

## Product datasheet for **SC308030**

### H2AZ2 (NM\_201436) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	H2AZ2 (NM_201436) Human Untagged Clone
Tag:	Tag Free
Symbol:	H2AZ2
Synonyms:	H2A.Z-2; H2AFV; H2AV
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_201436, the custom clone sequence may differ by one or more nucleotides ATGTTTCCTGTGGGCCGCATCCACAGACACTTGAAGACTCGCACCAAGCCATGGAAGG GTGGGTGCCACTGCTGCCGTGTACAGTGCTGCGATTCTGGAGTACCTCACTGCAGAGGTG CTGGAGCTGGCAGGTAATGCTTCTAAGGATCTCAAAGTAAAGCGTATCACTCCGCGTCAC TTGCAGCTTGCAATCCGTGGTGATGAAGAGTTGGATTCTTATCAAGGCTACCATAGCT GGGGGTGGTGTGATCCCTCACATCCACAAATCTCTGATTGGAAAGAAGGGACAGCAGAAA ACTGCTTAG
Restriction Sites:	Please inquire
ACCN:	NM_201436
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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).



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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\\_201436.1](#), [NP\\_958844.1](#)

**RefSeq Size:** 1075 bp

**RefSeq ORF:** 309 bp

**Locus ID:** 94239

**UniProt ID:** [Q71UI9](#)

**Cytogenetics:** 7p13

**Protein Families:** Druggable Genome

**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. Several transcript variants encoding different isoforms, have been identified for this gene. [provided by RefSeq, Oct 2015]  
Transcript Variant: This variant (3) lacks an internal exon in the coding region, compared to variant 1. This results in a shorter protein (isoform 3) compared to isoform 1.