

# Product Information

## MemDX™ Membrane Protein Human CYP4F3 (Cytochrome P450 family 4 subfamily F member 3) Full Length

Cat. No.: **MPC4717K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human CYP4F3 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### Host Species

Human

#### Target Protein

CYP4F3

#### Protein Length

Full length

#### Protein Class

Oxidoreductase

#### TMD

1

#### Sequence

MPQLSSLGLWPMAASPWLLLLLVGASWLLARILAWTYTFYDNCCRLRC  
FPQPPKRNWFLGHLGLIHSSEGLLYTQSLACTFGDMCCWWVGPWHAIVR  
IFHPTYIKPVLFAPAAIVPKDKVFYSFLKPWLGDGLLSAGEKWSRHRRM  
LTPAFHFNILKPYPMKIFNESVNIMHAKWQLLASEGSARLDMFEHISLMTL  
DSLQKCVFSFDSHCQEKPSEYIAAILELSALVTKRHQQILLYIDFLYYLT  
PDGQRFRRACRLVHDFTDAVIQERRRTLPSQGVDDFLQAKAKSKTLDFID  
VLLLSKDEDGKKLSDEDIRAEADTFMFEGHDTTASGLSWVLYHLAKHPEY  
QERCRQEVQELLKDREPKEIEWDDLAQLPFLTMCIKESRLHPPVPAVSR  
CCTQDIVLPDGRVIPKGIICLISVFGTHHNPVWPDPVEYDPFRFDPKNI  
KERSPLAFIPFSAGPRNCIGQAFAMAEMKVVLGLTLLRFRVLPDHTEPRR  
KPELVLR AEGGLWLRVEPLS

### Product Description

#### Expression Systems

HEK293

#### Tag

Based on specific requirements

**Protein Format**

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

**Form**

Liquid

**Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

**Target****Target Protein**

CYP4F3

**Full Name**

Cytochrome P450 family 4 subfamily F member 3

**Introduction**

This gene, CYP4F3, 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. The enzyme starts the process of inactivating and degrading leukotriene B<sub>4</sub>, a potent mediator of inflammation. This gene is part of a cluster of cytochrome P450 genes on chromosome 19. Another member of this family, CYP4F8, is approximately 18 kb away. Several transcript variants encoding two different isoforms have been found for this gene.

**Alternative Names**

CYP4F3; CPF3; CYP4F; LTB<sub>4</sub>H; CYP4F3; cytochrome P450 4F3; 20-HETE synthase; 20-hydroxyeicosatetraenoic acid synthase; cytochrome P-450; cytochrome P450, family 4, subfamily F, polypeptide 3; cytochrome P450, subfamily IVF, polypeptide 3 (leukotriene B<sub>4</sub> omega hydroxylase); cytochrome P450-LTB-omega; docosahexaenoic acid omega-hydroxylase CYP4F3; leukotriene B<sub>4</sub> omega hydroxylase; leukotriene-B(4) 20-monooxygenase 2; leukotriene-B(4) omega-hydroxylase 2; leukotriene-B<sub>4</sub> 20-monooxygenase; Cytochrome P450 family 4 subfamily F member 3

**Gene ID**

[4051](#)

**UniProt ID**

[Q08477](#)