

Product datasheet for **MC228087**

Rbpj (NM_001277116) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbpj (NM_001277116) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rbpj
Synonyms:	AI843960; CBF1; Igkjrb; Igkrsbp; RBP-J; RBP-J kappa; RBP-Jkappa; RBPjk; Rbpsuh
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228087 representing NM_001277116
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGTTGCTGGGATTTGAACTCTGACCTTCAGAAGAGCAGTCGGGTGCTCTTACCCATTGAGCCATC
 TCACCAGCCCGAAGTTTGGTGAGCGGCCTCCACCCAAACGACTCACTAGGGAAGCTATGCGAAATTATTT
 AAAAGAACGAGGGGATCAAACAGTGCTCATTCTTCATGCAAAAAGTTGCACAGAAGTCTTACGGAAATGAA
 AAACGATTTTTTTGCCCTCCTCCTGTGTGTATCTTATGGGCAGTGGTTGGAAGAAAAAAGAGCAAA
 TGGAACGAGATGGATGTTCTGAACAAGAGTCTCAACCCTGTGCGTTTATTGGAATAGGAAACAGTGACCA
 AGAAATGCAGCAGCTGAACTTGAAGGGAAGAAGTACTGTACAGCCAAAACATTGTACATATCTGATTCA
 GACAAGAGAAAACATTTTCATGTTGTCTGTAAGATGTTCTATGGCAACAGCGATGACATTGGTGTGTTC
 TCAGCAAGCGGATAAAGGTCATCTCAAACCTCCAAAAAGAAGCAGTCACTGAAGAATGCTGACTTGTG
 CATTGCTTCAGGAACGAAGGTGGCACTGTTCAATCGCCTTCGGTCCAGACAGTTAGTACCAGGTACCTG
 CATGTAGAAGGAGGAATTTCCACGCCAGTTCACAACAGTGGGGAGCATTTCATCCATCTCTTGACG
 ACGACGAGTCGGAAGGAGAGGAGTTCACAGTTAGAGATGGCTACATCCATTACGGGCAGACTGTCAAGCT
 TGTGTGCTCAGTACTGGCATGGCACTCCCAAGATTGATAATTAGGAAAGTTGATAAGCAGACGGCATT
 CTGGATGCAGACGACCCTGTATCACAACCCACAAATGTGCATTTTACCTTAAGGATACAGAAAGATGT
 ACTTGTGCCTTTCTCAAGAAAGAATAATCCAATTTAGGCCACTCCATGTCCAAAAGAACAAAATAAGGA
 AATGATAAACGATGGAGCTTCTGGACAATCATTAGCACAGACAAGGCCGAGTACACGTTCTATGAGGGA
 ATGGGCCCCGCTTGGCCAGTCACCCCTGTGCTGTGCTAGAAAAGTCTTCAGTTGAATGGCGCGGGG
 ACGTAGCAATGCTTGAACCTACAGGACAAAACCTTACTCCTTAAAGAGTGTGGTTTGGGGATGTAGA
 AGCCGAAACAATGTACAGATGTGGAGAGAGCATGCTCTGTGTGGTCCAGACATTTCTGCATTCCGGGAA
 GGTTGGAGATGGTCCGCCAGCCAGTCCAGTTCAGTACTTTGGTCCGAAATGACGGGTCTTTACT
 CCACCAGCCTTACCTTACCTACACACCAGAGCCAGGGCCAGGCCACACTGCAGCGCTGCAGGAGCGAT
 TCTCAGAGCCAACCTCAGCCAAGTGCCTCCAATGAGTCAAACACAAACAGCGAGGGGAATTACACAAAT
 GCCAGCACAAATCTACCAGTGTACATCGTCCACAGCAACCGTGGTGTCC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001277116
- Insert Size:** 1524 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001277116.1](#), [NP_001264045.1](#)

RefSeq Size: 5590 bp

RefSeq ORF: 1524 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]

Transcript Variant: This variant (4) differs in the 5' UTR, contains an alternate exon in the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (4) is shorter and has a distinct N-terminus, compared to isoform 1.