

Absciscic acid receptor PYL4 (PYL4), Recombinant Protein

Cat RP01022

Size 0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 1

mg (E-Coli)/ 0.1 mg (Baculovirus)/ 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 Absciscic acid receptor PYL4 (PYL4)

Product Gene Name

PYL4 recombinant protein

Purity

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

Sequence

MLAVHRPSSA VSDGDSVQIP MMIASFQKRF PSLSRDSTAA RFHTHEVGPN QCCSAVIQEI SAPISTVWSV
VRRFDNPQAY KHFLKSCSVI GGDGDNVGS L RQVHVVSGLP AASSTERLDI LDDERHVISF SVVGGDHRLS
NYRSVTTLHP SPISGTVVVE SYVVDVPPGN TKEETCDFVD VIVRCNLQSL AKIAENTAAE SKKKMSL

Sequence Positions

1-207, 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

22,435 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

Absciscic acid receptor

NCBI Accession

NP_565887.1

NCBI GI

18404709

NCBI GenBank Nucleotide

NM_129387.3

NCBI GenelD

818411

NCBI Official Full Name

PYR1-like 4

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Abscisic acid receptor PYL4 (PYL4), Recombinant Protein

Cat *RP01022*

Size 0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 1

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

NCBI Official Symbol

PYL4

NCBI Official Synonym Symbols

AtPYL4; PYR1-like 4; RCAR10; regulatory components of ABA receptor 10; T19C21.20; T19C21_20

NCBI Protein Information

PYR1-like 4

NCBI Summary

Encodes a member of the PYR (pyrabactin resistance)/PYL(PYR1-like)/RCAR (regulatory components of ABA receptor) family proteins with 14 members. PYR/PYL/RCAR family proteins function as abscisic acid sensors. Mediate ABA-dependent regulation of protein phosphatase 2Cs ABI1 and ABI2.

UniProt Gene Name

PYL4

UniProt Synonym Gene Names

ABIP2; RCAR10

UniProt Protein Name

Abscisic acid receptor PYL4

UniProt Synonym Protein Names

ABI1-binding protein 2; PYR1-like protein 4; Regulatory components of ABA receptor 10

UniProt Primary Accession

O80920

UniProt Related Accession

O80920

UniProt Comments

Receptor for abscisic acid (ABA) required for ABA-mediated responses such as stomatal closure and germination inhibition. Inhibits the activity of group-A protein phosphatases type 2C (PP2Cs) when activated by ABA (PubMed:19624469, PubMed:23844015, PubMed:21658606). Can be activated by both (-)-ABA and (+)-ABA (PubMed:23844015).

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY