Pentatricopeptide Repeat-Containing Protein At3g06430, Chloroplastic (EMB2750) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Pentatricopeptide repeat-containing protein At3g06430, chloroplastic (EMB2750), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Pentatricopeptide repeat-containing protein At3g06430, chloroplastic (EMB2750)
Product Gene Name	EMB2750 recombinant protein
Product Synonym Gene Name	EMB2750
Sequence	AASKSSPGSV TKKRLWKDGE FPGITEPVNQ RRTPIKNVKK KLDRRSKANG WVNTVTETLS DLIAKKQWLQ ALEVFDMLRE QTFYQPKEGT YMKLLVLLGK SGQPNRAQKL FDEMLEEGLE PTVELYTALL AAYTRSNLID DAFSILDKMK SFPQCQPDVF TYSTLLKACV DASQFDLVDS LYKEMDERLI TPNTVTQNIV LSGYGRVGRF DQMEKVLSDM LVSTACKPDV WTMNIILSVF GNMGKIDMME SWYEKFRNFG IEPETRTFNI LIGSYGKKRM YDKMSSVMEY MRKLEFPWTT STYNNIIEAF ADVGDAKNME LTFDQMRSEG MKADTKTFCC LINGYANAGL FHKVISSVQL AAKFEIPENT AFYNAVISAC AKADDLIEME RVYIRMKERQ CVCDSRTFEI MVEAYEKEGM NDKIYYLEQE RQKLMDRTVA TKEMENLPAG
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	55,699 Da
Sequence Positions	37-486, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9SQU6
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for EMB2750 recombinant protein	MBS1482192 is a recombinant protein targeting EMB2750. Also known as Recombinant Arabidopsis thaliana Pentatricopeptide repeat-containing protein At3g06430, chloroplastic (EMB2750). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of EMB2750 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EMB2750. It may not necessarily be applicable to this product.

NCBI GI #	15230719
NCBI GeneID	819817

NCBI Accession #	NP_187294.1
UniProt Primary Accession #	Q9SQU6
UniProt Related Accession #	Q9SQU6
GenBank Nucleotide #	NM_111518.5
NCBI Official Full Name	Tetratricopeptide repeat (TPR)-like superfamily protein
NCBI Official Symbol	PPR2
NCBI Official Synonym Symbols	AtPPR2; EMB2750; embryo defective 2750; F24P17.10; F24P17_10; pentatricopeptide repeat 2
UniProt Protein Name	Pentatricopeptide repeat-containing protein At3g06430, chloroplastic
UniProt Synonym Protein Names	Protein EMBRYO DEFECTIVE 2750
Protein Family	Pentatricopeptide repeat-containing protein
UniProt Gene Name	EMB2750
NCBI Protein Information	Tetratricopeptide repeat (TPR)-like superfamily protein
NCBI Summary for EMB2750	Encodes PPR2, a pentatricopeptide repeat protein. Binds to plastid 23S rRNA and plays an important role in the first mitotic division during gametogenesis and in cell proliferation during embryogenesis.
Research Articles on EMB2750	**1.** AtPPR2 may control the translational process through binding to 23S rRNA to fine-tune plastid function for gametogenesis and embryogenesis.
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