

# Recombinant Full Length Nymphaea Alba Photosystem Ii Cp43 Chlorophyll Apoprotein(Psbc) Protein, His-Tagged

**Cat. No.** RFL25132NF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Product Overview</b> | Recombinant Full Length Nymphaea alba Photosystem II CP43 chlorophyll apoprotein(psbC) Protein (Q6EW52) (15-473aa), fused to N-terminal His tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Nymphaea alba (White water-lily) (Castalia alba)                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | Full Length of Mature Protein (15-473)                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | TLFNGTLALAGRDQETTGF AWWAGNARLINLSGKLLGAHVAHAGLIVFWAGAMNLF<br>EVAH FVPEKPMYEQGLILLPHLATLGWGVGPGGEVVDTFPYFVSGVLHLISSAVLGF<br>GGIYHAL LGPETLEESFPFFGYVWKDRNKMTTILGIHLILLGLGAFLLVFKALYFGGV<br>YDTWAPGGG DVRRITNLTLSPSIIFGYLLKSPFGGEGWIVSVDDLEDIIGGHVWLGSI<br>CILGGIWHILT KPFAWARRAFVWSGEAYLSYSLGALSVFGFTACCFVWFNNTAYPS<br>EFYGPTGPEASQAQA FTFLVRDQRLGANVGSAQGPTGLGKYLMSPTGEIIFGGET<br>MRFWDLRAPWLEPLRGPNG LDLSRLKKDIQPWQERRSAEYMTHAPLGSLNSVGG<br>VATEINAVNYVSPRSWLATSHFVLG FFFVVGHLWHAGRARAAAAGFEKGIDRDFEP<br>VLFMTPLN |
| <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 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>  | psbC                                                                                  |
| <b>Synonyms</b>   | psbC; Photosystem II CP43 reaction center protein; PSII 43 kDa protein; Protein CP-43 |
| <b>UniProt ID</b> | <a href="#">Q6EW52</a>                                                                |

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