

## Product datasheet for SC331251

### KAT7 (NM\_001199158) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KAT7 (NM_001199158) Human Untagged Clone
Tag:	Tag Free
Symbol:	KAT7
Synonyms:	HBO1; HBOA; MYST2; ZC2HC7
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC331251 representing NM_001199158. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGCCGGAAGGAAGAGGAATGCAGGCAGTAGTTCAGATGGAACCGAAGATTCGGATTTTTCTACAGAT
CTCGAGCACACAGACAGTTCAGAAAGTGATGGCACATCCCAGCATCTGCTCGAGTCACCCGCTCCTCA
GCCAGGCTAAGCCAGAGTTCTCAAGGACACCTTACAGGAAAACATGAGAGACATTTCTCCATCTCAGGA
TGCCCACTGTATCATAACCTCTCAGCTGACGAATGCAAGGCACCAACGGAGAGGCAGCTTCGATATAAG
GAAAAAGTGGCTGAACCTCAGGAAGAAAAGAAATCTGGACTGAGCAAAGAACAGAAAGAGAAATATATG
GAACACAGACAGACCTATGGGAACACACGGGAACCTCTTTAGAAAACCTGACAAGCGAGTATGACTTG
GATCTTTTCCGAAGAGCAAGCCCGGGCTTCAGAGGATTTGGAGAAGTTAAGGCTGCAAGGCCAAATC
ACAGAGGGAAGCAACATGATTAACAATTGCTTTTGGCCGCTATGAGCTTGATACCTGGTATCATTCT
CCATATCTGAAGAATATGCACGGCTGGGACGCTCTATATGTGTGAATTCTGTTAAAAATATATGAAG
AGCCAAACGATACTCCGCCGGCACATGGCCAAATGTGTGTGGAACACCCACCTGGTGATGAGATATAT
CGCAAAGGTTCAATCTCTGTGTTGAAGTGGATGGCAAGAAAAACAAGATCTACTGCCAAAACCTGTGC
CTGTTGGCCAACTTTTCTGGACCACAAGACATTATATTATGATGTGGAGCCCTCCTGTTCTATGTT
ATGACAGAGGCGGACAACACTGGCTGTCACCTGATTGGATTTTTCTAAGGAAAAGAATTCATTCCTC
AACTACAACGTCTCCTGTATCCTTACTATGCCTCAGTACATGAGACAGGGCTATGGCAAGATGCTTATT
GATTTTCAGTTATTTGCTTTCCAAAGTCGAAGAAAAGTTGGCTCCCCAGAACGTCCACTCTCAGATCTG
GGGCTTATAAGCTATCGCAGTTACTGGAAGAAGTACTTCTCCGCTACCTGCATAATTTTCAAGGCAAA
GAGATTTCTATCAAAGAAATCAGTCAAGGAGACGGCTGTGAATCCTGTGGACATTGTGAGCACTCTGCAA
GCCCTTCAGATGCTCAAACTACTGGAAGGAAAACACCTAGTTTTAAAGAGACAGGACCTGATTGATGAG
TGGATAGCCAAAGAGGCCAAAAGGTCCAACCTCCAATAAAACCATGGATCCCAGCTGCTTAAATGGACC
CTCCCAAGGGCACTTAA
  
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Restriction Sites:	SgfI-MluI
ACCN:	NM_001199158
Insert Size:	1329 bp



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<b>OTI Disclaimer:</b>	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).
<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_001199158.1</a>
<b>RefSeq Size:</b>	3157 bp
<b>RefSeq ORF:</b>	1329 bp
<b>Locus ID:</b>	11143
<b>UniProt ID:</b>	<a href="#">O95251</a>
<b>Cytogenetics:</b>	17q21.33
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
<b>MW:</b>	51.4 kDa
<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 (5) lacks three alternate in-frame exons compared to variant 1. The resulting isoform (5) has the same N- and C-termini but is shorter compared to isoform 1.</p>