

Product datasheet for **RC200599**

DDX17 (NM_006386) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX17 (NM_006386) 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)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC200599 representing NM_006386
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

CTGCCACCGGCTTTGTAGCCCCGATTCTCTGTGTTTTGCTCCCGTCTCCGACGAGAGAGCGCGGACGG
 TGGCGTCTGCGACGGGAGACAGCGCGTCGAGCGAGAGAGCGCTGCGCCTGCCGCCGCCAACAGCGGA
 GCGCCCGCCGATCGGTCGTCACCAGACCGGAGCCGAGGCCCTCCCGAGCCCGCCATCCGTGCCCG
 CTCCAGATCTCTATCCTTTGGGACCATGCGCGGAGGAGGCTTTGGGACCGGGACCGGGATCGTGACC
 GTGGAGGATTTGGAGCAAGAGGTGGTGGTGGCCTTCCCCGAAGAAATTTGGTAATCCTGGGAGCGTTT
 GCGTAAAAAAGTGGGATTTGAGTGAGCTCCCCAAGTTTGAGAAAAATTTTATGTGGAACATCCGGAA
 GTAGCAAGGCTGACACCATATGAGGTTGATGAGCTACGCCGAAAGAAGGAGATTACAGTGAGGGGGGAG
 ATGTTTGTCTAAACCCGTGTTGCCTTCCATCATGCTAACTCCACAATATGTAATGGATGTGTTGAT
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 ACCACCAGCCATACTTGAAAGGGGAGATGGCCCAATCTGTCTAGTTCTGGCTCCTACCAGAGAGCTTGC
 CCAGCAAGTACAGCAGGTGGCCGATGACTATGGCAATGTTCTAGATTGAAGAGTACTTGTATTTATGGA
 GGTGCTCCTAAAGGTCCCGAGATTCGAGACTTGAAAGAGGTGTTGAGATCTGCATAGCCACTCCTGGAC
 GTCTGATAGATTTCTGGAGTCAGGAAAGACAAATCTTCGCCGATGACTTACCTTGTATTGGACGAAGC
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 GGAAGAGGCCAATCAGGCTATCAATCCAAAAGTATGCAGCTTGTGGACCACAGAGGAGGCGCGGAGGC
 GGGGGTGGTCTGTTCTCGTTACCGGACCCTTCTCAGCCAACAATCCCAATCTGATGTATCAGGATGAGT
 GTGACCGAAGGCTTCGAGGAGTCAAGGATGGTGGCCGGAGAGACTCTGCAAGCTATCGGGATCGTAGTGA
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 GGCCAATACACCTATGGTCAAGGCACCTATGGGGCAGCTGCTTATGGCACCAGTAGCTATACAGCTCAAG
 AATATGGTGTGGCACTTATGGAGCTAGTACCACCTCAACTGGGAGAAGTTCACAGAGCTTAGCCA
 GCAGTTTAGTGGGATAGGCCGCTCTGGGCAGCAGCCACAGCCACTGATGTCAACAGTTTGCACAGCCT
 CCGGGAGCTACCAATATGATAGGTTACATGGGGCAGACTGCCTACCAATACCTCCTCCTCCCCCTC
 CTCTCCTTACGTAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200599 representing NM_006386
Red=Cloning site Green=Tags(s)

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LPTGFVAPILCVLLPSPTREAA TVASATGDSASERESAAPAAAPTAEAPPPSVVTRPEPQALPSPAIRAP
LPDLYPFGTMRGGGF GDRDRDRDRGGFGARGGGGLPPKKFGNPGERLRKKKDWLSELPKFEKNFYVEHPE
VARLTPYEVDLRRKKEITVRGGDVC PKPVFAFHANFPQYVMDVLMQHFTEPTPIQCQGFPLALSGRD
MVGIAQTGSGKTLAYLLPAIVHINHQP YLERGDGPICLVLAPTRELAQQVQQVADDDYKCSRLKSTCIYG
GAPKGPQIRDLERGV EIC IATPGRLIDFLESGKTNLRRCTYLVLDEADRMLDMGFEPQIRKIVDQIRPDR
QTLMWSATWPKEVRQLAEDFLRDY TQINVGNLELSANHNILQIVDVCMESEKDHKLIQLMEEIMAEKENK
TIIFVETKRRCDL TRMRRDGWPAMCIHGDKSQPERDWLNEFRSGKAPIL IATDVASRGLDVEDVKFV
IN DYPNSS EYVHRIGRTARSTNKGTAYTFFTPGNLKQARELIKVLEEANQAINPKMLQLVDHRRGGGGG
GGGRSRYRTTSSANNPNLMYQDECD RRLRGVKDGGRRDSASYRDRSETDRAGYANGSGYGS PNSAFGAQA
GQYTYGQGTYGAAAYGTSSYTAQEY GAGTYGASSTTSTGRSSQSSSQQFSGIGRSQQQPQLMSQQFAQP
PGATNMIGYMGQTAYQYPPPPPPPPSRK
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4879_g01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_006386

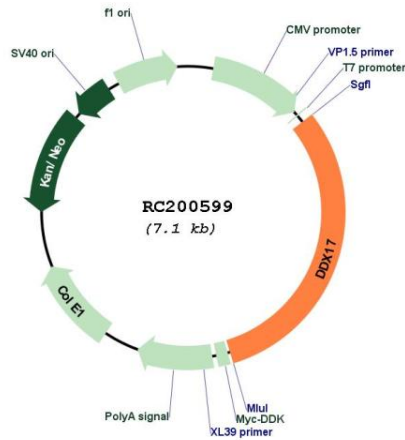
ORF Size: 2187 bp

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](#)

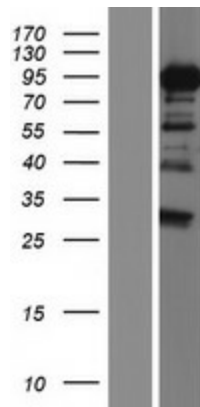
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none">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_006386.5</u>
RefSeq Size:	4805 bp
RefSeq ORF:	2190 bp
Locus ID:	10521
UniProt ID:	<u>Q92841</u>
Cytogenetics:	22q13.1
Domains:	DEAD, helicase_C
MW:	80.3 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]

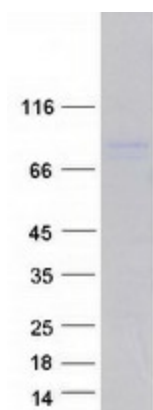
Product images:



Circular map for RC200599



Western blot validation of overexpression lysate (Cat# [LY416678]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200599 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DDX17 protein (Cat# [TP300599]). The protein was produced from HEK293T cells transfected with DDX17 cDNA clone (Cat# RC200599) using MegaTran 2.0 (Cat# [TT210002]).