

## Product datasheet for **RN214568**

### Rbm12 (NM\_001037657) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rbm12 (NM_001037657) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rbm12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN214568 representing NM_001037657 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGTGGTCATCCGTTTGAAGGTCTCCCAATTGTGGCGGGGACCATGGACATTCGCCACTTCTTCT  
CTGGATTGACCATCCCCGATGGGGCGTGCATATTGTAGGGGGTGAACGGGTGAGGCTTTCATCGTTTT  
TGCCACTGATGAAGATGCAAGGCTTGGTATGATGCGCACAGGTGGTACAATTAAGGGTCGAAAGTAACA  
CTGTTGTTGAGTAGTAAAACAGAAATGCAGAATATGATTGAACAGTGTAGCGTAGGCGTTTTGAAACTGCCA  
ACTTAGATACCACCAGCAATGCTAGATCAGGACAGCCACCTAGCTCAGGGATGAGCAGCAGGGT  
AAACTTGCCAGCAACAGTACCCAGCTTTAATAATCCTTCGCCAAGTGTAGTAACTGCTACCACTTCTGTT  
CATGAGAGCAACAAAAGCATACAACGTTTTCCACAGCCAGCGTAGGAACTGCTCCTCCAAGTATGGGGA  
CTTCTTTTGGGAGTCCAACGTTCAAGTCAACCATTCCAAGTACAGCTTCTCCAATGAACACAGTCCCACC  
ACCACCAATTCTCCAATCCCATCGATGCCATCTTGGCCACCGCTGCCATCCATCCCCCAATACCAGTT  
CCTCCTCCGGTACCAACGTTGCCCTGTGCCACCTGTTCTCCATTCCCCAGTCCCTCTGTGCCAC  
CTATGACCACATTGCCTCCCATATCAGGCATGCCACCCTGAATCCACCACCTGTGGCACCTCTACCTAC  
TGAATGAATGGCTCTGGAGCACCTATAAGTCTGAACAATAATCTGAACCCTGTGTTTCTGGGTCCATTA  
AATCCTGTAAACCCTATACAGATGAACCTCAAAGCAGCGTGAAGTCTTCCCATCAACCCTGATGATC  
TATATGTGAGTGTTCATGGAATGCCTTTTCTGCAATGGAATAATGATGTCAGAGAGTTTTCCATGGGCT  
CCGAGTTGATGCAGTGCATTTGTTAAAAGATCATGTAGGGCGAAATAATGGGAATGGATTGGTTAAGTTT  
CTCTCCCCTCAAGATACATTTGAAGCTTTGAAACGGAACAGAATGCTGATGATTCAACGCTATGTGGAAG  
TCAGTCTGCCACAGAGAGACAGTGGGTAGCTGCTGGAGGTCAATCACTTTTAAGCAAAGTATGGGGCC  
TTCTGGACAAGCCCACCTCCTCCACAGACACTCCAAGTCAAATCGCCAGTGGGCAGAAAAGGTCA  
AGATCAAGATCACCTCATGAGGCTGTTTTTGTGTTTACTTAAAAGGGTACCCTTTGAAGCAGAAAACA  
TGGGAAAGCAACTGGTGAAGCTTTGTAGAGTTCAGGAATGATGCTACTATAAGGCTGCTCTCTGTCCG  
CATAAACAGTACATGGGCAATCGTTTTATTCAAGTTCATCCAATAACTAAGAAAGGTATGCTAGAAAAGA  
TAGATATGATTGAAAACGACTTCAGAACTTCAGCTATGACCAGAGGGAATGGTGTAAATCCGGAGGG



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GGAAGTCAGTTCTGCCAAAGTCTGTGCCCATATAACAAACATTCCATTACGATTACCAAGATGGATGTT  
 CTTACAGTTCTAGAAAGGAATCCCAGTGGATGAGAATGCTGTACATGTTCTTGTGATAACAATGGGCAAG  
 GTCTAGGGCAAGCATTGGTTTCAGTTTAAACTGAAGACGATGCACATAAATCTGAACACTTACACCGTAA  
 AAAACTGAATGGGAGAGAAGCTTTTGTTCATATAGTTACCTAGAAGATATGAGAGAGATTGAGAAAAAC  
 CCCCCAGCCAAAGGAAAAAGGGCTTAAAGATACCTGTTCCAGGTAATCCTGCAGTACCAGTGATACCCA  
 GTGCAGGGATGCCCGCTGCTGGGATACCCAGTGCCTGGGATACCCAGTGCAGGGATACCCAGTGCCTGGAAT  
 CCTAGTGCCTGGAATGCCTAGTGCAGGGTTGCCTGCTGGGTTGCCTGCTGGGTTGCCTGCTGGCTCT  
 GGAATGCCTGGCTCTGGAATGCCTGGCTCTGGAATACCGGGTCCCGGAATACCCGGTCTGGAATACCCG  
 GTCCCGGAATACCTGGTCTGGAATGCCCGGTCTGGAATACCGGGTCCCGGAATACCCGGTCCCGGAAT  
 ACCTGGTGCCCGAATACCTGGTCCCAATGCCTGGTCCCGCAATGCCTGGTCCCTCAATGCCTGGTCCC  
 GCAATGCCTGGTCCCGCAATGCCTGGTCCCGCAATGCCTGGACCAGCAATACCCGGTCCCGCACTGCCTG  
 GACCAGCAATACCTGGTCTGGCATCCCCAGTGCAGGAGGAGAAGAGCATGCTTCTTGACTGTAGGATC  
 AAAGGAGGCCAATAATGGGCCACCATTTAACTTCCCTGGTAATTTGGTGGGCCCAATGCTTTGGGCCA  
 CCACTCCCCCTCCAGGATTAGGGGGCGCTTTGGTGATGTTAGGCCTGTTATGCCTTCGGTTGGAATA  
 GTGGTTTGCCTGGCTAGGACTGGAAGTCCAGGTTTTGGAGGTGCACCAATAATAAGTGGGCCATC  
 AGGATTTGGGGGATTCCCTCAGAACTTTGAAAATGGCCAGGTAGTTTAAATGCTCCTCCTGGTTTTGGA  
 AATGGACCCCTGGTCTTGAAGTGTTCCTAGTCATTTAAGTGGGCCCTCCAGCCTTTGGGCTGGCCCTG  
 GGCTGGGCCGATCCATATTGGGGTCCCCTGGCTTTGGAGCCAGCTCTGAAAACCAGGACCTACAAT  
 AATTAAGTGCAGAACATGCCTTTACTGTATCTATTGATGAAATTTTAGATTTCTTTATGGTTATCAA  
 GTAATTCAGGTTTCAGTATGTTTAAAATACAATGAAAAGGTATGCCTACAGGTGAAGCCATGGTGGCT  
 TTGAATCTCGGGATGAAGCCACAGCTGCTGTATTGACTTAAATGATAGGCCTATAGGTTCTAGAAAGGT  
 AAAACTCGTTCTAGGGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001037657
- Insert Size:** 3099 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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

**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]