

## Product datasheet for RN208429

### Kat6a (NM\_001100570) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kat6a (NM_001100570) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kat6a
Synonyms:	Moz; Myst3; Runxpb2; Znf220
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN208429 representing NM_001100570 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTAAAGCTCGCTAACCCGCTGTACACGCAGTGGATTTGGAGGCCATCAAAAAGTCAAGAAGCAGA  
AACAGCGACCTTCAGAAGAAAGAATATGCAATGCAGTGTCTCTCCACGGCTTAGATCGGAAACTGT  
CCTGGAGCAGTTGGAGCTGAGTGTAAAGATGGCAGCATCTAAAAGTCTCAAACAAAGGCTCAACTCC  
TATAAAGATCCTGATAATCCTGGGCGAATAGCACTTCTAAACCTCGAAACCATGGAAAGTTGGATAATA  
AACAAAGTGTGGATTGGAATAAATTAAGTCAAGCGGGCATTGGAGGCTTGGCAGAGTCTGGTGGCTCAAC  
TTTGAAAAGTATTGAACGCTTTTGAAGCCAGAAAGGATGTGTCTGCTGCCTGTGGAGGCACTGCTGCC  
TCTGGGTTTACCAGCAGCTGCGGTTGGCGATCAAGCGTGCCGTTGGTCAATGGCCGACTCCTTAAAGATG  
GACCTCTACCGGCTCAACACCAAGGCAGCCAATGCTGAAGGGAAAGAGGGCTGCGAGTCGCTCTCGTG  
TTTACCTCCTGTGCTACTGCTTCCACACGAGAAAGATAAGCCGTTGCTGAACCAATCCCATCTGTAGT  
TTCTGTCTTGGTACAAAAGAACAAAACCGGAAAAAGAGCCTGAGGACCTCATCTCTGCGCAGACTGTG  
GCAATAGCGGTACCCATCCTGCTTAAAGTTCTCCCAGAACTCACAGTGAGAGTGAGGGCCCTGCGGTG  
GCAGTGCATCGAGTGCAAAACGTGCAGCTCCTGTCCGATCAAGGCAAAAACGCAGATAACATGCTCTTT  
TGTGATCATGTGACCGAGGTTTTACATGGAGTGTGGTACCCACCCCTCACACGGATGCCAAAAGGCA  
TGTGGATATGTCAGATATGCCGACCCAGGAAAAAGGACGAAACTGCTACAAAAGAAGGCAGCACAGAT  
AAAACGCGCTATGCTAATCCAATAGGACGTCAAAAAACAGGTTAAAGAAAACAAAGCACGGTATCAAAA  
GGTCCCTTTAGCAAAGTTCGAACTGGTCTGGAAGGGTTCGAAACGTAAAATCACTGTATCCAGCCAGT  
CTGCGTCATCCTCAGAAGAAGGCTATTTAGAGCGGATAGATGGCTTGGACTTCTGCAGAGATAGCAGTGC  
CCCCTTGAAGTTCAACAAGAAAACCAAGGGCTCATTGATGGCCTTACCAAATCTTACCCTTCTCTCT  
GATGGGCGGAAAGCCGAGGGGAGGCGGTAGACTACTCTGAGCTCAGAATCAGGAAAAAGGGCAACAGAA  
AATCAAGTACTTACATTGGCCACAGACAATCAGGACGGCTGGGAAAGCAAACAGGAAAGTGGAGGCG  
GCTTTTTGGGAGCCAAGAAATCATGACGAAAGAGATATGGAATTATTTCTGATATCCAAGAACAAGCA



[View online »](#)

