

## Product datasheet for RC206170

### H2BW1 (NM\_001002916) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** H2BW1 (NM\_001002916) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** H2BW1  
**Synonyms:** H2BFWT  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC206170 representing NM\_001002916  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGCGTACCGAAGTGCCCGGCTTCCCGGTCCACAACCGCCATTGTCTGGTCGTGCCATCTAATGG  
 CCACTGCCTCCGCCATGGCTGGACCTTCTCTGAGACGACCTCTGAGGAACAGCTGATCACCCAGGAGCC  
 CAAAGAGGCCAACTCCACTACGTCCCAGAAGCAGAGCAAGCAGAGGAAGCGAGGGCGCCATGGGCCCGC  
 AGGTGCCACTCCAAGTCCCGGGGACAGCTTCGCCACCTATTTCCGCCGGGTGCTGAAGCAGGTTACC  
 AGGGCCTCAGCCTTTCCCGGGAGGCCGTGAGTGTATGGATTCTTTGGTTCATGACATATTGGACCGCAT  
 CGCCACCGAGGCTGGTACCTGGCCCGCTCCACCAAGCGCCAGACCATCACTGCCTGGGAGACCCGGATG  
 GCTGTGCGCCTGCTGCTGCCGGGAGATGGGCAAGCTCGCCGAGTCCGAAGGCACGAAGGCTGTCTCA  
 GAACCTCACTGTATGCCATACAGCAACAGAGAAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC206170 representing NM\_001002916  
 Red=Cloning site Green=Tags(s)

MLRTEVPRLPRSTTAIVWSCHLMATASAMAGPSSETTSEEQLITQEPKEANSTTSQKQSKQRKRGRHGPR  
 RCHSNCRGDSFATYFRRVLKQVHQGLSLSREAVSVMDSLVHDILDRIATEAGHLARSTKRQTITAWETRM  
 AVRLLLPQMGLAESEGTKAVLRTSLYAIQQQRK

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1459\\_h04.zip](https://cdn.origene.com/chromatograms/ja1459_h04.zip)



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001002916

ORF Size: 525 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_001002916.4](#), [NP\\_001002916.3](#)

RefSeq Size: 935 bp

RefSeq ORF: 444 bp

Locus ID: 158983

UniProt ID: [Q7Z2G1](#)

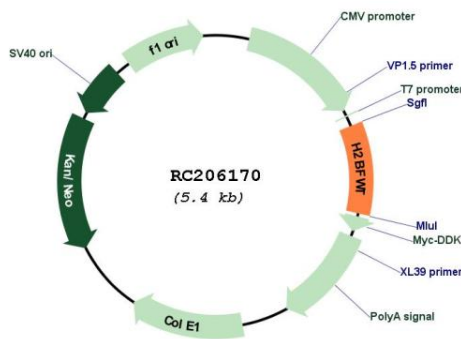
**Cytogenetics:** Xq22.2

**Protein Pathways:** Systemic lupus erythematosus

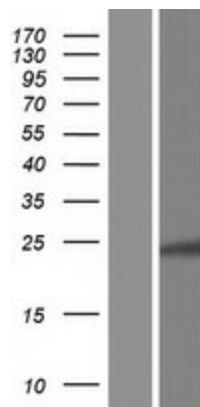
**MW:** 19.4 kDa

**Gene Summary:** Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene encodes a replication-independent histone that is a member of the H2B histone family that is specifically expressed in sperm nuclei. A polymorphism in the 5' UTR of this gene is associated with male infertility.[provided by RefSeq, Oct 2015]

**Product images:**



Circular map for RC206170



Western blot validation of overexpression lysate (Cat# [LY424112]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206170 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).