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# BBS9 Protein (AA 1-887) (Strep Tag)



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#### Overview

Quantity:	1 mg
Target:	BBS9
Protein Characteristics:	AA 1-887
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BBS9 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### **Product Details**

#### Sequence:

MSLFKARDWW STILGDKEEF DQGCLCLANV DNSGNGQDKI IVGSFMGYLR IFSPHPAKTG
DGAQAEDLLL EVDLRDPVLQ VEVGKFVSGT EMLHLAVLHS RKLCVYSVSG TLGNVEHGNQ
CQMKLMYEHN LQRTACNMTY GSFGGVKGRD LICIQSMDGM LMVFEQESYA FGRFLPGFLL
PGPLAYSSRT DSFLTVSSCQ QVESYKYQVL AFATDADKRQ ETEQQKLGSG KRLVVDWTLN
IGEQALDICI VSFNQSASSV FVLGERNFFC LKDNGQIRFM KKLDWSPSCF LPYCSVSEGT
INTLIGNHNN MLHIYQDVTL KWATQLPHIP VAVRVGCLHD LKGVIVTLSD DGHLQCSYLG
TDPSLFQAPN VQSRELNYDE LDVEMKELQK IIKDVNKSQG VWPMTEREDD LNVSVVVSPN
FDSVSQATDV EVGTDLVPSV TVKVTLQNRV ILQKAKLSVY VQPPLELTCD QFTFEFMTPD
LTRTVSFSVY LKRSYTPSEL EGNAVVSYSR PTDRNPDGIP RVIQCKFRLP LKLICLPGQP
SKTASHKITI DTNKSPVSLL SLFPGFASQS DDDQVNVMGF HFLGGARITV LASKTSQRYR
IQSEQFEDLW LITNELILRL QEYFEKQGVK DFACSFSGSI PLQEYFELID HHFELRINGE
KLEELLSERA VQFRAIQRRL LARFKDKTPA PLQHLDTLLD GTYKQVIALA DAVEENQGNL

FQSFTRLKSA THLVILLIAL WQKLSADQVA ILEAAFLPLQ EDTQELGWEE TVDAAISHLL KTCLSKSSKE QALNLNSQLN IPKDTSQLKK HITLLCDRLS KGGRLCLSTD AAAPQTMVMP GGCTTIPESD LEERSVEQDS TELFTNHRHL TAETPRPEVS PLQGVSE

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 will ensure that you receive a correctly folded protein.

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.

#### Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
  protein production are removed, leaving only the protein production machinery and the
  mitochondria to drive the reaction. During our lysate completion steps, the additional
  components needed for protein production (amino acids, cofactors, etc.) are added to
  produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

#### Concentration:

- · The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

## **Product Details**

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System			
. a.moudon.	(ALICE®):			
	In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.			
	<ol><li>Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li></ol>			
Purity:	80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.			
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)			
Target Details				
Target:	BBS9			
Alternative Name:	BBS9 (BBS9 Products)			
Background:	Protein PTHB1 (Bardet-Biedl syndrome 9 protein) (Parathyroid hormone-responsive B1 gene			
	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			
	RAB3IP/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 base of the ciliary			
	membrane. Required for proper BBSome complex assembly and its ciliary localization.			
	{ECO:0000269 PubMed:17574030, ECO:0000269 PubMed:22072986}.			
Molecular Weight:	99.3 kDa			
UniProt:	Q3SYG4			
Pathways:	Hedgehog 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.			

## **Application Details**

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Restrictions:

For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)