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# Datasheet for ABIN3086324 PPP6C Protein (AA 1-305) (Strep Tag)





### Overview

Quantity:	1 mg
Target:	PPP6C
Protein Characteristics:	AA 1-305
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPP6C protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

## Product Details

Sequence:	MAPLDLDKYV EIARLCKYLP ENDLKRLCDY VCDLLLEESN VQPVSTPVTV CGDIHGQFYD
	LCELFRTGGQ VPDTNYIFMG DFVDRGYYSL ETFTYLLALK AKWPDRITLL RGNHESRQIT
	QVYGFYDECQ TKYGNANAWR YCTKVFDMLT VAALIDEQIL CVHGGLSPDI KTLDQIRTIE
	RNQEIPHKGA FCDLVWSDPE DVDTWAISPR GAGWLFGAKV TNEFVHINNL KLICRAHQLV
	HEGYKFMFDE KLVTVWSAPN YCYRCGNIAS IMVFKDVNTR EPKLFRAVPD SERVIPPRTT TPYFL
	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:	have a special request, please contact us. Key Benefits:
Characteristics:	

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- 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:

- 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®):
	<ol> <li>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.</li> <li>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.</li> </ol>
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)

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## Product Details

Grade:

Crystallography grade

# Target Details

Target:	PPP6C
Alternative Name:	PPP6C (PPP6C Products)
Background:	Serine/threonine-protein phosphatase 6 catalytic subunit (PP6C) (EC 3.1.3.16) [Cleaved into:
	Serine/threonine-protein phosphatase 6 catalytic subunit, N-terminally processed],FUNCTION:
	Catalytic subunit of protein phosphatase 6 (PP6) (PubMed:17079228, PubMed:29053956,
	PubMed:32474700). PP6 is a component of a signaling pathway regulating cell cycle
	progression in response to IL2 receptor stimulation (PubMed:10227379). N-terminal domain
	restricts G1 to S phase progression in cancer cells, in part through control of cyclin D1
	(PubMed:17568194). During mitosis, regulates spindle positioning (PubMed:27335426). Dowr
	regulates MAP3K7 kinase activation of the IL1 signaling pathway by dephosphorylation of
	MAP3K7 (PubMed:17079228). Participates also in the innate immune defense against viruses
	by desphosphorylating RIGI, an essential step that triggers RIGI-mediated signaling activation
	(PubMed:29053956). Also regulates innate immunity by acting as a negative regulator of the
	cGAS-STING pathway: mediates dephosphorylation and inactivation of CGAS and STING1
	(PubMed:32753499, PubMed:32474700). CGAS dephosphorylation at 'Ser-435' impairs its
	ability to bind GTP, thereby inactivating it (PubMed:32474700).
	{ECO:0000269 PubMed:10227379, ECO:0000269 PubMed:17079228,
	ECO:0000269 PubMed:17568194, ECO:0000269 PubMed:27335426,
	ECO:0000269 PubMed:29053956, ECO:0000269 PubMed:32474700,
	ECO:0000269 PubMed:32753499}.
Molecular Weight:	35.1 kDa
UniProt:	000743
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

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	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

guarantee though.

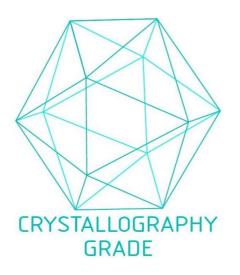
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	modifications.
	During lysate production, the cell wall and other cellular components that are not required for
	protein production are removed, leaving only the protein production machinery and the
	mitochondria to drive the reaction. During our 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!
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)

## Images



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process

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