

Product datasheet for **MR225589**

Rbl1 (NM_001139516) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbl1 (NM_001139516) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rbl1
Synonyms:	AW547426; p107; PRB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR225589 representing NM_001139516
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTTCGAGGACGAGCCCAAGCCGAGGGGGCGCGCGGTCCGCGCGCCAGGGAGGCGCTGCAGGCC
 TGTGCCAGGAAGTGAACCTGGACGAGGGAAGCGCGGCCGAAGCCCTGGATGACTTACGGCCATCCGCGG
 CAACTACAGCCTAGAGGGAGAAGTTATACACTGGCTGGCATGCTCTTTATATGTTGCTTGCCGCAAGAGC
 ATCATTCTACTGTGGGAAAGGCGTCAATGGAAGGAACTGTGTCTCACTCACCAGAATACTGCGCTCAG
 CTAAGTTAAGCTTAATACAGTTTTTTAGTAAAATGAAGAAATGGATGGACATGTCAAACCTACCACAAGA
 GTTTCGTGAGCGGATAGAAAGGCTAGAAAGAAATTTGAAGTATCTACTGTAATTTTTAAAAATTTGAG
 CCCATTTTTTAGATATCTTTCAAATCCATATGAAGAGCCACCAAGTTGCCCGGAGCCGAAAACAGA
 GGAGGATCCCCTGCAGTGTAAAGACCTCTTAACTTCTGCTGGACACTCTTTGTTTACACCAAGGGGAA
 TTTCCGATGATTGGTGATGATTTAGTAACTCCTATCATTACTTCTGTGCTGCTTGGACCTGATCTTT
 GCCAATGCTATAATGTGCCCAAATAGACGAGACTTGTAAATCCATCATTAAAGGCTTACCATCTGATT
 TCCATGCTCCGGACTTCAAAGCCGAGAAGAGCCTCCGTGCATCATTGCTGTACTTTGTGATCTGCATGA
 CGGACTTCTAGTAGAAGCAAAAGGGATAAAGGAGCATTACTTTAAGCCATATATTTCAAAGCTCTTTGAT
 AAGAAGATTTTAAAAGGTGAATGCCTCTTGGATCTTTCCAGCTTACTGATAATAGCAAAGCCGTGAACA
 AGGAATATGAAGAGTATGTCCTAACTGTTGGGACTTCGATGAGAGGATCTTTTTGGGAGCAGATGCAGA
 GGAGGAGATTGGAACACCTCGAAAGTTCCTGCTGACACCCCATTTGGGAACTGACATCACAGGCCAGT
 GTGGAATGCAACCTTCAACAACACTTTGAAAAAAACGGTCATTTGCACCTTCTACCCCACTTACTGGAC
 GCGCGTATTTACAAGAAAAAGAGGCAGTCACACGCCTGTAGCTTCAGCCACTCAAAGTGAAGCCGGTT
 ACAGAGCATCGTCGCTGGATTAATAAAGCCACCAAGTGAGCAGCTTCTGAATATTTTTGAATCTTGATG
 CGGAATCCTATGGGAAACATTATAAAAAATTGTGAAGGAATAGGAGAGACTTTCTGCCAACACTATACCC
 AGTCCACAGATAAACAGCCAGGATCTCACATAGACTTTGCTGTAACAGACTAAAAGTGGCAGAAATTTT
 GTATTACAAAATACTGGAGACTATAATGGTCCAGGAAACACGACGGCTTCATGGAATGGACATGTCGGTT
 CTTTTAGAGCAAGATATATTTCAATAAATCCTTGATGGCTTGTGTTTGGAAATGTGCTCTTTGCATATA
 GCTCACCCGACTTTCCCGTGGATTATTGAAGTTCTCGATTTGCAGCCATTTATTTTTATAAGGTTAT
 TGAGGTGGTATCCGCTCAGAGGAGGCCCTTTCCAGAGACATGGTGAACATCTGAACAGCATTGAAGAA
 CAGATTTTGGAGAGTTTGGCTTGGACTAATAATTCTGCACTGTGGGAGGCTCTGCATGCTCTGCAACA
 GAGTCCCTTCTGTGAAGAAGTAAGCCAGGGC

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225589 representing NM_001139516
 Red=Cloning site Green=Tags(s)

MFEDPHEGAAVAAAREALQALCQELNLDEGSAAEALDDFTAIRGNYSLEGEVIHWLACSLYVACRKS
 IIPTVGKGVMEGNCVSLTRILRSKLSLIQFFSKMKKWMDSNLPQEFRERIERLERNFEVSTVIFKFFE
 PIFLDIFQNPYEEPPKLRSRKQRRIPCSVKDLFNFCWTLFVYTKGNFRMIGDDL VNSYHLLLCLDLIF
 ANAIMCPNRRDLLNPSFKGLPSDFHAPDFKAAEPPCIIAVLCDLHDGLLVEAKGIKEHYFKPYISKLFD
 KKILKGECLLDLSSFTDNSKAVNKEYEYVLTGDFDERIFLGADAEIEIGTPRKFADTPFGKLTQSAS
 VECNLQHFEEKRSFAPSTPLTGRRYLQEKEAVTTPVASATQSVSRLQSIVAGLKSAPSEQLLNIFESCM
 RNP MGNI IKIVKIGETFQHYTQSTDKQPGSHIDFAVNRLKLAELIYYKILETIMVQETRRLHGMDSV
 LLEQDIFHKSLMACCLEIVLFAYSSPRFPWIEVLDLQPFYFYKVIEWVIRSEEGLSRDMVKHLNSIEE
 QILES LAW TNNSALWEALHASANRVPSCEEVSQG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9039_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001139516

ORF Size: 1782 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_001139516.1](#), [NP_001132988.1](#)

RefSeq Size: 2400 bp

RefSeq ORF: 1785 bp

Locus ID: 19650

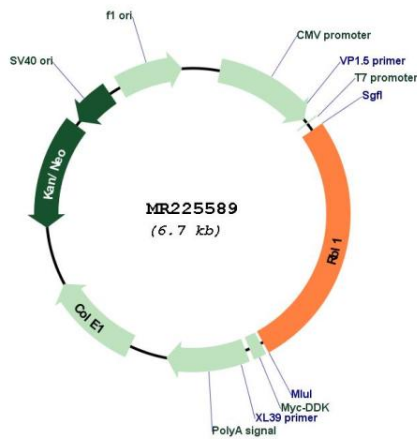
UniProt ID: [Q64701](#)

Cytogenetics: 2 78.05 cM

MW: 67.9 kDa

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. Forms a complex with adenovirus E1A and with SV40 large T antigen. May bind and modulate functionally certain cellular proteins with which T and E1A compete for pocket binding. May act as a tumor suppressor.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225589