Recombinant Human RBM4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. RBM4-2490H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RBM4 MS Standard C13 and N15-labeled recombinant protein (NP_002887) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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 respons 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

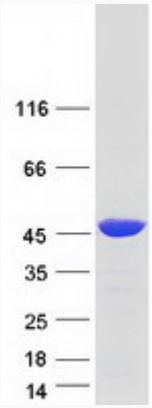
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	preferentially to 5'-CGCGCG[GCA]-3' motif in vitro.
Molecular Mass	40.3 kDa
AA Sequence	MVKLFIGNLPREATEQEIRSLFEQYGKVLECDIIKNYGFVHIEDKTAAEDAIRNLHHYK LHGVNINVEASKNKSKTSTKLHVGNISPTCTNKELRAKFEEYGPVIECDIVKDYAFVH MERAEDAVEAIRGLDNTEFQGKRMHVQLSTSRLRTAPGMGDQSGCYRCGKEGHW SKECPIDRSGRVADLTEQYNEQYGAVRTPYTMSYGDSLYYNNAYGALDAYYKRCR AARSYEAVAAAAASVYNYAEQTLSQLPQVQNTAMASHLTSTSLDPYDRHLLPTSGA AATAAAAAAAAAAVTAASTSYYGRDRSPLRRATAPVPTVGEGYGYGHESELSQASA AARNSLYDMARYEREQYADRARYSAFSGPTRTRPLEQKLISEEDLAANDILDYKDDD DKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	RBM4 RNA binding motif protein 4 [Homo sapiens (human)]
Official Symbol	RBM4
Synonyms	RBM4; RNA binding motif protein 4; RNA-binding protein 4; LARK; RBM4A;

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	ZCCHC21; ZCRB3A; lark homolog; RNA-binding motif protein 4a; transcriptional coactivator CoAZ; zinc finger CCHC-type and RNA binding motif 3A; FLJ36727; MGC75138; DKFZp547K0918;
Gene ID	5936
mRNA Refseq	NM_002896
Protein Refseq	NP_002887
MIM	602571
UniProt ID	Q9BWF3
SDS-PAGE	

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