

## Product datasheet for RC226291

### DHX36 (NM\_001114397) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DHX36 (NM_001114397) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DHX36
Synonyms:	DDX36; G4R1; MLEL1; RHAU
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC226291 representing NM_001114397 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTTATGACTACCATCAGAAGCTGGGGCCGTGATGGGGTCCCCGAGCTCCGGTGGGGGCTATGGAG  
GGGGGCCAGCGGGGTCATGGAGGTAACCGAGGCTCCGGAGGAGCGCGGGCGGAGGGGTTGGTCCG  
AGGCGGCAGGGCCGGCATCCCAGGACCTGAAAGGCCGCAAAATCGGCATGTGGTACCGCAAAAAACAG  
GGGCAGAAACAAGGAAGCGGAGAGGCAAGAGAGAGCTGTAGTACACATGGATGAACGACGAGAAGAAC  
AAATTGTACAGTTACTGAATTCTGTTCAAGCGAAGAATGATAAAGAGTCAGAAGCACAGATATCCTGGTT  
TGCTCCTGAGGATCATGGATACGGTACTGAAGTTTCTACTAAGAACACACCATGCTCAGAGAACAACCT  
GACATCCAGGAAAAGAAGTTGATAAATCAAGAAAAAATGTTTGAATCAGGAACAGATCATATATTG  
ACCGAGATTCTGAGTATCTCTTGCAAGAAAATGAACAGATGAACTTTAGACAAAAATATTGGAAAGA  
TTTACAAAAGAAAAAATGACCTTCGGTATATTGAAATGCAGCATTTACAGAGAAAAGCTGCCTTCGTAT  
GGAATGCAAAAGGAATTGGTAAATTTAATTGATAACCATCAGGTAACAGTAATAAGTGGTAAACTGGTT  
GTGGCAAAACCACTCAAGTTACTCAGTTCATTTGGATAACTACATTGAAAGAGGAAAAGGATCTGCTTG  
CAGAATAGTTTGTACTCAGCCAAGAAGAATTAGTGCCATTTAGTTGCGGAAAGAGTAGCTGCAGAAAGG  
GCAGAATCTTGTGGCAGTGGAATAGTACTGGATATCAAATTCGTCTCCAGAGTCGGTTGCCAAGGAAAC  
AGGGTTCTATCTTATACTGTACAACAGGAATCATCCTTCAGTGGCTCCAGTCAGACCCGATTTTGTCCAG  
TGTTAGTCATATCGTACTTGATGAAATCCATGAAAGAAATCTGCAGTCAGATGTTTTAATGACTGTTGTT  
AAAGACCTTCTCAATTTTCGATCTGACTTGAAAGTAATATTGATGAGTGCAACATTGAATGCAGAAAAGT  
TTTCAGAATATTTTGGTAACTGTCCAATGATACATATACCTGGTTTTACCTTTCCGGTTGTGGAATATCT  
TTTGAAGATGTAATTGAAAAAATAAGGTATGTTCCAGAACAAAAAGAACAACAGATCCCAGTTTAAGAGG  
GGTTTCATGCAAGGCATGTAATAGACAAGAAAAAGAAGAAAAAGAAGCAATATATAAAGAACGTTGGC  
CAGATTATGTAAGGGAAGTGCAGAAAGGATTCTGCAAGTACTGTAGATGTTATAGAAATGATGGAGGA  
TGATAAAGTTGATCTGAATTTGATTGTTGCCCTCATCCGATACATTGTTTTGGAAGAAGAGGATGGTGCC



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ATACTGGTCTTTCTGCCAGGCTGGGACAATATCAGCACTTACATGATCTCTTGATGTCACAAGTAATGT  
 TAAATCAGTTAACCAGACACAGGTGTTAAAAGAACCCCTCTGGTGTTCGAAAAATAGTAATTGCTAC  
 CAACATTGCGGAGACTAGCATTACCATAGATGATGTCGTTATGTGATAGATGGAGGAAAAATAAAGAG  
 ACGCATTTTGATACTCAGAACAAATCAGTACAATGTCGCTGAGTGGGTTAGTAAAGCTAATGCCAAAC  
 AGAGAAAAGGTCGAGCTGGAAGAGTTCAACCTGGTCATTGCTATCATCTGTATAATGGTCTTAGAGCAAG  
 TCTTCTAGATGACTATCAACTGCCAGAAATTTGAGAACTCCTTTGGAAGAACTTTGTTTACAAATAAAG  
 ATTTTAAAGCTAGGTGGAATTGCTTATTTCTGAGTAGATTAATGGACCCACCATCAAATGAGGCAGTGT  
 TACTCTCCATAAGACACCTGATGGAGCTGAACGCTTTGGATAAAACAAGAAGAAATTGACACCTCTGGAGT  
 CCACTTGGCACGATTACCCGTTGAGCCACATATTGAAAAATGATTCTTTTTGGAGCACTGTTCTGCTGC  
 TTAGACCCAGTACTACTATTGCTGCTAGTCTCAGTTTCAAAGATCCATTTGTCATTCCACTGGGAAAAAG  
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 TCGCTTTGAGGGCTGGGAAGAGGCTAGGCGACGTGGTTTCAGATACGAAAAGGACTATTGCTGGGAATAT  
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 CTGGATTTGTAAGCAGTAGAAATCCTAAGATCCAGAATCTAATAAATTCAGATAATGAGAAGATAAT  
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 AAAATGGTAAAAGTTACACAAAACCGATGGCCTGGTTGCTGTTTCATCTAAATCTGTTAATGTGGAGC  
 AAACAGACTTTCCTACTACAACTGGCTTATCTATCACCTAAAGATGAGAACAAGCAGTATATACTTGTATGA  
 CTGCACAGAGGTTTCCCATACTGTCTCTGTTTTTGGAGGTGACATTTCCATCCAGAAGGATAACGAT  
 CAGGAACTATTGCTGTAGATGAGTGGATTGTATTTTCACTCTCCAGCAAGAATTGCCCATCTTGTAAAGG  
 AATTAAGAAAGGAAGTAGATATTCTTCTGCAAGAGAAGATTGAAAGTCTCATCTGTAGACTGGAATGA  
 CACTAAATCCAGAGACTGTGCAGTACTGCAGCTATTATAGACTTGATCAAAACACAGGAAAAGGCAACT  
 CCCAGAACTTTCCGCCACGATTCCAGGATGGATATTACAGC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC226291 representing NM\_001114397  
 Red=Cloning site Green=Tags(s)

