

Datasheet for ABIN3093203

JARID2 Protein (AA 1-1246) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	JARID2
Protein Characteristics:	AA 1-1246
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This JARID2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MSKERPKRNI IQKKYDDSDG IPWSEERVVR KVLVLSLKEF KNSQKRQHAE GIAGSLKTVN</p> <p>GLLGNDQSKG LGPASEQSEN EKDDASQVSS TSNDVSSSDF EEGPSRKPR LQAQRKFAQS</p> <p>QPNPSTTPV KIVEPLPPP ATQISDLSKR KPKTEDFLT LCLRGSPALP NSMVYFGSSQ</p> <p>DEEEVEEEDD ETEDVKTATN NASSSCQSTP RKGKTHKHVH NGHVFNGSSR STREKEPVQK</p> <p>HKSKEATPAK EKHSDHRADS RREQASANHP AAPSTGSSA KGLAATHHHP PLHRSAQDLR</p> <p>KQVSKVNGVT RMSSLGAGVT SAKKMREVRP SPSKTVKYTA TVTKGAVTYT KAKRELVKDT</p> <p>KPNHHKPSSA VNHTISGKTE SSNAKTRKQV LSLGGASKST GPAVNGLKVS GRLNPKSCTK</p> <p>EVGGRQLREG LQLREGLRNS KRRLEEAHQA EKPQSPPKKM KGAAGPAEGP GKKAPAERGL</p> <p>LNGHVKKEVP ERSLEARNRPK RATAGKSTPG RQAHGKADSA SCENRSTSQP ESVHKPQDSG</p> <p>KAKEGGGKAG WAAMDEIPVL RPSAKEFHDP LIYESVRAQ VEKFGMCRVI PPPDWRPECK</p> <p>LNDEMRFVTQ IQHIHKLGRW WGPVQRLAC IKKHLKSQGI TMDELPLIGG CELDLACFFR</p>

LINEMGGMQQ VTDLKKWNKL ADMLRIPRTA QDRLAKLQEA YCQYLLSYDS LSPEEHRRLE
KEVLMEKEIL EKRKGPLEGH TENDHHKFHP LPRFEPKNGI IHGVAPRNGF RSKLKEVGQA
QLKTGRRRLF AQEKEVVKEE EEDKGVNLDF HKCIYKGRSV SLTTFYRTAR NIMSMCFSKE
PAPAEIEQY WRLVEEKDCH VAVHCGKVDI NTHGSGFPVG KSEPF SRHGW NLTVLPNNTG
SILRHLGAVP GVTIPWLNIG MVFSTSCWSR DQNHLPYIDY LHTGADCIWY CIPAEENKL
EDVVHTLLQA NGTPGLQMLE SNVMISPEVL CKEGIKVHRT VQQSGQFVVC FPGSFVSKVC
CGYSVSETVH FATTQWTSMG FETAKEMKRR HIAKPFSMEK LLYQIAQAEA KKENGPTLST
ISALLDELTD TELRQRRQLF EAGLHSSARY GSHDGSSTVA DGKKKPRKWL QLETSEERRCQ
ICQHLCYLSM VVQENENVVF CLECALRHVE KQKSCRGLKL MYRYDEEQII SLVNQICGKV
SGKNGSIENC LSKPTPKRGP RKRATVDVPP SRLSASSSSK SASSSS

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 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!

Product Details

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.

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

Target:	JARID2
Alternative Name:	JARID2 (JARID2 Products)
Background:	<p>Protein Jumonji (Jumonji/ARID domain-containing protein 2),FUNCTION: Regulator of histone methyltransferase complexes that plays an essential role in embryonic development, including heart and liver development, neural tube fusion process and hematopoiesis (PubMed:20075857). Acts as an accessory subunit for the core PRC2 (Polycomb repressive complex 2) complex, which mediates histone H3K27 (H3K27me3) trimethylation on chromatin (PubMed:20075857, PubMed:29499137, PubMed:31959557). Binds DNA and mediates the recruitment of the PRC2 complex to target genes in embryonic stem cells, thereby playing a key role in stem cell differentiation and normal embryonic development (PubMed:20075857). In cardiac cells, it is required to repress expression of cyclin-D1 (CCND1) by activating methylation of 'Lys-9' of histone H3 (H3K9me) by the GLP1/EHMT1 and G9a/EHMT2 histone methyltransferases (By similarity). Also acts as a transcriptional repressor of ANF via its interaction with GATA4 and NKX2-5 (By similarity). Participates in the negative regulation of cell proliferation signaling (By similarity). Does not have histone demethylase activity (By similarity). {ECO:0000250 UniProtKB:Q62315, ECO:0000269 PubMed:20075857, ECO:0000269 PubMed:29499137, ECO:0000269 PubMed:31959557}.</p>
Molecular Weight:	138.7 kDa
UniProt:	Q92833
Pathways:	Chromatin Binding

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.
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