Expansin-A9 (EXPA9), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP12531*

Size *0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 1 mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*

Species
Oryza sativa subsp. japonica (Rice)

Full Product Name
Recombinant Oryza sativa subsp. japonica Expansin-A9 (EXPA9)

Product Gene Name
EXPA9 recombinant protein

Product Synonym Gene Name
EXPA9

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

Sequence
EAAQQWTSAT ATFYGGSDAS GTMGGSCGYG NMYSAGYGTN TTALSSALYG DGASCGACYL VTCDASATRW CKNGTSVTVT ATNYCPPNYS ESGDAGGWCN PPRRHFDMSQ PAWEAIAVYS SGIVPVRYAR TPCRRVGGIR FGIAGHDYYE LVLVTNVAGS GAVAAAWVKG SGTEWLSMSR NWGENWQSNA YLTGQALSFR VQADDGGVVT AYDVAPANWQ FGSTYQSDVN FSY

Sequence Positions
22-254, Full length protein

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

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
26,987 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
Expansin

NCBI Accession
XP_015642130.1

NCBI GI
1002229132

NCBI GenBank Nucleotide
XM_015786644.1

NCBI GeneID

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4327218

NCBI Official Full Name
expansin-A9

NCBI Official Symbol
LOC4327218

NCBI Official Synonym Symbols
EXP9; EXPA9; OsEXP9; OsEXPA9

NCBI Protein Information
expansin-A9

UniProt Gene Name
EXPA9

UniProt Synonym Gene Names
EXP9

UniProt Protein Name
Expansin-A9

UniProt Synonym Protein Names
Alpha-expansin-9; OsEXP9; OsEXPA9; OsaEXPa1.19

UniProt Primary Accession
Q4PR53

UniProt Secondary Accession
Q9XHW9

UniProt Related Accession
Q4PR53

UniProt Comments
May cause loosening and extension of plant cell walls by disrupting non-covalent bonding between cellulose microfibrils and matrix glucans. No enzymatic activity has been found. May be required for rapid internodal elongation in deepwater rice during submergence .

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