

Product datasheet for **RG203416**

DDX19B (NM_001014449) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	DDX19B
Synonyms:	DBP5; DDX19; RNAh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG203416 representing NM_001014449
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGTTTCAATCGTCCATCCAAGATACAAGAGAAGCGATTGCCACTGATGCTTGCTGAGCCCCACAGA
ACTTAATTGCCAATCTCAGTCTGGTACTGGTAAAACAGCTGCCTTCGTGCTGGCCATGCTTAGCCAAGT
AGAACCTGCAACAAATACCCCCAGTGTCTATGTCTCTCCCAACGTATGAGCTCGCCCTCCAAACAGGA
AAAGTGATTGAACAAATGGGCAATTTTACCCTGAAGCTAGCTTATGCTGTTGAGGCAATAAAT
TGGAAAGAGGCCAGAAGATCAGTGAGCAGATTGTCATTGGCACCCCTGGGACTGTGCTGGACTGGTGCTC
CAAGCTCAAGTTTATTGATCCCAAGAAAATCAAGGTGTTTGTCTGGATGAGGCTGATGTCATGATAGCC
ACTCAGGGCCACCAAGATCAGAGCATCCGATCCAGAGGATGCTGCCAGGAAGTCCAGATGCTGCTTT
TCTCCGCCACCTTTGAAGACTCTGTGTGGAAGTTGCCAGAAAGTGGTCCAGACCCAAACGTTATCAA
ACTGAAGCGTGAGGAAGAGACCTGGACACCATCAAGCAGTACTATGTCTGTGCAGCAGCAGAGACGAG
AAGTTCCAGGCCTTGTGTAACCTCTACGGGGCCATCACCATTGCTCAAGCCATGATCTTCTGCCATACTC
GCAAAACAGCTAGTTGGCTGGCAGCAGAGCTCTCAAAAGAAGGCCACCAGGTGGCTCTGCTGAGTGGGA
GATGATGGTGGAACAGAGGGCTGCAGTGATTGAGCGCTTCCGAGAGGGCAAAGAGAAGGTTTGGTGACC
ACCAACGTGTGTGCCCGCGCATTGATGTTGAACAAGTGTCTGTCTCATCAACTTTGATCTTCCCGTGG
ACAAGGACGGGAATCCTGACAATGAGACCTACCTGCACCGGATCGGGCGCACGGGCCGCTTTGGCAAGAG
GGGCTTGGCAGTGAACATGGTGGACAGCAAGCAGCATGAACATCCTGAACAGAATCCAGGAGCATTTT
AATAAGAAGATAGAAAGATTGGACACAGATGATTGGACGAGATTGAGAAAATAGCCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG203416 representing NM_001014449

Red=Cloning site Green=Tags(s)

MGFNRPSTKIENALPLMLAEPQNLIAQSQSGTGKTAAFVLAMLSQVEPANKYPQCLCLSPYELALQTG
KVIEQMGKFYPELKLAYAVRGNKLERGQKISEQIVIGTPGTVDWCCKLKFIDPKKIKVFLDEADVMIA
TQGHQDQSIRIQRMLPRNCQMLLFSATFEDSVWKFAQKVVPDNPVILKREEETLDTIKQYYVLCSSRDE
KFQALCNLYGAITIAQAMIFCHTRKTASWLAELSKEGHQVALLSGEMMVEQRAAVIERFREGKEKVLVT
TNVCARGIDVEQSVVINFDPVDKDGNDNETYLHRTGRFGKRGGLAVNMVDSKHSNMILNRIQEHF
NKKIERLDTDLDIEKIAN

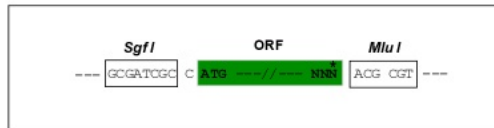
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCCGGAATTCGCTGACTGGATCCGTTACCGAGGAGATCTGCCGCCGCGATCGCCGCCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTACTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCGCCGAGCT

- - E E R V Stop

PmeI FseI

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:

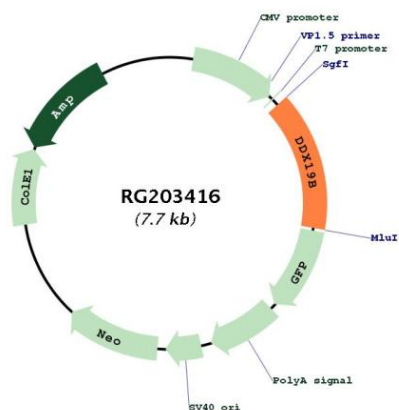
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_001014449.3</u>
RefSeq Size:	1728 bp
RefSeq ORF:	1113 bp
Locus ID:	11269
UniProt ID:	<u>Q9UMR2</u>
Cytogenetics:	16q22.1
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 RG203416