

Product datasheet for **SC300484**

H2BW1 (NM_001002916) Human Untagged Clone

Product data:

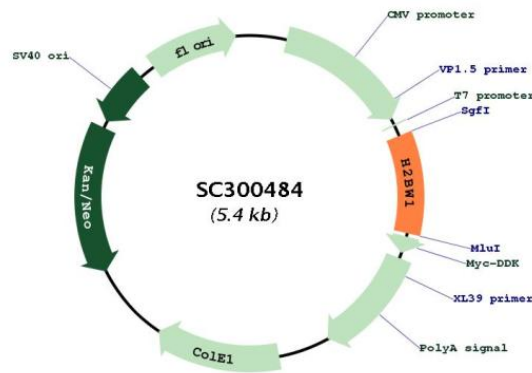
Product Type:	Expression Plasmids
Product Name:	H2BW1 (NM_001002916) Human Untagged Clone
Tag:	Tag Free
Symbol:	H2BW1
Synonyms:	H2BFWT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC300484 representing NM_001002916. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCTGCGTACCGAAGTGCCCGGCTTCCCGGTCCACAACCGCCATTGTCTGGTCGTGCCATCTAATG
GCCACTGCCTCCGCCATGGCTGGACCTTCTCTGAGACGACCTCTGAGGAACAGCTGATCACCCAGGAG
CCCAAAGAGGCCAACTCCACTACGTCCCAGAAGCAGAGCAAGCAGAGGAAGCGAGGGCGCCATGGGCC
CGCAGGTGCCACTCCAACCGCCGGGGACAGCTTCGCCACCTATTTCCGCCGGGTGCTGAAGCAGGTT
CACCAGGGCTCAGCCTTCCCGGGAGGCCGTGAGTGTCATGGATTCTTTGGTTCATGACATATTGGAC
CGCATCGCCACCGAGGCTGGTCACCTGGCCCGCTCCACCAAGCGCCAGACCATCACTGCCTGGGAGACC
CGGATGGCTGTGCGCCTGCTGCTGCCGGGCAGATGGGCAAGCTCGCCGAGTCCGAAGGCACGAAGGCT
GTCCTCAGAACTTCACTGTATGCCATACAGCAACAGAGAAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:


ACCN:	NM_001002916
Insert Size:	528 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).
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_001002916.4](#)

RefSeq Size: 922 bp

RefSeq ORF: 528 bp

Locus ID: 158983

UniProt ID: [Q7Z2G1](#)

Cytogenetics: Xq22.2

Protein Pathways: Systemic lupus erythematosus

MW: 19.6 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]