Datasheet for ABIN3127403

RBM47 Protein (AA 1-590) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	RBM47
Protein Characteristics:	AA 1-590
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RBM47 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MTAEDSATAM NSDPTVGSST KVPEGVAGAP NEAALLALIE RTGYTMVQEN GQRKYGGPPP GWEGPHPQRG CEVFVGKIPR DVYEDELVPV FETVGRIYEL RLMMDFDGKN RGYAFVMYCH KHEAKRAVRE LNNYEIRPGR LLGVCCSVDN CRLFIGGIPK MKKRGEILEE IAKVTEGVLN VIVYASAADK MKNRGFAFVE YESHRAAAMA RRKLMPGRIQ LWGHQIAVDW AEPEIDVDED VMQTVKILYV RNLMIETTEE TIKKSFGQFN PGCVERVKKI RDYAFVHFTS REDAVHAMNN LNGTELEGSC LEVTLAKPVD KEQYSRYQKA AKGGGGSAEA VAQQPSYVYS CDPYTLAYYG YPYNALIGPN RDYFVKTGSI RGRGRGAAGN RTPGPRGSYL GGYSAGRGIY SRYHEGKGKQ QEKGYELVPN LEISPVNPVA IKPGTVAIPA IGAQYSMFQA APAPKIIEDG KIHTMEHMIS PIAVQPDPAT AAAAAAAAAA AAVIPAVSTP PPFQGRPITP VYTVAPNVQR IPTAGIYGAS YVPFAAPATA TIATLQKNAA AAVYGGYAGY IPQAFPAALQ VPIHDVYQTY **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 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.

Product Details

	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:	RBM47
Alternative Name:	Rbm47 (RBM47 Products)
Background:	RNA-binding protein 47 (RNA-binding motif protein 47),FUNCTION: Single-stranded RNA-binding protein that functions in a variety of RNA processes, including alternative splicing, RNA stabilization, and RNA editing. Functions as an enzyme-substrate adapter for the cytidine deaminase APOBEC1. With APOBEC1 forms an mRNA editing complex involved into cytidine to uridine editing of a variety of mRNA molecules (PubMed:24916387, PubMed:30844405, PubMed:30309881). Through the binding of their 3'UTR, also stabilizes a variety of mRNAs and regulates the expression of genes such as the interferon alpha/beta receptor and interleukin-10 (PubMed:29844590). Also involved in the alternative splicing of several genes including TJP1. Binds the pre-mRNA (U)GCAUG consensus sequences in downstream intronic regions of alternative exons, regulating their exclusion and inclusion into mRNAs (By similarity). Independently of its RNA-binding activity, could negatively regulate MAVS by promoting its lysosomal degradation (By similarity). {ECO:0000250|UniProtKB:A0A8M1NHK4, ECO:0000250|UniProtKB:A0AV96, ECO:0000269|PubMed:24916387, ECO:0000269|PubMed:29844590, ECO:0000269|PubMed:30309881, ECO:0000269|PubMed:30844405}.
Molecular Weight:	64.1 kDa
UniProt:	Q91WT8

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.

Application Details

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)