

Product datasheet for **SC118336**

RBM4 (NM_002896) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	RBM4
Synonyms:	LARK; RBM4A; ZCCHC21; ZCRB3A
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF within SC118336 sequence for NM_002896 edited (data generated by NextGen Sequencing)

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ATGGTGAAGCTGTTTCATCGGAAACCTGCCCGGGAGGCTACAGAGCAGGAGATTCGCTCA
CTCTTCGAGCAGTATGGGAAGGTGCTGGAATGTGACATCATTAAGAATTACGGCTTTGTG
CACATAGAAGACAAGACGGCAGCTGAGGATGCCATACGCAACCTGCACCATTACAAGCTT
CATGGGGTGAACATCAACGTGGAAGCCAGCAAGAATAAGAGCAAAACCTCAACAAAGTTG
CATGTGGGCAACATCAGTCCCACCTGCACCAATAAGGAGCTTCGAGCCAAGTTTGAGGAG
TATGGTCCGGTCATCGAATGTGACATCGTGAAGATTATGCCTTCGTACACATGGAGCGG
GCAGAGGATGCAGTGGAGGCCATCAGGGGCCTTGATAACACAGAGTTTCAAGGCAAACGA
ATGCACGTGCAGTTGTCCACCAGCCGGCTTAGGACTGCGCCCGGATGGGAGACCAGAGC
GGCTGTATCGGTGCGGGAAGAGGGGCACTGGTCCAAAGAGTGTCCGATAGATCGTTCA
GGCCGCGTGGCAGACTTGACCGAGCAATATAATGAGCAATACGGAGCAGTGCCTACGCCT
TACACCATGAGCTATGGGGATTCAATTGTATTACAACAACGCGTACGGAGCGCTCGATGCC
TACTACAAGCGCTGCCGTGCTGCCCGGTCTATGAGGCAGTGGCAGCTGCAGCTGCCTCC
GTGTATAATTACGAGAGCAGACCCTGTCCAGCTGCCACAAGTCCAGAATACAGCCATG
GCCAGTCACCTCACCTCCACCTCTCTCGATCCCTACGATAGACACCTGTTGCCGACCTCA
GGAGCTGCTGCCACAGCTGCTGCTGCAGCAGCAGCCGCTGCTGCTGTTACTGCAGCTTCC
ACTTCATATTACGGGCGGGATCGGAGCCCCCTGCGTCGCGCTACAGCCCCAGTCCCCACT
GTTGGAGAGGGCTACGGTTACGGGCATGAGAGTGAGTTGTCCCAAGCTTCAGCAGCCGCG
CGGAATTCTCTGTACGACATGGCCCGGTATGAGCGGGAGCAGTATGCCGATCGGGCGCGG
TACTCAGCCTTTTAA
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Clone variation with respect to NM_002896.3



5' Read Nucleotide

Sequence:

>OriGene 5' read for NM_002896 unedited
 NNTTTCNGGATTTTGTNTATACGACTCACTTATAGGGCGGCCGGAATCGGCACGAGGGAA
 GCGTCCGCGCCGAGGAGGAGGCCCTGCTGGTTTCTGTGCGGGCTCTTGTCAAGATGGT
 GAAGCTGTTTCATCGGAAACCTGCCCCGGGAGGCTACAGAGCAGGAGATTGCTCACTCTT
 CGAGCAGTATGGGAAGGTGCTGGAATGTGACATCATTAAAGAATTACGGCTTTGTGCACAT
 AGAAGACAAGACGGCAGCTGAGGATGCCATACGCAACCTGCACCATTACAAGCTTCATGG
 GGTGAACATCAACGTGGAAGCCAGCAAGAATAAGAGCAAAACCTCAACAAAGTTGCATGT
 GGGCAACATCAGTCCCACCTGCACCAATAAGGAGCTTCGAGCCAAGTTTGAGGAGTATNG
 GTCCGGTCATCGAATGTGACATCGTGAAAGATTATGCCTTCGTACACATGGAGCGGGCAG
 AGGNATGCAGTGGAGGCCATCAGGGGCCCTTGATAACACAGAGTTTCAAGGCAACAATGC
 CGTGCCAGTTGTCCACAGCCGGCTTAGGACGCGCCCGGATAGGGAGACAGGAGCGGCT
 GTATCGGGTCCGGGAAAAAGAGGGGCACTGGCCAAAAGAGTGTCCGATAGGATCGTTTCAGG
 CCGCGTTGGCAGACTTGACCGAGCAATATAATGAGCATAGGGGAGCAAGTGCGTACGCCT
 TACACCATGACTATGGGGGATTCCATTGTATTACAACAAACGCGTACGGGAGCGCTTCG
 ATGCCACTAAAGGGGCTGGCGTGTTCGCCGTCCTTTTAAAGGCATTGGGCAGCTGCAG
 CTGCCCTCCGTGTATAATTACCCANAGCAGACCCTGTTCCAGCTTGGCACAGTTCAGAG
 TACAGCCCTGGCCAGTCACCTCACCTCCACTTTTCTCGATACCA

