

## Product datasheet for **SC320743**

### **DHX16 (NM\_003587) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DHX16 (NM\_003587) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** DHX16  
**Synonyms:** DBP2; DDX16; NMOAS; PRO2014; Prp2; PRP8; PRPF2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC (PS100020)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_003587.3  
GGTACGGGAAGACAGCTTTGGGATGTCGGAAGATCCTAGAGGTCCCAAGGTAGCTGACT  
GCGAAGCTGAGGCTCCAGCCGAGGCTCCAGGCCTTGACCGGCCAGCAGTGAGCGCGG  
CTGCCCGACGCTTCAGGGCCGGGAGCAGGGAGCGTGAGTCGCCATGGCGACGCCGGCGGG  
TCTGGAGCGCTGGTTCAGGACGAGCTGCACTCGGTGTTGGGGCTGAGCGAGCGGCACGT  
CGCCAGTTTCTGATCGGTACCGCACAGCGCTGCACCTCTGCCGAGGAGTTCGTGCAGCG  
CCTACGAGACTGATACCTTGGATCTCAGTGGGCCGGCCGGGACTTCGCCCTGAGACT  
CTGGAACAAGGTACCACGAAAGGCAGTGGTAGAAAAGCCAGCTCGGGCAGCAGAGCGAGA  
GGCCCGGGCCCTGCTGGAGAAGAACCGATCTTATAGGTTACTGGAAGACAGTGAAGAGAG  
CAGTGAGGAGACTGTGAGTAGGGCTGGAAGCAGCCTCCAGAAGAAACGTAAGGAGCGAA  
ACACCTCAGGAAGAAGCGTGAGGAAGAAGAGGAGGAAGAGGCTTCTGAGAAAGGGAAGAA  
GAAAACAGGGGGGAGTAAACAGCAGACAGAGAAGCCAGAGTCGGAAGATGAGTGGGAACG  
GACAGAGCGTGAACGCCTTCAGGACCTGGAGGAGCGTGATGCCTTTGCTGAGCGGGTTCCG  
ACAGCGGGACAAGGATCGGACTCGAAATGTCTGGAACGGTCAGACAAGAAGGCTTATGA  
AGAGGCTCAGAAGCGCCTCAAGATGGCCGAGGAAGACCGGAAGGCCATGGTCCCTGAGCT  
GCGGAAGAAATCTCGCCGAGAGTACCTGGCTAAGCGGGAGCGAGAGAAGCTTGAGGACCT  
GGAGGCGGAGCTGGCTGATGAGGAGTTCCTTTTTGGGGACGTGGAGCTGAGCCGGCACGA  
GCGGCAGGAGCTCAAATATAAGCGGCGAGTGCGGGATCTCGCCCGGAGTACCGGGCAGC  
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TGCCCTCTCAGGAGCCCAAGTATCAACTGGTGTGGAGGAGGAGGAGACCATTGAGTTTGT  
CCGGGCCACTCAGCTCCAGGGTATGAGGAGCCGTGAGCTCCACCCACTTCAACTCAGGC  
CCAGCAGAAAGAGTCCATCCAGGCCGTCCGCCGAGCCTCCCGGTGTTCCCATTTTCGAGA  
GGAGCTCTGGCTGCTATTGCAATCACCAAGTCTCATATTGAAGGCGAGACAGGCTC  
AGGAAGACCACCAGATCCCGCAGTATCTTTGAGGAGGGTTATACAAACAAGGGTAT  
GAAGATTGCCTGCACCAACCCCGGAGAGTGGCTGCCATGAGTGTGGCCGCCGAGTGGC



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CCGGGAGATGGGTGTGAAGCTTGGGAATGAGGTTGGCTACAGCATCCGCTTTGAGGACTG
CACATCAGAGCGAACTGTCTCCGCTACATGACAGATGGGATGCTTCTCCGGGAGTTCCT
CTCTGAGCCTGACCTGGCGAGTTACAGCGTGGTGTGGTGGATGAGGCACACGAAAGGAC
CCTACACACAGACATTCTCTTTGGATTGATCAAGGATGTTGCTCGCTCCGACCTGAGCT
CAAGGTCTGGTGGCTTACGCCACAATGGACACTGCCCGTTTTTCCACCTTCTTTGATGA
CGCCCCGTGTTTTCGAATCCCCGGACGCAGGTTTCTGTGGACATCTTCTACACCAAGGC
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GACAGTCTTATTATCCCAACTCCTCCCTCTTTGAGCAACAGCCACGCTGGCTGCTCTA
CCACGAACTTGTCTTGACCACCAAAGAGTTCATGAGACAGGTAAGGAGATTGAGAGCAG
TTGGCTTCTGGAGGTGGCTCCCCATTATTATAAGGCCAAGGAGCTAGAAGATCCCCATGC
TAAGAAAATGCCCAAAAAAAAAAATAGGCAAAACACGAGAAGAGCTAGGGTAAGAGAAGGA
CGTAAACAGAACCTGACACCAGCTCCTTTTCTTCTATACATTATTAATACCTATTA
TAAAATTATTTTTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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- Restriction Sites:** Please inquire
- ACCN:** NM\_003587
- 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\\_003587.3](#), [NP\\_003578.1](#)

**RefSeq Size:** 3377 bp

**RefSeq ORF:** 3126 bp

**Locus ID:** 8449

**UniProt ID:** [O60231](#)

**Cytogenetics:** 6p21.33

**Domains:** DEAD, helicase\_C, HA2

**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 (1) encodes the longest isoform (1).