

Datasheet for ABIN7552695  
**BBS2 Protein (AA 1-721) (His tag)**



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## Overview

Quantity:	1 mg
Target:	BBS2
Protein Characteristics:	AA 1-721
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BBS2 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant BBS2 Protein expressed in mammalian cells.
Sequence:	<p>MLLPVFTLKL RHKISPRMVA IGRYDGTHPC LAAATQTGKV FIHNPHTRNQ HVSASRVFQS PLESDVSLLS INQAVSCLTA GVLNPELGYD ALLVGTQTNL LAYDVYNNSD LFYREVADGA NAIVLGLTGD ISSPLAIIIGG NCALQGFNHE GSDLFWVTVG DNVNSLALCD FDGDGKKELL VGSEDFDIRV FKEDEIVAEM TETEIVTSLC PMYGSRFGYA LSNGTVG VYD KTSRYWRIKS KNHAMSIHAF DLNSDGVNEL ITGWSNGKVD ARSDRTGEVI FKDNFSSAIA GVVEGDYRMD GHIQLICCSV DGEIRGYLPG TAEMRGNLMD TSAEQDLIRE LSQKKQNLLL ELRNYEENAK AELASPLNEA DGHARGIIPAN TRLHTTLSVS LGNETQTAHT ELRISTSNDT IIRAVLIFAE GIFTGESHVV HPSIHNLSST ICIPVPPKD VPVDLHLKAF VGYRSSTQFH VFESTRQLPR FSMYALTS LD PASEPISYVN FTIAERAQRV VVWLGQNFL PEDTHIQNAP FQVCFTSLRN GGHLHIKIKL SGEITINTDD IDLAGDIIQS MASFFAIEDL QVEADFPVYF EELRKVLVKV DEYHSVHQKL SADMADHSNL IRSLLVGAED ARLMRDMKTM KSRYMELYDL NRDLLNGYKI RCNNHTELLG NLKAVNQAIQ RAGRLRVGKP KNQVITACRD AIRSNNINTL FKIMRVGTAS S</p>

**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.**

**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.

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

**Grade:** custom-made

## Target Details

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**Target:** BBS2

**Alternative Name:** BBS2 ([BBS2 Products](#))

**Background:** Bardet-Biedl syndrome 2 protein,FUNCTION: The BBSome complex is thought to function as a coat complex required for sorting of specific membrane proteins to the primary cilia. The BBSome complex is required for ciliogenesis but is dispensable for centriolar satellite function. This ciliogenic function is mediated in part by the Rab8 GDP/GTP exchange factor, which localizes to the basal body and contacts the BBSome. Rab8(GTP) enters the primary cilium and promotes extension of the ciliary membrane. Firstly the BBSome associates with the ciliary membrane and binds to RAB31P/Rabin8, the guanosyl exchange factor (GEF) for Rab8 and then the Rab8-GTP localizes to the cilium and promotes docking and fusion of carrier vesicles to the

## Target Details

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base of the ciliary membrane. The BBSome complex, together with the LTZL1, controls SMO ciliary trafficking and contributes to the sonic hedgehog (SHH) pathway regulation. Required for proper BBSome complex assembly and its ciliary localization.

{ECO:0000269|PubMed:17574030, ECO:0000269|PubMed:22072986}.

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Molecular Weight: 79.8 kDa

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UniProt: [Q9BXC9](#)

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Pathways: [Hedgehog Signaling](#)

## 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.

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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