

Product datasheet for RC223929

DHX36 (NM_020865) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHX36 (NM_020865) 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:	>RC223929 representing NM_020865 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGAGTTATGACTACCATCAGAAGTGGGGCCGTGATGGGGTCCCCGAGCTCCGGTGGGGGCTATGGAG
GGGGGCCAGCGGGGTCATGGAGGTAACCGAGGCTCCGGAGGAGCGCGGGCGGAGGGGTTGGTCCG
AGGCGGCAGGGCCGGCATCCCGGCACCTGAAAGGCCGCGAAATCGGCATGTGGTACCGCAAAAAACAG
GGGCAGAAACAAGGAAGCGGAGAGGCAAGAGAGAGCTGTAGTACACATGGATGAACGACGAGAAGAAC
AAATTGTACAGTTACTGAATTCTGTTCAAGCGAAGAATGATAAAGAGTCAGAAGCACAGATATCCTGGTT
TGCTCCTGAGGATCATGGATACGGTACTGAAGTTTCTACTAAGAACACACCATGCTCAGAGAACAACCT
GACATCCAGGAAAAGAAGTTGATAAATCAAGAAAAAAAATGTTTAGAATCAGGAACAGATCATATATTG
ACCGAGATTCTGAGTATCTCTTGCAAGAAAATGAACCAGATGAACTTTAGACAAAAATATTGGAAAGA
TTTACAAAAGAAAAAATGACCTTCGGTATATTGAAATGCAGCATTTACAGAGAAAAGCTGCCTTCGTAT
GGAATGCAAAAGGAATTGGTAAATTTAATTGATAACCATCAGGTAACAGTAATAAGTGGTAAACTGGTT
GTGGCAAAACCACTCAAGTTACTCAGTTCATTTGGATAACTACATTGAAAGAGGAAAAGGATCTGCTTG
CAGAATAGTTTGTACTCAGCCAAGAAGAATTAGTGCCATTTAGTTGCGGAAAGAGTAGCTGCAGAAAGG
GCAGAATCTTGTGGCAGTGGAATAGTACTGGATATCAAATTCGTCTCCAGAGTCGGTTGCCAAGGAAAC
AGGGTTCTATCTTATACTGTACAACAGGAATCATCCTTCAGTGGCTCCAGTCAGACCCGATTTTGTCCAG
TGTTAGTCATATCGTACTTGTGAAATCCATGAAAGAAATCTGCAGTCAGATGTTTTAATGACTGTTGTT
AAAGACCTTCTCAATTTTCGATCTGACTTGAAAGTAATATTGATGAGTGCAACATTGAATGCAGAAAAGT
TTTCAGAAATTTTGGTAACTGTCCAATGATACATATACCTGGTTTTACCTTTCCGGTTGTGGAATATCT
TTTGAAGATGTAATTGAAAAAATAAGGTATGTTCCAGAACAAAAAGAACAACAGATGCCAGTTTAAGAGG
GGTTTCATGCAAGGCATGTAATAGACAAGAAAAAGAAGAAAAAGAAGCAATATATAAAGAACGTTGGC
CAGATTATGTAAGGGAAGTGCAGAAAGGATTTCTGCAAGTACTGTAGATGTTATAGAAATGATGGAGGA
TGATAAAGTTGATCTGAATTTGATTGTTGCCCTCATCCGATACATTGTTTTGGAAGAAGAGGATGGTGCC



[View online >](#)

ATACTGGTCTTTCTGCCAGGCTGGGACAATATCAGCACTTACATGATCTCTTGATGTCACAAGTAATGT
 TAAATCAGATAAATTTTAAATTACCTTTACATTCAGTGCCTACAGTTAACCCAGACACAGGTGTT
 TAAAAGAACCCTCCTGGTGTTCGGAAAAATAGTAATTGCTACCAACATTGCGGAGACTAGCATTACCATA
 GATGATGTCGTTTATGTGATAGATGGAGGAAAAATAAAGAGACGCATTTTGATACTCAGAAACAATCA
 GTACAATGTCGCTGAGTGGGTTAGTAAAGCTAATGCCAACAGAGAAAAGGTCGAGCTGGAAGAGTTCA
 ACCTGGTCATTGCTATCATCTGTATAATGGTCTTAGAGCAAGTCTCTAGATGACTATCAACTGCCAGAA
 ATTTTGAAGAACTCTTTGGAAGAACTTTGTTTACAAATAAAGATTTTAAGGCTAGGTGGAATTGCTTATT
 TTCTGAGTAGATTAATGGACCCACCATCAATGAGGCAGTGTACTCTCCATAAGACACCTGATGGAGCT
 GAACGCTTTGGATAAACAAGAAGAAATTGACACCTCTTGGAGTCCACTTGGCACGATTACCCGTTGAGCCA
 CATATTGGAAAAATGATTCTTTTTGGAGCACTGTTCTGCTGCTTAGACCCAGTACTCACTATTGCTGCTA
 GTCTCAGTTTCAAAGATCCATTTGTCTTCCACTGGGAAAAGAAAAGATTGCAGATGCAAGAAGAAAGGA
 ATTGGCAAAGGATACTAGAAGTGATCACTTAACAGTTGTGAATGCGTTTGGAGGCTGGGAAGAGGCTAGG
 CGACGTGGTTTCAGATACGAAAAGGACTATTGCTGGGAATATTTCTGTCTTCAAACACACTGCAGATGC
 TGCATAACATGAAAGGACAGTTTGTGAGCATCTTCTTGGAGCTGGATTGTAAGCAGTAGAAATCTAA
 AGATCCAGAATCTAATATAAATTCAGATAATGAGAAGATAATTAAGCTGTCATCTGTGCTGGTTTATAT
 CCCAAAGTTGCTAAAATTCGACTAAATTTGGGTAAAAAAGAAAATGGTAAAAGTTTACACAAAACCCG
 ATGGCCTGGTTGCTGTTTCATCTAAATCTGTTAATGTGGAGCAAACAGACTTTCCTACAACCTGGCTTAT
 CTATCACCTAAAGATGAGAAACAAGCAGTATATACTTGTATGACTGCACAGAGTTTCCCCATACTGTCTC
 TTGTTTTTGGAGGTGACATTTCCATCCAGAAGGATAACGATCAGGAACTATTGCTGTAGATGAGTGGG
 TTGATTTTCAGTCTCCAGCAAGAATTGCCATCTTGTAAAGGAATTAAGAAAAGGAACTAGATATTCTTCT
 GCAAGAGAAGATTGAAAGTCTCATCTGTAGACTGGAATGACTACTAAATCCAGAGACTGTGCAGTACTG
 TCAGCTATTATAGACTTGATCAAAACACAGGAAAAGGCAACTCCAGGAACCTTCCGCCACGATTCCAGG
 ATGGATATTACAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223929 representing NM_020865
 Red=Cloning site Green=Tags(s)

