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Product datasheet for RG206461

RBM7 (NM_016090) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RBM7 (NM_016090) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RBM7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG206461 representing NM_016090
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGCGGCGGCGGCGGAAGCGGATCGCACTCTCTTTGTGGGCAACCTTGAAACGAAAGTGACCGAGG
AGCTCCTTTTCGAGCTTTTCCACCAGGCTGGGCCAGTAATAAAGGTGAAAATTCCAAAAGATAAGGATGG
TAAACCAAAGCAGTTTGCGTTTGTGAATTTCAAACATGAAGTGTCTGTTCCTTATGCAATGAATCTACTT
AATGGAATCAAACTTTATGGAAGGCCTATCAAAATTCAATTTAGATCAGGAAGTAGTCATGCCCCACAAG
ATGTCAGTTTGTCATATCCCCAACATCATGTTGGAAATTCAAGCCCTACCTCCACATCTCCTAGCAGGTA
CGAAAGGACTATGGATAACATGACTTCATCAGCACAGATAATTCAGAGATCTTTCTCTTCTCCAGAAAAT
TTTCAGAGACAAGCAGTGATGAACAGTGCTTTGAGACAAATGTCATATGGTGGAAAATTTGGTTCTTCAC
CTCTGGATCAATCAGGATTTTCACCATCAGTTCAATCACACAGTCATAGTTTCAATCAGTCTTCAAGCTC
CCAGTGGCGCCAAGGTACACCATCATCACAGCGTAAAGTCAGAATGAATTCTTATCCCTACCTAGCAGAT
AGACATTATAGCCGGGAACAGCGTTACACTGATCATGGGTCTGACCATCATTACAGAGGAAAGAGAGATG
ATTTCTTCTATGAAGACAGGAATCATGATGACTGGAGCCATGACTATGATAACAGAAGAGACAGTAGTAG
AGATGGAAAATGGCGCTCATCTCGACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

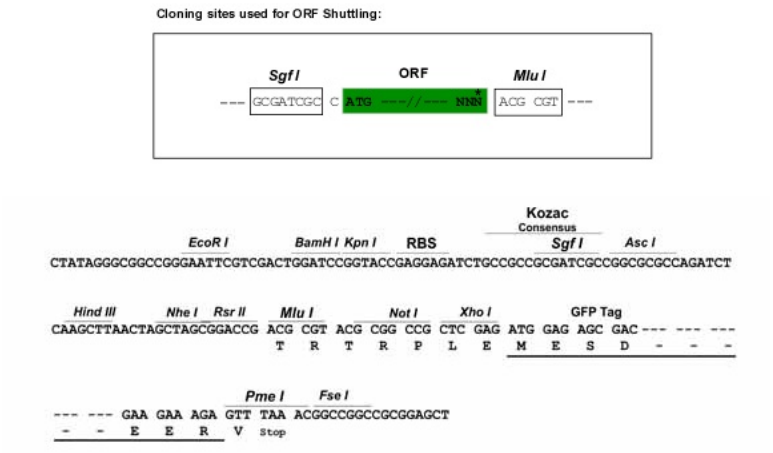
>RG206461 representing NM_016090
Red=Cloning site Green=Tags(s)

MGAAAAEADRTLFVGNLETKVTEELLFELFHQAGPVIKVKIPKDKDGKPKQFAFVNFKHEVSVPYAMNLL
NGIKLYGRPIKIQFRSGSSHAPQDVSLSYPQHHVGNSSPTSTSPSRYERTMDNMTSSAQIIQRSFSSPEN
FQRQAVMNSALRQMSYGGKFGSSPLDQSGFSPSVQSHSHSFNQSSSSQWRQGTPSSQRKVRMNSYPYLAD
RHYSREQRYTDHGSDHHYRGKRDDFFYEDRNHDDWSHDYDNRRDSSRDGKWRSSRH

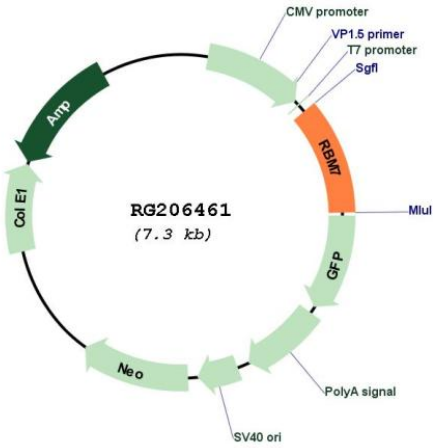
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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.
RefSeq:	NM_016090.4
RefSeq Size:	2025 bp
RefSeq ORF:	801 bp
Locus ID:	10179
UniProt ID:	Q9Y580
Cytogenetics:	11q23.2
Domains:	RRM
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]