Datasheet for ABIN3086830 PWWP2B Protein (AA 1-590) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	PWWP2B
Protein Characteristics:	AA 1-590
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PWWP2B protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MEPRAGCRLP VRVEQVVNGA LVVTVSCGER SFAGILLDCT KKSGLFGLPP LAPLPQVDES
	PVNDSHGRAP EEGDAEVMQL GSSSPPPARG VQPPETTRPE PPPPLVPPLP AGSLPPYPPY
	FEGAPFPHPL WLRDTYKLWV PQPPPRTIKR TRRRLSRNRD PGRLILSTIR LRPRQVLCEK
	CKSTLSPPEA SPGPPAAPRA RRRLGSGPDR ELRKPEEPEN GEPTAAATAR RSKRERREED
	RAPAEQVPRS PVIKISYSTP QGKGEVVKIP SRVHGSLEPF RPQQAPQDDG SQDPEVLDRE
	SRDRPSCAPS ASIPKLKLTR PVPAGADLPP PKIRLKPHRL GDSEHEPVYR AELVGELNGY
	LRDSSPAPCA DGPAGGLADL SSGSSGEDDD FKSCPQGPQG REGLAFLVSC PEGRADCASE
	SACSSDSLDE ARSSGSEGTP ADTGDLSPGH GASAPSVSRE ARQTVPPLTV RLHTQSVSEC
	ITEDGRTVAV GDIVWGKIHG FPWWPARVLD ISLGQKEDGE PSWREAKVSW FGSPTTSFLS
	ISKLSPFSEF FKLRFNRKKK GMYRKAITEA ANAARHVAPE IRELLTQFET
	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

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	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 fo 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®):
	 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.

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	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:	PWWP2B
Alternative Name:	PWWP2B (PWWP2B Products)
Background:	PWWP domain-containing protein 2B,FUNCTION: Chromatin-binding protein that acts as an adapter between distinct nucleosome components (H3K36me3 or H2A.Z) and chromatin-modifying complexes, contributing to the regulation of the levels of histone acetylation at actively transcribed genes (PubMed:30228260). Competes with CHD4 and MBD3 for interaction with MTA1 to form a NuRD subcomplex, preventing the formation of full NuRD complex (containing CHD4 and MBD3), leading to recruitment of HDACs to gene promoters resulting in turn in the deacetylation of nearby H3K27 and H2A.Z (PubMed:30228260). Plays a role in facilitating transcriptional elongation through regulation of histone acetylation (By similarity). Negatively regulates brown adipocyte thermogenesis by interacting with and stabilizing HDAC1
	at the UCP1 gene promoter, thereby promoting histone deacetylation at the promoter leading to the repression of UCP1 expression (By similarity). {ECO:0000250 UniProtKB:Q69Z61, ECO:0000269 PubMed:30228260}.
Molecular Weight:	64.0 kDa
UniProt:	Q6NUJ5
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

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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!
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Handling	
Format:	Liquid
	Liquid The buffer composition is at the discretion of the manufacturer. If you have a special request,
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Format:	The buffer composition is at the discretion of the manufacturer. If you have a special request,
Format: Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Format: Buffer: Handling Advice:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us. Avoid repeated freeze-thaw cycles.