MSYDYHQNWGRDGGPRSSGGYGGPAGGHGNGRSGGGGGGGGRRGRHRPHGLKGREIGMWYAKKQ
 GQKNKEAERQERAVVHMDERREEQIVQLLNSVQAKNDKESAEQISWFAPEDHGYGTEVSTKNTPCSENKL
 DIQEKKLINQEKKMFRIRNRSYIDRDSEYLLQENEPDGLDQKLELDLQKKKNDLRYIEMQHFREKLP
 SYGMQKELVNLIDNHQVTVISGETGCGKTTQVTQFILDNYIERGKGSACRIVCTQPRRISAISSAERVA
 AERAESCGSGNSTGYQIRLQSRPRKQGSILYCTTGIIQWLQSDPYLSSVSHIVLDEIHERNLQSDV
 LMTVVKDLLNFRSDLKVLMSATLNAEKSEYFGNCPMIHIPGFTFPVVEYLLEDVIEKIRYVPEQ
 KEHRCQFKRFGMQGHVNRQEKEEKEAIYKERWPDYVRELRRRYSASTVDVIEEMEDDKVDLNL
 IVALIRYIVLEEDGAILVFLPGWDNISTLHDLMSQVMFKSDKFLIIPHLMLPTVNQTQVFKRTP
 PPGVRKIVIAATNIAETSITIDVVYVIDGGKIKETHFDQNNISTMSAEWVSKANAKQRKGRAGR
 VQPGHCYHLNGLRASLLDDYQLPEILRTPLEELCLQIKILRLGGIAYFLSRLMDPPSNEAVLL
 SIRHLMELNALDKQEELTPLGVHLARLPVEPHIGKMLFGALFCCLDPVLIAASLSFKDPFV
 IPLGKEKIADARRKELAKDTRSDHLTVVNAFEGWEEARRRFRYKDYCWEYFLSSNTLQMLH
 NMKGQFAEHLGAGFVSSRNPKDPESNINSNEKIKAIVICAGLYPKVAKIRLNLGKKRKMV
 VYTKTDGLVAVHPKSVNVEQTDHFYHNWLIYHLKMRTSSIYLYDCTEVSPYCLLFFGGD
 ISIQKDNQETIAVDEWIVFQSPARIAHLVKELRKELDILLQEKIESPHRPVDWNTKSRDCAV
 LSAIIDLIKTEKATPRNFPPRFQDGYYS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg4834_e09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_020865

ORF Size: 3024 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_020865.1](#), [NP_065916.1](#)

RefSeq Size: 3600 bp

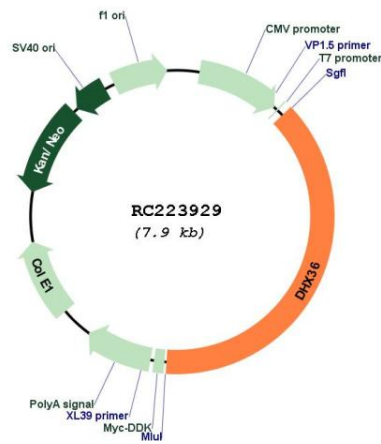
RefSeq ORF: 3027 bp

Locus ID: 170506

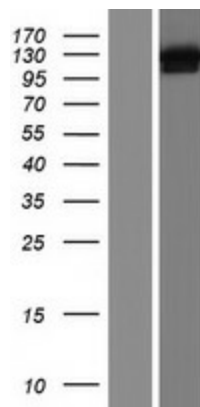
UniProt ID: [Q9H2U1](#)
Cytogenetics: 3q25.2
Domains: DEAD, helicase_C, HA2
MW: 114.6 kDa

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]

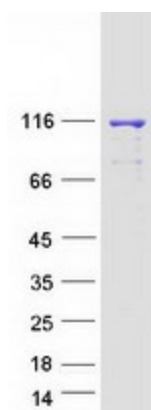
Product images:



Circular map for RC223929



Western blot validation of overexpression lysate (Cat# [LY412234]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223929 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DHX36 protein (Cat# [TP323929]). The protein was produced from HEK293T cells transfected with DHX36 cDNA clone (Cat# RC223929) using MegaTran 2.0 (Cat# [TT210002]).