Datasheet for ABIN3136307

USP47 Protein (AA 1-1376) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	USP47
Protein Characteristics:	AA 1-1376
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP47 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MVPGEENQLV PKEDVFWRCR QNIFDEMKKK FLQIENAAEE PRVLCIIQDT TNSKTVSERI TLNLPASTPV RKLFEDVANK VGYINGTFDL TRENGVTTAD MAPLDHTSDK SLLDANFEPG KKNFLHLTDK DGEPPQMLLE DSNNVDDSVH DRFIGPLPRE GSVASTNDYV SQNYSYSSIL NKSETGYVGL VNQAMTCYLN SLLQTLFMTP EFRNALYKWE FEDSEEDPVT SIPYQLQRLF VLLQTSKKRA IETTDVTRSF GWDSSEAWQQ HDVQELCRVM FDALEQKWKQ TEQADLINEL YQGKLKDYVR CLECGYEGWR IDTYLDIPLV IRPYGSSQAF ASVEEALHAF IQPEILDGPN QYFCERCKKK CDARKGLRFL HFPYLLTLQL KRFDFDYTTM HRIKLNDRMS FPEELDMSTF IDIEDEKSPQ TESCTDSGAE NEGSCHSDQM SNDFSTDDAV DEGICLESSS GSEKISKPGL EKNSLMYELF SVMVHSGSAA GGHYYACIKS FSDDQWYSFN DQHVSRITQE DIKKTHGGSS GSRGYYSSAF ASSTNAYMLI YRLKDPTRNA KFLEVDEYPE HIKNLVQKER ELEEQEKRQR EIERNTCKIK LFCLHPVKQV MMENKLEVHK DKTLKEAVEM AYKMMDLEDV IPLDCCRLVK

YDEFHDYLER SYEGEEDTPM GLLLGGVKST YMFDLLLETR KPDQIFQSYK PGEVMVKVHV VDLKAETVAA PVTVRAYLNQ TVTEFKQLIS KATHLPADSM RIVLERCYND LRLLSMPSKT LKAEGFFRSN KVFVESSETV DHQAAFTDSH LWKLLDRHAN TIRLFVLLPE QSPGSYSKRT AYQKAGGDSG NVDDDCERVK GPAGNLKSVD AILEESTEKL KSLSLQQQQQ DGDNGDSSKS TETSDFENIE SPLNERGSST SVDNRELEQH IQTSDPENFQ SEERSDSDVN NDRSTSSVDS DILSSSHSSD TLCNADSAQI PLANGLDSHS ITSSRRTKAN EGKKETWDTA EEDSGTDSEY DESGKSRGDM QYMYFKADPY TADEGSGEGH KWLMVHVDKR ITLAAFKQHL EPFVGVLSSH FKVFRVYTSN QEFETVRLNE TLSSFSDDNK ITIRLGRALK KGEYRVKVCQ LLVNEQEPCK FLLDAVFAKG MTVRQSKEEL IPQLREQCGL DLSIDRFRLR KKTWKNPGTV FLDYHIYEED INISSNWEVF LEVLDGVEKM KSMSQLAILT RRWRPAEMKL DPFQELVLES NSVDELREKL SEISGIPLED IEFAKGRGTF PCDISVLDIH QDLDWNPKVS TLNVWPLYIC DDGAVIFYRD RTEEVMELTD EQRNELMKKE SSRLQKTGHR VTYSPRKEKA LKIYLDGAPN KDVAQD

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

Product Details

	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. • 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:	USP47
Alternative Name:	Usp47 (USP47 Products)
Background:	Ubiquitin carboxyl-terminal hydrolase 47 (EC 3.4.19.12) (Deubiquitinating enzyme 47) (Ubiquitin thioesterase 47) (Ubiquitin-specific-processing protease 47),FUNCTION: Ubiquitin-specific protease that specifically deubiquitinates monoubiquitinated DNA polymerase beta (POLB), stabilizing POLB thereby playing a role in base-excision repair (BER) (By similarity). Acts as a regulator of cell growth and genome integrity. May also indirectly regulate CDC25A expression at a transcriptional level. {ECO:0000250, ECO:0000269|PubMed:19966869}.
Molecular Weight:	157.5 kDa
UniProt:	Q8BY87
Pathways:	Negative Regulation of intrinsic apoptotic Signaling

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

Application Details

	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