

## **Product datasheet for PH314234**

## OriGene Technologies, Inc.

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## CYP2A7 (NM\_030589) Human Mass Spec Standard

**Product data:** 

**Product Type:** Mass Spec Standards

**Description:** CYP2A7 MS Standard C13 and N15-labeled recombinant protein (NP\_085079)

Species: Human

Expression Host: HEK293

Expression cDNA Clone RC214234

Expression cDNA Clone or AA Sequence:

ne RCZ12

Predicted MW:

50.5 kDa

Protein Sequence: >RC214234 representing NM\_030589

Red=Cloning site Green=Tags(s)

MLASGLLLVALLACLTVMVLMSVWQQRKSRGKLPPGPTPLPFIGNYLQLNTEHICDSIMKVSQGVAFSNG ERAKQLLRFAIATLRDFGVGKRGIEERIQEESGFLIEAIRSTHGANIDPTFFLSRTVSNVISSIVFGDRF DYEDKEFLSLLSMMLGIFQFTSTSTGQLYEMFSSVMKHLPGPQQQAFKLLQGLEDFIAKKVEHNQRTLDP NSPQDFIDSFLIHMQEEEKNPNTEFYLKNLMMSTLNLFIAGTETVSTTLRYGFLLLMKHPEVEAKVHEEI DRVIGKNRQPKFEDRTKMPYMEAVIHEIQRFGDVIPMSLARRVKKDTKFRDFFLPKGTEVFPMLGSVLRD PSFFSNPQDFNPQHFLDDKGQFKKSDAFVPFSIGKRNCFGEGLARMELFLFFTTVMQNFRLKSSQSPKDI

DVSPKHVVFATIPRNYTMSFLPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

**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

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

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

RefSeq: NP 085079

RefSeq Size: 2128 RefSeq ORF: 1329

Synonyms: CPA7; CPAD; CYP2A; CYPIIA7; P450-IIA4



**Locus ID:** 1549

UniProt ID: <u>P20853</u>, <u>F8W816</u>

Cytogenetics: 19q13.2

Summary: This gene encodes a member of the cytochrome P450 superfamily of enzymes. The

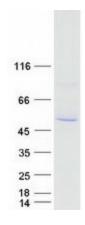
cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum; its substrate has not yet been determined. This gene, which produces two transcript variants, is part of a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q. [provided by RefSeq, Jul 2008]

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

Protein Pathways: Caffeine metabolism, Drug metabolism - cytochrome P450, Drug metabolism - other

enzymes, Metabolic pathways, Retinol metabolism

## **Product images:**



Coomassie blue staining of purified CYP2A7 protein (Cat# [TP314234]). The protein was produced from HEK293T cells transfected with CYP2A7 cDNA clone (Cat# [RC214234]) using MegaTran 2.0 (Cat# [TT210002]).