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# Product Information

## MemDX™ Membrane Protein Human OPN1LW (Opsin 1, long wave sensitive) for Antibody Discovery

Cat. No.: **MP0832X**
This product is for research use only and is not intended for diagnostic use.

This product is a 40.04 kDa Human OPN1LW membrane protein expressed in *in vitro* wheat germ 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**
OPN1LW

**Protein Length**
Full-length

**Molecular Weight**
40.04 kDa

**TMD**
7

**Sequence**
MAQQWSLQRLAGRHPQDSYEDSTQSSIFTYTNSNSTRGPFEGPNYHIAPRWVYHLTSVWMIFVVTASVFTNGLVLAATMKFKKLRI

## Product Description

**Application**
Antibody Production

**Expression Systems**
*in vitro* wheat germ expression system

**Tag**
NO

**Protein Format**
Liposome

**Form**

Liquid

**Buffer**

25 mM Tris-HCl of pH8.0 containing 2% glycerol

**Storage**

Store at +4°C for up to one week or several months at -80°C

## Target

**Target Protein**

OPN1LW

**Full Name**

Opsin 1, long wave sensitive

**Introduction**

This gene encodes for a light absorbing visual pigment of the opsin gene family. The encoded protein is called red cone photopigment or long-wavelength sensitive opsin. Opsins are G-protein coupled receptors with seven transmembrane domains, an N-terminal extracellular domain, and a C-terminal cytoplasmic domain. This gene and the medium-wavelength opsin gene are tandemly arrayed on the X chromosome and frequent unequal recombination and gene conversion may occur between these sequences. X chromosomes may have fusions of the medium- and long-wavelength opsin genes or may have more than one copy of these genes. Defects in this gene are the cause of partial, protanopic colorblindness.

**Alternative Names**

CBP; RCP; ROP; CBBM; COD5; long-wave-sensitive opsin 1; cone dystrophy 5 (X-linked); opsin 1 (cone pigments), long-wave-sensitive; red cone opsin; red cone photoreceptor pigment; red-sensitive opsin

**Gene ID**

5956

**UniProt ID**

P04000