

Product datasheet for **RC202257**

H3.3B (H3F3B) (NM_005324) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: H3.3B (H3F3B) (NM_005324) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: H3.3B
Synonyms: H3-3A; H3.3B; H3F3B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC202257 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCAACCAAGCAGACTGCTCGTAAGTCCACCGGTGGGAAAGCCCCCGCAAACAGCTGGCCACGA
AAGCCGCCAGGAAAAGCGCTCCCTCTACCGCGGGGTGAAGAAGCCTCATCGCTACAGGCCCGGGACCGT
GGCGCTTCGAGAGATTTCGTCGTTATCAGAAGTCGACCGAGCTGCTCATCCGGAAGCTGCCCTTCAGAGG
TTGGTGAGGGAGATCGCGCAGGATTTCAAACCGACCTGAGGTTTCAGAGCGCAGCCATCGGTGCGCTGC
AGGAGGCTAGCGAAGCGTACCTGGTGGTCTGTTCAAGATACCAACCTGTGTGCCATCCACGCTAAGAG
AGTCACCATCATGCCAAAGACATCCAGTTGGCTCGCCGATACGGGGAGAGAGACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202257 protein sequence
Red=Cloning site Green=Tags(s)

MARTKQTARKSTGGKAPRKQLATKAARKSAPSTGGVKKPHRYRPGTVLREIRRYQKSTELLIRKLPFQR
LVREIAQDFKTLRFQSAALQEAAYLVGLFEDTNLCAIHAKRVTIMPKDIQLARRIRGERA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6003_b10.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_005324

ORF Size: 408 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_005324.5](#)

RefSeq Size: 2753 bp

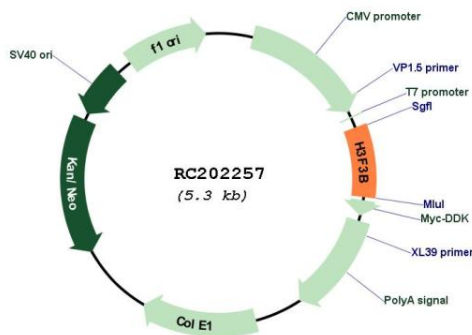
RefSeq ORF: 411 bp

Locus ID: 3021
UniProt ID: [P84243](#)
Cytogenetics: 17q25.1

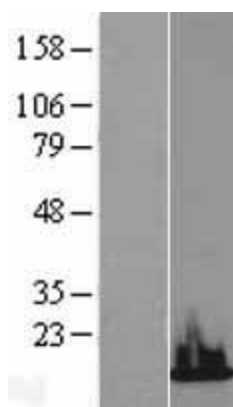
Domains: H3, histone
Protein Pathways: Systemic lupus erythematosus
MW: 15.3 kDa

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 contains introns and its mRNA is polyadenylated, unlike most histone genes. The protein encoded by this gene is a replication-independent histone that is a member of the histone H3 family. Pseudogenes of this gene have been identified on the X chromosome, and on chromosomes 5, 13 and 17. [provided by RefSeq, Oct 2015]

Product images:



Circular map for RC202257



Western blot validation of overexpression lysate (Cat# [LY401642]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202257 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).