

## Product datasheet for **RG216268**

### **DDX42 (NM\_007372) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DDX42 (NM_007372) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DDX42
Synonyms:	DDX42P; RHELP; RNAHP; SF3B8; SF3b125
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG216268 representing NM\_007372  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAACTGGAATAAAGGTGGTCCTGGCACTAAGCGAGGATTTGGCTTTGGAGTTTTGCCATCAGTGCTG  
 GGAAAAAGGAGGAACCCAACTCCACAGCAGTCCACAGTGCCTTTGGGCAACCAGCTCTTCTCTGG  
 ATTTGGAAAGTCAGCTCCACCACAGCTTCTTCTTCTACAAAATTGGATCTAAGCGGGCAACTTTGAT  
 GAAGAAAAATGCCTATTTTGAAGATGAGGAAGAAGATTCTAGCAACGTTGATTTACCTTACATTCCTGCTG  
 AAAACTCACCAACTCGCCAGCAATTCATTCCAAGCCAGTAGATTCTGACAGCGATGATGATCCCTTGGG  
 GGCATTTCATGGCTGAAGTGGAGGATCAGGCAGCTAGAGACATGAAGAGGCTTGAAGAAAAGGACAAGGAA  
 AGAAAAACGTAAGGGTATTTCGAGATGACATTGAAGAGGAAGATGACCAAGAAGCTTATTTTCGATACA  
 TGGCAGAAAACCAACTGCTGGTGTGGTTCAGGAGGAAGGAAGACAATCTAGAATATGATAGTGACGG  
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 CCACCATTGAAAAAACTTTTACAATGAGCATGAAGAGATAACCAACCTCACTCCACAGCAGTTAATAG  
 ATCTCCGGCATAAGCTCAATCTTCGGGTCTCTGGTGTGCACCTCTAGACCAGGAAGTAGCTTTGCTCA  
 TTTTGGGTTTGACGAACAACTTATGCACCAGATTTCGAAATCTGAATACACACAGCCCACTCCAATACAG  
 TGCCAGGGTGTGCTGTGGCATTAAAGTGGTAGAGACATGATTGGTATTGCCAAAACAGGTAGTGGGAAAA  
 CTGCAGCCTTCATTTGGCCCATGTTGATTCATATAATGGACCAGAAGGAGTTGGAACCAGGTGATGGACC  
 AATTGCAGTGATTGTGTGCTCCTACCAGGGAGCTTTGCCAGCAGATCCATGCAGAATGTAAGCGGTTTGA  
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 TCTTCAAAGAGTCTTTACCTTGTGTTTGAATGAAGCAGATCGAATGTTTGACATGGGATTTGAGTACCAA  
 GTTCGATCCATAGCAAGTCATGTTCTGCTGACAGGCAGACTCTTTATTTAGTGAACCTTTTCGGAAGA  
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 CGTCTGGTAGAATTTACCTCTTCAGGGAGTGTCTCTCTTTGTTACTAAAAAGCCAATGCTGAAGAGC  
 TAGCGAATAACCTTAAACAGGAGGGTCATAATCTTGGGCTGCTCCATGGGGATATGGATCAGAGTGAGAG  
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 ATAGGATTGGCCGCACAGGAAGAGCGGGTGAGAAAGGTGTGGCCTATACCCTACTCACTCCAAGGACAG  
 CAATTTTGTGGTGCCTGGTCCGGAATTTGGAAGGAGCCAATCAACACGTTTCTAAGGAACTCCTAGAT  
 CTGGCAATGCAGAATGCCTGGTTTCGAAATCTCGATTCAAAGGAGGGAAAGGAAAAAGCTGAACATTG  
 GTGGAGGAGGCCTAGGCTACAGGGAGCGCCCTGGCCTGGGCTCTGAGAACATGGATCGAGGAAATAACAA  
 TGTAATGAGCAATTATGAGGCCTACAAGCCTCCACAGGAGCTATGGGAGATCGACTAACGGCAATGAAA  
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 GGGCCATAACAGTCTGACAGCCCGTCAACAGTGCAGGCAAGGGCATCCAGGCTTTGGCAATACTGGC  
 AACATCAGTGGTCCCTGTGACCTACCCGTCTGCCGGAGCCCAAGGAGTCAACAACACAGCTTCAGGGGA  
 ATAAACAGCCGAGAAGGGACTGGGGCAGCAACGGGAAAAGAGAGAGATATACTGAGAACCAGGGGACAGC  
 CCGTCACAGTCACGGAGAGACTGGCAATCGGCATAGCGATAGTCCACGTACGGAGATGGTGGTCCGCTAT  
 GGAGATGGATACCGCCATCCAGAAAGCAGCAGCCGTCATACTGATGGCCATCGGCACGGGAGAACAGAC  
 ATGGAGGAAGCGCAGGCCGGCATGGGGAGAACCAGGGTGCATGATGGTGGAAATGGGGAAAGCAGGAA  
 AGAAGCTTTTAACTCGTGAAGCAAGATGGAGCCCAAGTGAACCCAAAGTGGACAGCAGCAAGATGGAC  
 AAGGTGGACAGCAAGACAGATAAGACAGCTGACGGCTTTGCTGTCCAGAGCCGCTAAACGCAAGAAAA  
 GTCGATGGGACAGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216268 representing NM\_007372  
 Red=Cloning site Green=Tags(s)

