

Product datasheet for **RC218121**

RBPJK (RBPJ) (NM_005349) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	RBPJK
Synonyms:	AOS3; CBF-1; CBF1; csl; IGKJRB; IGKJRB1; KBF2; RBP-J; RBP-JK; RBP-J kappa; RBPJK; RBPSUH; SUH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC218121 representing NM_005349
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACCACACGGAGGGCTCGCCCGCGGAGGAGCCGCTGCGCATGCTCCATCGCCTGGGAAATTTGGTG
 AGCGGCCCTCCACCTAAACGACTTACTAGGAAGCTATGCGAAATTATTTAAAAGAGCGAGGGGATCAAAC
 AGTACTTATTCTTCATGCAAAAGTTGCACAGAAGTCATATGGAATGAAAAAGGTTTTTTGCCACCT
 CCTTGTGTATATCTTATGGGCAGTGGATGGAAGAAAAAAGAACAATGGAACGCGATGGTTGTTCTG
 AACAGAGTCTCAACCGTGTGCATTTATTGGGATAGGAAATAGTGACCAAGAAATGCAGCAGCTAAACTT
 GGAAGGAAAGAACTATTGCACAGCCAAACATTGTATATATCTGACTCAGACAAGCGAAAGCACTTCATG
 TTGTCTGTAAAGATGTTCTATGGCAACAGTGATGACATTGGTGTGTTCTCAGCAAGCGGATAAAAGTCA
 TCTCAAACCTTCAAAAAGAAGCAGTCATTGAAAAATGCTGACTTATGCATTGCCTCAGGAACAAAGGT
 GGCTCTGTTTAATCGACTACGATCCAGACAGTTAGTACCAGATACTTGCATGTAGAAGGAGGTAATTTT
 CATGCCAGTTCACAGCAGTGGGGAGCCTTTTTTATTCATCTCTTGGATGATGATGAATCAGAAGGAGAAG
 AATTCACAGTCCGAGATGGCTACATCCATTATGGACAAACAGTCAAACCTGTGTGCTCAGTACTGGCAT
 GGCACTCCCAAGATTGATAATTAGGAAAGTTGATAAGCAGACCGCATTATTGGATGCAGATGATCCTGTG
 TCACAACCTCCATAAATGTGCATTTACCTTAAGGATACAGAAAGAATGTATTTGTGCCTTTCTCAAGAAA
 GAATAATTCAATTCAGGCCACTCCATGTCCAAAAGAACCAATAAAGAGATGATAAATGATGGCGCTTC
 CTGGACAATCATTAGCACAGATAAGGCAGAGTATACATTTTATGAGGGAATGGGCCCTGTCTTGCCCCA
 GTCACCTCTGTGCTGTGGTAGAGAGCCTTCAGTTGAATGGCGGTGGGGACGTAGCAATGCTTGAACCTA
 CAGGACAGAATTTCACTCCAATTTACGAGTGTGGTTTGGGGATGTAGAAGCTGAAACTATGTACAGGTG
 TGGAGAGAGTATGCTCTGTGTCGTCGCCAGACATTTCTGCATTCCGAGAAGGTTGGAGATGGGTCCGGCAA
 CCAGTCCAGGTTCCAGTAACCTTTGGTCCGAAATGATGGAATCATTTATTCACCAGCCTTACCTTTACCT
 ACACACCAGAACCAGGGCCGCGGCCACATTGCAGTGCAGCAGGAGCAATCCTTCGAGCCAATTCAAGCCA
 GGTGCCCCCTAACGAATCAAACACAAACAGCGAGGGAAGTTACACAAACGCCAGCACAAATTCACCAGT
 GTCACATCATCTACGCCACAGTGGTATCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218121 representing NM_005349
 Red=Cloning site Green=Tags(s)

MDHTEGSPAEEPPAHAPSPGKFGERPFPKRLTREAMRNYLKERGDQTVLILHAKVAQKSYGNEKRFFCPP
 PCVYLMGSGWKKKKEQMERDGCSEQESQPCAFIIGNSDQEMQQLNLEGNKYCTAKTLYISDSKRRKHF
 LSVKMFYGNDDIGVFLSKRIKVISKPSKKKQSLKNADLCIASGTKVALFNRLRSQTVSTRYLHVEGGNF
 HASSQQWGAFFIHLDDDESEGEFTVRDGYIHYGQTVKLVCSVTGMALPRLIIRKVDKQTALLDADDPV
 SQLHKCAFYLKDERMYLCLSQERIIQFQATPCPKENKEMINDGASWTIISTDKAEYTFYEGMGPVLAP
 VTPVPVVESSLQNGGDVAMLELTGQNFNPNLRVWFGDVEAETMYRCGESMLCVVPDISAFREGWRWVRQ
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 VTSSTATVVS

