

Product datasheet for **MG226108**

Rbpj (NM_009035) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbpj (NM_009035) 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:

>MG226108 representing NM_009035
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCCTCCGGTTTTCTCAGTCTCCACGTACGTCCCGAGGGCGCTCCAAAACCCGGATAACCGGAG
 CGCTCCCATGGACTACTCGGAGGGCTTGTCCGCGGAGGAGCGGCTGCGCATGCTCCATCGGCGGGAA
 GTTTGGTGAAGCGCTCCACCCAAACGACTCACTAGGGAAGCTATGCGAAATTATTTAAAAGAACGAGGG
 GATCAAACAGTGCTATTCTTCATGCAAAAGTTGCACAGAAGTCTTACGGAAATGAAAAACGATTTTTTT
 GCCCTCTCCTTGTGTATCTTATGGGCAAGTGGTTGGAAGAAAAAAGAGCAATGGAACGAGATGG
 ATGTTCTGAACAAGAGTCTCAACCCTGTGCGTTTATTGGAATAGGAAACAGTGACCAAGAAATGCAGCAG
 CTGAACCTGGAAGGAAGAAGTACTGTACAGCCAAAACATTGTACATATCTGATTCAGACAAGAGAAAAC
 ATTTTCATGTTGTCTGAAAGATGTTCTATGGCAACAGCGATGACATTGGTGTGTTCTCAGCAAGCGGAT
 AAAGTCACTCCAACCCCTCCAAAAGAAGCAGTCACTGAAGAATGCTGACTTGTGCATTGCTTCAGGA
 ACGAAGGTGGCACTGTTCAATCGCTTCGGTCCCAGACAGTTAGTACCAGGTACCTGCATGTAGAAGGAG
 GGAATTTCCACGCCAGTTCACAACAGTGGGAGCATTTTACATCCATCTCTTGGACGACGACGAGTCCGA
 AGGAGAGGAGTTCACAGTTAGAGATGGCTACATCCATTACGGGCAGACTGTCAAGCTTGTGTGCTCAGTG
 ACTGGCATGGCACTCCCAAGATTGATAATTAGGAAAGTTGATAAGCAGACGGCATTACTGGATGCAGACG
 ACCCTGTATCACAACCCACAAATGTGCATTTTACCTAAGGATACAGAAAGAATGTACTTGTGCCTTTC
 TCAAGAAAGAATAATCCAATTTCCAGGCCACTCCATGTCCAAAAGAACAAAATAAGGAAATGATAAACGAT
 GGAGCTTCTGGACAATCATTAGCACAGACAAGGCCGAGTACACGTTCTATGAGGGAATGGGCCCGTCC
 TTGCCCCAGTCACCCCTGTGCTGTCTGAGAAAGTCTTCAGTTGAATGGCGCGGGGACGTAGCAATGCT
 TGAACCTACAGGACAAAACCTTACTCCAAATTTAAGAGTGTGGTTTGGGGATGTAGAAGCCGAAACAATG
 TACAGATGTGGAGAGAGCATGCTCTGTGTGGTCCAGACATTTCTGCATTCGGGAAGGTTGGAGATGGG
 TCCGCCAGCCAGTCCAGGTTCCAGTGACTTTGGTCCGAAATGACGGGGTCAATTTACTCCACCAGCCTTAC
 CTTACCTACACACCAGAGCCAGGGCCGAGGCCACACTGCAGCGCTGCAGGAGCGATTCTCAGAGCCAAC
 TCCAGCCAAGTCCCTCCAATGAGTCAAACACAAAACAGCGAGGGGAATTACACAAATGCCAGCACAAATT
 CTACCAGTGTACATCGTCCACAGCAACCGTGGTGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226108 representing NM_009035
 Red=Cloning site Green=Tags(s)

MPSGFPQSPRTSPRARPKTRITGALPMDYSEGLSAEERPAHAPSAGKFGERRPPPKRLTREAMRNYLKERG
 DQTVLILHAKVAQKSYGNEKRFPCPPCVYLMGSGWKKKKEQMERDGCSEQESQPCAFIGIGNSDQEMQQ
 LNLEGNKYCTAKTLYISDSDKRKHFMLSVKMFYGNSSDDIGVFLSKRIKVISKPSKKKQSLKNADLCIASG
 TKVALFNRLRSQTVSTRYLHVEGGNFHASSQWGFYIHLDDDESEGEFTVRDGYIHYQTVKLVCSV
 TGMALPRLIIRKVDKQTALLDADDPVSQLHKCAFYLKDTERMYLCLSQERIIQFQATPCPKQNKEMIND
 GASWTIISTDKAEYTFYEGMGPVLAPVTPVPVVEQLNNGGDVAMLELTGQNFTPNLRVWFGDVEAETM
 YRCGESMLCVVPDISAFREGWRWVRQPVPVTLVRNDGVIYSTSLTFTYTPPGPRPHCSAAGAILRAN
 SSQVPSNESNTNSEGNYTNASTNSTSVTSSTATVVS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_009035
ORF Size:	1578 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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

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]