Datasheet for ABIN7553152

Cyclin F Protein (CCNF) (AA 1-786) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	Cyclin F (CCNF)
Protein Characteristics:	AA 1-786
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cyclin F protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant CCNF Protein expressed in mammalian cells.
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

Product Details

	LPQPTSVLSL DSDSHTQPCH HQARKSCLQC RPPSPPESSV PQQQVKRINL CIHSEEEDMN LGLVRL **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, 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).

Target Details

	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:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

