

Datasheet for ABIN3095848

TBC1D31 Protein (AA 1-1066) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	TBC1D31
Protein Characteristics:	AA 1-1066
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TBC1D31 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MQSTD LGNKE SGKIWHRKPS PATRDGIIVN IIHNTSDYHP KVLRF LNVA F DGTGDCLIAG</p> <p>DHQGN IYVFD LHGNRFNLVQ RTA QACTALA FNLRRKSEFL VALADYSIKC FDTVTKELVS</p> <p>WMRGHESSVF SISVHASGKY AITTSSDTAQ LWDLDTFQRK RKLNIQSVG IQKVFFLPLS</p> <p>NTILSCFKDN SIFAWECDTL FCKYQLPAPP ESSSILYKVF AVTRDGRILA AGGKSNHLHL</p> <p>WCLEARQLFR IIQMPTKVRA IRHLEFLPDS FDAGSNQVLG VLSQDGIMRF INMQTCKLLF</p> <p>EIGSLDEGIS SSAISPHGRY IASIMENGSL NIYSVQALTQ EINKPPPPLV KVIEDLPKNK</p> <p>LSSSDLKMKV TSGRVQQPAK SRESKMQTRI LKQDLTGDFE SKKNELPDGL NKKRLQILLK</p> <p>GYGEYPTKYR MFIWRSLLQL PENHTAFSTL IDKGTHVAFL NLQKKYPIKS RKLLRVLQRT</p> <p>LSALAHWSVI FSDTPYLPLL AFPFVKLFQN NQLICFEVIA TLIINWCQHW FEYFPNPPIN</p> <p>ILSMIENVLA FHDKELLQHF IDHDITSQLY AWPLLETVFS EVLTREEWLK LFDNIFSNHP</p> <p>SFLMTVVAY NICSRTPLLS CNLKDDFEFF FHHRNNLDIN VVIRQVYHLM ETTPTDIHPD</p>

SMLNVFVALT KGQYPVFNQY PKFIVDYQTQ ERERIRNDEL DYLRERQTVE DMQAKVDQQR
VEDEAWYQKQ ELLRKAETR REMLLQEEEEK MIQQRQLAA VKRELKVKEM HLQDAARRRF
LKLQQDQDEM ELRRLDDEIG RKVYMRDREI AATARDLEMR QLELESQKRL YEKNLTENQE
ALAKEMRADA DAYRRKVDLE EHMFKHKLIEA GETQSQKTQK VIKENLAKAE QACLNTDWQI
QSLHKQKCDD LQRNKCQEV AKLLRENRK EIEINAMVE EEAKKWKEAE GKEFRLRSK
KASALSDASR KWFLKQEINA AVEHAENPCH KEEPRFQNEQ DSSCLPRTSQ LNDSSMDPS
TQISLNRRAV EWDTTGQNLI KKVRNLRQRL TARARHRCQT PHLLAA

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 - 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.

Product Details

- 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: TBC1D31

Alternative Name: TBC1D31 ([TBC1D31 Products](#))

Background: TBC1 domain family member 31 (WD repeat-containing protein 67),FUNCTION: Molecular adapter which is involved in cilium biogenesis. Part of a functional complex including OFD1 a centriolar protein involved in cilium assembly. Could regulate the cAMP-dependent phosphorylation of OFD1, and its subsequent ubiquitination by PJA2 which ultimately leads to its proteasomal degradation. {ECO:0000269|PubMed:33934390}.

Molecular Weight: 124.2 kDa

UniProt: [Q96DN5](#)

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

Application Details

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