

## Product Information

### **MemDX™ Membrane Protein Human OR2W5 (Olfactory receptor family 2 subfamily W member 5 pseudogene) Full Length**

Cat. No.: **MPC2846K**

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

This product is a made-to-order Human OR2W5 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

OR2W5

##### Protein Length

Full length

##### Protein Class

GPCR

##### TMD

4

##### Sequence

MGKDNASYLQAFILVGSSDRPGLEKILFAVILIFCILTIVGNTAIIILLV  
MDVRLHTPMYFFLGNLSFLDLCTASIAPQLLWNLGGPEKTITYHGCV AQ  
LYIYMMLGSTECVLLVMSHDYVAVCRSLHYMAVMRPHLCQLVTVAWC  
CGFLNSFIMCPQTMQLSRCGRRRVDFLCEMPALIAMSCETMLVEAIHL  
CPGGGSPPGAALPHPHLLWRDCSRGAEDVSSRAKESLPHLLFSPHSGLS  
LLRNHHLRVPEAGQQLLPRSGEVPDSSLHHRHSQHQPPLHFEEQGCEGD  
HEETSGVGERGWGASTRGTL

#### 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**

OR2W5

**Full Name**

Olfactory receptor family 2 subfamily W member 5 pseudogene

**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 has a coding sequence that is comparable in length to other olfactory receptor genes, but it should be noted that a frameshift is present in the 3' coding region that disrupts the 7-transmembrane domain structure in the protein. It is unclear if the protein can function as an olfactory receptor or if an alternate function is served. For this reason, this gene has also been interpreted to be a pseudogene.

**Alternative Names**

OR2W5; OR2W5; OST722; olfactory receptor 2W5; olfactory receptor, family 2, subfamily W, member 5; putative olfactory receptor 2W5; Olfactory receptor family 2 subfamily W member 5 pseudogene

**Gene ID**

[441932](#)

**UniProt ID**

[A6NFC9](#)