Datasheet for ABIN3136316

TBC1D4 Protein (AA 1-1307) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	TBC1D4
Protein Characteristics:	AA 1-1307
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TBC1D4 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MESPSCIQDE PFPHPLEPEP SAPAQPGATK PGDKRFRLWY VGGSCLDRRT TLPMLPWLMA EIRRRSQKPD AGGCGAPAAR EVILVLSAPF LRCVPAPGAG VGGGAGSGAV QPNTGVFIFE HKAQHISRFI HNSHDLTYFA YLIKAQPDDP ESQMACHVFR ATDPNQVPDV ISSIRQLSKA AMKEDSKPSK DNEDAFYNSQ KFEVLYCGRV IVTHKKAPSS LIDDCKDKFS LHEQQRLKLQ GERGGDPGDE MGVLEVESPV SPDDSLPEKA DGTVNSPRAL PSLASLPALA SQPALASSRV CFPERILEDC GFDEQQEFRS RCSSVTGVMQ KKVHENNQKT QPRRRHASAP SHVQPSDSEK NRTMLFQVGR FEINLISPDT KSVVLEKNFK DISSCSQGIK HVDHFGFICR ESPEPGLSQY ICYVFQCANE SLVDEVMLTL KQAFSTAAAL QSAKTQIKLC ETCPMHSLHK LCERIEGLYP PRAKLVIQRH LSSLTDNEQA DIFERVQKMK PISDQEENEL VILHLRQLCE AKQRTHVHIG EGPAIISNST IPENVTSGGR FKLDVLKNKA KRSLTSSLEN IFSRGANRMR GRLGSMDSFE RANSLASEKD FSPGDSPPGT PPASPLSSAW HAFPEEDSDS PQFRRRAHTF SHPPSSSRRK

LNLQDGKAHG LRSPLLRQSS SEQCSIVPSA RRMYKESNSS CSLPSLHTSF SAPSFTAPSF LKSFYQNSGR LSPQYENEIR QDTASESSDG EGRKRTSSTC SNESLNAGGT PVTPRRVSWR QRIFLRVASP VNKSPSAMQQ QKDGLDRTEL LPLSPLSPTM EEEPLIIFLS GDEDTEKVEE KKKSKELKSL WKKAIHQQIL LLRMEKENQK LEEARRDELQ SRKVKLDYEE VGTCQKEILI AWDKKLLNCR TKIRCDMEDI HTSLKEGVPK SRRGEIWQFL ALQYRLRHRL PNKHQPPDTS YKELLKQLTA QQHAILVDLG RTFPTHPYFS VQLGAGQLSL FNLLKAYSLL DKEVGYCQGI SFVAGVLLLH MSEEQAFEML KFLMYDLGFR KQYRPDMMSL QIQMYQLSRL LHDYHRELYN HLEENEISPS LYAAPWFLTL FASQFPLGFV ARVFDIIFLQ GTEVIFKVAL SLLSSQEALI MECENFENIV EFLKSTLPDM NTTEMEKIIT QVFEMDISKQ LHAYEVEYHV LQDELLESSY ACEDNESLEK LERANNQLKR QNMDLLEKLQ VAHAKIQALE SNLETLLTRE TKMKALIRTL EQDKMAYQKT VEQIRKLLPA DALANCELLL KDLTHPTNDK AKAGNKP

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:	TBC1D4
Alternative Name:	Tbc1d4 (TBC1D4 Products)
Background:	TBC1 domain family member 4 (Akt substrate of 160 kDa) (AS160),FUNCTION: May act as a GTPase-activating protein for RAB2A, RAB8A, RAB10 and RAB14. Promotes insulin-induced glucose transporter SLC2A4/GLUT4 translocation at the plasma membrane, thus increasing glucose uptake (By similarity). {ECO:0000250}.
Molecular Weight:	147.5 kDa
UniProt:	Q8BYJ6

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

Application Details

	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

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