

Glucose-1-phosphate adenyltransferase large subunit 2, chloroplastic/amyloplastic (AGP2), Recombinant Protein

Cat *RP10460*

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*

Species *mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*
Zea mays (Maize)

Full Product Name

Recombinant Zea mays Glucose-1-phosphate adenylyltransferase large subunit 2, chloroplastic/amyloplastic (AGP2)

Product Gene Name

AGP2 recombinant protein

Purity

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

Sequence

FSARGAVSST QCVLTSDAGP DTLVRPNHPF RRYADPNEV AAVILGGGTG TQLFPLTSTR ATPAVPIGGC
YRLIDIPMSN CFNSGINKIF VMTQFNSASL NRHIHRTYLG GGINFTDGSV EVLAATQMPG EAAGWFQGTA
DAVRKFIWVL EDYYKHKAIE HILILSGDQL YRMDYMELVQ KHVDDNADIT LSCAPVGESR ASDYGLVKFD
SSGRVIQFSE KPKGAALEEM KVDTSFLNFA TCTLPAEYPY IASMGVYVFK RDVLLDLLKS RYAEHLDFGS
EILPKALHEH NVQAYVFTDY WEDIGTIRSF FDANMALCEQ PPKFEFYDPK TPFFTSPLYL PPTKSDKCRI
KDAIISHGCF LRECAIEHSI VGVPSRLNSG CELKNTMMMGM ADLYETEDI SLLAEGKVP IGVGENTKIS
NCIIDMNCQG WKERLHNKQR GRSKSPDRPG RRILIRSGIV VVLKNATIKD GTVI

Sequence Positions

48-521, 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

57,989 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

General amino acid permease

NCBI Accession

P55234.1

NCBI GI

1707928

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GeneID
542737
mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

NCBI Official Full Name

Glucose-1-phosphate adenylyltransferase large subunit 2, chloroplastic/amyloplastic

NCBI Official Symbol

AGP2

NCBI Official Synonym Symbols

GRMZM2G027955

NCBI Protein Information

glucose-1-phosphate adenylyltransferase large subunit 2, chloroplastic/amyloplastic

UniProt Gene Name

AGP2

UniProt Protein Name

Glucose-1-phosphate adenylyltransferase large subunit 2, chloroplastic/amyloplastic

UniProt Synonym Protein Names

ADP-glucose pyrophosphorylase; ADP-glucose synthase; AGPase S; Alpha-D-glucose-1-phosphate adenylyltransferase

UniProt Primary Accession

P55234

UniProt Related Accession

P55234

UniProt Comments

This protein plays a role in synthesis of starch. It catalyzes the synthesis of the activated glycosyl donor, ADP-glucose from Glc-1-P and ATP.

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