

Product datasheet for MR216914

Rb1cc1 (NM_009826) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rb1cc1 (NM_009826) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rb1cc1
Synonyms:	2900055E04Rik; 5930404L04Rik; Cc1; FIP200; LaXp180
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR216914 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTTATATGTGTTTCTGGTTAACACCGGAACACGCTGACATTTGACACTGAGCTAACTGTGCAAA
CTGTGGCTGATCTTAAGCATGCCATTCAAAGCAAATACAAGATTGCTATTCAGCACCAGGTTCTGGTGGT
CAATGGAGGAGAATGCATGGCTGCAGATCGAAGAGTGTGACTTACAGCGCTGGGACGGACAAATCCA
ATTTTTCTTTTTAATAAAGAAATGATCTTATGTGACCGTGACCTGCTATTCCTAAAGCTACCTTTTCAA
CAGAAAATGACATGGAATAAAAGTTGAAGAGTCTTATGATGCCTGCAGTTTTCCACACTGTTGCTTC
AAGGACACAGCTTGCACTGGAAATGTATGACGTTGCCAAGAAGCTCTGCTCTTCTGTGAAGGGCTTGTC
CATGATGAACATCTTCAGCACCAAGGCTGGGCTGCAATCATGGCCAATCTGGAGGACTGTTCAAATTCAT
ACCAAAAACCTCTTTCAAGTTTGAAGATTTTATTCTGATTATCTTCAATCCATAGAAGACATCAAGTT
AAAACCTACTCATTTAGGAAGCTGCTGTTTCAGTAATGGCCAAGATTCCACTATTGGAGTGCCTAACCAGA
CATAGTTACAGGGAATGTTTGGGAAGACCGGATCTTTGAATGAACATGAAGGCTCAGAGAAAGCTGAGA
TGAAAAGATCTACTGAATTGGTGTCTCTCCTGATAGCTAGAACATCGAACACATCCTTGGTAACCTC
ATTTACAAGTCAATGGAGCATGTAGCTCCAGATCCCACCGTACTGAACGTGGCAAAGAAGCTTAGGGAA
TCTTGTCAAAGTACTGTCCAGCAAGAAGAAGCTTCAGTGGATGCTAAAGACAGTATGCTGCTTTTTTTA
ATGTTTTCTTTGTTAGACTGGATAAATGTTCAAGATAGACCAATGATGTGGAATCTCTGGTCAGGAAGTG
CTTTGATTCTATGAGCAGGCTTGACCCAAAGATTATTCAACCTTTATGTTAGAATGCCATCAAACCTATT
GCCAAACTTGATAATCAGAATATGAAAGCCATTAAGGGCTTGAAGATCGGCTGTATGCCTTGGACCAGA
TGATTGCTAGCTGTAGCCGGCTGGTAAATGAACAGAAAGAGCTTGCTCAGGGATTTTTAGCTAATCAGAT
GAGAGCTGAAAACCTGAAGGATGCATCTGTGTTACCTGATCTGTGCTGAGTCATGCAAATCAACTAATG
ATTATGTTGCAAAACCACAGAAAACCTGTTGGATATTAACAGAAAGTGCACCAGTCCAAACAAGAGCTAG
CAAACAATCTCCACGTCAGACTGAAGTGGTGTGTTTTGTGATGCTTCATGCTGATCAAGATGGAGAAAA
ACTGCAGGCACTGCTCCGCTTGAATAGAGCTGTAGAAAGAGTCAGAATTGTTGAGGCTCTTAGTACA



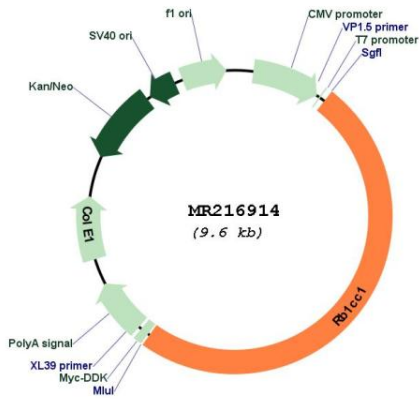
[View online »](#)

