

Datasheet for ABIN3115115
PPP1R3A Protein (AA 1-1122) (Strep Tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	PPP1R3A
Protein Characteristics:	AA 1-1122
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPP1R3A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MEPSEVPSQI SKDNFLEVPN LSDSLCEDEE VTFQPGFSPQ PSRRGSDSSE DIYLDTPSSG TRRVSFADSF GFNLVSVKEF DCWELPSAST TFDLGTDFH TEEYVLAPLF DLPSSKEDLM QQLQIQKAIL ESTESLLGST SIKGIIRVLN VSFEKLVYVR MSLDDWQTHY DILAEYVPNS CDGETDQFSF KIVLVPPYQK DGSKVEFCIR YETSVGTFWS NNGTNYTFI CQKKEQEPEP VKPWKEVPNR QIKGCLKVKS SKEESSVTSE ENNFENPKNT DTYIPTIICS HEDKEDLEAS NRNVKDVNRE HDEHNEKELE LMINQHLIRT RSTASRDERN TFSTDPVNFP NKAEGLEKKQ IHGEICTDLF QRSLSPSSSA ESSVKGDFYC NEKYSSGDDC THQPSEETTS NMGEIKPSLG DTSSDELVQL HTGSKEVLDD NANPAHGNGT VQIPCPSSDQ LMAGNLNKKH EGGAKNIEVK DLGCLRRDFH SDTSACLKES TEEGSSKEDY YGNGKDDEEQ RIYLGVNEKQ RKNFQTILHD QERKMGNPKI SVAGIGASNR DLATLLSEHT AIPTRAITAD VSHSPRTNLS WEEAVLTPEH HHLTSEGSAL GGITGQVCSS RTGNVLRNDY LFQVEEKSGG INSEDQDQNSP QHKQSWNVLE SQGKSRENKT NITEHIKGQT DCEDVWGKRD NTRSLKATTE ELFTCQETVC CELSSLADHG
-----------	---

ITEKAEAGTA YIIKTTSEST PESMSAREKA IIAKLPQETA RSDRPIEVKE TAFDPHEGRN
DDSHYTLQCQR DTVGVIIYDND FEKESRLGIC NVRVDEMEKE ETMSMYNPRK THDREKCGTG
NITSVEESSW VITEYQKATS KLDLQLGMLP TDKTVFSENRLRQVQELSK KTDSDAIVHS
AFNSDTNRAP QNSSPFSKHH TEISVSTNEQ AIAVENAVTT MASQPISTKS ENICNSTREI
QGIEKHPYPE SKPEEVSRS GIVTSGSRKE RCIGQIFQTE EYSVEKSLGP MILINKPLEN
MEEARHENEG LVSSGQSLYT SGEKESDSSA STSLPVEESQ AQGNESLFSK YTNSKIPYFL
LFLIFLITVY HYDLMIGLTF YVLSLSWLSW EEGRQKESVK KK

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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:

Product Details

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

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	PPP1R3A
Alternative Name:	PPP1R3A (PPP1R3A Products)
Background:	Protein phosphatase 1 regulatory subunit 3A (Protein phosphatase 1 glycogen-associated regulatory subunit) (Protein phosphatase type-1 glycogen targeting subunit) (RG1),FUNCTION: Seems to act as a glycogen-targeting subunit for PP1. PP1 is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Plays an important role in glycogen synthesis but is not essential for insulin activation of glycogen synthase (By similarity). {ECO:0000250}.
Molecular Weight:	125.8 kDa
UniProt:	Q16821
Pathways:	Cellular Glucan Metabolic Process

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
--------------------	--

Application Details

	guarantee though.
Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process