

Datasheet for ABIN3115479

SPATA31A1 Protein (AA 1-1347) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	SPATA31A1
Protein Characteristics:	AA 1-1347
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPATA31A1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MENLPFPLKL LSASSLNAPS STPWVLDIFL TLVFALGFFF LLLPYLSYFR CDDPPSPSPG</p> <p>KRKCPVGRRR RPRGRMKNHS LRAGRECPRG LQETSDLLSQ LQSLGPHLD KGDFGQLSGP</p> <p>DPPGEVGERA PDGASQSSHE PMEDAAPILS PLASPDPAK HPQDLASTPS PGPMTTSVSS</p> <p>LSASQPPEPS LPLEHPSPEP PALFPHPPHT PDPLACSPPP PKGFTAPPLR DSTLITPSHC</p> <p>DSVALPLGTV PQSLSPHEDL VASVPAISGL GGSNSHVSAS SRWQETARTS CAFNSSVQQD</p> <p>HLSRHPPETY QMEAGSLFLL SSDGQNAVGI QVTETAKVNI WEEKENVGFS TDRMTPEKHL</p> <p>NSLRNLAKSL DAEQDTTNPK PFWNMGENSK QLPGPQKLS PRLWQESFWK NYSQLFWGLP</p> <p>SLHSESLVAN AWTDRSYTL QSPFLFNEM SNVCPQRET TMSPLLFAQ PPSHLGPECQ</p> <p>PFISSTPQFR PTPMAQAEQ AHLQSSFPVL SPAFPSLIKN TGVPASQN KVQALSLPET</p> <p>QHPEWPLLRR QLEGRALPS RVQKSQDVFS VSTPNLPQES LTSILPENFP VSPELRRQLE</p> <p>QHIKKWIIQH WGNLGRIQES LDLMQLRDES PGTSQAKGKP SPWQSSMSTG ESSKEAQKVK</p>

FQLERDPCPH LGQILGETPQ NLSRDMKSFP RKVLGVTSEE SERNLRKPLR SDGSDLLRC
TERTHIENIL KAHMGRNLGQ TNEGLIPVRV RRSWLAVNQA LPVSNTHVKT SNLAAPKSGK
ACVNTAQVLS FLEPCTQQGL GAHIVRFWAK HRWGLPLRVL KPIQCFKLEK VSSLSLTQLA
GPSSATCESG AGSEVEVDMF LRKPPMASLR KQVLTKASDH MPESLLASSP AWKQFQRAPR
GIPSWNDHGP LKPPPAGQEG RWPSKPLTYS LTGSTQQSRS LGAQSSKAGE TREAVPQCRV
PLETCMLANL QATSEDMHGF EAPGTSKSSL HPRVSVSQDP RKLCLMEEVV NEFEPGMATK
SETQPQVCAA VLLPDGQAS VVPHASENLV SQVPQGHLS MPAGNMRASQ ELHDLMAARR
SKLVHEEPRN PNCQGCKNQ RPMFPPIHKS EKSARKPNLEK HEERLEGLRT PQLTPVRKTE
DTHQDEGVQL LPSKKQPPSV SHFGGNIKQF FQWIFSKKKS KPAPVTAESQ KTVKNRSCVY
SSSAEAQGLM TAVGQMLDEK MSLCHARHAS KVNQHKQKFQ APVCGFPCNH RHLFYSEHGR
ILSYAASSQQ ATLKSQGCPN RDRQIRNQQP LKSVRCNNEQ WGLRHPQILH PKKAVSPVSP
LQHWPKTSGA SSHHHHCPRH CLLWEGI

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

Product Details

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.

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:	SPATA31A1
Alternative Name:	SPATA31A1 (SPATA31A1 Products)
Background:	Spermatogenesis-associated protein 31A1 (Protein FAM75A1),FUNCTION: May play a role in spermatogenesis. {ECO:0000250}.
Molecular Weight:	148.6 kDa
UniProt:	Q5TZJ5

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</p>

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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