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Product datasheet for SC108442

RBPJK (RBPJ) (NM_015874) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RBPJK (RBPJ) (NM_015874) Human Untagged Clone
Tag:	Tag Free
Symbol:	RBPJK
Synonyms:	AOS3; CBF-1; CBF1; csl; IGKJRB; IGKJRB1; KBF2; RBP-J; RBP-JK; RBP-J kappa; RBPJK; RBPSUH; SUH
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene sequence for NM_015874 edited
GAATTCGGCACGAGGGGAAGATGGCGCCTGTTGTGACAGGTCATTGAAATTATGAGACTA
TCATTCAAATGGAAGCATTATAGTTCTTCGGAACCATTATGATCTCAAAACGAAAGGAGA
ATGATACAGATACACTGGCTGAGGTGTTTTGAGGTGCATCGAAGTGTTCCAAGCTGTGAC
TTACCTTAACATGTTCTTGAAGTACCATGGCGTGGATTAAAAGGAAATTTGGTGAGCGGC
CTCCACCTAAACGACTTACTAGGGAAGCTATGCGAAATTATTTAAAAGAGCGAGGGGATC
AAACAGTACTTATTCTTCATGCAAAAGTTGCACAGAAGTCATATGGAAATGAAAAAAGGT
TTTTTTGCCCACCTCCTTGTGTATATCTTATGGGCAGTGGATGGAAGAAAAAAAAAGAAC
AAATGGAACGCGATGGTTGTTCTGAACAAGAGTCTCAACCGTGTGCATTTATTGGGATAG
GAAATAGTGACCAAGAAATGCAGCAGCTAAACTTGGAAGGAAAGAACTATTGCACAGCCA
AAACATTGTATATATCTGACTCAGACAAGCGAAAGCACTTCATGTTGTCTGTAAAGATGT
TCTATGGCAACAGTGATGACATTGGTGTGTTCCTCAGCAAGCGGATAAAAGTCATCTCCA
AACCTTCCAAAAAGAAGCAGTCATTGAAAAATGCTGACTTATGCATTGCCTCAGGAACAA
AGGTGGCTCTGTTTAATCGACTACGATCCCAGACAGTTAGTACCAGATACTTGCATGTAG
AAGGAGGTAATTTTCATGCCAGTTCACAGCAGTGGGGAGCCTTTTTTATTCATCTCTTGG
ATGATGATGAATCAGAAGGAGAAGAATTCACAGTCCGAGATGGCTACATCCATTATGGAC
AAACAGTCAAACTTGTGTGCTCAGTTACTGGCATGGCACTCCCAAGATTGATAATTAGGA
AAGTTGATAAGCAGACCGCATTATTGGATGCAGATGATCCTGTGTCACAACTCCATAAAT
GTGCATTTTACCTTAAGGATACAGAAAGAATGTATTTGTGCCTTTCTCAAGAAAGAATAA
TTCAATTTCAGGCCACTCCATGTCCAAAAGAACCAAATAAAGAGATGATAAATGATGGCG
CTTCCTGGACAATCATTAGCACAGATAAGGCAGAGTATACATTTTATGAGGGAATGGGCC
CTGTCCTTGCCCCAGTCACTCCTGTGCCTGTGGTAGAGAGCCTTCAGTTGAATGGCGGTG
GGGACGTAGCAATGCTTGAACTTACAGGACAGAATTTCACTCCAAATTTACGAGTGTGGT
TTGGGGATGTAGAAGCTGAAACTATGTACAGGTGTGGAGAGAGTATGCTCTGTGTCGTCC
CAGACATTTCTGCATTCCGAGAAGGTTGGAGATGGGTCCGGCAACCAGTCCAGGTTCCAG
TAACTTTGGTCCGAAATGATGGAATCATTTATTCCACCAGCCTTACCTTTACCTACACAC
CAGAACCAGGGCCGCGGCCACATTGCAGTGCAGCAGGAGCAATCCTTCGAGCCAATTCAA
GCCAGGTGCCCCCTAACGAATCAAACACAAACAGCGAGGGAAGTTACACAAACGCCAGCA
CAAATTCAACCAGTGTCACATCATCTACAGCCACAGTGGTATCCTAACTACCGTCTTTTT
GCTAGGACTTAAACTGACTTGAGTGTGGCAAAAAGTTAACAAAAAAGGAGAAAAAATGAA
CAATCGTTTGTGGTTTCTTGGGAAAACTTTTCATACCAGGTGATACTATTCAAAAACCCC
GTTGTCTCCCTGCAAGTGCTGATTTGAAATGCAGAAGCCACAGTAAAAAAAAAAAAAAAA
AACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015874 unedited
AGCATTTTGTAATACGACTCACTATAGGCGGCNCGCGAATTCGCACGAGGGAAGAGGCGC
CTGTTGTGACAGGTCATTGAAATTATGAGACTATCATTCAAATGGAAGCATTATAGTTCT
TCGGAACCATTATGATCTCAAAACGAAAGGAGAATGATACAGATACACTGGCTGAGGTGT
TTTGAGGTGCATCGAAGTGTTCCAAGCTGTGACTTACCTTAACATGTTCTTGAAGTACCA
TGGCGTGGATTAAAAGGAAATTTGGTGAGCGGCCTCCACCTAAACGACTTACTAGGGAAG
CTATGCGAAATTATTTAAAAGAGCGAGGGGATCAAACAGTACTTATTCTTCATGCAAAAG
TTGCACAGAAGTCATATGGAAATGAAAAAAGGTTTTTTTGCCCACCTCCTTGTGTATATC
TTATGGGCAGTGGATGGAAGAAAAAAAAAGAACAAATGGAACGCGATGGTTGTTCTGAAC
AAGAGTCTCAACCGTGTGCATTTATTGGGATAGGAAATAGTGACCAAGAAATGCAGCAGC
TAAACTTGGAAGGAAAGAACTATTGCACAGCCAAAACATTGTATATATCTGACTCAGACA
AGCGAAAGCACTTCATGTTGTCTGTAAAGATGTTCTATGGCAACAGTGATGACATTGGTG
TGTTCCTCAGCAAGCGGATAAAAGTCATCTCCAAACCTTCCAAAAAGAAGCAGTCATTGA
AAAATGCTGACTTATGCATTGCCTCAGGAACANAGGTGGCTCTGTTTAATCGACTACGAT
CCCAGACAGTTAGTACCAGATACTTGCATGTAGAAGGAGGTAATTNTCATGCCAGTTCAC
AGCAGTGGNGAGCCTTTTTTATTCATCTCTTGNATGATGATGAATCAGAAAGAGAGCAAT
CACAGTCCGAGATGGCTACATCCATTATGGNACAACAAGTCAACTTGTGTGCTCAGNTAC
TGGCATGGCACTCN

