

Product datasheet for MC229363

Rbl2 (NM_001282000) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbl2 (NM_001282000) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rbl2
Synonyms:	p130; PRB2; Rb2; RBR-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC229363 representing NM_001282000 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCATCTGGAGGCAACCAGTCGCCACCGCCTCCTCCAGCTGCTGCAGCCAGCTCGGAGGAAGAGGAGG
AGGATGGCGACGCCGCGGATCGCGCGCAGCCCGGGGTCCCGAGCCATCAGATCCAGCAGCGTTTCGA
GGAGCTGTGCAGCCGCTCAACATGGACGAGCGCGCGCGCCGAGGCCGGAGCAGCTACCGCAGCATG
AGCGAGAGCTACACGCTGGAGGAAATGACCTTCATTGGTTAGCATGTGCCTTATATGTGGCTTGCAGAA
AATCTGTTCCAATGTGAGCAAAGGGACCGCTGAAGGAACTATGTATCTTTAACCAAGATCTCTCGCTG
TTCGGAGCAGAGCCTAATTGAATTTTTAAACAAGATGAAGAAGTGGGAAGACATGGCAAATCTGCCCCCA
CATTTCCGAGAACGTAAGGATTAGAAAGAACTTCACTGTTTCTGCTGTGATTTTTAAGAAATATG
AACCCATTTTTCAAGACATTTTTAAATATCCCCAAGAAGAACAGCCTCGCCAGCAAAGAGGAAGAAAACA
GAGGCGACAGCCCTGTACCACATCAGAAATTTCCATTTTTGCTGGGTGCTTTTTATATATGCGAAAGGC
CTGTCCGAGGACTGTACCCCAAGGACTCTAAAGCGTCTCCGACCCGCGTGTGTCATTGAGAAGCTGT
GCTCCTTACACGACGGTCTAGTGTGGAGGCCAAGGGATAAAGGAACACTTCTGGAAACCTATATTAG
GAAACTGTTTGAGAAAAAGCTTCTCAAGGGGAAGGAAGAAATCTTACTGGCTTCTGGAGCCCGGAAAC
TTTGAGAGAGTTTTAAGGCCGTTAATAAGGCATATGAAGAATACGTGTTAGCCGCTGGGAATCTGGATG
AGCGCGTATTCTTGGTGGATGCTGAGGAGGAAGTTGGGACTCTGTCTCGGTGCTAAGTGTGCCTC
AGGTACAGAGAGTGTGAACGGACGCAGATGAGAGACATCTTGCAGCAGCATCTTGACAAGTCTAAAGCA
CTTAGAGTCTGCACACCACTGACTGGCGTGAGGTATGTTCCAGGAGAACAGCCCGTGTGACTCCCGTCT
CCACAGCTGCACACAGCCTGAGCCGTCTTACACCATGCTGTCCGGCCTCAGGAATGCACCCAGTGAGAA
GCTGGAGCGGATACTCAGGTCATGTTCCCGAGATCCAACCTCAGGCTATCGCTGACAGATTGAAAGAAATG
TACGAAATATATTCTCAGCATTTCAGCCAGATGAGAATTTAGTAATTGTGCTAAAGAAATTGCCAACA
AACATTTTCGTTTTGCAGAAATGCTCTACTATAAAGTATTAGAGTCTGTTATTGAGCAAGAACAAAAAG
ATTGGGAGACATGGATTTATCTGGTGTCTGGAGCATGACGCATTCACAGGTCCTTGGCCTGCTGC



