Datasheet for ABIN3091093

Cyclin F Protein (CCNF) (AA 1-786) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	Cyclin F (CCNF)
Protein Characteristics:	AA 1-786
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cyclin F protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MGSGGVVHCR CAKCFCYPTK RRIRRRPRNL TILSLPEDVL FHILKWLSVE DILAVRAVHS QLKDLVDNHA SVWACASFQE LWPSPGNLKL FERAAEKGNF EAAVKLGIAY LYNEGLSVSD EARAEVNGLK ASRFFSLAER LNVGAAPFIW LFIRPPWSVS GSCCKAVVHE SLRAECQLQR THKASILHCL GRVLSLFEDE EKQQQAHDLF EEAAHQGCLT SSYLLWESDR RTDVSDPGRC LHSFRKLRDY AAKGCWEAQL SLAKACANAN QLGLEVRASS EIVCQLFQAS QAVSKQQVFS VQKGLNDTMR YILIDWLVEV ATMKDFTSLC LHLTVECVDR YLRRRLVPRY RLQLLGIACM VICTRFISKE ILTIREAVWL TDNTYKYEDL VRMMGEIVSA LEGKIRVPTV VDYKEVLLTL VPVELRTQHL CSFLCELSLL HTSLSAYAPA RLAAAALLLA RLTHGQTQPW TTQLWDLTGF SYEDLIPCVL SLHKKCFHDD APKDYRQVSL TAVKQRFEDK RYGEISQEEV LSYSQLCAAL GVTQDSPDPP TFLSTGEIHA FLSSPSGRRT KRKRENSLQE DRGSFVTTPT AELSSQEETL LGSFLDWSLD CCSGYEGDQE SEGEKEGDVT APSGILDVTV VYLNPEQHCC QESSDEEACP

	EDKGPQDPQA LALDTQIPAT PGPKPLVRTS REPGKDVTTS GYSSVSTASP TSSVDGGLGA LPQPTSVLSL DSDSHTQPCH HQARKSCLQC RPPSPPESSV PQQQVKRINL CIHSEEEDMN LGLVRL **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 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

Product Details

	System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	Cyclin F (CCNF)
Alternative Name:	CCNF (CCNF Products)
Background:	Cyclin-F (F-box only protein 1),FUNCTION: Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:20596027, PubMed:22632967, PubMed:27653696, PubMed:26818844, PubMed:27080313, PubMed:28852778). The SCF(CCNF) E3 ubiquitin-protein ligase complex is an integral component of the ubiquitin proteasome system (UPS) and links proteasome degradation to the cell cycle (PubMed:8706131, PubMed:20596027, PubMed:27653696, PubMed:26818844). Mediates the substrate recognition and the proteasomal degradation of various target proteins involved in the regulation of cell cycle progression and in the maintenance of genome stability (PubMed:20596027, PubMed:22632967, PubMed:27653696, PubMed:26818844). Mediates the ubiquitination and proteasomal degradation of CP110 during G2 phase, thereby acting as an inhibitor of centrosome reduplication (PubMed:20596027). In G2, mediates the ubiquitination and subsequent degradation of ribonucleotide reductase RRM2, thereby maintaining a balanced pool of dNTPs and genome integrity (PubMed:22632967). In G2, mediates the ubiquitination and proteasomal degradation of CDC6, thereby suppressing DNA re-replication and preventing genome instability (PubMed:26818844). Involved in the ubiquitination and degradation of the substrate adapter CDH1 of the anaphase-promoting complex (APC/C), thereby acting as an antagonist of APC/C in regulating G1 progression and S phase entry (PubMed:27653696). May play a role in the G2 cell cycle checkpoint control after DNA damage, possibly by promoting the ubiquitination of MYBL2/BMYB (PubMed:25557911). {ECO:0000269|PubMed:20596027, ECO:0000269|PubMed:22632967, ECO:0000269|PubMed:25557911, ECO:0000269|PubMed:26818844, ECO:0000269|PubMed:27080313, ECO:0000269|PubMed:27653696, ECO:0000269|PubMed:28852778, ECO:0000269|PubMed:8706131}.
Molecular Weight:	87.6 kDa
UniProt:	P41002

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. 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