

Product datasheet for **RG234146**

DDX19B (NM_001257172) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX19B (NM_001257172) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DDX19B
Synonyms:	DBP5; DDX19; RNAh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234146 representing NM_001257172
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGGGGCTGCCGGGCGTCCAAGATCGCGCCCTGCGGCGTTCATCACCTGCCTGTGGGCG
 ACTTGAGCAACTTGCATCTTAAGGAAGAGAAAATCAAACCAGATACCAATGGTGTCTTGTCAAGACCAA
 TGCCAATGCAGAGAAGACAGATGAAGAAGAGAAAAGAGGACAGAGCTGCCAGTCTTACTCAACAAGCTG
 ATCAGAAGCAACCTTGTGATAACACAAACCAAGTGAAGTCTGCAGCGGGATCCAAACTCCCCTCTGT
 ACTCGGTGAAGTCTTTGAAGAGCTTCGGCTCCCACAGAATTAATTGCCAATCTCAGTCTGGTACTGG
 TAAACAGCTGCCTTCGTGCTGGCCATGCTTAGCCAAGTAGAACCTGCAAACAAATACCCCCAGTGTCTA
 TGTCTCTCCCAACGTATGAGCTCGCCCTCAAACAGGAAAAGTGATTGAACAAATGGGCAAAATTTACC
 CTGAAGTGAAGCTAGCTTATGCTGTTGAGGCAATAAATTGAAAAGAGGCCAGAAGATCAGTGAAGCAGAT
 TGTCAATTGGCACCCCTGGGACTGTGCTGGACTGGTGTCTCAAGCTCAAGTTCATTGATCCCAAGAAAATC
 AAGGTGTTTGTCTGGATGAGGCTGATGTCATGATAGCCACTCAGGGCCACCAAGATCAGAGCATCCGCA
 TCCAGAGGATGCTGCCAGGAAGTCCAGATGCTGCTTTTCTCCGCCACCTTTGAAGACTCTGTGTGGAA
 GTTTGCCAGAAAAGTGGTCCCAGACCCAAACGTTATCAAAGTGAAGCGTGAGGAAGAGACCTGGACACC
 ATCAAGCAGTACTATGTCCTGTGCAGCAGCAGAGACGAGAAGTCCAGGCCTTGTGTAACCTCTACGGGG
 CCATCACCATTGCTCAAGCCATGATCTTCTGCCATACTCGAAAACAGCTAGTTGGCTGGCAGCAGAGCT
 CTAAAAGAAGGCCACCAGGTGGCTCTGCTGAGTGGGGAGATGATGGTGGACAGAGGGCTGCAGTGATT
 GAGCGCTTCCGAGAGGGCAAAGAGAAGGTTTTGGTGACCACCAACGTGTGTGCCCGGCCATTGATGTTG
 AACAAAGTCTGTGTCATCAACTTTGATCTTCCCGTGGACAAGGACGGGAATCCTGACAATGAGACCTA
 CCTGCACCGGATCGGGCGCACGGGCCGCTTTGGCAAGAGGGGCCTGGCAGTGAACATGGTGGACAGCAAG
 CACAGCATGAACATCCTGAACAGAATCCAGGAGCATTTTAATAAGAAGATAGAAAGATTGGACACAGATG
 ATTTGGACGAGATTGAGAAAATAGCCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234146 representing NM_001257172
 Red=Cloning site Green=Tags(s)

MAGAAGRVDRALRRFPITLPVGDLSNLHLKEEKIKPDTNGAVVKTNANAECTDEEEKEDRAAQSLNKL
 IRSNLVDNTNQVEVLQRDPNSPLYSVKSFEELRLPQNLIASQSGTGKTAAFVLAMLSQVEPANKYPQCL
 CLSPTYELALQTGKVIEMGKFYPELKLAYAVRGNKLERGQKISEQIVIGTPGTVDWCSKLFIDPKKI
 KVFVLDEADVMIATQGHQDQSIRIQRMLPRNCQMLLFSATFEDSVWKFQKVVVDPNVIKLRKEEETLDT
 IKQYYVLCSSRDEKFFALCNLYGAIITIAQAMIFCHTRKTASWLAELKEGHQVALLSGEMMVEQRAAVI
 ERFREGKEKVLVTTNVCARGIDVEQVSVVINFDLPVDKGNPDNETYLHRIGRTGRFGKRLAVNMVDSK
 HSMNILNRIQEHFNKKIERLDTDDLDEIEKIAN

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


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

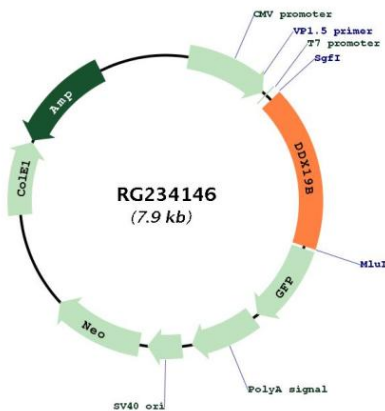
Locus ID: 11269

UniProt ID: [Q9UMR2](#)

Cytogenetics: 16q22.1

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 RG234146