

Product datasheet for **RR215957**

Rbm8a (NM_001271138) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rbm8a (NM_001271138) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rbm8a
Synonyms: Rbm8
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215957 representing NM_001271138
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGACGTGCTGGATCTTCACGAGGCCGGGGCGAGGATTCGCCATGGATGAGGATGGTGACGAAA
 GCATCCACAACTAAAAGAAAAAGCGAAGAAACGGAAGGGCCGGTTTTGGTTCTGAAGAGGGTCCCG
 AGCGCGGATGCGGAAGATTATGACAGTGTGGAGCAGGATGGCGATGAACCTGGACCACAGCGCTCTGTT
 GAAGGTTGGATTCTTTGTCACTGGAGTCCACGAAGAAGCCACTGAAGAAGATATCCATGACAAGTTCC
 CTGAATATGGGAAATAAAAAATATCCACCTGAATTTGGACAGGCGCACGGGATACTTGAAGGGTATAC
 TCTAGTTGAGTATGAAACATACAAAGAAGCTCAGGCTGCCATGGAGGGACTAAATGGTCAAGATTTGATG
 GGACAGCCAATCAGTGTGACTGGTGTGTTTGTTCGTGGTCCACCAAGGGCAAGAGGAGAGGTGGCCGAA
 GACGAAGCAGGAGTCCAGACCGAAGACGCCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215957 representing NM_001271138
 Red=Cloning site Green=Tags(s)

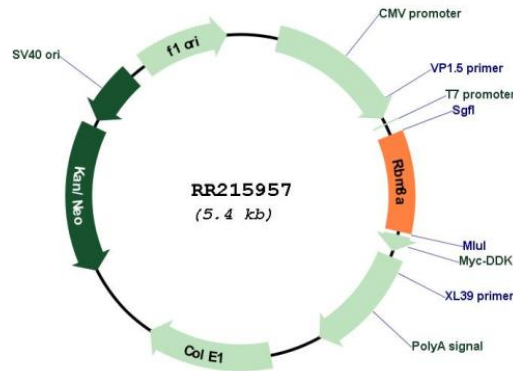
MADVLDLHEAGGEDFAMDEDGDSEIHKLKEKAKKRKGRGFGSEEGSRARMREDYDSVEQDGPQPQRSV
 EGWILFVTGVHEEATEEDIHDKFAEYGEIKNIHLNDRRTGYLKGTYLVEYETYKEAQAAMEGLNGQDLM
 GQPIISVDWCFVRGPPKGRRRGRRRSRSPDRRRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001271138

ORF Size: 522 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:	<ol style="list-style-type: none">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:	<u>NM_001271138.1</u> , <u>NP_001258067.1</u>
RefSeq Size:	1486 bp
RefSeq ORF:	525 bp
Locus ID:	295284
UniProt ID:	<u>Q27W01</u>
Cytogenetics:	2q34
MW:	19.9 kDa
Gene Summary:	Required for pre-mRNA splicing as component of the spliceosome (By similarity). Core component of the splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junctions on mRNAs. The EJC is a dynamic structure consisting of core proteins and several peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. The EJC marks the position of the exon-exon junction in the mature mRNA for the gene expression machinery and the core components remain bound to spliced mRNAs throughout all stages of mRNA metabolism thereby influencing downstream processes including nuclear mRNA export, subcellular mRNA localization, translation efficiency and nonsense-mediated mRNA decay (NMD). Its removal from cytoplasmic mRNAs requires translation initiation from EJC-bearing spliced mRNAs. Associates preferentially with mRNAs produced by splicing. Does not interact with pre-mRNAs, introns, or mRNAs produced from intronless cDNAs. Associates with both nuclear mRNAs and newly exported cytoplasmic mRNAs (By similarity). [UniProtKB/Swiss-Prot Function]