

# Recombinant Full Length Danio Rerio Red-Sensitive Opsin-1(Opn1Lw1) Protein, His-Tagged

**Cat. No.** RFL2211DF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Product Overview</b> | Recombinant Full Length Danio rerio Red-sensitive opsin-1(opn1lw1) Protein (Q9W6A7) (1-357aa), fused to N-terminal His tag, was expressed in E. coli.                                                                                                                                                                                                                                             |
| <b>Species</b>          | zebrafish                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | Full Length (1-357)                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MAEHWGDAIYAARRKGDETTREAMFTYTNSNNTKDPFEGPNYHIAPRWVYNVATV<br>WMFFV VVASTFTNGLVLVATAKFKKLRHPLNWILVNLAIADLGETLFASTISVINQFF<br>GYFILGH PMCIFEGYTVSVCGIAALWSLTVISWERWVVCKPFGNVKFDKAWASAGI<br>IFSWVWAAAW CAPPIFGWSRYWPHGLKTSCGPDVFSGSEDPGVQSYMVVLMITC<br>CIIPLAIIILCYIAVY LAIHAVAQQQKDSESTQKAEKEVSRMVVVMIFAYCFCWGPYTF<br>FACFAAANPGYAFHPLA AAMPAYFAKSATIYNPVIYVFMNRQFRVCIMQLFGKKVDD<br>GSEVSTSKTEVSSVAPA |
| <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 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>        | opn1lw1                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>         | opn1lw1; lws1; rdops; Red-sensitive opsin-1; Opsin-1, long-wave-sensitive 1; Opsin LWS-1; Red cone photoreceptor pigment 1                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID</b>       | <a href="#">Q9W6A7</a>                                                                                                                                                                                                                                                                                                                                                                                      |

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