

Probable MYST-like histone acetyltransferase 1 (HAG4), Recombinant Protein

Cat *RP01833*

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* Probable MYST-like histone acetyltransferase 1 (HAG4)

Product Gene Name

HAG4 recombinant protein

Product Synonym Gene Name

HAG4

Purity

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

Sequence

MGSSADTETA MIIATPASNH NNPATNGGDA NQNHTSGAIL ALTNSEDAS KKRRMGVLPL EVGTRVMCQW
RDGKYHPVKV IERRKNYNGG HNDYEEYVHY TEFNRRLEDEW IKLEQLDLDS VECALDEKVE DKVTSCLKMTR
HQRKIDETH VEGHEELDAA SLREHEEFTK VKNIATIELG KYEIETWYFS PFPPEYNDVCV KLFFCEFCLS
FMKRKEQLQR HMRKCDLKHP PGDEIYRSST LSMFEVDGKK NKVYAQNLCY LAKLFLDHKT LYYDVDLFLF
YILCECDDRG CHMVGYSKE KHSEEAYNLA CILTLPYQR KGYGKFLIAF SYELSKKEGK VGTPERPLSD
LGLVSYRGYW TRILLDILKK HKGNISIKEL SDMTAIAED ILSTLQSLEL IQYRKGQHVI CADPKVLDRH
LKAAGRGGLD VDVSKMIWTP YKEQS

Sequence Positions

1-445, Full length protein

Format

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

Host

E Coli or *Yeast* or *Baculovirus* or *Mammalian Cell*

Molecular Weight

51,438 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_201266.1

NCBI GI

15237745

NCBI GenBank Nucleotide

NM_125857.3

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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

NCBI GeneID

836582

NCBI Official Full Name

histone acetyltransferase of the MYST family 1

NCBI Official Symbol

HAM1

NCBI Official Synonym Symbols

histone acetyltransferase of the MYST family 1; MUB3.13; MUB3_13

NCBI Protein Information

histone acetyltransferase of the MYST family 1

NCBI Summary

Encodes an enzyme with histone acetyltransferase activity. HAM1 primarily acetylate histone H4, but also display some ability to acetylate H3. Prior acetylation of lysine 5 on histone H4 reduces radioactive acetylation by either HAM1. HAM1 acetylates histone H4 lysine 5.

UniProt Gene Name

HAM1

UniProt Protein Name

Histone acetyltransferase of the MYST family 1

UniProt Synonym Protein Names

Histone acetyltransferase of the GNAT/MYST superfamily 4

UniProt Primary Accession

Q9FLF7

UniProt Secondary Accession

C0SVV9

UniProt Related Accession

Q9FLF7

UniProt Comments

Histone acetyltransferase which may be involved in transcriptional activation. Acetylates 'Lys-5' of histone H4 (H4K5ac) (PubMed:17877703, PubMed:19040736, PubMed:22170978, PubMed:23273925). Essential for gametophyte development (PubMed:19040736). Involved in DNA repair after UV-B exposure (PubMed:22170978). Negative regulator of flowering controlling the H4K5ac levels in the FLC chromatin (PubMed:23273925).

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