

## Product datasheet for **RG220997**

### Cytochrome P450 2C9 (CYP2C9) (NM\_000771) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome P450 2C9 (CYP2C9) (NM_000771) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cytochrome P450 2C9
Synonyms:	CPC9; CYP2C; CYP2C10; CYPIIC9; P450IIC9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG220997 representing NM\_000771  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGATTCTCTTGTGGTCTTGTGCTCTGTCTCTCATGTTTGCTTCTCCTTTCACTCTGGAGACAGAGCT  
 CTGGGAGAGGAAAACCTCCTCGGCCACTCCTCTCCAGTGATTGGAAATATCTACAGATAGGTAT  
 TAAGGACATCAGCAAATCCTTAACCAATCTCTCAAAGGTCATGGCCCGGTGTTCACTCTGTATTTTGGC  
 CTGAAACCCATAGTGGTCTGCATGGATATGAAGCAGTGAAGGAAGCCCTGATTGATCTTGGAGAGGAGT  
 TTTCTGGAAGAGGCATTTTCCCACTGGCTGAAAGAGCTAACAGAGGATTTGGAATTGTTTTAGCAATGG  
 AAAGAAATGGAAGGAGATCCGGCGTTTCTCCCTCATGACGCTGCGGAATTTGGGATGGGAAGAGGAGC  
 ATTGAGGACCGTGTCAAGAGGAAGCCCGCTGCCTTGTGGAGGAGTTGAGAAAAACCAAGGCCTCACCT  
 GTGATCCCACTTTCATCCTGGGCTGTGCTCCCTGCAATGTGATCTGCTCCATTATTTCCATAAACGTTT  
 TGATTATAAAGATCAGCAATTTCTTAACCTAATGAAAAGTTGAATGAAAACATCAAGATTTTGAGCAGC  
 CCTGGATCCAGATCTGCAATAATTTTCTCCTATCATTGATTACTTCCCGGGAACCTCACAACAAAATTAC  
 TAAAAACGTTGCTTTTATGAAAAGTTATATTTGGAAAAAGTAAAAGAACCAAGAATCAATGGACAT  
 GAACAACCTCAGGACTTTATTGATTGCTTCTGATGAAAATGGAGAAGGAAAAGCACAACCAACCATCT  
 GAATTTACTATTGAAAGCTTGGAAAACACTGCAGTTGACTTGTGGAGCTGGGACAGAGACGACAAGCA  
 CAACCTGAGATATGCTCTCCTTCTCCTGCTGAAGCACCAGAGGTCACAGCTAAAGTCCAGGAAGAGAT  
 TGAACGTGTGATTGGCAGAAACCGAGCCCTGCATGCAAGACAGGAGCCACATGCCCTACACAGATGCT  
 GTGGTGCACGAGGTCCAGAGATACATTGACCTTCTCCCAACAGCCTGCCCATGCAGTGACCTGTGACA  
 TTAATTCAGAACTATCTCATTCCCAAGGGCACAACCATATTAATTTCCCTGACTTCTGTGCTACATGA  
 CAACAAAGAATTTCCAACCCAGAGATGTTTGACCCTCATCACTTCTGGATGAAGGTGGCAATTTTAAG  
 AAAAGTAAATACTTCATGCCTTCTCAGCAGGAAAACGGATTTGTGTGGGAGAAGCCCTGCCGGCATGG  
 AGCTGTTTTTATTCTGACCTCCATTTACAGAACTTTAACCTGAAATCTCTGGTTGACCCAAAGAACCT  
 TGACACCACTCCAGTTGTCAATGGATTTGCCTCTGTGCCCTTCTACCAGCTGTGCTTATTCTCTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG220997 representing NM\_000771  
 Red=Cloning site Green=Tags(s)

MDSLVLVLCVLSCLLLSLWRQSSGRGKLPVIGNILQIGIKDISKSLTNLSKVYGPVFTLYFG  
 LKPIVVLHGVEAVKEALIDLGEFSGRGIFPLAERANRFGIVFVSNKKWKEIRRFSLMTRLNFMGKRS  
 IEDRVQEEARCLVEELRKTAKSPDPTFILGCAPCNVICSIIIFHKRFDYKDQQLNLMKLNENIKILSS  
 PWIQCNNFSPIIDYFPGTHNKLLKNVAFMKSYLEKVKHEHQSMDMNNPQDFIDCFMKMEKEKHNPQS  
 EFTIESLENTAVDLFGAGTETTSTLRYALLLLKHPEVTAQVQEEIERVIGRNRSPCMQDRSHMPYTD  
 VVHEVQRYIDLLPTSLPHAVTCDIKFRNYLIPKGTTLISLTSVLHDNKEFPNPEMFDPHHFLDEGNNFK  
 KSKYFMPFSAGKRICVGEALAGMELFLFTSILQFNKSLVDPKNDLTPVNVNGFASVPPFYQLCFIPV

TRTRPLE - GFP Tag - V

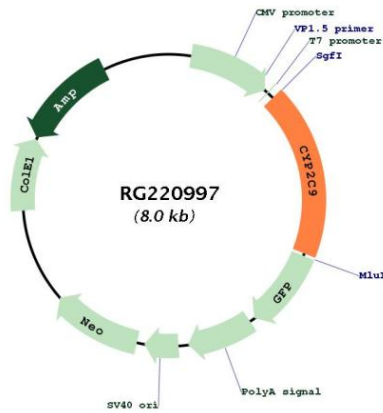
**Restriction Sites:**

Sgfl-Mlul



RefSeq:	<a href="#">NM_000771.2</a> , <a href="#">NP_000762.2</a>
RefSeq Size:	1835 bp
RefSeq ORF:	1473 bp
Locus ID:	1559
UniProt ID:	<a href="#">P11712</a>
Cytogenetics:	10q23.33
Domains:	p450
Protein Families:	Druggable Genome, P450
Protein Pathways:	Arachidonic acid metabolism, Drug metabolism - cytochrome P450, Linoleic acid metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism
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 endoplasmic reticulum and its expression is induced by rifampin. The enzyme is known to metabolize many xenobiotics, including phenytoin, tolbutamide, ibuprofen and S-warfarin. Studies identifying individuals who are poor metabolizers of phenytoin and tolbutamide suggest that this gene is polymorphic. The gene is located within a cluster of cytochrome P450 genes on chromosome 10q24. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG220997