

## Product datasheet for **RG231201**

### Cytochrome P450 2C8 (CYP2C8) (NM\_001198854) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome P450 2C8 (CYP2C8) (NM_001198854) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CYP2C8
Synonyms:	CPC8; CYP2C8DM; CYPIIC8; MP-12/MP-20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG231201 representing NM_001198854 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTCTCCAGCCAATTGCAAAGGGAATCATTCCAGCAATGGAAGAGATGGAAGGAGATCCGGCGTT  
TCTCCCTCACAACCTTGCGGAATTTGGGATGGGAAGAGGAGCATTGAGGACCGTGTTCAGAGGAAGC  
TACTGCCTTGTGGAGGAGTTGAGAAAAACCAAGGCTTACCCTGTGATCCCACTTTCATCCTGGGCTGT  
GCTCCCTGCAATGTGATCTGCTCCGTTGTTTTCCAGAAACGATTTGATTATAAAGATCAGAATTTTCTCA  
CCCTGATGAAAAGATTCAATGAAAACCTCAGGATTCTGAACTCCCATGGATCCAGTCTGCAATAATTT  
CCCTCTACTCATTGATTGTTTCCAGGAACTCACAAACAAAGTGCTTAAAAATGTTGCTCTTACACGAAGT  
TACATTAGGGAGAAAGTAAAAGAACACCAAGCATCACTGGATGTTAACAATCCTCGGACTTTATCGATT  
GCTTCTGATCAAAATGGAGCAGGAAAAGGACAACCAAAAGTCAGAATTCATATTGAAAACCTGGTTGG  
CACTGTAGCTGATCTATTTGTTGCTGGAACAGAGACAACAAGCACCCTGAGATATGGACTCCTGCTC  
CTGCTGAAGCACCAGAGGTCACAGCTAAAGTCCAGGAAGAGATTGATCATGTAATTGGCAGACACAGGA  
GCCCTGCATGCAGGATAGGAGCCACATGCCTTACACTGATGCTGTAGTGCAGGATCCAGAGATACAG  
TGACCTTGTCCCCACCGTGTGCCCATGCAGTGACCTGATACTAAGTTCAGAAACTCCTCATCCCC  
AAGGGCACAACCAATATGGCATTACTGACTTCCGTGCTACATGATGACAAAGAATTTCTAATCCAATA  
TCTTTGACCCTGGCCACTTCTAGATAAGAATGGCAACTTTAAGAAAAGTACTACTTCATGCCTTTCTC  
AGCAGGAAAACGAATTTGTGAGGAGAAGGACTTGCCCGCATGGAGCTATTTTTATTCTAACACAATT  
TTACAGAATTTAACCTGAAATCTGTTGATGATTTAAGAACCTCAATACTACTGCGATTACCAAAGGGA  
TTGTTTCTGCCACCCTCATACCAGATCTGCTTCATCCCTGTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG231201 representing NM\_001198854  
 Red=Cloning site Green=Tags(s)

MFLQPIAKGISSNGKRWKEIRRFSLTTLRNFGMGKRSIEDRVQEEAHCLVEELRKTAKASPCDPTFILGC  
 APCNVICSVVVFQKRFDYKDQNFLTLMKRFNENFRILNSPWIQVCNNFLLIDCFPGTHNKVLKNVALTRS  
 YIREKVKEHQASLDVNNPRDFIDCFLIKMEQEKDNQKSEFNIEINLVGTVADLFFVAGTETTSTTLRYGLLL  
 LLKHPEVTAKVQEEIDHVIGRHRSPCMQDRSHMPYTDVAVVHEIQRYSDLVPTGVPHAVTTDTKFRNYLIP  
 KGTTIMALLTSVLHDDKEFPNPNIFDPGHFLDKNGNFKKSDYFMPFSAGKRICAGEGLARMELFLFLTTI  
 LQNFNLKSVDDLKLNLTAVTKGIVSLPPSYQICFIPV

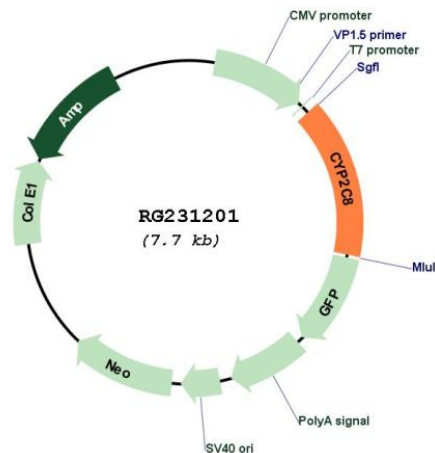
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001198854

<b>ORF Size:</b>	1164 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_001198854.1</a> , <a href="#">NP_001185783.1</a>
<b>RefSeq Size:</b>	1799 bp
<b>RefSeq ORF:</b>	1167 bp
<b>Locus ID:</b>	1558
<b>UniProt ID:</b>	<a href="#">P10632</a>
<b>Cytogenetics:</b>	10q23.33
<b>Protein Families:</b>	Druggable Genome, P450, Transmembrane
<b>Protein Pathways:</b>	Arachidonic acid metabolism, Drug metabolism - cytochrome P450, Linoleic acid metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism
<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 endoplasmic reticulum and its expression is induced by phenobarbital. The enzyme is known to metabolize many xenobiotics, including the anticonvulsive drug mephenytoin, benzo(a)pyrene, 7-ethoxycoumarin, and the anti-cancer drug taxol. This gene is located within a cluster of cytochrome P450 genes on chromosome 10q24. Several transcript variants encoding a few different isoforms have been found for this gene. [provided by RefSeq, Nov 2010]