

Datasheet for ABIN3137451

## PRPF40A Protein (AA 1-953) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	PRPF40A
Protein Characteristics:	AA 1-953
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRPF40A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AlIcE®
Sequence:	MRPGTGAERG GLMVSEMESQ PPSRGPGDGE RRLSGSNLCS SSWVSADGFL RRRPSMGHPG MHYAPMGMHP MGQRANMPPV PHGMMPQMMP PMGGPPMGQM PGMMSSVMSG MMMSHMSQAS MQPALPPGVN SMDVAAGAAS GAKSMWTEHK SPDGRYYYYN TETKQSTWEK PDDLKTPAEQ LLSKCPWKEY KSDSGKPYYY NSQTKESRWA KPKELEDLEG YQNTIVAGGL ITKSNLHAMI KAEESKQEE CTTASTAPVP TTEIPTTMST MAAAEAAAAV VAAAAAAAAA ANANTSTTPT NTVGSPVPAP EPEVTSIVAT AVDNENTVTV STEEQAQLAN TTAIQDLSGD ISSNTGEEPA KQETVSDFTP KKEEESQPA KKTYTWNTKE EAKQAFKELL KEKRVPNAS WEQAMKMIIN DPRYSALAKL SEKKQAFNAY KVQTEKEEKE EARSKYKEAK ESFQRFLNH EKMTSTTRYK KAEQMFGEME VVNAISERDR LEIYEDVLFF LSKKEKEQAK QLRKRNWEAL KNILDNMANV TYSTTWSEAQ QYLMDNPTFA EDEELQNMDK EDALICFEEH IRALEKEEEE EKQKTLLRER RRQRKNRESF QIFLDELHEH GQLHSMSSWM ELYPTISSDI RFTNMLGQPG

STALDLFKFY VEDLKARYHD EKIIKDILK DKGfVVEVNT TFEDFVAIIS STKRSTTLDA  
GNIKLA FNSL LEKAEARE REKEEARKMK RKESAFK SML KQATPPIELD AVWEDIRERF  
VKEPAFEDIT LESERKRIFK DFMHVLEHEC QHHHSKNKKH SKKSKKHHRK RSRSRSGSES  
DDDDSHSKKK RQRSESHSAS ERSSSAESER SYKKS KKHKK KSKKRRHKSD SPESDTEREK  
DKKEKDRDSE KDRSRQRSES KHKSPKKKTG KDSGNWDTSG SELSEGELEK RRRTLLEQLD DDQ

**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:

- 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.

## Product Details

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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

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Target:	PRPF40A
Alternative Name:	Prpf40a ( <a href="#">PRPF40A Products</a> )
Background:	Pre-mRNA-processing factor 40 homolog A (Formin-binding protein 11) (FBP-11) (Formin-binding protein 3),FUNCTION: Binds to WASL/N-WASP and suppresses its translocation from the nucleus to the cytoplasm, thereby inhibiting its cytoplasmic function. Plays a role in the regulation of cell morphology and cytoskeletal organization. Required in the control of cell shape and migration. May play a role in cytokinesis. May be involved in pre-mRNA splicing. {ECO:0000269 PubMed:14697212}.
Molecular Weight:	108.5 kDa
UniProt:	<a href="#">Q9R1C7</a>

## Application Details

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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:	<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>

## Application Details

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Restrictions: For Research Use only

## Handling

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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