

Datasheet for ABIN3096160

TTC21B Protein (AA 1-1316) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	TTC21B
Protein Characteristics:	AA 1-1316
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TTC21B protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MDSQELKTLI NYYCQERYFH HVLLVASEGI KRYGSDPVFR FYHAYGTLME GKTQEALREF</p> <p>EAIKNKQDVS LCSLLALIYA HKMSPNPDRE AILESARVK EQRKGAGEKA LYHAGLFLWH</p> <p>IGRHDKAREY IDRMKISDG SKQGHVLKAW LDITRGKEPY TTKALKYFEE GLQDGNDTFA</p> <p>LLGKAQCLEM RQNYSGALET VNQIIVNFPS FLPAFVKKMK LQALQDWDQ TVETAQRLLL</p> <p>QDSQNVEALR MQALYYVCRE GDIEKASTKL ENLGNTLDAM EPQNAQLFYN ITLAFSRTCG</p> <p>RSQILQKIQ TLLERAFSLN PQQSEFATEL GYQMILQGRV KEALKWYKTA MTLDETSVSA</p> <p>LVGFIQCQLI EGQLQDADQQ LEFLNEIQQS IGKSAELIYL HAVLAMKKNK RQEEVINLLN</p> <p>DVLDTFHSQLEGLPLGIQYF EKLNPDLLE IVMEYLSFCP MQPASPGQPL CPLLRRCISV</p> <p>LETVVRTVPG LLQTVFLIAK VKYLSGDIEA AFNNLQHCLH HNPYSADAHL LLAQVYLSQE</p> <p>KVKLCSQSLE LCLSYDFKVR DYPLYHLIKA QSQKKMGEIA DAIKTLHMAM SLPGMKRIGA</p> <p>STKSKDRKTE VDTSHRLSIF LELIDVHRLN GEQHEATKVL QDAIHEFSGT SEEVVRTIAN</p>

ADLALAQGDI ERALSILQNV TAEQPYFIEA REKMADIYLK HRKDKMLYIT CFREIAERMA
NPRSFLLLGD AYMNILEPEE AIVAYEQALN QNPKDGTLAS KMGKALIKTH NYSMATYYE
AALKTGQKNY LCYDLAELLL KLKWDYKAEK VLQHALAHEP VNELSALMED GRCQVLLAKV
YSKMEKLGDA ITALQQAREL QARVLKRVQM EQPDAVPAQK HLAAEICAIE AKHSVAQRDY
EKAIFYREA LVHCETDNKI MLELARLYLA QDDPDSCLRQ CALLLQSDQD NEAATMMMD
LMFRKQDYEQ AVFHLQQLLE RKPDPNYMTLS RLIDLLRRCG KLEDVPRFFS MAEKRNSRAK
LEPGFYCKG LYLWYTGEPN DALRHFNKAR KDRDWGQNAL YNMIEICLNP DNETVGGEVF
ENLDGDLGNS TEKQESVQLA VRTAEKLLKE LKPQTVQGHV QLRIMENYCL MATKQKSNVE
QALNTFTEIA ASEKEHIPAL LGMATAYMIL KQTPRARNQL KRIAKMNWNA IDAEFEKSW
LLLADIYIQS AKYDMAEDLL KRCLRHNRSC CKAYEYMGYI MEKEQAYTDA ALNYEMAWKY
SNRTNPAVGY KLAFFNYLKAK RYVDSIDICH QVLEAHPTYP KIRKDILDKA RASLRP

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 -

Product Details

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.

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:	TTC21B
Alternative Name:	TTC21B (TTC21B Products)
Background:	Tetratricopeptide repeat protein 21B (TPR repeat protein 21B) (Intraflagellar transport 139 homolog),FUNCTION: Component of the IFT complex A (IFT-A), a complex required for retrograde ciliary transport and entry into cilia of G protein-coupled receptors (GPCRs). Essential for retrograde trafficking of IFT-1, IFT-B and GPCRs (PubMed:27932497). Negatively modulates the SHH signal transduction (By similarity). {ECO:0000250 UniProtKB:Q0HA38, ECO:0000269 PubMed:27932497}.
Molecular Weight:	150.9 kDa
UniProt:	Q7Z4L5
Pathways:	Hedgehog Signaling

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

Application Details

even the most difficult-to-express proteins, including those that require post-translational modifications.

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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