

# Product Information

## MemDX™ Membrane Protein Human PTGDR2 (Prostaglandin D2 receptor 2) Full Length

Cat. No.: **MPC0226K**

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

This product is a 43.2 kDa Human PTGDR2 membrane protein expressed in Baculovirus/Insect expression system. 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

PTGDR2

#### Protein Length

Full length

#### Protein Class

GPCR

#### Molecular Weight

43.2 kDa

#### TMD

7

#### Sequence

MSANATLKPLCPILEQMSRLQSHSNTSIRYIDHAAVLLHGLASLLGLVEN  
GVILFVVGCRMRTQTVTTWVLHLALSDLLASASLPFFTYFLAVGHSWELG  
TTFCKLHSSIFFLNMFASGFLLSAISLDRCLQVVRPVWAQNHRTVAAAHK  
VCLVLWALAVLNTVPYFVFRDTISRDLGRIMCYYNVLLLNPGPDRDATCN  
SRQVALAVSKFLLAFLVPLAIIASSHAAVSLRLQHRGRRRPGRFVRLVAA  
VVAAFALCWGPYHVFSLLLEARAHANPGLRPLVWRGLPFVTSLAFFNSVAN  
PVLYVLTCPDMLRKLRRSLRTVLESVLVDDSELGGAGSSRRRRTSSTARS  
ASPLALCSRPEEPRGPARRLLGWLLGSCAASPQTGPLNRALSSTSS

### Product Description

#### Expression Systems

Baculovirus/Insect expression system

#### Tag

Flag tag at N-terminal and 8xHis tag at C-terminal

**Protein Format**

Detergent or based on specific requirements

**Form**

Liquid

**Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

**Target****Target Protein**

PTGDR2

**Full Name**

Prostaglandin D2 receptor 2

**Introduction**

This gene encodes a G-protein-coupled receptor that is preferentially expressed in CD4+ effector T helper 2 (Th2) cells. This protein is a prostaglandin D2 receptor that mediates the pro-inflammatory chemotaxis of eosinophils, basophils, and Th2 lymphocytes generated during allergic inflammation. Single nucleotide polymorphisms in the 3' UTR of this gene have been associated with asthma susceptibility.

**Alternative Names**

DP2; DL1R; CD294; CRTH2; GPR44; G-protein coupled receptor 44; chemoattractant receptor homologous molecule expressed on T helper type 2 cells; chemoattractant receptor-homologous molecule expressed on TH2 cells; putative G-protein coupled receptor 44; PTGDR2; Prostaglandin D2 receptor 2

**Gene ID**

[11251](#)

**UniProt ID**

[Q9Y5Y4](#)