

# Product Information

## **MemDX™ Membrane Protein Human BPIFA1 (BPI fold containing family A member 1)**

### **Expressed *in vitro* E.coli expression system, Full Length of Mature Protein**

Cat. No.: **MPX0956K**

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

This product is a Human BPIFA1 membrane protein expressed *in vitro* E.coli 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**

BPIFA1

#### **Protein Length**

Full Length of Mature Protein

#### **Protein Class**

Immunity

#### **Molecular Weight**

40.7kDa

#### **Sequence**

QFGGLPVPLDQTLPLNPNALPLSPTGLAGSLTNALSNGLLSGGLLGILENPLLDILKPGGGTSGGLLGGLLGKVTSVIPGLNNIIDIK

### **Product Description**

#### **Expression Systems**

*in vitro* E.coli expression system

#### **Tag**

6xHis and SUMO tag at the N-terminus

#### **Protein Format**

Soluble

#### **Form**

Liquid or Lyophilized powder

#### **Purity**

>90% as determined by SDS-PAGE.

**Buffer**

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

**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**

BPIFA1

**Full Name**

BPI fold containing family A member 1

**Introduction**

This gene is the human homolog of murine plunc, and like the mouse gene, is specifically expressed in the upper airways and nasopharyngeal regions. The encoded antimicrobial protein displays antibacterial activity against Gram-negative bacteria. It is thought to be involved in inflammatory responses to irritants in the upper airways and may also serve as a potential molecular marker for detection of micrometastasis in non-small-cell lung cancer. Multiple transcript variants resulting from alternative splicing in the 3' UTR have been detected, but the full-length nature of only three are known.

**Alternative Names**

BPIFA1; LUNX; NASG; PLUNC; SPURT; SPLUNC1; bA49G10.5; ligand-binding protein RYA3; lung-specific protein X; nasopharyngeal carcinoma-related protein; palate lung and nasal epithelium clone protein; palate, lung and nasal epithelium associated; protein Plunc; secretory protein in upper respiratory tracts; short PLUNC1; tracheal epithelium enriched protein; von Ebner protein HI; BPI fold containing family A member 1

**Gene ID**

[51297](#)

**UniProt ID**

[Q9NP55](#)