

Product datasheet for **RG234202**

KAT7 (NM_001199156) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KAT7 (NM_001199156) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KAT7
Synonyms:	HBO1; HBOA; MYST2; ZC2HC7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234202 representing NM_001199156
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCGAAGGAAGAGGAATGCAGGCAGTAGTTCAGATGGAACCGAAGATTCGGATTTTCTACAGATC
 TCGAGCACACAGACAGTTTCAGAAAGTGATGGCACATCCCGACGATCTGCTCGAGTCACCCGCTCCTCAGC
 CAGGCTAAGCCAGAGTTCTCAAGGACACCTTACAGGAAAACATGAGAGACATTTCTCCATCTCAGGATGC
 CCACTGTATCATAACCTCTCAGCTGACGAATGCAAGGTGAGAGCACAGAGCCGGGATAAGCAGATAGAAG
 AAAGGATGCTGTCTCACAGGCAAGATGACAACAACAGGCATGCAACCAGGCACCAGGCACCAACGGAGAG
 GCAGCTTCGATATAAGGAAAAAGTGGCTGAACTCAGGAAGAAAAGAAATCTGGACTGAGCAAAGAACAG
 AAAGAGAAATATATGGAACACAGACAGACCTATGGGAACACACGGGAACCTCTTTTAGAAAACCTGACAA
 GCGAGTATGACTTGGATCTTTCCGAAGAGCACAAAGCCCGGCTTCAGAGGATTTGGAGAAGTTAAGGCT
 GCAAGGCCAAATCACAGAGGGAAGCAACATGATTAACAATGCTTTTGCCGCTATGAGCTTGATACC
 TGGTATCATTCTCCATATCCTGAAGAATATGCACGGCTGGGACGCTCTATATGTGTGAATTCTGTTTAA
 AATATATGAAGAGCCAAACGATACTCCGCCGGCACATGGCCAAATGTGTGTGGAACACCCACCTGGTGA
 TGAGATATATCGCAAAGTTCAATCTCTGTGTTTGAAGTGGATGGCAAGAAAAACAAGATCTACTGCCAA
 AACCTGTGCCTGTTGGCCAAACTTTTTCTGGACCAACAAGACATTATATTATGATGTGGAGCCCTTCTGT
 TCTATGTTATGACAGAGGCGGACAACACTGGCTGTACCTGATTGGATATTTTCTAAGGAAAAGAATTC
 ATTCTCAACTACAACGTCTCCTGTATCCTTACTATGCCTCAGTACATGAGACAGGGCTATGGCAAGATG
 CTTATTGATTTTCAGTTATTTGCTTTCAAAGTCAAGAAAAAGTGGCTCCCAAGACGTCACCTCTCAG
 ATCTGGGCTTATAAGCTATCGCAGTTACTGGAAGAAGTACTTCTCCGCTACCTGCATAATTTTCAAGG
 CAAAGAGATTTCTATCAAAGAAATCAGTCAGGAGACGGCTGTGAATCCTGTGGACATTGTCAGCACTCTG
 CAAGCCCTTCAGATGCTCAAATACTGGAAGGAAAAACACCTAGTTTTAAAGAGACAGGACCTGATTGATG
 AGTGGATAGCCAAAGAGGCCAAAGGTCCAACCTCAATAAAACCATGGATCCAGCTGCTTAAAATGGAC
 CCTCCCAAGGGCACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234202 representing NM_001199156
 Red=Cloning site Green=Tags(s)

MPRRKRNAGSSSDGTEDSDFSTDLEHTDSSSDGTSRRSARVTRSSARLSQSSQGHLTGKHERHFSISGC
 PLYHNLSADECKVRAQSRDKQIEERMLSHRQDDNNRHATRHQAPTERQLRYKEKVAELRKKRNSGLSKEQ
 KEKYMHRQTYGNTREPLENL TSEYDLDFRRAQARASEDLEKLRLQGQITEGSNMIKTIAFGRYELDT
 WYHSPYPEEYARLGRLYMCEFCLKYMKSTILRRHMAKCVWKHPPGDEIYRKGSI SVFEVDGKKNKIYCQ
 NLCLLAKLFLDHKTLYYDVEPFLFYVMTEADNTGCHLIGYF SKEKNSFLNYNVSCILTMPQYMRQYGKM
 LIDFSYLLSKVEEKVGSERPLSDLGLISYRSYWKEVLLRYLHNFQGKEISIKEISQETA VNPVDIVSTL
 QALQMLKYWKGHKHLVLKRQDLIDEWIAKEAKRSNSNKTMDPSCLKWTPPKGT

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001199156

ORF Size: 1416 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_001199156.1](#), [NP_001186085.1](#)

RefSeq Size: 3247 bp

RefSeq ORF: 1419 bp

Locus ID: 11143

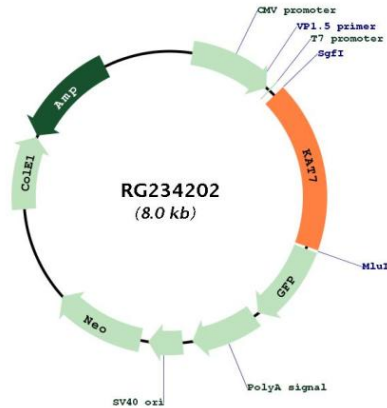
UniProt ID: [O95251](#)

Cytogenetics: 17q21.33

Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

Gene Summary: 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]

Product images:



Circular map for RG234202