CRS2-Associated Factor 1, Mitochondrial (AT4G31010) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	CRS2-associated factor 1, mitochondrial (At4g31010), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana CRS2-associated factor 1, mitochondrial (At4g31010)
Product Gene Name	At4g31010 recombinant protein
Product Synonym Gene Name	At4g31010
Sequence	LHDQTISSSR LRDLYNFQSP PPLSSSASEN PDFNQKNNNK KKPKPQYRPP SSLEGVKTVH SDLPFDFRFS YTESCSNVRP IGLREPKYSP FGPDRLDREW TGVCAPAVNP KVESVDGVED PKLEEKRRKV REKIQGASLT EAERKFLVEL CQRNKTKRQV NLGRDGLTHN MLNDVYNHWK HAEAVRVKCL GVPTLDMKNV IFHLEDKTFG QVVSKHSGTL VLYRGRNYDP KKRPKIPLML WKPHEPVYPR LIKTTIDGLS IDETKAMRKK GLAVPALTKL AKNGYYGSLV PMVRDAFLVS ELVRIDCLGL ERKDYKKIGA KLRDLVPCIL VTFDKEQVVI WRGKDYKPPK EDDEYSSFIH RESSIDSDVD LSCSRGAQDS PDETT
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	46,393 Da
Sequence Positions	21-405, 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 Q8VYD9
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for At4g31010 recombinant protein	MBS1430577 is a recombinant protein targeting At4g31010. Also known as Recombinant Arabidopsis thaliana CRS2-associated factor 1, mitochondrial (At4g31010). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of At4g31010 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 At4g31010. It may not necessarily be applicable to this product.

NCBI GI #	22329043
NCBI GeneID	829228
NCBI Accession #	NP_194830.2

UniProt Primary Accession #	Q8VYD9
UniProt Secondary Accession #	O65549; Q94B45
UniProt Related Accession #	Q8VYD9
GenBank Nucleotide #	NM_119251.5
NCBI Official Full Name	RNA-binding CRS1 / YhbY (CRM) domain-containing protein
NCBI Official Symbol	AT4G31010
NCBI Official Synonym Symbols	F6I18.80; F6I18_80; mCSF1; mitochondrial CAF-like splicing factor 1
UniProt Protein Name	CRS2-associated factor 1, mitochondrial
UniProt Gene Name	At4g31010
NCBI Protein Information	RNA-binding CRS1 / YhbY (CRM) domain-containing protein
NCBI Summary for At4g31010	Encodes a nuclear CRM protein required for the processing of many mitochondrial introns. It is involved in the biogenesis of respiratory complexes I and IV in Arabidopsis.
UniProt Comments for At4g31010	May be involved for the splicing of group IIB introns in mitochondrions.
Research Articles on At4g31010	**1.** mCSF1 resides within mitochondria and its functions are essential during embryogenesis; it acts in the splicing of many of the group II intron RNAs in Arabidopsis mitochondria.[mCSF1]
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