

Datasheet for ABIN3095778

## Symplekin Protein (SYMPK) (AA 1-1274) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	Symplekin (SYMPK)
Protein Characteristics:	AA 1-1274
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Symplekin protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Brand:	AliCE®
Sequence:	<p>MASGSGDSVT RRSVASQFFT QEEGPGIDGM TTSERVVDLL NQAALITNDS KITVLKQVQE</p> <p>LIINKDPTLL DNFLDEIIAF QADKSIEVRK FVIGFIEEAC KRDIELLLKL IANLNMILLRD ENVNVVKKAI</p> <p>LTMTQLYKVA LQWMVKSRVI SELQEACWDM VSAMAGDIIL LLSDNDNGIR THAIKFVEGL</p> <p>IVTLSPRMAD SEIPRRQEHD ISLDRIPRDH PYIQYNVLWE EGKAALEQLL KFMVHPAISS</p> <p>INLTALGSL ANIARQRPMF MSEVIQAYET LHANLPPTLA KSQVSSVRKN LKLHLLSVLK</p> <p>HPASLEFQAQ ITLLVDLGT PQAEIARNMP SSKDTRKRPR DDSDSTLKKM KLEPNLGEDD</p> <p>EDKDLEPGPS GTSKASAQIS GQSDTDITAE FLQPLLPDN VANLVISMV YLPEAMPASF</p> <p>QAIYTPVESA GTEAQIKHLA RLMATQMTAA GLGPGVEQTK QCKEKPKEEK VVKTESVLIK</p> <p>RRLSAQGQAI SVVGSLSMS PLEEEAPQAK RRPEIIPVT QPRLAGAGGR KKIFRLSDVL</p> <p>KPLTDAQVEA MKLGAVKRIL RAEKAVACSG AAQVRIKILA SLVTQFNSGL KAEVLSFILE</p> <p>DVRARLDLAF AWLYQEYNAY LAAGASGSLD KYEDCLIRLL SGLQEKPDQK DGIFTKVVLE</p>

APLITESALE VVRKYCEDES RTYLGMSTLR DLIFKRPSRQ FQYLHVLLDL SSHEKDKVRS  
QALLFIKRMV EKEQLREYVE KFALNYLQLL VHPNPPSVLF GADKDEVAAPWTEETVKQC  
LYLYLALLPQ NHKLIHELAA VYTEAIADIK RTVLRVIEQP IRGMGMNSPE LLLLVENCPK  
GAETLVTRCL HSLTDKVPPS PELVKRVRDL YHKRLPDVRF LIPVLNGLEK KEVIQALPKL  
IKLNPIVVKE VFNRLGTQH GEGNSALSPL NPGELLIALH NIDSVKCDMK SIIKATNLCF  
AERNVYTSEV LAVVMQQLME QSPLPMLLMR TVIQSLTMYP RLGGFVMNIL SRLIMKQVWK  
YPKVWEGFIK CCQRTKPQSF QVILQLPPQQ LGAVFDKCPE LREPLLAHVR SFTPHQQAHI  
PNSIMTILEA SGKQEPEAKE APAGPLEEDD LEPLTLAPAP APRPPQDLIG LRLAQEKALK  
RQLEEEQKLK PGGVGAPSSS SPSPSPSARP GPPPSEEAMD FREEGPECET PGIFISMDDD  
SGLTEAALLD SSLEGPLPKE TAAGGLTLKE ERSPTLAPV GEDAMKTPSP AAEDAREPEA KGNS

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

## Target Details

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Target:	Symplekin (SYMPK)
Alternative Name:	SYMPK ( <a href="#">SYMPK Products</a> )
Background:	Symplekin,FUNCTION: Scaffold protein that functions as a component of a multimolecular complex involved in histone mRNA 3'-end processing. Specific component of the tight junction (TJ) plaque, but might not be an exclusively junctional component. May have a house-keeping rule. Is involved in pre-mRNA polyadenylation. Enhances SSU72 phosphatase activity. {ECO:0000269 PubMed:16230528, ECO:0000269 PubMed:20861839}.
Molecular Weight:	141.1 kDa
UniProt:	<a href="#">Q92797</a>

## 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.
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</p>

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