

Product datasheet for **MR210607**

Kat14 (NM_001166640) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kat14 (NM_001166640) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kat14
Synonyms:	2510008M08Rik; ATAC2; AU023459; D2Ertd473e; D2Wsu131e; E430020F17; Kat14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210607 representing NM_001166640
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGATAGTAGCATCCACCTGAGTGGGCTCCTCAGTCGGCATGACGATGACGCCACGAGAACGTCCACCT
CGGAAGGCTGGAGGAAGCGAGGTGGAGGGAGAGACTCTCTAATTGTGGAATCGGAGGATCAGGCGTC
AGTGGACTTATCTCACGACCAGAGTGGGGATCCCTCAACAGCGATGAAGGAGATGTGTCCTGGATGGAG
GAACAGCTGTCTTACTTCTGTGACAAGTGCCAAAAGTGGATCCCAGCCAGTCAGCTGAGGGAGCAGCTCA
GTTACCTGAAGGGGATAACTTTTTAGGTTTACTTGTGCGATTGCTCTGCAGACGGCAAGGAGCAGTA
CGAGAGGCTGAAGCTGACATGCCAGCAAGTGGTCATGCTGGCAATGTACAACCTGTCTCTGGAAGGAAGT
GGACGTCAAGTTATTTCCGGTGGAAAGAAGATATCTGTGCTTTATTGAGAAACATTGGACTTTTTTAC
TAGGAAATAGGAAAAGACGTGACGTGGTGGAGCACAGTAGCAGGCTGTCTCAGCGTGGGAAGCCCTGT
TTATTTCCGGTCAGGTGCTCAGGAGTTTGGAGAGCCCGGATGGTGGAACTTGTTCATAACAGACCCCA
ACCATGAGGCCGGAGGGAGAGAAGCTGGCTGCCTCCACCTTGAAAGTGAAAGCTTCAAAGCCAACGCTGG
ATCCCATCATTACTGTTGAGGGACTCAGAAAACGGGCAAGCCGGAATCCTGTGGAATCTGCCATGGAATT
GAAAGAGAAGCGGTCCGGAACACAGGAAGCTAAAGACATCAGAAGAGCTCAGAAAAGAAGCGGCTGGCCTC
CTCGACAGGAGCACCTCTCCACTCCCCTCAAGTTCATAAGCCGAGGCCGGAGGCCGGATCTGATTTTGG
AGAAAGGAGAAGTGATTGACTTCTCGTCCCTAAGTCTCAGACCCGACTCCCCTCACAAGCCCGTCTCC
TTCTCCGTCTCTGGATTTCTCCGCCCGGGGACGCCAGCTCGCACTCGGCCACACCTAGCTTGTCTTCC
GAAGCAGACCTCATCCCAGACGTGATGCCACCCCAAGCCCTGTTTCATGATGACGATGAGCTGGAAGGAG
ATGGAGTTATAGACCCAGGGATGGAGTACATCCCACCCAGCTGGTCCAGCGTCTGGGCTGCTTGGGAG
CAGAAAGAAGGTCCGAGCTCCGGAACAGATAAAAACAGGAAGTGGACAGCGAGGAGGAGAAGCCAGACAGG
ATGGATGGAGATAGCGAAGACACAGATTCAAACATTTCTCTGCACACTAGAGCTCGAGAAAAGAGGAAGC
CGCCACTGGAAAAGGACATGAAGCCCAAGGGCCCCAGGTATACACCCGTGAGCATCTATGAGGAGAAGCT
GCTGCTCAAGAGGCTGGAGGCGTCCCCGGCGCCGTGGCCATGACTCCAGAAGCCAGGAGGCTGAAACGG
AAACTGATCGTCCGCAATTGAAAAGAGATCGGGGTTTACCCTGTTGACTTGGACGAGGTTGTGAATG
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AGCTACATACCGGACCACCTGCCAGGACTTTCCGATCCTGGACCCGTACCAGACTGCCTTACCAGCCAGG
AAAGGATTCGGCACCAGACCACGAGATTTTTGTATCGTTTGGTGGGATCAGAAGATCTGGCTGTGGACC
AAAGTATTATCAGCCCTTATACTTCTCGGATCTTGAAACCTTATATCAGGCGTGATTATGAGACAAGCC
ACCCAAACTACAGCTCCTGTACAGATCCGTTCCACCTGCACAGGAGTGACCCTCACTGGACACCTGGA
CCTGATGCACCCCTCGATTACTGCTATGTCCGACCAAAATCACATCCCAACCATCAACTCCATGTGCCAGG
AGTTTTTCTGGCCTGGCATTGACCTGTCTGAGTGTCTGCAGTATCCAGACTTCAGTGTGTGATGCTTTA
TAAAAAAGTCATTGTTGCCTTTGGCTTCATGGTTCCTGATGTGAAGTACAACGAAGCTTACATCTCATT
CTGCTTGTTCATCCTGAGTGGAGGAGAGCAGGGATCGCCACATTCATGATCTATCATCTGATTGAGACAT
GCATGGCAAGGATGTGACTCTTCATGTCTCGCAAGCAACCCCGCCATGCTGCTGTACCAGAAGTTTGG
CTTCAAGACCGAGGAGTATGTTTTGGATTTTATGATAAGTATTACCCGCTGGAGAGTACGGAGTGTAAG
CATGCATTCTTCTGAGGCTCCGACGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210607 representing NM_001166640
 Red=Cloning site Green=Tags(s)

