

## Product datasheet for **RG200599**

### **DDX17 (NM\_006386) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DDX17 (NM_006386) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DDX17
Synonyms:	P72; RH70
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG200599 representing NM\_006386  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

CTGCCACCGGCTTTGTAGCCCCGATTCTCTGTGTTTTGCTCCCGTCTCCGACGAGAGAGCGCGCACGG  
 TGGCGTCTGCGACGGGAGACAGCGCGTCGAGCGAGAGAGCGCTGCGCCTGCCGCCGCCAACAGCGGA  
 GGCGCCGCCGCCATCGGTCGTCACCAGACCGGAGCCGAGGCCCTCCCGAGCCCGCCATCCGTGCCCG  
 CTCCAGATCTCTATCCTTTGGGACCATGCGCGGAGGAGGCTTTGGGACCGGGACCGGGATCGTGACC  
 GTGGAGGATTTGGAGCAAGAGGTGGTGGTGGCCTTCCCCGAAGAAATTTGGTAATCCTGGGAGCGTTT  
 GCGTAAAAAAGTGGGATTTGAGTGAGCTCCCCAAGTTTGAGAAAAATTTTATGTGGAACATCCGGAA  
 GTAGCAAGGCTGACACCATATGAGGTTGATGAGCTACGCCGAAAGAAGGAGATTACAGTGAGGGGGGAG  
 ATGTTTGTCTAAACCCGTGTTGCCTTCCATCATGCTAACTCCACAATATGTAATGGATGTGTTGAT  
 GGATCAGCACTTACAGAACCACTCCAATTCAGTGCCAGGGATTCCGTTGGCTCTTAGTGCCCGGGAT  
 ATGGTGGGCATTGCTCAGACTGGCTCTGGGAAGACGTTGGCGTATCTCCTGCCTGCAATGTTTCATATTA  
 ACCACCAGCCATACTTGAAAGGGGAGATGGCCCAATCTGTCTAGTTCTGGCTCCTACCAGAGAGCTTGC  
 CCAGCAAGTACAGCAGGTGGCCGATGACTATGGCAATGTTCTAGATTGAAGAGTACTTGTATTTATGGA  
 GGTGCTCCTAAAGGTCCCGAGATTCGAGACTTGAAAGAGGTGTTGAGATCTGCATAGCCACTCCTGGAC  
 GTCTGATAGATTTCTGGAGTCAGGAAAGACAAATCTTCGCCGATGACTTACCTTGTATTGGACGAAGC  
 TGACAGAATGCTTGATATGGGGTTTGAACCCAGATCCGTAATAATTTGACCAATCAGGCCTGATAGG  
 CAGACTGATGTGGAGTGAACCTGGCCAAAAGAAGTAAGACAGCTTGCAGAGGATTTCTTTCGTGATT  
 ACACCCAGATCAACGTAGGCAATCTGGAGTTGAGTGCCAACCACAACATCCTCCAGATAGTGGATGTCTG  
 CATGGAAAGTGAAAAGACCACAAGTTGATCCAATAATGGAAGAAATAATGGCTGAAAAGGAAAACAAA  
 ACAATAATATTTGTGGAGACAAAGAGACGCTGTGATGATCTGACTCGAAGGATGCGCAGAGATGGTTGGC  
 CAGCTATGTGATCCATGGAGACAAGAGTCAACCAGAAAGAGATTGGGTACTTAATGAGTCCGTTCTGG  
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 ATCAACTATGACTATCCAACAGCTCAGAGGATTATGTGCACCGTATTGGCCGACAGCCCGTAGCACCA  
 ACAAGGGTACCGCTATACCTTCTCACCCAGGGAACCTAAAACAGGCCAGAGAGCTTATCAAAGTGT  
 GGAAGAGGCCAATCAGGCTATCAATCCAAAAGTATGCAGCTTGTGGACCACAGAGGAGGCGCGGAGGC  
 GGGGGTGGTCTCTCGTTACCGGACCCTTCTCAGCCAACAATCCCAATCTGATGTATCAGGATGAGT  
 GTGACCGAAGGCTTCGAGGAGTCAAGGATGGTGGCCGGAGAGACTCTGCAAGCTATCGGGATCGTAGTGA  
 AACCGATAGAGCTGGTTATGCTAATGGCAGTGGCTATGGAAGTCCAAATTCGCTTTGGAGCACAAAGCA  
 GGCCAATACACCTATGGTCAAGGCACCTATGGGGCAGCTGCTTATGGCACCAGTAGCTATACAGCTCAAG  
 AATATGGTGTGGCACTTATGGAGCTAGTACACCACCTCAACTGGGAGAAGTTCACAGAGCTTAGCCA  
 GCAGTTTAGTGGGATAGGCCGGTCTGGGCAGCAGCCACAGCCACTGATGTCAACAGTTTGCACAGCCT  
 CCGGGAGCTACCAATATGATAGGTTACATGGGGCAGACTGCCTACCAATACCCTCCTCCTCCCCCTC  
 CTCTCCTTACGTAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200599 representing NM\_006386  
 Red=Cloning site Green=Tags(s)

