

## Product datasheet for **RG226291**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DHX36 (NM_001114397) 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)



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**ORF Nucleotide Sequence:**

>RG226291 representing NM\_001114397  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGTTATGACTACCATCAGAAGTGGGGCCGTGATGGGGTCCCGCAGCTCCGGTGGGGCTATGGAG  
 GGGGCCAGCAGGGGTCATGGAGTAACCGAGGCTCCGAGGAGCGCGCGCGGAGGGGGTGGTCCG  
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 GGGCAGAAGAACAAGGAAGCGGAGAGGCAAGAGAGAGCTGTAGTACACATGGATGAACGACGAGAAGAAC  
 AAATTGTACAGTTACTGAATCTGTTCAAGCGAAGAATGATAAAGAGTCAGAAGCACAGATATCCTGGTT  
 TGCTCCTGAGGATCATGGATACGGTACTGAAGTTCTACTAAGAACACACCATGCTCAGAGAACAACTT  
 GACATCCAGGAAAAGAAGTTGATAAATCAAGAAAAAATGTTTAGAATCAGGAACAGATCATATATTG  
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 ATTTAAAGGCTAGGTGGAATTGCTTATTTTCTGAGTAGATTAATGGACCCACCATCAAATGAGGCAGTGT  
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 TTTCTGTCTTCAAACACACTGCAGATGCTGCATAACATGAAAGGACAGTTTGTGAGCATCTTCTGGAG  
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 CTGCACAGAGGTTTCCCATACTGTCTCTGTTTTTGGAGGTGACATTTCCATCCAGAAGGATAACGAT  
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 CACTAAATCCAGAGACTGTGCACTACTGTGAGCTATTATAGACTTGATCAAAACACAGGAAAAGGCAACT  
 CCCAGGAACTTTCCGCCAGGATCCAGGATGGATATTACAGC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG226291 representing NM\_001114397  
 Red=Cloning site Green=Tags(s)

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MSYDYHQNWGRDGGPRSSGGGYGGGPAGGHGNGRSGGGGGGGGGRRGRGRHPGHLKGREIGMWAYAKQ
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DIQEKKLINQEKKMFRI RNRSYIDRDSEYLLQENEPDGLDQKLEDLQKKKNDLRYIEMQHFREKLP SY
GMQKELVNLIDNHQVTVISGETGCGKTTQVTQFILDNYIERGKGSACRIVCTQPRRISAI SVAERVAER
AESCGSGNSTGYQIRLQSR LPRKQGSILYCTTGIILQWLQSDPYLSSVSHIVLDEIHERNLQSDVLMTVV
KDLLNFRSDLKVILMSATLNAEK FSEYFGNCPMIHIPGFTFPVVEYLLEDVIEKIRYVPEQKEHRSQFKR
GFMQGHVNRQEKEEKEAIYKERWPDYVRELRRYSASTVDVIEMEDDKVDLNLIVALIRYIVLEEEEDGA
ILVFLPGWDNISTLHDL LMSQVMFKSVNQTVFKRTPPGVRKIV IATNIAETSITIDDVVYVIDGGKIKE
THFDTQNNISTMSAEWVSKANAKQRKGRAGRVQPGHCYHLYNGLRASLLDDYQLPEILRTPLEELCLQIK
ILRLGGIAYFLSRLMDPPSNEAVLLSIRHLMELNALDKQEEL TPLGVHLARLPVEPHIGKMILFGALFCC
LDPVL TIAASL SFKDPFVIPLGKEKIADARRKELAKDTRSDHL TVVNAFEGWEEARRRGFRYEKDYCWEY
FLSSNTLQMLHNMKGQFAEHL LAGFVSSRNPKDPE SNINSDNEKI IKAVICAGLYPKVAKIRLNLGKKR
KMVKVYTKTDGLVAVHPKSVNVEQTD FHYNWL IYHLKMR TSSIYLYDCTEVSPYCLLFFGGDISIQKND
QETIAVDEWIVFQSPARIAHLVKELRKELDILLQEKIESPHPV DNDTKSRDCAVLSAII DLIKTQEKAT
PRNFPPRFQDGYYS
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

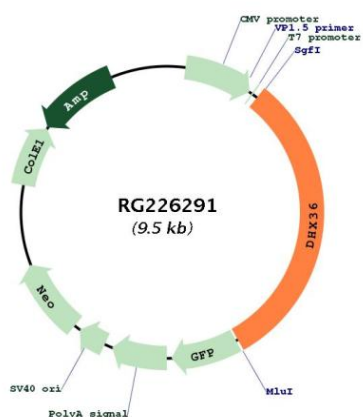


**ACCN:** NM\_001114397

**ORF Size:** 2982 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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>	<a href="#">NM_001114397.1</a> , <a href="#">NP_001107869.1</a>
<b>RefSeq Size:</b>	3583 bp
<b>RefSeq ORF:</b>	2985 bp
<b>Locus ID:</b>	170506
<b>UniProt ID:</b>	<a href="#">Q9H2U1</a>
<b>Cytogenetics:</b>	3q25.2
<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]

Product images:



Circular map for RG226291