

Protein CCA1 (CCA1), Recombinant Protein

Cat RP01378

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Protein CCA1 (CCA1) , partial

Product Gene Name

CCA1 recombinant protein

Purity

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

Sequence

METNSSGEDL VIKTRKPYTI TKQRERWTEE EHNRFIEALR LYGRAWQKIE EHVATKTAVQ IRSHAQKFFS
KVEKEAEAKG VAMGQALDIA IPPRPKRKP NNPYPRKTGS GTILMSKTGV NDGKESLGSE KVSHPEMANE
DRQQSKPEEK TLQEDNCSDC FTHQYLSAAS SMNKSCIETS NASTFREFLP SREEGSQNNR VRKESNSDLN
AKSLENGNEQ GPQTYPMHIP VLVPLGSSIT SSLSHPPSEP DSHPHTVAGD YQSFPNHIMS TLLQTPALYT
AATFASSFWP PDSSGGSPVP GNSPPNLAAM AAATVA

Sequence Positions

1-316. Partial

Format

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

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

57,347 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

Protein

NCBI Accession

NP_001318437.1

NCBI GI

1063703544

NCBI GenBank Nucleotide

NM_001337221.1

NCBI GeneID

819296

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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circadian clock associated 1

NCBI Official Symbol

CCA1

NCBI Official Synonym Symbols

AtCCA1; circadian clock associated 1; F19D11.11; MYB-RELATED DNA BINDING PROTEIN

NCBI Protein Information

circadian clock associated 1

NCBI Summary

Encodes a transcriptional repressor that performs overlapping functions with LHY in a regulatory feedback loop that is closely associated with the circadian oscillator of Arabidopsis. Binds to the evening element in the promoter of TOC1 and represses TOC1 transcription. CCA1 and LHY colocalize in the nucleus and form heterodimers in vivo. CCA1 and LHY function synergistically in regulating circadian rhythms of Arabidopsis.

UniProt Gene Name

CCA1

UniProt Protein Name

Protein CCA1

UniProt Synonym Protein Names

MYB-related transcription factor CCA1

UniProt Primary Accession

P92973

UniProt Secondary Accession

Q8S8N5

UniProt Related Accession

P92973

UniProt Comments

Transcription factor involved in the circadian clock and in the phytochrome regulation. Binds to the promoter regions of APRR1/TOC1 and TCP21/CHE to repress their transcription. Binds to the promoter regions of CAB2A and CAB2B to promote their transcription. Represses both LHY and itself.

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