

Datasheet for ABIN3093869

## MPHOSPH9 Protein (AA 1-1183) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	MPHOSPH9
Protein Characteristics:	AA 1-1183
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MPHOSPH9 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p> MEEFDLVKTL HKTSSSVGSD ENSLHSLGLN LNTDRSSPHL STNGVSSFSG KTRPSVIQGT  VEVLTSLMQE LQNSGKTDSE LWKNCETRWL QLFNLVEKQC QEQIVAAQQEQ FHNQIQHIQE  EIKNLVKLQT SSASLASCEG NSSNKQVSSE SQMGFFSLSS ERNESVIHYP ESTEPEIQQE  MSTSQPDCNV DSCSVSSGYG TFCISELNLY KSKDPKEFME HIDVPKGQYV APAVPAESLV  DGVKNENFYI QTPEECHVSL KEDVSISPGE FEHNFLGENK VSEVYSGKTN SNAITSWAQK  LKQNQPKRAH VEDGGSRSKQ GNEQSKKTPI EKSDFAAATH PRAFYLSKPD ETPNAWMSDS  GTGLTYWKLE EKDMHHSLPE TLEKTFISLS STDVSPNQSN TSNEMKLPSL KDIYYKKQRE  NKQLPERNLT SASNPNHPPPE VLTLDPTLHM KPKQQISGIQ PHGLPNALDD RISFSPDSVL  EPSMSSPSDI DSFSQASNVT SQLPGFPKYP SHTKASPVDS WKNQTFQNES RTSSTFPSVY  TITSNDISVN TVDEENTVMV ASASVSQSQL PGTANSVPEC ISLTSLEDPV ILSKIRQNLK  EKHARHIADL RAYYESEINS LKQKLEAKEI SGVEDWKITN QILVDRCGQL DSALHEATSR </p>

VRTLENKNNL LEIEVNDLRE RFSAAASSASK ILQERIEEMR TSSKEKDNTI IRLKSRLQDL  
EEAFENAYKL SDDKEAQLKQ ENKMFQDLLG EYESLGKEHR RVKDALNTTE NKLLDAYTQI  
SDLKRMISKL EAQVKQVEHE NMLSLRHNSR IHVRPSRANT LATSDVSRRK WLIPGAEYSI  
FTGQPLDTQD SNVDNQLEET CSLGHRSPLE KDSSPGSSST SLLIKKQRET SDTPIMRALK  
ELDEGKIFKN WGTQTEKEDT SNINPRQTET SVNASRSPEK CAQQRQKRLN SASQRSSSLP  
PSNRKSSTPT KREIMLTPVT VAYSPKRSPK ENLSPGFSHL LSKNESSPIR FDILLDDLDT  
VPVSTLQRTN PRKQLQFLPL DDSEEKTYSE KATDNHVNHS SCPEVPNGV KKVSVRTAWE  
KNKSVSYEQC KPVSVTPQGN DFEYTAKIRT LAETERFFDE LTKEKDQIEA ALSRMPSPPG  
RITLQTRLNQ EALDRLERI NRELGSVRMT LKKFHVLRYS ANL

**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.**

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### 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!

## Product Details

### 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.

**Purification:** One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

**Purity:** > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

**Grade:** custom-made

## Target Details

**Target:** MPHOSPH9

**Alternative Name:** MPHOSPH9 ([MPHOSPH9 Products](#))

**Background:** M-phase phosphoprotein 9,FUNCTION: Negatively regulates cilia formation by recruiting the CP110-CEP97 complex (a negative regulator of ciliogenesis) at the distal end of the mother centriole in ciliary cells (PubMed:30375385). At the beginning of cilia formation, MPHOSPH9 undergoes TTBK2-mediated phosphorylation and degradation via the ubiquitin-proteasome system and removes itself and the CP110-CEP97 complex from the distal end of the mother centriole, which subsequently promotes cilia formation (PubMed:30375385). {ECO:0000269|PubMed:30375385}.

**Molecular Weight:** 133.0 kDa

**UniProt:** [Q99550](#)

## 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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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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months