

## **Product datasheet for TP309042L**

### OriGene Technologies, Inc.

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## Cytochrome P450 17A1 (CYP17A1) (NM\_000102) Human Recombinant Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human cytochrome P450, family 17, subfamily A, polypeptide 1

(CYP17A1), 1 mg

Species: Human
Expression Host: HEK293T

**Expression cDNA Clone** >RC209042 representing NM\_000102

or AA Sequence: Red=Cloning site Green=Tags(s)

MWELVALLLLTLAYLFWPKRRCPGAKYPKSLLSLPLVGSLPFLPRHGHMHNNFFKLQKKYGPIYSVRMGT KTTVIVGHHQLAKEVLIKKGKDFSGRPQMATLDIASNNRKGIAFADSGAHWQLHRRLAMATFALFKDGDQ KLEKIICQEISTLCDMLATHNGQSIDISFPVFVAVTNVISLICFNTSYKNGDPELNVIQNYNEGIIDNLS KDSLVDLVPWLKIFPNKTLEKLKSHVKIRNDLLNKILENYKEKFRSDSITNMLDTLMQAKMNSDNGNAGP DQDSELLSDNHILTTIGDIFGAGVETTTSVVKWTLAFLLHNPQVKKKLYEEIDQNVGFSRTPTISDRNRL LLLEATIREVLRLRPVAPMLIPHKANVDSSIGEFAVDKGTEVIINLWALHHNEKEWHQPDQFMPERFLNP AGTQLISPSVSYLPFGAGPRSCIGEILARQELFLIMAWLLQRFDLEVPDDGQLPSLEGIPKVVFLIDSFK

VKIKVRQAWREAQAEGST

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV** 

Tag: C-Myc/DDK

**Predicted MW:** 57.2 kDa

**Concentration:**  $>0.05 \mu g/\mu L$  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.





#### Cytochrome P450 17A1 (CYP17A1) (NM\_000102) Human Recombinant Protein - TP309042L

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** NP 000093

**Locus ID:** 1586

UniProt ID: <u>P05093</u>, <u>Q1HB44</u>

RefSeq Size: 1755

Cytogenetics: 10q24.32

RefSeq ORF: 1524

Synonyms: CPT7; CYP17; P450C17; S17AH

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

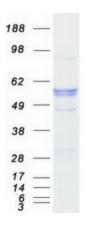
cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum. It has both 17alpha-hydroxylase and 17,20-lyase activities and is a key enzyme in the steroidogenic pathway that produces progestins, mineralocorticoids, glucocorticoids, androgens, and estrogens. Mutations in this gene are associated with isolated steroid-17 alpha-hydroxylase deficiency, 17-alpha-hydroxylase/17,20-lyase deficiency,

pseudohermaphroditism, and adrenal hyperplasia. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, P450

**Protein Pathways:** C21-Steroid hormone metabolism, Metabolic pathways

# **Product images:**



Coomassie blue staining of purified CYP17A1 protein (Cat# [TP309042]). The protein was produced from HEK293T cells transfected with CYP17A1 cDNA clone (Cat# [RC209042]) using MegaTran 2.0 (Cat# [TT210002]).