

Product datasheet for **MR226116**

Rbpj (NM_001080928) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbpj (NM_001080928) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rbpj
Synonyms:	AI843960; 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:

>MR226116 representing NM_001080928
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTGGCCTATAGGAAGTTTGGTGAAGCGCCTCCACCCAAACGACTCACTAGGGAAGCTATGCGAAATT
 ATTTAAAAGAACGAGGGATCAAACAGTCTCATTCTTCATGCAAAAGTTGCACAGAAGTCTTACGGAAA
 TGAAAAACGATTTTTTGGCCTCCTCCTTGTGTATCTTATGGGCAAGTGGTGAAGAAAAAAGAG
 CAAATGGAACGAGATGGATGTTCTGAACAAGAGTCTCAACCCTGTGCGTTTATTGGAATAGGAAACAGTG
 ACCAAGAAATGCAGCAGCTGAACCTGGAAGGGAAGAACTACTGTACAGCCAAAACATTGTACATATCTGA
 TTCAGACAAGAGAAAACATTTTCATGTTGTCTGTAAGATGTTCTATGGCAACAGCGATGACATTGGTGTG
 TTCCTCAGCAAGCGGATAAAGGTCTCCTCAACCCTCCAAAAAGAAGCAGTCACTGAAGAATGCTGACT
 TGTGCATTGCTTCAGGAACGAAGGTGGCACTGTTCAATCGCCTTCGGTCCAGACAGTTAGTACCAGGTA
 CCTGCATGTAGAAGGAGGGAATTTCCACGCCAGTTCACAACAGTGGGAGCATTTTACATCCATCTCTTG
 GACGACGACGAGTCGGAAGGAGAGGAGTTCACAGTTAGAGATGGCTACATCCATTACGGGACAGCTGCA
 AGCTTGTGTGCTCAGTACTGGCATGGCACTCCCAAGATTGATAATTAGGAAAGTTGATAAGCAGACGGC
 ATTAAGTGGATGCAGACGACCTGTATCACAACCTCCAAAATGTGCATTTTACCTAAGGATACAGAAAGA
 ATGTAAGTGTGCTTTCTCAAGAAAGAATAATCCAATTTACAGCCACTCCATGTCCAAAAGAACAAAATA
 AGGAAATGATAACGATGGAGCTTCTGGACAATCATTAGCACAGACAAGGCCGAGTACACGTTCTATGA
 GGGAAATGGGCCCGTCTTGGCCAGTCAACCTGTGCTGTGCTAGAAAGTCTTCAAGTGTGGTTGGGGTG
 GGGACGTAGCAATGCTTGAACCTACAGGACAAAACCTTACTCCAATTTAAGAGTGTGGTTGGGGATG
 TAGAAGCCGAAACAATGTACAGATGTGGAGAGCATGCTCTGTGTGGTCCAGACATTTCTGCATTCG
 GGAAGGTTGGAGATGGGTCCGCCAGTCCAGGTTCCAGTACTTTGGTCCGAAATGACGGGGTCAAT
 TACTCCACCAGCCTTACCTTACCTACACACCAGAGCCAGGGCCGAGGCCACACTGCAGCGCTGCAGGAG
 CGATTCTCAGAGCCAACCTCCAGCCAAGTCCCTCCAATGAGTCAAACACAAAACAGCGAGGGGAATTACAC
 AAATGCCAGCACAAATCTACCAGTGTACATCGTCCACAGCAACCGTGGTGTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226116 representing NM_001080928
 Red=Cloning site Green=Tags(s)

MLAYRKFGERPPPKRLTREAMRNYLKERGDQTVLILHAKVAQKSYGNEKRFFCPPPCVYLMGSGWKKKKE
 QMERDGCSEQESQPCAFIGIGNSDQEMQQLNLEGNKYCTAKTLYISDSDKRKHFM SVKMFYGNSSDIGV
 FLSKRIVISKPSKKKQSLKNADLCIASGTVKALFNRLRSQTVSTRYLHVEGGNFHASSQQWGFYIHL
 DDDESEGEFTVRDGYIHYGQTVKLVCSVTGMALPRLIIRKVDKQTALLDADDPVSQLHKCAFYLKDER
 MYLCLSQERIIQFQATPCPKEQNKEMINDGASWTIISTDKAEYTFYEGMGPVLPVTPVPVVEESLQNGG
 GDVAMLELTGQNF PNLRVWFGDVEAETMYRCGESMLCVVPDISAFREGWRWRQPVQVPVTLVRNDGVI
 YSTSLTFYTPPEGPRPHCSAAGAILRANSSQVPSNESNTNSEGNYNASTNSTSVTSSTATVVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001080928

ORF Size: 1455 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_001080928.1](#), [NP_001074397.1](#)

RefSeq Size: 5394 bp

RefSeq ORF: 1458 bp

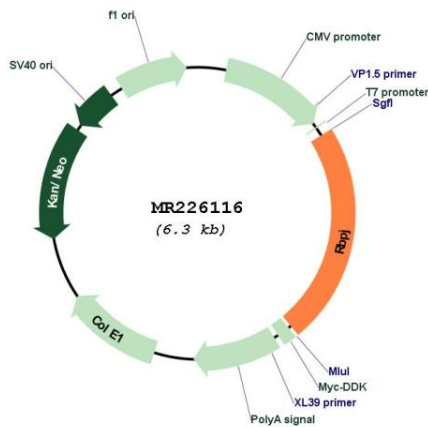
Locus ID: 19664

Cytogenetics: 5 29.37 cM

MW: 54.8 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 MR226116