Datasheet for ABIN3134882

TTC21B Protein (AA 1-1315) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	TTC21B
Protein Characteristics:	AA 1-1315
Origin:	Mouse
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:	MDSQGLKTLI NYYCQERYYH HVLLVASEGM KKYSSDPVFR FYHAYGTLME GKAQEALREF EAIKNKQDVS LCSLMALMYV HKMSPNPDRE AILELDTKMK EQRKEAGRKA LYHAGLFLWH IGRHDKAREY IDRMSKMPHD SNEGPILKAW LDITRGKEPY AKKALRYFEE GLQDGNDIFA LLGKVLCLEI RQNYSGALET VSQIIVNFPS FLPAFEKKMK LQLALQDWDQ TVETAQRLLL QDNHNVEALR MLALYYLCRE GDVEKAATKL ENLGNALDVM EPQNAQLFYK ITLAFSRTCG RNQLILQKVQ SFLEKAFSLT PQQAEIATEL GYQMILQGKV KEAWKWYRTA MTLNESNISA VTGLIRCQLI EGQLQDADQQ LEFFSEFQQS MGKSAELMYL HAVLATKKNN RQDEVINLLN DVVNTHFSHL EDLPLGIQYF EKLNPDFLLE VVTEYLNLCP IQPAGPGQPL SPVLRRCSSV LETIIRSVPG LPQAVFLMAK VKYLSGDTEA AYNNLQHCLE HSPSYAEAHL LMAQVYLSQD KVKLCSQSLE LCLSYNFNVR EYPLYHLIKA QSQKKMGEVA EAIKTLHMAM NLPGMRRSRA SSKSKHRTEV DASHRLSIFL ELVEVHRLNG EQHEAAKVLQ DAIHEFSGTC EELRVTIANA

DLALAQGDTD RALSMLRNVT TEQPYFIEAK EKMADIYLKH RKEKMLYITC YREIAERMPS PRSFLLLGDA YMNIQEPEEA IVAYEQALNQ NPKDGTLARK IGKALVKTHN YSKAITYYEA ALKSGQQNCL CYDLAELLLR LKLYEKAEKV LQHSLAHEPV SELSALMVDG RSQVLLAKVY SKMERPSDAI AALQQARELQ ARILKRVQME QPDAVPSQKH FAAEICAEIA KHSAAQRDYE KAITFYREAL VHCETDSKIM LELAQLYLAQ EDLDASLRHC ALLLQRDQDN EPATMLMADL MFRKQDYEQA VYHLQQLLDR KPDNFMTLSR LIDLLRRCGK LEDVPRFFLM AEKHNSRTKL EPGFQYCKGL HFWYTGEPND ALRHFNKARK DSDWGQNALY NMIEICLNPD NETIGGEVFE NLNGDLGTSP EKQESVQLAV RTAEKLLKEL KPQTVQGRLQ LRIMENCCLM ATKQKSSVEQ ALNTFTEIAA SEKDHIPALL GMATAYMILK QTPKARNQLK RIAKMPWNPI EAEDLEKSWL LLADIYIQSA KYDMAEELLK RCLCHNRSCC KAYEYMGYIM EKEQAYTDAA FNYEMAWKHS NQTNPAVGYK LAFNYLKAKR YVDAIDVCHQ VLEAHPTYPK IRKDILDKAR ASLRP

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) (Tetratricopeptide repeat-containing hedgehog modulator 1),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 (By similarity). Negatively modulates the SHH signal transduction (PubMed:18327258). {ECO:0000250|UniProtKB:Q7Z4L5, ECO:0000269|PubMed:18327258}.
Molecular Weight:	150.8 kDa
UniProt:	Q0HA38
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. 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
Storage Comment:	Store at -80°C.
Expiry Date:	12 months