

Product datasheet for **RG226774**

SLCO1C1 (NM_001145945) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLCO1C1
Synonyms:	OATP-F; OATP1; OATP1C1; OATP14; OATPF; OATPRP5; SLC21A14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG226774 representing NM_001145945
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGACACTTCATCCAAAGAAATATCCAGTTGTTCTGCAAACTTCAGTGCAACCTGTTGGAAGGCCTT
 CTTTTAAACAGAAATATCCCTCCTCAGAAGAAAAGCAACCATGCTGTGGTGAACATAAGGTGTTCTGTG
 TGCCTTGCTTTTGTCTTACTTTGCCAAAGCATTGGCAGAAGGCTATCTGAAGAGCACCATCACTCAGATA
 GAGAGAAGGTTTGATATCCCTTCTTCACTGGTGGGAGTTATTGATGGTAGTTTTGAAATTGGGAATCTCT
 TAGTTATAACATTTGTTAGCTACTTTGGAGCCAACTTCACAGGCCAAAATAATTGGAGCAGGGTGTGT
 AATCATGGGAGTTGGAACACTGCTCATTGCAATGCCTCAGTTCTTCATGGAGCAGTACAAATATGAGAGA
 TATTCTCCTTCTCCAATTCCACTCTCAGCATCTCTCGTGTCTCCTAGAGTCAAGCAGTCAATTACCAG
 TTTGAGTTATGGAATAAATAAATCCAAATAAGTAACGGGTGTGTGCAGACGGTTCGAATTATAGGACC
 AATCTTTGGTTTCTGTAGGCTCATTATGTGCCAACTATATGTTGACATTGGCTTTGTAACCTAGAT
 CACATAACCATACCCAAAAGATCCCAAGTGGTAGGAGCCTGGTGGCTTGGCTATCTAATAGCAGGAA
 TCATAAGTCTTCTGACGCTGTGCCTTTCTGGTATTTACCAAGAGTTTACCAAGATCCCAAGTAGAGA
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 GGAGAAAATGCAAAAATAATGGAAATGGCAAGAGATTTTCTCCATCACTGAAGAATCTTTTGGAAACC
 CAGTATACCTTCTATATTTATGTACAAGCACTGTTCAAGTTCAATTCTCTGTTCCGCATGGTGACGTACAA
 ACCAAAGTACATTGAGCAGCAGTATGGACAGTCATCCTCCAGGGCCAACTTTGTGATCGGGCTCATCAAC
 ATTCCAGCAGTGGCCCTTGAATATTCTCTGGGGGATAGTTATGAAAAATTCAGAATCAGTGTGTGTG
 GAGCTGCAAACTCTACTTGGGATCATCTGTCTTTGGTTACCTCTATTTCTTCCCTGTTTGCAGTGGG
 CTGTGAAAATCTGATGTGGCAGGACTAACTGTCTCCTACCAAGGAACCAAACTGTCTCTTATCATGAA
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 TATATTTTCAACTGCACTTGTGTGGGAATGCAGCTTCTAAATCCGGAATTCCTCAGGCATAGTGGGA
 AGATGTGAGAAAGACAATGGATGTCCCAATGTTTCTGTATTTCTTGTAAATTCAGTCATCACATCCT
 ATACTTTATCCCTAGGTGGCATACCTGGATACATATTACTTCTGAGGTGCATTAAGCCACAGCTTAAGTC
 TTTTGCCTTGGGTATCTACACATTAGCAATAAGAGTTCTTGCAGGAATCCAGCTCCAGTGTATTTTGA
 GTTTTGATTGATACTTCATGCCTCAAATGGGATTTAAAGATGTGGAAGTAGAGGATCATGCAGATTAT
 ATGATTCAAATGTCTTACAGCATATATATCTGGGACTAACTGTGATACTGGGCACAGTGTCAATTCCT
 AAGCATTGCAGTACTTTTCATTTTAAAGAAAAATTATGTTTCAAAACACAGAAGTTTATAACCAAGAGA
 GAAAGAACATGGTGTCTACAAGATCCAAAGGAAAATTACACTACAAGTGATCATCTGCTACAACCCA
 ACTACTGGCCAGGCAAGGAACTCAACTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226774 representing NM_001145945
 Red=Cloning site Green=Tags(s)

MDTSSKENIQLFCKTSVQPVGRPSFKTEYPSSEKQPCCGELKVFLCALSFVYFAKALAEGLKSTITQI
 ERRFDIPSSLVGVIDGSFEIGNLLVITFVSYFGAKLHRPKIIGAGCVIMGVGTLLIAMPQFFMEQYKYER
 YSPSSNSTLSISPCLESSLQPVSVMEKSKISNGCVQTVAIIGPIFGFLLGSLCAKLYVDIGFVNLD
 HITITPKDPQWVGAWWLYLIAGIISLLAAVPFWYLPKSLPRSQSREDSNSSSEKSKFIIDDHTDYQTPQ
 GENAKIMEMARDFLPSLKNLFGNPVYFLYLCSTVQFNSLFGMVTYKPKYIEQQYQGSSSRANFVIGLIN
 IPAVALGIFSGGIWMKKFRISVCGAAKLYLGSSVFGYLLFLSLFALGCENS DVAGLTVSYQGT KPVSYHE
 RALFSDCNSRCKCSETKWEPMCENGITYVSACLACQTSNRSGKNIIFYNCTCVGIAASKSGNSSGIVG
 RCQKDNCGCPQMFLYFLVISVITSYTLSLGGIPGYILLRLCIKPQLKSFALGIYTLAIRVLGIPAPVYFG
 VLIDTSLKWKGFKRCGSRGSCRLYDSNVFRHIYLGTLVILGTVSILLSIAVLFILKKNYVSKHRSFITKR
 ERTMVSTRFQKENYTTSDHLLQPNYWPGETQL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145945

ORF Size: 1989 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_001145945.1](#), [NP_001139417.1](#)

RefSeq Size: 3221 bp

RefSeq ORF: 1992 bp

Locus ID: 53919

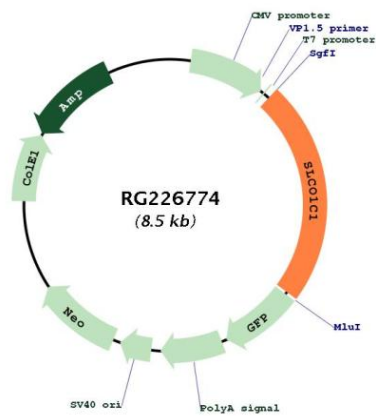
UniProt ID: [Q9NYB5](#)

Cytogenetics: 12p12.2

Protein Families: Transmembrane

Gene Summary: This gene encodes a member of the organic anion transporter family. The encoded protein is a transmembrane receptor that mediates the sodium-independent uptake of thyroid hormones in brain tissues. This protein has particularly high affinity for the thyroid hormones thyroxine, tri-iodothyronine and reverse tri-iodothyronine. Polymorphisms in the gene encoding this protein may be associated with fatigue and depression in patients suffering from hyperthyroidism. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2009]

Product images:



Circular map for RG226774