Datasheet for ABIN7555151

RBM15 Protein (AA 1-977) (His tag)

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Overview

Quantity:	1 mg
Target:	RBM15
Protein Characteristics:	AA 1-977
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RBM15 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant RBM15 Protein expressed in mammalian cells.
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

Product Details

	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 Purification-Tag is based on experiences 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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, 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

Target Details

	(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 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:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid

Handling

Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

