

Product datasheet for **RC201898**

DDX41 (NM_016222) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX41 (NM_016222) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DDX41
Synonyms:	ABS; MPLPF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC201898 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGAGTCGGAACCCGAACGGAAGCGGGCTCGCACCGACGAGGTGCCTGCCGGAGGAAGCCGCTCCG
 AGGCGGAAGATGAGGACGACGAGGACTACGTGCCCTATGTGCCGTTACGGCAGCGCCGGCAGCTACTGCT
 CCAGAAGCTGCTGCAGCGAAGACGCAAGGGAGCTGCGGAGGAAGAGCAGCAGGACAGCGGTAGTGAACCC
 CGGGGAGATGAGGACGACATCCCCTAGGCCCTCAGTCCAACGTCAGCCTCCTGGATCAGCACCGACACC
 TTAAGAGAAGGCTGAAGCGCGAAAGAGTCTGCCAAGGAGAAGCAGCTGAAGGAAGAAGAGAAGATCCT
 GGAGAGTGTGCCGAGGGCCGAGCATTGATGTCAGTGAAGGAGATGGCTAAGGGCATTACGTATGATGAC
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 GGAAGAAATACCACATCCTGGTGGAGGGAGACGGTATCCCACCACCCATCAAGAGCTTCAAGGAAATGAA
 GTTTCCTGCAGCCATCCTGAGAGGCCTGAAGAAGAAAGGCATTACCACCCAACCCATTAGATCCAG
 GGCATCCCCACCATTTCTATCTGGCCGTGACATGATAGGCATCGCTTTCACGGGTTAGGCAAGACTGG
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 TGCCGCTGTGCAGGAGGACAGCTCACCCTCCTGCGCTGCGCCCTCTGCATTGGGGGCATGTCCTGTA
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 GCTGCAGAAGAAGATGGTCAAGCTAGACATCTGTCGCTACCTGGCCCTGGACGAGGCTGACCGCATGATC
 GACATGGGCTTCGAGGGTGACATCCGTACCATTCTCTCTACTTCAAGGGCCAGCGACAGACCTGCTCT
 TCAGTGCCACCATGCCGAAGAAGATTAGAATTTGCTAAGAGTGCCTTGTAAGCCTGTGACCATCAA
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 GTTGCCTCAAGGGCCTGGACTTCCCTGCCATCCAGCACGTCATCAATTATGACATGCCAGAGGAGATTG
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 TCTGCGGGGGCCTGGGTATCGGATCACTGACTGCCCCAAACTCGAGGCTATGCAGACCAAGCAGGTGAG
 CAACATCGGTGCAAGGACTACCTGGCCACAGCTCCATGGACTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201898 protein sequence
 Red=Cloning site Green=Tags(s)

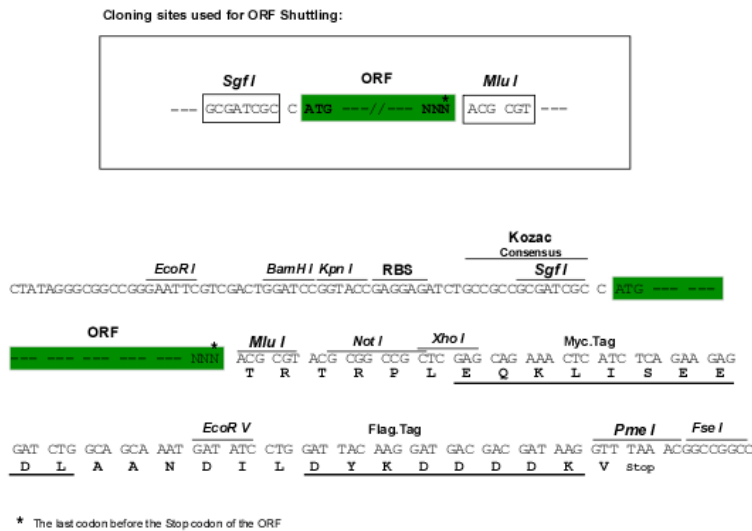
MEESEPERKRARTDEVPAGGSRSEAEDDEDEDYVYVPLRQRRLQLLQKLLQRRRKGAEEEEQQDSGSEP
 RGDEDDIPLGPQSNVSLLDQHQLKEKAEARKESAKEKQLKEEEKILESVAEGRALMSVKEMAKGITYDD
 PIKTSWTPPRYVLSMSEERHERVRKYYHILVEGDGIPPIKSFKEMKFPAAILRGLKKKGIHHTPIQIQ
 GIPTILSGRDMIGIAFTGSGKTLVFTLPVIMFCLQEKRLPFSKREGPYGLIICPSRELARQTHGILEYY
 CRLLQEDSSPLLRALCIGGMSVKEQMETIRHGVHMMVATPGRLMDLLQKKMVSLDICRYLALDEADDMI
 DMGFEGDIRTIFSYFKGQRQTLLFSATMPKKIQNF AKSALVKPVTINVGRAGAASLDVIQVEYVKEEAK
 MYYLLECLQKTPPPVLIFAEKKADVDAIHEYLLKGVAVAIHGGKQDEERTKAI EAFREGKKDVLVATD
 VASKGLDFPAIQHVINYDMP EIEINYVHRIGRTGRSGNTGIATTFINKACDESVLMDLKALLLEAKQKVP
 PVLQVLHCGDESMLDIGGERGCAF CGGLGHRITDCPKLEAMQTKQVSNIGRKDYLAHSSMDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6138_a03.zip

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.

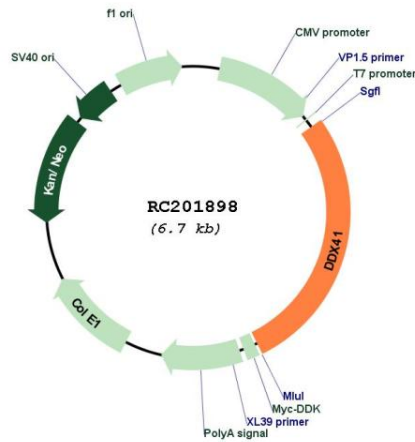
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.

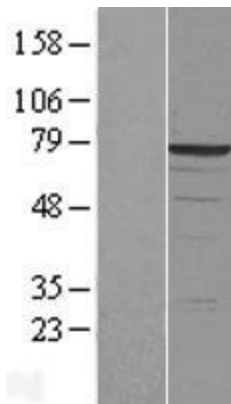
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
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
MW:	69.8 kDa
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>

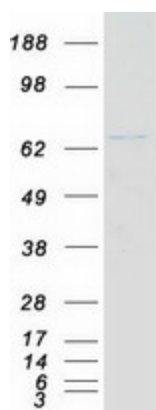
Product images:



Circular map for RC201898



Western blot validation of overexpression lysate (Cat# [LY402528]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201898 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DDX41 protein (Cat# [TP301898]). The protein was produced from HEK293T cells transfected with DDX41 cDNA clone (Cat# RC201898) using MegaTran 2.0 (Cat# [TT210002]).