MNWNKGGPGTKRFGFGGFAISAGKKEEPKLPQQSHSAFGATSSSSGFGKSAPPQLPSFYKIGSKRANFD  
 EENAYFEDEEEDSSNDLPYIPAENSPTRQFHSKPVSDSDDDPLEAFMAEVEDQAARDMKRLEEKDKE  
 RKNVKGIRDDIEEEDDQEAYFRYMAENPTAGVVQEEEEEDNLEYDSGDNPIAPTKKIIDPLPIDHSEIDY  
 PPFKFNFYNEHEEITNLTPQQLIDLRHKLNLRVSGAAPPRPGSSFAHFGFDEQLMHQIRKSEYTQPTPIQ  
 CQGVVVALSGRDMIGIAKTGSGKTAAFIWPLIHMIDQKELEPGDGPIAVIVCPRELCQQIHAECKRFG  
 KAYNLRVAVYGGGSMWEQAKALQEGAEIVVCTPGRLIDHVKKKATNLQRVSYLVFDEADRMFDMGFEYQ  
 VRSIASHVRPDRQTLLFSATFRKKIEKLARDILIDPIRVVQGDIGEANEDVTQIVEILHSGPSKWNWLTR  
 RLVEFTSSGSVLLFVTKKANAEEANLNKQEGHNLGLLHGMDQSERNKVISDFKKKDIPVLVATDVAAR  
 GLDIPSIKTVINYDVARIDIDTHTRIGRTGRAGEKGVAYTLLTPKDSNFAAGDLVRNLEGANQHVSKELLD  
 LAMQNAWFRKSRFKGGKGLNIGGGGLGYRERPGLGSENMDRGNMVMNSNYEAYKPSTGAMGDRLTAMK  
 AAFQSQYKSHFVAASLSNQKAGSSAAGASGWTAGSLNSVPTNSAQGHNSPDSVPTSAAKGIPFGNTG  
 NISGAPVTYPSAGAQQVNNASGNNSREGTGGSNKRERYTENRGSRRHSHGETGNRHSDSPRHGDGGRH  
 GDGYRHPESRRHTDGHHRHGENRHGGSAGRHHENRGANDGRNGESRKEAFNRESKMEPKMEPKVDSKMD  
 KVDSKTDKTADGFVPEPPKRRKSRWDS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM\_007372

ORF Size: 2814 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_007372.3](#), [NP\\_031398.2](#)

**RefSeq Size:** 4014 bp

**RefSeq ORF:** 2817 bp

**Locus ID:** 11325

**UniProt ID:** [Q86XP3](#)

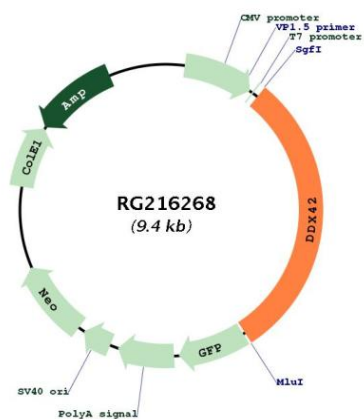
**Cytogenetics:** 17q23.3

**Domains:** DEAD, helicase\_C

**Protein Pathways:** Spliceosome

**Gene Summary:** This gene encodes a member of the Asp-Glu-Ala-Asp (DEAD) box protein family. Members of this protein family are putative RNA helicases, and are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. Two transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG216268