

## Product datasheet for **RC215692**

### **KAT8 (NM\_182958) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KAT8 (NM_182958) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KAT8
Synonyms:	hMOF; LIGOWS; MOF; MYST1; ZC2HC8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC215692 representing NM\_182958  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**C

ATGGCGGCACAGGAGCTGCTGCGGCGGTTGCGGCGGGGACTTCAGGGGTCGCGGGGAGGGCGAGCCCG  
 GGCCCGGGGAGAATGCGGCCGCTGAGGGGACCGCCCATCCCGGGCGCGTCTCTCCGCCGACCCGGC  
 GCGCGGCAGCCGAAGTCACGGTGGAGATCGGAGAAACGTACCTGTGCCGCGACCCGATAGCACCTGG  
 CATTCTGCTGAAGTGATCCAGTCTCAGTGAACGACCAGGAGGGCCGAGAGGAATTCTATGTACTACTAG  
 TGGGCTTTAACCGGCGGCTGGACGAGTGGGTAGACAAGAACCGGCTGGCGCTGACCAAGACAGTGAAGGA  
 TGCTGTACAGAAGAACTCAGAGAAGTACCTGAGCGAGCTCGCAGAGCAGCCTGAGCGCAAGATCACTCGC  
 AACCAAAAGCGCAAGCATGATGAGATCAACCATGTGCAGAAGACTTATGCAGAGATGGACCCACCACAG  
 CAGCCTTGGAGAAGGAGCATGAGGCGATACCAAGGTGAAGTATGTGGACAAGATCCACATCGGGAACCTA  
 CGAAATTGATGCCTGGTATTTCTACCATTCGCCGAAGACTATGGGAAACAGCCCAAGCTCTGGCTCTGC  
 GAGTACTGCCTCAAGTACATGAAATATGAGAAGAGCTACCGCTTCCACTTGGGTCACTGCCAGTGGCGGC  
 AGCCCCCGGGAAGAGATCTACCGCAAGAGCAACATCTCCGTGTACGAAGTTGATGGCAAAGACCATAA  
 GATTTACTGTGAGAACCTGTGTCTGCTGGCCAAGCTTTTCTGGACCATAAGACTGTACTTTGACGTG  
 GAGCCGTTCTGCTTTTACATCCTGACTGAGGTGGACCGGCGAGGGGCCACATTGTTGGCTACTTCTCCA  
 AGGAGAAGGAGTCCCGGATGGAACAATGTGGCTGCATCCTGACCTTGCCCCCTACCAACGCCGCGG  
 CTACGGGAAGTTCTCATCGCTTTCAGTTATGAGCTCTCCAAGCTGGAGAGCACAGTCCGCTCCCGGAG  
 AAGCCGCTGTCTGACCTGGGCAAGCTCAGCTACCGCAGCTACTGGTCTGGGTGCTGCTGGAGATCTGCTG  
 GGGACTTCCGGGGCACACTGTCCATCAAGGACCTCAGCCAGATGACCAAGTATCACCAAAATGACATCAT  
 CAGTACCCTGCAATCCCTCAATATGGTCAAGTACTGGAAGGGCCAGCACGTGATCTGTGTACACCCAAG  
 CTGGTGGAGGAGCACCTCAAAAGTGCCAGTATAGAAACCAACCATCACAGGTGGGTGGGGGGCTGCTG  
 TGTGTGGGGGGCGGTGGGGGAGTGTCAGTATGTGGAAGTGGTAGGAGTCAAGGCCTCCTATTGCTGTAC  
 A

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC215692 representing NM\_182958  
 Red=Cloning site Green=Tags(s)

MAAQGAAVAAGTSGVAGEGEPGPGENAAAEGTAPSPGRVSPPTPARGEPEVTVEIGETYLRRPDSTW  
 HSAEVIQSRVNDQEGREEFYVHYVGFNRRLDEWVDKNRLALTKTVKDAVQKNSKEYLSELAEQPERKITR  
 NQKRKHDEINHVQKTYAEMDPTTALEKEHEAITKVYVDKIHIGNYEIDAWYFSPFPEDYQKPKLWLC  
 EYCLKYMKEYSYRFLGQCQWRQPPGKEIYRKSNI SVYEVDGDKHIYQNLCLLAKLFLDHKTLYFDV  
 EPFVFYILTEVDRQGAHIVGYFSKEKESPDGNNVACILTLPPYQRRGYGKFLIAFSYELSKLESTVGSPE  
 KPLSDLGKLSYRSYWSVLLLEILRDFRGLSIKDLQMTSITQNDIISTLQSLNMVKYWKQHVICVTPK  
 LVEEHLKSAQYKKPPIITGGWGAAVCRGRWGSVSMWTGRSQGLLIAVT

**TR**TRPLE**QKL**ISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8028\\_h10.zip](https://cdn.origene.com/chromatograms/mk8028_h10.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_182958

**ORF Size:** 1401 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\\_182958.1](#), [NP\\_892003.1](#)

**RefSeq Size:** 1787 bp

**RefSeq ORF:** 1404 bp

**Locus ID:** 84148

**UniProt ID:** [Q9H7Z6](#)

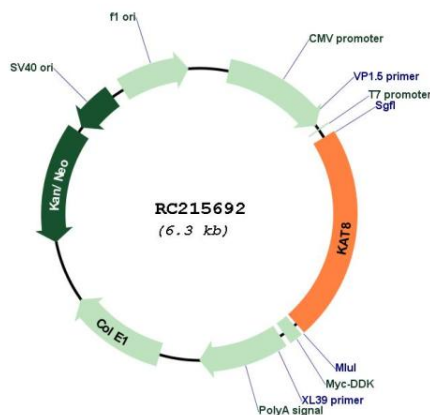
**Cytogenetics:** 16p11.2

**Protein Families:** Transcription Factors

**MW:** 52.9 kDa

**Gene Summary:** This gene encodes a member of the MYST histone acetylase protein family. The encoded protein has a characteristic MYST domain containing an acetyl-CoA-binding site, a chromodomain typical of proteins which bind histones, and a C2HC-type zinc finger. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2012]

## Product images:



Circular map for RC215692