

Product datasheet for **MG207810**

Rbpj (NM_001080927) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbpj (NM_001080927) 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:

>MG207810 representing NM_001080927
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCCTGTTGTGACAGGGAAGTTTGGTGAGCGGCCTCCACCCAACGACTCACTAGGGAAGCTATGC
 GAAATTATTTAAAAGAACGAGGGGATCAAACAGTGCTCATTCTTCATGCAAAAAGTTGCACAGAAGTCTTA
 CGGAAATGAAAAACGATTTTTTGGCCCTCCTCCTTGTGTATCTTATGGGCAGTGGTTGGAAGAAAAA
 AAAGAGCAAAATGGAACGAGATGGATGTTCTGAACAAGAGTCTCAACCCTGTGCGTTTATTGGAATAGGAA
 ACAGTGACCAAGAAATGCAGCAGCTGAACTTGAAGGGAAGAAGTACTGCACAGCCAAAACATTGTACAT
 ATCTGATTCAGACAAGAGAAAACATTTTCATGTTGTCTGTAAGATGTTCTATGGCAACAGCGATGACATT
 GGTGTGTTCTCAGCAAGCGGATAAAGGTCATCTCAAACCTCCAAAAAGAAGCAGTCACTGAAGATG
 CTGACTTGTGCATTGCTTCAGGAACGAAGGTGGCACTGTTCAATCGCCTTCGGTCCAGACAGTTAGTAC
 CAGGTACCTGCATGTAGAAGGAGGGAATTTCCACGCCAGTTCACAACAGTGGGGAGCATTTTACATCCAT
 CTCTTGGACGACGACGAGTCGGAAGGAGAGGAGTTCACAGTTAGAGATGGCTACATCCATTACGGGCAGA
 CTGTCAAGCTTGTGTGCTCAGTACTGGCATGGCACTCCCAAGATTGATAATTAGGAAAGTTGATAAGCA
 GACGGCATTACTGGATGCAGACGACCCTGTATCACAATCCACAAATGTGCATTTTACCTTAAGGATACA
 GAAAGAATGTAAGTGTGCTTTCTCAAGAAAGAATAATCCAATTTACGGCCACTCCATGTCCAAAAGAAC
 AAAATAAGGAAATGATAAACGATGGAGCTTCTGGACAATCATTAGCACAGACAAGGCAGAAATACACGTT
 CTATGAGGGAATGGGCCCGTCTTGGCCAGTCAACCCTGTGCCTGTCGTAGAAAGTCTTCAGTTGAAT
 GGCGCGGGGACGTAGCAATGCTTGAACCTACAGGACAAAACCTTACTCCAAATTTACGAGTGTGGTTTG
 GGGATGTAGAAGCCGAAACAATGTACAGATGTGGAGAGAGCATGCTCTGTGTGGTCCCAGACATTTCTGC
 ATTCCGGGAAGGTTGGAGATGGGTCCGCCAGCCAGTCCAGGTTCCAGTACTTTGGTCCGAAATGACGGG
 GTCATTTACTCCACCAGCCTTACCTTACCTACACACCAGAGCCAGGGCCAGGGCCACACTGCAGCGCTG
 CAGGAGCGATTCTCAGAGCCAATCCAGCCAAGTCCCTCCAATGAGTCAAAACAAAACAGCGAGGGGAA
 TTACAAAATGCCAGCACAATTTCTACCAGTGTACATCGTCCACAGCAACCGTGGTGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207810 representing NM_001080927
 Red=Cloning site Green=Tags(s)

MAPVVTGKFGERPPPKRLTREAMRNYLKERGDQTVLILHAKVAQKSYGNEKRFFCPPPCVYLMGSGWKKK
 KEQMERDGCSESEQSPCAF I G I G N S D Q E M Q L N L E G K N Y C T A K T L Y I S D S D K R K H F M L S V K M F Y G N S D D I
 G V F L S K R I K V I S K P S K K K Q S L K N A D L C I A S G T K V A L F N R L R S Q T V S T R Y L H V E G G N F H A S S Q Q W G A F Y I H
 L L D D D E S E G E E F T V R D G Y I H Y G Q T V K L V C S V T G M A L P R L I I R K V D K Q T A L L D A D D P V S Q L H K C A F Y L K D T
 E R M Y L C L S Q E R I I Q F A T P C P K E Q N K E M I N D G A S W T I I S T D K A E Y T F Y E G M G P V L A P V T P V P V V E S L Q L N
 G G G D V A M L E L T G Q N F T P N L R V W F G D V E A E T M Y R C G E S M L C V V P D I S A F R E G W R W R Q P V Q V P V T L V R N D G
 V I Y S T S L T F T Y T P E P G P R P H C S A A G A I L R A N S S Q V P S N E S N T N S E G N Y T N A S T N S T S V T S S T A T V V S

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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_001080927.1 , NP_001074396.1
RefSeq Size:	5420 bp
RefSeq ORF:	1464 bp
Locus ID:	19664
UniProt ID:	P31266
Cytogenetics:	5 29.37 cM
Gene Summary:	<p>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]</p>