

## Product datasheet for **MC218569**

### **Rbbp5 (NM\_172517) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rbbp5 (NM_172517) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rbbp5
Synonyms:	4933411J24Rik; C330016J05
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC218569 representing NM\_172517  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAACCTCGAGTTGCTGGAGTCTTTGGACAGAACTACCCAGAGGAAGCTGATGGGACTCTGGACTGCA  
 TCAGCATGGCCCTGACCTGCACCTTTAACAGGTGGGGCAGACTGCTTGTGTTGGCTGTAACGATGGCCG  
 GATTGTTATTTGGGATTTCTTGACCAGAGCATTGCTAAAATAATTAGTGCACACATCCATCCAGTCTGT  
 TCTTTGTGTTGGAGCCGAGATGGTCATAAGCTTGTGAGTGCTTCTACAGATAACATAGTGTACAGTGGG  
 ATGTTCTTTCAGGAGATTGCGACCAGAGGTTTCGATTCCCTTACCCATCTTAAAAGTCCAATATCATCC  
 TCGAGATCAGAACAAGGTTCTCGTGTGCCATGAAATCTGCTCCTGTCATGTTGACCCTTTCAGATTCC  
 AAACATGTTGTTCTGCCGTAGACGATGACTCGGATTTGAACGTGGTGGCATCTTTTGATAGCGAGGGG  
 AATATATTTATACAGGAAATGCAAAAGGCAAGATCTTGGTCTAAAACAGACTCTCAGGATCTTGTTC  
 TTCCTTCAGAGTAACAAGTGGGACAAGCAATACTACCGCCATTAATCAATTGAGTTGCCCGAAGGGG  
 AGTTGCTTCTGATTAACACAGCAGATCGAATAATAAGAGTCTATGACGGCAGAGAGATTTAACGTGTG  
 GAAGGGATGGAGAGCCAGAGCCTATGCAGAAGCTGCAGGACTTGGTGAATAGGACTCCATGGAAAAATG  
 TTGTTTCTCTGGGGATGGGGAGTACATAGTGGCGGGCTCTGCGAGGCAGCATGCGCTGTATATCTGGGAA  
 AAGAGCATTGGCAACCTGGTGAAGATCTTACATGGGACCAGAGGGGAACTCCTGCTGGACGTGGCTTGGC  
 ATCCAGTCCGACCATCATAGCTTCTATCTCTAGTGGAGTGGTGTCCATTTGGGCCCAAAATCAAGTAGA  
 AAATTTGAGTGCATTTGCACCAGACTTCAAAGAGTTGGATGAAAATGTAGAATATGAGGAAAGAGAATCA  
 GAATTTGATATTGAGGATGAAGATAAGAGTGAGCCTGAGCAAACAGGGGCTGATGCTGCTGAAGATGAGG  
 AAGTGGATGTCACCAGCGTGGATCCCCTGCTTCTGTAGCAGTGATGAAGAGCTGGAAGATTCAAA  
 GGCTCTATTGTATTTACCCATTGCCCTGAGGTAGAAGACCCTGAAGAAAACCCGTATGGCCCTCCACCG  
 GATGCAGTCCCAAGCTCCTTGATGGATGAAGGGGCTAGTTCAGAGAAGAAGAGGCAGTCTTCAGCAGATG  
 GATCCCAGCCACCAAGAAGAACTTAAACCACCAATATAGAGCTCCAAGGAGTGCCGAATGATGAAGT  
 CCATCCACTACTGGGTGTGAAGGGGATGGCAAATCCAAGAAGAAGCAAGCAGGCCGGCCTAAAGGATCA  
 AAAGGTAAGAGAAAGATTCTCCATTTAAACCGAAACTCTACAAAGGGGACAGAGGTTTACCTCTGGAAG  
 GATCAACGAAGGGTAAAGTGCAGGCGGAACTCAGCCAGTCTTGGCAGCAGGAGGAGCCATCTCAGAAGT  
 GCTGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1606\\_b02.zip](https://cdn.origene.com/chromatograms/ja1606_b02.zip)

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_172517

**Insert Size:** 1617 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\\_172517.2](#), [NP\\_766105.2](#)

**RefSeq Size:** 3632 bp

**RefSeq ORF:** 1617 bp

**Locus ID:** 213464

**UniProt ID:** [Q8BX09](#)

**Cytogenetics:** 1 E4

**Gene Summary:** As part of the MLL1/MLL complex, involved in mono-, di- and trimethylation at 'Lys-4' of histone H3. Histone H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. In embryonic stem (ES) cells, plays a crucial role in the differentiation potential, particularly along the neural lineage, regulating gene induction and H3 'Lys-4' methylation at key developmental loci, including that mediated by retinoic acid. Does not affect ES cell self-renewal.[UniProtKB/Swiss-Prot Function]