

Product datasheet for RN217437

Rbl1 (NM_001191066) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbl1 (NM_001191066) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rbl1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN217437 representing NM_001191066 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTCGAGGACGAGCCCCACGCCGAGGGGGCGGCAGCCGTCGCCGCGGCCAGGGAGGCGCTGCAGGCC
TGTGCCAGGAGCTGAACCTGGACGAGGGGAGCGCCGCCGAAGCCCTGGACGACTTCACCGCCATCCGCGG
CAACTACAGCCTAGAGGGGGAAGTTATACACTGGCTGGCATGCTCTTTGTACGTCGCTTGCCGCAAGAGC
ATCATTCTACCGTGGGAAAGGGCGTCATGGAAGGAACTGTGTTTCGCTGACCAGAATACTACAGCTCAG
CTAAGTTAAGCTTAATTCAGTTTTTTAGTAAAAATGAAGAAGTGGATGGACATGTCAAACCTACCACAAGA
ATTCCGGGAGCGTATAGAAAGGCTAGAAAGAAATTTTGAAGTATCTACAGTAATTTTTAAAAAATTTGAG
CCCATTTTTTTAGATATCTTTCAAATCCATATGAAGAGCTACCAAAGTTGCCACGAAGCAGAAAGCAGA
GGAGGATTCCTTGCAAGTGTAAAGGATCTCTTAATTTCTGCTGGACGCTCTTCGTTTACACTAAGGGTAA
TTTTCGTATGATTGGTGATGATTTAGTAACTCATATCATTACTTCTGTGCTGCTTGGACCTGATTTTT
GCCAATGCTATAATGTGTCCAAATAGACGAGACTTGTTAAATCCATCATTTAAAGGTTTACCATCGGATT
TCCATGCTGTGAACCTCAAAGCTGCAGAAGAACCACCTGTATCATTGCTGTACTTTGCGATCTGCACGA
TGGACTTTTAGTAGAAGCAAAAGGAATAAAGGAGCACTACTTCAAACCATATTTCAAACCTCTTTGAC
AAGAAGATTTTAAAGGTGAATGTCTCTTGATCTTTCCAGTTTTACTGATAATAGCAAAGCAGTGAACA
AGGAGTATGAAGAGTATGTTCTAACTGTTGGGGACTTTGACGAGAGGATCTTTTTGGGAGCAGATGCAGA
GGAGGAGATCGGAACACCTCGAAAGTTCGCTGCTGACACCCAATTTGGGAAACTGACATCACAGGCCAGT
GTGGACTGCAACCTTCAACAACACTTTGAAAAAACGGTCATTTGCACCTTCTACCCCACTTACTGGAC
GGCGCTATTTACAAGAAAAGAGGCAGTTACCACACCTGTTGCTTCAGCTACTCAGAGTGTAAAGCCGATT
ACAGAGCATTGTAGCCGATTGAAAAGTCCCCGAGCGAGCAGCTTCTGACTATTTTTGAATCTTGATG
CGAATCCGATGGGAAACATTGTAAGAAAGTAAAGGAAATAGGAGAGACTTTCTGCCAGCACTATACCC
AGTCCACAGATAAACAGCCAGGATCTCATAGACTTTGCTGTAACAGACTGAAACTGGCAGAAATTTT
GTATTATAAAACTAGAGACTATAATGGTCCAGGAAACAGCAGCACTTTCATGGAATGGACATGTCAGTT
CTTTTAGAACAAGACATATTTACAGGCTCTTGCTGGCTTGTGTTGGAAATGTGCTCTTTGCCTATA
GCTCACCCGTAATTTCCCTGGATCATTGACGTTCTCGGTTTGCAGCCGTTTTACTTCTATAAGGTTAT



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TGAGGTGGTGATCCGCTCAGAGGAGGGGCTCTCCAGAGACATGGTGAACACCTAAACAGCATTGAAGAG
 CAGATTTTGGAGAGTTTACGTTGGACTAATAATTCTGCACTGTGGGAAGCTCTCCGTGCTTCTGCAAATA
 AAGTTCCTTCTGTGAAGAAGTTATATCCCAAATAAATTTGAAATAGGAAATGGAGGAAGTGTGCAAGG
 CCATCTTCCCATGATGCCAATGTCTCCAATAATACATCCAAGAGTCAAGGAAGTTCGCACTGACAGTGGG
 AGCCTTCGAAAAGATATGCAGCCACTGTCTCCATCTCCGTCCATGAGCGCTACAGCTCCCCTGCCGCAG
 GAAGTGCTAAGAGGAGACTCTTTGGTGATGACCCACCAAGGAGACATTGATGGAAAAGATTATGGCAGA
 AGGAACACAGCTGAAAATTGCTCCTTCAAGTGTGACTGCTGAAAGCTTGCAATTTCCCCTGGGCAAGCT
 CTCTCACAATGGCCACGACCACAGTCAAGGGACGACGGGACGGAAGGTTACCGTTCCTTTGCATGGTA
 TTGCCAATGATGCTGGAGAAATCACACTGGTTCCTATTTCCATGAATACTCAAGTCCAGGACTCCACAGCTGA
 GAGCCTTGATCACTAACTGCACAGTCATTAATTGGTGCTTCTCCAAAACAGACCCATCTGACTAAAACG
 CAAGACGCTCCTCTGACCGGAATAAGCAAACCAAGAGAAGTGGGCTTACGACTGTTTTATAGAAAGG
 TCTATCATTTGGCAAGTGTACGCTTACGTGATTTATGTTAAACTTGATGTTTCGAATGAGTTACGAAG
 GAAGATCTGGACATGTTTTGAATCACTTTAGTTCAGTCCCTGATTTAATGAAAGATAGGCATTTGGAT
 CAGCTCCTTCTGTGTGCCTTTTACATCATGGCCAAAGTAACAAAAGAAGAAAGAACTTTTCAAGAAATAA
 TGAAGTACAGAAATCAGCCACAAGCTAATAGTCACGTATACAGGAGTGTCTCTTGAAGTATTCC
 AGGAGAAGTTGTGGCATACAATGGTGACTATGAGATGACTGATGGTGACATAGAAGATGCCACAAAAC
 CCCAACTGTTCCAGTGAACCAAGTGAAGAGGAAAGAGGTGATCTTATCAATTTACAATGCGATATATG
 TAGGAAGAGTGAAGTCATTTGCATTGAAGTATGATTTGTCCAATCAGGACCATATAATGGATGCTCCACC
 GCTCTCTCCTTTCCACATATTAAGCAGCAGCCGGGCTCCCCACGCCGCAATTTCTCAGCAGCATTCCATT
 TATGTCTCTCCGACAAGAAGCGCATCAGGCCTACCCCCAGGAGCGCACTACTCTACAAGTTCAACGGCA
 GCCCTTAAGAAGGCCAAGAAGCGTGTGATCGCCATCAGCGGAGATGCAGAGTCACCTGCCAACGCTCT
 CTGCCAGGAGAACGATGATGTTTTACTTAAACGACTGCAGGATGTTGTCAGTGAAGAGCGAATCATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001191066
- Insert Size:** 3150 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_001191066.1](#), [NP_001177995.1](#)

RefSeq Size: 3150 bp

RefSeq ORF: 3150 bp

Locus ID: 680111

UniProt ID: [D3ZS28](#)

Cytogenetics: 3q42

Gene Summary: Key regulator of entry into cell division (By similarity). 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 (By similarity). Potent inhibitor of E2F-mediated trans-activation. May act as a tumor suppressor (By similarity).[UniProtKB/Swiss-Prot Function]