

## Product datasheet for **SC324588**

### DDX23 (NM\_004818) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DDX23 (NM_004818) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDX23
Synonyms:	prp28; PRPF28; SNRNP100; U5-100K; U5-100KD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_004818.2  
CGACGGCTCCGCGACGTTGAGGCCGCGTTGGCGGTTCCAGACTCAGGGTGTGGCAGGAG  
AGCTGGCTGACAAAAAGGACCGTGATGCATCACCTTCCAAGGAGAAAGGAAGCGATCAC  
GGACTCCTGACAGAGAGCGGGATAGAGACCGGGACCGGAAGTCTTCCCATCTAAAGATA  
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AACGATCCAGCTTATCTCCTGGTCGAGGAAAAGACTTTAAATCTCGGAAGGACAGAGACT  
CTAAGAAGGATGAAGAGGATGAACATGGTGATAAGAAGCCTAAGGCCAGCCATTATCCC  
TGGAGGAGCTTCTGGCCAAGAAAAGGCTGAGGAAGAAGCTGAGGCTAAGCCCAAGTTCC  
TCTCTAAAGCAGAACGAGAGGCTGAAGCTCTAAAGCGACGGCAGCAGGAGGTGGAAGAGC  
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AGATGTTGGAAGATCCTCAGGAACGGGAACGTCGGGAACGCAGGGAGAGGATGGAACGGG  
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GTAAGAAGGAAGCCAAGCAGCGCTGGGATGATCGTCATTGGTCTCAGAAAAGTTAGATG  
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AGTCAGACCAAGGCCCTTATGCCATCATCTGGCTCCCACCCGTGAGTTGGCTCAACAGA  
TTGAGGAAGAGACCATCAAGTTTGGGAAACCGCTAGGTATCCGCACTGTGGCTGCATTG



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GTGGCATCTCCAGAGAAGACCAGGGCTTCAGGCTGCGCATGGGTTGTGAGATTGTGATTG
CTACCCCTGGGCGTTTGATTGATGTGCTGGAGAACCGCTACCTGGTGCTGAGCCGCTGTA
CCTATGTGGTTCTGGATGAGGCAGATAGGATGATTGACATGGGCTTTGAGCCAGATGTCC
AGAAGATCCTGGAGCACATGCCTGTGAGCAACCAAGCCAGACACGGATGAGGCTGAGG
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TGTTACAGGCCACCATGCCCCAGCGGTGGAGCGTCTGGCCAGGAGCTATCTTCGGCGAC
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CACCATGAGGATTACAGACAGTGAATCTTACTGTCATCTGGACAGCTGTTTTCTGTTT
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GTATGCTCTAGGCATCCCTCCCCAGGGGATTTTCTAAGTAGATGGGGGACACGGTGA
ACTGGCTGTGCCATCTTTGTCAGTGAATCTCTGTTTTCTATTCTCTGAGAAGAT
AAGTTTGTATGTTCTGAGAATAAATACATGAATATTA

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**Restriction Sites:**

Please inquire

**ACCN:**

NM\_004818

**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\\_004818.2](#), [NP\\_004809.2](#)

RefSeq Size: 3288 bp

RefSeq ORF: 2463 bp

Locus ID: 9416

UniProt ID: [Q9BUQ8](#)

Cytogenetics: 12q13.12

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 U5 snRNP complex; it may facilitate conformational changes in the spliceosome during nuclear pre-mRNA splicing. An alternatively spliced transcript variant has been found for this gene, but its biological validity has not been determined. [provided by RefSeq, Jul 2008]