

# Recombinant Full Length Green-Light Absorbing Proteorhodopsin Protein, His-Tagged

**Cat. No.** RFL21312GF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Green-light absorbing proteorhodopsin Protein (Q9F7P4) (18-249aa), fused to N-terminal His tag, was expressed in E. coli.                                                                                                    |
| <b>Species</b>          | Gamma-proteobacterium EBAC31A08                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | Full Length of Mature Protein (18-249)                                                                                                                                                                                                               |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | AGGGDLSDSYTGVSFWLVTAALLASTVFFFVERDRVSAKWKTSLTVSGLVTGIAF<br>WHYM YMRGVWIETGDSPTVFRYIDWLLTVPLICEFYLLAAATNVAGSLFKLLVGS<br>LVMLVF GYMGEAGIMAAWPAFIIGCLAWVYMIYELWAGEGKSACNTASPAVQSAYN<br>TMMYIIIFGW AIYPVG YFTGYLMGDGGSALNLIYNLADFNKILFGLIWNVAVKES<br>SNA |
| <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.                                                                                                                                                  |
| <b>Storage</b>          | Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.                                                                                                                                       |

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|-----------------------|---------------------------------------------|
| <b>Storage Buffer</b> | Tris/PBS-based buffer, 6% Trehalose, pH 8.0 |
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**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**

|                  |                                       |
|------------------|---------------------------------------|
| <b>Gene Name</b> | Green-light absorbing proteorhodopsin |
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|-----------------|--------------------------------------------|
| <b>Synonyms</b> | Green-light absorbing proteorhodopsin; GPR |
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|-------------------|------------------------|
| <b>UniProt ID</b> | <a href="#">Q9F7P4</a> |
|-------------------|------------------------|

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