

## Product datasheet for PH306423

### CYP4F12 (NM\_023944) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CYP4F12 MS Standard C13 and N15-labeled recombinant protein (NP_076433)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206423
Predicted MW:	60.3 kDa
Protein Sequence:	>RC206423 protein sequence Red=Cloning site Green=Tags(s)

MSLLSLPWLGLRPVAMSPWLLLLLVVGSWLLARILAWTYAFYNNCRRLQCFPQPPKRNWFWGHLGLITPT  
EEGLKDSTQMSATYSQGFTVWLGPIIPFIVLCHPDTIRSITNASAAIAPKDNLFIRFLKPWLGEILLSG  
GDKWSRHRMLTPAFHFNILKSYITIFNKSANIMLDKWQHLASEGSSCLDMFEHISLMTLDLQKCFISF  
DSHCQERPSEYIATILELSALVEKRSQHILQHMDFLYYLSHDGRRFHRACRLVHDFDAVIRERRRRLPT  
QGIDDFKDKAKSKTLDLFDVLLSKDEDEGKALSDEDIRAEADTFMFGGHDTTASGLSWVLYNLRHPEY  
QERCRCQEVQELLKDRDPKEIEWDDLAQLPFLTMCVKESLRLHPPAPFISRCCTQDIVLPDGRVIPKGITC  
LIDIIGVHHNPTVWPDPEVYDPFRFDPENSKGRSPLAFIPFSAGPRNCIGQAFAMAEMKVVLALMLLHFR  
FLPDHTEPRRKLLELIMRAEGLWLRVEPLNVSLQ

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<a href="#">NP_076433</a>
RefSeq Size:	1783
RefSeq ORF:	1572



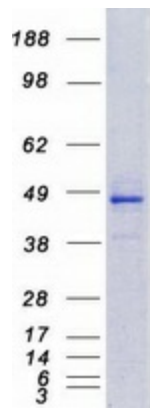
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**Synonyms:** CYP1VF12; F22329\_1  
**Locus ID:** 66002  
**UniProt ID:** [Q9HCS2](#)  
**Cytogenetics:** 19p13.12

**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 likely localizes to the endoplasmic reticulum. When expressed in yeast the enzyme is capable of oxidizing arachidonic acid. It can also catalyze the epoxidation of 22:6n-3 and 22:5n-3 polyunsaturated long-chain fatty acids. This gene is part of a cluster of cytochrome P450 genes on chromosome 19. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]

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

### Product images:



Coomassie blue staining of purified CYP4F12 protein (Cat# [TP306423]). The protein was produced from HEK293T cells transfected with CYP4F12 cDNA clone (Cat# [RC206423]) using MegaTran 2.0 (Cat# [TT210002]).