Datasheet for ABIN3087538

RRP1B Protein (AA 1-758) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	RRP1B
Protein Characteristics:	AA 1-758
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RRP1B protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAPAMQPAEI QFAQRLASSE KGIRDRAVKK LRQYISVKTQ RETGGFSQEE LLKIWKGLFY CMWVQDEPLL QEELANTIAQ LVHAVNNSAA QHLFIQTFWQ TMNREWKGID RLRLDKYYML IRLVLRQSFE VLKRNGWEES RIKVFLDVLM KEVLCPESQS PNGVRFHFID IYLDELSKVG GKELLADQNL KFIDPFCKIA AKTKDHTLVQ TIARGVFEAI VDQSPFVPEE TMEEQKTKVG DGDLSAEEIP ENEVSLRRAV SKKKTALGKN HSRKDGLSDE RGRDDCGTFE DTGPLLQFDY KAVADRLLEM TSRKNTPHFN RKRLSKLIKK FQDLSEGSSI SQLSFAEDIS ADEDDQILSQ GKHKKKGNKL LEKTNLEKEK GSRVFCVEEE DSESSLQKRR RKKKKKHHLQ PENPGPGGAA PSLEQNRGRE PEASGLKALK ARVAEPGAEA TSSTGEESGS EHPPAVPMHN KRKRPRKKSP RAHREMLESA VLPPEDMSQS GPSGSHPQGP RGSPTGGAQL LKRKRKLGVV PVNGSGLSTP AWPPLQQEGP PTGPAEGANS HTTLPQRRRL QKKKAGPGSL ELCGLPSQKT ASLKKRKKMR VMSNLVEHNG VLESEAGQPQ ALGSSGTCSS LKKQKLRAES DFVKFDTPFL PKPLFFRRAK

SSTATHPPGP AVQLNKTPSS SKKVTFGLNR NMTAEFKKTD KSILVSPTGP SRVAFDPEQK PLHGVLKTPT SSPASSPLVA KKPLTTTPRR RPRAMDFF

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

Product Details

Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	RRP1B
Alternative Name:	RRP1B (RRP1B Products)
Background:	Ribosomal RNA processing protein 1 homolog B (RRP1-like protein B),FUNCTION: Positively regulates DNA damage-induced apoptosis by acting as a transcriptional coactivator of proapoptotic target genes of the transcriptional activator E2F1 (PubMed:20040599). Likely to play a role in ribosome biogenesis by targeting serine/threonine protein phosphatase PP1 to the nucleolus (PubMed:20926688). Involved in regulation of mRNA splicing (By similarity). Inhibits SIPA1 GTPase activity (By similarity). Involved in regulating expression of extracellular matrix genes (By similarity). Associates with chromatin and may play a role in modulating chromatin structure (PubMed:19710015). {ECO:0000250|UniProtKB:Q91YK2, ECO:0000269|PubMed:19710015, ECO:0000269|PubMed:20040599, ECO:0000269|PubMed:20926688}., FUNCTION: (Microbial infection) Following influenza A virus (IAV) infection, promotes viral mRNA transcription by facilitating the binding of IAV RNA-directed RNA polymerase to capped mRNA. {ECO:0000269|PubMed:26311876}.
Molecular Weight:	84.4 kDa
UniProt:	Q14684

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce

Application Details

	something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months