

Datasheet for ABIN3077367

## SPATA7 Protein (AA 1-599) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	SPATA7
Protein Characteristics:	AA 1-599
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPATA7 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MDGSRRVRAT SVLPYRGPPC LFKGHLSTKS NAFCTDSSSL RLSTLQLVKN HMAVHYNKIL            SAKAAVDCSV PVSVSTSIKY ADQQRREKLK KELAQCEKEF KLTKTAMRAN YKNNKSLFN            TLQKPSGEPQ IEDDMLKEEM NGFSSFARSL VPSSERLHLS LHKSSKVITN GPEKNSSSSP            SSVDYAASGP RKLSSGALYG RRPRSTFPNS HRFQLVSKA PSGDLLDKHS ELFSNKQLPF            TPRTLKTEAK SFLSQYRYYT PAKRKKDFTD QRIEETQTE LSKSELGTA ETKNMTDSEM            NIKQASNCVT YDAKEKIAPL PLEGHDSTWD EIKDDALQHS SPRAMCQYSL KPPSTRKIYS            DEEELLYLSF IEDVTDEILK LGLFSNRFLE RLFERHIKQN KHLEEEKMRH LLHVLKVDLG            CTSEENSVKQ NDVDMLNVFD FEKAGNSEPN ELKNESEVTI QQERQQYQKA LDMLLSAPKD            ENEIFPSPT EFMPIYKSKH SEGVIIQQVN DETNLETSTL DENHPSISDS LTDRETSVNV            IEGDSDPEKV EISNGLGCLN TSPSQSVQFS SVKGDNNHDM ELSTLKIMEM SIEDCPLDV</p>

**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!

#### 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.

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### 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

## Target Details

Target:	SPATA7
Alternative Name:	SPATA7 ( <a href="#">SPATA7 Products</a> )
Background:	Spermatogenesis-associated protein 7 (HSD-3.1) (Spermatogenesis-associated protein HSD3),FUNCTION: Involved in the maintenance of both rod and cone photoreceptor cells (By similarity). It is required for recruitment and proper localization of RPGRIP1 to the photoreceptor connecting cilium (CC), as well as photoreceptor-specific localization of proximal CC proteins at the distal CC (By similarity). Maintenance of protein localization at the photoreceptor-specific distal CC is essential for normal microtubule stability and to prevent photoreceptor degeneration (By similarity). {ECO:0000250 UniProtKB:Q80VP2}.
Molecular Weight:	67.7 kDa
UniProt:	<a href="#">Q9P0W8</a>

## 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.
Comment:	<p>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.</p> <p>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!</p>
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

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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
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