Datasheet for ABIN3086934

RBM14 Protein (AA 1-669) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	RBM14
Protein Characteristics:	AA 1-669
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RBM14 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MKIFVGNVDG ADTTPEELAA LFAPYGTVMS CAVMKQFAFV HMRENAGALR AIEALHGHEL RPGRALVVEM SRPRPLNTWK IFVGNVSAAC TSQELRSLFE RRGRVIECDV VKDYAFVHME KEADAKAAIA QLNGKEVKGK RINVELSTKG QKKGPGLAVQ SGDKTKKPGA GDTAFPGTGG FSATFDYQQA FGNSTGGFDG QARQPTPPFF GRDRSPLRRS PPRASYVAPL TAQPATYRAQ PSVSLGAAYR AQPSASLGVG YRTQPMTAQA ASYRAQPSVS LGAPYRGQLA SPSSQSAAAS SLGPYGGAQP SASALSSYGG QAAAASSLNS YGAQGSSLAS YGNQPSSYGA QAASSYGVRA AASSYNTQGA ASSLGSYGAQ AASYGAQSAA SSLAYGAQAA SYNAQPSASY NAQSAPYAAQ QAASYSSQPA AYVAQPATAA AYASQPAAYA AQATTPMAGS YGAQPVVQTQ LNSYGAQASM GLSGSYGAQS AAAATGSYGA AAAYGAQPSA TLAAPYRTQS SASLAASYAA QQHPQAAASY RGQPGNAYDG AGQPSAAYLS MSQGAVANAN STPPPYERTR LSPPRASYDD PYKKAVAMSK RYGSDRRLAE LSDYRRLSES QLSFRRSPTK SSLDYRRLPD AHSDYARYSG SYNDYLRAAQ

	MHSGYQRRM **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®).

Product Details

Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	RBM14
Alternative Name:	RBM14 (RBM14 Products)
Background:	RNA-binding protein 14 (Paraspeckle protein 2) (PSP2) (RNA-binding motif protein 14) (RRM-containing coactivator activator/modulator) (Synaptotagmin-interacting protein) (SYT-interacting protein),FUNCTION: Isoform 1 may function as a nuclear receptor coactivator, enhancing transcription through other coactivators such as NCOA6 and CITED1. Isoform 2, functions as a transcriptional repressor, modulating transcriptional activities of coactivators including isoform 1, NCOA6 and CITED1 (PubMed:11443112). Regulates centriole biogenesis by suppressing the formation of aberrant centriolar protein complexes in the cytoplasm and thus preserving mitotic spindle integrity. Prevents the formation of the STIL-CENPJ complex (which can induce the formation of aberrant centriolar protein complexes) by interfering with the interaction of STIL with CENPJ (PubMed:25385835). Plays a role in the regulation of DNA virus-mediated innate immune response by assembling into the HDP-RNP complex, a complex that serves as a platform for IRF3 phosphorylation and subsequent innate immune response activation through the cGAS-STING pathway (PubMed:28712728). Also involved in the regulation of pre-mRNA alternative splicing (PubMed:37548402). {ECO:0000269|PubMed:11443112, ECO:0000269|PubMed:25385835, ECO:0000269|PubMed:28712728, ECO:0000269|PubMed:37548402}.
Molecular Weight:	69.5 kDa
UniProt:	Q96PK6
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway

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

Application Details

	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