

CHD3-type chromatin-remodeling factor PICKLE (PKL), Recombinant Protein

Cat RP00015

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

Full Product Name

Recombinant Arabidopsis thaliana CHD3-type chromatin-remodeling factor PICKLE (PKL) , partial

Product Gene Name

PKL recombinant protein

Product Synonym Gene Name

PKL

Purity

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

Sequence

FLRFSWSKQT HVILADEMGL GKTIQSIALL ASLFEENLIP HLVIAPLSTL RNWEREFATW APQMNVMYF
GTAQARAVIR EHEFYLSKDQ KKKKKKSGQ ISSSEKQKRI KFDVLLTSYE MINLDSAVLK PIKWECEMIVD
EGHRLKNKDS KLFSSLTQYS SNHRILLTGT PLQNNLDELFLMHFLDAGK FGSLEEFQEE FKDINQEEQI
SRLHKMLAPH LLRRVKKDVM KDMPPKKEI LRVDLSSLQK EYYKAIFTRN YQVLTKKGGA QISLNNIMME
LRKVCCHPYM LEGVEPVIHD ANEAFKQLLE SCGKLQLLDK MMVKLKEQGH RVLIYTQFQH MLDLLEDYCT
HKKWQYERID GKVGGAEQRI RIDRFNAKNS NKFCFLLSTR AGGLGINLAT ADTVIIYDSD WNPHADLQAM
ARAHRLGQTN KVMYRLINR GTIEERMMQL TKKKMVLEHL VVGKLKTQNI NQEELDDIIR

Sequence Positions

283-762aa; 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

158,405 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

CHD3-type chromatin-remodeling factor

NCBI Accession

NP_001324291.1

NCBI GI

1063704780

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

CHD3-type chromatin-remodeling factor PICKLE (PKL), Recombinant Protein

Cat RP00015

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)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
NCBI GenBank Nucleotide # NM_001335978.1

NCBI GeneID

817055

NCBI Official Full Name

chromatin remodeling factor CHD3 (PICKLE)

NCBI Official Symbol

PKL

NCBI Official Synonym Symbols

AT2G25170.1; CHD3; CHD3 PROTEIN; CHR6; CKH2; CYTOKININ-HYPERSENSITIVE 2; ENHANCED PHOTOMORPHOGENIC 1; EPP1; GYM; GYMNAS; PICKLE; SSL2; SUPPRESSOR OF SLR 2

NCBI Protein Information

chromatin remodeling factor CHD3 (PICKLE)

NCBI Summary

Encodes a SWI/SWF nuclear-localized chromatin remodeling factor of the CHD3 group. Involved in post-germination repression of embryonic development. Acts with GA to establish repression of embryonic genes upon germination. Protein preferentially accumulates in differentiating tissues. Loss of function alleles are associated with expression of embryonic traits in adult plants and derepression of embryonic genes such as PHEROS1. Is an extragenic suppressor of slr2 (SSL2). Mutations in PKL (SSL2) restores lateral root formation in the slr2 mutant slr-1. It was proposed that PKL/SSL2-mediated chromatin remodeling negatively regulates auxin-mediated LR formation in Arabidopsis.

UniProt Gene Name

PKL

UniProt Synonym Gene Names

; AtCHR6

UniProt Protein Name

CHD3-type chromatin-remodeling factor PICKLE

UniProt Synonym Protein Names

Protein CHROMATIN REMODELING 6

UniProt Primary Accession

Q9S775

UniProt Secondary Accession

Q0WNM8

UniProt Related Accession

Q9S775

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

CHD3-type chromatin-remodeling factor PICKLE (PKL), Recombinant Protein

Cat *RP00015*

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)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

UniProt Comments

Chromatin remodeling factor that represses the expression of embryonic trait genes (such as NFYB9/LEC1) upon and after seed germination and thus enables the developmental switch to post-germinative growth. Silences some MADS-box proteins such as PHE1 and PHE2. Plays a role during carpel differentiation. Regulates late processes in cytokinin signaling.

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY