

Product datasheet for **SC119683**

CYP4B1 (NM_000779) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP4B1 (NM_000779) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYP4B1
Synonyms:	CYPIVB1; P-450HP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC119683 representing NM_000779.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGTGCCAGCTTCCTCTCCCTGAGCTTCTCCTCCTTGGGCTGTGGGCTTCTGGGCTGATCTTGCTC
TTAGGCTTTCTCAAGCTCATCCACTGCTGCTGCGGAGGCAGACGTTGGCTAAGGCTATGGACAAATTC
CCAGGGCCTCCACCCACTGGCTTTTGGACATGCCCTCGAGATCCAGGAGACGGGGAGCCTGGACAAA
GTGGTGTCTGGGCCACCAGTTCCTGATGCCACCCACTCTGGTTCGGACAGTTCATTGGCTTCTG
AACATCTATGAGCCTGACTATGCCAAAGCTGTGTACAGCCGTGGGGACCTAAGGCCCTGATGTGTAT
GACTTCTTCTCCAGTGGATTGGGAGAGCCCTGCTGGTCTTGAGGGGCCAAGTGGTTCGACGACCCGC
AAGCTGCTCACACCTGGCTTTCATTATGATGTGCTGAAGCCCTATGTGGCCGTGTTCACTGAGTCTACA
CGTATCATGCTGGACAAGTGGGAAGAGAAAGCTCGGGAGGGTAAGTCTTTGACATCTTCTGCGATGTG
GGTCACATGGCGCTGAACACACTCATGAAGTGCACCTTTGGAAGAGGAGACCCGGCCTGGGCCACAGG
GACAGCAGCTACTACCTGCAGTCAGCGATCTCACTCTGTTGATGCAGCAGCGCCTTGTGTCTTCCAG
TACCATAATGACTTCATCTACTGGCTCACCCACATGGCCGCGCTTCTGCGGGCTGCCAGGTGGCC
CATGACCATACAGACCAGGTCATCAGGGAGCGGAAGGCAGCCCTGCAGGATGAGAAGGTGCGGAAGAAG
ATCCGAAACCGGAGGCACCTGGACTTCTGGACATTCTCCTGGGTGCCCGGGATGAAGATGACATCAA
CTGTGAGATGCAGACCTCCGGGCTGAAGTGGACACATTCATGTTTGAAGGCCATGACACCACCAGT
GGTATCTCCTGGTTTCTACTGCATGGCCCTGTACCCTGAGCACCAGCATCGTTGTAGAGAGGAGGTC
CGCGAGATCCTAGGGGACCAGGACTTCTCCAGTGGGATGATCTGGGCAAAATGACTTATCTGACCATG
TGCATCAAGGAGAGCTTCCGCTCTACCCACTGTGCCAGGTGTACCAGCAGCTCAGCAAGCCTGTC
ACCTTTGTGGATGGCCGGTCTCTACCTGCAGGAAGCCTGATCTCTATGCATATCTATGCCCTCCATAGG
AACAGTGTGTATGGCCCGACCCTGAGGTCTTTGACTCTCTGCGCTTTTCCACTGAGAATGCATCCAAA
CGCCATCCCTTTGCCCTTATGCCCTTCTGCTGGGCCAGGAAGTGCATTGGGAGCAGTTCATGATG
AGTGAGATGAAGGTGGTACAGCCATGTGCTTGTCCGCTTTGAGTTCTCTGAGCCCTCACGGCTG
CCCATCAAGATGCCCCAGCTTGTCTGCGCTCCAAGAATGGCTTTCACCTCCACCTGAAGCCACTGGGC
CCTGGGTCTGGGAAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Chromatograms: https://cdn.origene.com/chromatograms/mk8078_a09.zip

Restriction Sites: SgfI-MluI

ACCN: NM_000779

Insert Size: 1536 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:	<u>NM_000779.2</u>
RefSeq Size:	2170 bp
RefSeq ORF:	1536 bp
Locus ID:	1580
UniProt ID:	<u>P13584</u>
Cytogenetics:	1p33
Domains:	p450
Protein Families:	Druggable Genome, P450, Transmembrane
MW:	59 kDa
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. This protein localizes to the endoplasmic reticulum. In rodents, the homologous protein has been shown to metabolize certain carcinogens; however, the specific function of the human protein has not been determined. Multiple transcript variants have been found for this gene. [provided by RefSeq, Jan 2016]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is 1 aa shorter compared to isoform a.</p>