MSYDYHQNWGRDGGPRSSGGYGGGPAGGHGNGRSGGGGGGGGRGRGRHPGHLKGREIGMWYAKKQ  
 GQKNKEAERQERAVVHMDERREEQIVQLLNSVQAKNDKESEAQISWFAPEDHGYGTEVSTKNTPCSENKL  
 DIQEKKLINQEKKMFRIRNRSYIDRDSEYLLQENEPDGLDQKLELDLQKKNDLRYIEMQHFREKLPSY  
 GMQKELVNLIDNHQVTVISGETGCGKTTQVTQFILDNYIERGKGSACRIVCTQPRRISAI SVAERVAER  
 AESCGSGNSTGYQIRLQSRPRKQGSILYCTTGIILQWLQSDPYLSSVSHIVLDEIHERNLQSDVLMTVV  
 KDLLNFRSDLKVLMSATLNAEKFSEYFGNCPMIHIPGF TFPVVEYLLEDVIEKIRYVPEQKEHRSQFKR  
 GFMQGHVNRQEKEEKEAIYKERWPDYVRELRRRYSASTVDVIEEMEDDKVDLNLIVALIRYIVLEEDGA  
 ILVFLPGWDNISTLHDLMSQVMFKSVNQTVFKRTPPGVRKIVIATNIAETSITIDDVVYVIDGGKIKE  
 THFDTQNNISTMSAEWVSKANAKQRKGRAGRVQPGHCYHLYNGLRASLLDDYQLPEILRTPLEELCLQIK  
 ILRLGGIAYFLSRMLDPPSNEAVLLSIRHLMELNALDKQEEL TPLGVHLARLPVEPHIGKMILFGALFCC  
 LDPVLTIAASLSFKDPFVIPLGKEKIADARRKELAKDTRSDHLTVVNAFEGWEEARRRGRFRIEKDYCWEY  
 FLSSNTLQMLHNMKGQFAEHLGAGFVSSRNPKDPESNINSNEKIIKAVICAGLYPKVAKIRLNLGKKR  
 KMKVYTKTDGLVAVHPKSVNVEQTDHFYHNL IYHLKMR TSSIYLYDCTEVSPYCLLFFGGDISIQKND  
 QETIAVDEWIVFQSPARIAHLVKELRKELDILLQEIESPHVVDWNTKSRDCAVLSAIIIDLIKTQEKAT  
 PRNFPPRFQDGYYS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001114397

**ORF Size:** 2982 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.

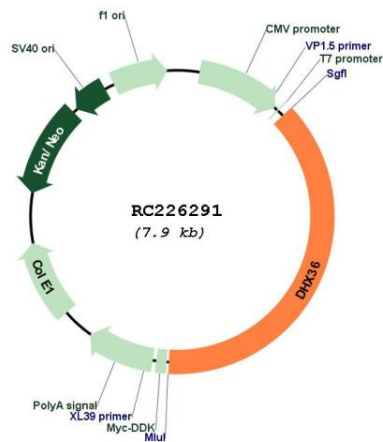
**RefSeq:** [NM\\_001114397.1](#), [NP\\_001107869.1](#)

**RefSeq ORF:** 2985 bp

**Locus ID:** 170506  
**UniProt ID:** [Q9H2U1](#)  
**Cytogenetics:** 3q25.2  
**MW:** 113 kDa

**Gene Summary:** This gene is a member of the DEAH-box family of RNA-dependent NTPases which are named after the conserved amino acid sequence Asp-Glu-Ala-His in motif II. The protein encoded by this gene has been shown to enhance the deadenylation and decay of mRNAs with 3'-UTR AU-rich elements (ARE-mRNA). The protein has also been shown to resolve into single strands the highly stable tetramolecular DNA configuration (G4) that can form spontaneously in guanine-rich regions of DNA. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC226291