

# **Product datasheet for MG200741**

# H2aw (NM\_178218) Mouse Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** H2aw (NM\_178218) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: H2aw

Synonyms: Hist3; Hist3h2a

Mammalian Cell Neomycin

Selection:

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

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

ORF Nucleotide >MG200741 representing NM\_178218

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTCTGGTCGTGGCAAGCAGGGCGGCAAAGCTCGTGCAAAAGCGAAGTCTCGTTCTTCCCGTGCCGGCCTGCAGTTTCCAGTGGGCCGTGTGCACCGCCTTCTCCGTAAGGGTAATTATTCGGAGCGGGTCGGCGCTGGTGCCCCGGTGTACCTGGCGCGCTGTGCTAGAATATCTGACTGCTGAGATCCTGGAATTGGCTGGTAATGCGGCCGCGCGACAATAAGAAGACGCGAATCATCCCGCGCCACCTGCAGTTGGCCATCCGCAACGACGAGGAGCTCAACAAGCTGCTGGCCGTGACCATCGCGCAGGGCGCGTCCTGCCCAACATCCAGGCCGTGCTACT

GCCCAAGAAGACCGAGAGCCACCACAAGGCCAAGGGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200741 representing NM\_178218

Red=Cloning site Green=Tags(s)

MSGRGKQGGKARAKAKSRSSRAGLQFPVGRVHRLLRKGNYSERVGAGAPVYLAAVLEYLTAEILELAGNA

ARDNKKTRIIPRHLQLAIRNDEELNKLLGRVTIAQGGVLPNIQAVLLPKKTESHHKAKGK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



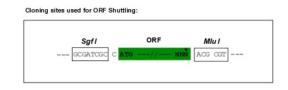
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

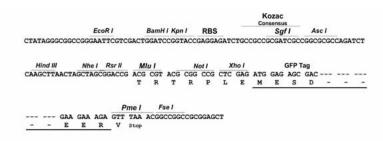
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

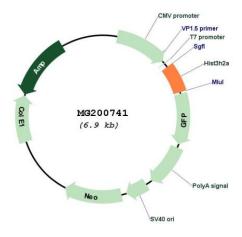


#### **Cloning Scheme:**





## Plasmid Map:



**ACCN:** NM\_178218

ORF Size: 390 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

#### H2aw (NM\_178218) Mouse Tagged ORF Clone - MG200741

**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 178218.4</u>

RefSeq Size: 1991 bp
RefSeq ORF: 393 bp
Locus ID: 319162
UniProt ID: Q8BFU2
Cytogenetics: 11 B1.3

**Gene Summary:** Histones are basic nuclear proteins that are responsible for the nucleosome structure of the

chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin 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]