

Product datasheet for **SC324257**

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: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_014829.2
GGCCGCCACAGCTGTAGGTGCTAGTGTGTTAGCGCTGGTCTTTGCCGGCGTTGAGGG
CAGCTCAGCCTCCTTGTGTTGTCGGTTCCGCTGTGCGTGGTACTCAAGGGCACCAGTATT
CCCGCGGTCGGCAGCATGGGTCGGGAGTCACGCCACTATCGAAAACGATCGGCATCCCGG
GGTCGCTCTGGAAGTCGGTCTAGAAGTCGCTCACCCCTCAGACAAAAGAAGTAAACGTGGA
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GCCAAAACAGGAAGTGGAAAGACCATTGCTTTTCTGTTGCCATGTTTAGACACATCATG
GATCAGAGGTCATTAGAGGAAGGAGAGGGGCCAATAGCTGTCATCATGACTCCAACCTCGA
GAACTGGCTTTACAGATTACTAAAGAGTGAAGAAGTTTTCCAAGACTTTGGGACTTAGA



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CAAAATGGGTTGAGAGTTTTTGTTCATTTTTATCATATAAATGGGCAAAAAGTAGTT
GGACTAATTTCCGTTTTTATACAAGTAAAGATTTAATAGTAAAAAAAAAAAAAAAAA

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Restriction Sites:

Please inquire

ACCN:

NM_014829

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).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<u>NM_014829.2</u> , <u>NP_055644.2</u>
RefSeq Size:	5695 bp
RefSeq ORF:	3096 bp
Locus ID:	9879
UniProt ID:	<u>Q7L014</u>
Cytogenetics:	5q31.1
Domains:	DEAD, helicase_C
Protein Pathways:	Spliceosome
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> <p>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.</p>