Probable galacturonosyltransferase-like 1 (GATL1), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP05080*

Size *0.5 mg (E-Coli)/ 0.05 mg (Baculovirus)/ 0.5 mg (Yeast)/ 0.05 mg (Mammalian-Cell)/ 1 mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)*

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Probable galacturonosyltransferase-like 1 (GATL1), partial

Product Gene Name
GATL1 recombinant protein

Product Synonym Gene Name
GATL1

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

Sequence
MSQHLLLLIL LSLLLLHKPI SATTIIQKFK EAPQFYNSAD CPLIDDSESD DDVVAKPIFC SRRAVHVAMT LDAAYIRGSV AAVLSVLQHS SCPENIVFHF VASASADASS LRATISSSFP YLDFTVYVFN VSSVSRLISS SIRSALDCPL NYARSYLADL LPPCVRRVVY LDSDLILVDD IAKLAATDLG RDSVLAAPEY CNANFTSYFT STFWSNPTLS LTFADRKACY FNTGVMVIDL SRWREGAYTS RIEEWMAMQK RMRIYELGSL PPFLLVFAGL IKPVNHRWNQ HGLGGDNFRG LCRDLHPGPV SLLHWSGKGK PWARLDAGRP CPLDALWAPY DLLQTPFALD S

Sequence Positions
1-351

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

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
39,020 Da

Storage
Store at -20℃. For long-term storage, store at -20℃ or -80℃. Store working aliquots at 4℃ for up to one week. Repeated freezing and thawing is not recommended.

Protein Family
Probable galacturonosyltransferase

NCBI Accession
NP_564077.1

NCBI GI
18394719

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NCBI GenBank Nucleotide
NM_101787.3

NCBI GeneID
838512

NCBI Official Full Name
Nucleotide-diphospho-sugar transferases superfamily protein

NCBI Official Symbol
PARVUS

NCBI Official Synonym Symbols
ATGATL1; F18O14.2; F18O14_2; GALACTURONOSYLTRANSFERASE-LIKE 1; GAOLAOZHUANGREN 1; GATL1; GLZ1

NCBI Protein Information
Nucleotide-diphospho-sugar transferases superfamily protein

NCBI Summary
The PARVUS/GLZ1 gene encodes a putative family 8 glycosyl transferase that contributes to xylan biosynthesis. Its gene expression shows good co-variance with the IRX3 gene involved in secondary cell wall synthesis. PARVUS/GLZ1 is predicted to have galacturonosyltransferase activity and may be involved in the formation of the complex oligosaccharide sequence present at the reducing end of xylan. PARVUS is expressed in cells undergoing secondary wall thickening, and parvus mutants have thinner cell walls.

UniProt Gene Name
GATL1

UniProt Synonym Gene Names
GLZ1; PARVUS

UniProt Protein Name
Probable galacturonosyltransferase-like 1

UniProt Synonym Protein Names
Protein GAOLAOZHUANGREN 1; Protein PARVUS

UniProt Primary Accession
Q9LN68

UniProt Secondary Accession
Q8L5Z6; Q8LF94

UniProt Related Accession
Q9LN68

UniProt Comments

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Required for the biosynthesis of the tetrasaccharide primer sequence, beta-D-Xyl-(1,3)-alpha-l-Rha-(1,2)-alpha-D-GalA-(1,4)-D-Xyl, located at the reducing end of glucuronoxylan. Might catalyze the transfer of the reducing Xyl residue onto a protein acceptor in the endoplasmic reticulum, which is then transported to the Golgi where the subsequent additions of sugar residues take place.

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