

## Product datasheet for RC215596

### H4C12 (NM\_003541) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	H4C12 (NM_003541) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	H4C12
Synonyms:	dj160A22.1; H4-16; H4/d; H4C1; H4C2; H4C3; H4C4; H4C5; H4C6; H4C8; H4C9; H4C11; H4C13; H4C14; H4C15; H4F2iii; H4FD; HIST1H4K
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215596 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCTGCGCCGCGCAAAGGCGGGAAGGTCTTGGCAAAGGCGGCGCTAAGCGCCACCGTAAAGTACTGC  
GCGACAATATCCAGGCATCACCAAGCCGGCCATCCGGCGCCTTGCTCGCCGCGGCGCGGTGAAGCGCAT  
CTCCGGCCTCATCTACGAGGAGACTCGCGGGTGTGAAGGTGTTCTGGAGAACGTGATCCGGGACGCC  
GTGACCTATACAGAGCACGCCAAGCGCAAGACGGTCACCGCCATGGATGTGGTCTACGCGCTCAAGCGCC  
AGGGCCGACCCCTACGGTTTCGGTGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC215596 protein sequence Red=Cloning site Green=Tags(s)
	MSGRGKGGKGLGKGGAKRHRKVLRDNIQGITKPAIRRLARRGGVKRISGLIYEETRGVLKVFLENVIRDA VTYTEHAKRKTVTAMDVVYALKRQGRTRYGFGG
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk6445\\_h12.zip](https://cdn.origene.com/chromatograms/mk6445_h12.zip)

Restriction Sites: Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_003541

**ORF Size:** 309 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\\_003541.3](#)

**RefSeq Size:** 354 bp

**RefSeq ORF:** 312 bp

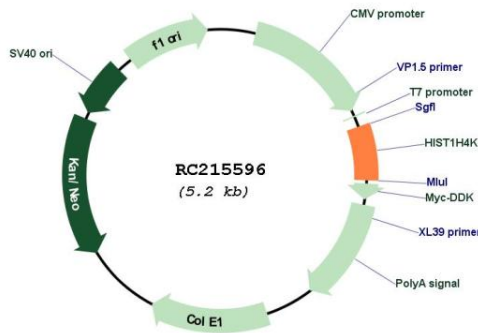
**Locus ID:** 8362

**UniProt ID:** [P62805](#)

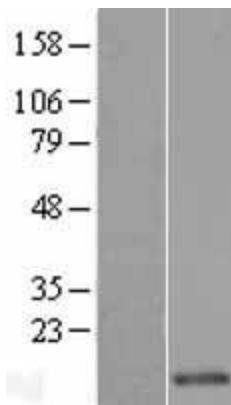
**Cytogenetics:** 6p22.1  
**Protein Pathways:** Systemic lupus erythematosus  
**MW:** 11.4 kDa

**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 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. This gene is found in the small histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015]

**Product images:**



Circular map for RC215596



Western blot validation of overexpression lysate (Cat# [LY418629]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215596 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).