

Product datasheet for **SC103335**

CYP1B1 (NM_000104) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP1B1 (NM_000104) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYP1B1
Synonyms:	ASGD6; CP1B; CYP1B1; GLC3A; P4501B1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC103335 sequence for NM_000104 edited (data generated by NextGen Sequencing)

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ATGGGCACCAGCCTCAGCCCGAACGACCCTTGGCCGCTAAACCCGCTGTCCATCCAGCAG
ACCACGCTCCTGCTACTCCTGTGCGGTGCTGGCCACTGTGCATGTGGGCCAGCGGCTGCTG
AGGCAACGGAGGGCGGCAGCTCGGGTCCGCGCCCCGGGCCGTTTGCCTGGCCACTGATC
GGAAACCGGGCGGCGGTGGGCCAGGCGGCTCACCTCTCGTTCGCTCGCCTGGCGGGCGC
TACGGCAGCTTTTCCAGATCCGCCTGGGCAGCTGCCCCATAGTGGTGTGAATGGCGGAG
CGCGCCATCCACCAGGCCCTGGTGCAGCAGGGCTCGGCCTTCGCCGACCGGCCGTCTTC
GCCTCCTTCCGTGTGGTGTCCGGCGGCCGAGCATGGCTTTCGGCCACTACTCGGAGCAC
TGGAAAGGTGCAGCGGCGCGCAGCCACAGCATGATGCGCAACTTCTTACGCGCCAGCCG
CGCAGCCGCCAAGTCTCGAGGGCCACGTGCTGAGCGAGGCGCGGAGCTGGTGGCGCTG
CTGGTGCGCGGCAGCGGGACGGCGCCTTCTCGACCCGAGGCCGCTGACCGTGTGGCC
GTGGCCAACTGATGAGTGCCTGTGTTTCGGCTGCCGCTACAGCCACGACGACCCCGAG
TTCCTGTAGCTGCTCAGCCACAACGAAGAGTTCGGGCGCACGGTGGGCGGGCAGCCTG
GTGGACGTGATGCCCTGGCTGCAGTACTTCCCCAACCCGGTGCACACCGTTTTCCCGGAA
TTGAGCAGCTCAACCGCAACTTCAGCAACTTCATCCTGGACAAGTTCTTGAGGCACTGC
GAAAGCCTTCGGCCCGGGGCCGCCCGCCCGCAGCATGATGGACGCCTTTATCCTCTCTGCG
GAAAAGAAGGCGGCCGGGACTCGCACGGTGGTGGCGCGCGGCTGGATTTGGAGAACGTA
CCGGCCACTATCACTGACATCTTCGGCGCCAGCCAGGACACCCTGTCCACCGCGCTGCAG
TGGCTGCTCCTCCTTACCAGGTATCCTGATGTGCAGACTCGAGTGCAGGCAGAATTG
GATCAGGTCGTGGGAGGGACCGTCTGCCTTGTATGGGTGACCAGCCAACTGCCCTAT
GTCCTGGCCTTCCCTTATGAAGCCATGCGCTTCTCCAGCTTTGTGCTGTCACTATTCCT
CATGCCACCACTGCCAACACCTCTGTCTTGGGCTACCACATCCCAAGGACACTGTGGTT
TTTGTCAACCAAGTGGTCTGTGAATCATGACCCACTGAAGTGGCCTAACCCGGAGAACTTT
GATCCAGCTCGATTCTTGACAAGGACGGCCTCATCAACAAGGACCTGACCAGCAGAGTG
ATGATTTTTTTCAGTGGGCAAAAGCGGTGCATTGGCGAAGAACTTTCTAAGATGCAGCTT
TTTCTTTCATCTCCATCCTGGCTCACCAGTGCATTTTCAGGGCCAAACCAATGAGCCT
GCGAAAATGAATTTTCAGTTATGGTCTAACCATTAACCCAAAGTCAATTAAGTCAATGTC
ACTCTCAGAGAGTCCATGGAGCTCCTTGATAGTGTGTCCAAAATTTACAAGCCAAGGAA
ACTTGCCAATAA
    
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Clone variation with respect to NM_000104.3
 142 c=>g;355 g=>t;1347 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000104 unedited

