

Signal recognition particle 54 kDa protein, chloroplastic (FFC), Recombinant Protein

Cat RP00360

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

mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Species Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Signal recognition particle 54 kDa protein, chloroplastic (FFC)

Product Gene Name

FFC recombinant protein

Purity

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

Sequence

EMFGQLTGGL EAAWSKLGKE EVLTKDNIAE PMRDIRRALL EADVSLPVVR RFVQSVSDQA VGMGVIRGVK
PDQQLVKIVH DELVKLMGGE VSELQFAKSG PTVILLAGLQ GVGKTTVCAK LACYLKKQ GK SCMLIAGDVY
RPAIDQLVI LGEQVGVPVY TAGTDVKPAD IAKQGLKEAK KNNVDVIMD TAGRLQIDKG MMDELKDVKK
FLNPTEVLLV VDAMTGQEEA ALVTTFNVEI GITGAILTKL DGDSRGGGAAL SVKEVSGKPI KLVGRGERME
DLEPFYPDRM AGRILGMGDV LSFVEKATEV MRQEDAEDLQ KKIMSAKFDF NDFLKQTRAV AKMGSMTRVL
GMIPGMGKVS PAQIREAEKN LLVMEAMIEV MTPEERERPE LLAESPERRK RIAKDSGKTE QQVSALVAQI
FQMRVKMKNL MGVMEGGSIP ALSGLEDALK AEQKAPPGTA RRKRKADSRK KFVESASSKP GPRGFGSGN

Sequence Positions

76-564, 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

61,232 Da

Storage

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

NCBI Accession

NP_196014.1

NCBI GI

15237580

NCBI GenBank Nucleotide

NM_120476.5

NCBI GenID

830273

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Signal recognition particle 54 kDa protein, chloroplastic (FFC), Recombinant Protein

Cat *RP00360*

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

mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
chloroplast signal recognition particle 54 kDa subunit

NCBI Official Symbol

CPSRP54

NCBI Official Synonym Symbols

54 CHLOROPLAST PROTEIN; 54CP; chloroplast signal recognition particle 54 kDa subunit; F8F6.150; F8F6_150; FFC; FIFTY-FOUR CHLOROPLAST HOMOLOGUE; SIGNAL RECOGNITION PARTICLE 54 KDA SUBUNIT; SIGNAL RECOGNITION PARTICLE 54 KDA SUBUNIT CHLOROPLAST PROTEIN; SR

NCBI Protein Information

chloroplast signal recognition particle 54 kDa subunit

NCBI Summary

mutant has Yellow first leaves; Chloroplast Signal Recognition Particle Subunit

UniProt Gene Name

FFC

UniProt Synonym Gene Names

CPSRP54; 54 chloroplast protein; 54CP; SRP54; cpSRP54

UniProt Protein Name

Signal recognition particle 54 kDa protein, chloroplastic

UniProt Synonym Protein Names

FFC

UniProt Primary Accession

P37107

UniProt Secondary Accession

O82570

UniProt Related Accession

P37107

UniProt Comments

Involved in cotranslational and post-translational sorting of thylakoid proteins. Binds GTP specifically. Activates the GTPase activity of CPFTSY when bound together. Required for light-harvesting chlorophyll a/b-binding protein (LHCP) integration into thylakoids.

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