Datasheet for ABIN7551189

RBM7 Protein (AA 1-266) (His tag)

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Overview

Quantity:	1 mg
Target:	RBM7
Protein Characteristics:	AA 1-266
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RBM7 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant RBM7 Protein expressed in mammalian cells.
Sequence:	MGAAAAEADR TLFVGNLETK VTEELLFELF HQAGPVIKVK IPKDKDGKPK QFAFVNFKHE VSVPYAMNLL NGIKLYGRPI KIQFRSGSSH APQDVSLSYP QHHVGNSSPT STSPSRYERT MDNMTSSAQI IQRSFSSPEN FQRQAVMNSA LRQMSYGGKF GSSPLDQSGF SPSVQSHSHS FNQSSSSQWR QGTPSSQRKV RMNSYPYLAD RHYSREQRYT DHGSDHHYRG KRDDFFYEDR NHDDWSHDYD NRRDSSRDGK WRSSRH **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:

Product Details

	• 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:	RBM7
Alternative Name:	RBM7 (RBM7 Products)
Background:	RNA-binding protein 7 (RNA-binding motif protein 7),FUNCTION: RNA-binding subunit of the trimeric nuclear exosome targeting (NEXT) complex, a complex that functions as an RNA exosome cofactor that directs a subset of non-coding short-lived RNAs for exosomal degradation (PubMed:25189701, PubMed:25578728, PubMed:25525152, PubMed:25852104, PubMed:27871484). NEXT is involved in surveillance and turnover of aberrant transcripts and non-coding RNAs (PubMed:25189701, PubMed:27871484, PubMed:25852104). Binds preferentially polyuridine sequences and associates with newly synthesized RNAs, including pre-mRNAs and short-lived exosome substrates such as promoter upstream transcripts (PROMPTs), enhancer RNAs (eRNAs), and 3'-extended products from small nuclear RNAs (snRNAs) (PubMed:25189701, PubMed:25578728, PubMed:25525152, PubMed:25852104). Participates in several biological processes including DNA damage response (DDR) and stress response (PubMed:25525152, PubMed:30824372). During stress response, activation of the p38MAPK-MK2 pathway decreases RBM7-RNA-binding and subsequently the RNA exosome degradation activities, thereby modulating the turnover of non-coding transcriptome

Target Details

	(PubMed:25525152). Participates in DNA damage response (DDR), through its interaction with MEPCE and LARP7, the core subunits of 7SK snRNP complex, that release the positive transcription elongation factor b (P-TEFb) complex from the 7SK snRNP. In turn, activation of P-TEFb complex induces the transcription of P-TEFb-dependent DDR genes to promote cell viability (PubMed:30824372). {ECO:0000269|PubMed:25189701, ECO:0000269|PubMed:25525152, ECO:0000269|PubMed:25578728, ECO:0000269|PubMed:25852104, ECO:0000269|PubMed:27871484, ECO:0000269|PubMed:30824372}.
Molecular Weight:	30.5 kDa
UniProt:	Q9Y580

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