

Datasheet for ABIN7553502

Claspin Protein (CLSPN) (AA 1-1339) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	Claspin (CLSPN)
Protein Characteristics:	AA 1-1339
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Claspin protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant CLSPN Protein expressed in mammalian cells.
Sequence:	MTGEVGSEVH LEINDPNVIS QEEADSPSDS GQGSYETIGP LSEGDSDEEI FVSKKLNKRK VLQDSDSETE DTNASPEKTT YDSAEENKE NLYAGKNTKI KRIYKTVADS DESYMEKSLY QENLEAQVKP CLELSLQSGN STDFTTDRKS SKKHIHDKEG TAGKAKVKSK RRLEKEERKM EKIRQLKKKE TKNQEDDVEQ PFNDSGCLLV DKDLFETGLE DENNSPLEDE ESLESIRAAV KNKVKKHKKK EPSLESGVHS FEEGSELSKG TTRKERKAAR LSKEALKQLH SETQRLIRES ALNLPYHMPE NKTIHDFFKR KPRPTCHGNA MALLKSSKYQ SSHHKEIIDT ANTTEMNSDH HSGKSEQTTG AENEVETNAL PVVSKETQII TGSDSCRKD LVKNEELEIQ EKQKQSDIRP SPGDSSVLQQ ESNFLGNNHS EECQVGGLVA FEPHALEGEG PQNPEETDEK VEEPEQQNKS SAVGPPKVR RFTLDRLKQL GVDVSIKPRL GADEDSFVIL EPETNRELEA LKQRFWKHAN PAAKPRAGQT VNVNVIVKDM GTDGKEELKA DVVPVTLAPK KLDGASHTKP GEKLQVLKAK LQEAMKLRRF EERQKRQALF KLDNEDGFEE EEEEEEMTD ESEEDGEEKV EKEEKEEEE EEEEKEEEE EGNQETAEF LLSSEEIETK DEKEMDKENN DGSSEIGKAV GFLSVPKSLK

SDSTLLLFKD SSSKMGYFPT EEKSETDENS GKQPSKLDED DSCSLLTKE SHNSSFELIG
STIPSYQPCN RQTGRGTSFF PTAGGFRSPS PGLFRASLVS SASKSSGKLS EPSLPIEDSQ
DLYNASPEPK TLFLGAGDFQ FCLEDDTQSQ LLDADGFLNV RNHRNQYQAL KPRLPLASMD
ENAMDANMDE LLDLCTGKFT SQA EKHLPRK SDKKENMEEL LNLCSGKFTS QDASTPASSE
LNKQEKESM GDPMEELAL CSGSFPTDKE EEEEEEEFGD FRLVSNDFE DSEDEHSDS
GNDLALEDHE DDDEEELLKR SEKLKQMRK RYLED EAEV SGSDVGSSEDE YDGEEIDEYE
EDVIDEVLPS DEELQSQIKK IHMKTMLDDD KRQLRLYQER YLADGDLHSD GPGRMRKFRW
KNIDDASQMD LFHRDSDDDQ TEEQLDESEA RWRKERIERE QWLRDMAQQG KITAE EEEEEI
GEDSQFMILA KKVTAKALQK NASRPMVIQE SKSLLRNPFE AIRPGSAQQV KTGSLLNQPK
AVLQKLAALS DHNPSAPRNS RNFVFHTLSP VKAEAAKES KSQVKRGPFS FMTSPSPKHL
KTDDSTGLT RSIFKYLE **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:	Claspin (CLSPN)
Alternative Name:	CLSPN (CLSPN Products)
Background:	<p>Claspin (hClaspin),FUNCTION: Required for checkpoint mediated cell cycle arrest in response to inhibition of DNA replication or to DNA damage induced by both ionizing and UV irradiation (PubMed:12766152, PubMed:15190204, PubMed:15707391, PubMed:16123041). Adapter protein which binds to BRCA1 and the checkpoint kinase CHEK1 and facilitates the ATR-dependent phosphorylation of both proteins (PubMed:12766152, PubMed:15707391, PubMed:15096610, PubMed:16123041). Also required to maintain normal rates of replication fork progression during unperturbed DNA replication. Binds directly to DNA, with particular affinity for branched or forked molecules and interacts with multiple protein components of the replisome such as the MCM2-7 complex and TIMELESS (PubMed:15226314, PubMed:35585232, PubMed:34694004). Important for initiation of DNA replication, recruits kinase CDC7 to phosphorylate MCM2-7 components (PubMed:27401717).</p> <p>{ECO:0000269 PubMed:12766152, ECO:0000269 PubMed:15096610, ECO:0000269 PubMed:15190204, ECO:0000269 PubMed:15226314, ECO:0000269 PubMed:15707391, ECO:0000269 PubMed:16123041, ECO:0000269 PubMed:27401717, ECO:0000269 PubMed:34694004, ECO:0000269 PubMed:35585232}.</p>
Molecular Weight:	151.1 kDa
UniProt:	Q9HAW4

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.

Handling

Expiry Date: 12 months