

## Product datasheet for **MR226465**

### Ruvbl1 (NM\_019685) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ruvbl1 (NM_019685) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ruvbl1
Synonyms:	2510009G06Rik; Pontin52; Tip49a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR226465 representing NM\_019685  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGATTGAGGAGTGAAGAGCACCAAGACGCAGCGCATCGCCTCCACAGCCACGTGAAGGGTC  
 TGGGGCTGGACGAGAGCGCCTAGCCAAGCAGGCGCTTCGGGTCTCGTGGGCCAGGAGAACCGAGAGA  
 GGCATGTGGCGTCATTGTAGAATTAATCAAAGCAAGAAAATGGCTGGAAGAGCTGTCTTGTGGCGGG  
 CCTCTGGAAGTGGCAAGACAGCCTTGGCCCTTGTATTGCTCAGGAGCTGGCAGTAAAGTCCCTTTCT  
 GCCCGATGGTGGTAGCGAGGTAACTCAACTGAGATCAAAAAGACAGAGGTGCTGATGGAGAATTCCG  
 CAGGGCCATTGGGTTGCGGATAAAGGAGACTAAGGAGTTTATGAAGGGGAGGTGACAGAGCTCACTCC  
 TGTGAGACAGAGAACCCATGGGTGGTACGGCAAACTATCAGCCATGTGATCATAGGGCTCAAGACTG  
 CTAAGGAACCAACAGCTGAAGCTGGACCCAGTATTTTTGAAAGTTTGCAGAAAGAACGAGTAGAGGC  
 TGGAGATGTGATTTACATTGAAGCAAATAGTGGAGCTGTGAAGAGCAAGGCAGGTGTGACACCTATGCC  
 ACAGAGTTTGACCTTGAAGCTGAAGAGTACGTCCCTTTGCCAAAGGGAGATGTGCACAAGAAGAAGAAA  
 TCATACAGGATGTGACCTTGCATGACCTGGATGTGGCTAATGCGCGGCCCTCAGGGTGGGCAAGATATTCT  
 GTCTATGATGGGCCAGTTGATGAAGCAAAAAGACAGAGATCACAGATAAACTTCGAGGGGAGATCAAC  
 AAAGTGGTGAACAAATACATTGACCAGGTGTGGCCGAGCTGGTCCCTGGAGTGTCTTTTGTGATGAGG  
 TCCACATGCTGGATATCGAGTGTCTTACCTACCTGCACCGAGCCCTGGAGTCTCCATCGCCCCATTGT  
 CATCTTTGCATCCAACCGAGGCAACTGTGTCATCAGGGGCACTGAGGACATCACTTCTCCACAGGCATC  
 CCGTTGGATCTGCTAGACAGGTGATGATCATCAGGACCATGCTATACACGCCACAGGAGATGAAGCAGA  
 TCATTAAGATCCGAGCCCAGACGGAAGGCATCAACATCAGCGAGGAGCGCTGAACCACCTCGGGGAGAT  
 TGGCACCAAGACCACTCTGAGGTATTCGGTGCAGCTGCTGACCCAGCCAACCTGTGGCAAGATCAAT  
 GGCAAGGACAGCATTGAGAAGGAGCACGTGGAAGAGATCAGCGAGCTCTTCTATGACGCCAAGTCTCTG  
 CCAAGATTTTGGCTGACCAGCAGGACAAGTACATGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226465 representing NM\_019685  
 Red=Cloning site Green=Tags(s)

MKIEEVKSTTKTQRIASHSHVKGLGLDESLAKQAASGLVGQENAREACGVIVELIKSKKMAGRAVLLAG  
 PPGTGKTALALAIQELGSKVPFCPMVGSEVYSTEIKKTEVLMENFRRAIGLRIKETKEVYEGEVELTP  
 CETENPMGGYGKTI SHVIIGLKTAKGTKQLKLDPSIFESLQKERVEAGDVIYIEANSGAVKRQGRCDTYA  
 TEFDLEAEEYVPLPKGDVHKKKEIIQDVTLHDLVDANARPQGGQDILSMMGQLMKPKKTEITDKLRGEIN  
 KVVNKYIDQGVAVLPGVLFVDEVHMLDIECFYLRHALESSIPIVIFASNRGNCVIRGTEDITSPHGI  
 PLDLLDRVMIIRTMLYTPQEMKQIIKIRAQTEGINISEEALNHLGEIGTKTTLRYSVQLLTPANLLAKIN  
 GKDSIEKEHVVEISELFYDAKSSAKILADQQDKYMK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9059\\_b05.zip](https://cdn.origene.com/chromatograms/mm9059_b05.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_019685

**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\\_019685.3](#)

**RefSeq Size:** 1670 bp

**RefSeq ORF:** 1371 bp

**Locus ID:** 56505

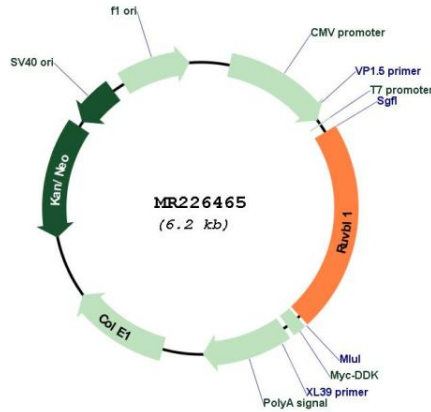
**UniProt ID:** [P60122](#)

**Cytogenetics:** 6 D1

**MW:** 50.2 kDa

**Gene Summary:** Possesses single-stranded DNA-stimulated ATPase and ATP-dependent DNA helicase (3' to 5') activity; hexamerization is thought to be critical for ATP hydrolysis and adjacent subunits in the ring-like structure contribute to the ATPase activity.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR226465