Outer envelope protein 61, chloroplastic (OEP61), Recombinant Protein

Cat *RP05372*

CD BioSciences
Plant Protein

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Outer envelope protein 61, chloroplastic (OEP61) , partial

Product Gene Name
OEP61 recombinant protein

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
60,757 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
Outer envelope protein

NCBI Accession
NP_680187.2

NCBI GI
30688239

NCBI GenBank Nucleotide
NM_147882.3

NCBI GeneID
832259

NCBI Official Full Name
Tetratricopeptide repeat (TPR)-like superfamily protein

NCBI Official Symbol
TPR7

NCBI Official Synonym Symbols
AtTPR7; OEP61; outer envelope protein 61; tetratricopeptide repeat 7

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI Protein Information
Tetratricopeptide repeat (TPR)-like superfamily protein

NCBI Summary
Encodes one of the 36 carboxylate clamp (CC)-tetratricopeptide repeat (TPR) proteins (Prasad 2010, Pubmed ID: 20856808). Functions as a chaperone receptor at the chloroplast outer envelope, mediating Hsp70-dependent protein targeting to chloroplasts. It has been localized to the ER membrane, interacts with the Sec translocon, and has a potential function in post-translational protein transport into the ER.

UniProt Gene Name
OEP61

UniProt Synonym Gene Names
TPR7

UniProt Protein Name
Outer envelope protein 61

UniProt Synonym Protein Names
Tetratricopeptide repeat domain-containing protein 7

UniProt Primary Accession
B7ZWR6

UniProt Secondary Accession
Q8GWM6; Q9C588

UniProt Related Accession
B7ZWR6

UniProt Comments
Plays a role in protein import into the endoplasmic reticulum (ER). May function as chaperone docking protein during post-translational protein translocation into the ER. Chaperone receptor mediating Hsp70-dependent protein targeting to chloroplasts. Interacts specifically with some chloroplast precursors, but not with mitochondrial precursors. Able to select precursors for delivery to the chloroplast translocase independently of Hsp70.

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