

Datasheet for ABIN3087064

RBM47 Protein (AA 1-593) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	RBM47
Protein Characteristics:	AA 1-593
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RBM47 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MTAEDSTAAM SSDSAAGSSA KVPEGVAGAP NEAALLALME RTGYSMVQEN GQRKYGGPPP</p> <p>GWEGPHPQRG CEVFGKIPR DVYEDELVPV FEAVGRIYEL RLMMDFDGKN RGYAFVMYCH</p> <p>KHEAKRAVRE LNNYEIRPGR LLGVCCSVDN CRLFIGGIPK MKKREEILEE IAKVTEGVLD</p> <p>VIVYASAADK MKNRGFAFVE YESHRAAAMA RRKLMPGRIQ LWGHQIAVDW AEPEIDVDED</p> <p>VMETVKILYV RNLMIETTED TIKKSFGQFN PGCVERVKKI RDYAFVHFTS REDAVHAMNN</p> <p>LNGTELEGSC LEVTLAKPVD KEQYSRYQKA ARGGGAAEAA QQPSYVYSCD PYTLAYYGYP</p> <p>YNALIGPNRD YFVKAGSIRG RGRGAAGNRA PGPRGSYLGG YSAGRGIYSR YHEGKGKQQE</p> <p>KGYELVPNLE IPTVNPVAIK PGTVAIPAIG AQYSMFPAAP APKMIEDGKI HTVEHMISPI</p> <p>AVQPDPAASAA AAAAAAAAAA AAVIPTVSTP PPFQGRPITP VYTVAPNVQR IPTAGIYGAS</p> <p>YVPFAAPATA TIATLQKNAA AAAAMYGGYA GYIPQAFPAI AIQVPIPDVY QTY</p>

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.
- 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:	RBM47
Alternative Name:	RBM47 (RBM47 Products)
Background:	<p>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 (PubMed:24038582, PubMed:24916387, PubMed:27050523, PubMed:30844405, PubMed:31358901, PubMed:34160127). 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:24038582, PubMed:24916387, PubMed:30844405). 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:34160127). 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 (PubMed:31358901, PubMed:27050523). Independently of its RNA-binding activity, could negatively regulate MAVS by promoting its lysosomal degradation (By similarity). {ECO:0000250 UniProtKB:A0A8M1NKH4, ECO:0000269 PubMed:24038582, ECO:0000269 PubMed:24916387, ECO:0000269 PubMed:27050523, ECO:0000269 PubMed:30844405, ECO:0000269 PubMed:31358901, ECO:0000269 PubMed:34160127}.</p>
Molecular Weight:	64.1 kDa
UniProt:	A0AV96

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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</p>

Application Details

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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