

Product datasheet for MC214371

H4c18 (NM_175657) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H4c18 (NM_175657) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	H4c18
Synonyms:	H4c1; H4c2; H4c3; H4c4; H4c6; H4c8; H4c9; H4c11; H4c12; H4c14; H4f16; Hist1; Hist1h4n
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	<p>>MC214371 representing NM_175657</p> <p>Red=Cloning site Blue=ORF Orange=Stop codon</p> <p>TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC</p> <p>ATGTCTGGTCGTGGCAAAGGAGGAAAAGGCCTGGGCAAAGGCGGCCAAGCGCCACCGCAAAGTGCTGCGGATAACATCCAGGGCATCACGAAGCCCGCCATCCGCCGCTGGCCCGCGCGGAGGAGTGAAGCGCATCTCCGGCCTCATCTACGAGGAGACCCGGGTGTGCTGAAGGTGTTCTGGAGAACGTGATCCGCGACGCCGTCACCTACACGGAGCACGCCAAGCGCAAGACTGTACC GCCATGGACGTGGTCTACGCGCTCAAGCGCCAGGGCCGCACCCTCTACGGATTCGGCGGCTAA</p> <p>ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA</p>
Restriction Sites:	Sgfl-MluI
ACCN:	NM_175657
Insert Size:	312 bp


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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](#)

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_175657.2](#), [NP_783588.1](#)

RefSeq Size: 366 bp

RefSeq ORF: 312 bp

Locus ID: 319161

UniProt ID: [P62806](#)

Cytogenetics: 13 A3.1

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 is intronless and encodes a replication-dependent histone that is a member of the histone H4 family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. [provided by RefSeq, Sep 2015]