

Datasheet for ABIN3096194

USP25 Protein (AA 1-1055) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	USP25
Protein Characteristics:	AA 1-1055
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP25 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MTVEQNVLQQ SAAQKHQQTf LNQLREITGI NDTQILQQAL KDSNGNLELA VAFLTAKNAK TPQQEETYY QTALPGNDRY ISVGSQADTN VIDLTGDDKD DLQRAIALSL AESNRAFRET GITDEEQAIS RVLEASIAEN KACLKRTPT E VWRDSRNPYD RKRQDKAPVG LKNVGNTCWF SAVIQSLFNL LEFRRLVLNY KPPSNAQDLP RNQKEHRNLP FMRELRYLFA LLVGTKRKYY DPSRAVEILK DAFKSNDSSQ QDVSEFTHKL LDWLEDAFQM KAEETDEEK PKNPMVELFY GRFLAVGVLE GKKFENTEMF GQYPLQVNGF KDLHECLEAA MIEGEIESLH SENSGBKSGQE HWFTELPPVL TFELSRFEFN QALGRPEKIH NKLEFPQVLY LDRYMHRNRE ITRIKREEIK RLKDYLTVLQ QRLERYLSYG SGPKRFPLVD VLQYALEFAS SKPVCTSPVD DIDASSPPSG SIPSQTL PST TEQQGALSSE LPSTSPSSVA AISSRSVIHK PFTQSRIPPD LPMHPAPRHI TEEELSVLES CLHRWRTEIE NDTRDLQESI SRIHRTIELM YSDKSMIQVP YRLHAVLVHE GQANAGHYWA YIFDHRESRW MKYNDIAVTK SSWEELVRDS FGGYRNASAY CLMYINDKAQ FLIQEEFNKE TGQPLVG IET LPPDLRDFVE EDNQRF EKEL EEWD AQLAQK ALQEKLLASQ
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KLRESETSVT TAQAAGDPEY LEQPSRSDFS KHLKEETIQI ITKASHEHD KSPETVLQSA
IKLEYARLVK LAQEDTPPET DYRLHHVVVY FIQNQAPKKI IEKTLLEQFG DRNLSFDERC
HNIMKVAQAK LEMIKPEEVN LEEYEEWHQD YRKFRETTMY LIIGLENFQR ESYIDSLFL
ICAYQNNKEL LSKGLYRGHD EELISHYRRE CLLKLNEQAA ELFESGEDRE VNNGLIIMNE
FIVPFLPLL VDEMEEKDIL AVEDMRNRWC SYLGQEMEPH LQEKLTDFLP KLLDCSMEIK
SFHEPPKLPS YSTHELCERF ARIMLSLSRT PADGR

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 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 - 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.

Product Details

- 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.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 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. 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.
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

Target:	USP25
Alternative Name:	USP25 (USP25 Products)
Background:	Ubiquitin carboxyl-terminal hydrolase 25 (EC 3.4.19.12) (Deubiquitinating enzyme 25) (USP on chromosome 21) (Ubiquitin thioesterase 25) (Ubiquitin-specific-processing protease 25),FUNCTION: Deubiquitinating enzyme that hydrolyzes ubiquitin moieties conjugated to substrates and thus, functions in various biological processes including inflammation, immune response (PubMed:29518389, PubMed:37683630). Modulates the Wnt/beta-catenin pathway by deubiquitinating and stabilizing tankyrases TNKS1 and TNKS2 (PubMed:28619731, PubMed:30926243). Regulates KEAP1-NRF2 axis in the defense against oxidative assaults by deubiquitinating KEAP1 and protecting it from degradation leading to degradation of the NRF2 transcription factor that is responsible for mounting an anti-oxidation gene expression program (PubMed:37339955). Positively regulates RNA virus-induced innate signaling by interacting with and deubiquitinating ERLIN1 and ERLIN2 (PubMed:37683630). In turn, restricts virus production by regulating cholesterol biosynthetic flux (PubMed:37683630). Acts as a negative regulator of interleukin-17-mediated signaling and inflammation through the removal of 'Lys-63'-linked ubiquitination of TRAF5 and TRAF6 (PubMed:23042150). Prevents the ubiquitination and degradation of TRAF3 to reduce the phosphorylation levels of JNK and P38, the secretion of IL-1B and to induce endotoxin tolerance (PubMed:30579117). {ECO:0000269 PubMed:23042150,

Target Details

ECO:0000269|PubMed:28619731, ECO:0000269|PubMed:29518389,
ECO:0000269|PubMed:30579117, ECO:0000269|PubMed:30926243,
ECO:0000269|PubMed:37339955, ECO:0000269|PubMed:37683630}., FUNCTION: The muscle-specific isoform (USP25m) may have a role in the regulation of muscular differentiation and function.

Molecular Weight: 122.2 kDa

UniProt: [Q9UHP3](#)

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: 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.

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Restrictions: For Research Use only

Handling

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