

Product datasheet for **MC209751**

Macroh2a1 (NM_001159514) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Macroh2a1 (NM_001159514) Mouse Untagged Clone
Tag: Tag Free
Symbol: Macroh2a1
Synonyms: H2af; H2AF12; H2AF12M; H2afy; MACROH2; mH2a; mH2a1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209751 representing NM_001159514
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTGCGAGCCGCGCGGGAAGAAGAAATCCACCAAGACCTCCCGTCCAGCAAGGCCGGAGTCATCTTCC
CTGTGGGACGCATGCTTCGGTACATCAAGAAAGGCCACCCTAAGTATAGGATCGGAGTGGGGCACCTGT
GTACATGGCTGCTGCTCCTGGAGTACCTGACTGCTGAGATCCTGGAGCTGGCTGGCAATGCAGCAAGAGAC
AACAAAGAAGGGACGGGTACACCCCGGCACATCCTGTTAGCTGTGGCCAATGATGAAGAGCTAAACCAGC
TGCTAAAGGGTGTCAACATAGCCAGCGGGGCGTGTTCGCGAATATCCATCCTGAGTTGCTAGCGAAGAA
GCGAGGATCCAAGGAAAATTGGAAGCCATCATCACGCCTCCGCGGCCAAAAAGGCCAAGTCTCCATCC
CAGAAGAAGCCAGTGGCTAAGAAGACAGGAGGCAAGAAAGGGGCCGGAAGTCTAAGAAGAAGCAGGGAG
AAGTGAGCAAGGCGCCAGCGCAGACAGTACGACGGAGGGCACGCCTACAGACGGCTTCACTGTCCTCTC
CACCAAGAGCCTTCTCCTCGGCCAGAAGTTGCAAGTTGTTTCAGGCTGACATTGCCTCGATCGACAGTGT
GCTGTCGTTACCCGACAAACTGACTTCTACACCGTGGTGAAGTAGGAAACACACTGGAGAAGAAGG
GCGGCAAGGAGTTTGTAGAAGTGTTCGGAACCTCCGAAAAAGAACGGGCCCTTGGAGGTAGCTGGAG
TGCTATTAGTGCAGGCCATGGCCTGCCTGCCAAGTTTGTGATCCACTGTAAATAGTCTGTCTGGGGTGCA
GACAAATGTGAAGAACTTCTAGAAAAGACGGTGAAAAACTGCTTGCTCTAGCTGATGACAGAAAGCTGA
AATCCATCGCCTTCCCATCCATTGGCAGCGGCAGGAACGGGTTCCGAAGCAGACAGCGCCAGCTCAT
TCTGAAGGCCATCTCCAGCTACTTTGTCTCCACGATGTCCTCCTCCATCAAAACTGTGTACTTTCATGCTT
TTTGACAGTGAGAGCATAGGTATCTATGTGCAGGAAATGGCCAAGCTGGACGCCAACTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001159514



Insert Size:	1110 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_001159514.1</u> , <u>NP_001152986.1</u>
RefSeq Size:	1969 bp
RefSeq ORF:	1110 bp
Locus ID:	26914
UniProt ID:	<u>Q9QZQ8</u>
Cytogenetics:	13 B1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) uses an alternate exon in the central coding region, compared to variant 1. The resulting isoform (3) differs in one internal segment, compared to isoform 1.</p>