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Product datasheet for RC234109

KAT7 (NM_001199158) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KAT7 (NM_001199158) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KAT7
Synonyms:	HBO1; HBOA; MYST2; ZC2HC7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC234109 representing NM_001199158
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGCGAAGGAAGAGGAATGCAGGCAGTAGTTCAGATGGAACCGAAGATTCCGATTTTTCTACAGATC
TCGAGCACACAGACAGTTCAGAAAGTGATGGCACATCCCGACGATCTGCTCGAGTCACCCGCTCCTCAGC
CAGGCTAAGCCAGAGTTCTCAAGGACACCTTACAGGAAAACATGAGAGACATTTCTCCATCTCAGGATGC
CCACTGTATCATAACCTCTCAGCTGACGAATGCAAGGCACCAACGGAGAGGCAGCTTCGATATAAGGAAA
AAGTGGCTGAACTCAGGAAGAAAAGAAATTCTGGACTGAGCAAAGAACAGAAAGAGAAATATATGGAACA
CAGACAGACCTATGGGAACACACGGGAACCTCTTTTAGAAAACCTGACAAGCGAGTATGACTTGGATCTT
TTCCGAAGAGCACAAGCCCGGGCTTCAGAGGATTTGGAGAAGTTAAGGCTGCAAGGCCAAATCACAGAGG
GAAGCAACATGATTAAAACAATTGCTTTTGGCCGCTATGAGCTTGATACCTGGTATCATTCTCCATATCC
TGAAGAATATGCACGGCTGGGACGTCTCTATATGTGTGAATTCTGTTTAAAATATATGAAGAGCCAAACG
ATACTCCGCCGGCACATGGCCAAATGTGTGTGGAAACACCCACCTGGTGATGAGATATATCGCAAAGGTT
CAATCTCTGTGTTTGAAGTGGATGGCAAGAAAAACAAGATCTACTGCCAAAACCTGTGCCTGTTGGCCAA
ACTTTTTCTGGACCACAAGACATTATATTATGATGTGGAGCCCTTCCTGTTCTATGTTATGACAGAGGCG
GACAACACTGGCTGTCACCTGATTGGATATTTTTCTAAGGAAAAGAATTCATTCCTCAACTACAACGTCT
CCTGTATCCTTACTATGCCTCAGTACATGAGACAGGGCTATGGCAAGATGCTTATTGATTTCAGTTATTT
GCTTTCCAAAGTCGAAGAAAAAGTTGGCTCCCCAGAACGTCCACTCTCAGATCTGGGGCTTATAAGCTAT
CGCAGTTACTGGAAAGAAGTACTTCTCCGCTACCTGCATAATTTTCAAGGCAAAGAGATTTCTATCAAAG
AAATCAGTCAGGAGACGGCTGTGAATCCTGTGGACATTGTCAGCACTCTGCAAGCCCTTCAGATGCTCAA
ATACTGGAAGGGAAAACACCTAGTTTTAAAGAGACAGGACCTGATTGATGAGTGGATAGCCAAAGAGGCC
AAAAGGTCCAACTCCAATAAAACCATGGATCCCAGCTGCTTAAAATGGACCCCTCCCAAGGGCACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

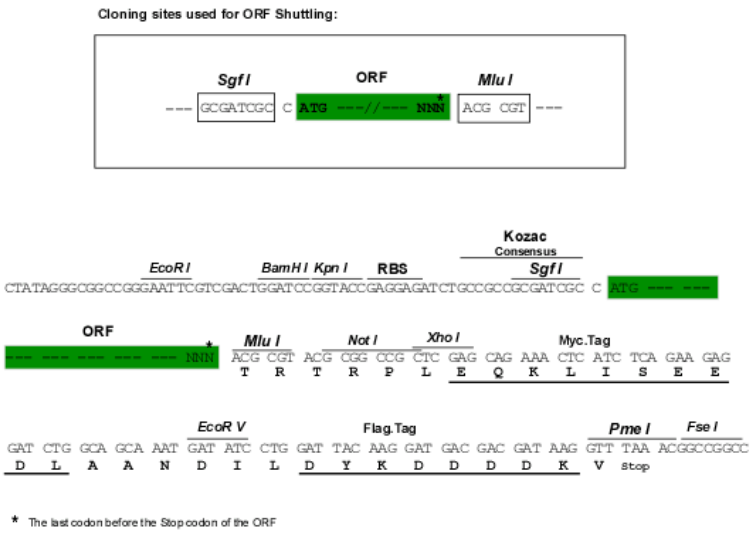
>RC234109 representing NM_001199158
Red=Cloning site Green=Tags(s)

MPRRKRNAGSSSDGTEDSDFSTDLEHTDSSESDGTSRRSARVTRSSARLSQSSQGHLTGKHERHFSISGC
PLYHNLSADECKAPTERQLRYKEKVAELRKKRNSGLSKEQKEKYMEHRQTYGNTREPLLENLTSEYDLDL
FRRAQARASEDLEKLRLQGQITEGSNMIKTIAFGRYELDTWYHSPYPEEYARLGRLYMCEFCLKYMKSQT
ILRRHMAKCVWKHPPGDEIYRKGSISVFEVDGKKNKIYCQNLCLLAKLFLDHKTLYYDVEPFLFYVMTEA
DNTGCHLIGYFSKEKNSFLNYNVSCILTMPQYMRQGYGKMLIDFSYLLSKVEEKVGSPERPLSDLGLISY
RSYWKEVLLRYLHNFQGKEISIKEISQETAVNPVDIVSTLQALQMLKYWKGKHLVLKRQDLIDEWIAKEA
KRSNSNKTMDPSCLKWTPPKGT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001199158

ORF Size: 1326 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_001199158.1, NP_001186087.1

RefSeq Size: 3157 bp

RefSeq ORF: 1329 bp

Locus ID: 11143

UniProt ID: O95251

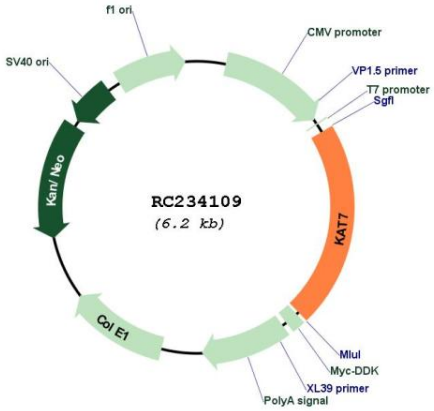
Cytogenetics: 17q21.33

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

MW: 51.9 kDa

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 RC234109