

# Product Information

## MemDX™ Membrane Protein Human OR2A5 (Olfactory receptor family 2 subfamily A member 5) Full Length

Cat. No.: **MPC3188K**

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

This product is a made-to-order Human OR2A5 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

OR2A5

#### Protein Length

Full length

#### Protein Class

GPCR

#### TMD

7

#### Sequence

MTKNQTWVTEFILLGFPLSLRIQMLLSGLFSLLYVFTLLGNGAILGLIWL  
DSRLHTPMYFFLSHLAIDISYASNNVPKMLTNLGLNKRKTISFVPCTMQ  
TFLYMAFAHTECLILVMSYDRYMAICHPLQYSVIMRWGVCTVLAVTSWA  
CGSLLALVHVLIILRLPFCGPHEINHFFCEILSVLKLACADTWLNQVVIF  
AASVFILVGPLCLVLVSYSRILAILRIQSGEGRRKAFSTCSSHLCMVGL  
FFGSAIVMYMAPKSRHPPEEQQKVLSLFYSLFNPMLNPLIYSLRNAEVKGA  
LKRVLWKQRSK

### Product Description

#### Expression Systems

Baculovirus/Insect expression system

#### Tag

Based on specific requirements

#### Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

**Form**

Liquid

**Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

**Target****Target Protein**

OR2A5

**Full Name**

Olfactory receptor family 2 subfamily A member 5

**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**

OR2A5; OR2A8; OR2A26; OR2A11P; OR7-138; OR7-141; olfactory receptor 2A5; olfactory receptor 2A26; olfactory receptor 2A8; olfactory receptor 7-138/7-141; olfactory receptor, family 2, subfamily A, member 11 pseudogene; olfactory receptor, family 2, subfamily A, member 26; olfactory receptor, family 2, subfamily A, member 8; Olfactory receptor family 2 subfamily A member 5

**Gene ID**

[393046](#)

**UniProt ID**

[Q96R48](#)