

Datasheet for ABIN3095847

TARBP1 Protein (AA 1-1621) (Strep Tag)



[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	TARBP1
Protein Characteristics:	AA 1-1621
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TARBP1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MEWVLAEALL SQSRDPRALL GALCQGEASA ERVETLRFLL QRLEDEEARG SGGAGALPEA AREVAAGYLV PLLRSLRGRP AGGPDPQLQP RHRRRVLRRAA GAALRSCVRL AGRPQLAAAL AEEALRDLLA GWRAPGAEAA VEVLAAVGPC LRPREDGPLL ERVAGTAVAL ALGGGGDGDGE AGPAEDAAAL VAGRLLPVLV QCGGAALRAV WGGLAAPGAS LGSGRVEEKL LVLSALAEKL LPEPGGDRAR GAREAGPDAR RCWRFWRTVQ AGLGQADALT RKRARYLLQR AVEVSAELGA DCTCGPQEGN GPSLFWWSER KKDELLKFEW NYILIMETLE GNQIHVIKPV LPKLNLFY AVSEENG CWL FHPSWHMCIY KRMFESENKI LSKEGVIHFL ELYETKILPF SPEFSEFIIG PLMDALSESS LYSRSPGQPI GSCSPLGLKL QKFLVTYISL LPEEIKSSFL LKFIRKMTSR HWCAPILFL SKALANVPRH KALGIDGLLA LRDVIHCTMI THQILLRGAA QCYLLQTAMN LLDVEKVSL S DVSTFLMSLR QEESLGRGTS LWTELCDWLR VNESYFKPSP TCSSIGLHKT SLNAYVKSIV QEYVKSSAWE TGENCFMPDW FEAKLVSLMV LLAVDVEGMK TQYSGKQRTE NVLRIFLDPL LDVLMKFSTN AYMPLLKTDR CLQLLLKLLN TCRLKGSSAQ DDEVSTVLQN
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FFMSTTESIS EFILRRLTMN ELNSVSDLDR CHLYLMVLTE LINLHLKVGW KRGNPIWRVI
SLLKNASIQH LQEMDSGQEP TVGSQIQRVV SMAALAMVCE AIDQKPELQL DSLHAGPLES
FLSSLQLNQT LQKPHAEEQS SYAHPLECSS VLEESSSSQG WGKIVAQYIH DQWVCLSFL
KKYHTLIPTT GSEILEPFLP AVQMPIRTLQ SALEALTVLS SDQVLPVFHC LKVLVPKLLT
SSESLCIESF DMAWKISSL SNTQLIFWAN LKAFVQFVFD NKVLTIAAKI KGQAYFKIKE
IMYKIIEMSA IKTGVFNTLI SYCCQSWIVS ASNVSQGSLS SAKNYSELIL EACIFGTVFR
RDQRLVQDVQ TFIE NLGHDC AANIVMENTK REDHYVRICA VKFLCLLDGS NMSHKLFI
LAIKLLDKDE LVSKSKKRYV VNSLQHRVKN RVWQTLVLF PRLDQNFLNG IIDRIFQAGF
TNNQASIKYF IEWIIILIH KFPQFLPKFW DCFSYGEENL KTSICTFLAV LSHLDITQN IPEKKLILKQ
ALIVVLQWCF NHNFSVRLYA LVALKKLWTV CKVLSVEEFD ALTPVIESSL HQVESMHGAG
NAKKNWQRIQ EHFFFATFHP LKDYCLETIF YILPRLSGLI EDEWITIDKF TRFTDVPLAA
GFQWYLSQTQ LSKLPGDWS QQDIGTNLVE ADNQA EWTDV QKKIIPWNSR VSDLLELLF
QDRAARLGKS ISRLIVVASL IDKPTNLGGL CRTCEVFGAS VLVVGS LQCI SDKQFQHLSV
SAEQWLPLVE VKPPQLIDYL QQKKTEGYTI IGVEQTAKSL DLTQYCFPEK SLLLLGNERE
GIPANLIQQL DVCVEIPQQG IIRSLNVHVS GALLIWEYTR QQLLSHGDTK P

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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-

Product Details

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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	TARBP1
Alternative Name:	TARBP1 (TARBP1 Products)
Background:	Probable methyltransferase TARBP1 (EC 2.1.1.-) (TAR RNA-binding protein 1) (TAR RNA-binding protein of 185 kDa) (TRP-185),FUNCTION: Probable S-adenosyl-L-methionine-dependent methyltransferase which methylates RNA molecules such as tRNAs. {ECO:0000305 PubMed:18412263},. FUNCTION: (Microbial infection) In case of infection by HIV-1, it binds to the loop region of TAR RNA, a region also bound by RNA polymerase II (PubMed:7638159, PubMed:8626763, PubMed:8846792). Binding of TARBP1 and RNA polymerase II to HIV-1 TAR RNA is mutually exclusive, suggesting that TARBP1 may function

Target Details

alone or in conjunction with HIV-1 Tat to disengage RNA polymerase II from HIV-1 TAR RNA (PubMed:7638159, PubMed:8626763, PubMed:8846792). {ECO:0000269|PubMed:7638159, ECO:0000269|PubMed:8626763, ECO:0000269|PubMed:8846792}.

Molecular Weight: 181.7 kDa

UniProt: [Q13395](#)

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 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. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process