# Pyruvate, phosphate dikinase regulatory protein 2 (RP2), **Recombinant Protein**



RP00306 Cat

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

(Veast)/ 0 02 ma (Raculovirus)/ 0 02 ma (Mammalian-Cell)/ 0 1

mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg

Arabidopsis thaliana (Mouse-ear cress)

### **Full Product Name**

Recombinant Arabidopsis thaliana Pyruvate, phosphate dikinase regulatory protein 2 (RP2)

### **Product Gene Name**

RP2 recombinant protein

# **Product Synonym Gene Name**

RP2

# **Purity**

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

# Sequence

MNLHGVSGHH EPNSEPPIPT GSSSPKLKIS PKLNRWSRGR ALRSGVKLDR PIPRSDNSPR RQVTEAQPTD EADKKTTAID VEVTAGKSIY LVSDGTGWTA EHSVNAALGQ FEDFSLNRGS SVNTHLFSWV EDEERLIEII KQAAKEGAMC FYTLANPSMA KSAKQACDQL GVLSVDILGP IIEGIASHLG VSPSGLTRGA PGRVKTLNDA YFKRIEAIEF TIKQDDGTLP ENLSKADIVL VGVSRTGKTP LSTYIAQKGY KVANVPFVMG VEPPRTLFQV EPRKVFGLKI QLVVLQAIRR TRVKTLGVDT EAENNYSGID LVRKELDFAS RIYERNPGWA VIDVTNKAIE ETAAVILRLY HDGRDTSTTV PRISKRY

# **Sequence Positions**

1-377, 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

41,386 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

# **NCBI Accession #**

NP\_186769.1

### NCBI GI#

15232061

### 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/

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Cat RP00306

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

(Veast)/ 0 02 ma (Raculovirus)/ 0 02 ma (Mammalian-Cell)/ 0 1

NCBI GenBank Nucleotide # (Mammalian-Cell)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-NM\_110986-4<sub>III</sub>)

**NCBI GeneID** 

821293

**NCBI Official Full Name** 

PPDK regulatory protein 2

**NCBI Official Symbol** 

RP2

**NCBI Official Synonym Symbols** 

AtRP2; PPDK regulatory protein 2; T4P13.11; T4P13\_11

**NCBI Protein Information** 

PPDK regulatory protein 2

**NCBI Summary** 

Encodes a PPDK regulatory protein that has protein kinase activity but lacks protein phosphatase activity towards PPDK (pyruvate orthophosphate dikinase).

**UniProt Gene Name** 

RP2

**UniProt Synonym Gene Names** 

AtRP2; PPDK RP2; PPDK regulatory protein 2

**UniProt Protein Name** 

Pyruvate, phosphate dikinase regulatory protein 2

**UniProt Synonym Protein Names** 

Pyruvate, Pi dikinase regulatory protein 2; AtRP2; PPDK RP2; PPDK regulatory protein 2

**UniProt Primary Accession #** 

Q9MAC9

**UniProt Related Accession #** 

Q9MAC9

**UniProt Comments** 

Bifunctional serine/threonine kinase and phosphorylase involved in the dark/light-mediated regulation of PPDK by catalyzing its phosphorylation/dephosphorylation. Has a much lower phosphotransferase activity than PDRP1 (PubMed:21883547). Can use ADP as a high specificity substrate and GDP as a lower affinity substrate, but has no activity with UDP (PubMed:21414960).

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