Datasheet for ABIN3090004

BRD9 Protein (AA 1-597) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	BRD9
Protein Characteristics:	AA 1-597
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BRD9 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MGKKHKKHKA EWRSSYEDYA DKPLEKPLKL VLKVGGSEVT ELSGSGHDSS YYDDRSDHER ERHKEKKKKK KKKSEKEKHL DDEERRKRKE EKKRKREREH CDTEGEADDF DPGKKVEVEP PPDRPVRACR TQPAENESTP IQQLLEHFLR QLQRKDPHGF FAFPVTDAIA PGYSMIIKHP MDFGTMKDKI VANEYKSVTE FKADFKLMCD NAMTYNRPDT VYYKLAKKIL HAGFKMMSKQ AALLGNEDTA VEEPVPEVVP VQVETAKKSK KPSREVISCM FEPEGNACSL TDSTAEEHVL ALVEHAADEA RDRINRFLPG GKMGYLKRNG DGSLLYSVVN TAEPDADEEE THPVDLSSLS SKLLPGFTTL GFKDERRNKV TFLSSATTAL SMQNNSVFGD LKSDEMELLY SAYGDETGVQ CALSLQEFVK DAGSYSKKVV DDLLDQITGG DHSRTLFQLK QRRNVPMKPP DEAKVGDTLG DSSSSVLEFM SMKSYPDVSV DISMLSSLGK VKKELDPDDS HLNLDETTKL LQDLHEAQAE RGGSRPSSNL SSLSNASERD QHHLGSPSRL SVGEQPDVTH DPYEFLQSPE PAASAKT **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 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.

Product Details

	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:	BRD9
Alternative Name:	BRD9 (BRD9 Products)
Background:	Bromodomain-containing protein 9 (Rhabdomyosarcoma antigen MU-RMS-40.8),FUNCTION: Plays a role in chromatin remodeling and regulation of transcription (PubMed:22464331, PubMed:26365797). Acts as a chromatin reader that recognizes and binds acylated histones: binds histones that are acetylated and/or butyrylated (PubMed:26365797). Component of SWI/SNF chromatin remodeling subcomplex GBAF that carries out key enzymatic activities, changing chromatin structure by altering DNA-histone contacts within a nucleosome in an ATP-dependent manner (PubMed:29374058). Orchestrates also the RAD51-RAD54 complex formation and thereby plays a role in homologous recombination (HR) (PubMed:32457312). {ECO:0000269|PubMed:22464331, ECO:0000269|PubMed:26365797, ECO:0000269|PubMed:29374058, ECO:0000269|PubMed:32457312}.
Molecular Weight:	67.0 kDa
UniProt:	Q9H8M2

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

Application Details

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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