3' Read Nucleotide

Sequence:

>OriGene 3' read for NM_002896 unedited
 CGGCCCAATCTAGAGTCGAGNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTTTAAAGGGGAAAAACCTTTTTTTTTTCCCGGAAAAAAA
 AAAAGGGACCAACTTTTTAGGGTTAGCCTTTGGACCAAAAAAAACCTGGAGCAGGGA
 AACTTTCACCAAGGGCTTTCCAAATCCAACACCCCGAGGAGCAGGAGGCAGGAGGAA
 ACAGCACACCCCCACACAGTTTTTGCACACAATGGGGCTGGTGGGAAAAAAACAT
 GAAGGGGAACCTCCAAAAGTTTGGAGGACAAAAAACAGGAAATGGGCCGGAAAGGAA
 AGGAAAGGAAAGGAAAAAAGGTCTTAACCTAACAAAGGAAATTAAGGGCCACGGTTCCT
 GAGGGACTGAACCCACAAGCCGAAACGTCGCCGAAATGGGTACCACAAAGGGGTAT
 TCTCATGCACAACCGAGCTCGGAATTTAGCCCCACACATCCACCTCAAGCTTTAAAA
 GGCTGAGTACCGCGCCCGATCGGATACTGCTCCGCTCATACCGGGCCATTGTNGAACA
 GAGAATTCGCGCGGTTGCTGAAAGCTTGGGACAATCTCACCTCTCATGCCCGTACCC
 GGTAACCCCTTCTTCAACAGGGGGGACTGGGGCTTGAACCCGACCCAGGGGGGCC
 CTCCATCCCCCGGTAATATGAAGTTGGAACGCTGAAATAAACACAAACCAAGGTTG
 CTGTGTGAAACAACACTGTGGCAACAACTCCTGAGGTCCGCAACAAGGTTTATCTTAA
 GGATCCCAAAAAGTGGGGGNGAGGGGACCGGCATGGTTTTATTCTTGACTTGGGGCAC
 CTGGGAAAGGGTTCTTCTGCNTATATTAACGGGAGAGGTGGAGGTGCCACTGCCTTAA
 GAACGGGCAACCGGAACCTCTGAAAGCCTCAAGCCCTCCACCCCTGTTTAAACACGA
 ACCCTACTTGGGTAAGGCGCCCTGTCCCTTGCATATATTGTCGCAAC

Restriction Sites:

NotI-NotI

ACCN:

NM_002896

Insert Size:

1830 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components:

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_002896.1 , NP_002887.1
RefSeq Size:	1620 bp
RefSeq ORF:	1101 bp
Locus ID:	5936
UniProt ID:	Q9BWF3
Cytogenetics:	11q13.2
Domains:	RRM, zf-CCHC
Protein Families:	Druggable Genome
Gene 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 PTBPI 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] Transcript Variant: This variant (1) encodes the longest isoform (1).