

# Recombinant Full Length Horse Long-Wave-Sensitive Opsin 1(Opn1Lw) Protein, His-Tagged

**Cat. No.** RFL34897EF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b> | Recombinant Full Length Horse Long-wave-sensitive opsin 1(OPN1LW) Protein (O18912) (1-273aa), fused to N-terminal His tag, was expressed in E. coli.                                                                                                                                                          |
| <b>Species</b>          | Horse                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | Full Length (1-273)                                                                                                                                                                                                                                                                                           |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                                                                            |
| <b>AA Sequence</b>      | APRWVYHVTSAWMIFVVIASVFTNGLVLAATMRFKKLRHPLNWILVNLAVADLAETIIA<br>S TISVVNQIYG YFVLGHPMCVVEGYTVSLCGITGLWSLAIISWERWMV VCKPFGNVR<br>F DAK LAVAGIAFSWIWA AVWTAPPIFGWSRYWPHGLKTSCGPDV FSGSSYPGVQS<br>Y MIVLMITC CIIPLSVIVLCYLQVWLAI RAVAKQQKESESTQKAEKEVTRMVMVMVFA<br>FCLCWGPYTF F ACFAAAHPGYAFHPLVAALPAYFAKSATIYNPI |
| <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 for up to one week.                                                                                                                                                                                                           |

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| <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. |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Gene Name</b>        | OPN1LW                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>         | OPN1LW; RCP; Long-wave-sensitive opsin 1; Red cone photoreceptor pigment; Red-sensitive opsin                                                                                                                                                                                                                                                                                                               |
| <b>UniProt ID</b>       | <a href="#">O18912</a>                                                                                                                                                                                                                                                                                                                                                                                      |

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