Datasheet for ABIN3093931

CBFA2T3 Protein (AA 1-653) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	CBFA2T3
Protein Characteristics:	AA 1-653
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CBFA2T3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MPASRLRDRA ASSASGSTCG SMSQTHPVLE SGLLASAGCS APRGPRKGGP APVDRKAKAS AMPDSPAEVK TQPRSTPPSM PPPPPAASQG ATRPPSFTPH THREDGPATL PHGRFHGCLK WSMVCLLMNG SSHSPTAING APCTPNGFSN GPATSSTASL STQHLPPACG ARQLSKLKRF LTTLQQFGSD ISPEIGERVR TLVLGLVNST LTIEEFHSKL QEATNFPLRP FVIPFLKANL PLLQRELLHC ARLAKQTPAQ YLAQHEQLLL DASASSPIDS SELLLEVNEN GKRRTPDRTK ENGSDRDPLH PEHLSKRPCT LNPAQRYSPS NGPPQPTPPP HYRLEDIAMA HHFRDAYRHP DPRELRERHR PLVVPGSRQE EVIDHKLTER EWAEEWKHLN NLLNCIMDMV EKTRRSLTVL RRCQEADREE LNHWARRYSD AEDTKKGPAP AAARPRSSSA GPEGPQLDVP REFLPRTLTG YVPEDIWRKA EEAVNEVKRQ AMSELQKAVS DAERKAHELI TTERAKMERA LAEAKRQASE DALTVINQQE DSSESCWNCG RKASETCSGC NAARYCGSFC QHRDWEKHHH VCGQSLQGPT AVVADPVPGP PEAAHSLGPS LPVGAASPSE AGSAGPSRPG SPSPPGPLDT VPR

Product Details

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

Product Details

Grade:	custom-made

Target Details

Target:	CBFA2T3
Alternative Name:	CBFA2T3 (CBFA2T3 Products)
Background:	Protein CBFA2T3 (MTG8-related protein 2) (Myeloid translocation gene on chromosome 16 protein) (hMTG16) (Zinc finger MYND domain-containing protein 4),FUNCTION: Transcriptional corepressor which facilitates transcriptional repression via its association with DNA-binding transcription factors and recruitment of other corepressors and histone-modifying enzymes (PubMed:12559562, PubMed:15203199). Can repress the expression of MMP7 in a ZBTB33-dependent manner (PubMed:23251453). Reduces the protein levels and stability of the transcriptinal regulator HIF1A, interacts with EGLN1 and promotes the HIF1A prolyl hydroxylation-dependent ubiquitination and proteasomal degradation pathway (PubMed:25974097). Contributes to inhibition of glycolysis and stimulation of mitochondrial respiration by down-regulating the expression of glycolytic genes including PFKFB3, PFKFB4, PDK1, PFKP, LDHA and HK1 which are direct targets of HIF1A (PubMed:23840896, PubMed:25974097). Regulates the proliferation and the differentiation of erythroid progenitors by repressing the expression of TAL1 target genes (By similarity). Plays a role in granulocyte differentiation (PubMed:15231665). {ECO:0000250|UniProtKB:O54972, ECO:0000269|PubMed:12183414, ECO:0000269|PubMed:15231665, ECO:0000269|PubMed:16966434, ECO:0000269|PubMed:23251453, ECO:0000269|PubMed:23840896, ECO:0000269|PubMed:25974097, ECO:0000303|PubMed:12559562, ECO:0000303|PubMed:15203199}., FUNCTION: Isoform 2 functions as an A-kinase-anchoring protein (PubMed:11823486). {ECO:0000269|PubMed:11823486}.
Molecular Weight:	71.2 kDa
UniProt:	O75081

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

Application Details

	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!
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