

## Product datasheet for **RC200760**

### **DDX19B (NM\_007242) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DDX19B (NM_007242) 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:**

>RC200760 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCCACTGACTCATGGCCCTGGCGGTGGACGAGCAGGAAGCTGCGGTGAGTCGTTGAGCAACTTGC  
 ATCTTAAGGAAGAGAAAATCAAACCAGATACCAATGGTGTCTGTTGTCAAGACCAATGCCAATGCAGAGAA  
 GACAGATGAAGAAGAGAAAAGAGGACAGAGCTGCCAGTCTTACTCAACAAGCTGATCAGAAGCAACCTT  
 GTTGATAACACAAACCAAGTGAAGTCTCTGCAGCGGGATCCAACTCCCCTCTGTACTCGGTGAAGTCTT  
 TTGAAGAGCTTCGGCTGAAACCACAGCTTCTCAAAGGAGTCTATGCCATGGGTTTCAATCGTCCATCCAA  
 GATACAAGAGAACGCATTGCCACTGATGCTTGTGAGCCCCACAGAACTAATTGCCAATCTCAGTCT  
 GGTACTGGTAAAACAGCTGCCTTCGTGTGCCATGCTTAGCCAAGTAGAACCTGCAAACAATACCCCC  
 AGTGTCTATGTCTCTCCCAACGTATGAGCTCGCCCTCAAACAGGAAAAGTGATTGAACAATGGGCAA  
 ATTTTACCCTGAAGCTAGCTTATGCTGTTGAGGCAATAAATTGAAAAGAGGCCAGAAGATCAGT  
 GAGCAGATTGTCATTGGCACCCCTGGGACTGTGCTGGACTGGTGTCCAAGCTCAAGTTCATTGATCCCA  
 AGAAAAACAAGGTGTTTGTCTGGATGAGGCTGATGTCATGATAGCCACTCAGGGCCACCAAGATCAGAG  
 CATCCGCATCCAGAGGATGCTGCCAGGAACTGCCAGATGCTGCTTTTCTCCGCCACCTTGAAGACTCT  
 GTGTGGAAGTTTGCCAGAAAGTGGTCCAGACCCAAACGTTATCAAAGTGAAGCGTGAGGAAGAGACCC  
 TGGACACCATCAAGCAGTACTATGTCTGTGCAGCAGCAGAGACGAGAAGTTCAGGCCTTGTGTAACCT  
 CTACGGGGCCATCACCATTGCTCAAGCCATGATCTTCTGCCATACTCGCAAAACAGCTAGTTGGCTGGCA  
 GCAGAGCTCTCAAAGAAGGCCACCAGGTGGCTCTGCTGAGTGGGAGATGATGGTGAACAGAGGGCTG  
 CAGTGATTGAGCGCTTCGAGAGGGCAAAGAGAAGGTTTGGTGACCACCAACGTGTGTGCCCGCGCAT  
 TGATGTTGAACAAGTGTCTGTCTGCATCAACTTTGATCTTCCCGTGGACAAGGACGGGAATCCTGCAAT  
 GAGACCTACCTGCACCGGATCGGGCGCACGGGCCGCTTTGGCAAGAGGGCCTGGCAGTGAACATGGTGG  
 ACAGCAAGCACAGCATGAACATCCTGAACAGAATCCAGGAGCATTTTAATAAGAAGATAGAAGATTGGA  
 CACAGATGATTTGGACGAGATTGAGAAAATAGCCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC200760 protein sequence  
 Red=Cloning site Green=Tags(s)

MATDSWALAVDEQEAAAESLSNLHLKEEKIKPDTNGAVVKTNANA EKTD EEEKEDRAAQSLLNKLI RSNL  
 VDNTNQVEVLQRDPNSPLYSVKSFEELRLKPQLLQGVYAMGFNRPSKI QENALPLMLAEPQNLIAQSQS  
 GTGKTAAFVLA MLSQVEPANKYPQCLCLSPTYELALQTGKVIEQMKGFPYELKLAYAVRGNKLERGQKIS  
 EQIVIGTPGTVL DWCSKLFIDPKIKVFLDEADVMIATQGHQDQSIRIQRMLPRNCQMLLF SATFEDS  
 VWKFAQKVVPDPNVIKLKREEETLDTIKQYYVLCSSRDEK FQALCNLYGAI TIAQAMIFCHTRKTASWLA  
 AELSKEGHQVALLSGEMMVEQRAAVIERFREGKEKVLVTNVCARGIDVEQVSVVINFDLPV DKGNDPN  
 ETYLHRIGRTGRFGKRGLAVNMVDSKHSMNILNRIQE HFNKKIERLDTDDLDEIEKIAN

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6155\\_b10.zip](https://cdn.origene.com/chromatograms/mk6155_b10.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_007242

**ORF Size:** 1437 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\\_007242.7](#)
**RefSeq Size:** 1829 bp

**RefSeq ORF:** 1440 bp

**Locus ID:** 11269

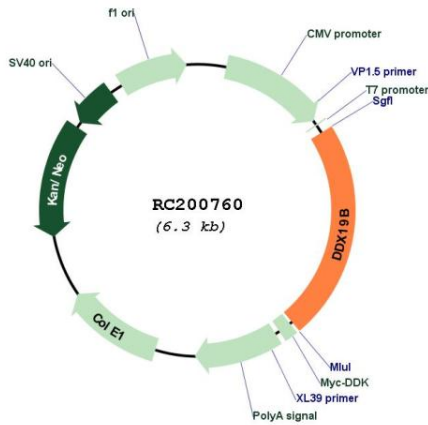
**UniProt ID:** [Q9UMR2](#)
**Cytogenetics:** 16q22.1

**Domains:** DEAD, helicase\_C

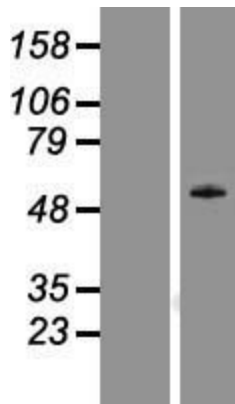
**MW:** 53.9 kDa

**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]

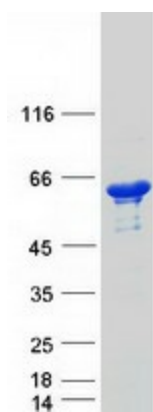
**Product images:**



Circular map for RC200760



Western blot validation of overexpression lysate (Cat# [LY416102]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200760 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DDX19B protein (Cat# [TP300760]). The protein was produced from HEK293T cells transfected with DDX19B cDNA clone (Cat# RC200760) using MegaTran 2.0 (Cat# [TT210002]).