

Datasheet for ABIN3095621

## SPOCD1 Protein (AA 1-1216) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	SPOCD1
Protein Characteristics:	AA 1-1216
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPOCD1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MSQAGDVEGP STGDPVLSPQ HNCELLQNME GASSMPGLSP DGPGASSGPG VRAGSRRKIP</p> <p>RKEALRGGSS RAAGAAEVRP GVLELLAVVQ SRGSMLAPGL HMQLPVPTQ GRALTSKRLQ</p> <p>VSLCDILDDS CPRKLCRSA GLPERALACR ERLAGVEEVS CLRPREARDG GMSSPGCDRR</p> <p>SPTLSKEEPP GRPLTSSDP VPVRVRKKWR RQGAHSECEE GAGDFLWLDQ SPRGDNLLSV</p> <p>GDPPQVADLE SLGGPCRPPS PKDTGSGPGE PGGSGAGCAS GTEKFGYLPV TGDGPQPGSP</p> <p>CGPVGFVPVS GGESLSSAAQ APPQSAALCL GASAQASAEQ QEAVCVVRTG SDEGQAPAQD</p> <p>QEELEAKAQP ASRGRLEQGL AAPADTCASS REPLGGLSSS LDTEASRACS GPFMEQRRSK</p> <p>GTKNLKKGVP PCAQDRGTDR SSDNSHQDRP EEPSPGGCPR LEEVKIPHGK KLVCYLGSGP</p> <p>VIQLLGAISH GQAGGQLPPK LEVLEDLMEV SSPSPAQLR RKKRPMVQGP AGCQVFQPS</p> <p>SGGTAGDPGG LSDPFYPPRS GSLALGDPSS DPACSQSGPM EAEEDSLPEQ PEDSAQLQQE</p> <p>KPSLYIGVRG TVVRSMQEV L WTRLRELDP VLSEEVVEGI AAGIEAALWD LTQGTNGRYK</p>

TKYRSLLFNL RDPRNLDLFL KVVHGDVTPY DLVRMSSMQL APQELARWRD QEEKRGLNII  
EQQQKEPCRL PASKMTHKGE VEIQRDMDQT LTLEDLVGPQ MFMD CSPQAL PIASEDTTGQ  
HDDHFLDPNC HICKDWEPSN ELLGSFEAAK SCGDNIFQKA LSQTPMPAPE MPKTRELSPT  
EPQDRVPPSG LHVPAAPTKA LPCLPPWEGV LDMFSIKRFR ARAQLVSGHS CRLVQALPTV  
IRSAGCIPSN IVWDLLASIC PAKAKDVCVV RLCPHGARDT QNCRLLYSYL NDRQRHGLAS  
VEHMGMVLLP LPAFQPLPTR LRPLGGPGLW ALPVSPLLSP GLEVTHSSLL LAVLLPKEGL  
PDTAGSSPWL GKVQKMVSFN SKVEKRYYPQ DRRPNVPLK GTPPPGGAWQ QSQGRGSIAP  
RGISAWQRPP RGRGRLWPEP ENWQHPGRGQ WPPEPGLRQS QHPYSVAPAG HGFGRGQHFH  
RDSCPHQALL RHLESLATMS HQLQALLCPQ TKSSIPRLQ RLSSALAAPE PPGPARDSSL  
GPTDEAGSEC PFPRKA

**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

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### 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®).
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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

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Target:	SPOCD1
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Alternative Name:	SPOCD1 ( <a href="#">SPOCD1 Products</a> )
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Background:	SPOC domain-containing protein 1,FUNCTION: Essential executor of PIWIL4-piRNA pathway directed transposon DNA methylation and silencing in the male embryonic germ cells (By similarity). Associates with the de novo DNA methylation machinery and repressive chromatin remodeling complexes (By similarity). Tethering of PIWIL4 to a nascent transposable element transcript recruits repressive chromatin remodeling activities and the de novo methylation apparatus through SPOCD1 (By similarity). Not required for piRNA biosynthesis (By similarity). {ECO:0000250 UniProtKB:B1ASB6}.
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Molecular Weight:	130.0 kDa
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UniProt:	<a href="#">Q6ZMY3</a>
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## Application Details

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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.
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## Application Details

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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!

Restrictions: For Research Use only

## Handling

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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