

Product datasheet for **MR226108**

Rbpj (NM_009035) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbpj (NM_009035) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rbpj
Synonyms:	A1843960; CBF1; Igkjrjrb; 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:

>MR226108 representing NM_009035
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCCTCCGGTTTTCTCAGTCTCCACGTACGTCCCGAGGGCGCTCCAAAACCCGGATAACCGGAG
 CGTCCCCATGGACTACTCGGAGGGCTTGTCCCGGAGGAGCGGCCTGCGCATGCTCCATCGGCGGGAA
 GTTTGGTGAAGCGCTCCACCCAAACGACTCACTAGGGAAGCTATGCGAAATTATTTAAAAGAACGAGGG
 GATCAAACAGTGTCTATTCTTATGCAAAAAGTTGCACAGAAGTCTTACGGAAATGAAAAACGATTTTTTT
 GCCCTCCTCTGTGTATCTTATGGGCAAGTGGTTGGAAGAAAAAAGAGCAATGGAACGAGATGG
 ATGTTCTGAACAAGAGTCTCAACCCTGTGCGTTTATTGGAATAGGAAACAGTGACCAAGAAATGCAGCAG
 CTGAACCTGGAAGGAAGAAGTACTGTACAGCCAAAACATTGTACATATCTGATTCAGACAAGAGAAAAAC
 ATTTTCATGTTGTCTGTAAGATGTTCTATGGCAACAGCGATGACATTGGTGTCTCCTCAGCAAGCGGAT
 AAAGGTCACTCCAACCCTCCAAAAGAAGCAGTCACTGAAGAATGCTGACTTGTGCATTGCTTCAGGA
 ACGAAGGTGGCACTGTTCAATCGCTTCGGTCCCAGACAGTTAGTACCAGGTACCTGCATGTAGAAGGAG
 GGAATTTCCACGCCAGTTCACAACAGTGGGGAGCATTTTACATCCATCTCTTGGACGACGACGAGTCCGA
 AGGAGAGGAGTTCACAGTTAGAGATGGCTACATCCATTACGGGCAGACTGTCAAGCTTGTGTGCTCAGTG
 ACTGGCATGGCACTCCCAAGATTGATAATTAGGAAAGTTGATAAGCAGACGGCATTACTGGATGCAGACG
 ACCCTGTATCACAACCCACAAATGTGCATTTTACCTAAGGATACAGAAAGAATGTACTTGTGCCTTTC
 TCAAGAAAGAATAATCCAATTTCAAGCCACTCCATGTCCAAAAGAACAAAATAAGGAAATGATAAACGAT
 GGAGCTTCTGGACAATCATTAGCACAGACAAGGCCGAGTACACGTTCTATGAGGGAATGGGCCCGTCC
 TTGCCCCAGTCACCCCTGTGCTGTGTAAGAGTCTTCAGTTGAATGGCGCGGGGACGTAGCAATGCT
 TGAACCTACAGGACAAAACCTTACTCCAATTTAAGAGTGTGGTTTGGGGATGTAGAAGCCGAAACAATG
 TACAGATGTGGAGAGAGCATGCTCTGTGTGGTCCAGACATTTCTGCATTCGGGAAGGTTGGAGATGGG
 TCCGCCAGCCAGTCCAGTTCAGTGACTTTGGTCCGAAATGACGGGGTCACTTACTCCACCAGCCTTAC
 CTTACCTACACACCAGAGCCAGGGCCGAGGCCACACTGCAGCGCTGCAGGAGCGATTCTCAGAGCCAAC
 TCCAGCCAAGTCCCTCCAATGAGTCAAACACAAAACAGCGAGGGGAATTACAAAATGCCAGCACAAT
 CTACCAGTGTACATCGTCCACAGCAACCGTGGTGTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226108 representing NM_009035
 Red=Cloning site Green=Tags(s)

MPSGFPQSPRTSPRARPKTRITGALPMDYSEGLSAEERPAHAPSAGKFGERPPPKRLTREAMRNYLKERG
 DQTVLILHAKVAQKSYGNEKRFFCPPPCVYLMGSGWKKKKEQMERDGCSEQESQPCAFIGIGNSDQEMQQ
 LNLEGNKYCTAKTLYISDSDKRKHFMLSVKMFYGNSSDIDGVFLSKRIKVISKPSKKKQSLKNADLCIASG
 TKVALFNRLRSQTVSTRYLHVEGGNFHASSQQWGFYIHLDDDESEGEFTVRDGYIHYGQTVKLVCSV
 TGMALPRLIIRKVDKQTALLDADDPVSQLHKCAFYLKDERMYLCLSQERIIQFQATPCPKEQNKEMIND
 GASWTIISTDKAEYTFYEGMGPVLAPVTPVPVVESSLQLNGGGDVAMLELTGNFTPNLRVWFGDVEAETM
 YRCGESMLCVVPDISAFREGWRWVRQPVPVTLVRNDGVIYSTSLTFTYTPGPRPHCSAAGAILRAN
 SSQVPSNESNTNSEGNYTNASTNSTSVTSSTATVVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja2337_d07.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_009035

ORF Size: 1578 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

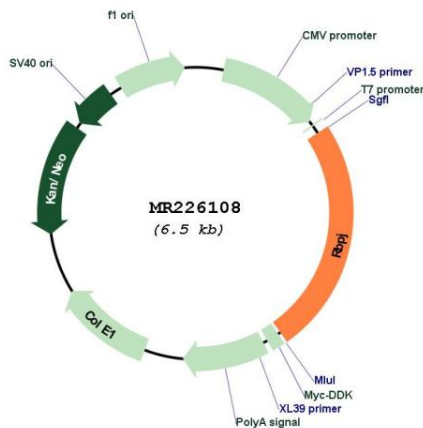
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_009035.5](#)

RefSeq Size: 5541 bp
 RefSeq ORF: 1581 bp
 Locus ID: 19664
 UniProt ID: [P31266](#)
 Cytogenetics: 5 29.37 cM
 MW: 59 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 MR226108