Polycomb Group Protein Embryonic FLOWER 2 (EMF2) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Polycomb group protein EMBRYONIC FLOWER 2 (EMF2), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Polycomb group protein EMBRYONIC FLOWER 2 (EMF2) , partial
Product Gene Name	EMF2 recombinant protein
Product Synonym Gene Name	EMF2
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	71,034 Da
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 Q8L6Y4
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for EMF2 recombinant protein	MBS1425941 is a recombinant protein targeting EMF2. Also known as Recombinant Arabidopsis thaliana Polycomb group protein EMBRYONIC FLOWER 2 (EMF2) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of EMF2 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 EMF2. It may not necessarily be applicable to this product.

NCBI GI #	186531184
NCBI GeneID	835198
NCBI Accession #	NP_001119413.1
UniProt Primary Accession #	Q8L6Y4
UniProt Secondary Accession #	Q53XQ5; Q93V59; Q9LU50; Q9LU51
UniProt Related Accession #	Q8L6Y4
GenBank Nucleotide #	NM_001125941.1
NCBI Official Full Name	VEFS-Box of polycomb protein

NCBI Official Symbol	EMF2
NCBI Official Synonym Symbols	AT5G51240; AtEMF2; CYR1; CYTOKININ RESISTANT 1; EMBRYONIC FLOWER 2; MWD22.18; MWD22_18; VEF2
UniProt Protein Name	Polycomb group protein EMBRYONIC FLOWER 2
Protein Family	Polycomb group protein
UniProt Gene Name	EMF2
NCBI Protein Information	VEFS-Box of polycomb protein
NCBI Summary for EMF2	Polycomb group protein with zinc finger domain involved in negative regulation of reproductive development. Forms a complex with FIE, CLF, and MSI1. This complex modulates the expression of target genes including AG, PI and AP3.
UniProt Comments for EMF2	Polycomb group (PcG) protein. Involved in flowering processes by repressing unknown target genes and preventing reproductive development. Participates in polycomb group (PcG) protein complex-mediated (probably in complex with EMF1) silencing of the flower homeotic genes AGAMOUS (AG), PISTILLATA (PI), and APETALA3 (AP3), as well as of some regulatory genes such as ABSCISIC ACID INSENSITIVE3 (ABI3), LONG VEGETATIVE PHASE1 (LOV1), and FLOWERING LOCUS C (FLC) during vegetative development, by mediating trimethylation of histone 3 lysine 27 on the AG chromatin (H3K27me3). PcG proteins act by forming multiprotein complexes, which are required to maintain the transcriptionally repressive state of homeotic genes throughout development. PcG proteins are not required to initiate repression, but to maintain it during later stages of development. They probably act via the methylation of histones, rendering chromatin heritably changed in its expressibility.
Research Articles on EMF2	**1.** Knock-out mutants in identified candidate genes (CYR1, At1g32360 and RLP48) were isolated and differences in root hair traits in the mutants were confirmed.
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