

## Product datasheet for **RC219259**

### **DDX17 (NM\_001098504) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DDX17 (NM_001098504) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DDX17
Synonyms:	P72; RH70
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC219259 representing NM\_001098504  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

CTGCCACCGGCTTTGTAGCCCCGATTCTCTGTGTTTTGCTCCCGTCTCCGACGAGAGAGCGCGGACGG  
 TGGCGTCTGCGACGGGAGACAGCGCGTCGAGCGAGAGAGCGCTGCGCCTGCCGCCGCCAACAGCGGA  
 GCGCCCGCCGCCATCGGTCTGTCACCAGACCGGAGCCGAGGCCCTCCCGAGCCCGCCATCCGTGCCCG  
 CTCCAGATCTCTATCCTTTGGGACCATGCGCGGAGGAGGCTTTGGGACCGGGACCGGGATCGTGACC  
 GTGGAGGATTTGGAGCAAGAGGTGGTGGTGGCCTTCCCCGAAGAAATTTGGTAATCCTGGGAGCGTTT  
 GCGTAAAAAAGTGGGATTTGAGTGAGCTCCCCAAGTTTGAGAAAAATTTTATGTGGAACATCCGGAA  
 GTAGCAAGGCTGACACCATATGAGGTTGATGAGCTACGCCGAAAGAAGGAGATTACAGTGAGGGGGGAG  
 ATGTTTGTCTAAACCCGTGTTGCCTTCCATCATGCTAACTCCACAATATGTAATGGATGTGTTGAT  
 GGATCAGCACTTACAGAACCACTCCAATTCAGTGCCAGGGATTCCGTTGGCTCTTAGTGCCCGGGAT  
 ATGGTGGGCATTGCTCAGACTGGCTCTGGGAAGACGTTGGCGTATCTCCTGCCTGCAATGTTTCATATTA  
 ACCACCAGCCATACTTGAAAGGGGAGATGGCCCAATCTGTCTAGTTCTGGCTCCTACCAGAGAGCTTGC  
 CCAGCAAGTACAGCAGGTGGCCGATGACTATGGCAATGTTCTAGATTGAAGAGTACTTGTATTTATGGA  
 GGTGCTCCTAAAGGTCCCGAGATTCGAGACTTGAAAGAGGTGTTGAGATCTGCATAGCCACTCCTGGAC  
 GTCTGATAGATTTCTGGAGTCAGGAAAGACAAATCTTCGCCGATGTAATACCTTGTATTGGACGAAGC  
 TGACAGAATGCTTGATATGGGGTTTGAACCCAGATCCGTAATAATGTTGACCAATCAGGCCTGATAGG  
 CAGACACTGATGTGGAGTGCAACCTGGCCAAAAGAAGTAAGACAGCTTGCAGAGGATTTCCCTTCGTGAT  
 ACACCCAGATCAACGTAGGCAATCTGGAGTTGAGTGCCAACCACAACATCCTCCAGATAGTGGATGCTG  
 CATGGAAAGTGAAAAAGACCACAAGTTGATCCAATAATGGAAGAAATAATGGCTGAAAAGGAAAAACAAA  
 ACAATAATATTTGTGGAGACAAAGAGACGCTGTGATGATCTGACTCGAAGGATGCGCAGAGATGGTTGGC  
 CAGCTATGTGATCCATGGAGACAAGAGTCAACCAGAAAGAGATTGGGTAATTAAGTTCGGTCTGG  
 AAAGGCACCCATCCTTATTGCTACAGATGTAGCCTCCCGTGGGCTAGATGTGGAAGATGTCAAGTTTGTG  
 ATCAACTATGACTATCCAAACAGCTCAGAGGATTATGTGCACCGTATTGGCCGACAGCCCGTAGCACCA  
 ACAAGGGTACCGCTATACCTTCTCACCCAGGGAACCTAAAACAGGCCAGAGAGCTTATCAAAGTGCT  
 GGAAGAGGCCAATCAGGCTATCAATCCAAAAGTATGCAGCTTGTGGACCACAGAGGAGGCGCGGAGGC  
 GGGGGTAAGGGTGGTCTGTTCTCGTTACCGGACCACTTCTCAGCCAACAATCCCAATCTGATGTATCAGG  
 ATGAGTGTGACCGAAGGCTTCGAGGAGTCAAGGATGGTGGCCGGAGAGACTCTGCAAGCTATCGGGATCG  
 TAGTGAACCGATAGAGCTGGTTATGCTAATGGCAGTGGCTATGGAAGTCCAAATTCGCTTTGGAGCA  
 CAAGCAGGCCAATACACCTATGGTCAAGGCACCTATGGGGCAGCTGCTTATGGCACCAGTATACAG  
 CTCAAGAAATATGGTGTGGCACTTATGGAGCTAGTAGCACCACTCAACTGGGAGAAGTTCACAGAGCTC  
 TAGCCAGCAGTTTGTGGGATAGGCCGGTCTGGGCAGCAGCCACAGCCACTGATGTCACAACAGTTTGA  
 CAGCCTCCGGGAGCTACCAATATGATAGGTTACATGGGGCAGACTGCCTACCAATACCCTCCTCCTCCTC  
 CCCCTCCTCCTTACAGTAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC219259 representing NM\_001098504  
Red=Cloning site Green=Tags(s)

