

Photosystem II CP47 chlorophyll apoprotein (rpl33), Recombinant Protein

Cat *RP15024*

Size *0.02 mg/ 0.1 mg/ 5x0.1 mg*

Species

Solanum lycopersicum (Tomato) (*Lycopersicon esculentum*)

Full Product Name

Recombinant *Solanum lycopersicum* Photosystem II CP47 chlorophyll apoprotein

Product Gene Name

rpl33 recombinant protein

Purity

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

Sequence

MGLPWYRVHT VVLNDPGRLL SVHIMHTALV AGWAGSMALY ELAVFDPSDP VLDPMWRQGM FVIPFMTRLG
ITNSWGGWSI TGGTVTNPGI WSYEGVAGAH IVFSGLCFLA AIWHWVYWDL EIFCDERTGK PSLDLPKIFG
IHLFLSGVAC FGFGAFHVTG LYGPGIWVSD PYGLTGKVQP VNPAWGVEGF DPFVPGGIAS HHIAAGTLGI
LAGLFHLSVR PPQRLYKGLR MGNIETVLSS SIAAVFFAAF VVAGTMWYGS ATTPIELFGP TRYQWDQGYF
QQEIYRRVSA GLAENQSLSE AWSKIPEKLA FYDYIGNNPA KGGLFRAGSM DNGDGIAGVW LGHPIFRDKE
GRELFVRRMP TFFETFPVVL VDGDGIVRAD VPFRRAESKY SVEQVGVTVE FYGGELNGVS YSDPATVKKY
ARRAQLGEIF ELDRATLKSD GVFRSSPRGW FTFGHASFAL LFFFGHIWHG ARTLFRDVFA GIDPDLDQV
EFGAFQKLGD PTTKRQAA

Sequence Positions

1-508aa; full length protein

Format

Liquid containing glycerol

Host

Cell Free Expression

Molecular Weight

56,015 Da

Storage

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

Protein Family

50S ribosomal protein

NCBI Accession

AP_004954.1

NCBI GI

544170698

NCBI GenBank Nucleotide

AC_000188.1

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Size *0.02 mg/ 0.1 mg/ 5x0.1 mg*

NCBI GenelD

3950382

NCBI Official Full Name

photosystem II 47 kDa protein (chloroplast)

NCBI Official Symbol

rpl33

NCBI Protein Information

ribosomal protein L33

UniProt Gene Name

psbB

UniProt Protein Name

Photosystem II CP47 reaction center protein

UniProt Synonym Protein Names

PSII 47 kDa protein

UniProt Entry Name

PSBB_SOLLC

UniProt Primary Accession

Q2MI75

UniProt Related Accession

Q2MI79

UniProt Comments

One of the components of the core complex of photosystem II (PSII). It binds chlorophyll and helps catalyze the primary light-induced photochemical processes of PSII. PSII is a light-driven water:plastoquinone oxidoreductase, using light energy to abstract electrons from H₂O, generating O₂ and a proton gradient subsequently used for ATP formation.

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