Glucose-1-phosphate adenylyltransferase large subunit 1, chloroplastic (ADG2), **Recombinant Protein**



RP01853 Cat

0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg Size

(Yeast)/ 0 02 mg (Raculovirus)/ 0 02 mg (Mammalian-Cell)/ 0 1

mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 Species (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Glucose-1-phosphate adenylyltransferase large subunit 1, chloroplastic (ADG2)

Product Gene Name

ADG2 recombinant protein

Purity

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

Sequence

SSTNFSQKRI LMSLNSVAGE SKVQELETEK RDPRTVASII LGGGAGTRLF PLTKRRAKPA VPIGGAYRLI DVPMSNCINS GINKVYILTQ YNSASLNRHL ARAYNSNGLG FGDGYVEVLA ATQTPGESGK RWFQGTADAV RQFHWLFEDA RSKDIEDVLI LSGDHLYRMD YMDFIQDHRQ SGADISISCI PIDDRRASDF GLMKIDDKGR VISFSEKPKG DDLKAMAVDT TILGLSKEEA EKKPYIASMG VYVFKKEILL NLLRWRFPTA NDFGSEIIPF SAKEFYVNAY LFNDYWEDIG TIRSFFEANL ALTEHPGAFS FYDAAKPIYT SRRNLPPSKI DNSKLIDSII SHGSFLTNCL IEHSIVGIRS RVGSNVQLKD TVMLGADYYE TEAEVAALLA EGNVPIGIGE NTKIQECIID KNARVGKNVI IANSEGIQEA DRSSDGFYIR SGITVILKNS VIKDGVVI

Sequence Positions

55-522, 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

57,674 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

Serine/threonine-rich protein

NCBI Accession

NP_197423.1

NCBI GI#

15239684

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967 E-mail: info@cd-biosci.com Tel: 1-631-637-0420 https://www.cd-biosciences.com/plant-protein/

Glucose-1-phosphate adenylyltransferase large subunit 1, chloroplastic (ADG2), Recombinant Protein



Cat RP01853

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg

(Yeast)/ 0 02 mg (Raculovirus)/ 0 02 mg (Mammalian-Cell)/ 0 1

mg (Baculovirus)/ 1 mg (E-Goli)/ 0.1 mg (Mammalian-Cell)/ 1

NCBI GenBank Nucleotide #
mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

NM 121927.3

NCBI GenelD

832042

NCBI Official Full Name

ADP glucose pyrophosphorylase large subunit 1

NCBI Official Symbol

APL1

NCBI Official Synonym Symbols

ADG2; ADP GLUCOSE PYROPHOSPHORYLASE 2; ADP glucose pyrophosphorylase large subunit 1; ADPG PYROPHOSPHORYLASE; T24G5.120; T24G5_120

NCBI Protein Information

ADP glucose pyrophosphorylase large subunit 1

NCBI Summary

Encodes the large subunit of ADP-glucose pyrophosphorylase which catalyzes the first, rate limiting step in starch biosynthesis. The large subunit plays a regulatory role whereas the small subunit (ApS) is the catalytic isoform. Four isoforms (ApL1-4) have been identified. ApL1 is the major large subunit isoform present in leaves. Mutational analysis of APS1 suggests that APL1 and APL2 can compensate for loss of APS1 catalytic activity, suggesting both have catalytic as well as regulatory functions.

UniProt Gene Name

ADG2

UniProt Synonym Gene Names

APL1

UniProt Protein Name

Glucose-1-phosphate adenylyltransferase large subunit 1, chloroplastic

UniProt Synonym Protein Names

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

UniProt Primary Accession #

P55229

UniProt Secondary Accession

O04929: Q9SXS1

UniProt Related Accession

P55229

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967

Tel: 1-631-637-0420

E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/

Glucose-1-phosphate adenylyltransferase large subunit 1, chloroplastic (ADG2), **Recombinant Protein**



Cat RP01853

0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg Size

(Yeast)/ 0 02 mg (Raculovirus)/ 0 02 mg (Mammalian-Cell)/ 0 1

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

UniProtection (Laculovirus) (2.5 mg (Mammalian-Cell) (Mammalian-Cell) This protein plays a role in synthesis of starch. It catalyzes the synthesis of the activated glycosyl donor, ADPglucose from Glc-1-P and ATP.

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967 Tel: 1-631-637-0420