

Datasheet for ABIN3073762

## TBC1D23 Protein (AA 1-699) (Strep Tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	TBC1D23
Protein Characteristics:	AA 1-699
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This TBC1D23 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### Product Details

Sequence:	MAEGEDVPPL PTSSGDGWEK DLEEAL EAGG CDLETLRNII QGRPLPADLR AKVWKIALNV AGKGD SLASW DGILDLPEQN TIHKDCLQFI DQLSVPEEKA AELLLDIESV ITFYCKSRNI KYSTSLSWIH LLKPLVHLQL PRSDLYNCFY AIMNKYIPRD CSQKGRPFHL FRLLIQYHEP ELCSYLDTKK ITPDSYALNW LGSLFACYCS TEVTQAIWDG YLQQADPFFI YFLMLLILVN AKEVILTQES DSKEEVIKFL ENTPSSLNIE DIEDLFSLAQ YYCSKTPASF RKDNHHLFGS TLLGIKDDDA DLSQALCLAI SVSEILQANQ LQEGEVRFV VDCRPAEQYN AGHLSTAFHL DSDLMLQNPS EFAQSVKSL EAQKQSIESG SIAGGEHLCF MSGGREEEDM YMNMLAHFL QKNKEYVSIA SGGFMALQQH LADINVDGPE NYGHWIAST SGRSSINSV DGESPNGSSD RGMKSLVNKM TVALKTKSVN VREKVISFIE NTSTPVDRMS FNLPWPDRSC TERHVSSSDR VGKPYRGVVP VFSIGDEEY DTDEIDSSM SDDRKEVVN IQTWINKPDV KHHFPCKEVK ESGHMFPSHL LVTATHMYCL REIVSRKGLA YIQRQALNS VVKITSKKKH PELITFKYGN SSASGIEILA IERYLIPNAG DATKAIKQQI MKVLDALES
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**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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

#### 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

### Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

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## Product Details

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1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate 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: >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Grade: Crystallography grade

## Target Details

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Target: TBC1D23

Alternative Name: TBC1D23 ([TBC1D23 Products](#))

Background: TBC1 domain family member 23 (HCV non-structural protein 4A-transactivated protein 1),FUNCTION: Putative Rab GTPase-activating protein which plays a role in vesicular trafficking (PubMed:28823707). Involved in endosome-to-Golgi trafficking. Acts as a bridging protein by binding simultaneously to golgins, including GOLGA1 and GOLGA4, located at the trans-Golgi, and to the WASH complex, located on endosome-derived vesicles (PubMed:29084197, PubMed:29426865). Together with WDR11 complex facilitates the golgin-mediated capture of vesicles generated using AP-1 (PubMed:29426865). Plays a role in brain development, including in cortical neuron positioning (By similarity). May also be important for neurite outgrowth, possibly through its involvement in membrane trafficking and cargo delivery, 2 processes that are essential for axonal and dendritic growth (By similarity). May act as a general inhibitor of innate immunity signaling, strongly inhibiting multiple TLR and dectin/CLEC7A-signaling pathways. Does not alter initial activation events, but instead affects maintenance of inflammatory gene expression several hours after bacterial lipopolysaccharide (LPS) challenge (By similarity). {ECO:0000250|UniProtKB:Q8K0F1, ECO:0000269|PubMed:28823707, ECO:0000269|PubMed:29084197, ECO:0000269|PubMed:29426865}.

Molecular Weight: 78.3 kDa

UniProt: [Q9NUY8](#)

## Application Details

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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

## Application Details

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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

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



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