

Product datasheet for **RR201838**

Rbm22 (NM_001025676) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Rbm22 (NM_001025676) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Rbm22
 Synonyms: MGC116134
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR201838 representing NM_001025676
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGACTTCTCTGGTTCACACTTACAACAGGCAGAACTGGGAGGACGCGGACTTCCCCATTCTGT
 GTCAGACGTGTCTTGGAGAAAACCCCTTATACGAATGACCAAAGAAAAATGGAAAAGAAATGCAAAAT
 CTGTGCCAGGCCATTACAGTATTTTCGATGGTGCCTGGGGTCCGCATGCGCTTCAAGAAGACTGAAGTG
 TGCCAGACCTGCAGTAAATTGAAGAATGTTTGTGACAGCTGCCTGTTAGACCTAGAGTACGGCCTACCCA
 TCCAGGTCCGTGATGCAGGGTATCATTAAAGATGACATGCCTAAATCAGATGTCAATAAAGAATATTA
 CACCCAAAATATGGAAAGAGAAATTTCTAACTCTGATGGAACACGGCCAGTCGGAATGCTGGGAAAAGCA
 ACATCCACTAGTGACATGCTACTCAAATGGCCCGGACCACACCTTACTACAAAAGGAATCGGCCCCACA
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 CGATCCAGATGACCCTCTTGCTGATCAGAATATAAAGACCGGTACTATGGAATTAACGACCCTGTGGCT
 GATAAGCTTCTCAAGCGGGCTTCAACCATGCCTCGTCTTGACCCACGGAGGATAAGACGATCACCACAC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
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Protein Sequence: >RR201838 representing NM_001025676
Red=Cloning site Green=Tags(s)

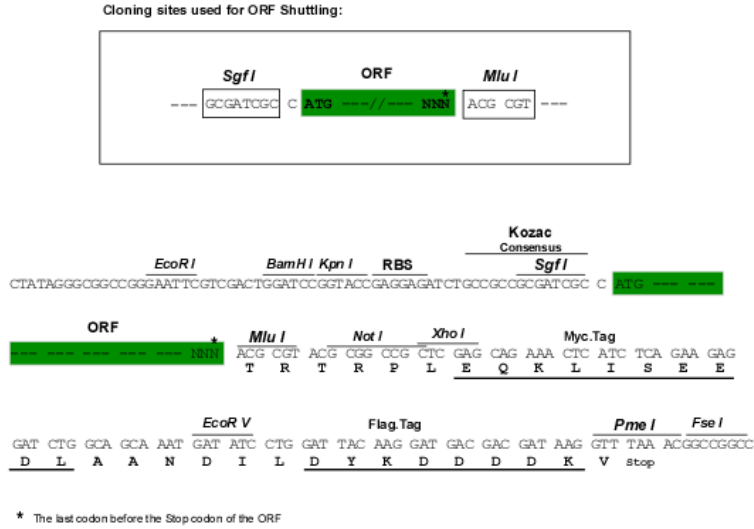
MATSLGSNTYNRQNWEDADFPILCQTCLGENPYIRMTKEKYGKECKICARPFTVFRWCPGVRMRFKKTEV
 CQTC SKLKNVCQTCLLDLEYGLPIQVRDAGLSFKDDMPKSDVNKEYYTQNMEREISNSDGTTRPVGMLGKA
 TSTDMLLKLARTTPYYKRNRPHICSFVWKGECKRGECEPYRHEKPTDPDDPLADQNIKDRYYGINDPVA
 DKLLKRASMPRLDPPEDKTITTLVYVGLGDTITETDLRNHFYQFGEIRTVTVVQRQCAF IQFATRQAA
 EVAAEKSFNKLIVNGRRLLNVKWGRSQAARGKEKEKDGTDTDSGIKLEPVPLPGALPPPPAAEEEEASANYF
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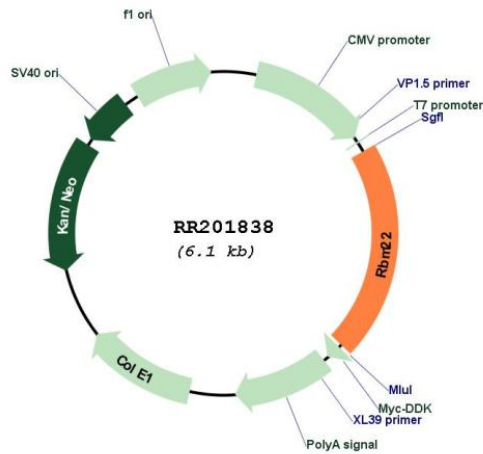
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001025676

ORF Size:	1260 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:	NM_001025676.1 , NP_001020847.1
RefSeq Size:	1725 bp
RefSeq ORF:	1263 bp
Locus ID:	307410
UniProt ID:	Q4V7D7
Cytogenetics:	18q12.1
MW:	46.9 kDa
Gene Summary:	Required for pre-mRNA splicing as component of the activated spliceosome. Involved in the first step of pre-mRNA splicing. Binds directly to the internal stem-loop (ISL) domain of the U6 snRNA and to the pre-mRNA intron near the 5' splice site during the activation and catalytic phases of the spliceosome cycle. Involved in both translocations of the nuclear SLU7 to the cytoplasm and the cytosolic calcium-binding protein PDCD6 to the nucleus upon cellular stress responses.[UniProtKB/Swiss-Prot Function]