

Datasheet for ABIN3094019

## PPP1R9A Protein (AA 1-1098) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	PPP1R9A
Protein Characteristics:	AA 1-1098
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPP1R9A protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MLKTESSGER TTLRSASPHR NAYRTEFQAL KSTFDKPKSD GEQKTKEGEG SQQSRGRKYG</p> <p>SNVNRIKNLF MQMGMEPNEN AAVIAKTRGK GGHSSPQRRM KPKEFLEKTD GSVVKLESSV</p> <p>SERISRFDTM YDGPSYSKFT ETRKMFERSV HESGQNNRYS PKKEKAGGSE PQDEWGGSKS</p> <p>NRGSTDSLDS LSSRTEAVSP TVSQLSAVFE NTDSPSAIIS EKAENNEYSV TGHYPLNLPS</p> <p>VTVTNLDTFG HLKDSNSWPP SNKRGVDTED AHKSNATPVP EVASKSTSLA SIPGEEIQQS</p> <p>KEPEDSTSNO QTPDSIDKDG PEEPCAESKA MPKSEIPSPQ SQLLEDAEAN LVGREAAKQQ</p> <p>RKELAGGDFT SPDASASSCG KEVPEDSNNF DGSHVYMHSD YNVYRVRSTRY NSDWGETGTE</p> <p>QDEEEDSDEN SYYQPDMEYS EIVGLPEEEE IPANRKIKFS SAPIKVFNNTY SNEDYDRRND</p> <p>EVDPAASAE YELEKRVEKL ELFPVELEKD EDGLGSIIG MGVGADAGLE KLGIFVKTVT</p> <p>EGGAAQRDGR IQVNDQIVEV DGISLVGVGTQ NFAATVLRNT KGNVRFVIGR EKPQGVSEVA</p> <p>QLISQTLEQE RRQRELLEQH YAQYDADDDE TGEYATDEEE DEVGPVLPQS DMAIEVFELP</p>

ENEDMFSPSE LDTSKLSHKF KELQIKHAVT EAEIQKLKTK LQAAENEKVR WELEKTQLQQ  
NIEENKERML KLESYWIEAQ TLCHTVNEHL KETQSQYQAL EKKYNKAKKL IKDFQQKELD  
FIKRQEAERK KIEDLEKAHL VEVQGLQVRI RDLEAEVFRL LKQNGTQVNN NNNIFERRTS  
LGEVSKGDTM ENLDGKQTSC QDGLSQDLNE AVPETERLDS KALKTRAQLS VKNRRQRPSR  
TRLYDSVSST DGEDSLERKN FTFNDDFSPS STSSADLSGL GAEPKTPGLS QSLALSSDES  
LDMIDDEILD DGQSPKHSQC QNRAVQEWSV QQVSHWLMSL NLEQYVSEFS AQNITGEQLL  
QLDGNKLKAL GMTASQDRAV VKKKLKEMKM SLEKARKAQE KMEKQREKLR RKEQEQMQRK  
SKKTEKMTST TAEGAGEQ

**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.**

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### 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:

## Product Details

- 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®).

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

Grade: custom-made

## Target Details

Target: PPP1R9A

Alternative Name: PPP1R9A ([PPP1R9A Products](#))

Background: Neurabin-1 (Neurabin-I) (Neural tissue-specific F-actin-binding protein I) (Protein phosphatase 1 regulatory subunit 9A),FUNCTION: Binds to actin filaments (F-actin) and shows cross-linking activity. Binds along the sides of the F-actin. May be involved in neurite formation. Inhibits protein phosphatase 1-alpha activity (By similarity). {ECO:0000250}.

Molecular Weight: 123.3 kDa

UniProt: [Q9ULJ8](#)

## 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.

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## Application Details

	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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months