

## Product datasheet for **RC234146**

### DDX19B (NM\_001257172) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DDX19B (NM_001257172) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DDX19B
Synonyms:	DBP5; DDX19; RNAh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234146 representing NM\_001257172  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTGGGGCTGCCGGCGCGTCCAAGATCGCGCCCTGCGGCGTTCATCACCTGCCTGTGGCG  
 ACTTGAGCAACTTGCATCTTAAGGAAGAGAAAATCAAACCAGATACCAATGGTGCTGTTGCAAGACCAA  
 TGCCAATGCAGAGAAGACAGATGAAGAAGAGAAAAGAGGACAGAGCTGCCAGTCTTACTCAACAAGCTG  
 ATCAGAAGCAACCTTGTGATAACACAAACCAAGTGAAGTCTGCAGCGGGATCCAAACTCCCCTCTGT  
 ACTCGGTGAAGTCTTTGAAGAGCTTCGGCTCCCACAGAACTTAATTGCCAATCTCAGTCTGGTACTGG  
 TAAACAGCTGCCTTCGTGCTGGCCATGCTTAGCCAAGTAGAACCTGCAAACAAATACCCCCAGTGTCTA  
 TGTCTCTCCCAACGTATGAGCTCGCCCTCAAACAGGAAAAGTATTGAACAAATGGGCAAATTTTACC  
 CTGAAGTGAAGCTAGCTTATGCTGTTGAGGCAATAAATTGAAAAGAGGCCAGAAGATCAGTGAAGCAGAT  
 TGTCAATGGCACCCCTGGGACTGTGCTGGACTGGTGTCTCAAGCTCAAGTTCATTGATCCCAAGAAAATC  
 AAGGTGTTTGTTCGGATGAGGCTGATGTCATGATAGCCACTCAGGGCCACCAAGATCAGAGCATCCGCA  
 TCCAGAGGATGCTGCCAGGAAGTCCAGATGCTGCTTTTCTCCGCCACCTTTGAAGACTCTGTGTGGAA  
 GTTTGCCAGAAAGTGGTCCCAGACCAACGTTATCAAAGTGAAGCGTGAAGGAGACCTGGACACC  
 ATCAAGCAGTACTATGTCCTGTGCAGCAGCAGAGACGAGAAGTCCAGGCCTTGTGTAACCTCTACGGGG  
 CCATCACCATTGCTCAAGCCATGATCTTCTGCCATACTCGAAAACAGCTAGTTGGCTGGCAGCAGAGCT  
 CTAAAAGAAGGCCACCAGGTGGCTCTGCTGAGTGGGGAGATGATGGTGAACAGAGGGCTGCAGTGATT  
 GAGCGCTTCCGAGAGGGCAAAGAGAAGGTTTGGTGACCACCAACGTGTGTGCCCGGCCATTGATGTTG  
 AACAAGTGTCTGCTCATCAACTTTGATCTTCCCGTGGACAAGGACGGGAATCTGACAATGAGACCTA  
 CCTGCACCGGATCGGGCGCACGGGCCGCTTTGGCAAGAGGGGCCTGGCAGTGAACATGGTGGACAGCAAG  
 CACAGCATGAACATCCTGAACAGAATCCAGGAGCATTTTAATAAGAAGATAGAAAGATTGGACACAGATG  
 ATTTGGACGAGATTGAGAAAATAGCCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234146 representing NM\_001257172  
 Red=Cloning site Green=Tags(s)

MAGAAGRVDRLRRFPITLPVGDLSNLHLKEEKIKPDTNGAVVKTNANAECTDEEEKEDRAAQSLNKL  
 IRSNLVDNTNQVEVLQRDPNSPLYSVKSFEELRLPQNLIAQSQSGTGKTA AFLVLA ML SQVEPANKYPQCL  
 CLSPTYELALQTGKVIEMGKFYPELKLAYAVRGNKLERGQKISEQIVIGTPGTVLDWCSKLFIDPKKI  
 KVFVLDEADVMIATQGHQDQSIRIQRMLPRNCQMLLFSATFEDSVWKFQKVVDPNVIKLR EEEETLDT  
 IKQYYVLCSSRDEKFAQLCNLYGAIITIAQAMIFCHTRKTASWLAEL SKEGHQVALLSGEMMVEQRAAVI  
 ERFREGKEKVLVTTNVCARGIDVEQVSVVINFDLPVDKDGNPDNETYLHRI GRTGRFGKRGLAVNMVDSK  
 HSMNILNRIQEHFNKKIERLDTDDLDEIEKIAN

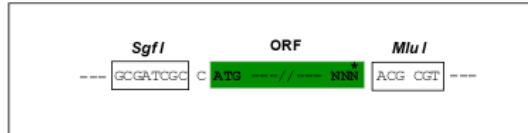
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001257172

**ORF Size:** 1359 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\\_001257172.2](#)
**RefSeq Size:** 1661 bp

**RefSeq ORF:** 1362 bp

**Locus ID:** 11269

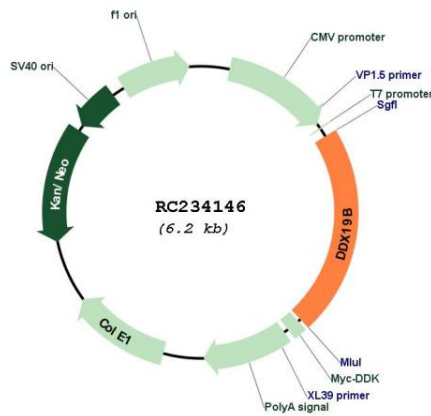
**UniProt ID:** [Q9UMR2](#)

**Cytogenetics:** 16q22.1

**MW:** 51.5 kDa

**Gene Summary:** DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box protein, which exhibits RNA-dependent ATPase and ATP-dependent RNA-unwinding activities. This protein is recruited to the cytoplasmic fibrils of the nuclear pore complex, where it participates in the export of mRNA from the nucleus. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC234146