

Datasheet for ABIN3111055

## USP19 Protein (AA 1-1318) (Strep Tag)



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#### Overview

Quantity:	1 mg
Target:	USP19
Protein Characteristics:	AA 1-1318
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP19 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence: MSGGASATGP RRGPPGLEDT TSKKKQKDRA NQESKGDGPR KETGSRYVAQ AGLEPLASGD  
 PSASASHAAG ITGSRHRTL FFPSSSGSAS TPQEEQKEG ACEDPHDLA TPTPELLLDW  
 RQSAEEVIVK LRVGVGPLQL EDVDAAFDT DCVVRFAGGQ QWGGVFYAEI KSSCAKVQTR  
 KGSLHLTL P KVPMLTWPS LLVEADEQLC IPPLNSQTCL LGSEENLAPL AGEKAVPPGN  
 DPVSPAMVRS RNP GKDDCAK EEMAVAADAA TLVDEPESMV NLA FVKND SY E KGPDSVVVH  
 VYVKEICRDT SRVLFREQDF TLIFQTRDGN FLRLHPGCGP HTTFRWQVKL RNLIEPEQCT  
 FCFTASRID I CLRKRQSQRW GGLEAPAARV GGAKVAVPTG PTPLDSTPPG GAPHLTGQE  
 EARAVEKDKS KARSEDTGLD SVATRTPMEH VTPKPETHLA SPKPTCMVPP MPHSPVSGDS  
 VEEEEEEKK VCLPGFTGLV NLGNTCFMNS VIQSLN TRE LRDFHDSRF EAEINYNPL  
 GTGGRLAIGF AVLLRALWKG THHAFQPSKL KAIVASKASQ FTGYAQHDAQ EFMAFLLDGL  
 HEDLNRIQNK PYTETVSDG RPDEVVAEEA WQRHKMRNDS FIVDLFQGQY KSKLVCPVCA  
 KVSITFD PFL YLPVPLPQKQ KVLPVFYFAR EPHSKPIKFL VSVSKENSTA SEVLDSLSQS

VHVKPENLRL AEVIKNRFHR VFLPSHSLDT VSPSDTLLCF ELLSSELAKE RWWVLEVQQR  
PQVPSVPISK CAACQRKQQS EDEKLRCTR CYRVGYCNQL CQKTHWPDHK GLCRPENIGY  
PFLVSVPASR LTYARLAQLL EGYARYSVSV FQPPFQPGRM ALESQSPGCT TLLSTGSLEA  
GDSERDPIQP PELQLVTPMA EGD TGLPRVW AAPDRGPVPS TSGISSEMLA SGPIEVGSLP  
AGERVSRPEA AVPGYQHPSE AMNAHTPQFF IYKIDSSNRE QRLEDKGDTP LELGDDCSLA  
LVWRNNERLQ EFVLVASKEL ECAEDPGSAG EAARAGHFTL DQCLNLFTRP EVLAPEEAWY  
CPQCKQHREA SKQLLLWRLP NVLIVQLKRF SFRSFIWRDK INDLVEFPVR NLDLSKFCIG  
QKEEQLPSYD LYAVINHYGG MIGGHYTACA RLPNDRSSQR SDVGWRLFDD STVTTVDESQ  
VVTRYAYVLF YRRRNSPVER PPRAGHSEHH PDLGPAAEAA ASQASRIWQE LEAEEEPVPE  
GSGPLGPWGP QDWVGPLPRG PTPDEGCLR YFVLGTVAAL VALVLNVFYP LVSQSRWR

**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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 -

## Product Details

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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 in several dilutions and is 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:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALICE®): <ol style="list-style-type: none"><li>1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.</li><li>2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li></ol>
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

## Target Details

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Target:	USP19
Alternative Name:	USP19 ( <a href="#">USP19 Products</a> )
Background:	Ubiquitin carboxyl-terminal hydrolase 19 (EC 3.4.19.12) (Deubiquitinating enzyme 19) (Ubiquitin thioesterase 19) (Ubiquitin-specific-processing protease 19) (Zinc finger MYND domain-containing protein 9),FUNCTION: Deubiquitinating enzyme that regulates the degradation of various proteins. Deubiquitinates and prevents proteasomal degradation of RNF123 which in turn stimulates CDKN1B ubiquitin-dependent degradation thereby playing a role in cell proliferation. Involved in decreased protein synthesis in atrophying skeletal muscle. Modulates transcription of major myofibrillar proteins. Also involved in turnover of endoplasmic-reticulum-associated degradation (ERAD) substrates. Regulates the stability of BIRC2/c-IAP1 and BIRC3/c-IAP2 by preventing their ubiquitination. Required for cells to mount an appropriate response to hypoxia and rescues HIF1A from degradation in a non-catalytic manner. Plays an important role in 17 beta-estradiol (E2)-inhibited myogenesis. Decreases the levels of

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## Target Details

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ubiquitinated proteins during skeletal muscle formation and acts to repress myogenesis.  
Exhibits a preference towards 'Lys-63'-linked ubiquitin chains.  
{ECO:0000269|PubMed:19465887, ECO:0000269|PubMed:21849505,  
ECO:0000269|PubMed:22128162, ECO:0000269|PubMed:22689415}.

Molecular Weight: 145.7 kDa

UniProt: [O94966](#)

## 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: 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!

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process