

# Polygalacturonase inhibitor 2 (PGIP2), Recombinant Protein

Cat *RP04641*

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

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

## Full Product Name

Recombinant Arabidopsis thaliana Polygalacturonase inhibitor 2 (PGIP2)

## Product Gene Name

PGIP2 recombinant protein

## Product Synonym Gene Name

PGIP2

## Purity

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

## Sequence

KDLCHKDDKT TLLKIKKSLN NPYHLASWDP KTDCCSWYCL ECGDATVNHV VTSIIQDGE ISGQIPPEVG  
DLPYLTSILF RKLNTLTGHI QPTIAKLKNL TFLRLSWTNL TGPVPEFLSQ LKNLEYIDLS FNDLSGSIPS  
SLSSLRKLEY LELSRNKLGT PIPESFGTFS GKVPFLFLSH NQLSGTIPKS LGNPDFYRID LSRNKLQGDA  
SILFGAKKTT WVIDSRNMF QFDLSKVLA KTLNNLDMNH NGITGSIPAE WSKAYFQLLN VSYNRLCGRI  
PKGEYIQRFD SYSFFHNKCL CGAPLPSC

## Sequence Positions

22-330, 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

37,068 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

Polygalacturonase inhibitor

## NCBI Accession #

NP\_196305.1

## NCBI GI #

15240183

## NCBI GenBank Nucleotide #

NM\_120770.4

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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

## NCBI GeneID

830578

## NCBI Official Full Name

polygalacturonase inhibiting protein 2

## NCBI Official Symbol

PGIP2

## NCBI Official Synonym Symbols

ARABIDOPSIS POLYGALACTURONASE INHIBITING PROTEIN 2; ATPGIP2; MOJ9.4; MOJ9\_4; polygalacturonase inhibiting protein 2; POLYGALACTURONASE INHIBITING PROTEIN 2

## NCBI Protein Information

polygalacturonase inhibiting protein 2

## NCBI Summary

Encodes a polygalacturonase inhibiting protein involved in plant defense response. PGIPs inhibit the activity of pectin degrading enzymes such as those produced by fungal pathogens. PGIP2 is induced by fungal infection and methyl jasmonate. Suppressed in the proton sensitive stop1-mutant, but the transcription level was recovered by transformation of STOP2. Knockout mutant showed severe damage in the root tip in low Ca and low pH medium.

## UniProt Gene Name

PGIP2

## UniProt Synonym Gene Names

PGIP-2

## UniProt Protein Name

Polygalacturonase inhibitor 2

## UniProt Synonym Protein Names

Polygalacturonase-inhibiting protein 2; PGIP-2

## UniProt Primary Accession #

Q9M5J8

## UniProt Secondary Accession #

Q9FL58

## UniProt Related Accession #

Q9M5J8

## UniProt Comments

Inhibitor of fungal polygalacturonase. It is an important factor for plant resistance to phytopathogenic fungi.

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