

## Product datasheet for **MG226116**

### **Rbpj (NM\_001080928) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rbpj (NM_001080928) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rbpj
Synonyms:	AI843960; CBF1; Igkjrj; Igkrsbp; RBP-J; RBP-J kappa; RBP-Jkappa; RBPjk; Rbpsuh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG226116 representing NM\_001080928  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTGGCCTATAGGAAGTTTGGTGAGCGGCCCTCCACCCAAACGACTCACTAGGGAAGCTATGCGAAATT  
 ATTTAAAAGAACGAGGGGATCAAACAGTGCTCATTCTTCATGCAAAAGTTGCACAGAAGTCTTACGGAAA  
 TGAAAAACGATTTTTTGGCCCTCCTCCTTGTGTATCTTATGGGCAAGTGGTGGAGAAAAAAGAG  
 CAAATGGAACGAGATGGATGTTCTGAACAAGAGTCTCAACCCTGTGCGTTTATTGGAATAGGAAACAGTG  
 ACCAAGAAATGCAGCAGCTGAACCTGGAAGGGAAGAACTACTGTACAGCCAAAACATTGTACATATCTGA  
 TTCAGACAAGAGAAAACATTTTCATGTTGTCTGTAAGATGTTCTATGGCAACAGCGATGACATTGGTGTG  
 TTCCTCAGCAAGCGGATAAAGGTCATCTCAAACCCTCCAAAAAGAAGCAGTCACTGAAGAATGCTGACT  
 TGTGCATTGCTTCAGGAACGAAGGTGGCACTGTTCAATCGCCTTCGGTCCAGACAGTTAGTACCAGGTA  
 CCTGCATGTAGAAGGAGGGAATTTCCACGCCAGTTCACAACAGTGGGAGCATTTTACATCCATCTCTTG  
 GACGACGACGAGTCGGAAGGAGAGGAGTTCACAGTTAGAGATGGCTACATCCATTACGGGACAGACTGCA  
 AGCTTGTGTGCTCAGTGACTGGCATGGCACTCCCAAGATTGATAATTAGGAAAGTTGATAAGCAGACGGC  
 ATTACTGGATGCAGACGACCCTGTATCACAACCCACAAATGTGCATTTTACCTTAAGGATACAGAAAGA  
 ATGTACTTGTGCCTTTCTCAAGAAAGAATAATCCAATTTACAGCCACTCCATGTCCAAAAGAACAAAATA  
 AGGAAATGATAACGATGGAGCTTCTGGACAATCATTAGCACAGACAAGGCCGAGTACACGTTCTATGA  
 GGGAAATGGGCCCGTCTTGGCCAGTCACCCCTGTGCCTGTCTAGAAAAGTCTTCAAGTTGAATGGCGGC  
 GGGGACGTAGCAATGCTTGAACCTACAGGACAAAACCTTACTCCAATTTAAGAGTGTGGTTTGGGGATG  
 TAGAAGCCGAAACAATGTACAGATGTGGAGAGAGCATGCTCTGTGTGGTCCAGACATTTCTGATTCCG  
 GGAAGGTTGGAGATGGGTCCGCCAGCCAGTCCAGGTTCCAGTGACTTTGGTCCGAAATGACGGGGTCAAT  
 TACTCCACCAGCCTTACCTTACCTACACACCAGAGCCAGGGCCGAGGCCACACTGCAGCGCTGCAGGAG  
 CGATTCTCAGAGCCAACCTCCAGCCAAGTGCCCTCCAATGAGTCAAACACAAAACAGCGAGGGGAATTACAC  
 AAATGCCAGCACAAATCTACCAGTGTCACATCGTCCACAGCAACCGTGGTGTCC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG226116 representing NM\_001080928  
 Red=Cloning site Green=Tags(s)

MLAYRKFGERPPPKRLTREAMRNYLKERGDQTVLILHAKVAQKSYGNEKRFFCPPPCVYLMGSGWKKKKE  
 QMERDGCSEQESQPCAFIGIGNSDQEMQQLNLEGNKYCTAKTLYISDSDRKHFMLSVKMFYGNSSDDIGV  
 FLSKRIVISKPSKKKQSLKNADLCIASGTVKALFNRLRSQTVSTRYLHVEGGNFHASSQWGAFYIHL  
 DDESEGEFTVRDGYIHYGQTVKLVCSVTGMALPRLIIRKVDKQTALLDADDPVSQLHKCAFYLKDT  
 MYLCLSQERIIQFQATPCPKENKEMINDGASWTIISTDKAEYTFYEGMGPVLAPVTPVPVVE  
 GDVAMLELGTQNFNLRVWFGDVEAETMYRCGESMLCVVPDISAFREGWRWRQPVQVPVTLVRNDGVI  
 YSTSLTFTYTPGPRPHCSAAGAILRANSSQVPSNESNTNSEGNYNASTNSTSVTSSTATVVS

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-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

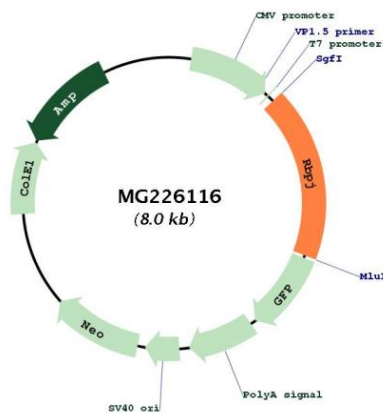
**RefSeq ORF:** 1458 bp

**Locus ID:** 19664

**Cytogenetics:** 5 29.37 cM

**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 MG226116