

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

**Cat. No.** RFL471MF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Full Length Mouse Melanopsin(Opn4) Protein (Q9QXZ9) (1-521aa), 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 (1-521)   |
| <b>Form</b>             | Lyophilized powder  |
| <b>AA Sequence</b>      | <p>MDSPSGPRVLSSLTQDPSFTTSPALQGIWNGTQNVSVRAQLLSVSPTTSAHQAAAW<br/> VPFP TVDVPDHAHYTLGTVILLVGLTGMLGNLTVIYTFRCNRGLRTPANMFIINLAVS<br/> DFLMSV TQAPVFFASSLYKKWLFGETGCEFYAFCGAVFGITSMITLTAIAMDRYLVT<br/> RPLATIGR GSKRRTALVLLGVWLYALAWSLPPFFGWSAYVPEGLLTSCSWDYMTFT<br/> PQVRAYTMLLFC FVFFLPLLIIFCYIFIFRAIRETGRACEGCGESPLRQRRQWQRLQS<br/> EWKMAKVALIVIL LFLVSWAPYSTVALVAFAGYSHILTPYMSSVPAVIAKASAIHNPIIY<br/> AITHPKYRVAIAQ HLPCLGVLLGVSGQRSHPSLSYRSTHRSTLSSQSSDLISWISGRK<br/> RQESLGSESEVGWTD TTTAAWGAAQQASGQSFCSQNLEDGELKASSSPQVQRS<br/> KTPKVPGPSTCRPMKGQGARPS SLRGDQKGR LAVCTGLSECPHPHTSQFPLAFLE<br/> DDVTLRHL</p> |
| <b>Purity</b>           | Greater than 90% as determined by SDS-PAGE.   |

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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 multiple 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>  | Opn4                                 |
| <b>Synonyms</b>   | Opn4; Mop; Mopn; Melanopsin; Opsin-4 |
| <b>UniProt ID</b> | <a href="#">Q9QXZ9</a>               |

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