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_015874 unedited
CCCCCCCATTCGTGTGNNCCCGCGCGCCGCAATTCTACGATCGAGTTTTTTTTTTTTTTT
TTTACTGTGGCTTCTGTTTTTCAAATCAGCACTTGCAGGGAGACAACGGGGTTTTTGAAT
AGTATCACCTGGTATGAAAAGTTTTCCCAAGAAACCACAAACGATTGTTCATTTTTTCTC
CTTTTTTGTTAACTTTTTGCCACACTCAAGTCAGTTTAAGTCCTAGCAAAAAGACGGTAG
TTAGGATACCACTGTGGCTGTAGATGATGTGACACTGGTTGAATTTGTGCTGGCGTTTGT
GTAACTTCCCTCGCTGTTTGTGTTTGATTCGTTAGGGGGCACCTGGCTTGAATTGGCTCG
AAGGATTGCTCCTGCTGCACTGCAATGTGGCCGCGGCCCTGGTTCTGGTGTGTAGGTAAA
GGTAAGGCTGGTGGAATAAATGATTCCATCATTTCGGACCAAAGTTACTGGAACCTGGAC
TGGTTGCCGGACCCATCTCCAACCTTCTCGGAATGCAGAAATGTCTGGGACGACACAGAG
CATACTCTCTCCACACCTGTACATAGTTTCAGCTTCTACATCCCCAAACCACACTCGTAA
ATTTGGAGTGAAATTCTGTCCTGTAAGTTCAAGCATTGCTACGTCCCCACCGCCATTCCA
CTGAAGGCTCTCTACCACCAGGCACAGGAGTGACTGGGGCAAGGACAGGGCCCATTCCCT
CACAAAATGAATACTCTGCCTTATCTGCGCTAATGATTGCCCAGGAAGCGCCATCATTTA
TCACCCCTATATTCTGGTTCTTTTGCACATGGAGTGCCCTGAAAATGAATTATTCTTTTT
TTGAGAAGGACAAATACCTTCTTTCTGCATCCTTAGGTAAAATGCACATTATGCATTGTG
ACCAGGAACAT
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Restriction Sites: NotI-NotI

ACCN: NM_015874

Insert Size: 1700 bp

OTI Disclaimer: 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.

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

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_015874.3, NP_056958.3

RefSeq Size: 2316 bp

RefSeq ORF:	1464 bp
Locus ID:	3516
UniProt ID:	Q06330
Cytogenetics:	4p15.2
Protein Families:	Transcription Factors
Protein Pathways:	Notch signaling pathway
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] Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.