

# Recombinant Full Length Mouse Medium-Wave-Sensitive Opsin 1(Opn1Mw) Protein, His-Tagged

**Cat. No.** RFL18087MF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Mouse Medium-wave-sensitive opsin 1(Opn1mw) Protein (O35599) (1-359aa), fused to N-terminal His tag, was expressed in E. coli.
<b>Species</b>	Mus musculus
<b>Source</b>	E.coli
<b>ProteinLength</b>	Full Length (1-359)
<b>Form</b>	Lyophilized powder
<b>AA Sequence</b>	<p>MAQRLTGEQTLDHIEDSTHASIFTYTNSNSTKGPFEKPNYHIAPRWVYHLTSTWMIL  V V V A S V F T N G L V L A A T M R F K K L R H P L N W I L V N L A V A D L A E T I I A S T I S V V N Q I Y G Y F V L  G H P L C V I E G Y I V S L C G I T G L W S L A I I S W E R W L V V C K P F G N V R F D A K L A T V G I V F S W V  W A A I W T A P P I F G W S R Y W P Y G L K T S C G P D V F S G T S Y P G V Q S Y M M V L M V T C C I F P L S I  I V L C Y L Q V W L A I R A V A K Q Q K E S E S T Q K A E K E V T R M V V V M V F A Y C L C W G P Y T F F A C F  A T A H P G Y A F H P L V A S L P S Y F A K S A T I Y N P I I Y V F M N R Q F R N C I L H L F G K K V D D S S E L S  S T S K T E V S S V S S V S P A</p>
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Applications</b>	SDS-PAGE
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

for up to one week.

**Storage**

Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.

**Storage Buffer**

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## GENE INFORMATION

**Gene Name**

Opn1mw

**Synonyms**

Opn1mw; Gcp; Medium-wave-sensitive opsin 1; Green cone photoreceptor pigment; Green-sensitive opsin; M opsin; Medium wavelength-sensitive cone opsin

**UniProt ID**

[O35599](#)

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