

## Product datasheet for SC306990

### H2AC21 (NM\_175065) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	H2AC21 (NM_175065) Human Untagged Clone
Tag:	Tag Free
Symbol:	H2AC21
Synonyms:	H2AB; HIST2H2AB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC306990 representing NM_175065. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCAGGACGCGAAAGCAGGGAGGCAAGGCCCGCGCTAAGGCCAAGTCGCGCTCGTCCCGCGCTGGT
CTCCAGTTCGCGGTGGGGCGAGTGCACCGCTTGTGCGCAAAGGCCAACTACGCGGAGCGGGTCGGGGCA
GGCGCCCCGGTGTACCTGGCGCGGTCTCGAGTACCTGACCGCGGAAATTCGGAGCTGGCGGGCAAC
GCGGCTCGGGACAACAAGAAGACGCGCATCATCCCTCGCCATCTGCAACTAGCCGTGAGGAATGACGAA
GAGCTCAACAAGTTACTCGGGGTGTACCATTGCCAGGGCGGCGTCTTGCCCAATATCCAGGCTGTC
CTGTTGCCAAGAAAACGGAGAGTCACAAGCCTGGCAAGAACAAGTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

Restriction Sites: SgfI-MluI

Plasmid Map:

ACCN: NM\_175065

Insert Size: 393 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).



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<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_175065.2</a>
<b>RefSeq Size:</b>	448 bp
<b>RefSeq ORF:</b>	393 bp
<b>Locus ID:</b>	317772
<b>UniProt ID:</b>	<a href="#">Q8IUE6</a>
<b>Cytogenetics:</b>	1q21.2
<b>Protein Pathways:</b>	Systemic lupus erythematosus
<b>MW:</b>	14 kDa
<b>Gene Summary:</b>	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 is intronless and encodes a replication-dependent histone that is a member of the histone H2A family. Transcripts from this gene contain a palindromic termination element. [provided by RefSeq, Aug 2015]