

## Product datasheet for **MG217523**

### H2ac20 (NM\_175662) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** H2ac20 (NM\_175662) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** H2ac20  
**Synonyms:** H2a-613; H2a-613b; Hist2h; Hist2h2ac  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG217523 representing NM\_175662  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGGCCGTGGCAAACAGGGAGGCAAGGCCCGCGCCAAGGCCAAGTCGCGGTCTTCCGGGGCCGGC  
TACAGTTCGGGTGGGGCGTGTGCACCGCTGCTGCGCAAGGGCAACTACGCGGAGCGGTGGCGCCGG  
CGCGCCGTATACATGGCGCGGTGCTGGAGTACCTAACGCGGAGATCCTGGAGCTGGCGGCAACGCG  
GCCCGGACAACAAGAAGACGCGCATCATCCCGGCCATCTGCAGCTGGCCATCCGCAACGACGAGGAGC  
TCAACAAGCTGCTGGCAAAGTACGATCGCACAGGGCGGCGTCTGCCAACATCCAGGCCGTGCTGCT  
GCCAAGAAGACCGAGAGCCACAAGGCTAAGAGCAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG217523 representing NM\_175662  
Red=Cloning site Green=Tags(s)  
MSGRGKQGGKARAKAKSRSSRAGLQFPVGRVHRLLRKGNYAERVGAGAPVYMAAVLEYLTAEILELAGNA  
ARDNKKTRIIPRHLQLAIRNDEELNKLKGVTIAQGGVLPNIQAVLLPKKTESHKAKSK

**TRTRPLE** - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3114\\_h09.zip](https://cdn.origene.com/chromatograms/ja3114_h09.zip)

**Restriction Sites:** SgfI-MluI



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**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\\_175662.2](#), [NP\\_783593.1](#)

**RefSeq Size:** 468 bp

**RefSeq ORF:** 390 bp

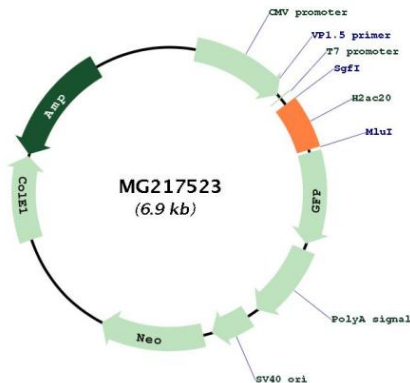
**Locus ID:** 319176

**UniProt ID:** [Q64523](#)

**Cytogenetics:** 3 F2.1

**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 H2A family. [provided by RefSeq, Aug 2015]

**Product images:**



Circular map for MG217523