

Probable UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase SEC (SEC), Recombinant Protein

Cat *RP00328*

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* Probable UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase SEC (SEC) , partial

Product Gene Name

SEC recombinant protein

Product Synonym Gene Name

SEC

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

110,114 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

Probable UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase

NCBI Accession

NP_187074.1

NCBI GI

15229253

NCBI GenBank Nucleotide

NM_111295.4

NCBI GeneID

819579

NCBI Official Full Name

Tetratricopeptide repeat (TPR)-like superfamily protein

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Probable UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase SEC (SEC), Recombinant Protein

Cat *RP00328*

NCBI Official Symbol

SEC

NCBI Official Synonym Symbols

secret agent; T6K12.14; T6K12_14

NCBI Protein Information

Tetratricopeptide repeat (TPR)-like superfamily protein

NCBI Summary

Has O-linked N-acetyl glucosamine transferase activity. Similar to Arabidopsis SPY gene.

UniProt Gene Name

SEC

UniProt Protein Name

Probable UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase SEC

UniProt Synonym Protein Names

Protein SECRET AGENT

UniProt Primary Accession

Q9M8Y0

UniProt Related Accession

Q9M8Y0

UniProt Comments

O-linked N-acetylglucosamine transferase (OGT) that mediates O-glycosylation of capsid protein (CP) of virus in case of infection by Plum pox virus. OGTs catalyze the addition of nucleotide-activated sugars directly onto the polypeptide through O-glycosidic linkage with the hydroxyl of serine or threonine. Probably acts by adding O-linked sugars to yet unknown proteins. Its OGT activity has been proved in vitro but not in vivo. Required with SPY for gamete and seed development.

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