

Product datasheet for **RR210309**

Kat8 (NM_001017378) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kat8 (NM_001017378) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kat8
Synonyms:	Myst1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR210309 representing NM_001017378
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCACAGGGACAAACAGCCGCTGTTGCTGCAACAACCTTCAGGAATTGTAGGGGAGGGAGAGCCCG
 GTCGGGGGAAAAATACATCGGTCGAGGGCCTGCCGATCCCCGGCCGGGTCTCTCCGCCGACTCCGGC
 CGGTGGCGAACAGAAAGTACCCTGGAGATCGGAGAAACGTACCTGTGCCGGCGGCCGACAGCACCTGG
 CATTTCAGCAGAAGTGATCCAGTCTCGAGTGAATGACCAAGAGGGCCGAGAAGAATTCTATGTTTCATTATG
 TGGGCTTTAACAGGGCAGTGGACGAATGGGTGGACAAGAACCAGCTTGTCTGACTAAGACAGTGAAGGA
 TGCCGTGCAGAAGAATTCTGAGAAGTACCTGAGTGAGCTGGCGGAGCAGCCTGAGCGCAAGATCACTCGA
 AACCAAAAACGAAAGCATGATGAGTCAACCATGTACAGAAGACCTATGCAGAGATGGACCCACCACAG
 CAGCCTTGAAAAGGAGCATGAGGCGATACCAAAGTGAAGTATGTAGACAAGATCCACATTGGCAACTA
 CGAAATTGATGCCTGGTATTTCTCACCTTTCCCGGAGACTATGGGAAGCAGCCCAAGCTTTGGCTCTGC
 GAGTACTGCCTCAAGTACATGAAGTTCGAGAAGAGCTACCGCTTCCACCTGGGCCAGTGCCAGTGGCGGC
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 GAGCCCTTTGTCTTTTACATTTTACAGAAGTAGATAGGCAAGGGGCTCACATTGTTGGCTACTTTTCTA
 AGGAGAAGGAATCCCCTGATGGAACAACGTGGCTGCATCCTGACCCTGCCTCCCTACCAGCGCGTGG
 CTATGGGAAGTTTCTCATTGCCTCAGTTATGAGCTTTCTAAGCTTGAGAGTACTGTAGGCTCCCGAG
 AAGCCACTGAGTGACCTGGGCAACTCAGTTACAGAAGCTACTGGTCATGGGTCTTGCTGGAGATCCTTC
 GAGACTCCGGGGCACATTGTCTATCAAAGATCTTAGCCAGATGACCAGCATACCCAGAATGACATCAT
 CAGCACCTGCAGTCCCTCAACATGGTCAAGTACTGGAAGGGCCAGCATGTGATCTGTGTCACACCTAAG
 CTAGTAGAAGAACATCTCAAAGTGCCAGTATAAGAAGCCACCTATCACAGTGGACTCTGTCTGCCTCA
 AGTGGGCACCCCGAAGCACAAACAAGTCAAGCTCTCCAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210309 representing NM_001017378
 Red=Cloning site Green=Tags(s)

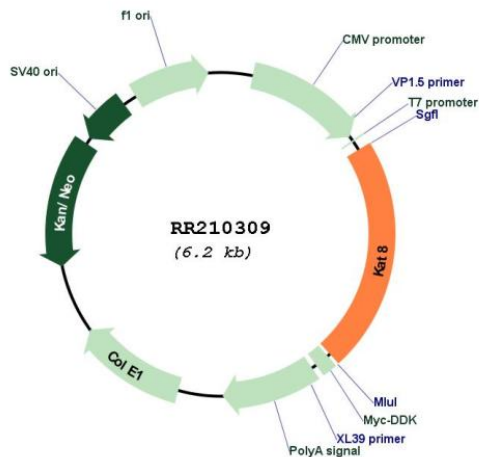
MAAQGATAA VAATTS GIVGEGEPG PGENTSVEGPARSPGRVSPPTPARGEPEVTVEIGETYLCRRPDSTW
 HSAEVIQSRVNDQEGREEFYVHYVGFNRRLDEWVDKNRLALTKTVKDAVQKNSKEYLSELAEQPERK ITR
 NQKRKHDEINHVKTYAEMDPTTA ALEKEHEA ITKVKYVDKIHIIGNYEIDAWYFSPFPEDY GKQPKLWLC
 EYCLKYMKFEKSYRFLHGQCQWRQPPGKEIYRKSNI SVYEV DKGDKHIYCQNLCLLAKFLD HKTLYFDV
 EPFVFYILTEVDRQGAHIVGYFSKEKESPDGNNVACIL TLPPYQRRYGKFLIAFSYELSKLESTVGSPE
 KPLSDLGKLSYRSYWSWVLEILRDFRGTLSIKDLSQMTSITQNDIISTLQSLNMVYKWKQHVICVTPK
 LVEEHLKSAQYKPPITVDSVCLKWAPPKHKQVKLSKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Plasmid Map:


ACCN: NM_001017378

ORF Size: 1374 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:	<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_001017378.1, NP_001017378.1</u>
RefSeq Size:	1558 bp
RefSeq ORF:	1377 bp
Locus ID:	310194
UniProt ID:	<u>Q5XI06</u>
Cytogenetics:	1q37
MW:	52.6 kDa
Gene Summary:	Histone acetyltransferase which may be involved in transcriptional activation. May influence the function of ATM. As part of the MSL complex it is involved in acetylation of nucleosomal histone H4 producing specifically H4K16ac. As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues. That activity is less specific than the one of the MSL complex. Can also acetylate TP53/p53 at 'Lys-120'. [UniProtKB/Swiss-Prot Function]