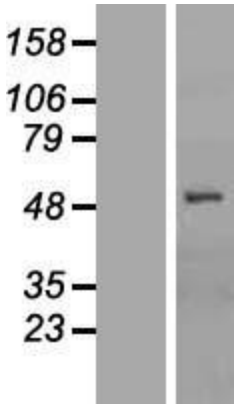
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
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
MW:	76.3 kDa
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 RC222130



Western blot validation of overexpression lysate (Cat# [LY401938]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222130 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).