

## Product datasheet for **MC227049**

### Rprd1b (NM\_001291134) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rprd1b (NM\_001291134) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Rprd1b  
**Synonyms:** 2610304G08Rik; 2810446G03Rik; Crept  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >MC227049 representing NM\_001291134  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCTCCTTCTCAGAATCGGCGCTGGAAAAGAAGCTCTCAGAGCTGAGCAACTCTCAGCAGAGCGTGC  
AGACCCTCTCCGTGGCTCATCCACCACCGCAAGCACGCAGGACCCATCGTCTCCGTGTGGCACCGCCGA  
GCTCCGCAAAGCCAAATCAAATAGAAAGCTTACTTTTCTATACTTAGCAAATGATGTCATCCAAAACAGT  
AAAAGGAAAGGACCTGAGTTCACAAGAGAATTTGAGTCTGTGCTTGTGGATGCTTTTCTCATGTTGCCA  
GAGAGGCAGATGAAGGCTGTAAAAACCTTTAGAAAGATTGCTGAACATCTGGCAAGAACGAAGTGTGTA  
CGGCGGGCAGTTCATACAGCAGCTGAAGCTGTCTATGGAGGACTCCAAGAGCCCTCCCCCAAAGCAGCA  
GAAGAGAAGAAGTCTCTAAAACGAACCTTTTCAGCAGATACAAGAGGAGGAAGATGATGACTACCCTGGAA  
GCTACTCTCCCCAAGACCCTTCTGCAGGCCCTCTTTGACTGAGGAGTTAATCAAAGCTTTGCAGGATCT  
GGAAAAATGCTGCGTCAGGGGATGCTACTGTCCGACAGAAGATCGTTCCTGCCTCAGGAAGTGCAAGAC  
GTGTCGCTGCTAGAGAAAATTACAGACAAAGAGGCAGCTGAACGTCTTTCAAACAGTATAGTGAAGCAT  
GTCTGTTACTAGCGGAATATAACGGGCGCCTGGCAGCGGAAGTGAAGACCGGCCAGCTGGCTCGGAT  
GCTGGTGAATACACCCAGAACCAGAAAGAGGTTTTGTGCAAAAAGAGAAAAAACTAGAAGAGTATAAA  
CAGAAGCTTGTGCGAGTAACCCAGTCCGCAAGGAAGTCAAGTCCCACATTCAGAGCTTGCCAGACCTTT  
CGCTGTTGCCTAATGTACAGGGGGCCTGGCACCTCTGCCCTCTGCTGGTGACCTTTTTCAACTGACTA  
G

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI



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<b>ACCN:</b>	NM_001291134
<b>Insert Size:</b>	981 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001291134.1, NP_001278063.1</u>
<b>RefSeq Size:</b>	4520 bp
<b>RefSeq ORF:</b>	981 bp
<b>Locus ID:</b>	70470
<b>UniProt ID:</b>	<u>Q9CSU0</u>
<b>Cytogenetics:</b>	2 H1
<b>Gene Summary:</b>	<p>Interacts with phosphorylated C-terminal heptapeptide repeat domain (CTD) of the largest RNA polymerase II subunit POLR2A, and participates in dephosphorylation of the CTD. Transcriptional regulator which enhances expression of CCND1. Promotes binding of RNA polymerase II to the CCDN1 promoter and to the termination region before the poly-A site but decreases its binding after the poly-A site. Prevents RNA polymerase II from reading through the 3' end termination site and may allow it to be recruited back to the promoter through promotion of the formation of a chromatin loop. Also enhances the transcription of a number of other cell cycle-related genes including CDK2, CDK4, CDK6 and cyclin-E but not CDKN1A, CDKN1B or cyclin-A. Promotes cell proliferation (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (a).</p>