

# **Product datasheet for RG205736**

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OriGene Technologies, Inc.

### H4C11 (NM 021968) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** H4C11 (NM\_021968) Human Tagged ORF Clone

Tag: TurboGFP Symbol: H4C11

Synonyms: dJ160A22.2; H4-16; H4/e; H4C1; H4C2; H4C3; H4C4; H4C5; H4C6; H4C8; H4C9; H4C12; H4C13;

H4C14; H4C15; H4F2iv; H4FE; HIST1H4I

Mammalian Cell

Selection:

Neomycin

**Vector:** pCMV6-AC-GFP (PS100010)

**E. coli Selection:** Ampicillin (100 ug/mL)

ORF Nucleotide >RG205736 representing NM\_021968

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTCTGGCCGCGCAAAGGCGGAAGGGTCTTGGCAAAGGCGGCGCTAAGCGCCACCGTAAAGTACTGCGCGACAATATCCAGGGCATCACCAAGCCGGCCATCCGGCGCCCTTGCTCGCCGCGGCGCGTGAAGCGCATCCCGGCCTCATCTACGAGGAGACTCGCGGGTGCTGAAGGTGTTCCTGGAGAACGTGATCCGGGACGCCGTGACCCTATACAGAGCACGCCAAGCGCAAGACGGTCACCGCCATGGATGTGGTCTACGCGCTCAAGCGCC

AGGGCCGCACCCTCTACGGTTTCGGTGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205736 representing NM\_021968

Red=Cloning site Green=Tags(s)

MSGRGKGGKGLGKGGAKRHRKVLRDNIQGITKPAIRRLARRGGVKRISGLIYEETRGVLKVFLENVIRDA

VTYTEHAKRKTVTAMDVVYALKRQGRTLYGFGG

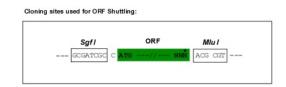
TRTRPLE - GFP Tag - V

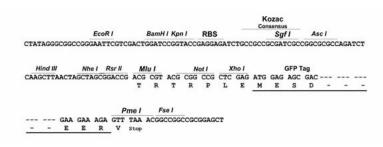
**Restriction Sites:** Sgfl-Mlul





#### **Cloning Scheme:**





**ACCN:** NM\_021968

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 021968.4

RefSeq Size: 356 bp RefSeq ORF: 312 bp Locus ID: 8363



UniProt ID: P62805

Cytogenetics: 6p22.1

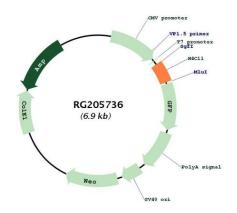
**Protein Pathways:** Systemic lupus erythematosus

**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 RG205736