

Product datasheet for **RR214117**

Ruvbl1 (NM_147177) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ruvbl1 (NM_147177) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ruvbl1
Synonyms:	NMP238; Pontin52; Tip49a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR214117 representing NM_147177
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGATTGAGGAGTGAAGAGCACCACGAAGACGCAACGCATTGCCTCCCACAGCCACGTGAAGGGG
 TGGGGCTGGATGAGAGCGCCTGGCCAAGCAGCGGCTTCGGGGCTCGTGGGCCAGGAGAACCGCAGAGA
 GGCATGTGGTGTATAGTCGAATTAATCAAAGCAAGAAAATGGCTGGAAGAGCTGTCTTGTGGCAGGG
 CCTCTGGAACGGCAAGACAGCCTTGGCCCTGGCTATTGCTCAGGAACTGGGCAGTAAAGTCCCTTTCT
 GCCCGATGGTGGTAGTGAAGTAACTCAACTGAGATCAAGAAGACAGAGGTGCTGATGGAGAATTCCG
 AAGGGCTATTGGGCTGCGGATAAAGGAGACTAAGGAGTTTATGAAGGGGAGGTGACAGAGCTCACTCCC
 TGTGAGACAGAGAACCCATGGGTGGTATGGCAAACTATCAGCCACGTGATCATAGGGCTCAAGACTG
 CCAAAGGAACCAACAGCTGAAGCTGGACCCAGTATTTTTGAAAGTTTGCAGAAAGAACGAGTAGAGGC
 TGGAGATGTGATTTACATTGAAGCAAACAGTGGAGCTGTGAAGAGCAAGGCAGGTGTGACACCTATGCC
 ACAGAGTTTGACCTTGAGGCTGAAGAGTATGTCCCTTTGCCAAAGGGAGATGTGCACAAGAAGAAGGAAA
 TCATACAGGATGTGACCTTGACGACTTGACGCTGGCCAAATGCGCGGCCCTCAGGGTGGGCAAGATATTCT
 GTCTATGATGGCCAGTTGATGAAGCAAAAAGACAGAGATCACAGATAAACTTCGAGGGGAGATCAAC
 AAGGTGGTGAACAAATACATTGACCAGGGCGTTGCAGAGCTGGTCCCTGGAGTGTCTTTGTTGACGAGG
 TCCACATGCTGGATATCGAGTGTCTTACCTACCTGCACCGAGCCCTGGAGTCTCCATCGCCCCATTGT
 CATCTTTGCATCCAACCGAGGCAACTGTGTCATCAGGGGCACCGAGGACATCACTTCTCCACACGGCATC
 CCGTTGGACCTGCTGGACCGGGTATGATCATCAGGACCATGCTGTATACGCCACAGGAGATGAAGCAGA
 TCATTAAGATCCGAGCCCAGACGGAAGGCATCAACATCAGTGAAGAGGCCCTAAACCACCTCGGGGAGAT
 TGGCACCAAGACCACGCTGAGGTATTCAGTGCAGCTGCTGACCCCTGCCAACCTGTGGCCAAGATCAAC
 GGAAGGACAGCATTGAGAAGGAGCACGTGGAGGAGATCAGCGAGCTCTTCTATGACGCCAAGTCTCCG
 CCAAGATTCTGGCCGACCAGCAGGACAAGTACATGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214117 representing NM_147177
 Red=Cloning site Green=Tags(s)

MKIEEVKSTTKTQRIASHSHVKLGLDESGLAKQAASGLVQENAREACGVIVELIKSKKMAGRAVLLAG
 PPGTGKTALALAIQELGSKVPFCPMVGSEVYSTEIKKTEVLMENFRRAIGLRIKETKEYVEGEVTELT
 CETENPMGGYGKTI SHV I IGLKTAAGTKQLKLDPSIFESLQKERVEAGDVIYIEANSGAVKRQGRCDTYA
 TEFDLEAEEYVPLPKGDVHKKKEIIQDVTLHDLVDANARPQGGQDILSMMGQLMKPKKTEITDKLRGEIN
 KVVNKYIDQGV AELVPGVLFVDEVHMLDIECFYTLHRALESSIAPIVIFASNRGNCVIRGTEDITSPHGI
 PLDLLDRVMIIRTMLYTPQEMKQIIKIRAQTEGINISEEALNHLGEIGTKTTLRYSVQLLTPANLLAKIN
 GKDSIEKEHVVEEISELFYDAKSSAKILADQDKYMK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

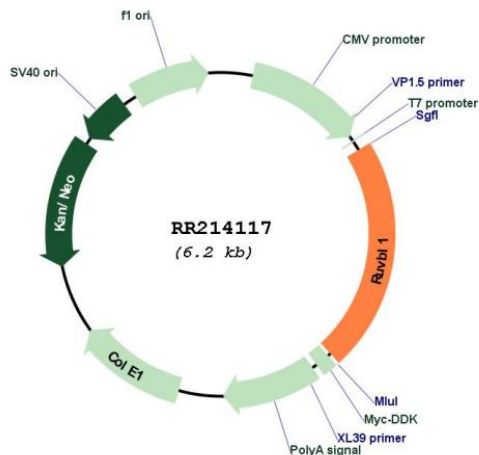
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_147177

ORF Size: 1368 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_147177.1](#), [NP_671706.1](#)

RefSeq Size: 1587 bp

RefSeq ORF: 1371 bp

Locus ID: 65137

UniProt ID: [P60123](#)

Cytogenetics: 4q34

MW: 50.2 kDa

Gene Summary: nuclear DNA helicase that binds TBP; involved in recombination and transcription [RGD, Feb 2006]