

## Product datasheet for **MR230298**

### **Rbpj (NM\_001277116) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rbpj (NM_001277116) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rbpj
Synonyms:	A1843960; CBF1; Igkjrj; Igkrsbp; RBP-J; RBP-J kappa; RBP-Jkappa; RBPjk; Rbpsuh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR230298 representing NM\_001277116  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTGGTTGCTGGGATTTGAACTCTGACCTTCAGAAGAGCAGTCGGGTGCTCTTACCCATTGAGCCATC  
 TCACCAGCCCGAAGTTTGGTGAGCGGCCTCACCCAAACGACTCACTAGGGAAGCTATGCGAAATATTT  
 AAAAGAACGAGGGGATCAAACAGTGCTCATTCTTCATGCAAAAAGTTGCACAGAAGCTTACGAAAATGAA  
 AAACGATTTTTTGGCCCTCCTCCTTGTGTATCTTATGGGCAGTGGTTGGAAGAAAAAAGAGCAAA  
 TGGAACGAGATGGATGTTCTGAACAAGAGTCTCAACCCTGTGCGTTTATTGGAATAGGAAACAGTGACCA  
 AGAAATGCAGCAGCTGAACTTGAAGGGAAGAAGTACTGTACAGCCAAAACATTGTACATATCTGATTCA  
 GACAAGAGAAAACATTTTCATGTTGTCTGTAAGATGTTCTATGGCAACAGCGATGACATTGGTGTGTTCC  
 TCAGCAAGCGGATAAAGGTCATCTCAAACCTCCAAAAGAAGCAGTCACTGAAGAATGCTGACTTGTG  
 CATTGCTTCAGGAACGAAGGTGGCACTGTTCAATCGCCTTCGGTCCAGACAGTTAGTACCAGGTACCTG  
 CATGTAGAAGGAGGAATTTCCACGCCAGTTCACAACAGTGGGGAGCATTTCATCCATCTCTGGACG  
 ACGACGAGTCGGAAGGAGAGGAGTTCACAGTTAGAGATGGCTACATCCATTACGGGCAGACTGTCAGCT  
 TGTGTGCTCAGTACTGGCATGGCACTCCCAAGATTGATAATTAGGAAAGTTGATAAGCAGACGGCATT  
 CTGGATGCAGACGACCCTGTATCACAACCCACAAATGTGCATTTTACCTTAAGGATACGAAAAGATGT  
 ACTTGTGCCTTTCTCAAGAAAGAATAATCCAATTCAGGCCACTCCATGTCCAAAAGAACAAAATAAGGA  
 AATGATAAACGATGGAGCTTCTGGACAATCATTAGCACAGACAAGGCCGAGTACACGTTCTATGAGGGA  
 ATGGGCCCGTCTTGGCCAGTCACCCCTGTGCTGTGCTAGAAAAGTCTTCAGTTGAATGGCGGGGGG  
 ACGTAGCAATGCTTGAACCTACAGGACAAAATTTACTCCAAATTAAGAGTGTGGTTTGGGGATGAGA  
 AGCCGAAAACAATGTACAGATGTGGAGAGAGCATGCTCTGTGTGGTCCAGACATTTCTGCATTCCGGGAA  
 GGTTGGAGATGGTCCGCCAGCCAGTCCAGTTCAGTACTTTGGTCCGAAATGACGGGTCTTTACT  
 CCACCAGCCTTACCTTACCTACACACCAGAGCCAGGGCCAGGCCACACTGCAGCGCTGCAGGAGCGAT  
 TCTCAGAGCCAACCTCAGCCAAGTGCCTCCAATGAGTCAAACACAAACAGCGAGGGGAATTACACAAAT  
 GCCAGCACAAATCTACCAGTGTACATCGTCCACAGCAACCGTGGTGTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230298 representing NM\_001277116  
 Red=Cloning site Green=Tags(s)

MWLLGFELLTFRRAVGCSYPLSHLTSPKFGERRPPPKRLTREAMRNYLKERGDQTVLILHAKVAQKSYGNE  
 KRFFCPPPCVYLMGSGWKKKKEQMERDGCSEQESQPCAFIGIGNSDQEMQQLNLEGNKYCTAKTLYISDS  
 DKRKHFMLSVKMFYGNSSDIDGVFLSKRIKVISKPSKKKQSLKNADLCIASGTKVALFNRLRSQTVSTRYL  
 HVEGGNFHASSQQWGFYIHLDDDESEGEFTVRDGYIHYGQTVKLVCSVTGMALPRLIIRKVDKQTAL  
 LDADDPVSQLHKCAFYLKDERMYLCLSQERIIQFQATPCPKEQNKEMINDGASWTIISTDKAEYTFYEG  
 MGPVLPVTPVPVVEVSLQLNGGDVAMLELTGQNFNPNLRVWFGDVEAETMYRCGESMLCVVPDISAFRE  
 GWRWVRQPVQVPTLVRNDGVIYSTSLTFTYTPPEGPRPHCSAAGAILRANSSQVPSNESNTNSEGNNTN  
 ASTNSTSVTSSTATVVS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001277116

**ORF Size:** 1521 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\\_001277116.1](#), [NP\\_001264045.1](#)

**RefSeq Size:** 5590 bp

**RefSeq ORF:** 1524 bp

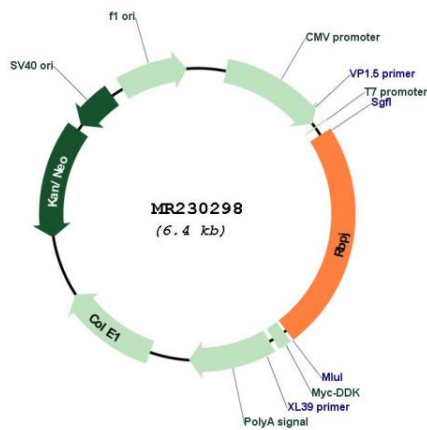
**Locus ID:** 19664

**Cytogenetics:** 5 29.37 cM

**MW:** 57.2 kDa

**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]

**Product images:**


Circular map for MR230298