

## Product datasheet for **RC232690**

### Cytochrome P450 2C8 (CYP2C8) (NM\_001198855) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome P450 2C8 (CYP2C8) (NM_001198855) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CYP2C8
Synonyms:	CPC8; CYP2C8DM; CYP1IC8; MP-12/MP-20
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232690 representing NM_001198855 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAATCCCATAGTGGTGTTCATGGATATGAGGCAGTGAAGGAAGCCCTGATTGATAATGGAGAGGAGT  
TTTCTGGAAGAGGCAATCCCAATATCTCAAAGAATTACTAAAGGACTTGAATCATTTCCAGCAATGG  
AAAGAGATGGAAGGAGATCCGGCGTTTCTCCCTCACACCTTGCGGAATTTGGGATGGGAAGAGGAGC  
ATTGAGGACCGTGTCAAGAGGAAGCTCACTGCCTTGTGGAGGAGTTGAGAAAAACCAAGCCTTCACCT  
GTGATCCCACTTTCATCCTGGGCTGTGCTCCCTGCAATGTGATCTGCTCCGTTGTTTTCCAGAAACGATT  
TGATTATAAAGATCAGAATTTTCTCACCTGATGAAAAGATTCAATGAAAACCTCAGGATTCTGAACTCC  
CCATGGATCCAGGTCTGCAATAATTTCCCTCTACTCATTGATTGTTTCCAGGAACTCACAACAAAGTGC  
TAAAAATGTTGCTCTTACACGAAGTTACATTAGGGAGAAAGTAAAAGAACCAAGCATCACTGGATGT  
TAACAATCCTCGGGACTTATCGATTGCTTCTGATCAAAATGGAGCAGGAAAAGGACAACCAAAAGTCA  
GAAATCAATATTGAAAACCTGGTTGGCACTGTAGCTGATCTATTTGTTGCTGGAACAGAGACAACAAGCA  
CCACTCTGAGATATGGACTCCTGCTCCTGCTGAAGCACCCAGAGGTACAGCTAAAGTCCAGGAAGAGAT  
TGATCATGTAATTGGCAGACACAGGAGCCCTGCATGCAGGATAGGAGCCACATGCCTTACACTGATGCT  
GTAGTGCACGAGATCCAGAGATACAGTGACCTGTCCCCACCGGTGTGCCCATGCACTGACCACTGATA  
CTAAGTTCAGAACTACCTCATCCCAAGGGCACAACCATAATGGCATTACTGACTTCCGTGCTACATGA  
TGACAAAGAATTTCTAATCCAAATATCTTTGACCCTGGCCACTTTCTAGATAAGAATGGCAACTTTAAG  
AAAAGTGACTACTTCATGCCTTCTCAGCAGGAAAACGAATTTGTGCAGGAGAAGGACTTGCCCGCATGG  
AGCTATTTTTATTTAACCACAATTTACAGAACTTTAACCTGAAATCTGTTGATGATTTAAAGAACCT  
CAATACTACTGCAGTTACCAAAGGGATTGTTTCTGCCACCCTCATACCAGATCTGCTTCATCCCTGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC232690 representing NM\_001198855  
Red=Cloning site Green=Tags(s)

MNPIVVFHGYEAVKEALIDNGEEFSGRGNPISQIRITKGLGISSNGKRWKEIRRFSLTTLRNFNGMGKRS  
 IEDRVQEEAHCLVEELRKTASPDPF ILGCAPCNVICSVVVFQKRFDYKDQNFL TLMKRFNENFRILNS  
 PWIQVCNNFPLLIDCFPGTHNKVLKNVALTRSYIREKVKHQASLDVNNPRDFIDCFLIKMEQEKDNQKS  
 EFNIENLVGTVADLFVAGTETTSTTLRYGLLLLLLKHPEVTAKVQEEIDHVIGRHRSPCMQDRSHMPYTD  
 VVHEIQRYSDLVPTGVPHAVTTDTKFRNYLIPKGTTIMALLTSVLHDDKEFPNPNIFDPGHFLDKNGNFK  
 KSDYFMPFSAGKRICAGEGLARMELFLFTTILQNFNLKSVDDLKLNLTAVTKGIVSLPPSYQICFIPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

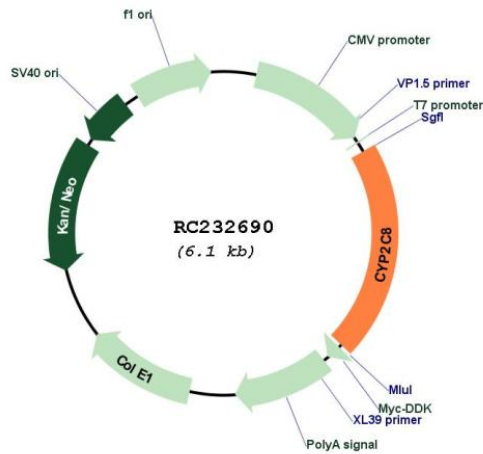
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001198855

<b>ORF Size:</b>	1260 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_001198855.1</a> , <a href="#">NP_001185784.1</a>
<b>RefSeq Size:</b>	2024 bp
<b>RefSeq ORF:</b>	1263 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>MW:</b>	48.2 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]