

Product datasheet for RC226854

RBM24 (NM 001143941) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: RBM24 (NM_001143941) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: RBM24

Synonyms: dJ259A10.1; RNPC6

Mammalian Cell N

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC226854 representing NM_001143941
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTATGTATGTCTGTGTGTGTCTGTTGCTAAGGTCACCATGGCTGACCGGGCTGCCGAAAAGGGCCT
GCAAGGATCCCAATCCCATCATTGATGGCAGAAAGGCCAACGTGAACCTGGCATACTTAGGAGCAAAACC
AAGGATCATGCAACCAGGTTTTGCCTTTGGTGTTCAACAACTTCATCCAGCCCTTATACAAAGACCTTTC
GGGATACCTGCCCACTATGTCTATCCGCAGGCTTTTGTGCAGCCGGGAGTGGTCATTCCACACGTCCAGC
CGACAGCAGCTGCCGCCTCCACCACCCCTTACATTGATTACACTGGAGCTGCATACGCACAATACTCAGC
AGCTGCTGCTGCTGCCGCCGCCGCTGCTGCCTATGACCAGTACCCCTATGCAGCCTCCCAGCTGCTGCA
GGATATGTTACTGCTGGGGGCTATGGCTACGCAGTCCAGCAGCCAATCACCGCAGCGGCACCTGGGACAG
CTGCCGCCGCCGCCGCCGCTGCTGCCGCTGCAGCATTTGGCCAGTACCAGCCTCAGCAGCTGCAGAC

AGACCGAATGCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226854 representing NM_001143941

Red=Cloning site Green=Tags(s)

MYVCLCVSVAKVTMADRAAAERACKDPNPIIDGRKANVNLAYLGAKPRIMQPGFAFGVQQLHPALIQRPFGIPAHYVYPQAFVQPGVVIPHVQPTAAAASTTPYIDYTGAAYAQYSAAAAAAAAAAAYDQYPYAASPAAA

GYVTAGGYGYAVQQPITAAAPGTAAAAAAAAAAAAAAFGQYQPQQLQTDRMQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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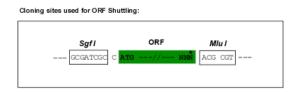
CN: techsupport@origene.cn

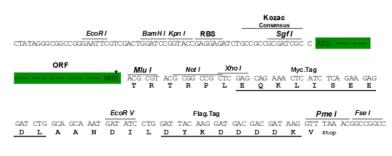
Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001143941

ORF Size: 576 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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.

RefSeq: NM 001143941.1, NP 001137413.1

RefSeq Size: 2451 bp
RefSeq ORF: 537 bp
Locus ID: 221662
UniProt ID: Q9BX46



Cytogenetics: 6p22.3

Protein Families: Druggable Genome

MW: 19.6 kDa

Gene 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

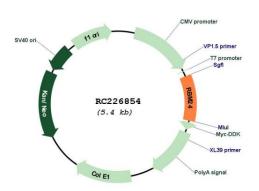
(PubMed:29104163). Binds to intronic splicing enhancer (ISE) composed of stretches of GUrich motifs localized in flanking intron of exon that will be included by alternative splicing (By similarity). Involved in embryonic stem cell (ESC) transition to cardiac cell differentiation by promoting pre-mRNA 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]

Product images:



Circular map for RC226854