

# Recombinant Full Length Rat Melanopsin(Opn4) Protein, His-Tagged

**Cat. No.** RFL5284RF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Rat Melanopsin(Opn4) Protein (Q8R456) (1-474aa), fused to N-terminal His tag, was expressed in E. coli.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>ProteinLength</b>	Full Length (1-474)
<b>Form</b>	Lyophilized powder
<b>AA Sequence</b>	<p>MNSPSES RVPSSLTQDPSFTASPALLQGIWNSTQNISVRVQLLSVSPTTPGLQAAA  WVPF PTVDVPDHAHYTLGTVILLVGLTGMLGNLTVIYTF CRNRGLRTPANMLIINLAV  SDFLMS FTQAPVFFASSLYKKWLFGETGCKFYAF CGAVFGVSMITLTAIAMDRYLVI  TRPLATIG MRSKRRTALVLLGVWLYALAWSLPPFFGWSAYVPEGLLTSCSWDYVTF  TPLVRAYTM L LF CFVFFLPLLIIFCYIFIFRAIRETGRACEGCGESPLRRRQWQRLQS  EWKMAKVALIVIL L FVLSWAPYSTVALVGFAGYSHILTPYMSSVPAVIAKASAIHNPIIY  AITHPKYRAAIAQ HLPCLGVLLGVSGQRSHPSLSYRSTHRSTLSSQSSDL SWISGQK  RQESLGSESEVGWTD T ETTAAWGAAQQASGQSFC SHDLEDGEVKAPSSPQE QKS  KTPKTKRHLPSLDRRM</p>
<b>Purity</b>	Greater than 90% as determined by 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**

Opn4

**Synonyms**

Opn4; Melanopsin; Opsin-4

**UniProt ID**

[Q8R456](#)

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