

## Product datasheet for **RC204605**

### Cytochrome P450 2C8 (CYP2C8) (NM\_000770) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome P450 2C8 (CYP2C8) (NM_000770) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cytochrome P450 2C8
Synonyms:	CPC8; CYP2C8DM; CYPIIC8; MP-12/MP-20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC204605 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAACCTTTTGTGGTCTGGTCTGTGTCTCTCTTTTATGCTTCTCTTTTCACTCTGGAGACAGAGCT  
 GTAGGAGAAGGAAGCTCCCTCCTGGCCCCACTCCTCTTCTATTATTGGAATATGCTACAGATAGATGT  
 TAAGGACATCTGCAAATCTTTCACCAATTTCTCAAAGTCTATGGTCTGTGTTACCGGTATTTTGGC  
 ATGAATCCCATAGTGGTGTTCATGGATATGAGTCAGTGAAGGAAGCCCTGATTGATAATGGAGAGGAGT  
 TTTCTGGAAGAGGCAATCCCAATATCTCAAAGAATTACTAAAGGACTTGGAAATCATTTCCAGCAATGG  
 AAAGAGATGGAAGGAGATCCGGCGTTTCTCCCTCACACCTTGCAGGAATTTGGGATGGGGAAGAGGAGC  
 ATTGAGGACCGTGTCAAGAGGAAGCTCACTGCCTTGTGGAGGAGTTGAGAAAAACCAAGGCTTCCACCT  
 GTGATCCCACTTTCATCCTGGGCTGTGCTCCCTGCAATGTGATCTGCTCCGTTGTTTTCCAGAAACGATT  
 TGATTATAAAGATCAGAATTTTCTCACCTGATGAAAAGATTCAATGAAAACCTCAGGATTCTGAACTCC  
 CCATGGATCCAGTCTGCAATAATTTCCCTCTACTCATTGATTGTTTCCAGGAACCTCACAAACAAAGTGC  
 TAAAAATGTTGCTCTTACACGAAGTTACATTAGGGAGAAAAGTAAAAGAACCAAGCATCACTGGATGT  
 TAACAATCCTCGGGACTTTATCGATTGCTTCTGATCAAATGGAGCAGGAAAAGGACAACCAAAAGTCA  
 GAATTCATATTGAAAACCTGGTTGGCACTGTAGCTGATCTATTTGTTGCTGGAACAGAGACAACAAGCA  
 CCACTCTGAGATATGGACTCCTGCTCCTGCTGAAGCACCAGAGGTCACAGCTAAAGTCCAGGAAGAGAT  
 TGATCATGTAATTGGCAGACACAGGAGCCCTGCATGCAGGATAGGAGCCACATGCCTTACACTGATGCT  
 GTAGTGCACGAGATCCAGAGATACAGTGACCTTGTCCCACCGGTGTGCCCATGCAGTGACCCTGATA  
 CTAAGTTCAGAACTACCTCATCCCCAAGGGCACCAACATAATGGCATTACTGACTCCGTGCTACATGA  
 TGACAAAGAATTTCTAATCCAAATATCTTTGACCTGGCCACTTCTAGATAAGAATGGCAACTTTAAG  
 AAAAGTGACTACTTATGCCTTTCTCAGCAGGAAAACGAATTTGTGCAGGAGAAGGACTTCCCCGATGG  
 AGCTATTTTTATTTCTAACCACAATTTTACAGAACTTTAACCTGAAATCTGTTGATGATTTAAAGAACCT  
 CAATACTACTGCAGTTACCAAAGGGATTGTTTCTCTGCCACCCTCATACCAGATCTGCTTCATCCCTGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC204605 protein sequence  
 Red=Cloning site Green=Tags(s)

MEPFVVLVLCVLFSLWRQSCRRLPPGPTPLPIIGNMLQIDVKDICKSFTNFSKVYGPVFTVYFG  
 MNPIVVFHGYESVKEALIDNGEEFSGRGNPISQRITKGLGISSNGKRWKEIRRFSLTTLRNFNGMKRS  
 IEDRVQEEAHCLVEELRKTAKSPCDPTFILGCAPCNVICSVVVFQKRFQDYKDQNFLLMKRFNENFRILNS  
 PWIQVCNNFPLLIDCFPGTHNKVLKNVALTRSYIREKVKEHQASLDVNNPRDFIDCFLIKMEQEKDNQKS  
 EFNIENLVGTVADLFVAGTETTSTTLRYGLLLLLKHPEVTAKVQEEIDHVIHRHRSPCMQDRSHMPYTD  
 VVHEIQRYSDLVPTGVPHAVTTDTKFRNYLIPKGTIMALLTSVLHDDKEFPNPNIFDPGHFLDKNGNFK  
 KSDYFMPFSAGKRICAGEGLARMELFLFTTILQNFNLKSVDDLKLNLTAVTKGIVSLPPSYQICFIPV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6068\\_g11.zip](https://cdn.origene.com/chromatograms/mk6068_g11.zip)

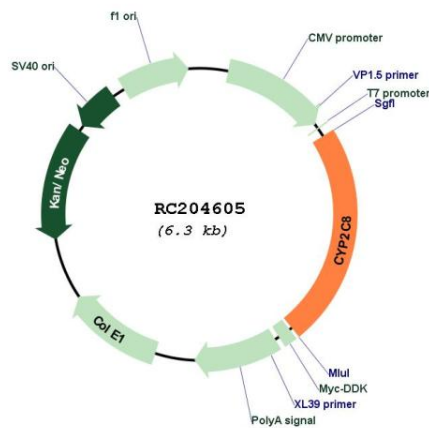
**Restriction Sites:**

Sgfl-MluI

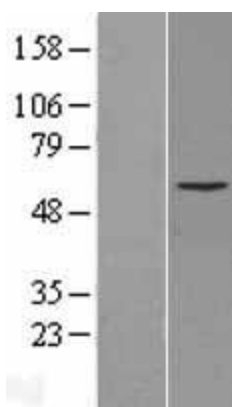


<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_000770.3</a> , <a href="#">NP_000761.3</a>
<b>RefSeq Size:</b>	1924 bp
<b>RefSeq ORF:</b>	1473 bp
<b>Locus ID:</b>	1558
<b>UniProt ID:</b>	<a href="#">P10632</a>
<b>Cytogenetics:</b>	10q23.33
<b>Domains:</b>	p450
<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>MW:</b>	55.8 kDa
<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]

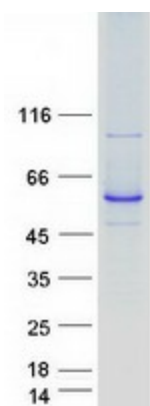
### Product images:



Circular map for RC204605



Western blot validation of overexpression lysate (Cat# [LY400261]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204605 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CYP2C8 protein (Cat# [TP304605]). The protein was produced from HEK293T cells transfected with CYP2C8 cDNA clone (Cat# RC204605) using MegaTran 2.0 (Cat# [TT210002]).