

Product datasheet for **SC114794**

DDX46 (NM_014829) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX46 (NM_014829) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDX46
Synonyms:	Prp5; PRPF5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_014829, the custom clone sequence may differ by one or more nucleotides

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ATGGGTCGGGAGTCACGCCACTATCGAAAACGATCGGCATCCCGGGTTCGCTCTGGAAGTCGGTCTAGAA
GTCGCTCACCCCTCAGACAAAAGAAGTAAACGTGGAGATGACAGACGGTCTAGAAGTAGAGATAGAGATAG
GAGGAGAGAGAGGTCTCGTAGCAGGGATAAAGAAGATCTCGGTCAAGGGACAGGAAGCGTCTGAGACGT
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AAATCACCAGGCTCATAAAGAAGAGCTGATCCGGCTGCAAAATTCATACCAACCAACAAATAAAGGAAG
ATACAAAGTCTTATAG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014829 unedited
 TGTAATACGACTCACTATAGGGCGGCCGAATTCGGCACGAGGCTGGGATGGCCGCCAC
 AGCTGTAGGTGCTGCTAGTGTTTAGCGCTGGTCTTTGCCGGGCGTTGAGGGCAGCTCAGC
 CTCCTTGTGTCCGGTTCGCCTGTGCGTGGTACTCAAGGGCACCAGTATCCCAGCGGTC
 GGCAGCATGGGTCCGGAGTCACGCCACTATCGAAAACGATCGGCATCCCAGGGTTCGCTCT
 GGAAGTCGGTCTAGAAGTCGCTCACCCCTCAGACAAAAGAAGTAAACGTGGAGATGACAGA
 CGGTCTAGAAGTAGAGATAGAGATAGGAGGAGAGAGAGGTCTCGTAGCAGGGATAAAAG
 AAGATCTCGGTCAAGGGACAGGAAGCGTCTGAGACGTTCCAGAAGTAGAGAGAGAGACAG
 AAGCCGAGAGCGAAGAAGATCTCGAAGTAGAGACAGGAGACGCTCAAGGGAGTAGAAGCC
 GGGGGCCGGCGATCCCGATCCTCCAGTCTGAAAATAAAAGCAAGAAAAGTGAAGATAGA
 TTCTAGGTCCAAAGAGAAAAGTATGGTGGNGGGAAAAGNNTCTAAGAGAAGAANAAGAA
 CAAGATGACAAGGAGGATGAAAAAGAANAAGATGCTGGCAACTTTGACCAGAATAAGCTG
 GGAAGAAGAAATGAGAAAGCGAANAGAAAGAGTAAAAAATGGCGAAGAGAGCAACGTAN
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 AAGGGNAGGTTAAAGGACGATGATGATGACAAAAATGATCCTGCAGAAGCTGAAAAGGAA
 GGAAAGAAATGGAGGGTGAAGAGTTAAATCCCTTAAATGCTTACTGAAAAAGGAAAGAG
 GAATTAATAAATTTACTGAAAAGTGTAAAGGGGGGGGGAAATGAAAAAATTTCTGCCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014829 unedited
 ACCCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCTTTTGTAAAGACTTC
 TATTATAACATTCTTAAATCCAGTTCATATTGTTCCAGAGTCATGTAACATCAAGGTGGG
 GACACAAAATATGATAGTGAATTTTACCTTTTCTTAGGAAATGATCACAATTTTCATTGAA
 AGTACAGGATAAAGTGAATAGCCCTTAAACGACTTGTGTACTTTATTGTCTTCAATAGAA
 AGTTCAAATATTTCCATTTTTTAAACCTCTAGAATATTATCCGGACATTTAAAATATTGA
 TATTTGAGTTTACATTAAGGACATCACTCTGAAAACAGGCTGGCTTTAAATATAGTT
 TGACTGATTGTGGGGTACTTACGGACAGATTTCTTTACCAAGTACCAGTTTCTTATATT
 TAAAAAATCAGCAAGATAGAATTTAAAAATCTTCATTTACAATACATTGTAAGTGC
 AGACAGCAACTGCCACATACATCATAGACCAGCACAGGTAATAAATCTTTTTTCCGGATGT
 CTATAAGACTTTGTATCTTCTTTATTTGTTGGTTGGTATGAATTTTGCAGCCGATCAG
 CTCTTCTTTTATGAGCCTGGTATTTCTGCCTTTGCTTTCTGCACAGCCAGTTCAATGGC
 ACTTTCAATTGCCAAGTAAATCTCCGCTCGCCTTCTTGGGTTCTTTGCCAGGAGGGAA
 GTANGTTCCTCTGATTGTAATTGCGGCTTCAGAGTATTCACTGATTCTCTGCAGAGCTTC
 TTAGAGGTAACCTTTCCCTAGCAGTCTGTGGAAAGNCATTGATCTCTAAATCTTCTCATA
 TCTCTAAAAGATNCATTCTGCCACCATCCTGGCTCTCTTCTTCTGTTCTCTACGCACA
 TATTGAGCTGGCATTGATCTTTTACAGCAGTGTCTG

Restriction Sites:

NotI-NotI

ACCN:

NM_014829

Insert Size:

4100 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_014829.2](#), [NP_055644.2](#)

RefSeq Size: 5695 bp

RefSeq ORF: 3096 bp

Locus ID: 9879

UniProt ID: [Q7L014](#)

Cytogenetics: 5q31.1

Domains: DEAD, helicase_C

Protein Pathways: Spliceosome

Gene Summary: 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]

Transcript Variant: This variant (2) has an alternate splice site in the coding region but maintains the reading frame, compared to variant 1. The resulting isoform (2) lacks an internal aa, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.