

Product datasheet for **RC206461**

RBM7 (NM_016090) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RBM7 (NM_016090) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RBM7
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC206461 representing NM_016090
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGCGGGCGGCCGGAAGCGGATCGCACTCTCTTTGTGGGCAACCTTGAAACGAAAGTGACCGAGG
AGCTCCTTTTCGAGCTTTCCACCAGGCTGGGCCAGTAATAAAGGTGAAAATCCAAAAGATAAGGATGG
TAAACCAAGCAGTTTGCCTTTGTGAATTTCAAACATGAAGTGTCTGTTTCCTTATGCAATGAATCTACTT
AATGGAATCAAATTTATGGAAGGCCTATCAAATTTCAATTTAGATCAGGAAGTAGTCATGCCCCACAAG
ATGTCAGTTTGCATATCCCCAACATCATGTTGGAAATTCAGCCCTACCTCCACATCTCCTAGCAGGTA
CGAAAGGACTATGGATAACATGACTTCATCAGCACAGATAATTCAGAGATCTTTCTTTCTCCAGAAAAT
TTTCAGAGACAAGCAGTGATGAACAGTGCTTTGAGACAAATGTCATATGGTGGAAAATTTGGTTCTTCAC
CTCTGGATCAATCAGGATTTTCACCATCAGTTCAATCACACAGTCATAGTTTCAATCAGTCTTCAAGCTC
CCAGTGGCGCCAAGGTACACCATCATCACAGCGTAAAGTCAGAATGAATTCCTTATCCCTACCTAGCAGAT
AGACATTATAGCCGGGAACAGCGTTACTGATCATGGGTCTGACCATCATTACAGAGGAAAAGAGAGATG
ATTTCTTCTATGAAGACAGGAATCATGATGACTGGAGCCATGACTATGATAACAGAAGAGACAGTAGTAG
AGATGAAAATGGCGCTCATCTCGACAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206461 representing NM_016090
 Red=Cloning site Green=Tags(s)

MGAAAAEADRTL FVGNLETKVTEELL FELFHQAGPVIKVKIPKDKDGKPKQFAFVNFKHEVSVPYAMNLL
 NGIKLYGRPIKI QFRSGSSHAPQDVSL SYPQHVGNSSPTSTSPSR YERTMDNMTSSAQI IQRSFSSPEN
 FQRQAVMNSALRQMSYGGKFGSSPLDQSGFSPSVQSHSHSFNQSSSSQWRQGT PSSHQRKVRMNSYPYLAD
 RHYSREQRYTDHGSDDHHYRGKRDDFFYEDRNHDDWSDYDNRDSSRDGKWRSSRH

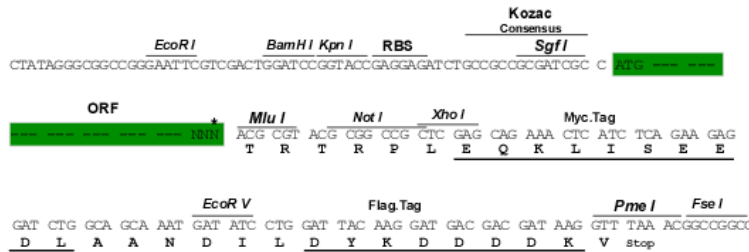
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1495_a06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_016090

ORF Size: 798 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_016090.4](#)

RefSeq Size: 2025 bp

RefSeq ORF: 801 bp

Locus ID: 10179

UniProt ID: [Q9Y580](#)

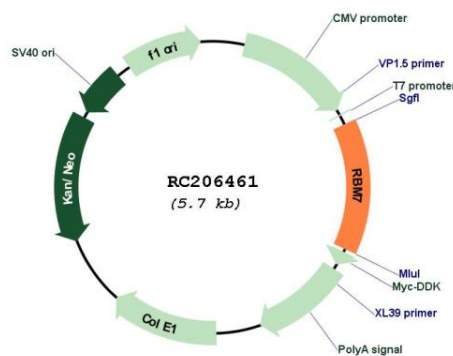
Cytogenetics: 11q23.2

Domains: RRM

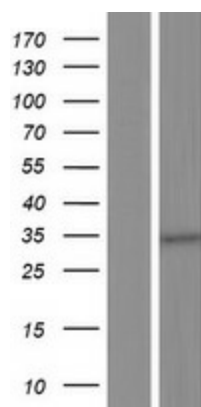
MW: 30.3 kDa

Gene Summary: Subunit of the trimeric nuclear exosome targeting (NEXT) complex, a complex that directs a subset of non-coding short-lived RNAs for exosomal degradation. The RNA exosome is fundamental for the degradation of RNA in eukaryotic nuclei. Substrate targeting is facilitated by its cofactor MTREX, which links to RNA-binding protein adapters (PubMed:27871484). Possible involved in germ cell RNA processing and meiosis (Probable).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC206461



Western blot validation of overexpression lysate (Cat# [LY414195]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206461 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).