

## Product datasheet for **SC327262**

### DHX16 (NM\_001164239) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DHX16 (NM_001164239) Human Untagged Clone
Tag:	Tag Free
Symbol:	DHX16
Synonyms:	DBP2; DDX16; NMOAS; PRO2014; Prp2; PRP8; PRPF2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001164239, the custom clone sequence may differ by one or more nucleotides

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ATGTCGGAAGATCCTAGAGGTCCCAAGGTACCACGAAAGGCAGTGGTAGAAAAGCCAGCT
CGGGCAGCAGAGCGAGAGGCCCGGGCCCTGCTGGAGAAGAACCGATCTTATAGGTTACTG
GAAGACAGTGAAGAGAGCAGTGAGGAGACTGTGAGTAGGGCTGGAAGCAGCCTCCAGAAG
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CTTCTCCGGGAGTTCCTCTGTGAGCCTGACCTGGCGAGTTACAGCGTGGTATGGTGGAT
GAGGCACACGAAAGGACCCTACACACAGACATTCTTTGGATTGATCAAGGATGTTGCT
CGCTTCCGACCTGAGCTCAAGGTCTGGTGGCTTACGCCACAATGGACTGCCCGTTT

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TCCACCTTCTTTGATGACGCCCTGTGTTTCTGAATCCCCGGACGCAGGTTTCCTGTGGAC  
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 CAGATCCATGTGACCCAGCCCCCTGGGGATATCCTGGTGTTCCTGACAGGACAGGAGGAG  
 ATTGAGGCTGCCTGTGAGATGCTCCAGGATCGCTGCCGCCGCCTGGGCTCCAAAATCCGG  
 GAGCTCCTGGTGTGCCATTTATGCCAATCTGCCCTGACATGCAGGCCCGTATCTTC  
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 CTCACCATTGAGGGCATCATTTATGTGCTGGATCCAGGGTCTGTAAAGCAGAAGAGCTAC  
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 GGCAATGTCGTGTGCTGCTCAAGAGCTTAGGGATCCATGACCTAATGCACCTTTGATTTT  
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 ACAGTGAACAGCAGCAGACAGTCTTATTATCCAACTCCTCCTCTTTGAGCAACAG  
 CCACGCTGGCTGCTCTACCACGAACTTGTCTTGACCACCAAAGAGTTCATGAGACAGGTA  
 CTGGAGATTGAGAGCAGTTGGCTTCTGGAGGTGGCTCCCAATTATTATAAGGCCAAGGAG  
 CTAGAAGATCCCATGCTAAGAAAATGCCCAAAAAAATAGGCAAAACACGAGAAGAGCTA  
 GGG

- Restriction Sites:** Please inquire
- ACCN:** NM\_001164239
- 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:**
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\\_001164239.1](#), [NP\\_001157711.1](#)
- RefSeq Size:** 3156 bp

RefSeq ORF: 2946 bp

Locus ID: 8449

UniProt ID: [O60231](#)

Cytogenetics: 6p21.33

Protein Pathways: Spliceosome

**Gene Summary:** 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. This gene encodes a DEAD box protein, which is a functional homolog of fission yeast Prp8 protein involved in cell cycle progression. This gene is mapped to the MHC region on chromosome 6p21.3, a region where many malignant, genetic and autoimmune disease genes are linked. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2018]  
Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus compared to isoform 1.