Datasheet for ABIN3095810

TBC1D5 Protein (AA 1-795) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	TBC1D5
Protein Characteristics:	AA 1-795
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TBC1D5 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MYHSLSETRH PLQPEEQEVG IDPLSSYSNK SGGDSNKNGR RTSSTLDSEG TFNSYRKEWE ELFVNNNYLA TIRQKGINGQ LRSSRFRSIC WKLFLCVLPQ DKSQWISRIE ELRAWYSNIK EIHITNPRKV VGQQDLMINN PLSQDEGSLW NKFFQDKELR SMIEQDVKRT FPEMQFFQQE NVRKILTDVL FCYARENEQL LYKQGMHELL APIVFVLHCD HQAFLHASES AQPSEEMKTV LNPEYLEHDA YAVFSQLMET AEPWFSTFEH DGQKGKETLM TPIPFARPQD LGPTIAIVTK VNQIQDHLLK KHDIELYMHL NRLEIAPQIY GLRWVRLLFG REFPLQDLLV VWDALFADGL SLGLVDYIFV AMLLYIRDAL ISSNYQTCLG LLMHYPFIGD VHSLILKALF LRDPKRNPRP VTYQFHPNLD YYKARGADLM NKSRTNAKGA PLNINKVSNS LINFGRKLIS PAMAPGSAGG PVPGGNSSSS SSVVIPTRTS AEAPSHHLQQ QQQQQRLMKS ESMPVQLNKG LSSKNISSSP SVESLPGGRE FTGSPPSSAT KKDSFFSNIS RSRSHSKTMG RKESEEELEA QISFLQGQLN DLDAMCKYCA KVMDTHLVNI QDVILQENLE KEDQILVSLA GLKQIKDILK GSLRFNQSQL

	EAEENEQITI ADNHYCSSGQ GQGRGQGQSV QMSGAIKQAS SETPGCTDRG NSDDFILISK DDDGSSARGS FSGQAQPLRT LRSTSGKSQA PVCSPLVFSD PLMGPASASS SNPSSSPDDD SSKDSGFTIV SPLDI **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. • 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

Product Details

	System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	TBC1D5
Alternative Name:	TBC1D5 (TBC1D5 Products)
Background:	TBC1 domain family member 5,FUNCTION: May act as a GTPase-activating protein (GAP) for Rab family protein(s). May act as a GAP for RAB7A. Can displace RAB7A and retromer CSC subcomplex from the endosomal membrane to the cytosol, at least retromer displacement seems to require its catalytic activity (PubMed:19531583, PubMed:20923837). Required for retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN), the function seems to require its catalytic activity. Involved in regulation of autophagy (PubMed:22354992). May act as a molecular switch between endosomal and autophagosomal transport and is involved in reprogramming vesicle trafficking upon autophagy induction. Involved in the trafficking of ATG9A upon activation of autophagy. May regulate the recruitment of ATG9A-AP2-containing vesicles to autophagic membranes (PubMed:24603492). {ECO:0000269|PubMed:19531583, ECO:0000269|PubMed:20923837, ECO:0000269|PubMed:22354992, ECO:0000269|PubMed:24603492, ECO:0000305|PubMed:19531583, ECO:0000305|PubMed:22354992, ECO:0000305|PubMed:24603492}.
Molecular Weight:	89.0 kDa
UniProt:	Q92609

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.

Application Details

	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