

## Product datasheet for **RC200371**

### **DDX5 (NM\_004396) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DDX5 (NM_004396) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DDX5
Synonyms:	G17P1; HLR1; HUMP68; p68
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC200371 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCGGGTTATTCGAGTGACCGAGACCGCGCCGGGACCGAGGGTTTGGTGCACCTCGATTTGGAGGAA  
 GTAGGGCAGGGCCCTTATCTGGAAGAAGTTTGGAAACCCTGGGAGAAAATTAGTTAAAAAGAAGTGGAA  
 TCTTGATGAGCTGCCTAAATTTGAGAAGAATTTTATCAAGAGCACCTGATTTGGCTAGGCGCACAGCA  
 CAAGAGGTGGAACATACAGAAGAAGCAAGGAAATTACAGTTAGAGGTCACAACCTGCCCGAAGCCAGTTC  
 TAAATTTTATGAAGCAATTTCCCTGCAATGTCATGGATGTTATTGCAAGACAGAATTTCACTGAACC  
 CACTGCTATTCAAGCTCAGGGATGGCCAGTTGCTCTAAGTGGATTGGATATGGTTGGAGTGGCACAGACT  
 GGATCTGGGAAAACATTGCTTATTTGCTTCTGCCATTGTCCACATCAATCATCAGCCATTCTAGAGA  
 GAGGCGATGGGCCTATTTGTTTGGTGTGGCACCACCTCGGAACTGGCCCAACAGGTGCAGCAAGTAGC  
 TGCTGAATATTGTAGAGCATGTCGCTTGAAGTCTACTTGTATCTACGGTGGTGTCTTAAGGACCACAA  
 ATACGTGATTTGGAGAGAGGTGTGGAATCTGTATTGCAACACCTGGAAGACTGATTGACTTTTTAGAGT  
 GTGAAAAAACCAATCTGAGAAGAACAACCTACCTTGCCTTGATGAAGCAGATAGAATGCTTGATATGGG  
 CTTTGAACCCCAAATAAGGAAGATTGTGGATCAAATAAGACCTGATAGGCAAACTCTAATGTGGAGTGGC  
 ACTTGGCCAAAAGAAGTAAGACAGCTTGTGAAGATTTCTGAAAGACTATATTCATATAAACATTTGGTG  
 CACTTGAAGTGAAGTCAAACCAACATTTCTCAGATTGTGGATGTGTGTGATGACGTAGAAAAGGATGA  
 AAACTTATTCGTCTAATGGAAGAGATCATGAGTGAGAAGGAGAATAAAACCATTGTTTTTGGAAACC  
 AAAAGAAGATGTGATGAGCTTACCAGAAAAATGAGGAGAGATGGGTGGCTGCCATGGGTATCCATGGTG  
 ACAAGAGTCAACAAGAGCGTGACTGGGTTCTAAATGAATTCAAACATGGAAAAGCTCTATTCTGATTGC  
 TACAGATGTGGCCTCCAGAGGGCTAGATGTGGAAGATGTGAAATTTGTCATCAATTATGACTACCCTAAC  
 TCCTCAGAGGATTATTCATCGAATTGGAAGAACTGCTCGCAGTACAAAAACAGGCACAGCATACTT  
 TCTTTACACCTAATAACATAAAGCAAGTGAAGCAGCTTATCTCTGTGCTTCGTGAAGCTAATCAAGCAAT  
 TAATCCCAAGTTGCTTCAAGTTGGTGAAGACAGAGGTTCAAGTGTTCAGGGGTAGAGGAGGCATGAAG  
 GATGACCGTCGGGACAGATACTCTGCGGGCAAAAGGGTGGATTAATACCTTTAGAGACAGGGAAAATT  
 ATGACAGAGGTTACTCTAGCCTGCTTAAAAGAGATTTTGGGGCAAAAACCTCAGAATGGTGTTTACAGTGC  
 TGCAAATTACACCAATGGGAGCTTTGGAAGTAATTTTGTGTCTGCTGGTATACAGACCAGTTTTAGGACT  
 GGTAATCCAACAGGGACTTACCAGAATGGTTATGATAGCACTCAGCAATACGGAAGTAATGTTCCAATA  
 TGCACAATGGTATGAACCAACAGGCATATGCATATCCTGCTACTGCAGCTGCACCTATGATTGGTTATCC  
 AATGCCAACAGGATATCCCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC200371 protein sequence  
 Red=Cloning site Green=Tags(s)

