

Product Information

MemDX™ Membrane Protein Human OR12D2 (Olfactory receptor family 12 subfamily D member 2) Expressed *in vitro* E.coli expression system, Full Length

Cat. No.: **MPX2956K**

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

This product is a Human OR12D2 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

OR12D2

Protein Length

Full Length

Protein Class

GPCR

TMD

7

Sequence

MLNNTTSVTEFLLLGVTDIQELQPFLFVVFLTIYFISVTGNGAVLMIVISDPRLHSLMYFFLGNLSDICYSTVTLPKMLQNFLSTHKAIS

Product Description

Expression Systems

in vitro E.coli expression system

Tag

10xHis tag at the N-terminus

Protein Format

Soluble

Form

Liquid or Lyophilized powder

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

OR12D2

Full Name

Olfactory receptor family 12 subfamily D member 2

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. This olfactory receptor gene is a segregating pseudogene, where some individuals have an allele that encodes a functional olfactory receptor, while other individuals have an allele encoding a protein that is predicted to be non-functional.

Alternative Names

OR12D2; HS6M1-20; DJ994E9.8; olfactory receptor 12D2; olfactory receptor OR6-28; Olfactory receptor family 12 subfamily D member 2

Gene ID

[26529](#)

UniProt ID

[P58182](#)