

Datasheet for ABIN3095901

TIMELESS Protein (AA 1-1208) (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	TIMELESS
Protein Characteristics:	AA 1-1208
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TIMELESS protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MDLHMMNCEL LATCSALGYL EGDYHKEPD CLESVKDLIR YLRHEDETRD VRQQLGAAQI LQSDLLPILT QHHQDKPLFD AVIRLMVNLT QPALLCFGNL PKEPSFRHHF LQVLTYLQAY KEAFASEKAF GVLSETLYEL LQLGWEERQE EDNLLIERIL LLVRNILHVP ADLDQEKKID DDASAHDQLL WAIHLSGLDD LLLFLASSSA EEQWSLHVLE IVSLMFRDQN PEQLAGVGQG RLAQERSADF AELEVLQRQE MAEKKTRALQ RGNRHSRFGG SYIVQGLKSI GERDLIFHKG LHNLARNYSSD LGKQPKKVPK RRQAARELSI QRRSALNVRL FLRDFCSEFL ENCYNRLMGS VKDHLLREKA QQHDETYMW ALAFFMAFNR AASFRPGLVS ETLVSRTFHF IEQNLNYYE MMLTDRKEAA SWARRMHLAL KAYQELLATV NEMDISPDEA VRESSRIKN NIFYVMEYRE LFLALFRKFD ERCQPRSFLR DLVETTHLFL KMLERFCRSR GNLVVQNKQK KRRKKKKKVL DQAIVSGNVP SSPEEVEAVW PALAEQLQCC AQNSELSMDS VVPFDAASEV PVEEQRAEAM VRIQDCLLAG QAPQALTLLR SAREVWPEGD VFGSQDISPE EEIQLLKQIL SAPLPRQQGP EERGAE EEEEEELQ VVQVSEKEFN FLDYLKRFAC STVVRAYVLL LRSYQQNSAH
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TNHCIVKMLH RLAHDLKMEA LLFQLSVFCL FNRLLSDPAA GAYKELVTFA KYILGKFFAL
AAVNQKAFVE LLFWKNTAVV REMTEGYGSL DDRSSSRRAP TWSPEEEAHL RELYLANKDV
EGQDVVEAIL AHLNTPRTR KQIIHHLVQM GLADSVKDFQ RKGTHIVLWT GDQELELQRL
FEEFRDSDDV LGHIMKNITA KRSRARIVDK LLALGLVAER RELYKKRQKK LASSILPNGA
ESLKDFCQED LEEENLPEE DSEEEEEEGGS EAEQVQGSLV LSNENLGQSL HQEGFSIPLL
WLQNCLIRAA DDREEDGCSQ AVPLVPLTEE NEEAMENEQF QQLLRKLGVR PPASGQETFW
RIPAKLSPTQ LRRAAASLSQ PEEEQKLQPE LQPKVPGEQG SDEEHCKEHR AQALRALLLA
HKKKAGLASP EEEDAVGKEP LKAAPKKRQL LDSDEEQEED EGRNRAPELG APGIQKKKRY
QIEDDEDD

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human TIMELESS Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate

Product Details

- fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	TIMELESS
Alternative Name:	TIMELESS (TIMELESS Products)
Background:	<p>Plays an important role in the control of DNA replication, maintenance of replication fork stability, maintenance of genome stability throughout normal DNA replication and in the regulation of the circadian clock. Involved in the determination of period length and in the DNA damage-dependent phase advancing of the circadian clock. Negatively regulates CLOCK NPAS2-ARTNL/BMAL1 ARTNL2/BMAL2-induced transactivation of PER1 possibly via translocation of PER1 into the nucleus. Forms a complex with TIPIN and this complex regulates DNA replication processes under both normal and stress conditions, stabilizes replication forks and influences both CHEK1 phosphorylation and the intra-S phase checkpoint in response to genotoxic stress. Timeless promotes TIPIN nuclear localization. Involved in cell survival after DNA damage or replication stress. May be specifically required for the ATR-CHEK1 pathway in the replication checkpoint induced by hydroxyurea or ultraviolet light. May also play an important role in epithelial cell morphogenesis and formation of branching tubules.</p> <p>{ECO:0000269 PubMed:17141802, ECO:0000269 PubMed:17296725, ECO:0000269 PubMed:23418588, ECO:0000269 PubMed:9856465}.</p>
Molecular Weight:	139.6 kDa Including tag.
UniProt:	Q9UNS1
Pathways:	Protein targeting to Nucleus , Photoperiodism

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
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Application Details

	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process