

Glucose-1-phosphate adenyltransferase large subunit 1, chloroplastic/amyloplastic (SH2), Recombinant Protein

Cat *RP10064*

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 1, chloroplastic/amyloplastic (SH2)

Product Gene Name

SH2 recombinant protein

Purity

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

Sequence

FGGRVAATTQ CILTSDACPE TLHSQTQSSR KNYADANRVS AILGGGTGS QLFPLTSTRA TPAVPVGGCY
RLIDIPMSNC FNSGINKIFV MSQFNSTSLN RHIHRTYLEG GINFADGSVQ VLAATQMPEE PAGWFQGTAD
SIRKFIWVLE DYYSHKSIDN IVILSGDQLY RMNYMELVQK HVEDDADITI SCAPVDESRA SKNGLVKIDH
TGRVLQFFEK PKGADLNSMR VETNFLSYAI DDAQKYPYLA SMGIYVFKKD ALLDLLKSKY TQLHDFGSEI
LPRAVL DHSV QACIFTGYWE DVGTIKSFFD ANLALTEQPS KFDFYDPKTP FFTAPRCLPP TQLDKCKMKY
AFISDGCLLR ECNIEHSVIG VCSRVS SGE LKDSVMMGAD TYETEEEASK LLLAGKVPVG IGRNTKIRNC
IIDMNARIGK NVVITNSKGI QEADHPEEGY YIRSGIVVIL KNATINDGSV I

Sequence Positions

46-516, 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

57,071 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_001121104.1

NCBI GI

189027076

NCBI GenBank Nucleotide

NM_001127632.1

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GeneID
mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
542761

NCBI Official Full Name

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

NCBI Official Symbol

sh2

NCBI Official Synonym Symbols

shrunken-2; GRMZM2G429899

NCBI Protein Information

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

UniProt Gene Name

SH2

UniProt Protein Name

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

UniProt Synonym Protein Names

ADP-glucose pyrophosphorylase; ADP-glucose synthase; AGPase S; Alpha-D-glucose-1-phosphate adenylyltransferase; Shrunken-2

UniProt Primary Accession

P55241

UniProt Related Accession

P55241

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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