

Product datasheet for SC316616

Histone acetyltransferase MYST3 (KAT6A) (NM_001099412) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Histone acetyltransferase MYST3 (KAT6A) (NM_001099412) Human Untagged Clone
Tag:	Tag Free
Symbol:	Histone acetyltransferase MYST3
Synonyms:	MOZ; MRD32; MYST3; RUNXBP2; ZC2HC6A; ZNF220
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001099412, the custom clone sequence may differ by one or more nucleotides

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ATGGTAAACTCGCAAACCCGCTTTATACTGAGTGGATTTTGGAGGCCATCAAAAAAGTG
AAAAAGCAGAAACAGCGTCCTTCAGAAGAAAGGATATGCAATGCTGTCTTCATCCCAT
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 CCCTCCCATCACAGCTACATGAACGCTGCTGGCGTGCCCAAGCAGTCACTCAACGGACCT
 TACATGAGAAGA

Restriction Sites:

Please inquire

ACCN:

NM_001099412

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 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:	<ol style="list-style-type: none">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:	<u>NM_001099412.1, NP_001092882.1</u>
RefSeq Size:	9285 bp
RefSeq ORF:	6015 bp
Locus ID:	7994
Cytogenetics:	8p11.21
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>This gene encodes a member of the MOZ, YBFR2, SAS2, TIP60 family of histone acetyltransferases. The protein is composed of a nuclear localization domain, a double C2H2 zinc finger domain that binds to acetylated histone tails, a histone acetyl-transferase domain, a glutamate/aspartate-rich region, and a serine- and methionine-rich transactivation domain. It is part of a complex that acetylates lysine-9 residues in histone 3, and in addition, it acts as a co-activator for several transcription factors. Allelic variants of this gene are associated with an autosomal dominant form of cognitive disability. Chromosomal translocations of this gene are associated with acute myeloid leukemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2017]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2, and 3 all encode the same protein.</p>