

## Product datasheet for **RG221240**

### **CYP11B1 (NM\_001026213) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CYP11B1 (NM\_001026213) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** CYP11B1  
**Synonyms:** CPN1; CYP11B; FHI; P450C11  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG221240 representing NM\_001026213  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCACTCAGGGCAAAGGCAGAGGTGTGCATGGCAGTGCCCTGGCTGTCCCTGCAAAGGGCACAGGCAC  
 TGGGCACGAGAGCCGCCCGGGTCCCCAGGACAGTGTGCCCTTTGAAGCCATGCCCGGCGTCCAGGCAA  
 CAGGTGGCTGAGGCTGCTGCAGATCTGGAGGGAGCAGGGTTATGAGGACCTGCACCTGGAAGTACACCAG  
 ACCTTCCAGGAAGTGGGCCCCATTTTCAGGTACGATTTGGGAGGAGCAGGCATGGTGTGTGTGATGCTGC  
 CGGAGGACGTGGAGAAGCTGCAACAGGTGGACAGCCTGCATCCCCACAGGATGAGCCTGGAGCCCTGGGT  
 GGCTACAGACAACATCGTGGGCACAAATGTGGCGTGTTCCTTGCTGAATGGGCCTGAATGGCGCTTCAAC  
 CGATTGCGGCTGAATCCAGAAGTGTGTGCGCCAACGCTGTGCAGAGTTCTCCCGATGGTGGATGCAG  
 TGGCCAGGGACTTCTCCAGGCCCTGAAGAAGAAGGTGTGCAGAACGCCGGGGGAGCCTGACCCTGGA  
 CGTCCAGCCCAGCATCTTCCACTACACCATAGAAGCCAGCAACTTGGCTCTTTTTGGAGAGCGGCTGGGC  
 CTGTTGGCCACAGCCCCAGTTCGCCAGCCTGAACTTCTCCATGCCCTGGAGGTCATGTTCAAATCCA  
 CCGTCCAGCTCATGTTTCATGCCCAGGAGCCTGTCTCGTGGACCAGCCCCAAGGTGTGGAAGGAGCACTT  
 TGAGGCCTGGGACTGCATCTTCCAGTACGGCGACAACCTGTATCCAGAAAATCTATCAGGAAGTGGCCTTC  
 AGCCGCCCTCAACAGTACACAGCATCGTGGCGGAGCTCCTGTTGAATGCGGAAGTGTGCGCAGATGCCA  
 TCAAGGCCAACTCTATGGAACCTACTGCAGGGAGCGTGGACACGACGGTGTTCCTTGCTGATGACGCT  
 CTTTGAGCTGGCTCGGAACCCCAACGTGCAGCAGGCCCTGCGCCAGGAGCCTGGCCGCCGAGCCAGC  
 ATCAGTGAACATCCCCAGAAGGCAACCACCGAGCTGCCCTTGCTGCGTGGGCCCTCAAGGAGACCTTGC  
 GGCTCTACCCTGTGGGTCTGTTTCTGGAGCGAGTGGCGAGCTCAGACTTGGTGTTCAGAACTACACAT  
 CCCAGTGGGGTGTGAAACACCTCCAGGTGGAGACACTAACCCAAGAGGACATAAAGATGGTCTACAGC  
 TTCATATTGAGGCCAGCATGTTCCCCCTCTCACCTTACAGCCATCAAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG221240 representing NM\_001026213  
 Red=Cloning site Green=Tags(s)

MALRAKAEVCMAYPWL SLQRAQALGTRAARVPRTVLPFEAMPRRPGNRWLRLLQIWREQGYEDLHLEVHQ  
 TFQELGPIFRYDLGGAGMVCVMLPEDVEKLQQVDSLPHHRMSLEPWWAYRQHRGHKCGVFLNGPEWRFN  
 RLRRLNPEVLSNAVQRFLPMVDAVARDFSQALKKKVLQARGSLTLDVQPSIFHYTIEASNLALFGERLG  
 LVGHSPSSASLNFHLAEVVMFKSTVQLMFMPRSLSRWTS PKVWKEHFEAWDCIFQYGDNCIQKIYQELAF  
 SRPQQYTSIVAELLLNAELSPDAIKANSMELTAGSVDDTTVFLLMTL FELARNPNVQQALRQESLAAAAS  
 ISEHPQKATTELPLLRAALKETLRLYPVGLFLERVASSDLVLQNYHIPAGVLKHLQVETLTQEDIKMVYS  
 FILRPSMFLLTFRAIN

TRTRPLE – GFP Tag – V

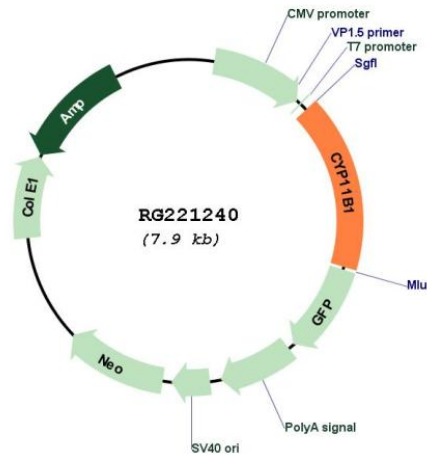
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001026213

<b>ORF Size:</b>	1311 bp
<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001026213.1</a> , <a href="#">NP_001021384.1</a>
<b>RefSeq Size:</b>	3353 bp
<b>RefSeq ORF:</b>	1314 bp
<b>Locus ID:</b>	1584
<b>UniProt ID:</b>	<a href="#">P15538</a>
<b>Cytogenetics:</b>	8q24.3
<b>Protein Families:</b>	Druggable Genome, P450
<b>Protein Pathways:</b>	Androgen and estrogen metabolism, C21-Steroid hormone metabolism, Metabolic pathways
<b>Gene Summary:</b>	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]