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CTTGAGGTGGTCGCTTTTTCCCATAAGCCTCCTGGGAATTTCCATTTATTGCTGAAATATTTGATGTAC
CACATTATCATTTTTATAAGGTAATTGAAGTATTTATTAGAGCAGAAGACGGTCTTTGCAGAGAAGTGGT
CAAACACCTCAATCAGATTGAAGAACAAATTTAGACCATTTGGCATGGAAAACCAAGTCCCCACTGTGG
GACAGAATTAGAGATAATGAAAACAGAGTCCCTACTTGTGAAGAGGTCATGCCACCTCAAACCTAGAGA
GAACAGATGAAATTTACATCGCTGGCTCCTCTAACCCCGAGAAGGGTGGGTGAAGTTCGTGCTGATGC
TGGAGGACTTGAAGAAGTATAACGTCTCCAACCACATTGTATGACAGGTACAGTCCCCAACAGTCAGC
ACTACTAGAAGCGGCTATTCGAGAATGATAGTCCCTCTGAAGGAAGCACATCTGGGCGCATCCCCCAC
AACCCCTAGTCAACGCTGTCCCGTGCAGAATGTACCTGGGGAGACTGTTTCTGTACACACAGTTCCTGG
ACAGACCTTGGTCACCATGGCAACAGCCACTGTACGGCCAACAATGGACAAACAGTGACCATTCAGTC
CAAGGTATTGCCAACGAAATGGAGGGATAACCTTCTTCCAGTCCAAGTCAACGTTGGGGGCCAGGCC
AGGCTGTGCTGGCTCTATCCAGCCCCTCAGTGTCAAGCACTGGCTGGAAGTCTGAGTTCACACAGGT
GACAGGAACCACTTTGCAAGTCCCTGGTCCGGTGGCCATTCAACAGATTTCCCCTGGTGGACAACAGCAG
AACCCAGGCCAGCCACTAACAGCAGCAGTATCCGGCCGCGGAAGACTAGCTCCTTAGCGCTCTTCTTTA
GAAAGGTTTACTACTTAGCCGGTGTCCGCCTTCGAGATCTTTGTATAAACTAGATATTTAGATGAACT
GAGGAAAAAATTTGGACCTGCTTTGAATTCTCTATAATCCAGTGCACCGAACTTATGATGGACAGACAT
CTGGACCAGCTGTTGATGTGTGCCATTTATGTGATGGCAAAGGTCACAAAAGAAGACAGGTCCTTCCAGA
ACATCATGCGTTGTTACAGAACTCAGCCACAGGCCCGGAGCCAGGTGTACAGAAGTGTCTTGATAAAAGG
GAAAAGAAGAACTCTGGCAGCAGTGAGAGCAGAAGCCATCAGAAATCTCCAACCGAACTAAATACAGAC
AGAGCCAGTAGAGATTCCAGCCCAGTGTGAGGTCAAACAGCACCCCTACCAGTTCACAGCCCAGCAGTG
CCCCTCTACACCAACTCGACTCAGGGTGGCCAGCAGTGACGTTGAAGAGGAGGAACGAGGAGACCTCAT
TCAGTTCTACAACAACATCTATAGGAAGCAAATCCAAGCGTTTGCCATGAAGTACTCGCAGGCAAACGCG
CAGACGGACACTCTCCCTCTCTCCCTATCCATTTGTAAGAACAGGCTCCCCTCGCCGAGTACAGTTAT
CTCAAAGTCATCCTATCTACATTTCCCCACATAACAACGAAGCAATGCCTTCTCCTCGAGAGAAGATTTT
TTACTACTTCAGCAACAGCCCATCAAAGAGACTGAGGGAATCAACAGTATGATACGGACAGGAGAGACT
CCAATAAAAAGAGAGGGATTCTCTTGGACGACGGAAGTGAATCACCTGCAAAAAGAACTGCCCCAGAGA
ATCACTCTGCTCTGTACGTCGCTCCAGGATGTGGCAATGACCGAGGTTCACAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001282000
- Insert Size:** 3279 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001282000.1](#), [NP_001268929.1](#)

RefSeq Size: 4806 bp

RefSeq ORF: 3279 bp

Locus ID: 19651

UniProt ID: [Q64700](#)

Cytogenetics: 8 44.25 cM

Gene Summary: Key regulator of entry into cell division. Directly involved in heterochromatin formation by maintaining overall chromatin structure and, in particular, that of constitutive heterochromatin by stabilizing histone methylation. Recruits and targets histone methyltransferases KMT5B and KMT5C, leading to epigenetic transcriptional repression. Controls histone H4 'Lys-20' trimethylation. Probably acts as a transcription repressor by recruiting chromatin-modifying enzymes to promoters. Potent inhibitor of E2F-mediated trans-activation, associates preferentially with E2F5. Binds to cyclins A and E. Binds to and may be involved in the transforming capacity of the adenovirus E1A protein. May act as a tumor suppressor.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) lacks an in-frame exon in the central coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.