

Probable beta-1,3-galactosyltransferase 9 (B3GALT9), Recombinant Protein

Cat *RP08639*

Size *0.02 mg/ 0.1 mg/ 5x0.1 mg*

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* Probable beta-1,3-galactosyltransferase 9 (B3GALT9)

Product Gene Name

B3GALT9 recombinant protein

Purity

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

Sequence

MESLP TTVPS KSERRARSSK FSQSSSKPSV IMAFFSCVAW LYVAGRLWQD AENRVVLNNI LKKS YDQKPK
VLTVD DKLMV LGCKDLERRI VETEMELTLA KSQGYLKNLK SGSSSGKKLL AVIGVYSGFG SHLRRNTFRG
SYMPQGDALR KLEERGIVIR FVIGRSPNRG DSLDRKIDEE NQARKDFLIL ENHEEAQEEL AKKV KFFFS A
AVQNWDAEFY IKVDDNIDL LEGLIGLLES RRGQDAAYIG CMKSGEVVAE EGGKWYEPEW WKFGDEKSYF
RHAAGSLIL SKTLAQYVNI NSGSLKTYAF DDTSIGSWMI GVQATYIDN RLCCSSIRQD KVCSVA

Sequence Positions

1-346aa; full length protein

Format

Liquid containing glycerol

Host

Cell Free Expression

Molecular Weight

39,059 Da

Storage

Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

NCBI Accession

NP_180102.3

NCBI GI

79562781

NCBI GenBank Nucleotide

NM_128087.3

NCBI GeneID

817068

NCBI Official Full Name

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Size *0.02 mg/ 0.1 mg/ 5x0.1 mg*

putative beta-1,3-galactosyltransferase 9

NCBI Official Symbol

AT2G25300

NCBI Official Synonym Symbols

T22F11.11; T22F11_11

NCBI Protein Information

putative beta-1,3-galactosyltransferase 9

UniProt Gene Name

HPGT3

UniProt Protein Name

Hydroxyproline O-galactosyltransferase HPGT3

UniProt Synonym Protein Names

Beta-1,3-galactosyltransferase 9Curated

UniProt Entry Name

B3GT9_ARATH

UniProt Primary Accession

Q5XEZ1

UniProt Secondary Accession

Q9SIR3

UniProt Related Accession

Q5XEZ1

UniProt Comments

Possesses hydroxyproline O-galactosyltransferase activity. Transfers galactose from UDP-galactose to hydroxyproline residues in the arabinogalactan proteins (AGPs). Is specific for AGPs containing non-contiguous peptidyl hydroxyproline residues. The addition of galactose onto the peptidyl hydroxyproline residues in AGP core proteins represents the first committed step in arabinogalactan polysaccharide addition. AGP glycans play essential roles in both vegetative and reproductive plant growth.

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