

Product datasheet for **RG224748**

KAT8 (NM_032188) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KAT8 (NM_032188) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KAT8
Synonyms:	hMOF; LIGOWS; MOF; MYST1; ZC2HC8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224748 representing NM_032188
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCACAGGGAGCTGCTGCGCGGTTGCGCGGGGACTTCAGGGTTCGCGGGGAGGGCGAGCCCG
 GGCCCGGGGAGAATGCGGCCGCTGAGGGGACCGCCCATCCCGGGCCGGTCTCTCCGCCGACCCCGGC
 GCGCGCGGAGCCGGAAGTCACGGTGGAGATCGGAGAAACGTACCTGTGCCGGCGACCGGATAGCACCTGG
 CATTCTGCTGAAGTGATCCAGTCTCGAGTGAACGACCAGGAGGGCCGAGAGGAATTCTATGTACACTACG
 TGGGCTTTAACCGCGGCTGGACGAGTGGGTAGACAAGAACCAGGCTGGCCTGACCAAGACAGTGAAGGA
 TGCTGTACAGAAGAACTCAGAGAAGTACCTGAGCGAGCTCGCAGAGCAGCCTGAGCGCAAGATCACTCGC
 AACCAAAAGCGCAAGCATGATGAGATCAACCATGTGCAGAAGACTTATGCAGAGATGGACCCACCACAG
 CAGCCTTGAGAGAAGGAGCATGAGGCGATACCAAGGTGAAGTATGTGGACAAGATCCACATCGGGAAC
 CGAAATTGATGCCTGGTATTTCTCACCATTCCCGAAGACTATGGGAAACAGCCCAAGCTCTGGCTCTGC
 GAGTACTGCCTCAAGTACATGAAATATGAGAAGAGCTACCGCTTCCACTTGGGTCAAGTGGCAGTGGCGGC
 AGCCCCCGGAAAGAGATCTACCGCAAGCAACATCTCCGTGTACGAAGTTGATGGCAAAGACCATAA
 GATTTACTGTGAGAACCTGTGTCTGCTGGCCAAGCTTTTCTGGACCATAAGACTGTACTTTGACGTG
 GAGCCGTTCTGCTTTTACATCCTGACTGAGGTGGACCGGCGAGGGGCCACATTGTTGGCTACTTCTCCA
 AGGAGAAGGAGTCCCGGATGGAACAATGTGGCTGCATCCTGACCTTGCCCCCTACCAACGCCCGCG
 CTACGGGAAGTTCTCATCGCTTTCAGTTATGAGCTCTCCAAGCTGGAGAGCACAGTCCGCTCCCGGAG
 AAGCCACTGTCTGACCTGGGCAAGCTCAGCTACCGCAGCTACTGGTCTGGGTGCTGCTAGAGATCCTGC
 GGGACTTCCGGGGCACACTGTCCATCAAGGACCTCAGCCAGATGACCAGTATCACCAAAATGACATCAT
 CAGTACCCTGCAATCCCTCAATATGGTCAAGTACTGGAAGGGCCAGCACGTGATCTGTGTACACCCAAG
 CTGGTGGAGGAGCACCTCAAAAGTGCCAGTATAAGAAACCACCCATCACAGTGGACTCCGCTGCCTCA
 AGTGGGACCCCCAAGCACAAGCAAGTCAAGCTCTCCAAGAAG

ACCGTACCGCGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224748 representing NM_032188
 Red=Cloning site Green=Tags(s)

MAAQGAAVAAGTSGVAGEGEPGGENAAAEGTAPSPGRVSPPTPARGEPEVTVEIGETYLRRPDSTW
 HSAEVIQSRVNDQEGREEFYVHYVGFNRRLDEWVDKNRLALTKTVKDAVQKNSKEYLSELAEQPERK ITR
 NQKRKHDEINHVQKTYAEMDPTTAALKEHEAITKVYVDKIHIGNYEIDAWYFSPFPEDYGKQPKLWLC
 EYCLKYMKYEKSYRFLGQCQWRQPPGKEIYRKSNISVYEVGDKDHIYCNLCLLAKFLDHTLYFDV
 EPFVFYILTEVDRQGAHIVGYFSKEKESPDGNNVACILTPPYQRRGYGKFLIAFSYELSKLESTVGSPE
 KPLSDLGKLSYRSYWSVLLLEILRDFRGLSIKDLQMTSITQNDIISTLQSLNMVYKYGQHVICVTPK
 LVEEHLKSAQYKPPITVDSVCLKWAPPKHKQVKLSKK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_032188

ORF Size: 1374 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

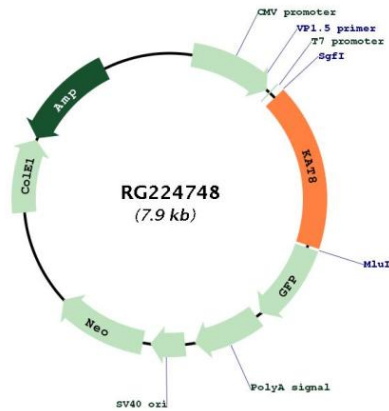
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_032188.3](#)

RefSeq Size: 1546 bp
RefSeq ORF: 1377 bp
Locus ID: 84148
UniProt ID: [Q9H7Z6](#)
Cytogenetics: 16p11.2
Domains: CHROMO, MOZ_SAS
Protein Families: Transcription Factors
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 RG224748