

# Product Information

## MemDX™ Membrane Protein Human OPN1MW (Opsin 1, medium wave sensitive) for

### Antibody Discovery

Cat. No.: **MP0833X**

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

This product is a 40.04 kDa Human OPN1MW 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

OPN1MW

#### Protein Length

Full-length

#### Molecular Weight

40.04 kDa

#### TMD

7

#### Sequence

MAQQWSLQRLAGRHPQDSYEDSTQSSIFTYTNSNSTRGPFEGPNYHIAPRWVYHLTSVWMIFVVIASVFTNGLVLAATMKFKKLRLH

### 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**

OPN1MW

**Full Name**

Opsin 1, medium wave sensitive

**Introduction**

This gene encodes for a light absorbing visual pigment of the opsin gene family. The encoded protein is called green cone photopigment or medium-wavelength sensitive opsin. Opsins are G-protein coupled receptors with seven transmembrane domains, an N-terminal extracellular domain, and a C-terminal cytoplasmic domain. The long-wavelength opsin gene and multiple copies of 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 deutanopic colorblindness.

**Alternative Names**

CBD; GCP; GOP; CBBM; COD5; OPN1MW1; medium-wave-sensitive opsin 1; cone dystrophy 5 (X-linked); green cone photoreceptor pigment; green cone pigment; green-sensitive opsin; opsin 1 (cone pigments), medium-wave-sensitive; photopigment apoprotein

**Gene ID**

[2652](#)

**UniProt ID**

[P04001](#)