

## Product datasheet for **MG221869**

### Macroh2a1 (NM\_001159513) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Macroh2a1 (NM\_001159513) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Macroh2a1  
**Synonyms:** H2af; H2AF12; H2AF12M; H2afy; MACROH2; mH2a; mH2a1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG221869 representing NM\_001159513  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCGAGCCGCGGGGAAGAAGAAATCCACCAAGACCTCCCGGTCAGCCAAGGCCGGAGTCATCTTCC  
 CTGTGGGACGCATGCTTCGGTACATCAAGAAAGGCCACCCTAAGTATAGGATCGGAGTGGGGCACCTGT  
 GTACATGGCTGCTGTCTGGAGTACCTGACTGCTGAGATCCTGGAGCTGGCTGGCAATGCAGCAAGAGAC  
 AACAAGAAGGGACGGGTACACCCCGGCACATCCTGTTAGCTGTGGCCAATGATGAAGAGCTAAACCAGC  
 TGCTAAAGGGTGTCAACATAGCCAGCGGGGCGTGTGGCCAATATCCATCCTGAGTTGCTAGCGAAGAA  
 GCGAGGATCCAAGGAAAATTGGAAGCCATCATCACGCCCTCCGCCGGCCAAAAGGCCAAGTCTCCATCC  
 CAGAAGAAGCCAGTGGCTAAGAAGACAGGAGGCAAGAAAGGGGCCCGGAAGTCTAAGAAGCAGGGAGAAG  
 TGAGCAAGGCGCCAGCGCAGACAGTACGACGGGACGCCTACAGACGGCTTCACTGTCTCTCCAC  
 CAAGAGCCTCTTCTCGGCCAGAAGCTGAACCTTATTCACAGTGAATCAGTAATTTAGCCGGCTTTGAG  
 GTGGAGGCCATAATCAATCCTACCAATGCTGACATTGACCTTAAAGATGACCTAGGAAACACACTGGAGA  
 AGAAGGGCGGCAAGGAGTTTGTAGAAGCTGTTCTGGAACCTCCGAAAAAGAACGGGCCCTTGAGGTAGC  
 TGGAGCTGCTATTAGTGCAGGCCATGGCTGCCTGCCAAGTTTGTGATCCACTGTAATAGTCCTGTCTGG  
 GGTGCAGACAAAATGTGAAGAATTCTAGAAAAGACGGTGAAAACTGCTTGGCTCTAGCTGATGACAGAA  
 AGCTGAAATCCATCGCCTTCCCATCCATTGGCAGCGGCAGGAACGGGTTCCCGAAGCAGACAGCGGCCCA  
 GCTCATTCTGAAGGCCATCTCCAGCTACTTTGTCTCCACGATGTCTCTCCATCAAAAAGTGTACTTCT  
 ATGCTTTTTGACAGTGAGAGCATAGGTATCTATGTGCAGGAAATGGCCAAGCTGGACGCCAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG221869 representing NM\_001159513  
 Red=Cloning site Green=Tags(s)

MSSRGGKKKSTKTSRSKAGVIFPVGRMLRYIKKGHPKYRIGVGAPVYMAAVLEYLTAEILELAGNAARD  
 NKKGRVTPRHILLAVANDEELNQLLKGVTIASGGVLPNIHPELLAKKRGSKGLEAIIPTPPAKKAKSPS  
 QKKPVAKKTGGKKGARKSKKQGEVSKAASADSTTEGTPDGFVTLSTKSLFLGQKLNLIHSEISNLAGE  
 VEAIINPTNADIDLKDDLGNLTLEKKGKGFVEAVLELRKKNPLEVAGAAISAGHGLPAKFVIHCNSPVW  
 GADKCEELLEKTYKNCLALADDRKLSIAFPSIGSGRNGFPKQTAACLILKAISSYFVSTMSSSIKTVYF  
 MLFDSESIGIYVQEMAKLDAN

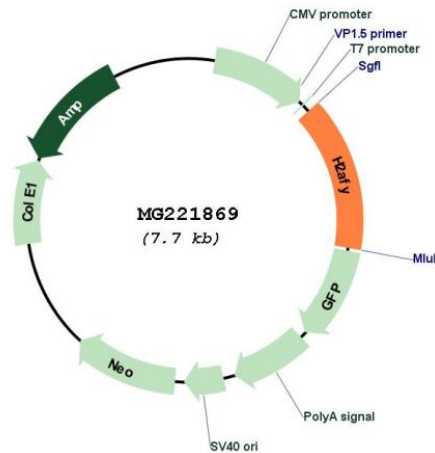
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001159513

<b>ORF Size:</b>	1113 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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_001159513.1</a> , <a href="#">NP_001152985.1</a>
<b>RefSeq Size:</b>	1975 bp
<b>RefSeq ORF:</b>	1116 bp
<b>Locus ID:</b>	26914
<b>UniProt ID:</b>	<a href="#">Q9QZQ8</a>
<b>Cytogenetics:</b>	13 B1
<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 encodes a replication-independent histone that is a member of the histone H2A family. It replaces conventional H2A histones in a subset of nucleosomes where it represses transcription and participates in stable X chromosome inactivation. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Nov 2015]