

## **Product datasheet for TP305890M**

#### OriGene Technologies, Inc.

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### Aromatase (CYP19A1) (NM\_000103) Human Recombinant Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Purified recombinant protein of Human cytochrome P450, family 19, subfamily A, polypeptide

1 (CYP19A1), transcript variant 1, full length, with C-terminal MYC/DDK tag, expressed in

HEK293 cells, 100 µg

Species: Human Expression Host: HEK293

**Expression cDNA Clone** >RC205890 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MVLEMLNPIHYNITSIVPEAMPAATMPVLLLTGLFLLVWNYEGTSSIPGPGYCMGIGPLISHGRFLWMGI GSACNYYNRVYGEFMRVWISGEETLIISKSSSMFHIMKHNHYSSRFGSKLGLQCIGMHEKGIIFNNNPEL WKTTRPFFMKALSGPGLVRMVTVCAESLKTHLDRLEEVTNESGYVDVLTLLRRVMLDTSNTLFLRISLDE SAIVVKIQGYFDAWQALLIKPDIFFKISWLYKKYEKSVKDLKDAIEVLIAEKRRRISTEEKLEECMDFAT ELILAEKRGDLTRENVNQCILEMLIAAPDTMSVSLFFMLFLIAKHPNVEEAIIKEIQTVIGERDIKIDDI QKLKVMENFIYESMRYQPVVDLVMRKALEDDVIDGYPVKKGTNIILNIGRMHRLEFFPKPNEFTLENFAK NVPYRYFQPFGFGPRGCAGKYIAMVMMKAILVTLLRRFHVKTLQGQCVESIQKIHDLSLHPDETKNMLEM

IFTPRNSDRCLEH

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV** 

Tag: C-Myc/DDK
Predicted MW: 57.7 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.





#### Aromatase (CYP19A1) (NM\_000103) Human Recombinant Protein - TP305890M

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 000094

**Locus ID:** 1588

UniProt ID: <u>P11511</u>, <u>A0A024R5S8</u>, <u>Q8TCA4</u>, <u>Q8IYG4</u>

RefSeq Size: 4422 Cytogenetics: 15q21.2 RefSeq ORF: 1509

Synonyms: ARO; ARO1; CPV1; CYAR; CYP19; CYPXIX; P-450AROM

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

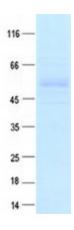
cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and catalyzes the last steps of estrogen biosynthesis. Mutations in this gene can result in either increased or decreased aromatase activity; the associated phenotypes suggest that estrogen functions both as a sex steroid hormone and in growth or differentiation. Alternative promoter use and alternative splicing results in multiple transcript

variants that have different tissue specificities. [provided by RefSeq, Dec 2016]

**Protein Families:** Druggable Genome, P450

**Protein Pathways:** Androgen and estrogen metabolism, Metabolic pathways

# **Product images:**



Coomassie blue staining of purified CYP19A1 protein (Cat# [TP305890]). The protein was produced from HEK293T cells transfected with CYP19A1 cDNA clone (Cat# [RC205890]) using MegaTran 2.0 (Cat# [TT210002]).