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Product datasheet for RC212980

Histone acetyltransferase MYST3 (KAT6A) (NM_001099413) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Histone acetyltransferase MYST3 (KAT6A) (NM_001099413) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Histone acetyltransferase MYST3
Synonyms:	MOZ; MRD32; MYST3; RUNXBP2; ZC2HC6A; ZNF220
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC212980 representing NM_001099413
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC212980 representing NM_001099413
Red=Cloning site Green=Tags(s)

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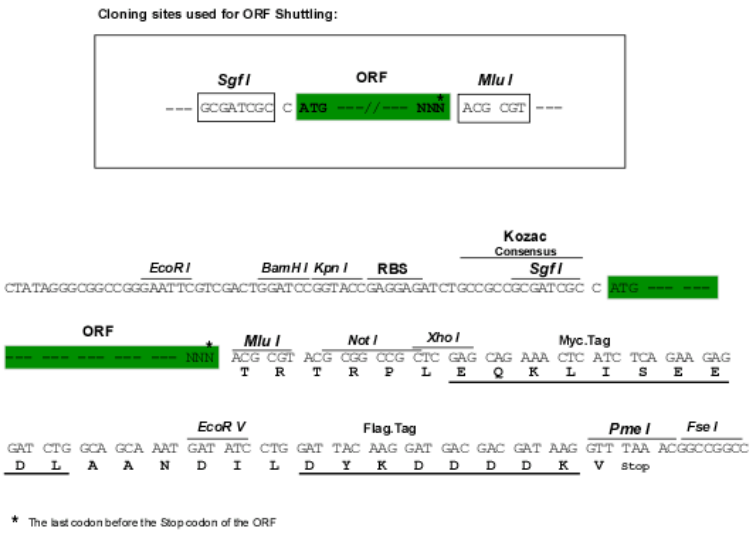
Restriction Sites: SgfI-MluI

Cloning Scheme:



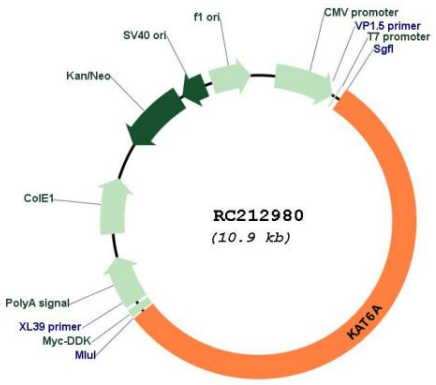
ACCN:	NM_001099413
ORF Size:	6012 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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_001099413.1, NP_001092883.1
RefSeq Size:	9241 bp
RefSeq ORF:	6015 bp
Locus ID:	7994
Cytogenetics:	8p11.21

Protein Families: Druggable Genome, Transcription Factors

MW: 224.8 kDa

Gene Summary: 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]

Product images:



Circular map for RC212980