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Product datasheet for RG200933

RUVBL2 (NM_006666) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RUVBL2 (NM_006666) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RUVBL2
Synonyms:	CGI-46; ECP-51; ECP51; INO80J; REPTIN; RVB2; TAP54-beta; TIH2; TIP48; TIP49B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG200933 representing NM_006666
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAACCGTTACAGCCACAACCAAAGTCCCGGAGATCCGTGATGTAACAAGGATTGAGCGAATCGGTG
CCCACTCCCACATCCGGGGACTGGGGCTGGACGATGCCTTGGAGCCTCGGCAGGCTTCGCAAGGCATGGT
GGGTCAGCTGGCGGCACGGCGGGCGGCTGGCGTGGTGCTGGAGATGATCCGGGAAGGGAAGATTGCCGGT
CGGGCAGTCCTTATTGCTGGCCAGCCGGGCACGGGGAAGACGGCCATCGCCATGGGCATGGCGCAGGCCC
TGGGCCCTGACACGCCATTCACAGCCATCGCCGGCAGTGAAATCTTCTCCCTGGAGATGAGCAAGACCGA
GGCGCTGACGCAGGCCTTCCGGCGGTCCATCGGCGTTCGCATCAAGGAGGAGACGGAGATCATCGAAGGG
GAGGTGGTGGAGATCCAGATTGATCGACCAGCAACAGGGACGGGCTCCAAGGTGGGCAAACTGACCCTCA
AGACCACAGAGATGGAGACCATCTACGACCTGGGCACCAAGATGATTGAGTCCCTGACCAAGGACAAGGT
CCAGGCCGGGGACGTGATCACCATCGACAAGGCGACGGGCAAGATCTCCAAGCTGGGCCGCTCCTTCACA
CGCGCCCGCGACTACGACGCTATGGGCTCCCAGACCAAGTTCGTGCAGTGCCCAGATGGGGAGCTCCAGA
AACGCAAGGAGGTGGTGCACACCGTGTCCCTGCACGAGATCGACGTCATCAACTCTCGCACCCAGGGCTT
CCTGGCGCTCTTCTCAGGTGACACAGGGGAGATCAAGTCAGAAGTCCGTGAGCAGATCAATGCCAAGGTG
GCTGAGTGGCGCGAGGAGGGCAAGGCGGAGATCATCCCTGGAGTGCTGTTCATCGACGAGGTCCACATGC
TGGACATCGAGAGCTTCTCCTTCCTCAACCGGGCCCTGGAGAGTGACATGGCGCCTGTCCTGATCATGGC
CACCAACCGTGGCATCACGCGAATCCGGGGCACCAGCTACCAGAGCCCTCACGGCATCCCCATAGACCTG
CTGGACCGGCTGCTTATCGTCTCCACCACCCCCTACAGCGAGAAAGACACGAAGCAGATCCTCCGCATCC
GGTGCGAGGAAGAAGATGTGGAGATGAGTGAGGACGCCTACACGGTGCTGACCCGCATCGGGCTGGAGAC
GTCACTGCGCTACGCCATCCAGCTCATCACAGCTGCCAGCTTGGTGTGCCGGAAACGCAAGGGTACAGAA
GTGCAGGTGGATGACATCAAGCGGGTCTACTCACTCTTCCTGGACGAGTCCCGCTCCACGCAGTACATGA
AGGAGTACCAGGACGCCTTCCTCTTCAACGAACTCAAAGGCGAGACCATGGACACCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

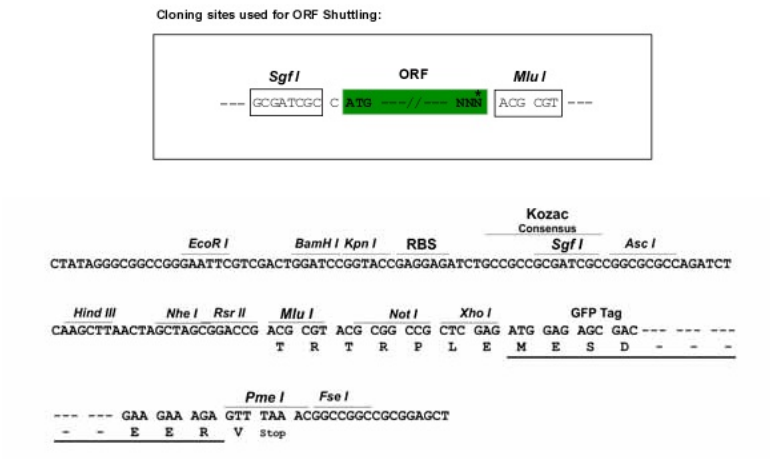
>RG200933 representing NM_006666
Red=Cloning site Green=Tags(s)

MATVTATTKVPEIRDVTRIERIGAHSHIRGLGLDDALEPRQASQGMVGQLAARRAAGVVLEMIREGKIAG
RAVLIAGQPGTGKTAIAMGMAQALGPDTPFTAIAGSEIFSLEMSKTEALTQAFRRSIGVRIKEETEIIEG
EVVEIQIDRPATGTGSKVGKLTLKTTEMETIYDLGTKMIESLTKDKVQAGDVITIDKATGKISKLGRSFT
RARDYDAMGSQTKFVQCPDGELQKRKEVVHTVSLHEIDVINSRTQGFLALFSGDTGEIKSEVREQINAKV
AEWREEGKAEIIPGVLFIDEVHMLDIESFSFLNRALESDMAPVLIMATNRGITRIRGTSYQSPHGIPIDL
LDRLLIVSTTPYSEKDTKQILRIRCEEEDVEMSEDAYTVLTRIGLETSLRYAIQLITAASLVCRKRKGTE
VQVDDIKRVYSLFLDESRSTQYMKEYQDAFLFNELKGETMDTS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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.

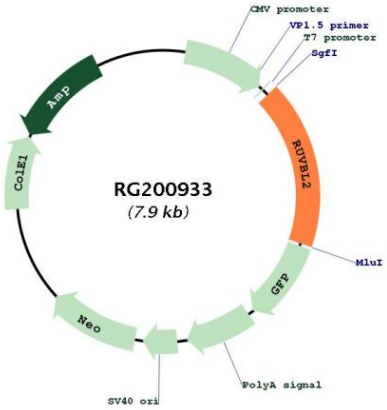
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.

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
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 RG200933