

Product datasheet for MG200342

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OriGene Technologies, Inc.

H4c9 (NM 175656) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: H4c9 (NM 175656) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: H4c9

Synonyms: H4c1; H4c2; H4c3; H4c4; H4c6; H4c8; H4c11; H4c12; H4c14; H4f16; Hist1; Hist1h4i

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >MG200342 representing NM_175656

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

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTCTGGTCGTGGCAAAGGAGAAAAGGCCTGGGCAAAGGCGCCCAAGCGCCACCGCAAAGTGCTTCGGGACAACATCCAGGGCATCACCAAGCCCCGCCATCCGCCGCCTGGCCCGGCGGAGGAGGAGTGAAGCGCATCCCGGCCTCATCTACGAGGAGACCCGCGGTGTGCTGAAGGTGTTCCTGGAGAACGTGATCCGCGACGCCGTCACCCTACCACGGAGCACGCCAAGCCGCAAGACCGTCACCGCCATGGACGTGTCTACGCGCTCAAGCGCC

AGGGCCGTACTCTGTACGGGTTCGGCGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200342 representing NM_175656

Red=Cloning site Green=Tags(s)

MSGRGKGGKGLGKGGAKRHRKVLRDNIQGITKPAIRRLARRGGVKRISGLIYEETRGVLKVFLENVIRDA

VTYTEHAKRKTVTAMDVVYALKRQGRTLYGFGG

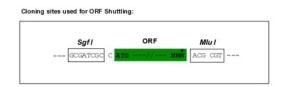
TRTRPLE - GFP Tag - V

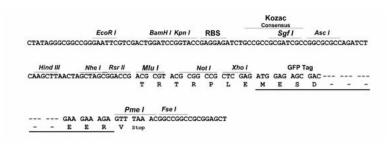
Restriction Sites: Sgfl-Mlul



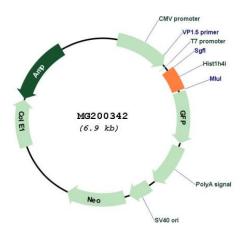


Cloning Scheme:





Plasmid Map:



ACCN: NM_175656

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

ORIGENE

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: <u>NM 175656.3</u>

 RefSeq Size:
 562 bp

 RefSeq ORF:
 312 bp

 Locus ID:
 319158

 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, Aug 2015]