

## 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 Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200741 representing NM\_178218  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGGTCGTGGCAAGCAGGGCGCAAAGCTCGTGCAAAGCGAAGTCTCGTTCTTCCCGTGCCGGCC  
TGCAGTTTCCAGTGGGCCGTGTGCACCGCCTTCCGTAAGGGTAATTATTCGGAGCGGGTCGGCGCTGG  
TGCCCCGGTGTACCTGGCGGCTGTGCTAGAATATCTGACTGCTGAGATCCTGGAATTGGCTGGAATGCG  
GCCCGCACAATAAGAAGACGCGAATCATCCCGGCCACCTGCAGTTGGCCATCCGCAACGACGAGGAGC  
TCAACAAGCTGCTGGGCCGCGTGACCATCGCGCAGGGCGGCGTCTGCCAACATCCAGGCCGTGCTACT  
GCCAAGAAGACCGAGAGCCACCACAAGGCCAAGGGCAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200741 representing NM\_178218  
Red=Cloning site Green=Tags(s)

MSGRGKQGGKARAKAKSRSSRAGLQFPVGRVHRLLRKGNYSERVGAGAPVYLAAVLEYLTAEILELAGNA  
ARDNKKTRIIPRHLQLAIRNDEELNKLGRVTIAQGGVLPNIQAVLLPKKTESHKAKGK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_178218.4</a>
<b>RefSeq Size:</b>	1991 bp
<b>RefSeq ORF:</b>	393 bp
<b>Locus ID:</b>	319162
<b>UniProt ID:</b>	<a href="#">Q8BFU2</a>
<b>Cytogenetics:</b>	11 B1.3
<b>Gene Summary:</b>	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]