

Datasheet for ABIN3136654

## BRD8 Protein (AA 1-951) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	BRD8
Protein Characteristics:	AA 1-951
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BRD8 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

### Product Details

Brand:	AliCE®
Sequence:	<p>MATGTGKHKL LSTGPTEPWS IREKLCLASS VMRSGDQNWV SVSRAIKPFA EPGRPPDWFS</p> <p>QKHCASQYSE LLETTETPKR KRGEKGEVVE TVEDVIVRKL TAERVEELKK VIKETQERYR</p> <p>RLKRDAELIQ AGHMDSRLDE LCNDIAMKKK LEEEEEAEVKR KATDAAYQAR QAVKTPPRRL</p> <p>PTVMVRSPVD SASPGGDYPL GDLTPTTMEE ATSGVTPGTL PSTPVTSFPG IPDTLPPGSA</p> <p>PLEAPMTPIT DDSPQKKMLG QKATPPPSPL LSELLKKGSL LPTSPRLVNE SEMPVPPGHL</p> <p>NSTGVLLEV GVLPMIHGGE IQPTTSAVAA SPAASGAPTL SRLLEAGPTQ FTTPLPSFTT</p> <p>VASEPPVKLV PPPVESVSQA TIVMMPALPA PSSAAAVSTS ESGAPVSQPE PCVPLEAVGD</p> <p>PHTVTVSMDS NEISMIINSI KEECFRSGVA EAPGGSKAPS IDGKEDDLA EKMDIAVSYT</p> <p>GEELDFETVG DIIAIEDKV DDHPEVLDVA AVEAALSFCE ENDDPQSLPG PWEHPIQQR</p> <p>DKPVPLPAPE MTKVQERLDF EESSENKGLHD LVDIRDSGVE IKVEPTEPEP GMSGAEIVAG</p> <p>VGPVPSMEPP ELRSQDSDEE PRSSAAGDIG EADGSSGKGD ERPLSAVKTE ASPESMLSPS</p>

HGSNLIEDPL EAETQHKFEM SDSLKEESGT IFGSQIKDAP GDDEEEDGVS EAASLEEPKE  
EDQGEGYLSE MDNEPPVSES DDGFSIHNAT LQSHTLADSI PSSPASSQFS VCSEDQEAIQ  
AQKIWKKAIM LVWRAAANHR YANVFLQPVTD DDIAPGYHSI VQRPMDLSTI KKNIENGLIR  
STAEFQRDIM LMFQNAVMYN SSDHDVYHMA VEMQRDVLEQ IQQFLATQLI MQTSESGISA  
KSLRGRDSTR KQDASEKDSV PMGSPAFLLS LFDGGTRGRR CAIEADMKMK K

**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.**

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### 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 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.

## Product Details

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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

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Target:	BRD8
Alternative Name:	Brd8 ( <a href="#">BRD8 Products</a> )
Background:	<p>Bromodomain-containing protein 8,FUNCTION: May act as a coactivator during transcriptional activation by hormone-activated nuclear receptors (NR). Stimulates transcriptional activation by AR/DHTR, ESR1/NR3A1, RXRA/NR2B1 and THRB/ERBA2. Component of the NuA4 histone acetyltransferase (HAT) complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage. Component of a SWR1-like complex that specifically mediates the removal of histone H2A.Z/H2AZ1 from the nucleosome.</p>
Molecular Weight:	102.6 kDa
UniProt:	<a href="#">Q8R3B7</a>

## Application Details

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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 <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.

## Application Details

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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

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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