GTTCCTCAGATGTATTGCCTAGCTGTTGTTGAGTTGTAAGAAGAAAAATGTTTCATTAACACTACAGAG
 AGTGGGCTGGTGCCTTAGTCAAAGACGGAAAACTATATGAAGCTGAAAAGTCAAAAAGGGAATCCTT
 TGGGAAATATTTAGGAAGTCTTTTTAAGAAATCGTCTGTTAAAGGACTGGACTCCTGGCCTTCTCA
 TTTTGTACTCAGAAGCCTCGAAAATTTGACTGTGAAGTCCAGATATATCGTTAAAAGATTTACAGTTTC
 TTCAATCATTTTGCCTTCAGAAGTGCAGCCATTCCTCAGGGTCCCCTTACTTTGTGACTTTGAACCTCT
 ACACCAGCATGTACTTGCCTACATAATTTGGTAAAAGCAGCACAAAAGTTGGATGAAATGTCACAGACT
 ATTACAGATCTCCTAAATGAACAAAAGGTATCCACAAGTCAGGCATCCCCACAGTCAGTCTGTTCTCCAA
 GAATAGAAAAGTACAACAGGCATTACAACCACTACCTCACCAAAAACCTCCTCCTCCAATACTGTTTCAGGA
 CACCTTATGTCCGGCAGTGTGTCCCTTAGAAGAATTATCTCCAGATAGTATCGATGCTCATACATTTGAT
 TTTGAAACCATCTCCATCCAAACACAGAACAACCTGTTCAACAAGCTTCTATAGACTTGGATTCATTAG
 CAGAAAGCCCTGAGTCTGACTTTATGTCTGCTGTGAATGAGTTTGTGATAGAAGAAAATTTATCGTCTCC
 AAACCCTATAAGTGATCCACAAAGTCCAGAAATGATGGTGGAGTCACTTTACTCTTCAGTCATCAATGCA
 ATAGATAGTAGGCGTATGCAAGACACAAGTACACGTGAAACGAGGGCTTTGGGGATCGGGCTGCTCTAC
 ATGTCCAGCTGGAGAAATGCAGAGCTGCTGCACAAGACTCTCACAGCAGTATACAAACCATCAAGGACGA
 TCTGTGCCATTTCAGAACATTTGTACAAAAGAACAGTGTGACTTAGCAAATTTTAAAATGTACAGCT
 GTAGAAAATAAGAAATATTTGAAAAAGTAAAAATGTTCTCTAGAAAATAACTAAAGGAAAAGCATTACAGC
 AAGAACTCCAATCTTTAAAATTTAGATGAAATGTAAGTAACTTGATGCTCTAGTAAAAGACAGTGAAGAAAA
 TGTAATAAAAATTTAAAATTTGAAAAGAAAATTTAGTATCCCTTGAAGAGGCTTTACAAAATAAGACAAT
 GAATTCACCTTCGATTAACATGAAAAGGATGCTATTGTCTGTGTGCAGCAAGAAAAGGATCAGAAGTTGT
 TAGAGATGGAAAAGATAATGCATACTCAACATTGTGAAATTAAGAAGTGAAGCAGTCACGAGAGATGGC
 ATTAGAAGACCTGAAAAGCTGCATGATGAAAAATCGAGTCATTGAGAGCTGAATTTCACTGCTTAGAA
 CAAAATCACCTGAAGGAATTAGAGGACACACTGCACATCAGGCACACACAGGAGTTTGGAGAAAGTTATGA
 CAGACCACAATATGTCTTTGGAGAAATTAATAAAGAAAATCAGCAAAGAATTGACCAGATGCTAGAAATC
 TCATGCCTCAACTATTCAGGAAAAAGCAACAGCTGCAGGAGTTGAAAACCAAAGTTTCTGCTTGTCA
 GACATGAGATGTAAGTTAGAGTTGAACTTGCCTAAAGGAAGCAGAAACAGATGAGATAAAGATCTTGT
 TGGAAAGAGAGCAGAACACAGCAGAAAGAAATGCTGAAAGTCTTTACTTGAACAAGAGACCGAAAACCTAAG
 AACAGAAAATAAGTAACTAAACCAAAAAATTCATGATAAATGAGAGTTACCAGGTGGGTTTGTGAGAG
 TTAAGAGCTTTAATGACAATTGAAAAGATCAGTGCATTCAGAGTTAATCAGTAGACATGAAGAAGAAAT
 CTAATATACTTAAGGCTGAATTAGACAATGTTACATCTTGCATCGCCAAGCATTGAAAATAGAAAAAAA
 ACTGAAAGAACAATAGTTGAATTGCAGACTAGATTGAACTCAGAATTGAGTGTCTTTGAAAACAGAAA
 GATGAAAAAATAACCAACAAGAAGAGAAGTATGAAGCACGTATCCAGAACCTTGAGAAAAGACAAGGAGA
 GACTGGTCAAGAACCACGAGCAAGACAAAAGAACTTAATTCAGGAGCTTAATTTGAAAAAACAAGC
 TGTTCAAACCTGCACTAGATGAATTTAAGGTGGAGAGAGAAGTGTGAGAAAAGAGTTATTAGAAAAGTT
 AAACATCTTGAGAATCAATAGCCAAAACCTCCTGCCTTTGAGTCAAGCAGAGAAAGATTCTTCAAGCTTAG
 TTGCGGAACTTCAAGAGAAAACCTCAAGAAGAAAAGCTAAGTTTCTGGAACAACCTGAAGAACAAGAGAA
 AAGAAAAGAAATGAGGAAATGCAAAATGTCAGAACCTCTTTGATTGCTGAGCAGCAGACCAACTTTAACACA
 GTCTTAACAAGAGAGAAAATGAGGAAAAGAAAACATAATAAATGATCTTAGTGATAAGCTAAAAAGTACAA
 TGCAGCAGCAAGAGCGGGATAAAGATTTGATAGAGTCGCTCTCTGAGGACCGAGCTCGTTTGTCTGAAGA
 GAAGAAGCAGCTTGAAGAGGAAGTGAAGTAACTCCGCACTAGCAGTTTTCTTTCTCAGCACCTGTGGCT
 GCAGCCCCAGAGCTCTATGGTGGTGTGCACCTGAGCTCCAGGGGAGCCAGAGAGATCAGTCATGGAGA
 CGGCAGATGAAGGAAGACTGGATTCCGCAATGGAGACAAGCATGATGTCTGTCCAAGAAAACATGTTATC
 TGAAGAGAAGCAGAGGATCATGCTCCTAGAACGGACATTGCAGTTGAAAGAAGAAGAAAACAAGCGGTTA
 AATCAAAGACTGATGTCTCAGAGTTTGTCTCAGTCTCTTCAAGGCATTCTGAAAAATAGCCATTAGAG
 ATTTTCAGGTGGGAGATTTGGTTCTCATCATCCTAGATGAGCGGCACGACAATTATGATTGTTTACTGT
 TAGTCCTACTTTATTTTCTGCACTCAGAGTCTCTTCTGCCCTGGATCTCAAACCAGGTGAGGGAGCT
 TCAGGTGCATCTAGAAGACCCTGGGTCTTGGGAAAGTAAATGGAAAAGGAATACTGTCAAGCCAAAAAGG
 CACAAAACAGATTTAAGTTCTTTGGGACAAAAGTTTTACAGAGTGAAGCTGTGTCATGGAATAAGAA
 AGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

