

Datasheet for ABIN3095892

## TELO2 Protein (AA 1-837) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	TELO2
Protein Characteristics:	AA 1-837
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TELO2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MEPAPSEVRL AVREAIHALS SSEDGGHIFC TLESLKRYLG EMEPPALPRE KEEFASAHFS</p> <p>PVLRCLASRL SPAWLELLPH GRLEELWASF FLEGPADQAF LVLMETIEGA AGPSFRLMKM</p> <p>ARLLARFLRE GRLAVLMEAQ CRQQTQPGFI LLRETLGKV VALPDHLGNR LQQENLAEFF</p> <p>PQNYFRLLGE EVVRVLQAVV DSLQGGLDSS VSFVSQVLGK ACVHGRQQEI LGVLVPRLAA</p> <p>LTQGSYLHQR VCWRLVEQVP DRAMEAVLTG LVEAALGPEV LSRLGNLNVV KNKKAQFVMT</p> <p>QKLLFLQSRL TTPMLQSLLG HLAMDSQRRP LLLQVLKELL ETWGSSSAIR HTPLPQQRHV</p> <p>SKAVLICLAQ LGEPELRDSR DELLASMMAG VKCRLDSSLP PVRRLGMIVA EVVSARIHPE</p> <p>GPPLKFQYEE DELSLELLAL ASPQPAGDGA SEAGTSLVPA TAEPPAETPA EIVDGGVPQA</p> <p>QLAGSDSDLD SDDEFVPPYDM SGDRELKSSK APAYVRDCVE ALTTSEDIER WEAALRALEG</p> <p>LVYRSPTATR EVSVELAKVL LHLEEKTCVV GFAGLRQRAL VAVTVTDPAP VADYLTSQFY</p> <p>ALNYSRLQRM DILDVLTAA QELSRPGCLG RTPQPGSPSP NTPCLPEAAV SQPGSAVASD</p>

WRVVVEERIR SKTQRLSKGG PRQGPAGSPS RFNSVAGHFF FPLLQRFDRP LVTFDLLGED  
QLVLGRLAHT LGALMCLAVN TTVAVAMGKA LLEFWALRF HIDAYVRQGL LSAVSSVLLS  
LPAARLLEDL MDELLEARSW LADVAEKDPD EDCRTLALRA LLLLQRLKNR LLPPASP

**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.**

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### 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 - 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.

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### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression

## Product Details

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

## Target Details

Target:	TELO2
Alternative Name:	TELO2 ( <a href="#">TELO2 Products</a> )
Background:	<p>Telomere length regulation protein TEL2 homolog (Protein clk-2 homolog) (hCLK2),FUNCTION: Regulator of the DNA damage response (DDR). Part of the TTT complex that is required to stabilize protein levels of the phosphatidylinositol 3-kinase-related protein kinase (PIKK) family proteins. The TTT complex is involved in the cellular resistance to DNA damage stresses, like ionizing radiation (IR), ultraviolet (UV) and mitomycin C (MMC). Together with the TTT complex and HSP90 may participate in the proper folding of newly synthesized PIKKs. Promotes assembly, stabilizes and maintains the activity of mTORC1 and mTORC2 complexes, which regulate cell growth and survival in response to nutrient and hormonal signals. May be involved in telomere length regulation. {ECO:0000269 PubMed:12670948, ECO:0000269 PubMed:20810650}.</p>
Molecular Weight:	91.7 kDa
UniProt:	<a href="#">Q9Y4R8</a>

## 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:	<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</p>

## Application Details

	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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months