LPTGFVAPILCVLLPSPTREAA TVASATGDSASERESAAPAAAPTAEAPPPSVVTRPEPQALPSPAIRAP  
 LPDLYPFGTMRGGGF GDRDRDRDRGGFGARGGGGLPPKKFGNPGERLRKKKDWLSELPKFEKNFYVEHPE  
 VARLTPYEVDLRRKKEITVRGGDVC PKPVFAFHANFPQYVMDVLMQHFTEPTPIQCQGFPLALSGRD  
 MVGIAQTGSGKTLAYLLPAIVHINHQPYLERGDGPICLVLAPTRELAQQVQQVADDDYGKCSRLKSTCIYG  
 GAPKGPQIRDLERGV EIC IATPGRLIDFLESGKTNLRRCTYLVLDEADRMLDMGFEPQIRKIVDQIRPDR  
 QTLMWSATWPKEVRQLAEDFLRDY TQINVG NLELSANHNILQIVDVCMSEKDHKLIQLMEEIMAEKENK  
 TIIFVETKRRCDL TRMRRDGWPAMCIHGDKSQPERDWLNEFRSGKAPIL IATDVASRGLDVEDVKFV  
 INYDYPNSSEDYVHRIGRTARSTNKGTAYTFFTPGNLQKARELIKVLEEANQAINPKMLQLVDHRRGGGG  
 GGGRSRYRTTSSANNPNLMYQDECDRRLRGVKDGGRRDSASYRDRSETDRAGYANGSGYGS PNSAFGAQA  
 GQYTYGQGTYGAAAYGTSSYTAQEY GAGTYGASSTTSTGRSSQSSSQQFSGIGRSGQQPQLMSQFAQP  
 PGATNMIGYMGQTAYQYPPPPPPPPSRK

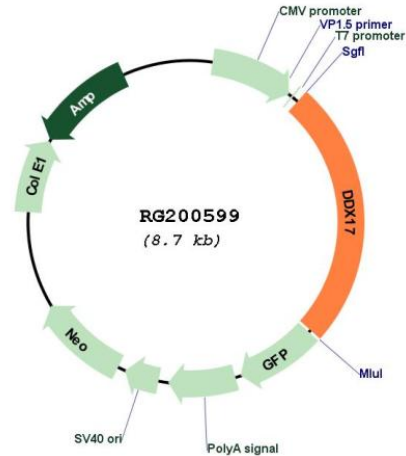
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_006386

**ORF Size:** 2187 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\\_006386.5](#)

**RefSeq Size:** 4761 bp

**RefSeq ORF:** 2190 bp

**Locus ID:** 10521

UniProt ID: [Q92841](#)

Cytogenetics: 22q13.1

Domains: DEAD, helicase\_C

**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]