

Product datasheet for **RG201898**

DDX41 (NM_016222) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX41 (NM_016222) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DDX41
Synonyms:	ABS; MPLPF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201898 representing NM_016222
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGGAGTCGGAACCCGAACGGAAGCGGGCTCGCACCGACGAGGTGCCTGCCGGAGGAAGCCGCTCCG
 AGGCGGAAGATGAGGACGACGAGGACTACGTGCCCTATGTGCCGTTACGGCAGCGCCGGCAGCTACTGCT
 CCAGAAGCTGCTGCAGCGAAGACGCAAGGGAGCTGCGGAGGAAGAGCAGCAGGACAGCGGTAGTGAACCC
 CGGGGAGATGAGGACGACATCCCCTAGGCCCTCAGTCCAACGTCAGCCTCCTGGATCAGCACCGACACC
 TTAAGAGAAGGCTGAAGCGCGAAAGAGTCTGCCAAGGAGAAGCAGCTGAAGGAAGAAGAGAAGATCCT
 GGAGAGTGTGCCGAGGGCCGAGCATTGATGTCAGTGAAGGAGATGGCTAAGGGCATTACGTATGATGAC
 CCCATCAAACCAGCTGGACTCCACCCCGTTATGTTCTGAGCATGCTGAAGAGCGCATGAGCGCGTGC
 GGAAGAAATACCACATCCTGGTGGAGGGAGACGGTATCCCACCACCCATCAAGAGCTTCAAGGAAATGAA
 GTTTCCTGCAGCCATCCTGAGAGGCCTGAAGAAGAAAGGCATTACCACCCAACCCATTACAGATCCAG
 GGATCCCCACCATTTCTATCTGGCCGTGACATGATAGGCATCGCTTTCACGGGTTACGGCAAGACTGG
 TGTTACGTTGCCCGTCATCATGTTCTGCCTGGAACAAGAGAAGAGGTTACCCCTTCTCAAAGCGCGAGGG
 GCCATATGGACTCATCTGCCCTCGCGGGAGCTGGCCGGCAGACCCATGGCATCCTGGAGTACTAC
 TGCCGCTGTGCAGGAGGACAGCTCACCCTCCTGCGTGCGCCCTCTGCATTGGGGCATGTCCTGTA
 AAGAGCAGATGGAGACATCCGACACGGTGTACACATGATGGTGGCCACCCCGGGGCGCCTCATGGATTT
 GCTGCAGAAGAAGATGGTCAAGCTAGACATCTGTCGCTACCTGGCCCTGGACGAGGCTGACCGCATGATC
 GACATGGGCTTCGAGGGTGACATCCGTACCATTCTCCTACTTCAAGGGCCAGCGACAGACCCTGCTCT
 TCAGTGGCACCATGCCGAAGAAGATTAGAATTTGCTAAGAGTGCCTTGTAAAGCCTGTGACCATCAA
 TGTGGGCGCGCTGGGGCTGCCAGCCTGGATGTATCCAGGAGGTAGAATATGTGAAGGAGGAGGCCAAG
 ATGGTGTACCTGCTCGAGTGCCTGCAGAAGACACCCCGCCTGTACTCATCTTTCAGAGAGAAGGCGAG
 ACGTGGACGCCATCCACGAGTACCTGCTGCTCAAGGGGTTGAGGCCGTAGCCATCCATGGGGGCAAAGA
 CCAGGAGGAACGGACTAAGGCCATCGAGGCATTCCGGGAGGGCAAGAAGGATGTCCTAGTAGCCACAGAC
 GTTGCCTCAAGGGCCTGGACTTCCCTGCCATCCAGCACGTCATCAATTATGACATGCCAGAGGAGATTG
 AGAACTATGTACACCGGATTGGCCGCACCGGGCGCTCGGAAACACAGGCATCGCCACTACCTTCATCAA
 CAAAGCGTGTGATGAGTCAAGTGTGATGGACCTCAAAGCGCTGCTGCTAGAAGCCAAGCAGAAGGTGCCG
 CCCGTGCTGCAGGTGCTGATTGCGGGGATGAGTCCATGCTGGACATTGGAGGAGAGCGCGCTGTGCCCT
 TCTGCGGGGCGCTGGGTATCGGATCACTGACTGCCCCAAACTCGAGGCTATGCAGACCAAGCAGGTGAG
 CAACATCGGTGCAAGGACTACCTGGCCACAGCTCCATGGACTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201898 representing NM_016222
 Red=Cloning site Green=Tags(s)

MEESEPERKRARTDEVPAGGSRSEAEDDEDEDYVYVPLRQRRQLLLQKLLQRRRKGAEEEEQQDSGSEP
 RGEDDDIPLGPQSNVSLLDQHQLKEKAEARKESAKEKQLKEEEKILESVAEGRALMSVKEMAKGITYDD
 PIKTSWTPPRYVLSMSEERHERVRKHYHILVEGDGIPPIKSFKEMKFPAAILRGLKKKGIHHTPIQIQ
 GIPTILSGRDMIGIAFTGSGKTLVFTLPVIMFCLQEKRLPFSKREGPYGLIICPSRELARQTHGILEYY
 CRLLQEDSSPLLRCALCIGGMSVKEQMETIRHGVHMMVATPGRLMDLLQKKMVSLLDCRYLALDEADMI
 DMGFEGDIRTIFSYFKGQRQTLLFSATMPKKIQNFAKSALVKPVTINVGRAGAASLDVIQEVYVKEEAK
 MYLLECLQKTPPPVLIFAEKKADVDAIHEYLLKGVAVAIHGGKQDEERTKAIEAFREGKKDVLVATD
 VASKGLDFPAIQHVINYDMPPEEIEYVHRIGRGRSGNTGIATTFINKACDESVLMDLKALLLEAKQKVP
 PVLQVLHCGDESMLDIGGERGCAFCCGLGHRITDCPKLEAMQTKQVSNIGRKDYLAHSSMDF

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_016222

ORF Size: 1866 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 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.

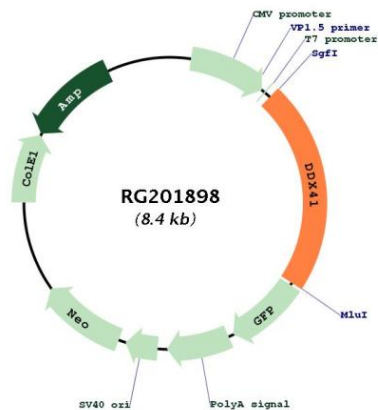
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_016222.4](#)

RefSeq Size:	2118 bp
RefSeq ORF:	1869 bp
Locus ID:	51428
UniProt ID:	Q9UJV9
Cytogenetics:	5q35.3
Domains:	DEAD, helicase_C, zf-CCHC
Protein Families:	Druggable Genome
Gene Summary:	<p>DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They 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. Based on their distribution patterns, some members of the DEAD box protein family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. The protein encoded by this gene is a member of the DEAD box protein family and interacts with several spliceosomal proteins. In addition, the encoded protein may recognize the bacterial second messengers cyclic di-GMP and cyclic di-AMP, resulting in the induction of genes involved in the innate immune response. [provided by RefSeq, Jan 2017]</p>

Product images:



Circular map for RG201898