

## Product datasheet for TP304605L

### Cytochrome P450 2C8 (CYP2C8) (NM\_000770) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human cytochrome P450, family 2, subfamily C, polypeptide 8 (CYP2C8), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204605 protein sequence Red=Cloning site Green=Tags(s)

MEPFVVLVLCLSFMLLFSWLWRQSCRRRKLPPGPTPLPIIGNMLQIDVKDICKSFTNFSKVYGPVFTVYFG  
MNPVVVHGYESVKEALIDNGEEFSGRGNPISQRITKGLGISSNGKRWKEIRRFSLTTLRNFNGMGKRS  
IEDRVQEEAHCLVEELRKTASPDPFILGCAPCNVICSVVFQKRFDYKDQNFLTLMKRFNENFRILNS  
PWIQVCNNFPLLDICFPGTHNKVLKNVALTRSYIREKVEHQASLDVNNPRDFIDCFLIKMEQEKDNQKS  
EFNIENLVGTVADLFVAGTETTSTTLRYGLLLLLKHPEVTAKVQEEIDHVIGRHRSPCMQDRSHMPYTDA  
VVHEIQRYSDLVPTGVPHAVTTDTKFRNYLIPKGTTIMALLTSVLHDDKEFPNPNIFDPGHFLDKNGNFK  
KSDYFMPFSAGKRICAGEGLARMELFLTLTILQNFNLKSVDDLKLNLTAVTKGIVSLPPSYQICFIPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	55.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_000761](#)

Locus ID: 1558

UniProt ID: [P10632](#)

RefSeq Size: 1924

Cytogenetics: 10q23.33

RefSeq ORF: 1470

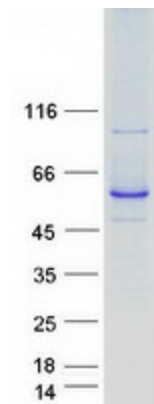
Synonyms: CPC8; CYP2C8DM; CYP1IC8; MP-12/MP-20

**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 phenobarbital. The enzyme is known to metabolize many xenobiotics, including the anticonvulsive drug mephenytoin, benzo(a)pyrene, 7-ethoxy coumarin, 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]

**Protein Families:** Druggable Genome, P450, Transmembrane

**Protein Pathways:** Arachidonic acid metabolism, Drug metabolism - cytochrome P450, Linoleic acid metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism

### Product images:



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]).