

# Product Information

## MemDX™ Recombinant Human CXCR4 Membrane Protein in Virus-Like Particles (MP-VLPs)

Cat. No.: **MPVLP-014**

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

This product is recombinant Human CXCR4 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

CXCR4

#### Protein Length

Full length

#### Protein Class

GPCR

#### TMD

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### 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

CXCR4

### Full Name

C-X-C motif chemokine receptor 4

### Introduction

This gene encodes a CXC chemokine receptor specific for stromal cell-derived factor-1. The protein has 7 transmembrane regions and is located on the cell surface. It acts with the CD4 protein to support HIV entry into cells and is also highly expressed in breast cancer cells. Mutations in this gene have been associated with WHIM (warts, hypogammaglobulinemia, infections, and myelokathexis) syndrome. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

### Alternative Names

FB22; HM89; LAP3; LCR1; NPYR; WHIM; CD184; LAP-3; LESTR; NPY3R; NPYRL; WHIMS; HSY3RR; NPYY3R; D2S201E; C-X-C chemokine receptor type 4; CD184 antigen; LPS-associated protein 3  
SDF-1 receptor; chemokine (C-X-C motif) receptor 4; fusin; leukocyte-derived seven transmembrane domain receptor; lipopolysaccharide-associated protein 3; neuropeptide Y receptor Y3  
neuropeptide Y3 receptor; seven transmembrane helix receptor; seven-transmembrane-segment receptor, spleen; stromal cell-derived factor 1 receptor

### Gene ID

[7852](#)

### UniProt ID

[P61073](#)