

## Product Information

### **Magic™ Membrane Protein Human OR2G3 (Olfactory receptor family 2 subfamily G member 3) Expressed *in vitro* E.coli expression system, Full Length**

Cat. No.: **MPX2982K**

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

This product is a Human OR2G3 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

OR2G3

##### Protein Length

Full Length

##### Protein Class

GPCR

##### TMD

7

##### Sequence

MGLGNESSLMDFILLGFSDHPRLEAVLFVFLFFYLLTLVGNTIIISYLDPPLHTPMYFFLSNLSLLDI  
CFTTSLAPQTLVNLQRPKKTITYGGCVAQLYISLALGSTECILLADMALDRYIAVCKPLHYVVMNPRLC  
QQLASISWLSGLASSLIHATFTLQLPLCGNHRLDHFICEVPALLKLACVDTTVNELVLFVSVLVFVIPP  
ALISISYGFITQAVLRIKSVEARHKAFSTCSSHLTVVIIFYGTIIYVYLQPSDSYAQDQQKFISLFYTMV  
TPTLNPIIYTLRNKDMKEALRKLLSGKL

#### 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**

OR2G3

**Full Name**

Olfactory receptor family 2 subfamily G member 3

**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**

OR2G3; OR1-33; olfactory receptor 2G3; olfactory receptor OR1-33; Olfactory receptor family 2 subfamily G member 3

**Gene ID**

[81469](#)

**UniProt ID**

[Q8NGZ4](#)