

# Product Information

## MemDX™ Membrane Protein Human OR2A42 (Olfactory receptor family 2 subfamily A member 42) Full Length

Cat. No.: **MPC3362K**

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

This product is a made-to-order Human OR2A42 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

OR2A42

#### Protein Length

Full length

#### Protein Class

GPCR

#### TMD

7

#### Sequence

MGENQTMVTEFLLLGFLLGPRIQMLLFGLFSLFYIFTLLGNGAILGLISL  
DSRLHTPMYFFLSHLAVVDIAYTRNTVPQMLANLLHPAKPISFAGCMTQT  
FLCLSFHSECLLLVLMSSYDRYVAICHPLRYSVIMTWRCITLAVTSWTC  
GSLALAHVVLILRLPFSGPHEINHFFCEILSVLRLACADTWLNQVVIFA  
ACVFFLVGPPSLVLVSYSHILAAILRIQSGEGRRKAFSTCSSHLCVVGLF  
FGSAIIMYMAPKSRHPREEQQKVFFLFYSFFNPTLNPLIYSLRNGEVKGAL  
RRALGKESHS

### 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**

OR2A42

**Full Name**

Olfactory receptor family 2 subfamily A member 42

**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**

OR2A42; olfactory receptor 2A1/2A42; olfactory receptor OR7-16; olfactory receptor OR7-19; olfactory receptor, family 2, subfamily A, member 1; Olfactory receptor family 2 subfamily A member 42

**Gene ID**

[402317](#)

**UniProt ID**

[Q8NGT9](#)