

Product datasheet for **MR228434**

Rprd1b (NM_001291136) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rprd1b (NM_001291136) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rprd1b
Synonyms: 2610304G08Rik; 2810446G03Rik; Crept
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR228434 representing NM_001291136
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAACTACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGACTCCAAGAGCCCTCCCCCAAAGCAGAAGAGAAGAAGTCTCTAAAACGAACTTTTCAGCAGA
 TACAAGAGGAGGAAGATGATGACTACCCTGGAAGCTACTCTCCCCAAGACCCTTCTGCAGGCCCTCTCTT
 GACTGAGGAGTTAATCAAAGCTTTGCAGGATCTGGAAAATGCTGCGTCAGGGGATGCTACTGTCCGACAG
 AAGATCGCTTCCCTGCCTCAGGAAGTGAAGACGTGTCGCTGCTAGAGAAAATTACAGACAAAGAGGCAG
 CTGAACGTCTTTCAAAAACAGTAGATGAAGCATGTCTGTTACTAGCGGAATATAACGGGCGCCTGGCAGC
 GGAAGTGAAGACCGGCCAGCTGGCTCGGATGCTGGTGAATACACCCAGAACCAGAAAGAGGTTTTG
 TCAGAAAAAGAGAAAAAAGTGAAGAGTATAAACAGAAGCTTGCTCGAGTAACCCAGGTCCGCAAGGAAC
 TCAAGTCCACATTTCAGAGCTTGCCAGACCTTTTCGCTGTTGCCTAATGTACAGGGGGCCTGGCACCTCT
 GCCCTCTGCTGGTGACCTCTTTCAACTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228434 representing NM_001291136
 Red=Cloning site Green=Tags(s)

MEDSKSPPPKAEKKSLKRTFQQIQEEEDDDYPGSYSPQDPSAGPLLTEELIKALQDLENAASGDATVRQ
 KIASLPQEVQDVSLLLEKIDKEAERLSKTVDEACLLLAEYNGRLAAELEDRLRLMLVEYTNQKEVL
 SEKEKKLEEYKQKLARVTQVRKELKSHIQSLPDLSPNVTGGGLAPLPSAGDLFSTD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV


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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001291136

ORF Size: 591 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001291136.1](#), [NP_001278065.1](#)

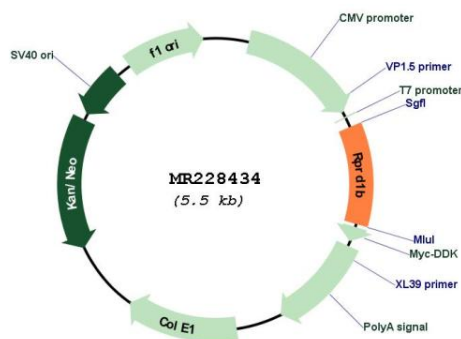
RefSeq Size: 4387 bp

RefSeq ORF: 594 bp

Locus ID: 70470
UniProt ID: [Q9CSU0](#)
Cytogenetics: 2 H1
MW: 22.5 kDa
Gene Summary:

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]

Product images:



Circular map for MR228434