MSGYSSDRDRGRDRGFGAPRFGGSRAGPLSGKKFGNPGEKLVKKKWNLDLDPKFEKNFYQEHPDLARRTA  
 QEVETYYRSKEITVRGHNCPKPVLFNFEANFPANVMDVIARQNFTEPTAIQAQGWVVALSGLDMVGAQT  
 GSGKTL SYLLPAIVHINHQPFLERGDGPICLVLAPTRELAQQVQVAAEYCRACRLKSTCIYGGAPKGPQ  
 IRDLERGV EIC IATPGRLIDFLECGKTNLRRTTYLVLDEADRMLDMGFEPQIRKIVDQIRPDRQTLMWSA  
 TWPKEVRQLAEDFLKDYIHINIGALELSANHNILQIVDVCHDVEKDEKLIRLMEEIMSEKENKTIVFVET  
 KRRCEDELTRKMRRDGWPAMGIHGDKSQQERDWLNEFKHGKAPIL IATDVASRGLDVEDVKFVINVDYPN  
 SSEDYIHRIGRTARSTKTGTAYFFTPNNIKQVSDLISVLREANQAINPKLLQLVEDRSGRSRGRGGMK  
 DRRDRYSAGKRGGFNTFRDRENYDRGYSSLLKRDFGAKTQNGVYSAANYTNGSFGSNFV SAGIQT SFRT  
 GNPTGTQNGYDSTQQYGSNVPNMHNGMNQQAYAYPATAAAPMIGYPMPTGYSQ

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6153\\_e09.zip](https://cdn.origene.com/chromatograms/mk6153_e09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004396

**ORF Size:** 1842 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:** [NM\\_004396.5](#)

**RefSeq Size:** 3769 bp

RefSeq ORF: 1845 bp

Locus ID: 1655

UniProt ID: [P17844](#)

Cytogenetics: 17q23.3

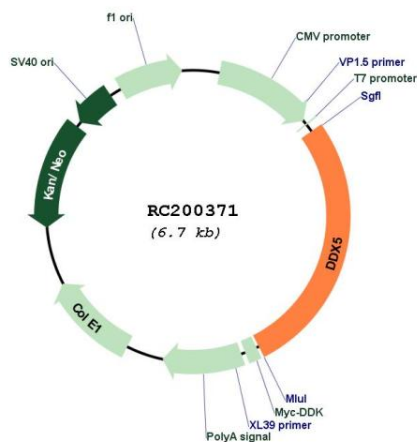
Domains: DEAD, helicase\_C

Protein Pathways: Spliceosome

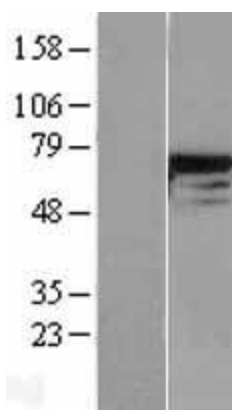
MW: 69.1 kDa

**Gene Summary:** This gene encodes a member of the DEAD box family of RNA helicases that are involved in a variety of cellular processes as a result of its role as an adaptor molecule, promoting interactions with a large number of other factors. This protein is involved in pathways that include the alteration of RNA structures, plays a role as a coregulator of transcription, a regulator of splicing, and in the processing of small noncoding RNAs. Members of this family contain nine conserved motifs, including the conserved Asp-Glu-Ala-Asp (DEAD) motif, important to ATP binding and hydrolysis as well as RNA binding and unwinding activities. Dysregulation of this gene may play a role in cancer development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2017]

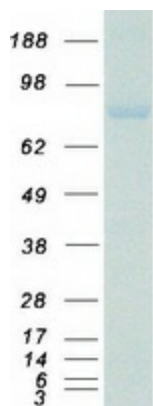
### Product images:



Circular map for RC200371



Western blot validation of overexpression lysate (Cat# [LY401398]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200371 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DDX5 protein (Cat# [TP300371]). The protein was produced from HEK293T cells transfected with DDX5 cDNA clone (Cat# RC200371) using MegaTran 2.0 (Cat# [TT210002]).