

# Product Information

## MemDX™ Membrane Protein Human LPAR2 (Lysophosphatidic acid receptor 2) Full Length

Cat. No.: **MPC0281K**

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

This product is a 39 kDa Human LPAR2 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

LPAR2

#### Protein Length

Full length

#### Protein Class

GPCR

#### Molecular Weight

39 kDa

#### TMD

7

#### Sequence

MVIMGQCYYNETIGFFYNNSGKELSSHWRPKDVVVVALGLTVSVLVLLTN  
LLVIAAIASNRRFHQPIYYLLGNLAAADLFAGVAYLFLMFHTGPRTARLS  
LEGWFLRQGLLDTSLTASVATLLAIAVERHRSVMAVQLHSRLPRGRVVML  
IVGVVVAALGLGLLPAHSWHCLCALDRCSRMAPLLSRSLAVWALSLLV  
FLLMVAVYTRIFFYVRRRVQRMAEHVSCHPRYRETTLSLVKTVVILGAF  
VVCWTPGQVVLLDGLGCESC NVLAVEKYFLLAEANSLVNAAVYSCRDA  
EMRRTFRLLCCACLRQSTRESVHYTSSAQGGASTRIMLPENGHPLMDST  
L

### Product Description

#### Expression Systems

Baculovirus/Insect expression system

#### Tag

Based on specific requirements

**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**

LPAR2

**Full Name**

Lysophosphatidic acid receptor 2

**Introduction**

This gene encodes a member of family I of the G protein-coupled receptors, as well as the EDG family of proteins. This protein functions as a lysophosphatidic acid (LPA) receptor and contributes to Ca<sup>2+</sup> mobilization, a critical cellular response to LPA in cells, through association with Gi and Gq proteins. An alternative splice variant has been described but its full length sequence has not been determined.

**Alternative Names**

EDG4; LPA2; EDG-4; LPA-2; G protein-coupled receptor; LPA receptor 2; LPA receptor EDG4; endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 4; lysophosphatidic acid receptor EDG4; lysophosphatidic acid receptor Edg-4; LPAR2; Lysophosphatidic acid receptor 2

**Gene ID**

[9170](#)

**UniProt ID**

[Q9HBW0](#)