

## Product datasheet for **MR215837**

### H2ac21 (NM\_178213) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** H2ac21 (NM\_178213) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** H2ac21  
**Synonyms:** EG621893; H2a-61; H2a-613a; Hist2h; Hist2h2ab  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR215837 representing NM\_178213  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGGCCGTGGCAAACAAGGAGGCAAGGCCCGCGCCAAGGCGAAGTCGCGGTCGTCCCGCGCCGGC  
TGCAGTTCGCGGTGGGGCGTGTGCACCGGCTGCTGCGCAAGGGCAACTACGCGGAGCGGTGGGCGCCGG  
CGCGCCGTGTACATGGCGGCGGTGCTGGAGTACCTAACGCGGAGATCCTGGAGCTGGCGGCAACGCG  
GCCCGGACAACAAGAAGACGCGCATCATCCCGGCCATCTGCAACTAGCTGTGAGGAACGATGAGGAGC  
TCAACAAGTTACTAGGGGAGTACCATCGCCAGGGCGGGTCTCCCAATATTCAGGCTGTCTTACT  
TCCGAAGAAAACGAAAGTCATAAGCCTGAAAGAACAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR215837 representing NM\_178213  
Red=Cloning site Green=Tags(s)

MSGRGKQGKARAKAKSRSSRAGLQFPVGRVHRLLRKGNYAERVGAGAPVYMAAVLEYLTAEILELAGNA  
ARDNKKTRIIPRHLQLAVRNDEELNKLGGVTIAQGGVLPNIQAVLLPKKTESHKPGKNK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9055\\_h04.zip](https://cdn.origene.com/chromatograms/mm9055_h04.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_178213

**ORF Size:** 390 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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\\_178213.5](#)

**RefSeq Size:** 438 bp

**RefSeq ORF:** 393 bp

**Locus ID:** 621893

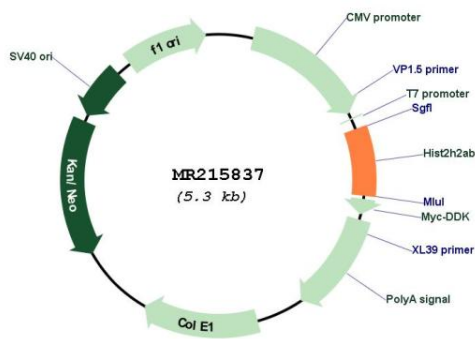
**UniProt ID:** [Q64522](#)

**Cytogenetics:** 3 F2.1

**MW:** 14 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 is intronless and encodes a replication-dependent histone that is a member of the histone H2A family. [provided by RefSeq, Aug 2015]

**Product images:**



Circular map for MR215837