

Datasheet for ABIN3137464 TIMELESS Protein (AA 1-1197) (Strep Tag)



Overview

Quantity:	250 µg
Target:	TIMELESS
Protein Characteristics:	AA 1-1197
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TIMELESS protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MDLYMMNCEL LATCSALGYL EGGTYHKEPD CLESVKDLIR YLRHEDETRD VRQQLGAAQI
	LQSDLLPILT QHRQDKPLFD AVIRLMVNLT QPALLCFGSV PKDSSVRHHF LQVLTYLQAY
	KEAFASEKAF GVLSETLYEL LQLGWEDRQE EDNLLIERIL LLVRNILHVP ANLEQEKSID
	DDASIHDRLL WAIHLSGMDD LLLFLSSSSA EQQWSLHVLE IISLMFRDQT PEQLAGVGQG
	RLAQERSTDV AELEVLRQRE MAEKRARALQ RGNRHSRFGG SYIVQGLKSI GEKDVVFHKG
	LHNLQNYSSD LGKQPRRVPK RRQAAQELSV HRRSVLNVRL FLRDFCSEFL ENCYNPLMGA
	VKDHLLRERA QQHDETYYMW AMAFFMAFNR AATFRPGLVS ETLSIRTFHF VEQNLTNYYE
	MMLTDRKEAA SWARRMHLAL KAYQELLATV NEMDMCPDEA VRESSRIIKN NIFYMMEYRE
	LFLALFRKFD ERYHPRSFLR DLVETTHLFL KMLERFCRSR GNLMVQNKRK KRKKKKVQD
	QGVAFSQSPG ELEAMWPALA EQLLQCAQDP ELSVDPVVPF DAASEVPVEE QRVEAMVRIQ
	DCLTAGQAPQ ALALLRSARE VWPEGNAFGS PVISPGEEMQ LLKQILSTPL PRQQEPEEGD

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Characteristics:	Key Benefits:
	have a special request, please contact us.
	system, a different complexity of the protein could make another tag necessary. In case you
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	GPTEEEATGE EEWNSAPKKR QLLDSDEEED DEGRRQAVSG TPRVHRKKRF QIEDEDD
	AKLSSTQLRR VAASLSQQEN EEEREEEPEP GVPGEQGPSE EHRTEALRAL LSARKRKAGL
	SSLIRAANDR EEDGCSQAIP LVPLTEENEE AMENEQFQHL LRKLGIRPPS SGQETFWRIP
	PWQEDPEEED EHLPEDESED EESEEGLPSG QGQGSSSLSA ENLGESLRQE GLSAPLLWLQ
	DSDDVLGQIM KNITAKRSRA RVVDKLLALG LVSERRQLYK KRRKKLAPSC MQNGEKSPRD
	ETILAHLKVV PRTRKQVIHH LVRMGLADSV KEFQKRKGTQ IVLWTEDQEL ELQRLFEEFR
	AFVELLFWKN TAVVREMTQG YGSLDSGSSS HRAPLWSPEE EAQLQELYLA HKDVEGQDVV
	KMLHRLAHGL GMEALLFQLS LFCLFNRLLS DPAAAAYKEL VTFAKYIIGK FFALAAVNQK
	AEEEEEEEE EELQVVQVSE KEFNFLEYLK RFASSTIVRA YVLLLRSYRQ NSAHTNHCIA

- 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 posttranslational 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 all that's needed is the DNA that codes for the desired protein!

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

Target Details

Target:	TIMELESS
Alternative Name:	Timeless (TIMELESS Products)
Background:	Protein timeless homolog (mTim),FUNCTION: Plays an important role in the control of DNA
	replication, maintenance of replication fork stability, maintenance of genome stability
	throughout normal DNA replication, DNA repair and in the regulation of the circadian clock
	(PubMed:9856465, PubMed:23418588, PubMed:10428031, PubMed:12875843,
	PubMed:31138685). Required to stabilize replication forks during DNA replication by forming a
	complex with TIPIN: 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 (PubMed:12875843). During DNA
	replication, inhibits the CMG complex ATPase activity and activates DNA polymerases catalytic
	activities, coupling DNA unwinding and DNA synthesis (By similarity). TIMELESS promotes
	TIPIN nuclear localization (PubMed:12875843, PubMed:31138685). Plays a role in maintaining
	processive DNA replication past genomic guanine-rich DNA sequences that form G-quadruplex
	(G4) structures, possibly together with DDX1 (By similarity). Involved in cell survival after DNA
	damage or replication stress by promoting DNA repair (PubMed:12875843). In response to
	double-strand breaks (DSBs), accumulates at DNA damage sites and promotes homologous
	recombination repair via its interaction with PARP1 (By similarity). May be specifically required
	for the ATR-CHEK1 pathway in the replication checkpoint induced by hydroxyurea or ultraviolet
	light (PubMed:23418588). Involved in the determination of period length and in the DNA
	damage-dependent phase advancing of the circadian clock (PubMed:23418588,
	PubMed:10428031, PubMed:31138685). Negatively regulates CLOCK NPAS2-
	ARTNL/BMAL1 ARTNL2/BMAL2-induced transactivation of PER1 possibly via translocation of
	ARTINL/BMALTIARTINL2/BMAL2-induced transactivation of PERT possibly via translocation of

Target Details

	PER1 into the nucleus (PubMed:9856465). May also play an important role in epithelial cell
	morphogenesis and formation of branching tubules (PubMed:10963667).
	{EC0:0000250 UniProtKB:Q9UNS1, EC0:0000269 PubMed:10428031,
	ECO:0000269 PubMed:10963667, ECO:0000269 PubMed:12875843,
	ECO:0000269 PubMed:23418588, ECO:0000269 PubMed:31138685,
	ECO:0000269 PubMed:9856465}.
Molecular Weight:	137.5 kDa
UniProt:	Q9R1X4
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 as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	 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 - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C

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Handling	
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

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