

Datasheet for ABIN3094828

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



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Overview

Quantity:	250 µg
Target:	BBS9
Protein Characteristics:	AA 1-887
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BBS9 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	ALiCE®
Sequence:	MSLFKARDWW STILGDKEEF DQGCLCLANV DNSGNGQDKI IVGSFMGYLR IFSPHPAKTG DGAQAEDLLL EVDLRDPVLQ VEVGKFVSGT EMLHLAVLHS RKLCVYSVSG TLGNVEHGNQ CQMKLMEYHN LQRTACNMTY GSFGGVKGRD LICIQSM DGM LMVFEQESYA FGRFLPGFLL PGPLAYSSRT DSFLT VSSCQ QVESYKYQVL AFATDADKRQ ETEQQKLGSG KRLVVDWTLN IGEQALDICI VSFNQ SASSV FVLGERNFFC LKDNGQIRFM KKLDWSPSCF LPYCSVSEGT INTLIGNHNN MLHIYQDVT L KWATQLPHIP VAVRVGCLHD LKGVIVT LSD DGHLCQSYLG TDPSLFQAPN VQSRELNYDE LDVEMKELQK IIKDVNKSQG VWPMTEREDD LNVSVVWSPN FDSVSQATDV EVGTDLVPSV TVKVT LQNRV ILQKAKLSVY VQPPLELTCD QFTFEFMTPD LTRTVSFSVY LKRSYTPSEL EGNVVSYSR PTDRNPDGIP RVIQCKFRLP LKLICLPGQP SKTASHKITI DTNKSPVSL L SLFPGFASQS DDDQVNVMGF HFLGGARITV LASKTSQRYR IQSEQFEDLW LITNELILRL QEYFEKQGVK DFACSFSGSI PLQEYFELID HHFELRINGE

KLEELLSERA VQFRAIQRRLLARFKDKTPA PLQHLDTLDD GTYKQVIALA DAVEENQGNL
FQSFTRLKSA THLVILLIAL WQKLSADQVA ILEAAFLPLQ EDTQELGWEE TVDAAISHLL
KTCLSKSSKE QALNLNSQLN IPKDTSQLKK HITLLCDRLS KGGRLCLSTD AAPQTMVMP
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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 post-translational 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 against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
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Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
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Grade:	custom-made
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Target Details

Target:	BBS9
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Alternative Name:	BBS9 (BBS9 Products)
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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}.
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Molecular Weight:	99.3 kDa
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UniProt:	Q3SYG4
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Pathways:	Hedgehog Signaling
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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.
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Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for
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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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months