

Datasheet for ABIN3136084

Claspin Protein (CLSPN) (AA 1-1315) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	Claspin (CLSPN)
Protein Characteristics:	AA 1-1315
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Claspin protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MTGEVGSEVN LEVNDLKLLS QEAADSPVDS GQGSFETLEP LSERDSDEEI FVSKKPKSRK</p> <p>VLQSDSEAE DRDDAPEKPT YDDSAEDTQE NLHSGKSQSR SFPKALADSD ESDMEETPSQ</p> <p>ESPETQEAPS LEPGHQTGHS VDFTTGRKLS KTLREGAEG KAKSKRRLEK EERTMEKIRR</p> <p>LKKKETRC EE SDADRPLNDS GCLLEDSDLF ETGLEEENDS ALEDEESLES IRAAVKNKVK</p> <p>NRKKKEPTLE SEAFSLEDGN ELSKGSARKE RKAARLSKEA LKKLHSETQR LVRESALNLP</p> <p>YHMPESKTIH DFFKRKPRPT CQGSAMALLK SCKYQSGHYK ETVNPADAAG MGAEDSSRGS</p> <p>EQRTGAGIAA ETNVLSEVSE EAGITAGSDE ACGKDPVRRG ELEIEETEKH SDDRPYSPGD</p> <p>RSMSQQESSI PRIEDNEGHQ AGDLTESDPP ALEGEELKTV EKTDKEGMP EQKTQSAAAA</p> <p>AVAVVTAAAA PPEKVRRFTV DRLRQLGVDV SSQPRLGADE DSFVILDEPK TNRELEALKQ</p> <p>RFWRHANPAA SPRACQTVNV NIIVKDLGTN GKEELKAEVV PVTLAAEKLE GASHAKPGEK</p> <p>LQMLKAKLQE AMKLRRLEER QKRQALFKLD NEDGFEEEEEE EEEMTDESEE DGEEETTEYL</p>

LGSEDTETKD EKETDKENTD TSSDIGKSV LCVPKPLSSD STLLFKDSS SKMGYFPTTE
KSETDEYLAK QSDKLDEDDSS SLLTKESSH NSSFELIGST IPSYQPCNRQ IGRGASFLPT
AGFRSPSPGL FRGSLISSAS KSSGKLSEPS LPVEDSQDLY TASPEPKTLF LGAGDFQFCL
EDDTQSQLLD ADGFLNIRNH RHRYQAVKPQ LPLASMDENA MDANMDELDD LCTGQFTSQP
EEKCQPRKND KKENMEELN LCSGKFPTQD ASPVAPLGLR SQEKESSTED PMEEALALCS
GSFPTDREEE GEEEFQDFQ LVSKENGFAS DEDEHSDSND EELALDLEDD EEELLKQSEK
MKRQMRLLKY LEDEAEVSGS DVGSEDEYDG EEIDEYEEDV IDEVLPSDEE LESQIKKIHM
KTMDDDDKRR LRLYQERYLA DGDHSDGPG RTRKFRWKHI DDTSQMDLFH RSDDDQVEE
QLDETEAKWR KERIEREQWL REQAQGGKIA ADEEDIGDDS QFMMLAKKVT AKALQKNASH
TVVVQESKSV LRNPFETIRP GGAHQLKTGS LLNQPKAVLQ KLAALSDLNP SAPRNSRNFV
FHTLSPTKAE AAKDSSKPQV RRRGLSSMMS PSPKRLKTNG SSPGPKRSIF RYLES

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 -

Product Details

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

Target:	Claspin (CLSPN)
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Alternative Name:	Clspn (CLSPN Products)
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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). {ECO:0000250 UniProtKB:Q9HAW4, ECO:0000269 PubMed:27401717}.</p>
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Molecular Weight:	146.7 kDa
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UniProt:	Q80YR7
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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.
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Application Details

Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.</p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months