

Datasheet for ABIN3087059
RBM15B Protein (AA 1-890) (Strep Tag)



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1 Image

Overview

Quantity:	1 mg
Target:	RBM15B
Protein Characteristics:	AA 1-890
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RBM15B protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	<p>MKRQSERDSS PSGRGSSSSA KRPREREREA EAGGRRAAHK ASGGAKHPVP ARARDKPRGS GSGGGGHRDG RGTGDANHRA SSGRSSGSGA GGGGRGGKAS GDPGASGMSP RASPLPPPPP PPGAEPACPG SSAAAPEYKT LLISSLSPAL PAEHLEDRLF HQFKRFGIIS LRLSHTPELG RVAYVNFHRP QDAREARQHA LARQLLYDR PLKVEPVYLR GGGGSSRRSS SSSAAASTPP PGPPAPADPL GYLPLHGGYQ YKQRSLSPPVA APPLREPRAR HAAAAFALDA AAAAIVGLSR ERALDYGLY DDRGRPYGYP AVCEEDLMPE DDQRATRNLF IGNLDHVSVE VELRRAFEKY GIIEEVVIKR PARGQGGAYA FLKFQNLDMA HRAKVAMSGR VIGRNPIKIG YGKANPTTRL WVGGLGPNTS LAALAREFDR FGSIRTIDHV KGDSFAYIQY ESLDAAQAAC AKMRGFPLGG PDRRLRVDF AKAETRYPPQ YQPSLPVHY ELLTDGYTRH RNLDADLVRD RTPPHLLYSD RDRTFLEGDW TSPSKSSDRR NSLEGYSRSV RSRSGERWGA DGDRGLPKPW EERRKRRSLS SDRGRTHHSP YEERSRTKGS GQQSERSGSDR TPERSRKENH SSEGTKESSS NSLSNSRHGA EERGHHHHHH EAADSSHGKK ARDSERNHRT TEAEPKPLEE PKHETKLLKN LSEYAQTLQL</p>
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GWNGLLVLKN SCFPTSMHIL EGDQGVISL LKDHTSGSKL TQLKIAQRLR LDQPKLDEV
RRIKQGSPNG YAVLLATQAT PSGLGTEGMP TVEPGLQRRL LRNLVSYLKQ KQAAGVISLP
VGGSKGRDGT GMLYAFPPCD FSQQYLQSAL RTLKLEEEH MVIVVRDTA

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.

Product Details

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none">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:	RBM15B
Alternative Name:	RBM15B (RBM15B Products)
Background:	Putative RNA-binding protein 15B (One-twenty two protein 3) (HsOTT3) (HuOTT3) (RNA-binding motif protein 15B),FUNCTION: RNA-binding protein that acts as a key regulator of N6-methyladenosine (m6A) methylation of RNAs, thereby regulating different processes, such as alternative splicing of mRNAs and X chromosome inactivation mediated by Xist RNA (PubMed:16129689, PubMed:27602518). Associated component of the WMM complex, a complex that mediates N6-methyladenosine (m6A) methylation of RNAs, a modification that plays a role in the efficiency of mRNA splicing and RNA processing (PubMed:27602518). Plays a key role in m6A methylation, possibly by binding target RNAs and recruiting the WMM complex (PubMed:27602518). Involved in random X inactivation mediated by Xist RNA: acts by binding Xist RNA and recruiting the WMM complex, which mediates m6A methylation, leading to target YTHDC1 reader on Xist RNA and promoting transcription repression activity of Xist (PubMed:27602518). Functions in the regulation of alternative or illicit splicing, possibly by regulating m6A methylation (PubMed:16129689). Inhibits pre-mRNA splicing (PubMed:21044963). Also functions as a mRNA export factor by acting as a cofactor for the nuclear export receptor NXF1 (PubMed:19586903). {ECO:0000269 PubMed:19586903, ECO:0000269 PubMed:21044963, ECO:0000269 PubMed:27602518, ECO:0000305 PubMed:16129689}.
Molecular Weight:	97.2 kDa
UniProt:	Q8NDT2

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)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process