

Two pore calcium channel protein 1B (TPC1B), Recombinant Protein

Cat *RP17814*

Species

Nicotiana tabacum (Common tobacco)

Full Product Name

Recombinant Nicotiana tabacum Two pore calcium channel protein 1B (TPC1B), partial

Product Gene Name

TPC1B recombinant protein

Product Synonym Gene Name

TPC1B

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

85,147 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

Two pore calcium channel protein

NCBI Accession

NP_001312977.1

NCBI GI

1027859631

NCBI GenBank Nucleotide

NM_001326048.1

NCBI GeneID

107819477

NCBI Official Full Name

two pore calcium channel protein 1B

NCBI Official Symbol

LOC107819477

NCBI Official Synonym Symbols

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Two pore calcium channel protein 1B (TPC1B), Recombinant Protein

Cat *RP17814*

TPC1B; NtTPC1B

NCBI Protein Information

two pore calcium channel protein 1B

UniProt Gene Name

TPC1B

UniProt Synonym Gene Names

NtTPC1B

UniProt Protein Name

Two pore calcium channel protein 1B

UniProt Synonym Protein Names

Voltage-dependent calcium channel protein TPC1B; NtTPC1B

UniProt Primary Accession

Q75VR0

UniProt Related Accession

Q75VR0

UniProt Comments

Functions as a voltage-gated inward-rectifying Ca²⁺ channel (VDCC) across the plasma membrane that mediates sucrose-induced Ca²⁺ influx in autotrophically grown leaf cells. Acts as the major ROS-responsive Ca²⁺ channel and is the possible target of AI-dependent inhibition. Plays a regulatory role in defense responses.

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