

Probable histone H2A variant 3 (Os03g0743400, LOC_Os03g53190), Recombinant Protein

Cat RP14131

Size 0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 1

mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Species Oryza sativa subsp. japonica (Rice)

Full Product Name

Recombinant Oryza sativa subsp. japonica Probable histone H2A variant 3 (Os03g0743400, LOC_Os03g53190)

Product Gene Name

Os03g0743400 recombinant protein

Product Synonym Gene Name

Os03g0743400; LOC_Os03g53190

Purity

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

Sequence

MAGKGGKGLL AAKTTAAKSA EKDKGKKAPV SRSSRAGLQF PVGRIHRQLK QRTQANGRVG ATAAVYSAAI
LEYLTAEVLE LAGNASKDLK VKRITPRHLQ LAIRGDEELD TLIKGTIAGG GVIPHIHKS L INKSSKE

Sequence Positions

1-137, 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

14,459 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

Probable histone

NCBI Accession

XP_015630918.1

NCBI GI

1002253366

NCBI GenBank Nucleotide

XM_015775432.1

NCBI GeneID

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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(Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 1

4334071 mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg
(Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-
Cell)

NCBI Official Full Name

probable histone H2A variant 3

NCBI Official Symbol

LOC4334071

NCBI Official Synonym Symbols

OJ1365_D05.1

NCBI Protein Information

probable histone H2A variant 3

UniProt Gene Name

Os03g0743400

UniProt Protein Name

Probable histone H2A variant 3

UniProt Primary Accession

Q84MP7

UniProt Secondary Accession

Q10D30

UniProt Related Accession

Q84MP7

UniProt Comments

Variant histones H2A are synthesized throughout the cell cycle and are very different from classical S-phase regulated H2A. May replace conventional H2A in a subset of nucleosomes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling .

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