

Product datasheet for RC239901

DDX46 (NM_001300860) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX46 (NM_001300860) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DDX46
Synonyms:	Prp5; PRPF5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC239901 representing NM_001300860 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTCGGGAGTCACGCCACTATCGAAAACGATCGGCATCCCGGGTCGCTCTGGAAGTCGGTCTAGAA
GTCGCTCACCCCTCAGACAAAAGAAGTAAACGTGGAGATGACAGACGGTCTAGAAGTAGAGATAGAGATAG
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GTGGTCGGGTCACAAATCTTCGAAGAGTGACATATGTTGTTTTAGATGAAGCAGACAGAATGTTTGACAT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC239901 representing NM_001300860
 Red=Cloning site Green=Tags(s)

MGRESRHYRKRASRGRSGRSRSPDKRSKRGDRRRSRDRDRRRERSRSDKRRSRSDRKRRLRR
 SRSRERDRSRERRRSRDRRRSRSRGRRSRSSSPGNKSKKTENRSRKEKTDGGESSKEKKDKDDK
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 AEAEKEGEMEGEELDPLDAYMEEVKKEVKFNMRSVKGGGNEKKSQPTVTKVTVVTTKAVVSDKK
 KGELMENDQDAMEYSSEEEVDLQ TAL TGYQTKQRKLLPVDHGKIEYEPFRKNFYVEPELAKMSQEEV
 NVFRLEMEGITVKGKCPKPIKSWVQCGISMKILNSLKKHGYEKPTPIQTQAIPAIMSGRDLIGIAKTGS
 GKTIAFLLPFRHIMDQRSLEEGEPIAVIMPTRELALQITKECKKFSKTLGLRVVVCVYGGTGISEQIA
 ELKRGAEIIVCTPGRMIDMLAANSRVTNLRRVTYVVLDEADRMFDMGFEPQVMRIVDNVRPDRQTVMS
 ATFPRAMEALARRILSKPIEVQVGGRSVVCSDVEQQVIVIEEEKFLKLELLGHYQESGSVIFVQKQE
 HADGLLKDLMRASYPMSLHGGIDQYDRDSIINDFKNGTCKLLVATSVAARGLDVKHLILVVNYSCPNHY
 EDYVHRAGRTGRAGNKGYAYTFITEDQARYAGDIKALELSGTAVPPDLEKLWSDFKDQKAEGKIIKKS
 SGFSGKGFKFDETE QALANERKKLQKAALGLQSDDEDAVDIDEQIESMFNSKKRVKDMAAPGTSSVPA
 PTAGNAEKLEIAKRLALRINAQKNLGIESQVDVMQATNAILRGGTILAPTVSAKTIAEQLAEKINAKLN
 YVPLEKQEEERQDGGQNESFKRYEELEINDFPQTARWKVTSKEALQRISEYSEAAITIRGTYFPPGKEP
 KEGERKIYLAIESANELAVQKAKAEITRLIKEELIRLQNSYQPTNKGRYKVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

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.
RefSeq:	NM_001300860.2
RefSeq Size:	5750 bp
RefSeq ORF:	3099 bp
Locus ID:	9879
UniProt ID:	Q7L014
Cytogenetics:	5q31.1
Protein Pathways:	Spliceosome
MW:	117.9 kDa
Gene Summary:	<p>This gene encodes a member of the DEAD box protein family. 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 this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. The protein encoded by this gene is a component of the 17S U2 snRNP complex; it plays an important role in pre-mRNA splicing. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2014]</p>