

## **Product datasheet for PH320997**

## OriGene Technologies, Inc.

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## Cytochrome P450 2C9 (CYP2C9) (NM 000771) Human Mass Spec Standard

**Product data:** 

**Product Type:** Mass Spec Standards

**Description:** CYP2C9 MS Standard C13 and N15-labeled recombinant protein (NP\_000762)

Species: Human **HEK293 Expression Host: Expression cDNA Clone** 

RC220997

or AA Sequence: Predicted MW:

55.4 kDa

>RC220997 representing NM\_000771 **Protein Sequence:** 

Red=Cloning site Green=Tags(s)

MDSLVVLVLCLSCLLLLSLWRQSSGRGKLPPGPTPLPVIGNILQIGIKDISKSLTNLSKVYGPVFTLYFG LKPIVVLHGYEAVKEALIDLGEEFSGRGIFPLAERANRGFGIVFSNGKKWKEIRRFSLMTLRNFGMGKRS IEDRVQEEARCLVEELRKTKASPCDPTFILGCAPCNVICSIIFHKRFDYKDQQFLNLMEKLNENIKILSS PWIQICNNFSPIIDYFPGTHNKLLKNVAFMKSYILEKVKEHQESMDMNNPQDFIDCFLMKMEKEKHNQPS EFTIESLENTAVDLFGAGTETTSTTLRYALLLLLKHPEVTAKVQEEIERVIGRNRSPCMQDRSHMPYTDA VVHEVQRYIDLLPTSLPHAVTCDIKFRNYLIPKGTTILISLTSVLHDNKEFPNPEMFDPHHFLDEGGNFK KSKYFMPFSAGKRICVGEALAGMELFLFLTSILQNFNLKSLVDPKNLDTTPVVNGFASVPPFYQLCFIPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

C-Myc/DDK Tag:

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration: >0.05 µg/µL as determined by microplate BCA method

**Labeling Method:** Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3

Store at -80°C. Avoid repeated freeze-thaw cycles. Storage:

Stable for 3 months from receipt of products under proper storage and handling conditions. Stability:

RefSeq: NP 000762

RefSeg Size: 1835 RefSeq ORF: 1470

CPC9; CYP2C; CYP2C10; CYPIIC9; P450IIC9 Synonyms:





Locus ID: 1559

**UniProt ID:** P11712, S5RV20

Cytogenetics: 10q23.33

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

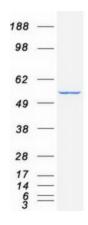
P450 genes on chromosome 10q24. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, P450

Arachidonic acid metabolism, Drug metabolism - cytochrome P450, Linoleic acid metabolism, **Protein Pathways:** 

Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism

## **Product images:**



Coomassie blue staining of purified CYP2C9 protein (Cat# [TP320997]). The protein was produced from HEK293T cells transfected with CYP2C9 cDNA clone (Cat# [RC220997]) using

MegaTran 2.0 (Cat# [TT210002]).