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Datasheet for ABIN3136837
PRP6/ANT-1 Protein (AA 1-941) (Strep Tag)

Overview

Quantity:	1 mg
Target:	PRP6/ANT-1 (PRPF6)
Protein Characteristics:	AA 1-941
Origin:	Mouse
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRP6/ANT-1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MNKKKKPFLG MPAPLGYVPG LGRGATGFTT RSDIGPARDA NDPVDDRhap PGKRTVGDQM
KKNQAADDDD EDLNDTNYDE FNGYAGSLFS SGPYEKDDDE ADAIYAALDK RMDERRKERR
EQREKEEIEK YRMERPKIQQ QFSDLKRKLA EVTEEEWLSI PEVGDARNKR QRNPRYEKLT
PVPDSFFAKH LQTGENHTSV DPRQTQFGGL NTPYPGGLNT PYPGGMTPGL MTPGTGELDM
RKIGQARNTL MDMRLSQVSD SVSGQTVVDP KGYLTDLNSM IPTHGGDIND IKKARLLLKS
VRETNP HPP AWIASARLEE VTGKLQVARN LIMKGTEMCP KSEDVWLEAA RLQPGDTAKA
VVAQAVRHLP QSVRIYIRAA ELETDIRAKK RVLRKALEHV PNSVRLWKAA VELEPEDAR
IMLSRAVECC PTSVELWLAL ARLETYENAR KVLNKARENI PTDRHIWITA AKLEEANGNT
QMVEKIIDRA ITSLRANGVE INREQWIQDA EECDRAGSVA TCQAVMRAVI GIGIEEEDRK
HTWMEDADSC VAHNALECAR AIYAYALQVF PSKKS VWLRA AYFEKNHGTR ESLEALLQRA
VAHCPKAEVL WLMGAKSKWL AGDVPAARSI LALAFQANPN SEEIWLA AVK LESENNEYER
ARRLLAKARS SAPTARVFMK SVKLEWVLGN ISAAQELCEE ALRH YEDFPK LWMMKGIIEE

QGELMEKARE AYNQGLKKCP HSTPLWLLLS RLEEKIGQLT RARAILEKSR LKNPKNPGLW
LESVRLEYRA GLKNIANTLM AKALQCEPNS GILWSEAVFL EARPQRKTKS VDALKKCEHD
PHVLLAVAKL FWSEKITKA REWFHRTVKI DSDLGDAWAF FYKFELQHGT EEQQEEVRKR
CENAEPRHGE LWCAVSKDIT NWQRKIGEIL VLVAARIKNT F

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:

- 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.

Product Details

- We use the Expsy'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 style="list-style-type: none">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)

Target Details

Target:	PRP6/ANT-1 (PRPF6)
Alternative Name:	Prpf6 (PRPF6 Products)
Background:	Pre-mRNA-processing factor 6 (PRP6 homolog) (U5 snRNP-associated 102 kDa protein) (U5-102 kDa protein),FUNCTION: Involved in pre-mRNA splicing as component of the U4/U6-U5 tri-snRNP complex, one of the building blocks of the spliceosome. Enhances dihydrotestosterone-induced transactivation activity of AR, as well as dexamethasone-induced transactivation activity of NR3C1, but does not affect estrogen-induced transactivation. {ECO:0000250 UniProtKB:O94906}.
Molecular Weight:	106.7 kDa
UniProt:	Q91YR7
Pathways:	Ribonucleoprotein Complex Subunit Organization , Proton Transport , Dicarboxylic Acid Transport

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 <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce

Application Details

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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)