

Datasheet for ABIN7553728  
**DZIP1 Protein (AA 1-867) (His tag)**



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## Overview

Quantity:	1 mg
Target:	DZIP1
Protein Characteristics:	AA 1-867
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DZIP1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat DZIP1 Protein expressed in mammalian cells.
Sequence:	<p>MQAEAADWFS SMPFQKHVYY PLASGPEGPD VAVAAAAAGA ASMACAPPSA ASGPLPFFQF RPRLESVDWR RLSAIDVDKV AGAVDVLTLQ ENIMNITFCK LEDEKCPHCQ SGVDPVLLKL IRLAQFTIEY LLHSQEFLTS QLHTLEERLR LSHCDGEQSK KLLTKQAGEI KTLKEECKRR KKMISTQQLM IEAKANYQC HFCDKAFMNQ AFLQSHIQRH HTEENSHFEY QKNAQIEKLR SEIVLKEEL QLTRSELEAA HHASAVRFSK EYEMQKTKEE DFLKLFDRWK EEEKEKLVDE MEKVKEMFMK EFKELTSKNS ALEYQLSEIQ KSNMQIKSNI GTLKDAHEFK EDRSPYPQDF HNVMQLLDSQ ESKWTARVQA IHQEHKKEKG RLLSHIEKLR TSMIDDLNAS NVFYKKRIEE LGQRLQEQNE LIITQRQIQ DFTCNPLNSI SEPKGNPLAW QAFESQPAAP AVPMNAPALH TLETKSSLPM VHEQAFSSHI LEPIEELSEE EKGRENEQKL NNNKMHLRKA LKSNSSLTKG LRTMVEQNLMEKLETGGINA DIRGISSDQL HRVLKSVESERHKQEREIPN FHQIREFLEH QVSKKIEEKA LLSSDQCSVS QMDTLSTGEV PKMIQLPSKN RQLIRQKAVS TDRTSVPKIK</p>

## Product Details

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KNVMEDPFPR KSSTITTPPF SSEEEQEDDD LIRAYASPGP LPVPPPQNKG SFGKNTVKSD  
ADGTEGSEIE DTDDSPKAG VAVKTPTEKV EKMFPHRKNV NKPVGGTNVP EMFIKKEELQ  
ELKCADVEDE DWDISSLEEE ISLGKKGSGKE QKEPPPAKNE PHFAHVLNAW GAFNPKGPKG  
EGLQENESST LKSSLVTVTD WSDTSDV **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

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### Grade:

custom-made

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## Target Details

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### Target:

DZIP1

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### Alternative Name:

DZIP1 ([DZIP1 Products](#))

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### Background:

Cilium assembly protein DZIP1 (DAZ-interacting protein 1/2) (DAZ-interacting zinc finger protein 1),FUNCTION: Molecular adapter that recruits protein complexes required for cilium assembly and function to the cilium basal body (PubMed:19852954, PubMed:23955340, PubMed:27979967, PubMed:32051257). At the exit of mitosis, localizes to the basal body and ciliary base of the forming primary cilium where it recruits and activates RAB8A to direct vesicle-mediated transport of proteins to the cilium (By similarity). Also recruits the BBSome, a complex involved in cilium biogenesis, by bridging it to PCM1 at the centriolar satellites of the

## Target Details

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cilium (PubMed:27979967). It is also required for the recruitment to the cilium basal body of the intraflagellar transport (IFT) machinery as well as the ciliary appendage proteins CEP164 and NINEIN (By similarity). Functions as a regulator of Hedgehog signaling both through its role in cilium assembly but also probably through its ability to retain GLI3 within the cytoplasm (By similarity). It is involved in spermatogenesis through its role in organization of the basal body and assembly of the sperm flagellum (PubMed:32051257). Also indirectly involved in heart development through its function in ciliogenesis (PubMed:31118289).

{ECO:0000250|UniProtKB:Q8BMD2, ECO:0000269|PubMed:19852954, ECO:0000269|PubMed:23955340, ECO:0000269|PubMed:27979967, ECO:0000269|PubMed:31118289, ECO:0000269|PubMed:32051257}.

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Molecular Weight: 98.7 kDa

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UniProt: [Q86YF9](#)

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Pathways: [Hedgehog Signaling, Protein targeting to Nucleus](#)

## 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