Datasheet for ABIN3137169

CPSF1 Protein (AA 1-1441) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	CPSF1
Protein Characteristics:	AA 1-1441
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CPSF1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MYAVYKQAHP PTGLEFTMYC NFFNNSERNL VVAGTSQLYV YRLNRDAEAL TKNDGSTEGK AHREKLELVA SFSFFGNVMS MASVQLAGAK RDALLLSFKD AKLSVVEYDP GTHDLKTLSL HYFEEPELRD GFVQNVHTPR VRVDPDGRCA AMLIYGTRLV VLPFRRESLA EEHEGLMGEG QRSSFLPSYI IDVRALDEKL LNIIDLQFLH GYYEPTLLIL FEPNQTWPGR VAVRQDTCSI VAISLNITQK VHPVIWSLTS LPFDCTQALA VPKPIGGVVI FAVNSLLYLN QSVPPYGVAL NSLTTGTTAF PLRTQEGVRI TLDCAQAAFI SYDKMVISLK GGEIYVLTLI TDGMRSVRAF HFDKAAASVL TTSMVTMEPG YLFLGSRLGN SLLLKYTEKL QEPPASSVRE AADKEEPPSK KKRVEPAVGW TGGKTVPQDE VDEIEVYGSE AQSGTQLATY SFEVCDSMLN IGPCANAAVG EPAFLSEEFQ NSPEPDLEIV VCSGYGKNGA LSVLQKSIRP QVVTTFELPG CYDMWTVIAP VRKEEEETPK AESTEQEPSA PKAEEDGRRH GFLILSREDS TMILQTGQEI MELDTSGFAT QGPTVFAGNI GDNRYIVQVS PLGIRLLEGV NQLHFIPVDL GAPIVQCAVA DPYVVIMSAE

GHVTMFLLKS DSYGGRHHRL ALHKPPLHHQ SKVIALCLYR DVSGMFTTES RLGGARDELG GRSGSEAEGL GSETSPTVDD EEEMLYGDSS ALFSPSKEEA RRSSQPPADR DPAPFKADPT HWCLLVRENG TMEIYQLPDW RLVFLVKNFP VGQRVLVDSS FGQPTTQGEV RKEEATRQGE LPLVKEVLLV ALGSRQSRPY LLVHVDQELL IYEAFPHDSQ LGQGNLKVRF KKVPHNINFR EKKPKPSKKK AEGCSTEEGS GGRGRVARFR YFEDIYGYSG VFICGPSPHW LLVTGRGALR LHPMGIDGPI DSFAPFHNVN CPRGFLYFNR QGELRISVLP AYLSYDAPWP VRKIPLRCTA HYVAYHVESK VYAVATSTNT PCTRIPRMTG EEKEFEAIER DDRYIHPQQE AFSIQLISPV SWEAIPNARI ELEEWEHVTC MKTVSLRSEE TVSGLKGYVA AGTCLMQGEE VTCRGRILIM DVIEVVPEPG QPLTKNKFKV LYEKEQKGPV TALCHCNGHL VSAIGQKIFL WSLRASELTG MAFIDTQLYI HQMISVKNFI LAADVMKSIS LLRYQEESKT LSLVSRDAKP LEVYSVDFMV DNAQLGFLVS DRDRNLMVYM YLPEAKESFG GMRLLRRADF HVGAHVNTFW RTPCRGAAEG PSKKSVVWEN KHITWFATLD GGIGLLLPMQ EKTYRRLLML QNALTTMLPH HAGLNPRAFR MLHVDRRILQ NAVRNVLDGE LLNRYLYLST MERSELAKKI GTTPDIILDD LLETDRVTAH 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 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

Product Details

	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.
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

Target:	CPSF1
Alternative Name:	Cpsf1 (CPSF1 Products)
Background:	Cleavage and polyadenylation specificity factor subunit 1 (Cleavage and polyadenylation specificity factor 160 kDa subunit) (CPSF 160 kDa subunit),FUNCTION: Component of the cleavage and polyadenylation specificity factor (CPSF) complex that plays a key role in pre-mRNA 3'-end formation, recognizing the AAUAAA signal sequence and interacting with poly(A) polymerase and other factors to bring about cleavage and poly(A) addition. This subunit is involved in the RNA recognition step of the polyadenylation reaction (By similarity). May play a role in eye morphogenesis and the development of retinal ganglion cell projections to the midbrain (By similarity). {ECO:0000250|UniProtKB:A0A0R4IC37, ECO:0000250|UniProtKB:Q10570}.
Molecular Weight:	160.8 kDa
UniProt:	Q9EPU4

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

Application Details

	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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months