

Product datasheet for **RG204074**

CYP1B1 (NM_000104) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP1B1 (NM_000104) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CYP1B1
Synonyms:	ASGD6; CP1B; CYP1B1; GLC3A; P4501B1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204074 representing NM_000104
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCACCAGCCTCAGCCGAACGACCCTTGCCCGCTAAACCCGCTGTCCATCCAGCAGACCACGCTCC
 TGCTACTCCTGTCGGTGTGCGCCACTGTGCATGTGGGCCAGCGGCTGCTGAGGCAACGGAGCGGCAGCT
 CCGGTCCGCGCCCCGGGCCCGTTTGCCTGGCCACTGATCGAAACGCGCGCGGTGGGCCAGGCGGCT
 CACCTCTCGTTCGCTCGCTGGCGCGGCTACGGCGACGTTTTCCAGATCCGCCTGGCAGCTGCCCA
 TAGTGGTGTGAATGGCAGCGCCATCCACCAGGCCCTGGTGCAGCAGGGCTCGGCCCTCGCCGACCG
 GCCGCCCTTCGCCTCCTCCGTGTGGTGTCCGGCGGCCGAGCATGGCTTTCGGCCACTACTCGGAGCAC
 TGAAGGTGCAGCGCGCAGCCACAGCATGATGCGCAACTTCTTACGCGCCAGCCGCGAGCCGCC
 AAGTCTCGAGGGCCACGTGCTGAGCGAGGCGCGAGCTGGTGGCGCTGCTGGTGGCGGCGAGCGCGA
 CGCGCCCTTCCTCGACCCGAGGCGCTGACCGTGTGGCCGTGGCAACGTCATGAGTCCGTGTGTTTC
 GGCTGCCGCTACAGCCACGACGCCCGAGTTCGGTGTGAGCTGCTAGCCACAACGAAGAGTTCGGGCGCA
 CGGTGGGCGCGGGCAGCCTGGTGGACGTGATGCCCTGGCTGCAGTACTTCCCAACCCGGTGGCACCCT
 TTTCCGGAATTCGAGCAGCTCAACCGCAACTTCAGCAACTTCATCCTGGACAAGTTCCTGAGGCACTGC
 GAAAGCCTTCGGCCCGGGGCCGCCCGCCCGCGACATGATGGACGCCTTTATCCTCTCTCGGAAAAGAAGG
 CGGCCGGGACTCGCACGGTGGTGGCGCGCGCTGGATTTGGAGAACGTACCGGCCACTATCACTGACAT
 CTTCCGGCCAGCCAGGACACCTGTCCACCGCGCTGCAGTGGCTGCTCCTCCTTCCACAGGTATCCT
 GATGTGCAGACTCGAGTGCAGGCAGAATTGGATCAGTCTGGGAGGGACCGTGCCTTGTATGGGTG
 ACCAGCCCAACCTGCCCTATGTCCTGGCCTTCTTTATGAAGCCATGCGCTTCTCCAGCTTGTGGCTGT
 CACTATTCTCATGCCACCACTGCCAACACCTCTGTCTTGGGCTACCACATTCCTCAAGGACTGTGGTT
 TTTGTCAACCAAGTGGTCTGTGAATCATGACCCAGTGAAGTGGCCTAACCCGGAGAAGTTCCTGATCCAGCTC
 GATTCTTGGACAAGGATGGCCTCATCAACAAGGACCTGACCAGCAGAGTATGATTTTTTTCAGTGGGCAA
 AAGCGGTGCATTGGCGAAGAATTTCTAAGATGCAGCTTTTTCTTCTCATCTCCATCCTGGCTCACCAG
 TGCGATTTAGGGCAACCCAAATGAGCCTGCGAAAATGAATTTAGTATGGTCAACCATTAACCCA
 AGTCATTTAAAGTCAATGCTACTCTCAGAGAGTCCATGGAGCTCCTTGATAGTGTGTCCAAAATTTACA
 AGCCAAGGAAACTTGCCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG204074 representing NM_000104
 Red=Cloning site Green=Tags(s)

MGTSLSPNDPWPLNPLSIQQTLLLLLVLATVHVQRLLRQRRRQLRSAPPGPFAWPLIGNAAAVGQAA
 HLSFARLARRYGDVQFIRLGSPIVVLNGERAIHQALVQQGSFAFADRPFAFRVVSAGGSMAGFYSEH
 WKVQRRAAHSMRNFFTRQPRSRQVLEGHVLSARELVALLVRGSADGAFLDPRPLTVVAVANVMSAVCF
 GCRYSHDDPEFRELLSHNEEFGRTVGAGSLVDVMPWLQYFNPVVRTVREFEQLNRNFSNFILDKFLRHC
 ESLRPGAAPRDMDAFILSAEKKAAGDSHGGGARLDLENVPATITDIFGASQDTLSTALQWLLLLFTRYP
 DVQTRVQAEQVVDVGRDRLPCMGDQPNLPYVLAFLYEAMRFSFVPVTIPHATTANTSVLGYHIPKDTVV
 FVNQSVNHDPVKWPNPENFDPARFLDKDGLINKDLTSRVMIFSVGKRRCIGEELSKMQLFLFISILAHQ
 CDFRANPNPAKMNFSYGLTIKPKSFKVNVTLRESMELLDSAVQNLQAKETCQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_000104

ORF Size: 1629 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 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](#)

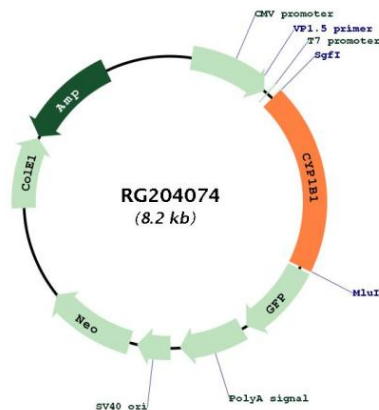
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_000104.2, NP_000095.1](#)
RefSeq Size: 5128 bp
RefSeq ORF: 1632 bp
Locus ID: 1545
UniProt ID: [Q16678](#)
Cytogenetics: 2p22.2
Domains: p450
Protein Families: Druggable Genome, P450
Protein Pathways: Metabolism of xenobiotics by cytochrome P450, Tryptophan metabolism
Gene Summary: This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. The enzyme encoded by this gene localizes to the endoplasmic reticulum and metabolizes procarcinogens such as polycyclic aromatic hydrocarbons and 17beta-estradiol. Mutations in this gene have been associated with primary congenital glaucoma; therefore it is thought that the enzyme also metabolizes a signaling molecule involved in eye development, possibly a steroid. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204074