Datasheet for ABIN3093298

JMY Protein (AA 1-988) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	JMY
Protein Characteristics:	AA 1-988
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This JMY protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSFALEETLE SDWVAVRPHV FDEREKHKFV FIVAWNEIEG KFAITCHNRT AQRQRSGSRE QAGARGGAEA GGAASDGSRG PGSPAGRGRP EATASATLVR SPGPRRSSAW AEGGSPRSTR SLLGDPRLRS PGSKGAESRL RSPVRAKPIP GQKTSEADDA AGAAAAAARP APREAQVSSV RIVSASGTVS EEIEVLEMVK EDEAPLALSD AEQPPPATEL ESPAEECSWA GLFSFQDLRA VHQQLCSVNS QLEPCLPVFP EEPSGMWTVL FGGAPEMTEQ EIDTLCYQLQ VYLGHGLDTC GWKILSQVLF TETDDPEEYY ESLSELRQKG YEEVLQRARK RIQELLDKHK NTESMVELLD LYQMEDEAYS SLAEATTELY QYLLQPFRDM RELAMLRRQQ IKISMENDYL GPRRIESLQK EDADWQRKAH MAVLSIQDLT VKYFEITAKA QKAVYDRMRA DQKKFGKASW AAAAERMEKL QYAVSKETLQ MMRAKEICLE QRKHALKEEM QSLRGGTEAI ARLDQLEADY YDLQLQLYEV QFEILKCEEL LLTAQLESIK RLISEKRDEV VYYDTYESME AMLEKEEMAA SAYLQREELQ KLQQKARQLE ARRGRVSAKK SYLRNKKEIC IAKHNEKIQQ RTRIEDEYRT HHTVQLKREK

LHDEEERKSA WVSQERQRTL DRLRTFKQRY PGQVILKSTR LRLAHARRKG AASPVLQEDH CDSLPSVLQV EEKTEEVGEG RVKRGPSQTT EPQSLVQLED TSLTQLEATS LPLSGVTSEL PPTISLPLLN NNLEPCSVTI NPLPSPLPPT PPPPPPPPPP PPPPPLPVAK DSGPETLEKD LPRKEGNEKR IPKSASAPSA HLFDSSQLVS ARKKLRKTAE GLQRRRVSSP MDEVLASLKR GSFHLKKVEQ RTLPPFPDED DSNNILAQIR KGVKLKKVQK DVLRESFTLL PDTDPLTRSI HEALRRIKEA SPESEDEEEA LPCTDWEN

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:

- 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.

Product Details

- 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:	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 (PubMed:30420355). 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 (PubMed:30420355). Activates the Arp2/3 complex to induce branched actin filament networks. Also catalyzes actin polymerization in the absence of Arp2/3, creating unbranched filaments (PubMed:30420355). 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 (PubMed:30420355). The p53/TP53-cofactor and actin activator activities are regulated via its subcellular location (By similarity). {ECO:0000250|UniProtKB:Q9QXM1, ECO:0000269|PubMed:30420355}.
Molecular Weight:	111.4 kDa
UniProt:	Q8N9B5
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

Application Details

	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