Datasheet for ABIN3089714

ATAD2 Protein (AA 1-1390) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ATAD2
Protein Characteristics:	AA 1-1390
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATAD2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MVVLRSSLEL HNHSAASATG SLDLSSDFLS LEHIGRRRLR SAGAAQKKPA ATTAKAGDGS SVKEVETYHR TRALRSLRKD AQNSSDSSFE KNVEITEQLA NGRHFTRQLA RQQADKKKEE HREDKVIPVT RSLRARNIVQ STEHLHEDNG DVEVRRSCRI RSRYSGVNQS MLFDKLITNT AEAVLQKMDD MKKMRRQRMR ELEDLGVFNE TEESNLNMYT RGKQKDIQRT DEETTDNQEG SVESSEEGED QEHEDDGEDE DDEDDDDDDD DDDDDDDEDD EDEEDGEEEN QKRYYLRQRK ATVYYQAPLE KPRHQRKPNI FYSGPASPAR PRYRLSSAGP RSPYCKRMNR RRHAIHSSDS TSSSSSEDEQ HFERRRKRSR NRAINRCLPL NFRKDELKGI YKDRMKIGAS LADVDPMQLD SSVRFDSVGG LSNHIAALKE MVVFPLLYPE VFEKFKIQPP RGCLFYGPPG TGKTLVARAL ANECSQGDKR VAFFMRKGAD CLSKWVGESE RQLRLLFDQA YQMRPSIIFF DEIDGLAPVR SSRQDQIHSS IVSTLLALMD GLDSRGEIVV IGATNRLDSI DPALRRPGRF DREFLFSLPD KEARKEILKI HTRDWNPKPL DTFLEELAEN CVGYCGADIK SICAEAALCA LRRRYPQIYT

TSEKLQLDLS SINISAKDFE VAMQKMIPAS QRAVTSPGQA LSTVVKPLLQ NTVDKILEAL QRVFPHAEFR TNKTLDSDIS CPLLESDLAY SDDDVPSVYE NGLSQKSSHK AKDNFNFLHL NRNACYQPMS FRPRILIVGE PGFGQGSHLA PAVIHALEKF TVYTLDIPVL FGVSTTSPEE TCAQVIREAK RTAPSIVYVP HIHVWWEIVG PTLKATFTTL LQNIPSFAPV LLLATSDKPH SALPEEVQEL FIRDYGEIFN VQLPDKEERT KFFEDLILKQ AAKPPISKKK AVLQALEVLP VAPPPEPRSL TAEEVKRLEE QEEDTFRELR IFLRNVTHRL AIDKRFRVFT KPVDPDEVPD YVTVIKQPMD LSSVISKIDL HKYLTVKDYL RDIDLICSNA LEYNPDRDPG DRLIRHRACA LRDTAYAIIK EELDEDFEQL CEEIQESRKK RGCSSSKYAP SYYHVMPKQN STLVGDKRSD PEQNEKLKTP STPVACSTPA QLKRKIRKKS NWYLGTIKKR RKISQAKDDS QNAIDHKIES DTEETQDTSV DHNETGNTGE SSVEENEKQQ NASESKLELR NNSNTCNIEN ELEDSRKTTA CTELRDKIAC NGDASSSQII HISDENEGKE MCVLRMTRAR RSQVEQQQLI TVEKALAILS QPTPSLVVDH ERLKNLLKTV VKKSQNYNIF QLENLYAVIS QCIYRHRKDH DKTSLIQKME QEVENFSCSR

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

Product 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!

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:	ATAD2
Alternative Name:	ATAD2 (ATAD2 Products)
Background:	ATPase family AAA domain-containing protein 2 (EC 3.6.1.-) (AAA nuclear coregulator cancer-associated protein) (ANCCA),FUNCTION: May be a transcriptional coactivator of the nuclear receptor ESR1 required to induce the expression of a subset of estradiol target genes, such as CCND1, MYC and E2F1. May play a role in the recruitment or occupancy of CREBBP at some ESR1 target gene promoters. May be required for histone hyperacetylation. Involved in the estrogen-induced cell proliferation and cell cycle progression of breast cancer cells. {ECO:0000269|PubMed:17998543}.
Molecular Weight:	158.6 kDa
UniProt:	Q6PL18

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.

Application Details

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 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