

Product datasheet for **SC302433**

CYP11B1 (NM_001026213) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP11B1 (NM_001026213) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYP11B1
Synonyms:	CPN1; CYP11B; FHI; P450C11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC302433 representing NM_001026213. Blue=Insert sequence Red=Cloning site Green=Tag(s)

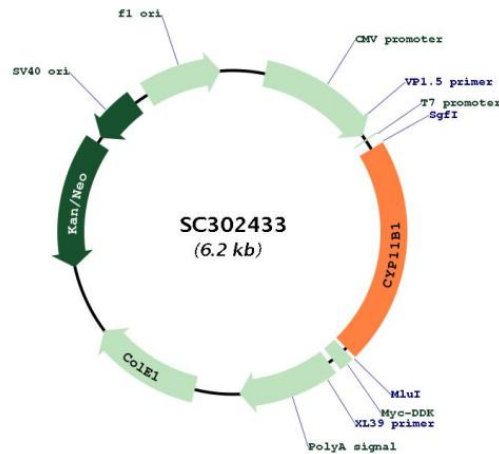
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AACAGGTGGCTGAGGCTGCTGCAGATCTGGAGGGAGCAGGTTATGAGGACCTGCACCTGGAAGTACAC
CAGACCTCCAGGAAGTGGGCCATTTTCAGGTACGACTTGGGAGGAGCAGGCATGGTGTGTGTGATG
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001026213

Insert Size: 1314 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001026213.1](#)

RefSeq Size: 3353 bp

RefSeq ORF: 1314 bp

Locus ID: 1584

UniProt ID: [P15538](#)

Cytogenetics:	8q24.3
Protein Families:	Druggable Genome, P450
Protein Pathways:	Androgen and estrogen metabolism, C21-Steroid hormone metabolism, Metabolic pathways
MW:	49.7 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 mitochondrial inner membrane and is involved in the conversion of progesterone to cortisol in the adrenal cortex. Mutations in this gene cause congenital adrenal hyperplasia due to 11-beta-hydroxylase deficiency. Transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) lacks an in-frame coding exon compared to transcript variant 1. This results in an isoform (2) that is missing a 66 aa segment compared to isoform 1.</p>