

Product datasheet for MC218287

Macroh2a1 (NM_001159515) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Macroh2a1 (NM_001159515) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Macroh2a1
Synonyms:	H2af; H2AF12; H2AF12M; H2afy; MACROH2; mH2a; mH2a1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC218287 representing NM_001159515 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGTCGAGCCGCGCGGGAAGAAGAAATCCACCAAGACCTCCCGGTGAGCAAGGCCGAGTCACTTCC
 CTGTGGGACGCATGCTTCGGTACATCAAGAAAGGCCACCCTAAGTATAGGATCGGAGTGGGGCACCTGT
 GTACATGGCTGCTGCTGGAGTACCTGACTGCTGAGATCCTGGAGCTGGCTGGCAATGCAGCAAGAGAC
 AACAAGAAGGGACGGGTACACCCCGGCACATCCTGTTAGCTGTGGCCAATGATGAAGAGCTAAACCAGC
 TGCTAAAGGGTGTACCATAGCCAGCGGGGGCGTGTGCCGAATATCCATCCTGAGTTGCTAGCGAAGAA
 GCGAGGATCCAAGGGAATTTGAAGCCATCATCACGCCCTCCGCCGGCCAAAAGGCCAAGTCTCCATCC
 CAGAAGAAGCCAGTGGCTAAGAAGACAGGAGGCAAGAAAGGGGCCCGGAAGTCTAAGAAGCAGGGAGAAG
 TGAGCAAGGCGGCCAGCGCAGACAGTACGACGAGGGCACGCCTACAGACGGCTTCACTGTCTCTCCAC
 CAAGAGCCTCTTCTCGGCCAGAAGTTGCAAGTTGTTCAAGGTGACATTGCCTCGATCGACAGTGATGCT
 GTCGTTACCCGACAAACACTGACTTCTACACCGGTGGTGAAGTAGGAAACACTGGAGAAGAAGGGCG
 GCAAGGAGTTTGTAGAAGCTGTTCTGGAAGTCCGAAAAAGAACGGGCCCTTGGAGGTAGCTGGAGCTGC
 TATTAGTGACGGCCATGGCCTGCCTGCCAAGTTGTGATCCACTGTAATAGTCTGTCTGGGTGCAGAC
 AAATGTGAAGAACTTCTAGAAAAGACGGTGAAAACTGCTTGGCTCTAGCTGATGACAGAAAGCTGAAAT
 CCATCGCCTTCCCATCCATTGGCAGCGGCAGGAACGGGTTCCCGAAGCAGACAGCGGCCAGCTCATTCT
 GAAGGCCATCTCAGCTACTTTGTCTCCAGATGTCTCTCCATCAAACTGTGTACTTTCATGCTTTT
 GACAGTGAGAGCATAGGTATCTATGTGCAGGAAATGGCCAAGCTGGACGCCAACT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001159515
Insert Size:	1107 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001159515.1, NP_001152987.1</u>
RefSeq Size:	1966 bp
RefSeq ORF:	1107 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 (4) uses an alternate in-frame splice site and an alternate exon in the central coding region, compared to variant 1. The resulting isoform (4) lacks an internal residue and differs in an internal segment, compared to isoform 1.</p>