Datasheet for ABIN3096238

USP8 Protein (AA 1-1118) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	USP8
Protein Characteristics:	AA 1-1118
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP8 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MPAVASVPKE LYLSSSLKDL NKKTEVKPEK ISTKSYVHSA LKIFKTAEEC RLDRDEERAY VLYMKYVTVY NLIKKRPDFK QQQDYFHSIL GPGNIKKAVE EAERLSESLK LRYEEAEVRK KLEEKDRQEE AQRLQQKRQE TGREDGGTLA KGSLENVLDS KDKTQKSNGE KNEKCETKEK GAITAKELYT MMTDKNISLI IMDARRMQDY QDSCILHSLS VPEEAISPGV TASWIEAHLP DDSKDTWKKR GNVEYVVLLD WFSSAKDLQI GTTLRSLKDA LFKWESKTVL RNEPLVLEGG YENWLLCYPQ YTTNAKVTPP PRRQNEEVSI SLDFTYPSLE ESIPSKPAAQ TPPASIEVDE NIELISGQNE RMGPLNISTP VEPVAASKSD VSPIIQPVPS IKNVPQIDRT KKPAVKLPEE HRIKSESTNH EQQSPQSGKV IPDRSTKPVV FSPTLMLTDE EKARIHAETA LLMEKNKQEK ELRERQQEEQ KEKLRKEEQE QKAKKKQEAE ENEITEKQQK AKEEMEKKES EQAKKEDKET SAKRGKEITG VKRQSKSEHE TSDAKKSVED RGKRCPTPEI QKKSTGDVPH TSVTGDSGSG KPFKIKGQPE SGILRTGTFR EDTDDTERNK AQREPLTRAR SEEMGRIVPG LPSGWAKFLD

PITGTFRYYH SPTNTVHMYP PEMAPSSAPP STPPTHKAKP QIPAERDREP SKLKRSYSSP DITQAIQEEE KRKPTVTPTV NRENKPTCYP KAEISRLSAS QIRNLNPVFG GSGPALTGLR NLGNTCYMNS ILQCLCNAPH LADYFNRNCY QDDINRSNLL GHKGEVAEEF GIIMKALWTG QYRYISPKDF KITIGKINDQ FAGYSQQDSQ ELLLFLMDGL HEDLNKADNR KRYKEENNDH LDDFKAAEHA WQKHKQLNES IIVALFQGQF KSTVQCLTCH KKSRTFEAFM YLSLPLASTS KCTLQDCLRL FSKEEKLTDN NRFYCSHCRA RRDSLKKIEI WKLPPVLLVH LKRFSYDGRW KQKLQTSVDF PLENLDLSQY VIGPKNNLKK YNLFSVSNHY GGLDGGHYTA YCKNAARQRW FKFDDHEVSD ISVSSVKSSA AYILFYTSLG PRVTDVAT

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 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:

Product Details

- 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:	USP8
Alternative Name:	USP8 (USP8 Products)
Background:	Ubiquitin carboxyl-terminal hydrolase 8 (EC 3.4.19.12) (Deubiquitinating enzyme 8) (Ubiquitin isopeptidase Y) (hUBPy) (Ubiquitin thioesterase 8) (Ubiquitin-specific-processing protease 8),FUNCTION: Hydrolase that can remove conjugated ubiquitin from proteins and therefore plays an important regulatory role at the level of protein turnover by preventing degradation. Converts both 'Lys-48' an 'Lys-63'-linked ubiquitin chains. Catalytic activity is enhanced in the M phase. Involved in cell proliferation. Required to enter into S phase in response to serum stimulation. May regulate T-cell anergy mediated by RNF128 via the formation of a complex containing RNF128 and OTUB1. Probably regulates the stability of STAM2 and RASGRF1. Regulates endosomal ubiquitin dynamics, cargo sorting, membrane traffic at early endosomes, and maintenance of ESCRT-0 stability. The level of protein ubiquitination on endosomes is essential for maintaining the morphology of the organelle. Deubiquitinates EPS15 and controls tyrosine kinase stability. Removes conjugated ubiquitin from EGFR thus regulating EGFR degradation and downstream MAPK signaling. Involved in acrosome biogenesis through interaction with the spermatid ESCRT-0 complex and microtubules. Deubiquitinates BIRC6/bruce and KIF23/MKLP1. Deubiquitinates BACE1 which inhibits BACE1 lysosomal degradation and modulates BACE-mediated APP cleavage and amyloid-beta formation (PubMed:27302062). {ECO:0000269|PubMed:16520378, ECO:0000269|PubMed:17711858, ECO:0000269|PubMed:18329369, ECO:0000269|PubMed:27302062, ECO:0000269|PubMed:9628861}.
Molecular Weight:	127.5 kDa
UniProt:	P40818

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. 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

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