

## Product datasheet for **RG206930**

### **CYP27C1 (NM\_001001665) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CYP27C1 (NM_001001665) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CYP27C1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206930 representing NM_001001665 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGAAGCGTATTGAGACAAAGAATTCTGAAACCGAAAGATGTGGCCATTTATTCTGGAGAAGTCAACC  
AAGTTATTGCTGACTTAATTAAGAATCTACCTCCTCAGGAGCCAGGCAGAAGATGGAGAAACCGTGAC  
CAATGTCAATGATCTTTCTTCAAATATTCAATGGAAGGAGTGGCCACCATCCTTTATGAGAGTCGTTTTG  
GGCTGCCTGGAAAACAGCATCCACAGCTGACTGTGGAATACATCGAGGCCCTGGAGCTCATGTTTAGCA  
TGTTCAAGACCTCCATGTATGCAGGCGCCATCCCAGATGGCTTCGCCCTTCATCCCAAAGCCCTGGCC  
GGAATTCTGCAGGTCCTGGGATGGACTCTCAAATTCAGCCAAATTCATGTTGACAACAAGTTGAGGGAC  
ATACAGTACCAAATGGACCGAGGCCGAGGGTGTAGCGGGGACTTCTCACATACCTCTTCTTAGCCAGG  
CTCTGACGCTGCAGGAGATCTACGCCAACGTGACTGAGATGCTGCTGGCCGGCGTCGACACGACGTCCTT  
CACCTTGTCTGGACTGTGTACATCCTGGCAAGGCACCCAGAAGTGCAGCAGACGGTGTACCGGGAGATT  
GTGAAGAATTTAGGGAAAGGCATGTTCCAACGCAGCTGATGTCCCAAGGTCCTGGTCCAGAGCTC  
TCCTTAAGGAAACCTGAGGCTGTTTCCAGTGTGCCAGGAAACGGCCGGGTACCCAGGAAGACCTGGT  
TATTGGCGGGTATCTGATTCCGAAAGGCACCCAGCTGGCCCTTTGCCACTATGCCACATCGTACCAGGAT  
GAGAACTCCCTCGGGCAAGGAGTTCGGCCTGAGCGCTGGCTGCGGAAAGGAGACTTAGATAGAGTTG  
ACAATTTTGATCCATCCCTTTGGTCATGGGGTTCGCAGCTGCATAGGGCGGAGAAATGCAGAACTGGA  
GATTCACCTCGTCGTGATCCAGTTGCTTCAACATTTTGTAGATCAAACATCTTCTCAGACCAATGCTGTT  
CATGCAAAAACCCACGGGCTCCTGACGCCAGGGGGCCATCCACGTGCGATTTGTTAACAGAAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206930 representing NM\_001001665  
Red=Cloning site Green=Tags(s)

MRSVLRQRILKPKDVAIYSGEVNQVIADLIKRIYLLRSQAEDGETVTNVNDLFFKYSMEGVATILYESRL  
 GCLENSIPQLTVEYIEALELMFSMFKTSMYAGAIIPRWLRPFIPKPWREFCRSWDGLFKFSQIHVDNKLRD  
 IQYQMDRGRRRVSGLLTYLFLSQALTLQEIYANVTEMLLAGVDTTSF TLSWTVYILARHPEVQQTVYREI  
 VKNLGERHVPTAADVPKVPLVRALLKETLRLFPVLPNGRVRTQEDLVIGGYLIPKGTQLALCHYATSYQD  
 ENFPRAKEFRPERWLRKGDLDKRVNDFGSIPIFGHGVRSICIGRRIAELEIHLVVIQLLQHF EIKTSSQTNAV  
 HAKTHGLLTPGGPIHVRVFNRK

TRTRPLE - GFP Tag - V

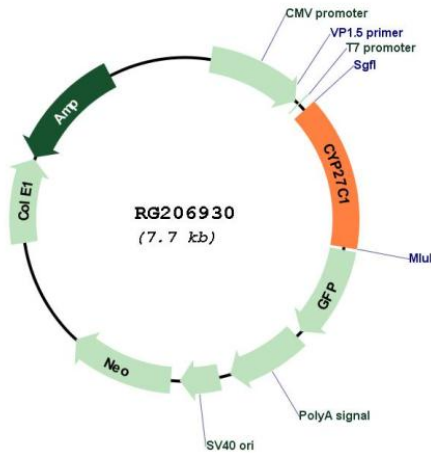
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001001665

<b>ORF Size:</b>	1116 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_001001665.2</a> , <a href="#">NP_001001665.2</a>
<b>RefSeq Size:</b>	4725 bp
<b>RefSeq ORF:</b>	1119 bp
<b>Locus ID:</b>	339761
<b>UniProt ID:</b>	<a href="#">Q4G0S4</a>
<b>Cytogenetics:</b>	2q14.3
<b>Protein Families:</b>	Druggable Genome, P450
<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. [provided by RefSeq, Jul 2008]