

## Product datasheet for **RG223929**

### **DHX36 (NM\_020865) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DHX36 (NM_020865) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DHX36
Synonyms:	DDX36; G4R1; MLEL1; RHAU
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223929 representing NM_020865 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTTATGACTACCATCAGAAGCTGGGGCCGTGATGGGGTCCCCGCAGCTCCGGTGGGGGCTATGGAG  
GGGGGCCAGCGGGGTCATGGAGGTAACCGAGGCTCCGGAGGAGCGCGGGCGGAGGGGTTGGTCCG  
AGGCGGCAGGGCCGGCATCCCGGCACCTGAAAGGCCGCGAAATCGGCATGTGGTACCGCAAAAAACAG  
GGGCAGAAACAAGGAAGCGGAGAGGCAAGAGAGAGCTGTAGTACACATGGATGAACGACGAGAAGAAC  
AAATTGTACAGTTACTGAATTCTGTTCAAGCGAAGAATGATAAAGAGTCAGAAGCACAGATATCCTGGTT  
TGCTCCTGAGGATCATGGATACGGTACTGAAGTTTCTACTAAGAACACACCATGCTCAGAGAACAACCT  
GACATCCAGGAAAAGAAGTTGATAAATCAAGAAAAAATGTTTAGAATCAGGAACAGATCATATATTG  
ACCGAGATTCTGAGTATCTCTTGCAAGAAAATGAACCAGATGAACTTTAGACAAAAATATTGGAAAGA  
TTTACAAAAGAAAAAATGACCTTCGGTATATTGAAATGCAGCATTTACAGAAAAAGCTGCCTTCGTAT  
GGAATGCAAAAGGAATTGGTAAATTTAATTGATAACCATCAGGTAACAGTAATAAGTGGTAAACTGGTT  
GTGGCAAACCACTCAAGTTACTCAGTTCATTTGGATAACTACATTGAAAGAGGAAAAGGATCTGCTTG  
CAGAATAGTTTGTACTCAGCCAAGAAGAATTAGTGCCATTTAGTTGCGGAAAGAGTAGCTGCAGAAAG  
GCAGAATCTTGTGGCAGTGGAATAGTACTGGATATCAAATTCGTCTCCAGAGTCGGTTGCCAAGGAAAC  
AGGGTTCTATCTTATACTGTACAACAGGAATCATCCTTCAGTGGCTCCAGTCAGACCCGATTTGTCCAG  
TGTTAGTCATATCGTACTTGATGAAATCCATGAAAGAAATCTGCAGTCAGATGTTTTAATGACTGTGTT  
AAAGACCTTCTCAATTTTCGATCTGACTTGAAAGTAATATTGATGAGTGCAACATTGAATGCAGAAAAGT  
TTTCAGAAATTTTGGTAACTGTCCAATGATACATATACCTGGTTTTACCTTTCCGGTTGTGGAATATCT  
TTTGAAGATGTAATTGAAAAAATAAGGTATGTTCCAGAACAAAAAGAACAACAGATGCCAGTTTAAGAGG  
GGTTTCATGCAAGGCATGTAATAGACAAGAAAAAGAAGAAAAAGAAGCAATATATAAAGAACGTTGGC  
CAGATTATGTAAGGGAAGTGCAGAAAGGTATTCTGCAAGTACTGTAGATGTTATAGAAATGATGGAGGA  
TGATAAAGTTGATCTGAATTTGATTGTTGCCCTCATCCGATACATTGTTTTGGAAGAAGAGGATGGTGCC