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CTCCGTTTGTAAACCGACTTTCTATAGGCGGCCGACGAATTCGCACGAGGTGGGAGCGAGC
GCTTTCGCGACTCCGTTGTGAGAGCCCGCAGGGCATGGGAATTGACGCCACTCACCGACCC
CCAGTCTCAATCTCAACGCTGTGAGGAAACCTCGACTTTGCCAGTCCCCAAGGGCAGCG
GGGCTCGGCGAGCGAGGACCCCTTCTCCGTCCCCATCCCAATCCAAGCGCTCCTGGCACT
GACGACGCCAAGAGACTCGAGTGGGAGTTAAAGCTTCCAGTGGGCGAGCAGGTGTCCAG
GCCGGGCTGCGGGTTCTGTTGACGTCTTGCCCTATGCAAAGGTCCCAGTTCCTTCTCG
GAGCCGGTGTCCCGGCCACTGGAACCCGCACCTCCCCGAGCATGGGCACCAGCCTCA
GCCCGAACGACCCTTGGCCGCTAAACCCGCTGTCCATCCAGCAGACCACGCTCCTGCTAC
TCCTGTGCGGTGCTGGCCACTGTGCATGTGGCCAGCGGCTGCTGAGGCAACGGATGCGGC
AGCTCGGGTCCGCGCCCCGGGCCGTTTGCCTGGCCACTGATCGGAAACGCGGGCGGG
TGGGCCAGGCGGCTCACCTCTCGTTCGCTCGCCTGGCGCGGCGCTACGGCGACGTTTTCC
AGATCCGCTGGGCGAGCTGCCCCATAGTGGTGTGAATGGCGAGCGGCCATCCACCATG
CCCTGGTGCAGCATGGCTCGGCCTTCGCCGACCGGCCGCTCCTTCGCTCCTTCCGTGTGG
TGTCCGGCAGCCGAGCATGGCTTTCGGCCACTACTCNGAGCACTGGAANGTGCAGCGGC
GCGCATCCACACATGATGCGCAACTTCTTACGCGCCAGCCGCGCATCCGCAAGTCTC
GAGGCCACGTGTGACCA
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000104 unedited CGGCCGCAATCTAGAATCGAGTTTTTTTTTTTTTTTTTTTGGCTGATAATTCAAATTCTGTA CTTTGGCAAGCAAAGAGGTACAACATCACCTTGGAGTTTACAATTTAATAATGCATAC TTTAAATTCATGATAAATCATGGAACCCCACTATACTCACTAATTCAACTATTGATTC TTTTGAGCAACTGACTTTATGATTTATCCTTAAAAGTAAGGAAGTATACCAGAAGGCAA AAGGATAAATCCACCCATAAATACTAGAGTCTAAGTTATTTTCTGAAAAGGTGAAAAGG GAATTTCTGGTCTTTATCTTTCCCTTATCACCTTCAATCACACACTTTACACTGAAATT ACTTGTCTGTCTCTTCAACAATATACTCTGAAACTTTGTTTAAATATACTTTTTGTCTA TTTCTGCATATGGGAGACCAATCTTGGATTCCCAACAAAATGGCCTGGTTACCAAAAATA CTTCTTCATTAGTAGTTTGGTGTAAAGTGTGGGTGTATGTGTCTATATGTGCATTTTA ACTCCAAAGAATGCTACCTTCAGAAATAACCAAGATGCAGTATGTATATAATAATTCATT GGGCCCTTAAAGTCTTTGACTCAAAAAAATCTCCAGAAGCTCCTGCATAGCCCACTAC TCATGAAGAACCCTGGGTATGGAGCACACCTCACCTGATGGACAGTTGATTTATGCTCA CCTCTAACGCNTATTGAGAAGCAGCACANAAGAAGAACTGGAAAAACTGAATTTACTC CTCATCTCGAAGATGTGATATTNTCTAAATTNNCAGCTGCCTCTTGCTTCTATAGGCAA GTTCTTGGCTGNAAATTTGAACAGACTATCAGAGCTCATGGACTTCTGANATGACATGA CTTAAATGACTGGTNAATGGTAAACATACTGNATCATTTTCCAGCTCATTGGGTGGCCTG AATCCN
Restriction Sites:	NotI-NotI
ACCN:	NM_000104
Insert Size:	2880 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
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:	<ol style="list-style-type: none"> 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:	<p>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]</p>