CTGCAGAAAGTTGGAGTAACTGGGCCCCCTGATCCACAAGTCCGCTGTCCCTCCGTCATTGAGTTTGGGA  
 AGTATGAAATCCACACCTGGTATTCCTCTCCATATCCTCAAGAATACTCAAGGCTGCCTAAATTGTATCT  
 TTGTGAGTTCTGTCTAAAATATATGAAAAGTAGAACTATTCTCCAGCAGCACATGAAGAAATGTGGTTGG  
 TTCCATCTCCCAGCAATGAGATTTACCGAAAGAATAATTTCTGTCTTTGAGGTTGATGGGAATGTGA  
 GTACCATTTATTGTCAAATCTGTGTCTTTGGCAAAGTTGTTTCTTGACCACAAAACACTCTATTATGA  
 CGTGGAGCCATTTCTCTCTATGTTTTAACACAGAATGATGTCAAGGGCTGCCACCTTGTGGCTACTTT  
 TCTAAAGAAAAGCACTGCCAACAGAAATACAATGTCTCCTGTATAATGATTCTTCCCAAATACCAACGTA  
 AGGGCTACGGCAGGTTTCTCATCGATTTTCAGTTATTTGTTATCAAAGCGTGAAGGCCAAGCAGGCTCTCC  
 TGAAAACCCTATCAGATCTAGGTCGTCTTCTACATGGCTTATTGGAAAAGTGAATCTTGGAGTGC  
 CTTTATCACCAGAATGACAAACAGATCAGCATTAGAAGCTGAGTAAGCTGACTGGAGTCTGCCCGCAAG  
 ACATTACTTCCACTCCACCACCTACGGATGCTGGACTTCCGAAGTGACCAATTTGTGATTATCCGCCG  
 GGAAAACTTATCCAGGATCACATGGCGAAGCTCCAGTGAATCTTGCACCTGTCGATGTAGATCCAGAA  
 TGCTTACGCTGGACTCCAGTCATAGTCTCCAACCTGTGCTCTCAGAGGAGGAGGATGAGGAGGCTGATG  
 ACGGAGAGAAAAGAGCCCAAGGCCAAGAAAGAGAGTTAGAGACCAGGGAAAGGGTGGAAAAGTCTGT  
 GTCTCGGAGAAACAAGATCAGGATTCTTCTCTTTAATAGAAAAGTGAAGAAAACAGAAAGTCAAGGAA  
 CTAGCCAGCTCTTACGCTGAGCAAACAGGCCCTTGTCCGGGACAGTCTTCTGCAAATAGCCAGCCAC  
 CTCGGAGGGGCCCTGTGGGAGGAAGAACAAGAACACAGGAACGTTTTGGTGATAAAGATTCTAAGAT  
 GCTTGTGGGTGAGACGTTATCCACTTCTCAGGAGCAATATGGAGAATGCGAGGAGAAGTCAAGCAGCTCC  
 CGAGAGCGTTACTGAGGTGGGAGAGCAGCCAGCAGCCCTCAGGCACAAGCAGACGGGAACCCAGACA  
 TCCCAAGGGCAGGTTCACTGAGAGCGCGGATTTGTGGCAGGACAGCTGAAGAAAAGCCCTGAGACCT  
 GAAGTGCCGATTGCCAGAAGGGAATGACAGACTCCGTGCTGTACACCGATGGTGACAGGGCTGTCTTT  
 AGGGCTTACGCGAAAGTAGTGAGGAAGAGGAGGAGCCAGAAAGTCTTCCGTCAAACCTGCCACCCAGTGC  
 TCACAAGCCCAGCTGAAAAGAAAAGAAACCAATTTCTTACCGAAGAAGGAGAGTCCGCAAGCCGGAACA  
 CCAAAATAGCAGTGTCTGACAGAAACGATCTCTGAGACCACTGAGGTGTTAGATGAGCCTTTTGAAGAC  
 TCTGACTCTGAGAGACCAATGCCAAGACTGGAACCTACATTGAGATTGAGGAGGAGGAGGAGGAGGAGG  
 ATGAAAATGAGCTCTTCCCAGAGGGTACTTTTCTTGTGCTTGTCTCACAGGACATCCTTAGTGTCAGGC  
 TTCCTCAAGAGGACGGCGTCTAAAGATGAGGAGGAAGAAGAGGAGGAGTCAAGCAGATGCAGATGACT  
 CCTGTCTAAAGCCAGTATCTCTTGTGAAAAATGTGATGTGAACAGTGTCTTCACTTGAAGCCAGATACCT  
 CTACACCTATGAAAAAGAAAAGGGATGGCCAAAGGCAAGAGCCGAAAACCTATCCACTGGAAGAAAAG  
 GCCTGGGCGAAACCAGGATTTAAATTGAATCAGGACATCATAGCTGTTTCTACACAGGAATGCATAGTT  
 GAGCCCATAGTCCCATTAACCCAGGACGTAACCCAGAACTCAAGAGAGTGAAGAACTTGTGAGGTGA  
 AGGAGGGCCTGGTGAAGAAAGGAAGGAGGAAATGCATACAGAAGCAGACGAAGAGGCCAGGAGGAAGA  
 GGATGCAGCCAGCAGTGACATTAGAGCCATGTCCCATTTGGACAGCAGCAATAGCCCTGATGCAGACCCG  
 AAAGAACCTGAGGCAGAAGAGGAAGAGGAGAAGCCGTTGGACGATCCGAGGCAATCAGAGGAAGAGCCCTC  
 AAGAGCTGGAAGAACAGGAGCAAGAGGAAGAGGACGAGGTGACTGCAGAGGCAAAACCAGAATGAAGACCA  
 TGATGCTGACGATGAGGACGACGGCCACCTGGATTCACTGAAGACAAAAGAGCCAGAGGGGACGGCCGCT  
 AGAGAAGACGGCACAGAGGAGCCCGGCACCCAGGAGTCTTTTTAGATGCAAGCATACAGGACAGCAGGG  
 AGAACGCAAGGATAAAGATGAAACTGAAGCGGATTTCTGAAGAGGAACAGCCTTCCCATGAGGCTTCTGT  
 GGGATCAGAGACCATGCCAGGCTCTGAGGAGGACCATGAGGAGGACTCAAACACTAAGGAAGAAATTAATT  
 GAGCTAAAAGAGGAGGAAGAGATCCCACACAGTGAAGTGGATCTGGAAACTGTACAGGCAAGTGCAGTCTT  
 TGAAGTCAAGAAGAAAGCAGTGAAGGAGCCTACCAGGACTGTGAGGAAAACCTTGTGGCTTGCCCA  
 GACTCTACAGAGTTACACCCACTGACGAGGACCCTCAGATGTCAATGGTTGAAGACTGCCATGCCTCA  
 GAGCATAATAGCCCAATATCCTCCATTCCGTCTCATCCTAGCCAGTCAAGTCCGCTCCGTCAGCAGCCCA  
 GCATGCCTGCCCTGGAGAGTGGCTACACACAGATCAGCCAGAGCAAGGATCCCTGTCCGACCCCTCTAT  
 GCAGAACATGGAGACCAGCCCCATGATGGATGTGCCTTCCGTATCAGACCACTCTCAGCAGGTGGTAGAC  
 AGTGGCTTCACTGACCTGGCAGCATCGAGAGCACCACAGAGAACTATGAGAACCAAGCAGCTATGACT  
 CTACCATGGGACAGTATTTGTGGGAATAACTCTCTCAGAGCAGCTGTCTCTACGGTGGCTGTCTATC  
 TTCAAGCAGCCTCACCCAGAACAGTTGTGTGTCACTCAGCAAATGGCAAGCATGGGCAACAGCTGTAGC  
 ATGCTGCAGCAAAAACAGCGTCCAACCAGCTACCAACTGCAACATCAAGTGCCTCAGACCTGTGTGGTGG  
 AAAGGCCCTCCAGTAACCCAGCAGCCGCCACCACCACCACCCCGCCGCCACCACAGCAGCCGCGAGCC  
 GCAGCCGACGACGAGCCAGCCCCACAGCCTCCCCACCACAGCCGACGACGAGCCGCCCTCCACCCG  
 CAGCAGCAGCCCCAGCCCCACCTCCACCCAGCAGCAGCCCCCTGTGTCGAGTGTAGCATGAACAACA

