

Product datasheet for **MR207810**

Rbpj (NM_001080927) Mouse Tagged ORF Clone

Product data:

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

>MR207810 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCCTGTTGTGACAGGGAAGTTTGGTGAGCGGCCTCCACCCAACGACTCACTAGGGAAGCTATGC
 GAAATTATTTAAAAGAACGAGGGGATCAAACAGTGCTCATTCTTCATGCAAAAAGTTGCACAGAAGTCTTA
 CGGAAATGAAAAACGATTTTTTTGCCCTCCTCCTTGTGTATCTTATGGGCAGTGGTTGGAAGAAAAA
 AAAGAGCAATGGAACGAGATGGATGTTCTGAACAAGAGTCTCAACCCTGTGCGTTTATTGGAATAGGAA
 ACAGTGACCAAGAAATGCAGCAGCTGAACCTGGAAGGGAAGAAGTACTGCACAGCCAAAACATTGTACAT
 ATCTGATTCAGACAAGAGAAAACATTTTCATGTTGTCTGTAAGATGTTCTATGGCAACAGCGATGACATT
 GGTGTGTTCTCAGCAAGCGGATAAAGGTCATCTCAAACCTCCAAAAAGAAGCAGTCACTGAAGAAATG
 CTGACTTGTGCATTGCTTCAGGAACGAAGGTGGCACTGTTCAATCGCCTTCGGTCCAGACAGTTAGTAC
 CAGGTACCTGCATGTAGAAGGAGGGAATTTCCACGCCAGTTCACAACAGTGGGGAGCATTTTACATCCAT
 CTCTTGGACGACGACGAGTCGGAAGGAGAGGAGTTCACAGTTAGAGATGGCTACATCCATTACGGGCAGA
 CTGTCAAGCTTGTGTGCTCAGTACTGGCATGGCACTCCCAAGATTGATAATTAGGAAAGTTGATAAGCA
 GACGGCATTACTGGATGCAGACGACCCTGTATCACAATCCACAAATGTGCATTTTACCTTAAGGATACA
 GAAAGAATGTAAGTGTGCTTTCTCAAGAAAGAATAATCCAATTTACGGCCACTCCATGTCCAAAAGAAC
 AAAATAAGGAAATGATAAACGATGGAGCTTCTGGACAATCATTAGCACAGACAAGGCAGAAATACACGTT
 CTATGAGGGAATGGGCCCGTCTTGGCCAGTCAACCCTGTGCCTGTCGTAGAAAGTCTTCAGTTGAAT
 GCGCGGGGACGTAGCAATGCTTGAACCTACAGGACAAAACCTTACTCCAAATTTACGAGTGTGGTTTG
 GGGATGTAGAAGCCGAAACAATGTACAGATGTGGAGAGAGCATGCTCTGTGTGGTCCCAGACATTTCTGC
 ATTCCGGGAAGTTGGAGATGGGTCCGCCAGTCCAGGTTCCAGTGACTTTGGTCCGAAATGACGGG
 GTCATTTACTCCACCAGCCTTACCTTACCTACACACCAGAGCCAGGGCCAGGCCACACTGCAGCGCTG
 CAGGAGCGATTCTCAGAGCCAATCCAGCCAAGTGCCTCCAATGAGTCAAAACAAAACAGCGAGGGGAA
 TTACAAAATGCCAGCACAATTTCTACCAGTGTACATCGTCCACAGCAACCGTGGTGTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207810 protein sequence
 Red=Cloning site Green=Tags(s)

MAPVVTGKFGERPPPKRLTREAMRNYLKERGDQTVLILHAKVAQKSYGNEKRFFCPPPCVYLMGSGWKKK
 KEQMERDGCSEQESQPCAFIGIGNSDQEMQQLNLEGKNYCTAKTLYISDSDKRKHFMLSVKMFYGNSSDI
 GVFLSKRIKVISKPSKKKQSLKNADLCIASGTKVALFNRLRSQTVSTRYLHVEGGNFHASSQQWGAFYIH
 LLDDESEGEFTVRDGYIHYGQTVKLVCSVTGMALPRLIIRKVDKQTALLDADDPVSQLHKCAFYLKDT
 ERMYLCLSQERIIQFQATPCPKEQNKEMINDGASWTIISTDKAEYTFYEGMGPVLPVTPVPVVESSLQLN
 GGGDVAMLELTGQNFNPLRVWFGDVEAETMYRCGESMLCVVPDISAFREGWRWVRQPVQVPTLVRNDG
 VIYSTSLTFTYTPPEGPRPHCSAAGAILRANSSQVPSNESNTNSEGNYTNASTNSTSVTSSTATVVS

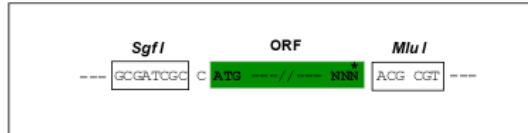
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001080927

ORF Size: 1464 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_001080927.1](#), [NM_001080927.2](#), [NP_001074396.1](#)
RefSeq Size: 5508 bp

RefSeq ORF: 1464 bp

Locus ID: 19664

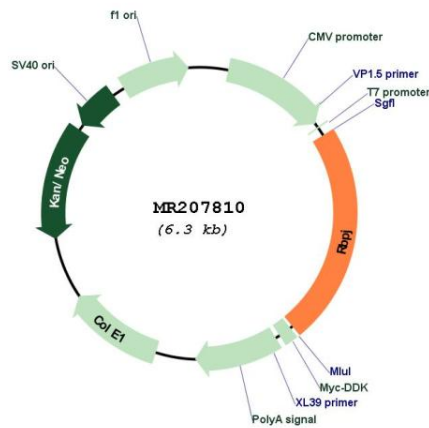
UniProt ID: [P31266](#)

Cytogenetics: 5 29.37 cM

MW: 54.3 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 MR207810