

Product datasheet for **SC124302**

MACROH2A1 (NM_138609) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MACROH2A1 (NM_138609) Human Untagged Clone
Tag:	Tag Free
Symbol:	MACROH2A1
Synonyms:	H2A.y; H2A/y; H2AF12M; H2AFY; MACROH2A1.1; macroH2A1.2; mH2A1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_138609, the custom clone sequence may differ by one or more nucleotides

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ATGTCGAGCCGCGGTGGGAAGAAGAAGTCCACCAAGACGTCCAGGTCTGCCAAAGCAGGAGTCATCTTTC
CCGTGGGGCGGATGCTGCGGTACATCAAGAAAGGCCACCCCAAGTACAGGATTGGAGTGGGGGCACCCGT
GTACATGGCCGCGTCTGGAATACCTGACAGCGGAGATTCTGGAGCTGGCTGGCAATGCAGCGAGAGAC
ACAAGAAGGGACGGGTACACCCCGGCACATCCTGCTGGCTGTGGCCAATGATGAAGAGCTGAATCAGC
TGCTAAAAGGAGTCACCATAGCCAGTGGGGGTGTGTTACCCAACATCCACCCGAGTTGCTAGCGAAGAA
GCGGGGATCCAAAGGAAAGTTGGAAGCCATCATCACACCACCCAGCCAAAAGGCCAAGTCTCCATCC
CAGAAGAAGCCTGTATCTAAAAAGCAGGAGGCAAGAAAGGGCCCGAAATCCAAGAAGAAGCAGGGTG
AAGTCAGTAAGGCAGCCAGCGCCGACAGCAACCCGAGGGCACACCTGCCGACGGCTTACAGTCCCTCTC
CACCAAGAGCCTCTTCTTGGCCAGAAGTTGCAAGTTGTACAGGCTGACATTGCCTCGATCGACAGTGAT
GCTGTCGTTACCCGACAAACACTGACTTCTACATCGGTGGTGAAGTAGGAAACACGCTGGAGAAGAAA
GTGGCAAGGAGTTTGTGGAAGCTGTCTGGAAGTCCGGAAGAAAGACGGGCCCTTGAAGTAGCTGGAGC
TGCTGTCAGCGCAGGCCATGGCTGCCTGCCAAGTTTGTGATCCACTGTAATAGTCCAGTTTGGGGTGCA
GACAAGTGTGAAGAACTTCTGAAAAGACAGTGAAAAGTCTTGGCCCTGGCTGATGATAAGAAGCTGA
AATCCATTGCATTTCCATCCATCGGCAGCGGCAGGAACGGTTTTCCAAAGCAGACAGCAGCTCAGCTGAT
TCTGAAGGCCATCTCAGTTACTTCGTGTCTACAATGTCTCTTCCATCAAACGGTGTACTTCGTGCTT
TTTGACAGCGAGAGTATAGGCATCTATGTGCAGGAAATGGCCAAGCTGGACGCCAACTAG
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_138609 unedited TGACAGAAATTTGTAATACGACTCACTATAGGGCGGCACGCGATTTCGGCACCATCGGCGC CGGGCGGAGGGGAGAGCGCGGGCCGCGGGCGGGAAGCGAATAGGCGGGCGGGCCATC GAGGAGCGCGGAGAGAAAAGGCGCGAGCGGCCAGGAGGGCTCATGCCGAGACACCTTGCA GCTGCCCGCCGCCACCGAGCCGCCGCTGTGCTCACTGATCCGCCTCCAGGGCCACCGC CATGTGCGAGCCGGTGGGAAGAATAAGTCCACCAAGCGTCCAGGTCTGCCAAAGCAGG AGTCATCTTTCCCGTGGGGCGGATGCTGCGGTACATCAAGAAAGGCCACCCCAAGTACAG GATTGGAGTGGGGCACCCGTGTACATGGCCCGCTCCTGGAATACCTGACAGCGGAGAT TCTGGAGCTGGCTGGCAATGCAGCGAGAGACAACAAGAAGGGACGGGTACACCCCGCA CATCCTGCTGGCTGTGGCAATGATGAAGAGCTGAATCAGCTGCTAAAAGGAGTACCAT AGCCAGTGGGGTGTGTTACCCAACATCCACCCGAGTTGCTAGCGAAGAAGCGGGGATC CAAAGGAAAGTTGGAAGCCATCATCACACCACCCAGCCAAAAAGGCCAAGTCTCCATC CCAGAAGAAGCCTGTATCTAAAAAGCATGAGGCAAGATAGGGGCCCGGAAATCCAAGAT GCATGGTGAAGTCAGTAATGCAGCCAGCGCCGACAGCACACCGATGGCACACCTGCCGA CGGCTTACAGTCTCTCCACCATAATCCTCTTNTTGGCCAGAAGCTGAACCTTATTCA CAGTGAATAATCAGTATTTATCCGGGCTCTGAGTGGAGGCCATATCATCCTNACATGCTG ACATTGACCTTAAGATGACCCTAGAACCCTGGAATAAAGTGGCAAGGAGTTGTGGATC TGC
Restriction Sites:	NotI-NotI
ACCN:	NM_138609
Insert Size:	2000 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:	NM_138609.1 , NP_613075.1
RefSeq Size:	1890 bp
RefSeq ORF:	1110 bp
Locus ID:	9555
UniProt ID:	O75367
Cytogenetics:	5q31.1
Protein Pathways:	Systemic lupus erythematosus

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 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, Oct 2015]

Transcript Variant: This variant (1) has multiple differences in the coding region, compared to variant 3. This results in a shorter protein (isoform 1) with a distinct segment in the middle of its coding region, compared to isoform 3.