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:	<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_009826.1 , NM_009826.2 , NM_009826.3 , NM_009826.4 , NP_033956.2
RefSeq Size:	7046 bp
RefSeq ORF:	4767 bp
Locus ID:	12421
UniProt ID:	Q9ESK9
Cytogenetics:	1 A1
MW:	182.4 kDa
Gene Summary:	Involved in autophagy (PubMed:23262492, PubMed:19258318). Regulates early events but also late events of autophagosome formation through direct interaction with Atg16L1 (PubMed:23392225, PubMed:23285000, PubMed:19258318). Required for the formation of the autophagosome-like double-membrane structure that surrounds the Salmonella-containing vacuole (SCV) during <i>S.typhimurium</i> infection and subsequent xenophagy (PubMed:21525242). Involved in repair of DNA damage caused by ionizing radiation, which subsequently improves cell survival by decreasing apoptosis (PubMed:21807966). Inhibits PTK2/FAK1 and PTK2B/PYK2 kinase activity, affecting their downstream signaling pathways (By similarity). Plays a role as a modulator of TGF-beta-signaling by restricting substrate specificity of RNF111 (PubMed:21795712). Functions as a DNA-binding transcription factor (PubMed:12095676). Is a potent regulator of the RB1 pathway through induction of RB1 expression (PubMed:15968549). Plays a crucial role in muscular differentiation (PubMed:15968549). Plays an indispensable role in fetal hematopoiesis and in the regulation of neuronal homeostasis (PubMed:19940130, PubMed:21088496).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216914