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# Product Information

## MemDX™ Membrane Protein Human OPN3 (Opsin 3) Expressed *in vitro E.coli* expression system, Full Length

Cat. No.: **MPX0894K**
This product is for research use only and is not intended for diagnostic use.

This product is a Human OPN3 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**
OPN3

**Protein Length**
Full Length

**Protein Class**
GPCR

**Molecular Weight**
47.7 kDa

**TMD**
7

**Sequence**
MYSGNRSGGHGYWDGGGAAGAEGPAPAGTLSPAPLFSPGTYERLALLLGSIGLLGVGNNLLVLVLYYKFQRLRTPTHLLLVNISLSD

## Product Description

**Expression Systems**
*in vitro E.coli* expression system

**Tag**
10xHis tag at the N-terminus

**Protein Format**
Soluble

**Form**

LYOPH

**Reconstitution**

Reconstitute protein in deionized sterile water

**Purity**

>85% as determined by SDS-PAGE.

**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**

OPN3

**Full Name**

Opsin 3

**Introduction**

Opsins are members of the guanine nucleotide-binding protein (G protein)-coupled receptor superfamily. In addition to the visual opsins, mammals possess several photoreceptive non-visual opsins that are expressed in extraocular tissues. This gene, opsin 3, is strongly expressed in brain and testis and weakly expressed in liver, placenta, heart, lung, skeletal muscle, kidney, and pancreas. The gene may also be expressed in the retina. The protein has the canonical features of a photoreceptive opsin protein.

**Alternative Names**

OPN3; ECPN; PPP1R116; opsin-3; encephalopsin; opsin 3 (encephalopsin, panopsin); protein phosphatase 1, regulatory subunit 116; Opsin 3

**Gene ID**

23596

**UniProt ID**

Q9H1Y3