

Product datasheet for **SC316758**

KAT8 (NM_182958) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KAT8 (NM_182958) Human Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >SC316758 representing NM_182958.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCGGCACAGGGAGCTGCTGCGGCGGTTGCGGCGGGGACTTCAGGGGTGCGGGGGAGGGCGAGCCC
GGGCCCGGGGAGAATGCGGCCGCTGAGGGGACCGCCCATCCCCGGCCGCGTCTCTCCGCCGCCCG
GCGCGCGGCGAGCCGGAAGTACGGTGGAGATCGGAGAAAACGTACCTGTGCCGGCAGCCGATAGCAC
TGGCATTCTGCTGAAGTATCCAGTCTCGAGTGAACGACCAGGAGGGCCGAGAGGAATTCTATGTACAC
TACGTGGGCTTTAACCGGCGGCTGGACGAGTGGGTAGACAAGAACCAGGCTGGCGTGACCAAGACAGTG
AAGGATGCTGTACAGAAGAACTCAGAGAAGTACCTGAGCGAGCTCGCAGAGCAGCCTGAGCGCAAGATC
ACTCGCAACAAAAGCGCAAGCATGATGAGATCAACCATGTGCAGAAGACTTATGCAGAGATGGACCCC
ACCACAGCAGCCTTGGAGAAGGAGCATGAGGGCATCACCAAGGTGAAGTATGTGGACAAGATCCACATC
GGGAACACGAAATTGATGCCTGGTATTTCTACCATTCCCCGAAGACTATGGGAAACAGCCCAAGCTC
TGGCTCTGCGAGTACTGCCTCAAGTACATGAAATATGAGAAGAGTACCCTTCCACTTGGGTGAGTGC
CAGTGGCGGCAGCCCCCGGAAAGAGATCTACGCAAGAGCAACATCTCCGTGTACGAAGTTGATGGC
AAAGACCATAAGATTTACTGTGCAAGCTGTGTCTGCTGGCCAAGCTTTTCTGGACCATAAGACTG
TACTTTGACGTGGAGCCGTTTCGCTTTTACATCCTGACTGAGGTGGACCGGCAGGGGGCCACATTTGT
GGTACTTCTCCAAGGAGAAGGAGTCCCCGGATGGAAACAATGTGGCCTGCATCCTGACCTTGCCCCC
TACCAACGCCGCGGCTACGGGAAGTTCCATCGCTTTCAGTTATGAGCTCTCCAAGCTGGAGAGCACA
GTCGGCTCCCCGAGAAGCCACTGTCTGACCTGGGCAAGCTCAGTACCAGCTACTGGTCTGGGTG
CTGTAGAGATCCTGCGGACTTCCGGGACACTGTCCATCAAGGACCTCAGCCAGATGACCAAGTATC
ACCCAAAATGACATCATCAGTACCTGCAATCCCTCAATATGGTCAAGTACTGGAAGGGCCAGCAGTG
ATCTGTGTACACCCAAGCTGGTGGAGGACCTCAAAAGTGCCAGTATAAGAAACCACCCATCACA
GGTGGGTGGGGGCTGCTGTGTGTCGGGGCGGTGGGGGAGTGTGAGTATATGGACTGGTAGGAGTCAA
GGCCTCTTATTGCTGTCACTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_182958

Insert Size: 1404 bp

OTI Disclaimer: 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_182958.2](#)

RefSeq Size: 1840 bp

RefSeq ORF: 1404 bp

Locus ID: 84148

UniProt ID: [Q9H7Z6](#)

Cytogenetics: 16p11.2

Protein Families: Transcription Factors

MW: 53.1 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]

Transcript Variant: This variant (2) includes an alternate segment, compared to variant 1, that causes a frameshift. The resulting protein (isoform 2) has a distinct and longer C-terminus, compared to isoform 1.