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# Product Information

## MemDX™ Recombinant Human 5-HT2C Membrane Protein in Virus-Like Particles (MP-VLPs)

Cat. No.: **MPVLP-020**
This product is for research use only and is not intended for diagnostic use.

This product is recombinant Human 5-HT2C in VLPs form. This product is produced from mammalian cells by co-expressing the retroviral structural core polyprotein (gag) and the target membrane protein. MP-VLPs display highly-expressed copies of membrane proteins in their native conformation, providing an alternative to membrane protein stable cell lines, membrane preparations, detergent-solubilized proteins and other membrane protein preparation strategies. MP-VLPs can be used for a wide range of applications in antibody production, antibody discovery, antibody characterization, binding assays and functional assays.

## Product Specifications

**Host Species**
Human

**Target Protein**
5-HT2C

**Protein Length**
Full length

**Protein Class**
GPCR

**TMD**
7

## Product Description

**Application**
ELISA; Antibody Production; Antibody Discovery; Antibody Characterization; Binding Assays; Functional Assays

**Expression Systems**
HEK293 expression system

**Protein Format**
Membrane Protein-Virus Like Particles (MP-VLPs)

**Form**
Liquid

**Storage**
The product should be stored at -20°C or lower. Avoid freeze-thaw cycles.

## Target

### Target Protein

5-HT2C

### Full Name

5-hydroxytryptamine receptor 2C

### Introduction

This gene encodes a seven-transmembrane G-protein-coupled receptor. The encoded protein responds to signaling through the neurotransmitter serotonin. The mRNA of this gene is subject to multiple RNA editing events, where adenosine residues encoded by the genome are converted to inosines. RNA editing is predicted to alter the structure of the second intracellular loop, thereby generating alternate protein forms with decreased ability to interact with G proteins. Abnormalities in RNA editing of this gene have been detected in victims of suicide that suffer from depression. In addition, naturally-occuring variation in the promoter and 5' non-coding and coding regions of this gene may show statistically-significant association with mental illness and behavioral disorders. Alternative splicing results in multiple different transcript variants.

### Alternative Names

HTR1C; 5-HT1C; 5-HT2C; 5HTR2C; 5-HTR2C; HTR2C; 5-hydroxytryptamine receptor 2C; 5-hydroxytryptamine (serotonin) receptor 2C, G protein-coupled; 5-hydroxytryptamine receptor 1C; serotonin 5-HT-1C receptor; serotonin 5-HT-2C receptor

### Gene ID

3358

### UniProt ID

P28335

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