

# Product Information

## **MemDX™ Membrane Protein Human OR1A1 (Olfactory receptor family 1 subfamily A member 1) Expressed *in vitro* E.coli expression system, Full Length**

Cat. No.: **MPX0925K**

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

This product is a Human OR1A1 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

OR1A1

#### Protein Length

Full Length

#### Protein Class

GPCR

#### Molecular Weight

50.6kDa

#### TMD

7

#### Sequence

MRENNQSSTLEFILLGVTGQQEQEDFFYILFLFIYPITLIGNLLIVLAICSDVRLHNPMYFLLANLSLVDIFFSSVTIPKMLANHLLGSKSIS

### 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**

>85% 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**

OR1A1

**Full Name**

Olfactory receptor family 1 subfamily A member 1

**Introduction**

Olfactory receptors interact with odorant molecules in the nose, to initiate a neuronal response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family of G-protein-coupled receptors (GPCR) arising from single coding-exon genes. Olfactory receptors share a 7-transmembrane domain structure with many neurotransmitter and hormone receptors and are responsible for the recognition and G protein-mediated transduction of odorant signals. The olfactory receptor gene family is the largest in the genome. The nomenclature assigned to the olfactory receptor genes and proteins for this organism is independent of other organisms.

**Alternative Names**

OR1A1; OR17-7; olfactory receptor 1A1; olfactory receptor 17-7; olfactory receptor OR17-11; Olfactory receptor family 1 subfamily A member 1

**Gene ID**

[8383](#)

**UniProt ID**

[Q9P1Q5](#)