

Product datasheet for PH307607

RBM4 (NM_002896) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	RBM4 MS Standard C13 and N15-labeled recombinant protein (NP_002887)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207607
Predicted MW:	40.3 kDa
Protein Sequence:	>RC207607 protein sequence Red=Cloning site Green=Tags(s)
	MVKLFIGNLPREATEQEIRSLFEQYGVLECDIKNYGFVHIEDKTAEDAIRNLHHYKLHGVNINVEAS KNKSKTSTKLHVGNIPTCTNKELRAKFEEYGPVIECDIVKDYAFVHMERAEADAVEAIRGLDNTEFQGKR MHVQLST SRLRTAPGMGDQSGCYRCGKEGHSKECPIDRSGRVADLTEQYNEQYGAVRTPYTMSYGDLSY YNNAYGALDAYYKRCRAARSYEAVAAAAASVYNYAEQTLSQLPQVQNTAMASHLTSTSLDPYDRHLLPTS GAAATAAAAAAAAAAVTAASTSYGRDRSPLRRATAPVPTVGEQYGYGHESELQASAAAARNSLYDMARY EREQYADRARYSAF
	SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_002887
RefSeq Size:	1714
RefSeq ORF:	1092
Synonyms:	LARK; RBM4A; ZCCHC21; ZCRB3A
Locus ID:	5936



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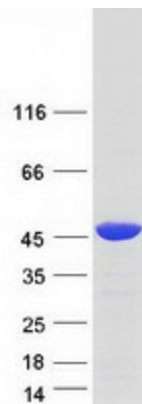
UniProt ID: [Q9BWF3](#)

Cytogenetics: 11q13.2

Summary: RNA-binding factor involved in multiple aspects of cellular processes like alternative splicing of pre-mRNA and translation regulation. Modulates alternative 5'-splice site and exon selection. Acts as a muscle cell differentiation-promoting factor. Activates exon skipping of the PTB pre-mRNA during muscle cell differentiation. Antagonizes the activity of the splicing factor PTBP1 to modulate muscle cell-specific exon selection of alpha tropomyosin. Binds to intronic pyrimidine-rich sequence of the TPM1 and MAPT pre-mRNAs. Required for the translational activation of PER1 mRNA in response to circadian clock. Binds directly to the 3' UTR of the PER1 mRNA. Exerts a suppressive activity on Cap-dependent translation via binding to CU-rich responsive elements within the 3' UTR of mRNAs, a process increased under stress conditions or during myocytes differentiation. Recruits EIF4A1 to stimulate IRES-dependent translation initiation in response to cellular stress. Associates to internal ribosome entry segment (IRES) in target mRNA species under stress conditions. Plays a role for miRNA-guided RNA cleavage and translation suppression by promoting association of AGO2-containing miRNPs with their cognate target mRNAs. Associates with miRNAs during muscle cell differentiation. Binds preferentially to 5'-CGCGCG[GCA]-3' motif in vitro.[UniProtKB/Swiss-Prot Function]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified RBM4 protein (Cat# [TP307607]). The protein was produced from HEK293T cells transfected with RBM4 cDNA clone (Cat# [RC207607]) using MegaTran 2.0 (Cat# [TT210002]).