MDSSIHLSGLLSRHDDDATRTSTSEGLEEGEVEGETLLIVESEDQASVDLSHDQSGDSLNSDEGDVSWME
 EQLSYFCDKCKWIPASQLREQLSYLKGNDFRFTCCDCSADGKEQYERLKL TWQQVVMLAMYNL SLEGS
 GRQVYFRWKEDICAFIEKHWTFLGNRKKTSTWWSTVAGCLSVGSPVYFRSGAQEFGEPEGWWKLVHNRPP
 TMRPEGEKLAASTLKVKASKPTLDPIITVEGLRKRASRNPVESAMELKEKRSRTQEAKDIRRAQKEAAGL
 LDRSTSSTPVKFI SRGRRPDLILEKGEVIDFSSLSSSDRTPLTSPSPSLDF SAPGTPASHSATPSLLS
 EADLIPDVMPQALFHDDDELEGDGVIDPGMEYIPPPAGSASGLLGSRKKVRAPEQIKQEVDSEEEKPDR
 MDGSED TDSNISLHTRAREKRKPPLEKDMKPKGPRYTPVSIYEEKLLLKRLEACP GAVAMTPEARLKR
 KLIVRQLKRDRLPLFDLDEVVNAALLVDGIYGA KGGASRLAAGQATYRTTCQDFRILD RYQTALPAR
 KGRHQTRFLYRLVGS EDLAVDQSIISPYTSRILKPYIRRDYETKPPKLQLLSQIRSHLHRSDPHWTPG
 PDAPLDYCYVRPNHIPTINSMCQEFFWPGIDLSECLQYPDFSVVVL YKKVIVAFGMVPDVKYNEAYISF
 LLVHPEWRRAGIATFMIYHLIQTCMGKDVTLHVSASNPAMLLYQKFGFKTEEYVLDFYDKYYPLESTECK
 HAFFLRLRR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001166640

ORF Size: 2337 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 Size: 3265 bp

RefSeq ORF: 1956 bp

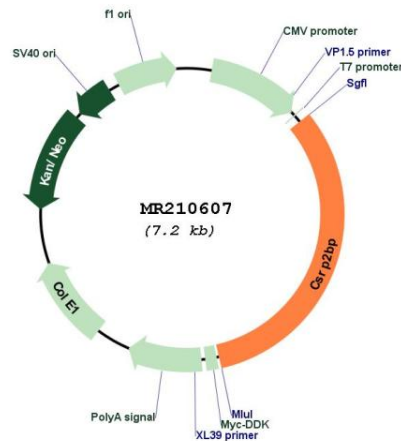
Locus ID: 228714

Cytogenetics: 2 71.01 cM

MW: 74.2 kDa

Gene Summary: Component of the ATAC complex, a complex with histone acetyltransferase activity on histones H3 and H4. May function as a scaffold for the ATAC complex to promote ATAC complex stability. Has also weak histone acetyltransferase activity toward histone H4. Required for the normal progression through G1 and G2/M phases of the cell cycle (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210607