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Product datasheet for SC216295

RBM24 (NM_001143942) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	RBM24 (NM_001143942) Human 3' UTR Clone
Symbol:	RBM24
Synonyms:	dJ259A10.1; RNPC6
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_001143942
Insert Size:	1782 bp

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Insert Sequence:

>SC216295 3'UTR clone of NM_001143942
The sequence shown below is from the reference sequence of NM_001143942. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon Red=Cloning site

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CAGCAGCTGCAGACAGACCGAATGCAATAGACCAGCCATCTGATCAAAGTTGAATTGTTTTCTCTTTCC
CTCCCAATTTTCCAATTTTTAGTAGCTAATAAGAGAGTTAACATTGACTTAACAGCTTTAAAAAAAAAA
ACAGCCATGCTATTGTGAAGCAGAGTTATTATTTTTTTTATACTCCAGGTAGTGTTCTAGATGAGAAAG
AGGTAAGAATGAGGGGAATGGGCACAATTTTGGAAATCAATCCCAAAGAGCCTGAGTAAATGAAAGGCC
ACTACGAAATGACGCCAGGAGTAACAACGGAACTTCACTTTTGTAACGGGATTTTTATTTTTGCTCTTT
TTATAGTATCAGGGAAGCAAACTGCCTTTTACAAGTTAGAAAATGCTGTTTGAATCTAGTTGAACCAGG
GAATACAGAGCGAGCAATATGTAGCTTGAATTACATTTAAAAGCAGATTTTTTACAAACAAAATGGCGA
AAGCACTGATTGTCATTTTTAGCAGTCACTTAAGGCCTATAGAACTTTTTTCAAGTCGGAAGGTCCTGT
TCTTACTATCTCAAAAATGGGCATCGAACAATCAATCTAGGAGCGTGGCAGTGGGTAAAATGGTGGACA
GGCACCAAAGCTATTTTCTCATCTGTCCTGTGGATGAGTGGAACTGTGGAACAAGTGATGTGGAATTAA
TGGGTGCAACAGCTGTACAGACAATCAATAACACACACAGTTCTGGAAAGAACACATCACTTGTGCTTG
TTTGATGAGCTTGTCACATTCTAATCCCTCTCCCCATCCTGTTTCAATTTTGGGAAACTTGTATCTGCT
GGTGTCAGCAATTCTGATTCTGAAATAGGATCAGGCTTTTACTACAACAGCCTTCTCTTTCTATTTATT
GTGTCGACTCGTGGCTTATGAATAAAGGCAGGCAAAGTTTGCAGAACTGTCTTAAGGACATTTATTTTT
TTTCCCTTTTTAAGTAATTTTACACTTTAGTATCTATTTCAGAGTCATATTTAAAACTATTTATTAGTG
ACTACAGTACATGAGACAACAAGGTTACTGAGATTACAATTCTTCAAAGGTTAATGATAATGTGGTTTA
TACTGTGCCTTAATAGTAATGCTATTTAAGATATTTATTTTTAAGTTTTACTATGCTGCACTCTAAAGA
AAGGAACTTTAGATGTGACACTGTAAAATTATGTATTCATCTCATGGCATAAATTATTTAGTAAGTCTA
GATGTAGCGTATTAAATATTAACCTATTCAACTAAAGATGTTGACTTGGATTTATTTAAATTCATATGT
GCACTGTATAAGAGAGTACTCTTACATTAACACATTTTAGTTTAGTTTTTAGATTTTTTTTTAAACGAT
ATATTGCTAGTTTCATGCTTCCTCCTCTGATTTTGCCTGTGTAGATTTCATTTATTGGTAATTCATTAG
TTTAACACTATTATGTAGTTTTTAAATGCTGCTTTACATTTTTCTTCTGAAACTGCAATACTTGCAATT
TTTATTCTTAAACTAAATTGAATACTATTTTACACTGTATTGGATTTTTATACTTGAACAATTTCATAC
AAGGGAAGACAGGTTAGCATTTTTATGGACTTTCTCCATTATCACTGGATTTACTTTAAGTATTCCCAT
ACTAGACAGTGTTATGTAATGTAGACATGACTCTCCTGTGCAAATTATTTATTCGTTGTGTATATTGCT
TTATAACATTTCAGATCTTCTAATCTATTCACTTGTATTAAATATAATTTTTAAAAA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG

Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: NM_001143942.2

Summary: Multifunctional RNA-binding protein involved in the regulation of pre-mRNA splicing, mRNA stability and mRNA translation important for cell fate decision and differentiation (PubMed:20977548, PubMed:24375645, PubMed:29358667, PubMed:29104163). Plays a major role in pre-mRNA alternative splicing regulation (PubMed:26990106, PubMed:29104163). Mediates preferentially muscle-specific exon inclusion in numerous mRNAs important for striated cardiac and skeletal muscle cell differentiation (PubMed:29104163). Binds to intronic splicing enhancer (ISE) composed of stretches of GU-rich motifs localized in flanking intron of exon that will be included by alternative splicing (By similarity). Involved in embryonic stem cell (ESC) transition to cardiac cell differentiation by promoting pre-mRNA alternative splicing events of several pluripotency and/or differentiation genes (PubMed:26990106). Plays a role in the regulation of mRNA stability (PubMed:20977548, PubMed:24356969, PubMed:24375645, PubMed:29104163). Binds to 3'-untranslated region (UTR) AU-rich elements in target transcripts, such as CDKN1A and MYOG, leading to maintain their stabilities (PubMed:20977548, PubMed:24356969). Involved in myogenic differentiation by regulating MYOG levels (PubMed:20977548). Binds to multiple regions in the mRNA 3' UTR of TP63 isoform 2, hence inducing its destabilization (PubMed:24375645). Promotes also the destabilization of the CHRM2 mRNA via its binding to a region in the coding sequence (PubMed:29104163). Plays a role in the regulation of mRNA translation (PubMed:29358667). Mediates repression of p53/TP53 mRNA translation through its binding to U-rich element in the 3' UTR, hence preventing EIF4E from binding to p53/TP53 mRNA and translation initiation (PubMed:29358667). Binds to a huge amount of mRNAs (PubMed:29104163). Required for embryonic heart development, sarcomer and M-band formation in striated muscles (By similarity).[UniProtKB/Swiss-Prot Function]

Locus ID: 221662

MW: 70.1