

Inorganic phosphate transporter 1-2 (PTH1-2), Recombinant Protein

Cat *RP13619*

Species

Oryza sativa subsp. *japonica* (Rice)

Full Product Name

Recombinant *Oryza sativa* subsp. *japonica* Inorganic phosphate transporter 1-2 (PTH1-2), partial

Product Gene Name

PTH1-2 recombinant protein

Product Synonym Gene Name

PTH1-2

Purity

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

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

57,841 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

Inorganic phosphate transporter

NCBI Accession

XP_015630484.1

NCBI GI

1002252517

NCBI GenBank Nucleotide

XM_015774998.1

NCBI GeneID

4331637

NCBI Official Full Name

inorganic phosphate transporter 1-2

NCBI Official Symbol

LOC4331637

NCBI Official Synonym Symbols

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Inorganic phosphate transporter 1-2 (PTH1-2), Recombinant Protein

Cat *RP13619*

PT1; PT2; OsPT1; OsPT2; PTH1-2; OsJ_009088

NCBI Protein Information

inorganic phosphate transporter 1-2

UniProt Gene Name

PTH1-2

UniProt Synonym Gene Names

PT1; PT2; OsPT2; OsPht1;2

UniProt Protein Name

Inorganic phosphate transporter 1-2

UniProt Synonym Protein Names

H(+)/Pi cotransporter; OsPT1

UniProt Primary Accession

Q8GSD9

UniProt Secondary Accession

Q56UU1; A0A0N7KGL1

UniProt Related Accession

Q8GSD9

UniProt Comments

Low-affinity transporter for inorganic phosphate (Pi) (PubMed:18980647). Involved in internal Pi transport from root to shoot (PubMed:18980647, PubMed:20149131). Responsible for most of the PHR2-mediated accumulation of excess shoot Pi under abundant Pi conditions, but not for PHO2-mediated accumulation of excess shoot Pi (PubMed:20149131). Acts as a H⁺:phosphate symporter (PubMed:18980647).

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY