

## Product datasheet for **SC115703**

### **KAT7 (NM\_007067) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KAT7 (NM_007067) Human Untagged Clone
Tag:	Tag Free
Symbol:	KAT7
Synonyms:	HBO1; HBOA; MYST2; ZC2HC7
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115703 sequence for NM\_007067 edited (data generated by NextGen Sequencing)

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ATGCCGCGAAGGAAGAGGAATGCAGGCAGTAGTTCAGATGGAACCGAAGATTCCGATTTT
TCTACAGATCTCGAGCACACAGACAGTTTCAGAAAGTGATGGCACATCCCGACGATCTGCT
CGAGTCACCCGCTCCTCAGCCAGGCTAAGCCAGAGTTCTCAAGATTCCAGTCCTGTTTGA
AATCTGCAGTCTTTTGGCACTGAGGAGCCTGCTTACTCTACCAGAAGAGTGACCCGTAGT
CAGCAGCAGCCTACCCAGTGACACCGAAAAAATACCCTCTTCGGCAGACTCGTTCATCT
GGTTCAGAAACTGAGCAAGTGGTTGATTTTTTCAGATAGAGAAACTAAAAATACAGCTGAT
CATGATGAGTCAACCGCTCGAACTCCAAGTGGAAATGCGCCTTCTTCTGAGTCTGACATA
GACATCTCCAGCCCAATGTATCTCACGATGAGAGCATTGCCAAGGACATGTCCCTGAAG
GACTCAGGCAGTGATCTCTCATCGCCCCAAGCGCCGTCGTTCCATGAAAGCTACAAC
TTCAATATGAAGTGTCTACACCAGGCTGTAACCTCTTAGGACACCTTACAGGAAAAAT
GAGAGACATTTTCCATCTCAGGATGCCACTGTATCATAACCTCTCAGCTGACGAATGC
AAGGTGAGAGCACAGAGCCGGGATAAGCAGATAGAAGAAAGGATGCTGTCTCACAGGCAA
GATGACAACAACAGGCATGCAACCAGGCACCAGGCACCAACGGAGAGGCAGCTTCGATAT
AAGGAAAAAGTGGCTGAACTCAGGAAGAAAAGAAATTCTGGACTGAGCAAGAACAGAAA
GAGAAATATATGGAACACAGACAGACCTATGGGAACACACGGGAACCTCTTTTAGAAAA
CTGACAAGCGAGTATGACTTGGATCTTTTCCGAAGAGCACAAAGCCGGGCTTCAGAGGAT
TTGGAGAAGTTAAGGCTGCAAGGCCAAATCACAGAGGGAAGCAACATGATTAACAATT
GCTTTTGGCCGCTATGAGCTTGATACCTGGTATCATTCTCCATATCCTGAAGAATATGCA
CGGCTGGGACGTCTCTATATGTGTGAATTCTGTTAAAAATATATGAAGAGCCAAACGATA
CTCCCGCCGCACATGGCCAAATGTGTGTGGAACACCCACCTGGTGATGAGATATATCGC
AAAGTTCAATCTCTGTGTTTGAAGTGGATGGCAAGAAAAACAAGATCTACTGCCAAAAC
CTGTGCCTGTTGGCCAAACTTTTTCTGGACCACAAGACATTATATTATGATGTGGAGCCC
TTCCTGTTCTATGTTATGACAGAGGCGGACAACACTGGCTGTCACCTGATTGGATATTTT
TCTAAGGAAAAGAATTCATTCTCAACTACAACGTCTCCTGTATCCTTACTATGCCTCAG
TACATGAGACAGGGCTATGGCAAGATGCTTATTGATTTTCAAGTATTTGCTTTCAAAGTC
GAAGAAAAAGTTGGTCCCCAGAACGTCCACTCTCAGATCTGGGGCTTATAAGCTATCGC
AGTTACTGAAAGAAGTACTTCTCCGCTACCTGCATAATTTTCAAGGCAAAGAGATTTCT
ATCAAAGAAATCAGTCAGGAGACGGCTGTGAATCCTGTGGACATTGTGAGCACTCTGCAA
GCCCTTCAGATGCTCAAATACTGGAAGGAAAAACCTAGTTTTTAAAGAGACAGGACCTG
ATTGATGAGTGGATAGCCAAAGAGGCCAAAAGGTCCAACCTCCAATAAAACCATGGATCCC
AGCTGCTTAAAATGGACCCTCCAAGGGCACTTAA
```

Clone variation with respect to NM\_007067.4

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_007067 unedited  
 TTTGTATACGACTCATATAGGCGGCNCGCGATTTCGGCACGAGGGTTCCTGCTGCTGCCGC  
 CGCTGCCCGAATCGGAACCGTCGGGCCGAGCCGCGCAATGCCGGAAGGAAGAGGAA  
 TGCAGGCAGTAGTTCAGATGGAACCGAAGATCCGATTTTTCTACAGATCTCGAGCACAC  
 AGACAGTTCAGAAAGTATGGACATCCCGACGATCTGCTCGAGTCACCCGCTCCTCAGC  
 CAGGCTAAGCCAGAGTTCTCAAGATTCCAGTCTGTTCGAAATCTGCAGTCTTTTGGCAC  
 TGAGGAGCTGCTTACTCTACCAGAAGAGTGACCCGTAGTCAGCAGCAGCCTACCCAGT  
