

# Pentatricopeptide repeat-containing protein At2g45350, chloroplastic (CRR4), Recombinant Protein

Cat      *RP02075*

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## Species

*Arabidopsis thaliana* (Mouse-ear cress)

## Full Product Name

Recombinant *Arabidopsis thaliana* Pentatricopeptide repeat-containing protein At2g45350, chloroplastic (CRR4) , partial

## Product Gene Name

CRR4 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

69,186 Da

## Storage

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

## Protein Family

Pentatricopeptide repeat-containing protein

## NCBI Accession #

NP\_182060.2

## NCBI GI #

334184919

## NCBI GenBank Nucleotide #

NM\_130098.3

## NCBI GenelD

819143

## NCBI Official Full Name

Pentatricopeptide repeat (PPR) superfamily protein

## NCBI Official Symbol

CRR4

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**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

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# Pentatricopeptide repeat-containing protein At2g45350, chloroplastic (CRR4), Recombinant Protein

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## NCBI Official Synonym Symbols

CHLORORESPIRATORY REDUCTION 4; F4L23.14

## NCBI Protein Information

Pentatricopeptide repeat (PPR) superfamily protein

## NCBI Summary

Encodes a member of a PCMP (plant combinatorial and modular protein) family (PCMP-E subfamily) with 11 pentatricopeptide (PPR) repeats. The protein is involved in RNA editing of the initiation codon of ndhD in the chloroplast.

## UniProt Gene Name

CRR4

## UniProt Synonym Gene Names

PCMP-E11

## UniProt Protein Name

Pentatricopeptide repeat-containing protein At2g45350, chloroplastic

## UniProt Synonym Protein Names

Protein CHLORORESPIRATORY REDUCTION 4

## UniProt Primary Accession #

O22137

## UniProt Related Accession #

O22137

## UniProt Comments

Plays a major role in chloroplast RNA editing. Acts as a site-recognition transacting factor to recruit C-deaminase (PubMed:15662426, PubMed:17015439). Involved in single RNA editing events. Required for the edition of the site 1 of ndhD (ndhD-1 site corresponding to cytidine-2), which is a plastid-encoded subunit of the NADH-plastoquinone oxidoreductase. The interaction with DYW1 is required for its function in editing the ndhD-1 site (PubMed:23001034).

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