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Product datasheet for RR214568

Rbm12 (NM_001037657) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbm12 (NM_001037657) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rbm12
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR214568 representing NM_001037657 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCTGTGGTCATCCGTTTGCAAGGTCTCCCAATTGTGGCGGGGACCATGGACATTCGCCACTTCTTCT CTGGATTGACCATCCCCGATGGGGGCGTGCATATTGTAGGGGGTGAACTGGGTGAGGCTTTCATCGTTTT TGCCACTGATGAAGATGCAAGGCTTGGTATGATGCGCACAGGTGGTACAATTAAAGGGTCGAAAGTAACA CTGTTGTTGAGTAGTAAAACAGAAATGCAGAATATGATTGAACTGAGTCGTAGGCGTTTTGAAACTGCCA ACTTAGATATACCACCAGCAAATGCTAGTAGATCAGGACCGCCACCTAGCTCAGGGATGAGCAGCAGGGT AAACTTGCCAGCAACAGTACCCAGCTTTAATAATCCTTCGCCAAGTGTAGTAACTGCTACCACTTCTGTT CATGAGAGCAACAAAAGCATACAAACGTTTTCCACAGCCAGCGTAGGAACTGCTCCTCCAAGTATGGGGA CTTCTTTTGGGAGTCCAACGTTCAGCTCAACCATTCCAAGTACAGCTTCTCCAATGAACACAGTCCCACC ACCACCAATTCCTCCAATCCCATCGATGCCATCTTTGCCACCGCTGCCATCCATTCCCCCAATACCAGTT CCTCCTCCGGTACCAACGTTGCCTCCTGTGCCACCTGTTCCTCCCATTCCCCCAGTCCCTTCTGTGCCAC CTATGACCACATTGCCTCCCATATCAGGCATGCCACCCTTGAATCCACCACCTGTGGCACCTCTACCTAC TGGAATGAATGGCTCTGGAGCACCTATAAGTCTGAACAATAATCTGAACCCTGTGTTTCTGGGTCCATTA AATCCTGTTAACCCTATACAGATGAACTCTCAAAGCAGCGTGAAGTCTCTTCCCATCAACCCTGATGATC TATATGTGAGTGTTCATGGAATGCCCTTTTCTGCAATGGAAAATGATGTCAGAGAGTTTTTCCATGGGCT CCGAGTTGATGCAGTGCATTTGTTAAAAGATCATGTAGGGCGAAATAATGGGAATGGATTGGTTAAGTTT CTCTCCCCTCAAGATACATTTGAAGCTTTGAAACGGAACAGAATGCTGATGATTCAACGCTATGTGGAAG TCAGTCCTGCCACAGAGAGACAGTGGGTAGCTGCTGGAGGTCATATCACTTTTAAGCAAAGTATGGGGCC TTCTGGACAAGCCCACCCTCCTCCACAGACACTTCCAAGGTCAAAATCGCCCAGTGGGCAGAAAAGGTCA AGATCAAGATCACCTCATGAGGCTGGTTTTTGTGTTTACTTAAAAGGGCTACCCTTTGAAGCAGAAAACA AACATGTCATTGATTTTTTTAAGAAGTTGGATATTGTGGAAGATAGTATTTATATAGCTTATGGACCCAA TGGGAAAGCAACTGGTGAAGGCTTTGTAGAGTTCAGGAATGATGCTGACTATAAGGCTGCTCTCTGTCGT CATAAACAGTACATGGGCAATCGCTTTATTCAAGTTCATCCAATAACTAAGAAAGGTATGCTAGAAAAGA TAGATATGATTCGAAAACGACTTCAGAACTTCAGCTATGACCAGAGGGAAATGGTGTTAAATCCGGAGGG GGAAGTCAGTTCTGCCAAAGTCTGTGCCCATATAACAAACATTCCATTCAGCATTACCAAGATGGATGTT

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ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214568 representing NM_001037657
Red=Cloning site Green=Tags(s)

MAVVIRLQGLPIVAGTMDIRHFFSGLTIPDGGVHIVGGELGEAFIVFATDEDARLGMMRTGGTIKGSKVT
LLLSSKTEMQNMIELSRRRFETANLDIPPANASRSGPPPSSGMSSRVNLPATVPSFNNPSPSVVTATTSV
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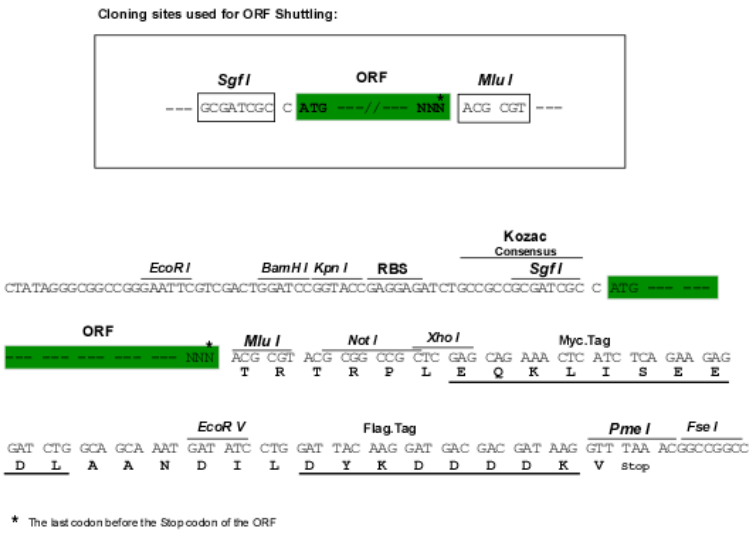
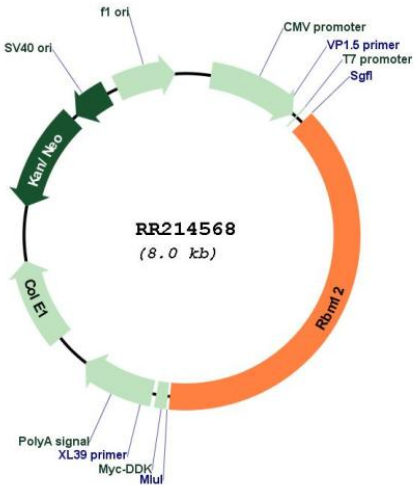
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001037657

ORF Size: 3096 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_001037657.1, NP_001032746.1
RefSeq Size:	3822 bp
RefSeq ORF:	3099 bp
Locus ID:	652928
Cytogenetics:	3q42
MW:	106.3 kDa
Gene Summary:	Calcium-dependent phospholipid-binding protein that plays a role in calcium-mediated intracellular processes. Involved in the TNF-alpha receptor signaling pathway in a calcium-dependent manner. Exhibits calcium-dependent phospholipid binding properties. Plays a role in neuronal progenitor cell differentiation; induces neurite outgrowth via a AKT-dependent signaling cascade and calcium-independent manner. May recruit target proteins to the cell membrane in a calcium-dependent manner. May function in membrane trafficking. Involved in TNF-alpha-induced NF-kappa-B transcriptional repression by inducing endoprotease processing of the transcription factor NF-kappa-B p65/RELA subunit. Also induces endoprotease processing of NF-kappa-B p50/NFKB1, p52/NFKB2, RELB and REL. [UniProtKB/Swiss-Prot Function]