

Datasheet for ABIN3093698

MYBBP1A Protein (AA 1-1328) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	MYBBP1A
Protein Characteristics:	AA 1-1328
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYBBP1A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MESRDPAQPM SPGEATQSGA RPADRYGLLK HSREFLDFFW DIAKPEQETR LAATEKLLEY LRGRPKGSEM KYALKRLITG LGVGRETARP CYSLALAQLL QSFEDLPLCS ILQQIQEKYD LHQVKKAMLR PALFANLFGV LALFQSGRLV KDQEALMKSV KLLQALAQYQ NHLQEQPRKA LVDILSEVSK ATLQEILPEV LKADLNIILS SPEQLELFL AQQKVPSKLK KLVGSVNLFS DENVPRLVNV LKMAASSVKK DRKLPAIALD LLRLALKEDK FPRFWKEVVE QGLLKMQFWP ASYLCFRLLG AALPLLTKEQ LHLVMQGDVI RHYGEHVCTA KLPKQFKFAP EMDDYVGTF EGCQDDPERQ LAVLVAFSSV TNQGLPVTPT FWRVVRFLSP PALQGYVAWL RAMFLQPDLD SLVDFSTNNQ KKAQDSSLHM PERAVFRLRK WIIFRLVSIV DSLHLEMEEA LTEQVARFCL FHSFFVTKKP TSQIPETKHP FSFPLENQAR EAVSSAFFSL LQTLSTQFKQ APGQTQGGQP WTYHLVQFAD LLLNHSNVT TVTPFTAQQR QAWDRMLQTL KELEAHSAEA RAAAFQHLLL LVGIHLLKSP AESCDLLGDI QTCIRKSLGE KPRRSRTKI DPQEPWVEV LVEILLALLA QPSHLMRQVA RSVFGHICSH LTPRALQLIL DVLNPETSED ENDRVVVTDD SDERRLKGA
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DKSEEGEDNR SSESEEESEG EESEEEERDG DVDQGFREQL MTVLQAGKAL GGEDSENEEE
LGDEAMMALD QSLASLFAEQ KLRIQARRDE KNKLQKEKAL RRDFQIRVLD LVEVLVTKQP
ENALVLELLE PLLSIIRSL RSSSSKQEQD LLHKTARIFT HHLCRARRYC HDLGERAGAL
HAQVERLVQQ AGRQPDSP TA LYHFNASLYL LRVLKGNTAE GCVHETQEQK KAGTDPSHMP
TGPQAASCLD LNLVTRVYST ALSSFLTKRN SPLTVPMFLS LFSRHPVLCQ SLLPILVQHI
TGPVRPRHQA CLLLQKTL SM REVRSCFEDP EWKQLMGQVL AKVTENLRVL GEAQTKAQHQ
QALSSLELLN VLFRTCKHEK LTLDLTVLLG VLQGGQQSLQ QGAHSTGSSR LHDLYWQAMK
TLGVQRPKLE KKDAKEIPSA TQSPISKRK KKGFLPETKK RKKRKS EDTG PAEDGTPAAT
GGSQPPSMGR KKRNR TKAKV PAQANGTPTT KSPAPGAPTR SPSTPAKSPK LQKKNQKPSQ
VNGAPGSPTE PAGQKQHQA LPKKGVLGKS PLSALARKKA RLSLVIRSPS LLQSGAKKKA
QVRKAGKP

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-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

Product Details

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®): 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:	MYBBP1A
Alternative Name:	MYBBP1A (MYBBP1A Products)
Background:	Myb-binding protein 1A,FUNCTION: May activate or repress transcription via interactions with sequence specific DNA-binding proteins (By similarity). Repression may be mediated at least in part by histone deacetylase activity (HDAC activity) (By similarity). Acts as a corepressor and in concert with CRY1, represses the transcription of the core circadian clock component PER2 (By similarity). Preferentially binds to dimethylated histone H3 'Lys-9' (H3K9me2) on the PER2 promoter (By similarity). Has a role in rRNA biogenesis together with PWP1 (PubMed:29065309). {ECO:0000250 UniProtKB:Q7TPV4, ECO:0000269 PubMed:29065309}.
Molecular Weight:	148.9 kDa
UniProt:	Q9BQG0

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.
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Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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Restrictions:	For Research Use only
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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