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## Datasheet for ABIN3078247 CPSF6 Protein (AA 1-551) (Strep Tag)





## Overview

Quantity:	1 mg
Target:	CPSF6
Protein Characteristics:	AA 1-551
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CPSF6 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

	system, a different complexity of the protein could make another tag necessary. In case you
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	ERDREREYRH R
	ESKSYGSGSR RERSRERDHS RSREKSRRHK SRSRDRHDDY YRERSRERER HRDRDRDRDR
	NRAISSSAIS RAVSDASAGD YGSAIETLVT AISLIKQSKV SADDRCKVLI SSLQDCLHGI
	FFPPPTNSGM PTSDSRGPPP TDPYGRPPPY DRGDYGPPGR EMDTARTPLS EAEFEEIMNR
	PGYGPPPGPP PPQQGPPPPP GPFPPRPPGP LGPPLTLAPP PHLPGPPPGA PPPAPHVNPA
	LGPPGPPGPP GPPPPGQVLP PPLAGPPNRG DRPPPPVLFP GQPFGQPPLG PLPPGPPPPV
	SGEGKAGPPG GSSRAAFPQG GRGRGRFPGA VPGGDRFPGP AGPGGPPPPF PAGQTPPRPP
	GQSKGFALVG VGSEASSKKL MDLLPKRELH GQNPVVTPCN KQFLSQFEMQ SRKTTQSGQM
	GDDVGKGAAP NVVYTYTGKR IALYIGNLTW WTTDEDLTEA VHSLGVNDIL EIKFFENRAN
Sequence:	MADGVDHIDI YADVGEEFNQ EAEYGGHDQI DLYDDVISPS ANNGDAPEDR DYMDTLPPTV

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	have a special request, please contact us.
Characteristics:	Key Benefits:
	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.</li> <li>These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a <b>made-to-order protein</b> 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 <b>made-to-order proteins</b> 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:
	<ul> <li>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.</li> <li>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!</li> </ul>
	Concentration:
	<ul> <li>The concentration of our recombinant proteins is measured using the absorbance at 280nm</li> <li>The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.</li> <li>We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.</li> </ul>
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	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.

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	<ol> <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)
Grade:	Crystallography grade

## Target Details

Target:	CPSF6
Alternative Name:	CPSF6 (CPSF6 Products)
Background:	Cleavage and polyadenylation specificity factor subunit 6 (Cleavage and polyadenylation
	specificity factor 68 kDa subunit) (CPSF 68 kDa subunit) (Cleavage factor Im complex 68 kDa
	subunit) (CFIm68) (Pre-mRNA cleavage factor Im 68 kDa subunit) (Protein HPBRII-
	4/7),FUNCTION: Component of the cleavage factor Im (CFIm) complex that functions as an
	activator of the pre-mRNA 3'-end cleavage and polyadenylation processing required for the
	maturation of pre-mRNA into functional mRNAs (PubMed:9659921, PubMed:8626397,
	PubMed:14690600, PubMed:29276085). CFIm contributes to the recruitment of multiprotein
	complexes on specific sequences on the pre-mRNA 3'-end, so called cleavage and
	polyadenylation signals (pA signals) (PubMed:9659921, PubMed:8626397, PubMed:14690600)
	Most pre-mRNAs contain multiple pA signals, resulting in alternative cleavage and
	polyadenylation (APA) producing mRNAs with variable 3'-end formation (PubMed:23187700,
	PubMed:29276085). The CFIm complex acts as a key regulator of cleavage and
	polyadenylation site choice during APA through its binding to 5'-UGUA-3' elements localized in
	the 3'-untranslated region (UTR) for a huge number of pre-mRNAs (PubMed:20695905,
	PubMed:29276085). CPSF6 enhances NUDT21/CPSF5 binding to 5'-UGUA-3' elements
	localized upstream of pA signals and promotes RNA looping, and hence activates directly the
	mRNA 3'-processing machinery (PubMed:15169763, PubMed:29276085, PubMed:21295486).
	Plays a role in mRNA export (PubMed:19864460). {ECO:0000269 PubMed:14690600,
	ECO:0000269 PubMed:15169763, ECO:0000269 PubMed:19864460,
	ECO:0000269 PubMed:20695905, ECO:0000269 PubMed:21295486,
	ECO:0000269 PubMed:23187700, ECO:0000269 PubMed:29276085,
	ECO:0000269 PubMed:8626397, ECO:0000269 PubMed:9659921}., FUNCTION: (Microbial
	infection) Binds HIV-1 capsid-nucleocapsid (HIV-1 CA-NC) complexes and might thereby
	promote the integration of the virus in the nucleus of dividing cells (in vitro).

Target Details	
	{EC0:0000269 PubMed:24130490}.
Molecular Weight:	59.2 kDa
UniProt:	Q16630
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 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)

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

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