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ATACTGGTCTTTCTGCCAGGCTGGGACAATATCAGCACTTACATGATCTCTTGATGTCACAAGTAATGT  
TAAATCAGATAAATTTTAAATTACCTTTACATTCAGTGCCTACAGTTAACCCAGACACAGGTGTT  
TAAAAGAACCCCTCCTGGTGTTCGGAAAAATAGTAATTGCTACCAACATTGCGGAGACTAGCATTACCATA  
GATGATGTCGTTTATGTGATAGATGGAGGAAAAATAAAGAGACGCATTTTGATACTCAGAAACAATCA  
GTACAATGTCGCTGAGTGGGTTAGTAAAGCTAATGCCAACAGAGAAAAGGTCGAGCTGGAAGAGTTCA  
ACCTGGTCATTGCTATCATCTGTATAATGGTCTTAGAGCAAGTCTTAGATGACTATCAACTGCCAGAA  
ATTTTGAAGACTCCTTTGGAAGAACTTTGTTTACAAATAAAGATTTTAAAGCTAGGTGGAATTGCTTATT  
TTCTGAGTAGATTAATGGACCCACCATCAATGAGGCAGTGTACTCTCCATAAGACACCTGATGGAGCT  
GAACGCTTTGGATAAACAAAGAAGAAATTGACACCTCTTGGAGTCCACTTGGCACGATTACCCGTTGAGCCA  
CATATTGGAAAAATGATTCTTTTTGGAGCACTGTTCTGCTGCTTAGACCCAGTACTCACTATTGCTGCTA  
GTCTCAGTTTCAAAGATCCATTTGTCTTCCACTGGGAAAAGAAAAGATTGCAGATGCAAGAAGAAAGGA  
ATTGGCAAAGGATACTAGAAGTGATCACTTAACAGTTGTGAATGCGTTTGGAGGCTGGGAAGAGGCTAGG  
CGACGTGGTTTCAGATACGAAAAGGACTATTGCTGGGAATATTTCTGTCTTCAAACACACTGCAGATGC  
TGCATAACATGAAAGGACAGTTTGTGAGCATCTTCTTGGAGCTGGATTGTAAGCAGTAGAAATCTAA  
AGATCCAGAATCTAATATAAATTCAGATAATGAGAAGATAATTAAGCTGTCATCTGTGCTGGTTTATAT  
CCCAAAGTTGCTAAAATTCGACTAAATTTGGGTAAAAAAGAAAATGGTAAAAGTTTACACAAAACCCG  
ATGGCCTGGTTGCTGTTTCATCTAAATCTGTTAATGTGGAGCAAAACAGACTTTCCTACAACCTGGCTTAT  
CTATCACCTAAAGATGAGAAACAAGCAGTATATACTTGTATGACTGCACAGAGTTTCCCCATACTGTCTC  
TTGTTTTTGGAGGTGACATTTCCATCCAGAAGGATAACGATCAGGAAACTATTGCTGTAGATGAGTGG  
TTGATTTTCAGTCTCCAGCAAGAATTGCCATCTTGTAAAGGAATTAAGAAAAGGAACTAGATATTCTTCT  
GCAAGAGAAGATTGAAAGTCTCATCTGTAGACTGGAATGACACTAAATCCAGAGACTGTGCAGTACTG  
TCAGCTATTATAGACTTGATCAAAACACAGGAAAAGGCAACTCCAGGAACTTTCCGCCACGATTCCAGG  
ATGGATATTACAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG223929 representing NM\_020865  
Red=Cloning site Green=Tags(s)

MSYDYHQNWGRDGGPRSSGGYGGPAGGHGNGRSGGGGGGGGGRRGRHPGHLKGREIGMWAYKKQ  
GQKNKEAERQERAVVHMDERREEQIVQLLNSVQAKNDKESEAQISWFAPEDHGYGTEVSTKNTPCSENKL  
DIQEKKLINQEKKMFRIRNRSYIDRDSEYLLQENEPDGLDQKLELDLQKKNDLRYIEMQHFREKLPSY  
GMQKELVNLIDNHQVTVISGETGCGKTTQVTQFILDNYIERGKGSACRIVCTQPRRISAI SVAERVAER  
AESCGSGNSTGYQIRLQSRLPRKQGSILYCTTGIILQWLQSDPYLSSVSHIVLDEIHERNLQSDVLMTVV  
KDLLNFRSDLKVLMSATLNAEKFSEYFGNCPMIHIPGF TFPVVEYLLEDVIEKIRYVPEQKEHRCQFKR  
GFMQGHVNRQEKEEKEAIYKERWPDYVRELRRRYSASTVDVIEMMEDDKVDLNLIVALIRYIVLEEDGA  
ILVFLPGWDNISTLHDLMSQVMFKSDKFLIIPHLMLPTVNQTQVFKRTPPGVRKIVIAATNIAETSITI  
DDVVYVIDGGKIKETHFDTQNNISTMSAEWVSKANAKQRKGRAGRVPQGHYHL YNGLRASLLDDYQLPE  
ILRTPLEELCLQIKILRLGGIAYFLSRLMDPPSNEAVLLSIRHLMELNALDKQEELTPLGVHLARLPVEP  
HIGKMILFGALFCLDPVLTIAASLSFKDPFVIPLGKEKIADARRKELAKDTRSDHLTVVNAFEGWEEAR  
RRGFRYEKDYCWEYFLSSNTLQMLHNMKGQFAEHLGAGFVSSRNPKDPESNINSNEKIIKAVICAGLY  
PKVAKIRLNLGKKRKMVYTKTDGLVAVHPKSVNVEQTDHFYHNL IYHLKMRSSSIYLYDCTEVSPYCL  
LFFGGDISIQKDNQETIAVDEWIVFQSPARIAHLVKELRKELDILLQEKIESPHVPDWNDTKSRDCAVL  
SAIIDLIKTEKATPRNFPPRFQDGYYS

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul



<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_020865.1</a></u> , <u><a href="#">NP_065916.1</a></u>
<b>RefSeq Size:</b>	3600 bp
<b>RefSeq ORF:</b>	3027 bp
<b>Locus ID:</b>	170506
<b>UniProt ID:</b>	<u><a href="#">Q9H2U1</a></u>
<b>Cytogenetics:</b>	3q25.2
<b>Domains:</b>	DEAD, helicase_C, HA2
<b>Gene Summary:</b>	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]