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Datasheet for ABIN3135541
JARID2 Protein (AA 1-1234) (Strep Tag)

Overview

Quantity:	1 mg
Target:	JARID2
Protein Characteristics:	AA 1-1234
Origin:	Mouse
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This JARID2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MSKERPKRNI IQKKYDDSDG IPWSEERVVR KVLVLSLKEF KNAQKRQHGE GLAGSLKAVN
GLLGNAQAKA LGPASEQSEN EKDDASQVSS TSNDVSSSDF EEGPSRKRPR LQAQRKFAQS
QPNSPSTTPV KIVEPLPPP ATQISDLSKR KPKTEDFLTFL LCLRGSPALP NSMVYFGSSQ
DEEDVEEEDD ETEDVKATTN NASSSCQSTP RKGKTHKHVH NGHVFNGSSR SAREKEPAHK
HRSKEATPGK EKHSEPRADS RREQASGAQP TAASAAASSA KGLAANHQPP PSHRSAQDLR
KQVSKVNGVT RMSSLGAGTN SAKKIREVRP SPSKTVKYTA TVTKGTVTYT KAKRELVKET
KPNHHKPSSA VNHTISGKTE SNAKTRKQV LSLGGASKST GPAASGLKAS SRLNPKSCTK
EVGGRQLREG LRNSKRRLEE AQQVDKPQSP PKMKMGVAGN AEAPGKKASA ASGEKSLNG
HVKKEVPERS LERNRPKRAA AGKNMLGKQA HGKTEGTPCE NRSTSQPSS HKPHDPQGKP
EKSGSGS GWA AMDEIPVLRP SAKEFHDPLI YIESVRAQVE KYGMCRVIPP PDWRPECKLN
DEMRFVTQIQ HIHKLGRRWG PNVQLACIK KHLRSQGITM DELPLIGGCE LDLACFFRLI
NEMGGMQQVT DLKKWNKLAD MLRIPKTAQD RLAQLQEAYC QYLLSYDSLS PEEHRRLEKE

VLMEKEILEK RKGPLEGHTE SDHHKFHSLP RFEPKNGLVH GVTPRNGFRS KLKEVGRAPL
KTGRRRLFAQ EKEVVKEEEE DKGVLNDFHK CIYKGRSVSL TTFYRTARNI MNMCFKSKEPA
PAEIEQEYWR LVEEKDCHVA VHC GKVD TNT HGSGFPVGKS EPFSRHGWNL TVLPNNTGSI
LRHLGAVPGV TIPWLNIGMV FSTSCWSRDQ NHLPYIDYLH TGADCIWYCI PAEEENKLED
VVHTLLQGNG TPG LQMLESN VMISPEVLCK KGIKVHRTVQ QSGQFVVCFP GSFVSKVCCG
YNVSE TVHFA TTQW TSMGFE TAKEMKRRHI AKPFSMEKLL YQIAQAEAKK ENGPTLSTIS
ALLDEL RDTE LRQRLLFEA GLHSSARYGS HDGNSTVADG KKKPRKWLQL ETSERRCQIC
QHLCYLSMVV QENENVFCL ECALRHVEKQ KSCRGLKLMY RYDEEQIISL VNQICGKVSG
KHGGIENCLN KPTPKRGPRK RATVDVPPSR LPSS

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!

Product Details

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)

Target Details

Target:

JARID2

Alternative Name:

Jarid2 ([JARID2 Products](#))

Background:

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:10807864, PubMed:12852854, PubMed:12890668, PubMed:15542826, PubMed:15870077, PubMed:19010785, PubMed:20064375, PubMed:20064376, 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:20064376, PubMed:20064375). 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:20064375, 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 (PubMed:12852854, PubMed:12890668, PubMed:19010785). Also acts as a transcriptional repressor of ANF via its interaction with GATA4 and NKX2-5

Target Details

(PubMed:15542826). Participates in the negative regulation of cell proliferation signaling (PubMed:10913339). Does not have histone demethylase activity (PubMed:20064376). {ECO:0000269|PubMed:10807864, ECO:0000269|PubMed:10913339, ECO:0000269|PubMed:12852854, ECO:0000269|PubMed:12890668, ECO:0000269|PubMed:15542826, ECO:0000269|PubMed:15870077, ECO:0000269|PubMed:19010785, ECO:0000269|PubMed:20064375, ECO:0000269|PubMed:20064376, ECO:0000269|PubMed:20075857}.

Molecular Weight: 137.4 kDa

UniProt: [Q62315](#)

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. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Handling

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)