

## Product datasheet for **MR226444**

### Ruvbl2 (NM\_011304) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ruvbl2 (NM_011304) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ruvbl2
Synonyms:	mp47; p47
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR226444 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAACCGTGGCAGCCACCACCAAAGTCCCTGAGATCCGAGATGTGACAAGAATCGAGCGAATCGGCC  
 CCACTCCACATCCGGGGCTGGGACTGGATGATGCCCTGGAGCCAAGACAGGCTCCAGGGAATGGT  
 GGGCAGCTAGCTGCCCGCGTGCAGCTGGCGTGGTGGTGGAGATGATCCGAGAAGGGAAGATTGCAGGG  
 CGGGCCGTCTCATTGCAGGCCAGCCAGGCACTGGGAAGACAGCCATTGCCATGGGCATGGCCAGGCAC  
 TGGGCCCCGACACACCATTACAGCCATCGCAGGCAGTGAGATCTTTCTCTGGAGATGAGCAAGACTGA  
 GGCTCTAACGCAAGCCTTCGCCGTTCCATTGGTGTCCGGATCAAGGAGGAGACAGAGATCATTGAAGGG  
 GAGGTGGTAGAGATCCAGATTGACCGCCAGCCACAGGCACGGGATCCAAGGTGGCAAAGTACCCTCA  
 AGACCACGGAGATGGAGACCATCTACGACTGGGTACCAAGATGATCGAGTCCCTGACCAAGGACAAGT  
 CCAGGCCGGAGAGCTCATCACCATTGACAAGGCCACCGCAAGATCTCCAAGCTGGGCCGCTCTTTCACA  
 CGTGCACGGGACTACGACCCATGGGCTCCAGACCAAGTTTGTGCAAGTCCAGACGGAGAGCTGCAGA  
 AACGCAAGGAGGTGGTGCACACCGTGTCCCTCCATGAGATTGACGTCATCAACTCCCGTACTCAGGGCTT  
 CCTGGCCCTCTTCTCAGGAGACACAGGGGAGATCAAGTCAGAAGTCCGAGAACAGATCAATGCAAAGGTG  
 GCTGAGTGGAGAGAGGAGGGCAAGGCAGAGATCATTCTGGGGTGTGTTTCATCGACGAGGTCCACATGC  
 TGGACATTGAGAGTTTCTTTCTCAACCGGGCCCTGGAGAGCGACATGGCGCCTGTCTCATCATGGC  
 CACCAACCGAGGGATCACCCGGATCCGAGGCACAGCTACCAGAGTCCCCACGGCATCCCCATCGACCTG  
 CTGGACCCTTGTCTATTGTATCAACGTCACCCACAGTGAGAAGGATACCAAGCAGATTCTGCGCATCC  
 GCTGTGAGGAGGAAGATGTGGAGATGAGTGAGGACGCCTACACAGTGTGACCCGATTGGGCTCGAGAC  
 CTCCTTGCCTATGCCATCCAGCTCATCACAGCGGCCAGCCTGGTGTGCCGAAACGAAAGGGCACCGAG  
 GTGCAAGTTCGATGACATTAAGCGTGTATACTCCCTCTTCTGGATGAATCCCGCTCCACACAGTACATGA  
 AGGAGTACCAAGATGCCTTCTTCTCAATGAGCTCAAAGGCGAAACAATGGACACCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226444 protein sequence  
 Red=Cloning site Green=Tags(s)

MATVAATTKVPEIRDVTRIERIGAHSHIRGLGLDDALEPRQASQGMVQQLAARRAAGVVLEMIREGKIAG  
 RAVLIAGQPGTGKTAIAMGMAQALGPDTPFTAIAGSEIFSLEMSKTEALQAFRRSIGVRIKEETEIEG  
 EVVEIQIDRPATGTGSKVGKLTLLKTTMETIYDLGTMIESLTKDKVQAGDVITIDKATGKISKLGRSFT  
 RARDYDAMGSQTKFVQCPDDELQKRKEVVHTVSLHEIDVINSRTQGFLALFSGDTGEIKSEVREINAKV  
 AEWREEGKAEIIPGVLFIDEVHMLDIESFSFLNRALESMDAPVLIIMATNRGITRIRGTSYQSPHGIPIDL  
 LDRLLIVSTSPYSEKDTKQILRIRCEEEDVEMSEDAYTVLTRIGLETSLRYAIQLITAASLVCRKRKGTG  
 VQVDDIKRVYSLFLDESSTQYMKYQDAFLFNELKGETMDS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_011304

**ORF Size:** 1392 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\\_011304.3](#), [NP\\_035434.1](#)

**RefSeq Size:** 1675 bp

**RefSeq ORF:** 1392 bp

**Locus ID:** 20174

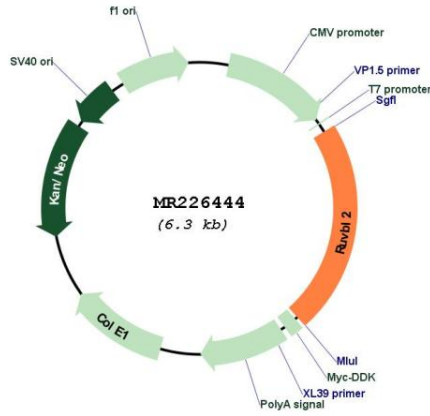
**UniProt ID:** [Q9WTM5](#)

**Cytogenetics:** 7 B3

**MW:** 51.1 kDa

**Gene Summary:** Possesses single-stranded DNA-stimulated ATPase and ATP-dependent DNA helicase (5' to 3') 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 MR226444