

## Product datasheet for MC206648

### Rbpj (BC051387) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rbpj (BC051387) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rbpj
Synonyms:	RBP-J, CBF1, RBPjk, Igkjrj
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC051387  
GGCGGGGGAATCTCGCGAGGGTTGGAGTTTTGGCGAGAGTTTGTGGAAGATGGCGCCTGTTGTGACAGG  
GAAGTTTGGTGAGCGGCCTCCACCAAACGACTCACTAGGGAAGCTATGCGAAATATTTAAAAGAACGA  
GGGGATCAAACAGTGCTCATTCTTCATGCAAAAAGTTGCACAGAAGTCTTACGGAAATGAAAAACGATTTT  
TTTGCCCTCCTCCTTGTGTGTATCTTATGGGCAGTGGTTGGAAGAAAAAAGAGCAAATGGAACGAGA  
TGGATGTTCTGAACAAGAGTCTCAACCCTGTGCGTTTATTGGAATAGGAAACAGTGACCAAGAAATGCAG  
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AACATTTTCATGTTGTCTGTAAGATGTTCTATGGCAACAGCGATGACATTGGTGTGTTTCTCAGCAAGCG  
GATAAAGGTCATCTCAAACCCTCCAAAAGAAGCAGTCACTGAAGAATGCTGACTTGTGCATTGCTTCA  
GGAACGAAGGTGGCACTGTTCAATCGCCTTCGGTCCCAGACAGTTAGTACCAGGTACCTGCATGTAGAAG  
GAGGGAATTTCCACGCCAGTTCACAACAGTGGGAGCATTTCATCCATCTCTTGGACGACGACGAGTC  
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ACAATGAACAACATCAGAATGCACAGGCTGATGGAATCCAGTTTTTCAGCTGTCCCTCTCACACACACC  
CCTTTTTGGTTGTTTTGGTTTTGATTTAATGGCCAGGAAACAGATATGTGGCTGGAGCACAGGCT



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AAGCTAGAAGACACAAACCTAACATAGACTTATGGACCAAGGGACTCGCATAAAGCTTTAGTGAAAGGTAC
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GATTTCTTTCAGATCAGCTACAGCCACCTCCTCCCGCCCGCCTCACCCCTCCAGGCTGTCTCAGTGG
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AGACTCCTACCACAGAATAGTGTGAACAGATATGTCTGTCTGCTTTACCATGTTATTGATAGTTCTTTTG
TCAGCTGCTTTTATTAAGTCCTCTTTTGTGGAAAAAAAAAAAAAAAAA
    
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- Restriction Sites:** EcoRI-NotI
- ACCN:** BC051387
- Insert Size:** 1464 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:** [BC051387](#), [AAH51387](#)

**RefSeq Size:** 4038 bp

**RefSeq ORF:** 1464 bp

**Locus ID:** 19664

**Cytogenetics:** 5 29.37 cM

**Gene Summary:** Transcriptional regulator that plays a central role in Notch signaling, a signaling pathway involved in cell-cell communication that regulates a broad spectrum of cell-fate determinations (PubMed:7566092). Acts as a transcriptional repressor when it is not associated with Notch proteins. When associated with some NICD product of Notch proteins (Notch intracellular domain), it acts as a transcriptional activator that activates transcription of Notch target genes. Probably represses or activates transcription via the recruitment of chromatin remodeling complexes containing histone deacetylase or histone acetylase proteins, respectively. Specifically binds to the immunoglobulin kappa-type J segment recombination signal sequence. Binds specifically to methylated DNA. Binds to the oxygen responsive element of COX4I2 and activates its transcription under hypoxia conditions (4% oxygen) (By similarity). Negatively regulates the phagocyte oxidative burst in response to bacterial infection by repressing transcription of NADPH oxidase subunits (PubMed:26194095).[UniProtKB/Swiss-Prot Function]