

Product datasheet for **RC201249**

Histone H1.2 (HIST1H1C) (NM_005319) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Histone H1.2 (HIST1H1C) (NM_005319) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Histone H1.2
Synonyms:	H1.2; H1C; H1F2; H1s-1; HIST1H1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201249 representing NM_005319 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCGAGACTGCTCCTGCCGCTCCCGCTGCCGCGCCTCCTGCGGAGAAGGCCCTGTAAAGAAGAAGG
CGGCCAAAAGGCTGGGGTACGCCTCGTAAGGCGTCTGGTCCCCGGTGTGAGAGCTCATCACCAAGGC
TGTGGCCGCTCTAAAGAGCGTAGCGGAGTTTCTCTGGCTGCTCTGAAAAAGCGTTGGCTGCCCGCGC
TATGATGTGGAGAAAAACAACAGCCGTATCAAACCTGGTCTCAAGAGCCTGGTGAGCAAGGGCACTCTGG
TGCAAACGAAAGGCACCGGTGCTTCTGGCTCCTTAAACTCAACAAGAAGGCAGCCTCCGGGAAGCCAA
GCCAAGGTTAAAAAGGCGGGCGGAACCAACCTAAGAAGCCAGTTGGGGCAGCCAAGAAGCCCAAGAAG
GCGGCTGGCGGCCAACTCCGAAGAAGAGCGCTAAGAAAACCCGAAGAAAGCGAAGAAGCCGGCCGCGG
CCACTGTAACCAAGAAAGTGGCTAAGAGCCCAAGAAGGCCAAGGTTGCGAAGCCCAAGAAGCTGCCAA
AAGTGCTGCTAAGGCTGTGAAGCCCAAGCCGCTAAGCCCAAGGTTGTCAAGCCTAAGAAGCGCGGCC
AAGAAGAA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC201249 representing NM_005319
Red=Cloning site Green=Tags(s)

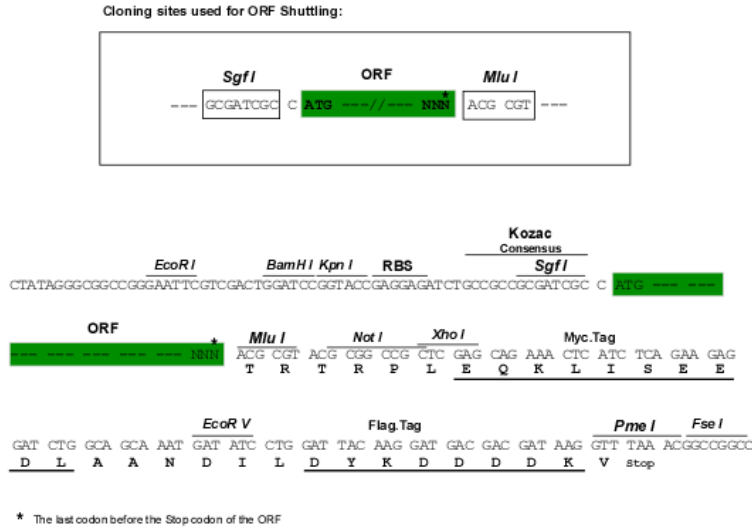
MSETAPAAPAAAPPAEKAPVKKKAACKAGGTPRKASGPPVSELITKAVAASKERSGVSLAALKKALAAAG
 YDVEKNNRSRIKLGKSLVSKGTLVQTKGTGASGSFKLNKKAASGEAKPKVKKAGGTPKPKPVGAACKPKK
 AAGGATPKKSAKKTAKKAAATVTKKVAKSPKKAKVAKPKKAASAAKAVKPKAAKPKVVKPKKAAP
 KKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6084_g05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005319

ORF Size: 639 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_005319.4](#)

RefSeq Size: 732 bp

RefSeq ORF: 642 bp

Locus ID: 3006

UniProt ID: [P16403](#)

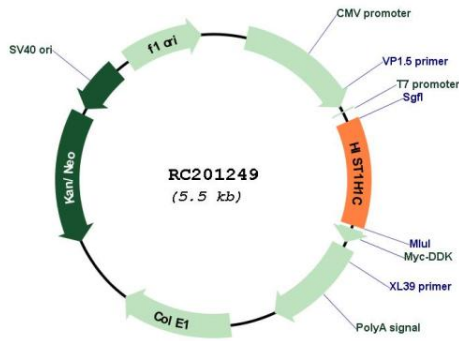
Cytogenetics: 6p22.2

Domains: linker_histone

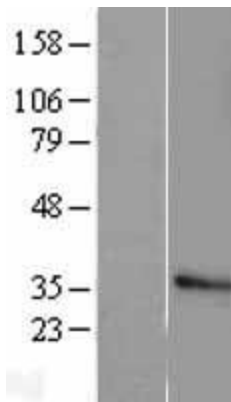
MW: 21.2 kDa

Gene Summary: Histones are basic nuclear proteins responsible for 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 is intronless and encodes a replication-dependent histone that is a member of the histone H1 family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6. [provided by RefSeq, Aug 2015]

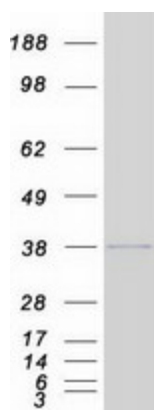
Product images:



Circular map for RC201249



Western blot validation of overexpression lysate (Cat# [LY401640]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201249 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HIST1H1C protein (Cat# [TP301249]). The protein was produced from HEK293T cells transfected with HIST1H1C cDNA clone (Cat# RC201249) using MegaTran 2.0 (Cat# [TT210002]).