

Product datasheet for **RC201758**

DDX23 (NM_004818) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX23 (NM_004818) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DDX23
Synonyms:	prp28; PRPF28; SNRNP100; U5-100K; U5-100KD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC201758 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGGAGAGCTGGCTGACAAAAAGGACCGTGCATGCACCTTCCAAGGAGAAAGGAAGCGATCAC
 GGACTCCTGACAGAGAGCGGGATAGAGACCGGGACCGGAAGTCTTCCCCATCTAAAGATAGAAAGCGGCA
 TCGTTCAAGGGATAGACGTCGAGGAGGCAGCCGTTCTCGCTCTCGTTCCCGTTCCAAATCTGCAGAAAGA
 GAACGACGGCACAAAGAACGAGAACGAGATAAGGAGCGGGATCGGAATAAGAAGGACCGAGATCGAGACA
 AGGATGGGCACAGACGGGACAAGGACCGTAAACGATCCAGCTTATCTCCTGGTCGAGGAAAAGACTTTAA
 ATCTCGGAAGGACAGAGACTCTAAGAAGGATGAAGAGGATGAACATGGTGATAAGAAGCCTAAGGCCACG
 CCATTATCCCTGGAGGAGCTTCTGGCCAAGAAAAAGGCTGAGGAAGAAGCTGAGGCTAAGCCCAAGTTCC
 TCTCTAAAGCAGAACGAGAGGCTGAAGCTCTAAGCGACGGCAGCAGGAGGTGGAAGAGCGGCAGAGGAT
 GCTTGAAGAAGAGAGGAAGAAAAGGAAACAGTTCCAAGACTTGGGCAGGAAGATGTTGGAAGATCCTCAG
 GAACGGGAACGTCGGGAACGCAGGGAGAGGATGGAACGGGAGACCAATGGAATGAGGATGAGGAAGGGC
 GGCAGAAGATCCGGGAAGAGAAGGATAAGAGCAAGGAACTGCATGCCATTAAGGAGCGTTACCTGGTGG
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 GCGAACCTGGAAGAAAAGGAGCAGGAGGAGGCAAGACTCCGCAAACTTCGTAAGAAGGAAGCCAAGCAG
 CGCTGGGATGATCGTCATTGGTCTCAGAAAAAGTTAGATGAGATGACGGACAGGGACTGGCGGATCTTCC
 GTGAGGACTACAGCATCACCAACAAAGGTGGCAAGATCCCAATCCCATCCGATCCTGGAAGACTTTC
 TCTGCCCCACACATCTTGGAGGTCATTGATAAGTGTGGCTACAAGGAACCAACACTATACAGCGTCAG
 GCAATTCCTATTGGGCTACAGAATCGTGACATCATTGGTGTGGCTGAGACTGGCAGTGGCAGACAGCAG
 CCTTCTCATCCCTCTGCTGGTCTGGATCACCACACTTCCAAAATTGACAGGATCGAAGAGTCAGACCA
 AGGCCCTTATGCCATCATCCTGGCTCCCACCCGTGAGTTGGCTCAACAGATTGAGGAAGAGACCATCAAG
 TTTGGGAAACCGCTAGGTATCCGCACTGTGGCTGTATTGGTGGCATCTCCAGAGAAGACCAGGGCTTCA
 GGCTGCGCATGGGTTGTGAGATTGTGATTGCTACCCTGGGCGTTTATTGATGTGCTGGAGAACCCTA
 CCTGGTGTGAGCCGCTGTACCTATGTGGTCTGGATGAGGCAGATAGGATGATTGACATGGGCTTTGAG
 CCAGATGTCCAGAAGATCCTGGAGCACATGCCTGTCAGCAACCAGAAGCCAGACCGGATGAGGCTGAGG
 ACCCTGAGAAGATGCTGGCCAACCTTTGAGTCGGGAAAACATAAGTACCGCAAACAGTCATGTTACGGC
 CACCATGCCCCAGCGGTGGAGCGTCTGGCCAGGAGCTATCTTCGGCGACCTGCTGTGGTGTACATTGGC
 TCCGCAGGCAAGCCCATGAGCGTGTGGAACAGAAGGTCTTCTCATGTCAGAGTCAGAAAAGAGGAAAA
 AGCTGTGGCAATCTTGGAGCAAGGCTTTGACCCACCCATCATTATTTTTGTCAACCAGAAGAAGGGCTG
 CGACGTGTTGGCCAAATCCCTGGAGAAGATGGGGTACAATGCTTGCACACTGCACGGTGGAAAAGGCCAG
 GAGCAGCGAGAGTTTGCCTTGTCCAACCTCAAGGCTGGGGCAAGGATATTTTGGTGGCTACAGATGTGG
 CTGGTCTGGTATTGACATCCAAGATGTGTCTATGGTTGTCAACTATGATATGGCCAAAAATATTGAAGA
 TTACATCCACCGCATTGGCCGCACGGGACGAGCAGGCAAGAGTGGGGTGGCCATCACCTTCTCACAAAA
 GAGGACTGCTGTGTTCTACGAGCTGAAGCAAGCTATCCTGAAAAGCCAGTGTCTTCCGTCCCCCG
 AACTAGCCAACCCAGATGCCAGCATAAGCCAGGCACCATCCTACCAAGAAGCGCCGGGAAGAGAC
 CATCTTTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201758 protein sequence
Red=Cloning site Green=Tags(s)

