

Product datasheet for **RC209094**

RBPJK (RBPJ) (NM_203284) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RBPJK (RBPJ) (NM_203284) Human Tagged ORF Clone
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)



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ORF Nucleotide Sequence:

>RC209094 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGTGGATTAAGGAAATTTGGTGAAGCGCCTCCACCTAAACGACTTACTAGGGAAGCTATGCGAA
 ATTATTTAAAAGAGCGAGGGGATCAAACAGTACTTATTCTTCATGCAAAAGTTGCACAGAAGTCATATGG
 AAATGAAAAAAGGTTTTTTTGGCCACCTCCTTGTGTATATCTTATGGGCAGTGGATGGAAGAAAAA
 GAACAAATGGAACCGCATGGTTGTTCTGAACAAGAGTCTCAACCGTGTGCATTTATTGGGATAGGAAATA
 GTGACCAAGAAATGCAGCAGCTAAACTTGAAGGAAAGAACTATTGCACAGCCAAAACATTGTATATATC
 TGACTCAGACAAGCGAAAGCACTTCATGTTGTCTGTAAGATGTTCTATGGCAACAGTGTGACATTGGT
 GTGTTCCCTCAGCAAGCGGATAAAAGTCACTCCAAACCTCCAAAAGAAGCAGTCATTGAAAAATGCTG
 ACTTATGCATTGCCTCAGGAACAAAGGTGGCTCTGTTAATCGACTACGATCCCAGACAGTTAGTACCAG
 ATACTTGCATGTAGAAGGAGGTAATTTTCATGCCAGTTCACAGCAGTGGGGAGCCTTTTTTATTCATCTC
 TTGGATGATGATGAATCAGAAGGAGAAGAAATTCACAGTCCGAGATGGCTACATCCATTATGGACAAACAG
 TCAAACCTGTGTGCTCAGTTACTGGCATGGCACTCCCAAGATTGATAATTAGGAAAGTTGATAAGCAGAC
 CGCATTATTGGATGCAGATGATCCTGTGTACAACCTCCATAAATGTGCATTTTACCTTAAGGATACAGAA
 AGAATGTATTTGTGCCTTCTCAAGAAAGAATAATTCAATTTTCAGGCCACTCCATGTCCAAAAGAACCAA
 ATAAGAGATGATAAATGATGGCGCTTCTGGACAATCATTAGCACAGATAAGGCAGAGTATACATTTTA
 TGAGGGAATGGCCCTGTCTTGGCCAGTCACTCCTGTGCCTGTGGTAGAGAGCCTTCAGTTGAATGGC
 GGTGGGGACGTAGCAATGCTTGAACCTACAGGACAGAATTTCACTCCAAATTTACGAGTGTGTTGGGG
 ATGTAGAAGCTGAAACTATGTACAGGTGGAGAGAGATGCTCTGTGTCTGCCAGACATTTCTGCATT
 CCGAGAAGGTTGGAGATGGGTCCGGCAACAGTCCAGGTTCCAGTAACTTTGGTCCGAAATGATGGAATC
 ATTTATCCACCGCCTTACCTTACCTACACACCAGAACCAGGGCCGCGCCACATTGCAGTGCAGCAG
 GAGCAATCCTTCGAGCCAATTCAAGCCAGGTGCCCCCTAACGAATCAAACACAAACAGCGAGGGAAGTTA
 CACAAACGCCAGCACAAATTCACCAGTGCACATCATCTACAGCCACAGTGGTATCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209094 protein sequence
 Red=Cloning site Green=Tags(s)

MAWIKRKFGERPPPKRLTREAMRNYLKERGDQTVLILHAKVAQKSYGNEKRFFCPPPCVYLMGSGWKKKK
 EQMERDGCSEQESQPCAFIGIGNSDQEMQQLNLEGKNYCTAKTLYISDSDKRKHFM SVKMFYGNSSDDIG
 VFLSKRIKVISKPSKKKQSLKNADLCIASGTKVALFNRLRSQTVSTRYLHVEGGNFHASSQWGAFFIHL
 LDDDESEGEFTVRDGYIHYGQTVKLVCSVTGMALPRLIIRKVDKQTALLDADDPVSQLHKCAFYLKDE
 RMYLCLSQERIIQFQATPCPKENKEMINDGASWTIISTDKAEYTFYEGMGPVLPVTPVPVVESLQLNG
 GGDVAMLELTGQNF PNLRVWFGDVEAETMYRCGESMLCVVPDISAFREGWRWVQPVPVPTLVRNDGI
 IYSTSLTFYTPPEPGRPHCSAAGAILRANSSQVPPNESNTNSEGSYTNASTNSTSVTSSTATVVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6357_c12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_203284

ORF Size: 1458 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_203284.3](#)

RefSeq Size: 6008 bp

RefSeq ORF: 1461 bp

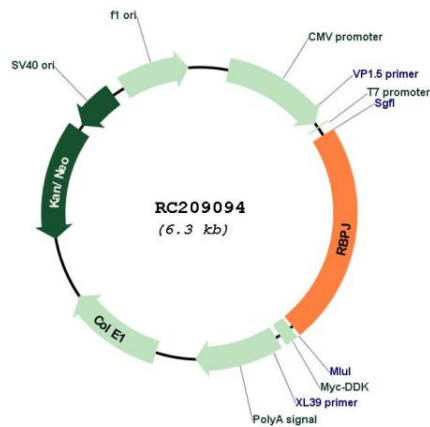
Locus ID: 3516

UniProt ID: [Q06330](#)

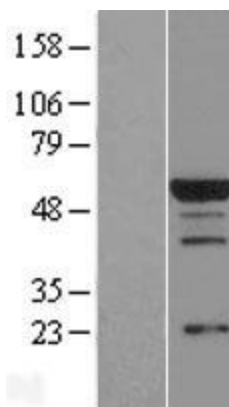
Cytogenetics: 4p15.2
Protein Families: Transcription Factors
Protein Pathways: Notch signaling pathway
MW: 54.4 kDa

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]

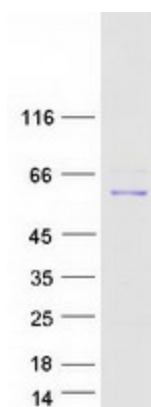
Product images:



Circular map for RC209094



Western blot validation of overexpression lysate (Cat# [LY404368]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209094 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RBPJ protein (Cat# [TP309094]). The protein was produced from HEK293T cells transfected with RBPJ cDNA clone (Cat# RC209094) using MegaTran 2.0 (Cat# [TT210002]).