

Datasheet for ABIN7552243
ARID5B Protein (AA 1-1188) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	ARID5B
Protein Characteristics:	AA 1-1188
Origin:	Human
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 SPCGLHGPIY FYKAFQFHLE GKPRILSLGD FFFVRCRTPKD PICIAELQLL WEERTSRQLL SSSKLYFLPE DTPQGRNSDH GEDEVIAVSE KVIVKLEDLV KVVHSDFSKW RCGFHAGPVK TEALGRNGQK EALLKYRQST LNSGLNFKDV LKEKADLGED EEETNVIVLS YPQYCRYRSM LKRIQDKPSS ILTDQFALAL GGIAVVS RNP QILYCRDTFD HPTLIENESI CDEFAPNLKG RPRKKKPCPQ RRDSFSGVKD SNNNSDGKAV AKVKCEARSA LTKPKNNHNC KKVSNEEKPK VAIGEECRAD EQAFLVALYK YMKERKTPIE RIPYLGFKQI NLWTMFQAAQ KLGGETITA RRQWKHIYDE LGGNPGSTSA ATCTRRHYER LILPYERFIK GEEDKPLPPI KPRKQENSSQ ENENKTKVSG TKRIKHEIPK SKKEKENAPK PQDAAEVSS E QEKEQETLIS QKSIPEPLPA ADMKKKIEGY QEFSAKPLAS RVDPEKDNET DQGSNSEKVA EEAGEKGPPT PLPSAPLAP E KDSALVPGAS KQPLTSPSAL VDSKQESKLC CFTESPESEP QEASFPSFPT TQPPLANQNE TEDDKLPAMA DYIANCTVKV DQLGSDDIHN ALKQTPKVLV VQSFDMFKDK</p>

Product Details

DLTGPMNENH GLNYTPLLYS RGNPGIMSPL AKKKLLSQVS GASLSSSYYPY GSPPPLISKK
KLIARDDLCS SLSQTHHGQS TDHMAVSRPS VIQHVQSFERS KPSEERKTIN DIFKHEKLSR
SDPHRCSFSK HHLNPLADSY VLKQEIQEGK DKLLEKRALP HSHMPSFLAD FYSSPHLHSL
YRHTEHHLHN EQTSKYPSRD MYRESENSSF PSHRHQEKLN VNYLTSLHLQ DKKSAAAEAP
TDDQPTDLSL PKNPHKPTGK VLGLAHSTTG PQESKGISQF QVLGSQSRDC HPKACRVSPM
TMSGPKKYPE SLSRSGKPHH VRLNFRKME GMVHPILHRK MSPQNIGAAR PIKRSLEDLD
LVIAGKKARA VSPLDPSKEV SGKEKASEQE SEGSKAAHGG HSGGGSEGHK LPLSSPIFPG
LYSGSLCNSG LNSRLPAGYS HSLQYLKNQT VLSPLMQPLA FHSLVMQRGI FTSPTNSQQL
YRHAAAATPV GSSYGDLLHN SIYPLAAINP QAAFSSQLS 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.

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.

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

Grade: custom-made

Target Details

Target: ARID5B

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

Background: AT-rich interactive domain-containing protein 5B (ARID domain-containing protein 5B) (MRF1-

Target Details

like protein) (Modulator recognition factor 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-336, 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. 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. Represses the cytomegalovirus enhancer. {ECO:0000269|PubMed:21532585}.

Molecular Weight: 132.4 kDa

UniProt: [Q14865](#)

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

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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months