

Product datasheet for RC203416

DDX19B (NM_001014449) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX19B (NM_001014449) 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)
ORF Nucleotide Sequence:	>RC203416 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTTTCAATCGTCCATCCAAGATACAAGAGAACGCATTGCCACTGATGCTTGCTGAGCCCCACAGA
ACTTAATTGCCCAATCTCAGTCTGGTACTGGTAAAACAGCTGCCTTCGTGCTGGCCATGCTTAGCCAAGT
AGAACCTGCAAACAATACCCCCAGTGTCTATGTCTCTCCCCAACGTATGAGCTCGCCCTCAAACAGGA
AAAGTGATTGAACAAATGGCAAATTTTACCCTGAAGCTAGCTTATGCTGTTGAGGCAATAAAT
TGGAAAGAGGCCAGAAGATCAGTGAGCAGATTGTCATTGGCACCCCTGGGACTGTGCTGGACTGGTGCTC
CAAGCTCAAGTTCATTGATCCCAAGAAAATCAAGGTGTTTGTCTGGATGAGGCTGATGTCATGATAGCC
ACTCAGGGCCACCAAGATCAGAGCATCCGCATCCAGAGGATGCTGCCAGGAACTGCCAGATGCTGCTTT
TCTCCGCCACCTTTGAAGACTCTGTGTGGAAGTTTGCCAGAAAAGTGGTCCCAGACCCAAACGTTATCAA
ACTGAAGCGTGAGGAAGAGACCCCTGGACACCATCAAGCAGTACTATGTCTGTGCAGCAGCAGAGACGAG
AAGTTCAGGCCCTTGTAACCTCTACGGGGCCATCACCATTGCTCAAGCCATGATCTTCTGCCATACTC
GCAAAACAGCTAGTTGGCTGGCAGCAGAGCTCTCAAAGAAGGCCACCAGGTGGCTCTGCTGAGTGGGA
GATGATGGTGAACAGAGGGCTGCAGTGATTGAGCGCTCCGAGAGGGCAAAGAGAAGGTTTTGGTGACC
ACCAACGTGTGTCGCCGCGCATTGATGTTGAACAAGTGTCTGTGTCATCAACTTTGATCTTCCCGTGG
ACAAGGACGGGAATCCTGACAATGAGACCTACCTGCACCGGATCGGGCGCACGGGCCGCTTTGGCAAGAG
GGGCTGGCAGTGAACATGGTGGACAGCAAGCACAGCATGAACATCCTGAACAGAATCCAGGAGCATTTT
AATAAGAAGATAGAAAGATTGGACACAGATGATTTGGACGAGATTGAGAAAATAGCCAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203416 protein sequence
Red=Cloning site Green=Tags(s)

MGFNRPSKIQENALPLMLAEPQNLIAQSQSGTGKTAAFVLAMLSQVEPANKYPQCLCLSPTYELALQTG
 KVIEQMGKFYPPELKLAYAVRGNKLERGQKISEQIVIGTPGTVLDWCSKLFIDPKKIKVFLDEADVMIA
 TQGHQDQSIRIQRMLPRNCQMLLF SATFEDSVWKFAQKVVPDPNVIKLKREEETLDTIKQYVVLCSRDE
 KFQALCNLYGAIITIAQAMIFCHTRKTASWLAELSKEGHQVALLSGEMMVEQRAAVIERFREGKEKVLVT
 TNVCARGIDVEQVSVVINFDLPVDKDGNPDNETYLHRIIGRTGRFGKRGRLAVNMVDSKHSMNILNRIQEHF
 NKKIERLDTDDLDEIEKIAN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6672_h07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001014449

ORF Size: 1110 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001014449.3](#)

RefSeq Size: 1726 bp

RefSeq ORF: 1113 bp

Locus ID: 11269

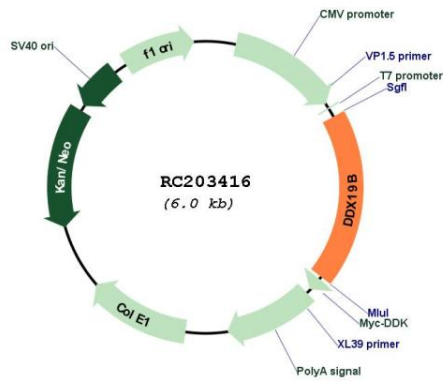
UniProt ID: [Q9UMR2](#)

Cytogenetics: 16q22.1

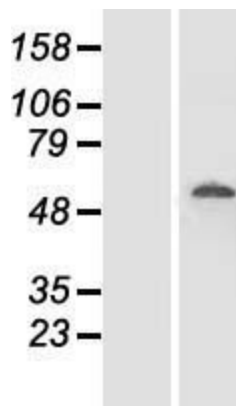
MW: 41.8 kDa

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 RC203416



Western blot validation of overexpression lysate (Cat# [LY423072]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203416 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).