

Product datasheet for SC113407

Macro H2A.2 (H2AFY2) (NM_018649) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Macro H2A.2 (H2AFY2) (NM_018649) Human Untagged Clone
Tag:	Tag Free
Symbol:	Macro H2A.2
Synonyms:	H2AFY2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113407 sequence for NM_018649 edited (data generated by NextGen Sequencing)

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ATGTCGGGCCGGAGTGGGAAGAAGAAAATGTCCAAGCTGTCCCGTTCAGCTAGGGCAGGT
GTCATCTTTCCAGTGGGAGGCTGATGCGTTATCTGAAGAAAGGGACGTTCAAGTACCGG
ATCAGCGTGGGCCCCCTGTCTACATGGCGGCAGTCATTGAGTACCTGGCAGCGGAAATT
CTAGAATTGGCCGCAATGCCGCGAGGGACAACAAGAAGGCCCGGATAGCCCCGAGACAC
ATCTTGCTGGCAGTTGCCAATGACGAGGAGCTCAACCAGCTGCTAAAAGGAGTGACCATC
GCCAGTGGAGGCGTCTGCCAGAATTCACCCGAACTGCTGGCCAAAAGCGAGGGACC
AAAGGCAAGTCGGAACGATCCTCTCCCCACCCAGAGAAAAGAGGCAGGAAGGCCACG
TCAGGCAAGAAGGGGGGAAGAAATCCAAGGCTGCCAAACCACGGACGTCCAAAAGTCC
AAACAAAGGACAGCGATAAAGAAGGAACCTCAAATCCACCTCTGAAGATGGGCCAGGG
GATGGATTCAACATTCTGTCTTCTAAGAGCCTTGTCTGGGACAGAAGCTGTCTTAACC
CAGAGTGACATCAGCCATATTGGCTCCATGAGAGTGGAGGGCATTGTCCACCAACCACA
GCCGAAATTGACCTCAAAGAAGATATAGGTAAAGCCTTGGAAGGCTGGGGGAAAAGAG
TTCTTGGAACCGTAAAGGAGCTTCGAAATCCCAAGGCCCTTTGGAAGTCGCCGAAAGCC
GCCGTCAGCCAATCCAGTGGACTCGCAGCAAATTTGTCATCCACTGTCACATCCCTCAG
TGGGGCTCCGACAAATGTGAAGAACAGCTTGAAGAGACCATCAAAAAGTGCCTGTCAGCG
GCGGAGGACAAGAAGCTAAAGTCCGTCGCTTCCCGCCTTTCCCAGCGGCAGAAAAGTGC
TTTCCAAACAGACTGCGGCCAGGTGACCCCAAAGCCATCTCAGCCCACCTTTGATGAC
TCGAGCGCTCCTCGCTGAAGAACGTGTACTTCTGCTCTTCGACAGCGAGAGCATCGGC
ATCTACGTGCAGGAGATGGCCAAGCTCGACGCCAAGTAG

