

Datasheet for ABIN7564303

Claspin Protein (CLSPN) (AA 1-1315) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	Claspin (CLSPN)
Protein Characteristics:	AA 1-1315
Origin:	Mouse
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:	MTGEVGSEVN LEVNDLKLLS QEAADSPVDS GQGSFETLEP LSERDSDEEI FVSKKPKSRK VLQSDSEAE DRDDAPEKPT YDDSAEDTQE NLHSGKSQSR SFPKALADSD ESDMEETPSQ ESPETQEAPS LEPGHQTGHS VDFTTGRKLS KTLREGAEG KAKSKRRLEK EERTMEKIRR LKKKETRCEE SDADRPLNDS GCLLESDLF ETGLEEENDS ALEDEESLES IRAAVKNKVK NRKKKEPTLE SEAFSLEDGN ELSKGSARKE RKAARLSKEA LKKLHSETQR LVRESALNLP YHMPESKTIH DFFKRKPRPT CQGSAMALLK SCKYQSGHYK ETVNPADAAG MGAEDSSRGS EQRTGAGIAA ETNVLSEVSE EAGITAGSDE ACGKDPVRRG ELEIEETEKH SDDRPYSPGD RSMSQQESSI PRIEDNEGHQ AGDLTESDPP ALEGEELKTV EKTAKEGMP EQKTQSAAAA AVAVVTA AAA PPEKVRRTV DRLRQLGVDV SSQPRLGADE DSFVILDEPK TNRELEALKQ RFWRHANPAA SPRACQTVNV NIIVKDLGTN GKEELKAEVV PVTLAAEKLE GASHAKPGEK LQMLKAKLQE AMKLRRLEER QKRQALFKLD NEDGFEEEEEE EEEMTDESEE DGEEETTEYL LGSEDTETKD EKETDKENTD TSSDIGKVA LCVPKPLSSD STLLLFKDSS SKMGYFPTEE

KSETDEYLAK QSDKLDEDDS SLLTKESSH NSSFELIGST IPSYQPCNRQ IGRGASFLPT
AGFRSPSPGL FRGSLISSAS KSSGKLESEPS LPVEDSQDLY TASPEPKTLF LGAGDFQFCL
EDDTQSQLLD ADGFLNIRNH RHRYQAVKPQ LPLASMDENA MDANMDELDD LCTGQFTSQP
EEKCQPRKND KKENMEELN LCSGKFPTQD ASPVAPLGLR SQEKESSTED PMEEALALCS
GSFPTDREEE GEEEFQDFQ LVSKENGFAS DEDEHSDSND EELALDEDD EEELLKQSEK
MKRQMRLKKY LEDEAEVSGS DVGSEDEYDG EEIDEYEEDV IDEVLPSDEE LESQIKKIHM
KTMLDDDKRR LRLYQERYLA DGDHLSDGPG RTRKFRWKHI DDTSQMDLFH RSDDDDQVEE
QLDETEAKWR KERIEREQWL REQAQQGKIA ADEEDIGDDS QFMMLAKKVT AKALQKNASH
TVVVQESKSV LRNPFETIRP GGAHQLKTGS LLNQPKAQLQ KLAALSDLNP SAPRNSRNFV
FHTLSPTKAE AAKDSSKPQV RRRGLSSMMS PSPKRLKTNG SSPGPKRSIF RYLES **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,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:27401717). Adapter protein which binds to BRCA1 and the checkpoint kinase CHEK1 and facilitates the ATR-dependent phosphorylation of both proteins (By similarity). Also required to maintain normal rates of replication fork progression during unperturbed DNA replication (PubMed:27401717). 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. Important for initiation of DNA replication, recruits kinase CDC7 to phosphorylate MCM2-7 components (By similarity).</p> <p>{ECO:0000250 UniProtKB:Q9HAW4, ECO:0000269 PubMed:27401717}.</p>
Molecular Weight:	146.7 kDa
UniProt:	Q80YR7

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