

# Recombinant Full Length Gadus Morhua Melanopsin-B(Opn4B) Protein, His-Tagged

**Cat. No.** RFL19984GF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | Recombinant Full Length Gadus morhua Melanopsin-B(opn4b) Protein (Q804Q2) (1-615aa), fused to N-terminal His tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Gadus morhua (Atlantic cod)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | Full Length (1-615)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | MDMDRGFYRKVDVPDHAHYVIAFFVLIIGVVGVTGNALVMYAFLCNKKLRTPPNYFI<br>MNL AVSDFLMAITQSPIFFINSLFKEWIFGETGCRMAYFCGALFGITSMINLLAISLDR<br>YIVI TKPPQAIRWVSGRRTMVVILLVWLYSLAWSLAPLLGWSSYIPEGLMTSCTWDY<br>VTSTPAN KGYTLMCCFVFFIPLGIISYCYLCMFLAIRSAGREIERLGTQVRKSTLMQ<br>QQTIKTEWK LTKVAFVVIIVYVHSWSPYACVTLIAWAGYGSHLSPYSKAVPAVIAKAS<br>AIYNPFIYAI HSKYRDTLAEHVPCLYFLRQPPRKVMSRAQSECSFRDSMVSQRSS<br>ASKTKFHRVSSTST ADTQVWSDVELDPMNHEGQSLRTSHSLGVLGRSKEHRGPPA<br>QQNRQTRSSDTLEQATVAD WRPPLTALRCDRNFLPQPTHPPYKMAAATPLQATTV<br>DNVTPEHWNKHPNNNHKNHNNRHN GNNNNEEHEYSKGGRHCQNHPPHHIDVKN<br>SISNCKKTCEKDTFSKEPVPCNAADDVRFSP RSAHTIQHAMGTPFRYMPEGDIACQ<br>ERLSTDRSQRGDPLPDSKSLNCTGDVPVSAQRCSF PHETSRNLEESFMAL |
| <b>Purity</b>           | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

 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

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes</b>          | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                                                                                                                                         |
| <b>Storage</b>        | Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                              |
| <b>Storage Buffer</b> | Tris/PBS-based buffer, 6% Trehalose, pH 8.0                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Reconstitution</b> | 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

|                   |                               |
|-------------------|-------------------------------|
| <b>Gene Name</b>  | opn4b                         |
| <b>Synonyms</b>   | opn4b; Melanopsin-B; Opsin-4B |
| <b>UniProt ID</b> | <a href="#">Q804Q2</a>        |

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