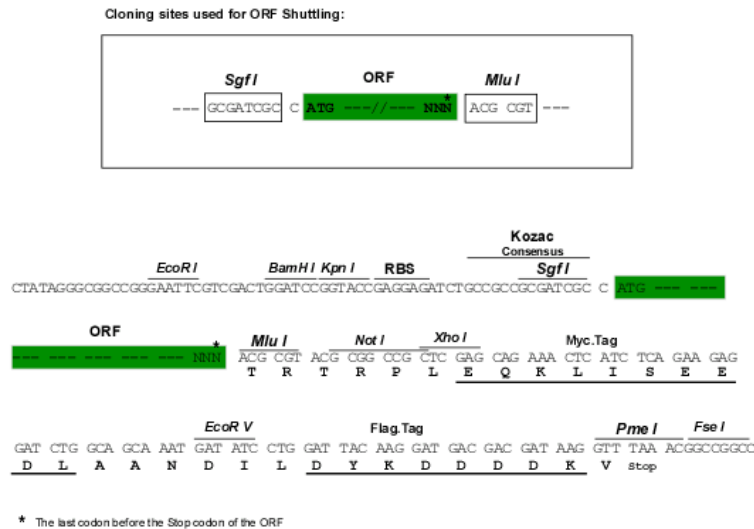
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6097_h06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_005349

ORF Size: 1500 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_005349.4](#)

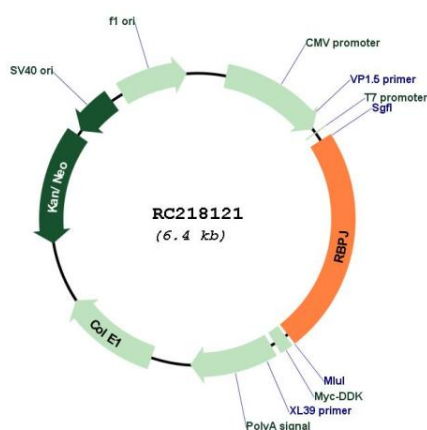
RefSeq Size: 2388 bp

RefSeq ORF: 1503 bp

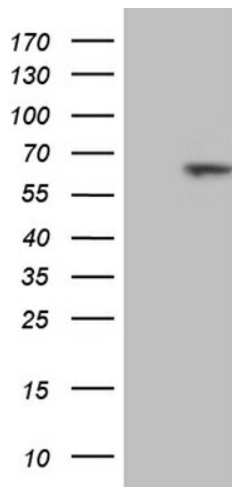
Locus ID: 3516

UniProt ID:	<u>Q06330</u>
Cytogenetics:	4p15.2
Protein Families:	Transcription Factors
Protein Pathways:	Notch signaling pathway
MW:	55.5 kDa
Gene Summary:	The protein encoded by this gene is a transcriptional regulator important in the Notch signaling pathway. The encoded protein acts as a repressor when not bound to Notch proteins and an activator when bound to Notch proteins. It is thought to function by recruiting chromatin remodeling complexes containing histone deacetylase or histone acetylase proteins to Notch signaling pathway genes. Several transcript variants encoding different isoforms have been found for this gene, and several pseudogenes of this gene exist on chromosome 9. [provided by RefSeq, Oct 2013]

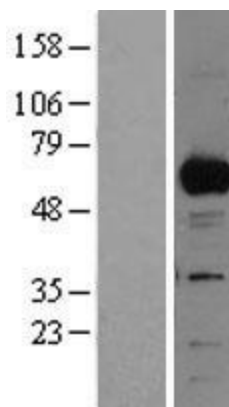
Product images:



Circular map for RC218121



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RBPJ (Cat# RC218121, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RBPJ (Cat# [TA809493])(1:500). Positive lysates [LY401647] (100ug) and [LC401647] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401647]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218121 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).