

Product datasheet for **SC117124**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC117124 sequence for NM_004818 edited (data generated by NextGen Sequencing)

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ATGGCAGGAGAGCTGGCTGACAAAAAGGACCGTGATGCATCACCTTCCAAGGAGGAAAGG
AAGCGATCACGGACTCCTGACAGAGAGCGGGATAGAGACCGGGACCGGAAGTCTTCCCA
TCTAAAGATAGAAAGCGGCATCGTTCAAGGGATAGACGTCGAGGAGGCAGCCGTTCTCGC
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GACAGAGACTCTAAGAAGGATGAAGAGGATGAACATGGTGATAAGAAGCCTAAGGCCAG
CCATTATCCCTGGAGGAGCTTCTGGCCAAGAAAAAGGCTGAGGAAGAAGCTGAGGCTAAG
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GTGGAAGAGCGGCAGAGGATGCTTGAAGAAGAGAGGAAGAAAAGGAAACAGTTCCAAGAC
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CAAGCTATCCTGGAAAGCCAGTGTCTTCTGTCCCCCGAACTAGCCAACCCAGAT
GCCCAGCATAAGCCAGGCACCATCTCACCAAGAAGCGCCGGGAAGAGACCATCTTTGCC
TGA
    
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Clone variation with respect to NM_004818.2

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004818 unedited TATAGGGCGCCCGCAATTTCGGCACGAGGGCTCCGCGACGTTGAGGCCGCGTTGGGCGGT TCAGACTCAGGGTGATGGCAGGAGAGCTGGCTGACAAAAAGGACCGTGATGCATCACCTT CCAAGGAGGAAAGGAAGCGATCACGGACTCCTGACAGAGAGCGGGATAGAGACCGGGACC GGAAGTCTTCCCATCTAAAGATAGAAAGCGGCATCGTTCAAGGGATAGACGTCGAGGAG GCAGCCGTTCTCGCTCTCGTTCCCGTTCCAAATCTGCAGAAAGAGAACGACGGCACAAAAG AACGAGAACGAGATAAAGGAGCGGGATCGGAATAAGAAGGACCGAGATCGAGACAAGGATG GGCACAGACGGGACAAGGACCGTAAACGATCCAGCTTATCTCCTGGTCGAGGAAAAGACT TTAAATCTCGGAAGGACAGAGACTCTAAGAAGGATGAAGAGGATGAACATGGTGATAAGA AGCCTAAGGCCAGCCATTATCCCTGGAGGAGCTTCTGGCCAAGAAAAAGGCTGAGGAAG AAGCTGAGGCTAAGCCCAAAGTCTCTCTAAAGCAGAACGAGAGGCTGAAGCTCTAAAGC GACGGCAGCAGGAGGTGGAANGAGCGCANNAGATGCTTTGAGAAGNAGAGGAANGAAAGG GAACAGTCCAAGACTTGGGCANGAAAGATGTGGAAGATCCTCANGAACGGGAACGTCNGN AACGCANGGGAGAGATGGNACGGNNAGACCNATGGAANTGANGATGANNGAGGGCNGCAN NANATCCNGNAGAGAAGATANAGCAGGNACTGCNTGCCATANNGACGTACCTGGGTGC ATCAAAAGCGGCCGGAACGAAACTCTCATGACCGAAATGTTNTGAGTGGATGCTTGAGA CCTTCATGACTCACCCCTGACANNACGNACAGTGCAATGTAGGGCAGCTATGCAGCATGA CTAGCACCAACGAGACGTCGTTTTTGGACTAGGGAAAAGCGACTGAAANGACGAGAGGCA ATCCACTTAAGGACACAGCTGTT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004818 unedited GCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTAAATATTCATGTATTTATTCTC AAAACATACAAACTTATCTTCTCAGAGAATAGAAAACAGAGATTTCACTCAGTGACAAAG ATGGACACAGCCAGTTACCGGTGTCCTCCCATCTACTTAAAAATCCCCTGGGGGAGGGG ATGCCTAAAGCATACAGCACCCCTTGGTGCAGGCTGTGCACAGGTCTAAAGACTCTCAA CTTCCTTACCATCCAACAGGAAAACAGCTGTCCAGATGACAGTAAGATTCCACTGTCT GTAATCCTCATGGTGCCAGGTCTCCTGGGGCATCTAGGGCAATGATGCTACTGCAGTTTA TGCAGTTACACAGTCAAGTCTGTGCCAAAGGAGTCCCATCCGGCGGCCAGGTTTCTGTT CAGTCTGGGGAGCAATGCCAACTGGCTGCCCATAGCCTGGCATGAGCTGATGGCCCAG TGCAATCCCAAAGCAAAGAAGGGCATAACTGGGCAAGAAGCTGTGGTAATTTGCTCTCC CTGCCTCCGACAGCGTCGCTCCTCTCTTTTGCAGCCCCACCCAGGCCTTCTGACCTGAG GGTCTGGGCTAGGGAGTTGGATTGTTTTCTAACCCCATTTCCAACATGAGGACCTGG AAAGAGGATGCGAGGTTCTGAAAACAGGATCCAGCCCTTTGGAGATGCCCTTATCCAAC AAGAAACGCCGGGCACGGAAAGATGTCTTTTTCCGGGGCTTCTGGCGAGGACGGCCCT GGTTTTCTGGCATTGGCGGTTGTTATTTCCGGCACCGCAAACCCGGCTTTCCCGTT ATTTTGTACTCCTTCAACCACTAAGCTTTTTTGTAGGAGTTTGGCCCCCTCTCTCTCC TTTCCCTCCCGCCCATGCGGTTGTCTCCCCCCCCCTCCCCACTTATCCCACCT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_004818
Insert Size:	3270 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_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]