LPTGFVAPILCVLLPSPTREAAATVASATGDSASERESAAPAAAPTAEAPPPSVVTRPEPQALPSPAIRAP  
 LPDLYPFGTMRGGGFDRDRDRDRGGFGARGGGGLPPKKFGNPGERLRKKKDWLSELPKFEKNFYVEHPE  
 VARLTPYEVDLRRKKEITVRGGDVC PKPVFAFHANFPQYVMDVLMQHFTEPTIQCGFPLALSGRD  
 MVGIAQTGSGKTLAYLLPAIVHINHQPYLERGDGPICLVLAPTRELAQQVQQVADDDYKCSRLKSTCIYG  
 GAPKGPQIRDLERGV EIC IATPGRLIDFLESGKTNLRRCTYLVLDEADRLDMGFEPQIRKIVDQIRPDR  
 QTLMWSATWPKEVRQLAEDFLRDY TQINVG NLELSANHNILQIVDVCMSEKDHKLIQLMEEIMAEKENK  
 TIIFVETKRRCDL TRMR RDGWPAMCIHGDKSQPERDWLNEFRSGKAPIL IATDVASRGLDVEDVKFV  
 INYDYPNSSEDYVHRIGRTARSTNKGTA YTFFTP GN LKQARELIKVLEEANQAINPKMLQLVDHRRGGGG  
 GGKGGRSRYRTTSSANNPNLMYQDECDRRLRGVKDGGRRDSASYRDRSETDRAGYANGSGYSPNSAFGA  
 QAGQYTYGQGTGAAAYGTSSYTAQEY GAGTYGASSTTSTGRSSQSSSQFSGIGRSGQQPPLMSQQFA  
 QPPGATNMIGYMQTAYQYPPPPPPPPSRK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001098504

**ORF Size:** 2193 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\\_001098504.2](#)

**RefSeq Size:** 4811 bp

**RefSeq ORF:** 2196 bp

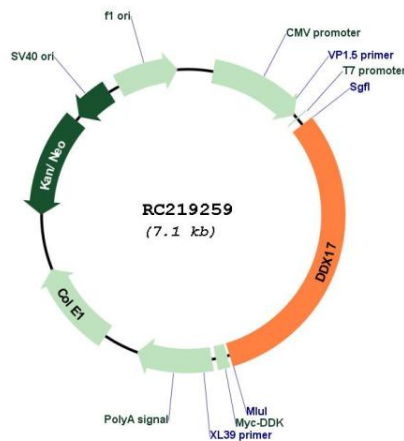
**Locus ID:** 10521

**Cytogenetics:** 22q13.1

**MW:** 80.4 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 is an ATPase activated by a variety of RNA species, but not by dsDNA. This protein, and that encoded by DDX5 gene, are more closely related to each other than to any other member of the DEAD box family. This gene can encode multiple isoforms due to both alternative splicing and the use of alternative translation initiation codons, including a non-AUG (CUG) start codon. [provided by RefSeq, Apr 2011]

### Product images:



Circular map for RC219259