Datasheet for ABIN3089924

BAZ1A Protein (AA 1-1556) (Strep Tag)

1 Image

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Overview

Quantity:	1 mg
Target:	BAZ1A
Protein Characteristics:	AA 1-1556
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BAZ1A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MPLLHRKPFV RQKPPADLRP DEEVFYCKVT NEIFRHYDDF FERTILCNSL VWSCAVTGRP GLTYQEALES EKKARQNLQS FPEPLIIPVL YLTSLTHRSR LHEICDDIFA YVKDRYFVEE TVEVIRNNGA RLQCRILEVL PPSHQNGFAN GHVNSVDGET IIISDSDDSE TQSCSFQNGK KKDAIDPLLF KYKVQPTKKE LHESAIVKAT QISRRKHLFS RDKLKLFLKQ HCEPQDGVIK IKASSLSTYK IAEQDFSYFF PDDPPTFIFS PANRRRGRPP KRIHISQEDN VANKQTLASY RSKATKERDK LLKQEEMKSL AFEKAKLKRE KADALEAKKK EKEDKEKKRE ELKKIVEEER LKKKEEKERL KVEREKEREK LREEKRKYVE YLKQWSKPRE DMECDDLKEL PEPTPVKTRL PPEIFGDALM VLEFLNAFGE LFDLQDEFPD GVTLEVLEEA LVGNDSEGPL CELLFFFLTA IFQAIAEEEE EVAKEQLTDA DTKDLTEALD EDADPTKSAL SAVASLAAAW PQLHQGCSLK SLDLDSCTLS EILRLHILAS GADVTSANAK YRYQKRGGFD ATDDACMELR LSNPSLVKKL SSTSVYDLTP GEKMKILHAL CGKLLTLVST RDFIEDYVDI LRQAKQEFRE LKAEQHRKER EEAAARIRKR KEEKLKEQEQ KMKEKQEKLK EDEQRNSTAD ISIGEEERED FDTSIESKDT

EQKELDQDMV TEDEDDPGSH KRGRRGKRGQ NGFKEFTRQE QINCVTREPL TADEEEALKQ EHQRKEKELL EKIQSAIACT NIFPLGRDRM YRRYWIFPSI PGLFIEEDYS GLTEDMLLPR PSSFQNNVQS QDPQVSTKTG EPLMSESTSN IDQGPRDHSV QLPKPVHKPN RWCFYSSCEQ LDQLIEALNS RGHRESALKE TLLQEKSRIC AQLARFSEEK FHFSDKPQPD SKPTYSRGRS SNAYDPSQMC AEKQLELRLR DFLLDIEDRI YQGTLGAIKV TDRHIWRSAL ESGRYELLSE ENKENGIIKT VNEDVEEMEI DEQTKVIVKD RLLGIKTETP STVSTNASTP QSVSSVVHYL AMALFQIEQG IERRFLKAPL DASDSGRSYK TVLDRWRESL LSSASLSQVF LHLSTLDRSV IWSKSILNAR CKICRKKGDA ENMVLCDGCD RGHHTYCVRP KLKTVPEGDW FCPECRPKQR SRRLSSRQRP SLESDEDVED SMGGEDDEVD GDEEEGQSEE EEYEVEQDED DSQEEEEVSL PKRGRPQVRL PVKTRGKLSS SFSSRGQQQE PGRYPSRSQQ STPKTTVSSK TGRSLRKINS APPTETKSLR IASRSTRHSH GPLQADVFVE LLSPRRKRRG RKSANNTPEN SPNFPNFRVI ATKSSEQSRS VNIASKLSLQ ESESKRRCRK RQSPEPSPVT LGRRSSGRQG GVHELSAFEQ LVVELVRHDD SWPFLKLVSK IQVPDYYDII KKPIALNIIR EKVNKCEYKL ASEFIDDIEL MFSNCFEYNP RNTSEAKAGT RLQAFFHIQA QKLGLHVTPS NVDQVSTPPA AKKSRI

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.

Product 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!

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:	BAZ1A
Alternative Name:	BAZ1A (BAZ1A Products)
Background:	Bromodomain adjacent to zinc finger domain protein 1A (ATP-dependent chromatin-remodeling protein) (ATP-utilizing chromatin assembly and remodeling factor 1) (hACF1) (CHRAC subunit ACF1) (Williams syndrome transcription factor-related chromatin-remodeling factor 180) (WCRF180) (hWALp1),FUNCTION: Regulatory subunit of the ATP-dependent ACF-1 and ACF-5 ISWI chromatin remodeling complexes, which form ordered nucleosome arrays on chromatin and slide edge- and center-positioned histone octamers away from their original location on the DNA template to facilitate access to DNA during DNA-templated processes

Target Details

	such as DNA replication, transcription, and repair (PubMed:17099699, PubMed:28801535). Both complexes regulate the spacing of nucleosomes along the chromatin and have the ability to slide mononucleosomes to the center of a DNA template in an ATP-dependent manner (PubMed:14759371, PubMed:17099699, PubMed:28801535). The ACF-1 ISWI chromatin remodeling complex has a lower ATP hydrolysis rate than the ACF-5 ISWI chromatin remodeling complex (PubMed:28801535). Has a role in sensing the length of DNA which flank nucleosomes, which modulates the nucleosome spacing activity of the ACF-5 ISWI chromatin remodeling complex (PubMed:17099699). Involved in DNA replication and together with SMARCA5/SNF2H is required for replication of pericentric heterochromatin in S-phase (PubMed:12434153). May have a role in nuclear receptor-mediated transcription repression (PubMed:17519354). {ECO:0000269|PubMed:12434153, ECO:0000269|PubMed:14759371, ECO:0000269|PubMed:17099699, ECO:0000269|PubMed:17519354, ECO:0000269|PubMed:28801535}.
Molecular Weight:	178.7 kDa
UniProt:	Q9NRL2

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)

Images

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