

Product datasheet for RC203699

Macro H2A.2 (H2AFY2) (NM_018649) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Macro H2A.2 (H2AFY2) (NM_018649) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Macro H2A.2
Synonyms:	H2AFY2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203699 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGGCGGAGTGGGAAGAAGAAAATGTCCAAGCTGTCCCGTTCAGCTAGGGCAGGTGTCATCTTTC
CAGTGGGGAGGCTGATGCGTTATCTGAAGAAAGGGACGTTCAAGTACCGGATCAGCGTGGGCGCCCTGT
CTACATGGCGGCAGTCATTGAGTACCTGGCAGCGGAAATCTAGAATTGGCCGCAATGCCGCGAGGGAC
AACAGAAGGCCCGGATAGCCCCGAGACACATCTTGTGGCAGTTGCCAATGACGAGGAGCTCAACCAGC
TGCTAAAAGGAGTGACCATCGCCAGTGGAGGCGTCTGCCAGAATTCACCCGAAGTCTGGCCAAAAA
GCGAGGGACCAAAGGCAAGTCGGAACGATCCTCTCCCCACCCAGAGAAAAGAGGCAGGAAGGCCACG
TCAGGCAAGAAGGGGGGAAGAAATCCAAGGCTGCCAAACCACGACGTCAAAAAGTCCAAACCAAGG
ACAGCGATAAAGAAGGAACCTCAAATTCACCTCTGAAGATGGGCCAGGGGATGGATTACCATTCTGTC
TTCTAAGAGCCTTGTCTGGGACAGAAGCTGTCTTAACCCAGAGTGACATCAGCCATATTGGCTCCATG
AGAGTGGAGGGCATTGTCCACCAACCACAGCCGAAATGACCTCAAAGAAGATATAGGTAAGCCCTTGG
AAAAGGCTGGGGAAAAGAGTCTTGGAAACGGTAAAGGAGCTTCGCAATCCCAAGGCCCTTTGGAAGT
CGCCGAAGCCCGCTCAGCCAATCCAGTGGACTCGCAGCCAAATTTGTCATCCACTGTACATCCCTCAG
TGGGGCTCCGACAAATGTGAAGAACAGCTTGAAGAGACCATCAAAAAGTCCGTCAGCGCGGAGGACA
AGAAGCTAAAGTCCGTCGCTTCCCGCCTTTCCCGAGCGCAGAAAAGTCTTTCCCAACAGACTGCGGC
CCAGGTGACCCTCAAAGCCATCTCAGCCCACTTTGATGACTCGAGCGCGTCTCGCTGAAGAACGTGTAC
TTCTGCTCTTCGACAGCGAGAGCATCGGCATCTACGTGCAGGAGATGGCCAAGCTCGACGCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Reconstitution Method:

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_018649.3](#)

RefSeq Size: 2181 bp

RefSeq ORF: 1119 bp

Locus ID: 55506

UniProt ID: [Q9P0M6](#)

Cytogenetics: 10q22.1

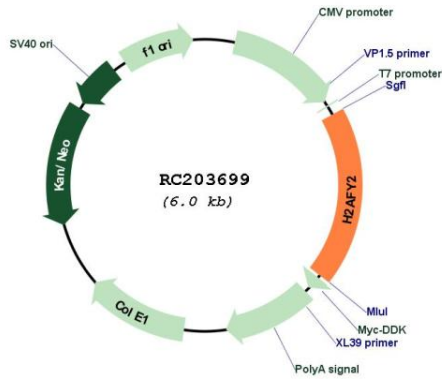
Domains: H2A, A1pp, histone

Protein Pathways: Systemic lupus erythematosus

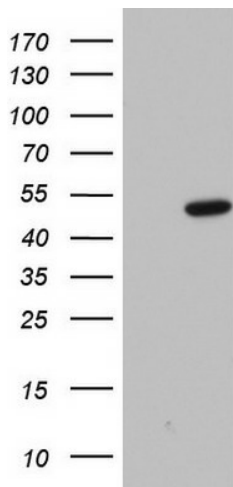
MW: 40.1 kDa

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]

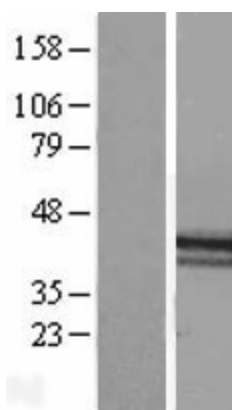
Product images:



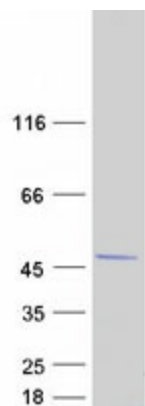
Circular map for RC203699



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY H2AFY2 (Cat# RC203699, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-H2AFY2(Cat# [TA803386]). Positive lysates [LY412957] (100ug) and [LC412957] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY412957]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203699 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified H2AFY2 protein (Cat# [TP303699]). The protein was produced from HEK293T cells transfected with H2AFY2 cDNA clone (Cat# RC203699) using MegaTran 2.0 (Cat# [TT210002]).