

Product datasheet for **RC200933**

RUVBL2 (NM_006666) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RUVBL2 (NM_006666) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RUVBL2
Synonyms:	CGI-46; ECP-51; ECP51; INO80J; REPTIN; RVB2; TAP54-beta; TIH2; TIP48; TIP49B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC200933 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAACCGTTACAGCCACAACCAAAGTCCCGGAGATCCGTGATGTAACAAGGATTGAGCGAATCGGTG
 CCCACTCCACATCCGGGACTGGGGCTGGACGATGCCTTGGAGCCTCGGCAGGCTTCGCAAGGCATGGT
 GGGTCAGCTGGCGGCACGGCGGGCGCTGGCGTGGTGGTGGAGATGATCCGGGAAGGGAAGATTGCCGGT
 CGGGCAGTCCTTATTGCTGGCCAGCCGGGCACGGGAAGACGGCCATCGCCATGGGCATGGCGCAGGCC
 TGGGCCCTGACACGCCATTACAGCCATCGCCGGCAGTAAATCTTCTCCCTGGAGATGAGCAAGACCGA
 GGCGCTGACGCAGGCCTTCGGCGGTCCATCGCGTTCGCATCAAGGAGGAGACGGAGATCATCGAAGGG
 GAGGTGGTGGAGATCCAGATTGATCGACCAGCAACAGGGACGGGCTCCAAGGTGGCAAACCTGACCCTCA
 AGACCACAGAGATGGAGACCATCTACGACTGGGCACCAAGATGATTGAGTCCCTGACCAAGGACAAGGT
 CCAGGCCGGGACGTGATCACCATCGACAAGGCGACGGCAAGATCTCCAAGCTGGGCCGCTCCTTACA
 CGCGCCCGCGACTACGACGCTATGGGCTCCCAGACCAAGTTCGTGCAAGTCCAGATGGGGAGCTCCAGA
 AACGCAAGGAGGTGGTGCACACCGTGTCCCTGCACGAGATCGACGTCATCAACTCTCGCACCCAGGGCTT
 CCTGGCGCTCTTCTCAGGTGACACAGGGGAGATCAAGTCAGAAGTCCGTGAGCAGATCAATGCCAAGGTG
 GCTGAGTGGCGCAGGAGGGCAAGGCGGAGATCATCCCTGGAGTGTGTTTCATCGACGAGGTCCACATGC
 TGGACATCGAGAGCTTCTCTTCTCAACCGGGCCCTGGAGAGTGACATGGCGCCTGTCTGATCATGGC
 CACCAACCGTGGCATCACGGAATCCGGGGCACCAGCTACCAGAGCCCTCACGGCATCCCCATAGACCTG
 CTGGACCGGCTGCTTATCGTCTCCACCACCCCTACAGCGAGAAAGACACGAAGCAGATCCTCCGCATCC
 GTGCGGAGGAAGAAGATGTGGAGATGAGTGAGGACGCCTACACGGTGTGACCCGCATCGGGCTGGAGC
 GTCACCTGCGCTACGCCATCCAGCTCATCACAGCTGCCAGCTTGGTGTGCCGAAACGCAAGGGTACAGAA
 GTGCAGGTGGATGACATCAAGCGGTCTACTACTTCTCTGGACGAGTCCCGCTCCACGAGTACATGA
 AGGAGTACCAGGACGCTTCTCTTCAACGAACTCAAAGGCGAGACCATGGACACCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200933 protein sequence
 Red=Cloning site Green=Tags(s)

MATVTATTKVPEIRDVTRIERIGAHSHIRGLGLDDALEPRQASQGMVQQLAARRAAGVVLEMIREGKIAG
 RAVLIAGQPGTGKTAIAMGMAQALGPDTPFTAIAGSEIFSLEMSKTEALQAFRRSIGVRIKEETEIEG
 EVVEIQIDRPATGTGSKVGKLTLLKTTMETIYDLGTMIESLTKDKVQAGDVITIDKATGKISKLGRSFT
 RARDYDAMGSQTKFVQCPDDELQKRKEVVHTVSLHEIDVINSRTQGFLALFSGDTGEIKSEVREINAKV
 AEWREEGKAEIIPGVLFIDEVHMLDIESFSFLNRALESMPVLMATNRGITRIRGTSYQSPHGIPIDL
 LDRLLIIVSTTPYSEKDTKQILRIRCEEEDVEMSEDAYTVLTRIGLETSLRYAIQLITAASLVCRKRKGT
 VQVDDIKRVYSLFLDESSTQYMKYQDAFLFNELKGETMDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6075_c03.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN:

NM_006666

ORF Size:

1389 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:

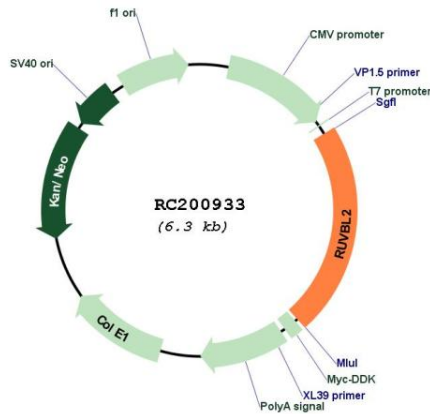
The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

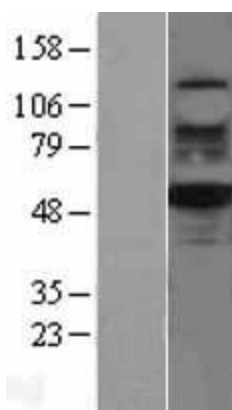
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_006666.3
RefSeq Size:	1488 bp
RefSeq ORF:	1392 bp
Locus ID:	10856
UniProt ID:	Q9Y230
Cytogenetics:	19q13.33
Domains:	AAA
Protein Families:	Transcription Factors
MW:	51.2 kDa
Gene Summary:	This gene encodes the second human homologue of the bacterial RuvB gene. Bacterial RuvB protein is a DNA helicase essential for homologous recombination and DNA double-strand break repair. Functional analysis showed that this gene product has both ATPase and DNA helicase activities. This gene is physically linked to the CGB/LHB gene cluster on chromosome 19q13.3, and is very close (55 nt) to the LHB gene, in the opposite orientation. [provided by RefSeq, Jul 2008]

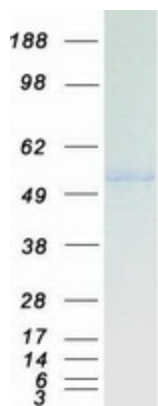
Product images:



Circular map for RC200933



Western blot validation of overexpression lysate (Cat# [LY401993]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200933 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RUVBL2 protein (Cat# [TP300933]). The protein was produced from HEK293T cells transfected with RUVBL2 cDNA clone (Cat# RC200933) using MegaTran 2.0 (Cat# [TT210002]).