Datasheet for ABIN7551243

RBPMS Protein (AA 1-196) (His tag)

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Overview

Quantity:	1 mg
Target:	RBPMS
Protein Characteristics:	AA 1-196
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RBPMS protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant RBPMS Protein expressed in mammalian cells.
Sequence:	MNNGGKAEKE NTPSEANLQE EEVRTLFVSG LPLDIKPREL YLLFRPFKGY EGSLIKLTSK QPVGFVSFDS RSEAEAAKNA LNGIRFDPEI PQTLRLEFAK ANTKMAKNKL VGTPNPSTPL PNTVPQFIAR EPYELTVPAL YPSSPEVWAP YPLYPAELAP ALPPPAFTYP ASLHAQMRWL PPSEATSQGW KSRQFC **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

Product Details

	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:	RBPMS
Alternative Name:	RBPMS (RBPMS Products)
Background:	RNA-binding protein with multiple splicing (RBP-MS) (RBPMS) (Heart and RRM expressed sequence) (Hermes),FUNCTION: [Isoform A]: RNA binding protein that mediates the regulation of pre-mRNA alternative splicing (AS) (PubMed:24860013, PubMed:26347403). Acts either as activator (FLNB, HSPG2, LIPA1, MYOCD, PTPRF and PPFIBP1) or repressor (TPM1, ACTN1, ITGA7, PIEZO1, LSM14B, MBNL1 and MBML2) of splicing events on specific pre-mRNA targets (By similarity). Together with RNA binding proteins RBFOX2 and MBNL1/2, activates a splicing program associated with differentiated contractile vascular smooth muscle cells (SMC) by regulating AS of numerous pre-mRNA involved in actin cytoskeleton and focal adhesion machineries, suggesting a role in promoting a cell differentiated state (By similarity). Binds to introns, exons and 3'-UTR associated with tandem CAC trinucleotide motifs separated by a variable spacer region, at a minimum as a dimer. The minimal length of RNA required for RBPMS-binding tandem CAC motifs is 15 nt, with spacing ranging from 1 to 9 nt. Can also bind to CA dinucleotide repeats (PubMed:24860013, PubMed:26347403). Mediates repression of TPM1 exon 3 by binding to CAC tandem repeats in the flanking intronic regions, followed by higher-order oligomerization and heterotypic interactions with other splicing regulators including MBNL1 and RBFOX2, which prevents assembly of ATP-dependent splicing complexes (By similarity). {ECO:0000250|UniProtKB:A0A8I6G705, ECO:0000269|PubMed:24860013,

Target Details

	ECO:0000269|PubMed:26347403}., FUNCTION: [Isoform C]: Acts as a regulator of pre-mRNA alternative splicing (AS) (By similarity). Binds mRNA (PubMed:17099224). Regulates AS of ACTN1, FLNB, although with lower efficiency than isoform A / RBPMSA (By similarity). Acts as coactivator of SMAD transcriptional activity in a TGFB1-dependent manner, possibly through increased phosphorylation of SMAD2 and SMAD3 at the C-terminal SSXS regions and promotion of the nuclear accumulation of SMAD proteins (PubMed:17099224). {ECO:0000250|UniProtKB:A0A8I6G705, ECO:0000269|PubMed:17099224}.
Molecular Weight:	21.8 kDa
UniProt:	Q93062

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

