Datasheet for ABIN3094935

RBM15 Protein (AA 1-977) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	RBM15
Protein Characteristics:	AA 1-977
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RBM15 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MRTAGRDPVP RRSPRWRRAV PLCETSAGRR VTQLRGDDLR RPATMKGKER SPVKAKRSRG GEDSTSRGER SKKLGGSGGS NGSSSGKTDS GGGSRRSLHL DKSSSRGGSR EYDTGGGSSS SRLHSYSSPS TKNSSGGGES RSSSRGGGGE SRSSGAASSA PGGGDGAEYK TLKISELGSQ LSDEAVEDGL FHEFKRFGDV SVKISHLSGS GSGDERVAFV NFRRPEDARA AKHARGRLVL YDRPLKIEAV YVSRRRSRSP LDKDTYPPSA SVVGASVGGH RHPPGGGGGQ RSLSPGGAAL GYRDYRLQQL ALGRLPPPPP PPLPRDLERE RDYPFYERVR PAYSLEPRVG AGAGAAPFRE VDEISPEDDQ RANRTLFLGN LDITVTESDL RRAFDRFGVI TEVDIKRPSR GQTSTYGFLK FENLDMSHRA KLAMSGKIII RNPIKIGYGK ATPTTRLWVG GLGPWVPLAA LAREFDRFGT IRTIDYRKGD SWAYIQYESL DAAHAAWTHM RGFPLGGPDR RLRVDFADTE HRYQQQYLQP LPLTHYELVT DAFGHRAPDP LRGARDRTPP LLYRDRDRDL YPDSDWVPPP PPVRERSTRT AATSVPAYEP LDSLDRRRDG WSLDRDRGDR DLPSSRDQPR KRRLPEESGG RHLDRSPESD

RPRKRHCAPS PDRSPELSSS RDRYNSDNDR SSRLLLERPS PIRDRRGSLE KSQGDKRDRK NSASAERDRK HRTTAPTEGK SPLKKEDRSD GSAPSTSTAS SKLKSPSQKQ DGGTAPVASA SPKLCLAWQG MLLLKNSNFP SNMHLLQGDL QVASSLLVEG STGGKVAQLK ITQRLRLDQP KLDEVTRRIK VAGPNGYAIL LAVPGSSDSR SSSSSAASDT ATSTQRPLRN LVSYLKQKQA AGVISLPVGG NKDKENTGVL HAFPPCEFSQ QFLDSPAKAL AKSEEDYLVM IIVRGFGFQI GVRYENKKRE NLALTLL

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:	RBM15
Alternative Name:	RBM15 (RBM15 Products)
Background:	RNA-binding protein 15 (One-twenty two protein 1) (RNA-binding motif protein 15),FUNCTION: RNA-binding protein that acts as a key regulator of N6-methyladenosine (m6A) methylation of RNAs, thereby regulating different processes, such as hematopoietic cell homeostasis, alternative splicing of mRNAs and X chromosome inactivation mediated by Xist RNA (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 (By similarity). 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). Required for the development of multiple tissues, such as the maintenance of the homeostasis of long-term hematopoietic stem cells and for megakaryocyte (MK) and B-cell differentiation (By similarity). Regulates megakaryocyte differentiation by regulating alternative splicing of genes important for megakaryocyte differentiation, probably regulates alternative splicing via m6A regulation (PubMed:26575292). Required for placental vascular branching morphogenesis and embryonic development of the heart and spleen (By similarity). Acts as a regulator of thrombopoietin response in hematopoietic stem cells by regulating alternative splicing of MPL (By similarity). May also function as an mRNA export factor, stimulating export and expression of RTE-containing mRNAs which are present in many retrotransposons that require to be exported prior to splicing (PubMed:17001072, PubMed:19786495). High affinity binding of pre-mRNA to RBM15 may allow targeting of the mRNP to the export helicase DBP5 in a manner that is independent of splicing-mediated NXF1

Target Details

	deposition, resulting in export prior to splicing (PubMed:17001072, PubMed:19786495). May be implicated in HOX gene regulation (PubMed:11344311). {ECO:0000250|UniProtKB:Q0VBL3, ECO:0000269|PubMed:17001072, ECO:0000269|PubMed:19786495, ECO:0000269|PubMed:26575292, ECO:0000269|PubMed:27602518, ECO:0000305|PubMed:11344311}.
Molecular Weight:	107.2 kDa
UniProt:	Q96T37

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. 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