

## Product datasheet for **SC300084**

### CYP11B2 (NM\_000498) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CYP11B2 (NM_000498) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYP11B2 (CYP11B2)
Synonyms:	ALDOS; CPN2; CYP11B; CYP11BL; CYPXIB2; P-450C18; P450aldo; P450C18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_000498 edited  
 ATGGCACTCAGGGCAAAGGCAGAGGTGTGCGTGGCAGCGCCCTGGCTGTCCCTGCAAAGG  
 GCACGGGCACTGGGCACTAGAGCCGCTCGGGCCCTAGGACGGTGTGCTGCCGTTTGAAGCC  
 ATGCCCCAGCATCCAGGCAACAGGTGGCTGAGGCTGCTGCAGATCTGGAGGGAGCAGGGT  
 TATGAGCACCTGCACCTGGAGATGCACCAGACCTTCCAGGAGCTGGGGCCATTTTCAGG  
 TACAACCTGGGAGGACCACGCATGGTGTGTGTGATGCTGCCGGAGGATGTGGAGAAGCTG  
 CAACAGGTGGACAGCCTGCATCCCTGCAGGATGATCCTGGAGCCCTGGGTGGCCTACAGA  
 CAACATCGTGGGCACAAATGTGGCGTGTCTTGTGAATGGGCCTGAATGGCGCTTCAAC  
 CGATTGCGGCTGAACCCAGATGTGCTGTCGCCAAGGCCGTGCAGAGGTTCTCCCGATG  
 GTGGATGCAGTGGCCAGGACTTCTCCAGGCCCTGAAGAAGAAGGTGCTGCAGAACGCC  
 CGGGGGAGCCTGACCCTGGACGTCCAGCCAGCATCTTCCACTACCCATAGAAGCCAGC  
 AACTTAGCTCTTTTTGGAGAGCGGCTGGCCTGGTTGGCCACAGCCCAGTTCTGCCAGC  
 CTGAACCTCCTCCATGCCCTGGAGGTCATGTTCAAATCCACCGTCCAGCTCATGTTTCATG  
 CCCAGGAGCCTGTCTCGCTGGATCAGCCCCAAGGTGTGGAAGGAGCACTTGGAGGCTGG  
 GACTGCATCTTCCAGTACGGTGACAACGTATCCAGAAAATCTACCAGGAACTGGCCTTC  
 AACCGCCCTCAACACTACACAGGCATCGTGGCGGAGCTCCTGTTGAAGGCGGAACTGTCA  
 CTAGAAGCCATCAAGGCCAATCTATGGAACCTACTGCAGGGAGCGTGGACACGACAGCG  
 TTTCCCTTGCTGATGACGCTCTTTGAGCTGGCTCGGAACCCGACGTGCAGCAGATCCTG  
 CGCCAGGAGAGCCTGGCCGCCAGCCAGCATCAGTGAACATCCCAGAAAGGCAACCACC  
 GAGCTGCCCTTGCTGCGGGCGGCCCTCAAGGAGACCTTGCAGGCTTACCCTGTGGGTCTG  
 TTTTTGGAGCGAGTGGTGGAGCTCAGACTTGGTGTTCAGAACTACCACATCCCAGCTGGG  
 ACATTGGTACAGGTTTTCTCTACTCGCTGGTGCATGCCGCCTTGTCCCGAGGCT  
 GAGCGGTATAATCCCAGCGCTGGCTAGACATCAGGGGCTCCGGCAGGAACTTCCACCAC  
 GTGCCCTTTGGCTTTGGCATGCGCCAGTGCCTCGGGCGGCCTGGCAGAGGCAGAGATG  
 CTGCTGCTGCTGCACCAGTGCCTGAAGCACTTCTGGTGGAGACACTAACTCAAGAGGAC  
 ATAAAGATGGTCTACAGTTCATATTGAGGCTGGCACGTCCCCCTCCTCACTTTCAGA  
 GCGATTAACCTAG



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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_000498
<b>Insert Size:</b>	1500 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_000498.2.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_000498.2</a> , <a href="#">NP_000489.2</a>
<b>RefSeq Size:</b>	2936 bp
<b>RefSeq ORF:</b>	1512 bp
<b>Locus ID:</b>	1585
<b>UniProt ID:</b>	<a href="#">P19099</a>
<b>Cytogenetics:</b>	8q24.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	C21-Steroid hormone metabolism, Metabolic pathways

**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. This protein localizes to the mitochondrial inner membrane. The enzyme has steroid 18-hydroxylase activity to synthesize aldosterone and 18-oxocortisol as well as steroid 11 beta-hydroxylase activity. Mutations in this gene cause corticosterone methyl oxidase deficiency. [provided by RefSeq, Jul 2008]