

# Cullin-associated NEDD8-dissociated protein 1 (CAND1), Recombinant Protein

Cat      RP05094

## Species

Arabidopsis thaliana (Mouse-ear cress)

## Full Product Name

Recombinant Arabidopsis thaliana Cullin-associated NEDD8-dissociated protein 1 (CAND1) , partial

## Product Gene Name

CAND1 recombinant protein

## Product Synonym Gene Name

CAND1

## 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

134,622 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.

## NCBI Accession #

NP\_001030954.1

## NCBI GI #

79316548

## NCBI GenBank Nucleotide #

NM\_001035877.2

## NCBI GenelID

814786

## NCBI Official Full Name

cullin-associated and neddylation dissociated

## NCBI Official Symbol

CAND1

## NCBI Official Synonym Symbols

ATCAND1; cullin-associated and neddylation dissociated; CULLIN-ASSOCIATED AND NEDDYLYATION

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

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DISSOCIATED 1; ETA2; HEMIVENATA; HVE; T8K22.14; T8K22\_14; TIP120

## NCBI Protein Information

cullin-associated and neddylation dissociated

## NCBI Summary

Arabidopsis thaliana homolog of human CAND1 (cullin-associated and neddylation-dissociated). Putative similarity to TBP-interacting protein TIP120. Ubiquitously expressed in plant tissues throughout development. T-DNA insertion mutant plants were completely sterile and resistant to sirtinol and auxin, but not to gibberellins or brassinolide. Displayed developmental phenotypes similar to those of *axr1*, namely, short petioles, downwardly curling leaves, shorter inflorescence. Required for SCF function and appears to modulate SCF complex cycling. Physically interacts with CUL1.

## UniProt Gene Name

CAND1

## UniProt Synonym Gene Names

ETA2; HVE; AtCAND1

## UniProt Protein Name

Cullin-associated NEDD8-dissociated protein 1

## UniProt Synonym Protein Names

Cullin-associated and neddylation-dissociated protein 1; AtCAND1; Protein ENHANCER OF TIR1-1 AUXIN RESISTANCE 2; Protein HEMIVENATA

## UniProt Primary Accession #

Q8L5Y6

## UniProt Secondary Accession #

O64720

## UniProt Related Accession #

Q8L5Y6

## UniProt Comments

Key assembly factor of SCF (SKP1-CUL1-F-box protein) E3 ubiquitin ligase complexes that promotes the exchange of the substrate-recognition F-box subunit in SCF complexes, thereby playing a key role in the cellular repertoire of SCF complexes. Acts as a F-box protein exchange factor. Required for SCF(TIR1) function. Modulates SCF(TIR1) function through its interactions with the CUL1 subunit. Represses photomorphogenesis by promoting HY5 degradation in darkness.

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