

## Product datasheet for RC226826L4

RBM24 (NM\_001143942) Human Tagged Lenti ORF Clone

## Product data:

**Product Type:** Expression Plasmids

Tag: mGFP

**Symbol:** RBM24

**Synonyms:** dj259A10.1; RNPC6

## Mammalian Cell Puromycin

## Selection:

**Vector:** pLenti-C-mGFP-P2A-Puro (PS100093)

**E. coli Selection:** Chloramphenicol (34 ug/mL)

**ORF Nucleotide Sequence:** The ORF insert of this clone is exactly the same as(RC226826).

**Restriction Sites:** Sgfl-Mlul

### Cloning Scheme:

### Cloning sites used for ORF Shuttling:

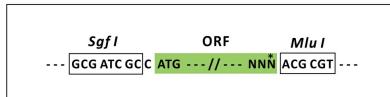


Diagram of the SV40 early promoter region showing transcription start sites and restriction enzyme cleavage sites. The RBS is located between the EcoRI and BamHI sites. The SgfI site is located downstream of the RBS. The Kozak Consensus sequence is indicated by a green box. The ORF is shown as a dashed line.

	<i>Mlu</i> I	<i>Not</i> I	<i>Xho</i> I	mGFP Tag	
NNN	ACG CGT T R	ACG CGG T R	CCG CTC P L	GAG E	ATG AGC GGG GGC M S G G - - -

--- --- GGA CTC AGA GTT TGG GTA GGA AGC  
- - G L R V

ACCN: NM\_001143842

ORF Size: 708 bp



[View online »](#)

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.

©2025 OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, USA

---

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_001143942.1</a>
<b>RefSeq ORF:</b>	711 bp
<b>Locus ID:</b>	221662
<b>UniProt ID:</b>	<a href="#">Q9BX46</a>
<b>Cytogenetics:</b>	6p22.3
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	24.6 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 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]

**Product images:**