

Datasheet for ABIN7564391  
**ARID5B Protein (AA 1-1188) (His tag)**



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## Overview

Quantity:	1 mg
Target:	ARID5B
Protein Characteristics:	AA 1-1188
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARID5B protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat Arid5b Protein expressed in mammalien cells.
Sequence:	<p>MEPNSLQWVG SPCGLHGPIYI FYKAFQFHLE GKPRILSLGD FFFVRCTPKD PICIAELQLL WEERTSRQLL SSSKLYFLPE DTPQGRNSDH GEDEVIAVSE KVIVKLEDLV KWAHSDFSKW RCGLRATPVK TEAFGRNGQK EALLRYRQST LNSGLNFKDV LKEKADLGED EEETNVIVLS YPQYCRYRSM LKRIQDKPSS ILTDQFALAL GGIAVVSRNP QILYCRDTFD HPTLIENESV CDEFAPNLKG RPRKKKTCQP RRDSFSGSKD PNNNCDGKVI SKVKGEARSA LTKPKNNHNN CKKTSNEEKP KLSIGEECRA DEQAFVALY KYMKERKTP IERIPYLGFKQ INLWTMFQAA QKLGGETIT ARRQWKHIYD ELGGNPGSTS AATCTRRHYE RLILPYERFI KGEEDKPLPP IKPRKQENNT QENENKTKVS GNKRIKQEMA KNKKEKENTP KPQDTSEVSS EQRKEEETLN HKSAPPELPA PEVKGKPEGH KDLGARAPVS RADPEKANET DQGSNSEKEA EEMGDKGLAP LLPSPPLPPE KDSAPTPGAG KQPLASPSTQ MDSKQEAKPC CFTESPEKDL QGAPFSSFSA TKPPLTSQNE AEEEQLPATA NYIANCTVKV DQLGSDDIHT ALKQTPKVLV VQSFDMFKDK</p>

## Product Details

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DLTGPMNENH GLNYTPLLYS RGNPGIMSPL AKKKLLSQVS GASLSSSYPY GSPPLISKK  
KLIAREDLCS GLSQGHHSQS SDHTAVSRPS VIQHVQSFKN KASEDRKSIN DIFKHKLSR  
SDAHRCGFSK HQLGSLADSY ILKQETQEGK DKLLEKRAVS HAHVPSFLAD FYSSPHLHSL  
YRHTEHHLHN EQSSKYAARD AYQESENGAF LSHKHPEKIH VNYLASLHLQ DKKVAAAAS  
TDDQPTDLSL PKNPHKLTSK VLGLAHSTSG SQEIKGASQF QVVSNQSRDC HPKACRVSPM  
TMSGPKKYPE SLARSGKPHQ VRLENFRKME GMVHPILHRK MSPQNIGAAR PIKRSLEDLD  
LVIAGKKARA VSPLDPAKEA SGKEKASEQE SEGNKGAYGG HSGAASEGHK LPLSTPIFPG  
LYSGSLCNSG LNSRLPAGYS HSLQYLKNQT VLSPLMQPLA FHSLVMQRGI FTSPTNSQQL  
YRHAAATPV GSSYGDLLHN SIYPLAGINP QAAPSSQLS SVHPSTKL **Sequence without tag.**

**The proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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Purity: > 90 % as determined by Bis-Tris Page, Western Blot

Grade: custom-made

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## Target Details

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Target: ARID5B

Alternative Name: Arid5b ([ARID5B Products](#))

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Background: AT-rich interactive domain-containing protein 5B (ARID domain-containing protein 5B)

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## Target Details

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(Developmentally and sexually retarded with transient immune abnormalities protein) (Desrt) (MRF1-like) (Modulator recognition factor protein 2) (MRF-2),FUNCTION: Transcription coactivator that binds to the 5'-AATA[CT]-3' core sequence and plays a key role in adipogenesis and liver development. Acts by forming a complex with phosphorylated PHF2, which mediates demethylation at Lys-337, leading to target the PHF2-ARID5B complex to target promoters, where PHF2 mediates demethylation of dimethylated 'Lys-9' of histone H3 (H3K9me2), followed by transcription activation of target genes. The PHF2-ARID5B complex acts as a coactivator of HNF4A in liver (By similarity). Required for adipogenesis: regulates triglyceride metabolism in adipocytes by regulating expression of adipogenic genes. Overexpression leads to induction of smooth muscle marker genes, suggesting that it may also act as a regulator of smooth muscle cell differentiation and proliferation. {ECO:0000250, ECO:0000269|PubMed:12215486, ECO:0000269|PubMed:14651970, ECO:0000269|PubMed:17962384, ECO:0000269|PubMed:18070594, ECO:0000269|PubMed:19913508}.

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Molecular Weight: 131.8 kDa

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UniProt: [Q8BM75](#)

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Pathways: [Platelet-derived growth Factor Receptor Signaling](#)

## 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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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months