

Product datasheet for **RC221082**

H2BC5 (NM_021063) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: H2BC5 (NM_021063) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: H2BC5
Synonyms: dj221C16.6; H2B.1B; H2B/a; H2B/b; H2B/g; H2B/h; H2B/k; H2B/l; H2BFA; H2BFB; H2BFG; H2BFH; H2BFK; H2BFL; HIRIP2; HIST1H2BC; HIST1H2BD; HIST1H2BE; HIST1H2BF; HIST1H2BG; HIST1H2BI
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC221082 representing NM_021063
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

**ATGCCTGAACCTACCAAGTCTGCTCCTGCCCAAGAAGGGCTCCAAGAAGGCGGTGACTAAGGCTCAGA
AGAAGGACGGGAAGAAGCGCAAGCGCAGCCGCAAGGAGAGCTATTCAGTGTATGTGTACAAGGTGCTGAA
GCAGGTCCATCCCGACACCGGCATCTTCCAAGGCAATGGGGATCATGAATTCCTTCGTAACGACATC
TTCGAGCGCATCGCAGGCGAGGCTTCCCGCTGGCGCATTACAACAAGCGCTCGACCATCACCTCCAGGG
AGATCCAGACGGCCGTGCGCCTGCTGCTTCCGGGGAGCTGGCCAAGCACGCCGTGTCGGAGGGCACCAA
GGCCGTCACCAAGTACACCAGTTCCAAG**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence: >RC221082 representing NM_021063
Red=Cloning site **Green**=Tags(s)

MPEPTKSAPAPKKGSKKAVTKAQKDKGKRRKRSRSESYSVYVYKVLQVHPDTGISSKAMGIMNSFVNDI
FERIAGEASRLAHYNKRSTITSREIQTAVRLLLPGELAKHAVSEGTKAVTKYTSSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8043_b06.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021063

ORF Size: 378 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_021063.4](#)

RefSeq Size: 523 bp

RefSeq ORF: 381 bp

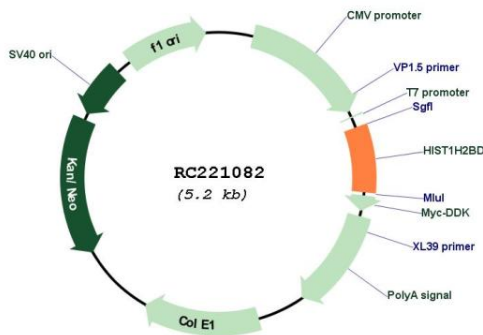
Locus ID: 3017

UniProt ID: [P62807](#)

Cytogenetics: 6p22.2
Protein Pathways: Systemic lupus erythematosus
MW: 13.8 kDa

Gene Summary: Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H2B family. Two transcripts that encode the same protein have been identified for this gene, which is found in the large histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015]

Product images:



Circular map for RC221082