

Product datasheet for RC210123

Histone H1t (HIST1H1T) (NM_005323) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Histone H1t (HIST1H1T) (NM_005323) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Histone H1t
Synonyms:	dj221C16.2; H1.6; H1FT; H1t; HIST1H1T
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210123 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCTGAAACCGTGCCTGCAGCTTCTGCCAGTGCTGGTGTAGCCGCTATGGAGAACTTCCAACCAAGA
 AGCGAGGGAGGAAGCCGGCTGGCTTGATAAGTGCAAGTCGCAAGTGCCGAACCTCTCTGTGTCCAAGTT
 GATCACCAGGGCCCTTTCAGTGTCACAGGAACGAGTAGGTATGTCTTTGGTTGCGCTCAAGAAGGCATTG
 GCCGCTGCTGGCTACGACGTAGAGAAGAATAACAGCCGCATCAAAGTGTCCCTCAAGAGCTTAGTGAACA
 AGGGAATCCTGGTGCAAACAGGGGTACTGGTGCTTCCGGTTCCCTTAAGCTTAGTAAGAAGGTGATTCC
 TAAATCTACCAGAAGCAAGGCTAAAAAGTCAGTTTCTGCCAAGACCAAGAAGCTGGTTTTATCCAGGGAC
 TCCAAGTCACCAAGACTGCTAAAAACCAATAAGAGAGCCAAGAAGCCGAGAGCGACAACCTCTAAAACTG
 TTAGGAGCGGGAGAAAGGCTAAAGGAGCCAAGGGTAAGCAACAGCAGAAGAGCCAGTGAAGGCAAGGGC
 TTCGAAGTCAAAATTGACCCAACATCATGAAGTTAATGTTAGAAAGGCCACATCTAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC210123 protein sequence Red=Cloning site Green=Tags(s)
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MSETVPAASASAGVAAMEKLPTKKRGRKPAGLISASRKVPNLSVSKLITEALSVSQERVGMSLVALKKAL
 AAAGYDVEKNNSRIKLSLKSLVNGILVQTRGTGASGSFKLSKKVIPKSTRSKAKKSVSAKTKKLVL SRD
 SKSPKTAKNRAKKPRATTPKTVRSGRKAKGAKGKQQKSPVKARASKSLTQHHEVNVKATSKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV


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Chromatograms: https://cdn.origene.com/chromatograms/mk6767_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005323

ORF Size: 621 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_005323.4](#)

RefSeq Size: 725 bp

RefSeq ORF: 624 bp

Locus ID: 3010

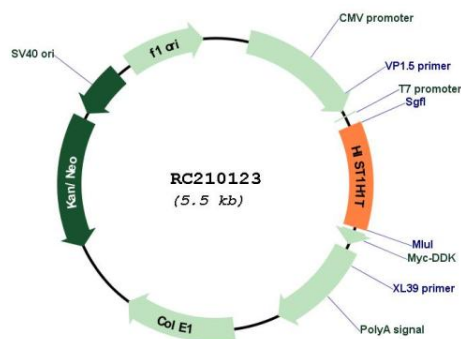
UniProt ID: [P22492](#)

Cytogenetics: 6p22.2

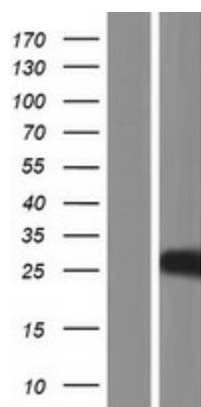
MW: 22 kDa

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 RC210123



Western blot validation of overexpression lysate (Cat# [LY417382]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210123 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).