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Clone variation with respect to NM_018649.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018649 unedited
 CATT TTTGTAATACGACTCACTATTAGGGCGGCCGGAATTTCGCACGAGGGCTTGCCGCCA
 TTGACACGCACAGATAGAACCCAAAGAAAGGCAAAGAGTCCTGCCCGGCACCGGCCCGC
 GTGGGCCAAACCTGCGCCCGTGGAGGGGCGCGCAGAGGGCACCGGGCGCCGGGAGCAGGC
 GGCGCAGCACCAGCATTGTGTTAGTGCCGGGAGGCCACTGTGTCAGCAAGCTGAGAGGGA
 AACTGAAGCAAGATGTCGGGCCGGAGTGGGAAGAAGAAAATGTCCAAGCTGTCCC GTTCA
 GCTAGGGCAGGTGCATCTTTCCAGTGGGAGGCTGATGCGTTATCTGAAGAAAGGGACG
 TTCAAGTACCGGATCAGCGTGGGCGCCCTGTCTACATGGCGGCAGTCATTGAGTACCTG
 GCAGCGAAATTCTAGAATTGGCCGCAATGCCCGAGGGACAACAAGAAGGCCCGGATA
 GCCCCGAGACACATCTTGCTGGCAGTTGCCAATGACGAGGAGCTCAACCAGCTGTAAAA
 GGAGTGACCATCGCCAGTGGAGGCTCCTGCCAGAATTCACCCGAACTGCTGGCCAAA
 AAGCGAGGGACCAAAGGCAAGTCGGAACGATCCTCTCCCAACCCAGAGAAAAGAGGC
 AGGAAGGCCACGTCAGGCAAGAAGGGGGGAAGAAATCCAAGGCTGCCAAACCACGGACG
 TCCAAAAAGTCCAAACCAAAGGACAGCGATAAAGAAGGAACTTCAAATTCACCTCTGAA
 GATGGGCCAGGGATGGNATCACCATTCTGTCTTCTAAGAGCTTGTCTGGGACAGAAGC
 TGTCTTACCCAGAGTGACATCAGCCATATGGNCTNCATGAGAGTGGNAGGGCATTGTNC
 ACCCAACCACAGCCGAAATGACCTCCAAGAAGATATAAGTAAGCCTTGGAAAGGCTGNG
 GGAAAAGAGTCTTGAACG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018649 unedited
 GCAATCTAGAGTCGAGTCCNCCCCTTTCTTTCTCTTTTTTTTTTTTTTTTTTTTTCTTTTCTT
 CCCCTTTTTTTTTTTTTTCTTAAAAAACACCGGATCTTTTATTCTTTTCTTTTCAATTT
 TCTTTTCTAAAAAACAAAATGAAAAAAAAAAAAACGCCTGAATCAAAACCTTTT TAGGA
 GTATTTACAGATTTTTAGGGATGGGGGCGGGGGCACTAAAACAAAAAAAAAAACCCCC
 AGGGAAATGTTTTCCATTTTTTTTTTTTTCCCCCGGGAACACCCCAACAAACCC
 AGGCCCTTTTTGCCCTTTCCCTTGGAAAAAGGGGGAACAAAAATTTAAAAATTTTGA
 AAGGATTTTTTTCTTGGGGAAAGGGGGAAAAAGCAACTGCTATAAATCTAAACCGAGGT
 CTGTTTTTTTAAAAAGTTCTAAACCACCGGGGGAAACCCCTGGAAAAAACCCCTTG
 GGGAAACCTGTTTTTTATAAATGGAGGTTTTTTGAAGAAAAGTGGAAAGGGAAAGGT
 CTCCTTGCCTCGGAAGAACTGCCGGGACACCTTCACTCCCTGGCAATAACCCCTTCTT
 TTTTTTTTTTAAAAACAAAACCCCTTTTTTGGAACTCCGGGCCCTTCCCAACCCCTTGC
 TAAAAAGGGGGGGCTTCTTTCGGCCGAAAACCTTGCCCTCTCCCTCGCCGAAAATGT
 CCAAGCTTTCCCTTGTATAAAAAAGAAAGAAATCACACGTTTTCTTAGCAGGGACCCCGCT
 CAAATAATTTAAAGGGCTTAAATGGCTTTTAGGGTCACCCTGGCCATATTTTGTGTTG
 AGAAAACCATTTCTCTTGTGGAAAGGCGAAACCGCACAGATTTTATTTTTTGCCTC
 CCCGTACAAGAGATTTTAGAGTTCTCTTAACGTTTTCTACAATTGGCGGACCCCTT
 GGGGAGGGAACAGGTGAACACATTGCTTCAAACACCGTTTTGG

Restriction Sites:

NotI-NotI

ACCN:

NM_018649

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_018649.1 , NP_061119.1
RefSeq Size:	1932 bp
RefSeq ORF:	1119 bp
Locus ID:	55506
UniProt ID:	Q9P0M6
Cytogenetics:	10q22.1
Domains:	H2A, A1pp, histone
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 may participate in stable X chromosome inactivation. [provided by RefSeq, Oct 2015]