

Protein HAPLESS 2-A (HAP2A), Recombinant Protein

Cat *RP12408*

Size 0.5 mg (*E-Coli*)/ 0.05 mg (*Baculovirus*)/ 0.5 mg (*Yeast*)/ 0.05 mg
(*Mammalian-Cell*)/ 1 mg (*E-Coli*)/ 0.1 mg (*Baculovirus*)/ 1 mg
(*Yeast*)/ 0.1 mg (*Mammalian-Cell*)

Species

Oryza sativa subsp. *japonica* (Rice)

Full Product Name

Recombinant *Oryza sativa* subsp. *japonica* Protein HAPLESS 2-A (HAP2A), partial

Product Gene Name

HAP2A recombinant protein

Product Synonym Gene Name

HAP2A

Purity

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

Sequence

LHQEGLFDPL YDWWGLEPDD DYRARRRHQK GRHHRHHHDH RHRHGHSHGD HHHHYHGGHH
QRRRHHHPPA WDVEGHHHDR QQHSHEAGRN HHRGYGEVVA AGAAPLRLDR ASRPGQTEVD A
VVEYRERRSR HERHGGHGHR DGHYSPSV

Sequence Positions

574-722; Provide the complete intracellular domain.

Format

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

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

81,604 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 HAPLESS

NCBI Accession

XP_015638244.1

NCBI GI

1002267846

NCBI GenBank Nucleotide

XM_015782758.1

NCBI GeneID

4338255

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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(Yeast)/ 0.1 mg (Mammalian-Cell)

NCBI Official Full Name

protein HAPLESS 2-A

NCBI Official Symbol

LOC4338255

NCBI Official Synonym Symbols

HAP2A; OsJ_17850

NCBI Protein Information

protein HAPLESS 2-A

UniProt Gene Name

HAP2A

UniProt Protein Name

Protein HAPLESS 2-A

UniProt Primary Accession

Q5W6B9

UniProt Secondary Accession

A0A0N7KKF6; B9FNK2

UniProt Related Accession

Q5W6B9

UniProt Comments

Required for male fertility. Plays a role in pollen tube guidance and successful gamete attachment. Essential for the fusion of gametes during double fertilization, where one male gamete fuses with the egg to produce a zygote, and another male gamete fuses with the central cell to produce the endosperm (PubMed:20333238). Mediates the fusion of cell membranes. Not required for pollen tube outgrowth .

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