

Product datasheet for MR211567

Rbl1 (NM_011249) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rbl1 (NM_011249) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rbl1
Synonyms: AW547426; p107; PRB1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR211567 representing NM_011249
Red=Cloning site Blue=ORF Green=Tags(s)

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 GCCGCGATCGCC

ATGTTTCGAGGACGAGCCCCACGCCGAGGGGGCGGCGGCGGTCGCCGCGGCCAGGGAGGCGCTGCAGGCC
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GCTCACCCCGTACTTTCCCGTGGATTATTGAAGTCTCGATTTGCAGCCATTTTATTTTTATAAGTTAT
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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211567 representing NM_011249

Red=Cloning site Green=Tags(s)

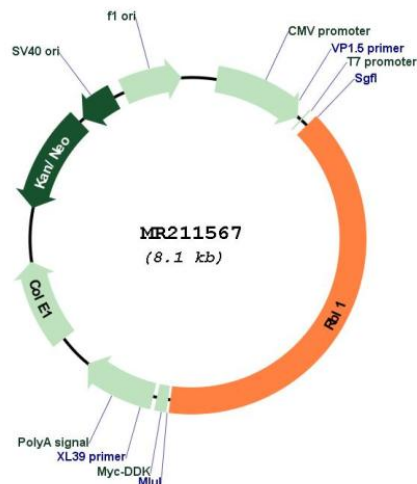
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_011249

ORF Size: 3189 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.

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| 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_011249.2 , NP_035379.2 |
| RefSeq Size: | 4909 bp |
| RefSeq ORF: | 3192 bp |
| Locus ID: | 19650 |
| UniProt ID: | Q64701 |
| Cytogenetics: | 2 78.05 cM |
| MW: | 119.9 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] |