

## Product datasheet for **MC219653**

### **Kat7 (NM\_001195003) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kat7 (NM_001195003) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kat7
Synonyms:	Hbo1; Hboa; Myst2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC219653 representing NM\_001195003  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCCGAAGGAAGAGAAATGCAGGCAGTAGTTCAGATGGAACCGAAGATTCCGATTTTTCTACAGATC  
 TCGAGCATACAGACAGTTCAGAGAGTGATGGCACCTCGCCGATCTGCCGAGTCACCCGCTCCTCAGC  
 CAGGCTAAGCCAGAGTTCCTCAAGATTCCAGCCCTGTTTCAAATTTGCCGCTTTTCGGCACTGAGGAGCCT  
 GCCTATTCTACCAGAAGGGTGACCCGTAGTCAGCAGCAGCCACGCCAGTGACTCCTCAAAAAAGTACCCTC  
 TTCGACAGACTCGCTCATCTGGCTCTGAAACGGAGCAGGTGGTGGACTTTTCAGATAGAGAACTAAAAA  
 TACAGCTGATCATGATGAGTCACCACCTCGAATCCAACCGAAATGCACCTTCTCTGAGTCTGACATA  
 GACATCTCCAGCCCCACGTGTCTCATGATGAGAGCATTGCCAAGGACATGTCCCTGAAGGACTCAGGCA  
 GTGATCTCTCACCGTCCAAGCGACGTGATTTACGAAAGCTACAATTTCAACATGAAGTGTCTAC  
 GCCGGGCTGCAACTCTTAGGACATCTACAGGAAAGCAGAGAGACATTTCTCCATCTCAGGATGCCCCG  
 CTGTATACATAACCTCTCAGCTGACGAATGCAAGGTGAGAGCACAGAGCCGGGATAAGCAGATAGAAGAAA  
 GGATGCTGTCCCACAGGCAAGATGACAACAACAGGCATGCAACCAGGCACCAGGCACCAACAGAGAGACA  
 GCTGCGGTATAAGGAAAAGGTGGCTGAACTCAGGAAAGAAAAGAAATCTGGACTGAGCAAAGAGCAGAAG  
 GAGAAATACATGGAACACAGACAGACCTATGGGAACACTCGGGAGCCTCTCTTGGAAAACCTGACAAAGT  
 AATATGACTTAGATCTTTTCCGAAGAGCACAAGCCCGGGCTTCTGAGGATTTGGAGAAGTTAAGGCTTCA  
 AGGCCAAATCACAGAGGGAAGCAACATGATTAACAATTGCTTTTGGCCGCTATGAACTGGACACTTGG  
 TACCCTCTCCCTATCCTGAGGAATATGCGAGGCTGGGACGTCTACATGTGTGAATTCGCTTAAAGT  
 ACATGAAGAGCCAGACAATCCTCCGCCGACACATGGCCAAGTGTGTGGAAACACCCCTGATGATGA  
 GATTTATCGCAAAGGCTCCATCTCTGTGTTTGAAGTAGACGGCAAGAAGAACAAGATCTACTGCCAAAAC  
 CTCTGCCTTTTGGCAAAGCTTTTCTGGACCATAAGACGCTATACTATGATGTAGAACCTTTCTGTTCT  
 ACGTTATGACAGAAGCGGACAATACTGGCTGTCATCTGATTGGATATTTTTCTAAGGAGAAGAATTCATT  
 TCTCAACTATAATGTCTCGTGCATCCTCACCATGCCTCAGTACATGCGACAGGGCTACGGGAAGATGCTG  
 ATCGATTTTCAGTTATTTACTTTCCAAAGTAGAAGAGAAAGTGGCTCTCCAGAGCGCCACTGTCAGACC  
 TGGGGCTCATAAGCTACCGCAGCTACTGGAAGGAGGACTGCTCCGATACCTGCACAACCTCCAGGGCAA  
 GGAGATCTCCATCAAAGAAATTAGCCAGGAAACAGCTGTGAATCCCGTGGACATTGTCAGCACTCTGCAA  
 GCCCTTCAGATGCTCAAGTATTGAAAGGCAAGCACCTAGTTTTAAAGAGACAGGACCTGATAGATGAGT  
 GGATAGCCAAAGAGGCCAAAAGTCCAACCTCAACAAAACCATGGATCCAAGCTGCTTAAATGGACCCC  
 TCCAAGGGCACT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001195003
- Insert Size:** 1836 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:**

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\\_001195003.1](#), [NP\\_001181932.1](#)

**RefSeq Size:** 5966 bp

**RefSeq ORF:** 1836 bp

**Locus ID:** 217127

**Cytogenetics:** 11 D

**Gene Summary:** Component of the HBO1 complex which has a histone H4-specific acetyltransferase activity, a reduced activity toward histone H3 and is responsible for the bulk of histone H4 acetylation in vivo. Involved in H3K14 (histone H3 lysine 14) acetylation and cell proliferation (PubMed:23319590). Through chromatin acetylation it may regulate DNA replication and act as a coactivator of TP53-dependent transcription. Acts as a coactivator of the licensing factor CDT1. Specifically represses AR-mediated transcription.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.