Protein LUTEIN DEFICIENT 5, chloroplastic (CYP97A3), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP08437*

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Protein LUTEIN DEFICIENT 5, chloroplastic (CYP97A3) , partial

Product Gene Name
CYP97A3 recombinant protein

Product Synonym Gene Name
CYP97A3

Purity
Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Format
Lyophilized or liquid (Format to be determined during the manufacturing process)

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
66,846 Da

Storage
Store at -20℃. For long-term storage, store at -20℃ or -80℃. Store working aliquots at 4℃ for up to one week. Repeated freezing and thawing is not recommended.

Protein Family
Protein LUTEIN DEFICIENT

NCBI Accession
NP_564384.1

NCBI GI
18398119

NCBI GenBank Nucleotide
NM_102914.3

NCBI GeneID
840067

NCBI Official Full Name
cytochrome P450, family 97, subfamily A, polypeptide 3

NCBI Official Symbol
CYP97A3

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NCBI Official Synonym Symbols
"cytochrome P450; cytochrome P450; F5M6.19; F5M6_19; family 97; LUT5; LUTEIN DEFICIENT 5; polypeptide 3; polypeptide 3"; subfamily A

NCBI Protein Information
cytochrome P450, family 97, subfamily A, polypeptide 3

NCBI Summary
Encodes a protein with beta-ring carotenoid hydroxylase activity.

UniProt Gene Name
CYP97A3

UniProt Synonym Gene Names
LUT5

UniProt Protein Name
Protein LUTEIN DEFICIENT 5, chloroplastic

UniProt Synonym Protein Names
Cytochrome P450 97A3

UniProt Primary Accession
Q93VK5

UniProt Secondary Accession
Q9C6S0

UniProt Related Accession
Q93VK5

UniProt Comments
Heme-containing cytochrome P450 involved in the biosynthesis of xanthophylls. Specific for beta-ring hydroxylation of alpha- and beta-carotene. Has also a low activity toward the epsilon-rings of alpha-carotene. The beta-ring of alpha-carotene is the preferred substrate in planta.

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