MAGELADKKDRDASPSKEERKRSRTPDRERDRDRDRKSSPSKDRKRHRSRDRRRGGSSRSRSRSKSAER
ERRHKERERDKERDRNKKDRDRDKDGHRRDKDRKRSSLSPGRGKDFKSRKDRDSKKDEEDEHGDKPKAQ
PLSLEELLAKKKAEAAEAKPKFLSKAEREAEALKRRQQEVEERQRMLEEEERKKRQFQDLGRKMLEDPQ
ERERRERRERMERETNGNEDEEGRQKIREEKDKSKELHAIKERYLGGIKKRRRTRHLNDRKFVFEWDASE
DTSIDYNPLYKERHQVQLLGRGFIAGIDLKQKREQSRFYGDLMEKRRTLEEKEQEEARLRKLRKKEAKQ
RWDDRHSQKKLDEMTDRDWRFREDYSITTKGGKIPNPIRSWKDSSLPPHILEVIDKCGYKEPTPIQRQ
AIPIGLQNRDIIGVAETGSGKTA AFLIPLLWITTLPKIDRIEESDQGPYAILAPTRELAQQIEEETIK
FGKPLGIRTVAVIGGISREDQGFRLRMGCEI VIATPGRLIDVLENRYLVLSRCTYVVLDADRMI DMGFE
PDVQKILEHMPVSNQKPD TDEAEDPEKMLANFESGKH KYRQTMFATMPPAVERLARSYLRRP AVVYIG
SAGK PHERVEQKVFLMSESEKRKLLAILEQGFDPPIIIFVNQKKGCDVLAKSLEKMGYNACTLHGGKGQ
EQREFALSNLKAGAKDILVATDVAGRGIDIQDVMVVNYDMAKNI EDYIHRIGRTGRAGKSGVAITFLTK
EDSAVFYELKQAI LESPVSSCPPELANHPDAQHKPGTILTKKRREETIFA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6128_g12.zip

Restriction Sites: Sgfl-Mlul

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_004818.3](#)

RefSeq Size: 3288 bp

RefSeq ORF: 2463 bp

Locus ID: 9416

UniProt ID: [Q9BUQ8](#)

Cytogenetics: 12q13.12

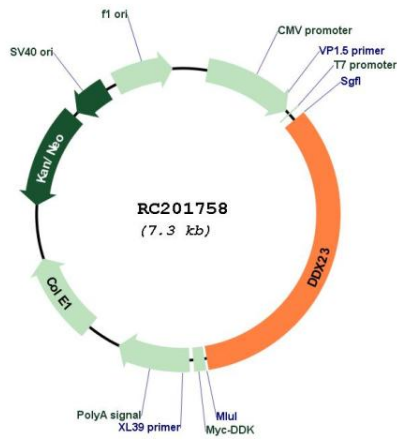
Domains: DEAD, helicase_C

Protein Pathways: Spliceosome

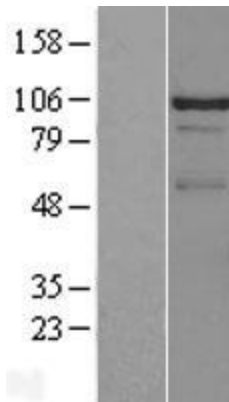
MW: 95.6 kDa

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]

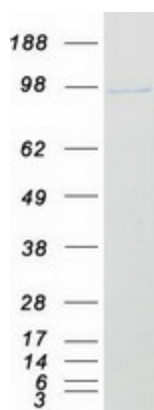
Product images:



Circular map for RC201758



Western blot validation of overexpression lysate (Cat# [LY401514]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201758 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DDX23 protein (Cat# [TP301758]). The protein was produced from HEK293T cells transfected with DDX23 cDNA clone (Cat# RC201758) using MegaTran 2.0 (Cat# [TT210002]).