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Datasheet for ABIN3130858

## BRCAA1 Protein (AA 1-1314) (His tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	BRCAA1 (ARID4B)
Protein Characteristics:	AA 1-1314
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BRCAA1 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence: MKALDEPPYL TVGTDVSAKY RGAFCEAKIK TAKRLVKVKV TFRHDSSTVE VQDDHIKGPL  
KVGAIWEVKN LDGAYQEAVI NKLTDASWYT VFDDGDEKT LRRSSLCLKG ERHFAESETL  
DQLPLTNPEH FGTPVIGKKT NRGRSNHIP EEESSSSSSD DDEEERKQTD ELLGKVVQVD  
YVSLEKKKAM WFPALVPCPD CSDEIAVKKD NILVRSFKDG KFTSVPRKDV HEITSDTVPK  
PDAVLKQAFD QALEFHKSRA IPANWKTELK EDSSSSEAE EEEEEDEKE KEDNSSEEEE  
EIEPFPEERE NFLQQLYKFM EDGRTPINKR PVLGYRNLNL FKLFRLVHKL GGFNDIESGA  
VWKQVYQDLG IPVLNSAAGY NVKCAKYYL YGFEEYCRSA NIDFQMALPE KVLNPKCKDC  
ENKEVKVKEE SETEIKEVNV EDSKNVMPKE ETPAEDESER KENIKPSLGS KKSLLLECIPA  
QSDEEKEAHI TKLEENENLE DKDGGARTE EAFSTEVDGE EEQARSGDET NKEEDEDDEE  
IEEEEEDEE EDEDEDDDDN NEEEFECYP PGMKVQVRYG RGKNQKMYEA SIKDSDVEGG  
EALYLVHYCG WNVRYDEWIK ADKIVRPADK NVPKIKHRKK IKNKLDKEKD RDEKYSKNC  
KLRRLSKSPF QSNPSPMVS KLDLADAKNS DTAHIKSIEI TSILNGLQAS ESSAEDSEQE

DERCTQDVND IGTKDESKVEH STHSRNELIS KEEQSSPSLL EENKVHTDLV IAKTVSKSPE  
RLRKDMEAIS EDTDFEEDE ITKKRKDVKK DTTDKALKPQ TKRGKRRYCS ADECLQTGSP  
GKKEDRTKSK EPLCTENSSN SSSDEDEEEK SKAKMTPTKK YNGLEEKRKS LRTTSFYSGF  
SEVAEKRIKL LNNSDERLQN NRAKDRKDVW SSIQGQWPKK TLKELFSDSD TEAAASPPHP  
APDEGAVEES LQTVAAEEESC SPIMELEKPL PASVDNKPIE EKPLEVSDRK TEFSSGSNS  
VLNTPPTTPE SPSSVTITEA SQQQSSVTVS VPLPPNQUEEV RSIKSETDST IEVDSVVGEL  
QDLQSEGNSS PAGFDASVSS SSSNQPEPDN PEKACTGQKR VKDTQGVGSS SKKQKRSHKA  
TVVNNKKKGGK GTNSSDSEEL SAGESVTKTQ TIKSVPTGMK THNSKSPARV QSPGKGGRRNG  
DKDPLKEPS NRLPKVYKWS FQTSLENMT SAERISILQE KLQEIRKHYL SLKSEVASID  
RRRKRLKKKE RESAATSSSS SSPSSSSITA AVMLTLAEPS MSSASQNGMS VECR

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Arid4b Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

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### Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three

## Product Details

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different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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.

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Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
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Sterility:	0.22 µm filtered
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Endotoxin Level:	Protein is endotoxin free.
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Grade:	Crystallography grade
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## Target Details

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Target:	BRCAA1 (ARID4B)
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Alternative Name:	Arid4b ( <a href="#">ARID4B Products</a> )
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Background:	Acts as a transcriptional repressor. May function in the assembly and/or enzymatic activity of the Sin3A corepressor complex or in mediating interactions between the complex and other regulatory complexes (By similarity). {ECO:0000250}.
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Molecular Weight:	148.6 kDa Including tag.
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UniProt:	<a href="#">A2CG63</a>
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## 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.
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Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
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Restrictions:	For Research Use only
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## Handling

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Format:	Liquid
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## Handling

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Buffer:	100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

## Images

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