

## Product datasheet for SC331249

### KAT7 (NM\_001199156) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KAT7 (NM_001199156) Human Untagged Clone
Tag:	Tag Free
Symbol:	KAT7
Synonyms:	HBO1; HBOA; MYST2; ZC2HC7
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC331249 representing NM_001199156. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGCCGGAAGGAAGAGGAATGCAGGCAGTAGTTCAGATGGAACCGAAGATTCGATTTTTCTACAGAT
CTCGAGCACACAGACAGTTCAGAAAGTGATGGCACATCCCAGCATCTGCTCGAGTCACCCGCTCCTCA
GCCAGGCTAAGCCAGAGTTCTCAAGGACACCTTACAGGAAAACATGAGAGACATTTCTCCATCTCAGGA
TGCCCACTGTATCATAACCTCTCAGCTGACGAATGCAAGGTGAGAGCACAGAGCCGGGATAAGCAGATA
GAAGAAAGGATGCTGTCTCACAGGCAAGATGACAACAACAGGCATGCAACCAGGCACCAGGCACCAACG
GAGAGGCAGCTTCGATATAAGGAAAAAGTGGCTGAACTCAGGAAGAAAAGAAATTCTGGACTGAGCAAA
GAACAGAAAGAGAAATATATGGAACACAGACAGACCTATGGGAACACACGGGAACCTCTTTTAGAAAAC
CTGACAAGCGAGTATGACTTGGATCTTTCCGAAGAGCACAAGCCCGGGCTTCAGAGGATTTGGAGAAG
TTAAGGCTGCAAGGCCAAATCACAGAGGGAAGCAACATGATTAACAATTGCTTTTGGCCGCTATGAG
CTTGATACCTGGTATCATTCTCCATATCCTGAAGAATATGCACGGCTGGGACGTCTCTATATGTGTGAA
TTCTGTTTAAAATATATGAAGAGCCAAACGATACTCCGCCGCACATGGCCAAATGTGTGTGAAACAC
CCACCTGGTGATGAGATATATCGCAAAGGTTCAATCTCTGTGTTGAAGTGGATGGCAAGAAAAACAAG
ATCTACTGCCAAAACCTGTGCCTGTTGGCCAAACTTTTTCTGGACCACAAGACATTATATTATGATGTG
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AAGGAAAAGAATTCATTCCTCAACTACAACGTCTCCTGTATCCTTACTATGCCTCAGTACATGAGACAG
GGCTATGGCAAGATGCTTATTGATTTAGTTATTTGCTTTCCAAAGTCGAAGAAAAGTTGGCTCCCA
GAACGTCCACTCTCAGATCTGGGCTTATAAGCTATCGCAGTTACTGGAAGAAGTACTTCTCCGCTAC
CTGCATAATTTTCAAGGCAAAGAGATTTCTATCAAAGAAATCAGTCAGGAGACGGCTGTGAATCCTGTG
GACATTGTCAGCACTCTGCAAGCCCTTCAGATGCTCAAATACTGGAAGGGAAAACACCTAGTTTTAAG
AGACAGGACCTGATTGATGAGTGGATAGCCAAAGAGGCCAAAAGGTCCAACCTCAATAAAAACCATGGAT
CCCAGCTGCTTAAATGGACCCCTCCCAAGGGCACTTAA

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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001199156
Insert Size:	1419 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_001199156.1</a>
<b>RefSeq Size:</b>	3247 bp
<b>RefSeq ORF:</b>	1419 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>	55.1 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 (3) lacks two alternate in-frame exons compared to variant 1. The resulting isoform (3) has the same N- and C-termini but is shorter compared to isoform 1.</p>