

Product datasheet for **SC127322**

RBM4 (AL832566) 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-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AL832566, the custom clone sequence may differ by one or more nucleotides

ATGGTGAAGCTGTTTCATCGGAAACCTGCCCGGGAGGCTACAGAGCAGGAGATTCGCTCACTCTTCGAGC
AGTATGGGAAGGTGCTGGAATGTGACATCATTAAGAATTACGGCTTTGTGCACATAGAAGACAAGACGGC
AGCTGAGGATGCCATACGCAACCTGCACCATTACAAGCTTCATGGGGTGAACATCAACGTGGAAGCCAGC
AAGAATAAGAGCAAAACCTCAACAAAGTTGCATGTGGGCAACATCAGTCCCACCTGCACCAATAAGGAGC
TTCGAGCCAAGTTTGAGGAGTATGGTCCGGTCATCGAATGTGACATCGTGAAAGATTATGCCTTCGTACA
CATGGAGCGGGCAGAGGATGCAGTGGAGGCCATCAGGGCCTTGATAACACAGAGTTTCAAGGTGAACCA
CCCTCTTTGGGTAGAGGGCTGAACACAAGGCTGTGTGCAGAAAATGGTTGGATAAGTAAAAGGAGAGGTT
TGGTAAAGATAACAGCTGTTGGCTGGCTGGTGATGAAGAAATAA



5' Read Nucleotide Sequence:	>OriGene 5' read for AL832566 unedited GTCAAAATTTGTATACGACTCCTATAGGCGGCCGCGNAATTCGCACGAGGGCCGCGAGGA GGAGGCCCTGCTGGTTTCTGTGCGGGCTTTGTGAGGATGGTGAAGCTGTTTCATCGGAAA CCTGCCCGGGGAGGCTACAGAGCAGGAGATTTCGCTCACTCTTCGAGCAGTATGGGAAGGT GCTGGAATGTGACATCATTAAAGAATTACGGCTTTGTGCACATAGAAGACAAGACGGCAGC TGAGGATGCCATACGCAACCTGCACCATTACAAGCTTCATGGGGTGAACATCAACGTGGA AGCCAGCAAGAATAAGAGCAAAACCTCAACAAAGTTGCATGTGGGCAACATCAGTCCCAC CTGCACCAATAAGGAGCTTCGAGCCAAGTTTGAGGAGTATGGTCCGGTCATCGAATGTGA CATCGTGAAAGATTATGCCTTCGTACACATGGAGCGGGCAGAGGATGCAGTGGAGGCCAT CAGGGGCTTGATAACACAGAGTTTCAAGGTGAACCACCTCTTTGGGTAGAGGGCTGAA CACAAGGCTGTGTGCAGAAAATGGTTGGATAAGTAAAGGAGAGGTTTGGTAAAGATAAC AGCTGTTGGCTGGCTGGTGATGAAGAAATAAGTGTGGTGATGGACTTCTTATGATGTAG AATGCATGGGACTTANGGGCTNTACCTTANGCAAATGTCTCCTGGAGAAAGCCACTCACC TTTTATTTGGAGCCCTACGGCTTTTGTGCTTATCAGTGCAGAAACCTTTTCTTTGAGG CTTTCTGAGNTACTGGGCTTTNNTATTNNTATTNNTTGTAGAGAAGCCANTTTCAAA ATTCTACTCTGAAATTATTGCCTCAGCACAGACAGAATCTGCATTACGTGAAGACTCT CANAATGTGACGACCTTATAGACAGAATCTGGNTAACTGTCTACTACA
Restriction Sites:	NotI-NotI
ACCN:	AL832566
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:	AL832566.1 , CAH10593.1
RefSeq Size:	1883 bp
RefSeq ORF:	534 bp
Locus ID:	5936
Cytogenetics:	11q13.2

Domains:	RRM
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]