# Recombinant Full Length Capsicum Annuum Beta-Carotene Hydroxylase 1, Chloroplastic(Ca1) Protein, His-Tagged

**Cat. No.** RFL22792CF **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Full Length Capsicum annuum Beta-carotene hydroxylase 1, chloroplastic(CA1) Protein (O49815) (9-315aa), fused to N-terminal His tag, was expressed in E. coli. |
| **Species** | Capsicum annuum (Bell pepper) |
| **Source** | E.coli |
| **ProteinLength** | Full Length of Mature Protein (9-315) |
| **Form** | Lyophilized powder |
| **AA Sequence** | ASSRAICLQRNPFPAPKYFATAPPLLFFSPLTCNLDAILRSRRKPRLAACFVLKDDKL YT AQSGKQSDTEAIGDEIEVETNEEKSLAVRLAEKFARKKSERFTYLVAAVMSSLGIT SMAV ISVYYRFSWQMEGGEMPFSEMFCTFALAFGAAIGMEYWARWAHRALWHAS LWHMHESHHR PREGPFELNDIFAIINAVPAIAFFSFGFNHKGLIPGICFGAGLGITVFG MAYMFVHDGLV HKRFPVGPIAKVPYFQRVAAAHQLHHSDKFDGVPYGLFLGPKEL EEVGVIEELEKEVNRR IKSLKRL |
| **Purity** | Greater than 90% as determined by SDS-PAGE. |
| **Notes** | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |

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| **Storage** | Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles. |
| **Storage Buffer** | Tris/PBS-based buffer, 6% Trehalose, pH 8.0 |
| **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℃/-80℃. Our default final concentration of glycerol is 50%. Customers could use it as reference. |

## GENE INFORMATION

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| **Gene Name** | CA1 |
| **Synonyms** | CA1; CrtZ-2; LOC107863219; T459_09470; Beta-carotene hydroxylase 1, chloroplastic |
| **UniProt ID** | O49815 |

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