Datasheet for ABIN7555124

RBM20 Protein (AA 1-1227) (His tag)

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Overview

Quantity:	1 mg
Target:	RBM20
Protein Characteristics:	AA 1-1227
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RBM20 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant RBM20 Protein expressed in mammalian cells.
Sequence:	MVLAAAMSQD ADPSGPEQPD RVACSVPGAR ASPAPSGPRG MQQPPPPPQP PPPPQAGLPQ IIQNAAKLLD KNPFSVSNPN PLLPSPASLQ LAQLQAQLTL HRLKLAQTAV TNNTAAATVL NQVLSKVAMS QPLFNQLRHP SVITGPHGHA GVPQHAAAIP STRFPSNAIA FSPPSQTRGP GPSMNLPNQP PSAMVMHPFT GVMPQTPGQP AVILGIGKTG PAPATAGFYE YGKASSGQTY GPETDGQPGF LPSSASTSGS VTYEGHYSHT GQDGQAAFSK DFYGPNSQGS HVASGFPAEQ AGGLKSEVGP LLQGTNSQWE SPHGFSGQSK PDLTAGPMWP PPHNQPYELY DPEEPTSDRT PPSFGGRLNN SKQGFIGAGR RAKEDQALLS VRPLQAHELN DFHGVAPLHL PHICSICDKK VFDLKDWELH VKGKLHAQKC LVFSENAGIR CILGSAEGTL CASPNSTAVY NPAGNEDYAS NLGTSYVPIP ARSFTQSSPT FPLASVGTTF AQRKGAGRVV HICNLPEGSC TENDVINLGL PFGKVTNYIL MKSTNQAFLE MAYTEAAQAM VQYYQEKSAV INGEKLLIRM SKRYKELQLK KPGKAVAAII QDIHSQRERD MFREADRYGP ERPRSRSPVS RSLSPRSHTP SFTSCSSSHS PPGPSRADWG NGRDSWEHSP YARREEERDP APWRDNGDDK RDRMDPWAHD RKHHPRQLDK

Product Details

	AELDERPEGG RPHREKYPRS GSPNLPHSVS SYKSREDGYY RKEPKAKSDK YLKQQQDAPG RSRRKDEARL RESRHPHPDD SGKEDGLGPK VTRAPEGAKA KQNEKNKTKR TDRDQEGADD RKENTMAENE AGKEEQEGME ESPQSVGRQE KEAEFSDPEN TRTKKEQDWE SESEAEGESW YPTNMEELVT VDEVGEEEDF IVEPDIPELE EIVPIDQKDK ICPETCLCVT TTLDLDLAQD FPKEGVKAVG NGAAEISLKS PRELPSASTS CPSDMDVEMP GLNLDAERKP AESETGLSLE DSDCYEKEAK GVESSDVHPA PTVQQMSSPK PAEERARQPS PFVDDCKTRG TPEDGACEGS PLEEKASPPI ETDLQNQACQ EVLTPENSRY VEMKSLEVRS PEYTEVELKQ PLSLPSWEPE DVFSELSIPL GVEFVVPRTG FYCKLCGLFY TSEETAKMSH CRSAVHYRNL QKYLSQLAEE GLKETEGADS PRPEDSGIVP RFERKKL **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:	RBM20
Alternative Name:	RBM20 (RBM20 Products)

Target Details

Background:	RNA-binding protein 20 (RNA-binding motif protein 20),FUNCTION: RNA-binding protein that acts as a regulator of mRNA splicing of a subset of genes encoding key structural proteins involved in cardiac development, such as TTN (Titin), CACNA1C, CAMK2D or PDLIM5/ENH (PubMed:22466703, PubMed:24960161, PubMed:27531932, PubMed:27496873, PubMed:26604136, PubMed:29895960, PubMed:30948719, PubMed:32840935, PubMed:35427468, PubMed:34732726). Acts as a repressor of mRNA splicing: specifically binds the 5'UCUU-3' motif that is predominantly found within intronic sequences of pre-mRNAs, leading to the exclusion of specific exons in target transcripts (PubMed:24960161, PubMed:30948719, PubMed:34732726). RBM20-mediated exon skipping is hormone-dependent and is essential for TTN isoform transition in both cardiac and skeletal muscles (PubMed:27531932, PubMed:30948719). RBM20-mediated exon skipping of TTN provides substrates for the formation of circular RNA (circRNAs) from the TTN transcripts (PubMed:27531932, PubMed:34732726). Together with RBM24, promotes the expression of short isoforms of PDLIM5/ENH in cardiomyocytes (By similarity). {ECO:0000250|UniProtKB:E9PT37, ECO:0000269|PubMed:22466703, ECO:0000269|PubMed:24960161, ECO:0000269|PubMed:26604136, ECO:0000269|PubMed:27496873, ECO:0000269|PubMed:27531932, ECO:0000269|PubMed:29895960, ECO:0000269|PubMed:30948719, ECO:0000269|PubMed:32840935, ECO:0000269|PubMed:34732726, ECO:0000269|PubMed:35427468}.
Molecular Weight:	134.3 kDa
UniProt:	Q5T481

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

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	12 months