

Datasheet for ABIN3089114

## ARID5A Protein (AA 1-594) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	ARID5A
Protein Characteristics:	AA 1-594
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARID5A protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	MAAPVKGNRK QSTEGDALDP PASPKAGKQ NGIQNPISLE DSPEAGGERE EEQEREEQA FLVSLYKFMK ERHTPIERVV HLGFKQINLW KIYKAVEKLG AYELVTGRRRL WKNVYDELGG SPGSTSAATC TRRHYERLVL PYVRHLKGED DKPLPTSKPR KQYKMAKENR GDDGATERPK KAKEERRMDQ MMPGKTKADA ADPAPLPSQE PPRNSTEQQG LASGSSVSFV GASGCPEAYK RLLSSFYCKG THGIMSPLAK KKLLAQVSKV EALQCQEEGC RHGAEPQASP AVHLPESPQS PKGLTENSRL RLTPQEGLQA PGGSLREEAQ AGPCPAAPIF KGCFYTHPTE VLKPVSQHPR DFFSRLKDG V LLGPPGKEGL SVKEPQLVWG GDANRPSAFH KGGSRKILY PKPKACWVSP MAKVPAESPT LPPTFPSSPG LGSKRSLEEE GAAHSGKRLR AVSPFLKEAD AKKCGAKPAG SGLVSCLLGP ALGPVPPEAY RGTMLHCLPLN FTGTPGPLKG QAALPFSPLV IPAFPAHFLA TAGPSPMAAG LMHFPPTSFD SALRHRLCPA SSAWHAPPVT TYAAPHHFHL NTKL <b>Sequence without tag. The proposed Strep-Tag is based on experience s with the expression</b>

**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.

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### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

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### Purity:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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### Grade:

custom-made

## Target Details

Target:	ARID5A
Alternative Name:	ARID5A ( <a href="#">ARID5A Products</a> )
Background:	<p>AT-rich interactive domain-containing protein 5A (ARID domain-containing protein 5A) (Modulator recognition factor 1) (MRF-1),FUNCTION: Binds to AT-rich stretches in the modulator region upstream of the human cytomegalovirus major intermediate early gene enhancer. May act as repressor and down-regulate enhancer-dependent gene expression (PubMed:8649988). May positively regulate chondrocyte-specific transcription such as of COL2A1 in collaboration with SOX9 and positively regulate histone H3 acetylation at chondrocyte-specific genes. May stimulate early-stage chondrocyte differentiation and inhibit later stage differentiation (By similarity). Can repress ESR1-mediated transcriptional activation, proposed to act as corepressor for selective nuclear hormone receptors (PubMed:15941852). As RNA-binding protein involved in the regulation of inflammatory response by stabilizing selective inflammation-related mRNAs, such as IL6, STAT3 and TBX21. Binds to stem loop structures located in the 3'UTRs of IL6, STAT3 and TBX21 mRNAs, at least for STAT3 prevents binding of ZC3H12A to the mRNA stem loop structure thus inhibiting its degradation activity. Contributes to elevated IL6 levels possibly implicated in autoimmunity processes. IL6-dependent stabilization of STAT3 mRNA may promote differentiation of naive CD4+ T-cells into T-helper Th17 cells. In CD4+ T-cells may also inhibit RORC-induced Th17 cell differentiation independently of IL6 signaling. Stabilization of TBX21 mRNA contributes to elevated interferon-gamma secretion in Th1 cells possibly implicated in the establishment of septic shock (By similarity). Stabilizes TNFRSF4/OX40 mRNA by binding to the conserved stem loop structure in its 3'UTR, thereby competing with the mRNA-destabilizing functions of RC3H1 and endoribonuclease ZC3H12A (By similarity). {ECO:0000250 UniProtKB:Q3U108, ECO:0000269 PubMed:15941852, ECO:0000269 PubMed:8649988}.</p>
Molecular Weight:	64.1 kDa
UniProt:	<a href="#">Q03989</a>

## 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.
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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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months