

Datasheet for ABIN7556133  
**ZNF304 Protein (AA 1-659) (His tag)**



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## Overview

Quantity:	1 mg
Target:	ZNF304
Protein Characteristics:	AA 1-659
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZNF304 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant ZNF304 Protein expressed in mammalian cells.
Sequence:	MAAAVLMDRV QSCVTFEDVF VYFSREEWEL LEEAQRFLYR DVMLENFALV ATLGFWCEAE HEAPSEQSVS VEGVSQVRTA ESGLFQKAHP CEMCDPLLKD ILHLAEHQGS HLTQKLCTRG LCRRRFSFSA NFYQHQQQHN GENCFRGDDG GASFVKSTV HMLGRSFTCR EEGMDLPDSS GLFQHQTTYN RVSPCRRETEC MESFPHSSSL RQHQGDDYDGG MLFSCGDEGK AFLDTFTLLD SQMTHAEVRP FRCLPCGNVF KEKSALINHR KIHSGEISHV CKECGKAFIH LHHLKMHQKF HTGKRHYTCS ECGKAFSRKD TLVQHQRVHT GERSYDCSEC GKAYSRSDDL VQHQRHTGE RPYKCNKCGK AFSRKDTLVQ HQRFHGTGERP YECSECGKFF SQSSHLEHW RIHTGARPYE CIECGKFFSH NSSLIKHRRV HTGARSYVCS KCGKAFGCKD TLVQHQQIHT GARPYECSEC GKAFSRKDTL VQHQQIHTGE RPYECGECGK FFSHSSNLIV HQRHTGAKP YECNECGKCF SHNSSLILHQ RVHTGARPVY CSECGKAYIS SSVLQVHKKV HTGARPYEC ECGKFFSRNS GLILHQRVHT GEKPYVCSEC GKAYSRSDDL VRHQKAHTGE RAHECNSFGG PLAASLKLV <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the</b>

## Product Details

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**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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Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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Grade: custom-made

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## Target Details

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Target: ZNF304

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Alternative Name: ZNF304 ([ZNF304 Products](#))

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Background: Zinc finger protein 304 (KRAB-containing zinc finger protein),FUNCTION: Acts as a transcriptional regulator and plays a role in gene silencing (PubMed:24623306, PubMed:26081979). Probably forms a corepressor complex required for activated KRAS-mediated promoter hypermethylation and transcriptional silencing of several tumor suppressor genes (TSGs) or other tumor-related genes in colorectal cancer (CRC) cells (PubMed:24623306). Also required to maintain a transcriptionally repressive state of genes in undifferentiated embryonic stem cells (ESCs) by inducing trimethylation of 'Lys-27' of histone H3 (H3K27me3) (PubMed:24623306) in a Polycomb group (PcG) complexes-dependent manner. Associates at promoter regions of TSGs and mediates the recruitment of the

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## Target Details

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corepressor complex containing the scaffolding protein TRIM28, methyltransferase DNMT1 and histone methyltransferase SETDB1 and/or the PcG complexes at those sites (PubMed:24623306). Transcription factor involved in the metastatic cascade process by inducing cell migration and proliferation and gain resistance to anoikis of ovarian carcinoma (OC) cells via integrin-mediated signaling pathways (PubMed:26081979). Associates with the ITGB1 promoter and positively regulates beta-1 integrin transcription expression (PubMed:26081979). Promotes angiogenesis (PubMed:26081979). Promotes tumor growth (PubMed:24623306, PubMed:26081979). {ECO:0000269|PubMed:24623306, ECO:0000269|PubMed:26081979}.

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Molecular Weight: 75.0 kDa

UniProt: [Q9HCX3](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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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