 GACACCGAAAAAATACCCTCTTCGGCAGACTCGTTCATCTGGTTCAGAAACTGAGCAAGT  
 GGTGATTTTTTCAGATAGAGAACTAAAAATACAGCTGATCATGATGAGTCACCCGCTCG  
 AACTCCAAGTGGAAATGCGCCTTCTTCTGAGTCTGACATAGACATCTCCAGCCCCAATGT  
 ATCTCACGATGAGAGCATTGCCAAGGACATGTCCCTGAAGGACTCAGGCAGTGTCTCTC  
 TCATCGCCCCAAGCGCCGTCGTTCCATGAAAGCTACAACCTCAATATGAAGTGTCTAC  
 ACCAGGCTGTAAGTCTCTAGGACACCTTACAGGAAAACATGAGAGACATTTCTCCATCTC  
 AGGATGCCCACTGTATCATAACCTCTCAGCTGACGAATGGCANGGTGAGAGCACAGAGCC  
 GGGATAAGCAGATAGAAGAAAGGATGCTGTCTCACAGGCAGAATGACAACACAGGCATGG  
 CACNACGACACCAGCACCGNAGAGGAGCTTCGTATAGGGAAAAAGTGGNCTGACTC  
 AGAGAAAAGAATTCTGGACTGAGCAAGACAGAAGAGATATATGAAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_007067 unedited  
 GAGTCGAGTTTTTTTTTTTTTTTTTTTGGAGCAGAGACATGCTTTATTGAGGAGTAGATATA  
 GAAGAGCACATTCTACCACATGTGGGGAAGGGTTTAGCTTCTGTAAAAGGCTTTATCCC  
 TTAAGAAAACCCCTAGTGAAGTTGCTTTTTGATAAATTTAACAGTGACACTGAAACTGG  
 AGGGGAGCTGCCACTGAACATGCTTAAAATTAGCTCCCCCAACCCACAGTGAATATAAGT  
 AGTGTACAGAGATGACAAGAGAAAGGCACAAATGACCCGGAGTCAGGGATTGTGGTGAGGG  
 CTCCACATGAAGACAGCATGTTGGAGGAGACCAAGTTGGGAAGGGTGACATGTCATACAT  
 CAAAAGTTGCCCAAGATAGCAGGTTAATGGGCTAGAGAGAAATTAGAGGGAACATCT  
 CTTCTTCACTTGAACAACACCAAAAAATAGAAGACCAGAGAATAGAAGGATGGTGACAAA  
 TCCCAAAAAGGAAATGGAGGAGGAGTTCGTGGAAGGGCAGAAGCACTTTAATCCTANAGG  
 GANGGTGAGGCACTGTTGAAAAGAAGAGCANACTTTGGCAGNGTGGCCATTCTGCCTTG  
 CTGAGTCATGGGCTGAGATCGGAAGTCACTTTCATCATTTTTCTACTTCTCCAGGGCACT  
 AGACAAATCAGTGATGGTATATGGAAGTACAGATGTACTGTATCAGACTAGTGGNAGTGA  
 AAAGGTTNCTGCAGTATATTAACCAATTATATGCAGCATGAAAGGGAAAGTGGACATTAC  
 TTTTGCACCTGCAACGTA AAAAGTGGGATAANGAGAGAAGGAATATTACTAGTGAGTCTT  
 TACNGTGAGCAAAAAGTGTATTCGTTCTTTTACNAAACTGCCCTGNCAGTGNACAAA  
 GTGACTCAATAAACCAGAACCACACCCCTTCATCTTTCTNCATTTCATCAGACAATATTGCT  
 ATACATGACAGCCCTGGGACTCTCAAGATTNGCCTTGTAGCCAACGATCAAAAAGTCT  
 CTATCAATGAAAAAAGCAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_007067

**Insert Size:**

3600 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).

<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_007067.3</a> , <a href="#">NP_008998.1</a>
<b>RefSeq Size:</b>	3600 bp
<b>RefSeq ORF:</b>	1836 bp
<b>Locus ID:</b>	11143
<b>UniProt ID:</b>	<a href="#">O95251</a>
<b>Cytogenetics:</b>	17q21.33
<b>Domains:</b>	zf-C2HC, MOZ_SAS, zf-C2H2
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
<b>Gene Summary:</b>	<p>The protein encoded by this gene is part of the multimeric HBO1 complex, which possesses histone H4-specific acetyltransferase activity. This activity is required for functional replication origins and is involved in transcriptional activation of some genes. In both cases, the acetylation of histone H4 helps unfold chromatin so that the DNA can be accessed and replicated or transcribed. [provided by RefSeq, Oct 2016]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>