

Translation initiation factor IF-1, chloroplastic (At4g11175), Recombinant Protein

Cat *RP09908*

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

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

Full Product Name

Recombinant Arabidopsis thaliana Translation initiation factor IF-1, chloroplastic (At4g11175)

Product Gene Name

At4g11175 recombinant protein

Purity

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

Sequence

QRASGGRRGGA NRSKPAKPQV KEGSNKTVIE GLVTESLPNG MFRVDLENGD NILGYICGKI RKNFIRILPG
DKVKVEMSVY DSTKGRIIFR MSSRD

Sequence Positions

47-141, 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

15,733 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_192856.1

NCBI GI

15237084

NCBI GenBank Nucleotide

NM_117188.5

NCBI GeneID

826719

NCBI Official Full Name

Nucleic acid-binding, OB-fold-like protein

NCBI Official Symbol

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Translation initiation factor IF-1, chloroplastic (At4g11175), Recombinant Protein

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Size 0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg
(Yeast)/ 0.02 mg (Baculovirus)/ 1 mg (E-Coli)/ 0.02 mg

AT4G11175 (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg

(Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-

Cell)
T22B4.1; T22B4_1

NCBI Official Synonym Symbols

NCBI Protein Information

Nucleic acid-binding, OB-fold-like protein

UniProt Gene Name

At4g11175

UniProt Protein Name

Translation initiation factor IF-1, chloroplastic

UniProt Primary Accession

O82499

UniProt Secondary Accession

Q56YK9; Q8GY59; Q9T016

UniProt Related Accession

O82499

UniProt Comments

One of the essential components for the initiation of protein synthesis. Stabilizes the binding of IF-2 and IF-3 on the 30S subunit to which N-formylmethionyl-tRNA(fMet) subsequently binds. Helps modulate mRNA selection, yielding the 30S pre-initiation complex (PIC). Upon addition of the 50S ribosomal subunit IF-1, IF-2 and IF-3 are released leaving the mature 70S translation initiation complex.

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