Datasheet for ABIN3137379

JMY Protein (AA 1-983) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	JMY
Protein Characteristics:	AA 1-983
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This JMY protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MSFALEETLE SDWVAVRPHV FDEREKHKFV FIVAWNEIEG KFAITCHNRT AQRQRSGSRE QAGTPASDGS RGPGSPAARG RSEAAASATA ALRSPGPRKS QAWAEGGSPR SARSLKGDPP RGPAGRGPES PLRSPARAKA SPLRRSAESR DAIASATPVP PAPPVPPVSS VRVVSASGAV SEEIEVLEMV REDEAPQPLP DSEQPPSAAE LESSAEECSW AGLFSFQDLR AVHQQLCSVN SQLEPCLPVF PEEPSGMWTV LFGGAPEMTE QEIDALCYQL QVYLGHGLDT CGWKILSQVL FTETDDPEEY YESLSELRQK GYEEVLQRAR RRIQELLDKH KTIESMVELL DLYQMEDEAY SSLAEATTEL YQYLLQPFRD MRELAMLRRQ QIKISMENDY LGPRRIESLQ KEDADWQRKA HMAVLSIQDL TVKYFEITAK AQKAVYDRMR ADQKKFGKAS WAAAAERMEK LQYAVSKETL QMMRAKEICL EQKKHALKEE MQSLQGGTEA IARLDQLESD YYDLQLQLYE VQFEILKCEE LLLTAQLESI KRLISEKRDE VVYYDTYESM EAMLEKEEMA ASVHAQREEL QKLQQKARQL EARRGRVSAK KAYLRNKKEI CIAKHHEKFQ QRFQSEDEYR AHHTIQIKRD KLHDEEERKS AWVSQERQRT LDRLRTFKQR YPGQVILKST RLRVAHSRRK STASPVPCEE QCHSLPTVLQ

GQEKTEVGGG GSQLGPSQTA EPQSLVQLED TSSEQLESTS LPPRAVVSSE LPPPQSAPLL TSIDPKPCSV TIDPLPPPLP PTPPPPPPPP PPPPPPLPVA KDNGASTTAE TLEKDALRTE GNERSIPKSA SAPAAHLFDS SQLVSARKKL RKTVEGLQRR RVSSPMDEVL ASLKRGSFHL KKVEQRTLPP FPDEDDSNNI LAQIRKGVKL KKVQKEVLRE SFTLLPDTDP LTRSIHEALR RIKEASPESE DEEEALPCTD WEN

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.
- The protein's absorbance will be measured in several dilutions and is measured against its

Product Details

	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:	JMY
Alternative Name:	Jmy (JMY Products)
Background:	Junction-mediating and -regulatory protein,FUNCTION: Acts both as a nuclear p53/TP53-cofactor and a cytoplasmic regulator of actin dynamics depending on conditions. In nucleus, acts as a cofactor that increases p53/TP53 response via its interaction with p300/EP300. Increases p53/TP53-dependent transcription and apoptosis, suggesting an important role in p53/TP53 stress response such as DNA damage. In cytoplasm, acts as a nucleation-promoting factor for both branched and unbranched actin filaments. Activates the Arp2/3 complex to induce branched actin filament networks. Also catalyzes actin polymerization in the absence of Arp2/3, creating unbranched filaments. Contributes to cell motility by controlling actin dynamics. May promote the rapid formation of a branched actin network by first nucleating new mother filaments and then activating Arp2/3 to branch off these filaments. Upon nutrient stress, directly recruited by MAP1LC3B to the phagophore membrane surfaces to promote actin assembly during autophagy (By similarity). The p53/TP53-cofactor and actin activator activities are regulated via its subcellular location. {ECO:0000250|UniProtKB:Q8N9B5, ECO:0000269|PubMed:10518217, ECO:0000269|PubMed:11511361, ECO:0000269|PubMed:19287377, ECO:0000269|PubMed:19897726}.
Molecular Weight:	110.6 kDa

Target Details

UniProt:	Q9QXM1
Pathways:	Regulation of Actin Filament Polymerization

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. 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)

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