GCTTCACTGCCGCGCAATGATAATGGAGATACCAGAGTCCGGGGTACTGGGAACATCAGCATCTACGA  
 GAGGATTCCAGGGGATTTTGGCGCTGGCAGCTACTCTCAACCGTCAGCCACCTTCAGTCTCGCCAAGTTG  
 CAGCAGCTGACTAACACCATTATGGACCCTCATGCCATGCCTTACAGTCATTCTCCGGCCGTGACTTCTT  
 ATGCAACCAGTGTCTCTGTCTAATACGGGACTGGCTCAGCTAGCTCCATCTCATCCCTTAGCCGGGAC  
 CCCTCAAGCACAAGCCACCATGACGCCACCCCAAACTTGGCACCTACTACTATGAACCTCACGTACCT  
 CTGCTGCAGTGAACATGTCTGCCACCAACATTGGGATCCCTCACACGCAGAGGTTGCAGGGGCAGATGC  
 AGTCAAGGGGCACATTTCTATCCGTTCCAAGTCTGCACCTTTACCCTCTGCAACTGCACACCAACAGCA  
 GCTCTATGGCCGAGCCCCCAGCAGTTGCCATGCAGGCTGGCCCTCGTGCAGTGGCCGTTTCAGCGTGGC  
 ATGAACATGGGGTTAACTTAATGCCACTCCAGCCTATAATGTCAATCCATGAATATGAACACCTTGA  
 ATGCCATGAACAGCTATCGAATGACACAGCCATGATGAACAGCAGTTACCATAGTAACCTGCCTACAT  
 GAACCAGACAGCACAGTATCCTATGCAGATGCAGATGGGAATGATGGGGAGCCAGGCCTATACCCAGCAG  
 CCTATGCAGCCAAACCTCATGGAACATGATGTACACTGGCCCTCCCATCACAGCTACATGAATGCTG  
 CCGCGTCCCAAGCAGTCACTTAATGGACCTTACATGAGAAGATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001100570
- Insert Size:** 5997 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_001100570.2](#), [NP\\_001094040.1](#)
- RefSeq Size:** 8969 bp
- RefSeq ORF:** 5997 bp
- Locus ID:** 306571
- UniProt ID:** [Q5TKR9](#)
- Cytogenetics:** 16q12.5

**Gene Summary:**

Histone acetyltransferase that acetylates lysine residues in histone H3 and histone H4 (in vitro). Component of the MOZ/MORF complex which has a histone H3 acetyltransferase activity. May act as a transcriptional coactivator for RUNX1 and RUNX2 (By similarity). Acetylates p53/TP53 at 'Lys-120' and 'Lys-382' and controls its transcriptional activity via association with PML (By similarity).[UniProtKB/Swiss-Prot Function]