

## Product datasheet for **SC321949**

### **KAT5 (NM\_006388) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KAT5 (NM_006388) Human Untagged Clone
Tag:	Tag Free
Symbol:	KAT5
Synonyms:	cPLA2; ESA1; HTATIP; HTATIP1; NEDFASB; PLIP; TIP; TIP60; ZC2HC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_006388.2  
 GGGAAGATGGCGGAGGTGGGGGAGATAATCGAGGGCTGCCGCCTACCCGTGCTGCGGCGG  
 AACCCAGGACAACGAAGATGAGTGGCCCTGGCCGAGATCCTGAGCGTGAAGGACATCAGT  
 GGCCGGAAGCTTTTCTACGTCCATTACATTGACTTCAACAACGCTCTGGATGAATGGGTG  
 ACGCATGAGCGGCTGGACCTAAGAAGATCCAGTTCCTCCCAAGAAAGAGGCCAAGACCCCC  
 ACTAAGAACGGACTTCTGGGTCCCGTCTGCTCTCCAGAGAGAGAGGTGCCGGCCTCG  
 GCGCAGGCCAGCGGAAGACCTTGCCAATCCCGGTCCAGATCACACTCCGCTTCAACCTG  
 CCCAAGGAGCGGGAGGCCATTCCCGGTGCGAGCCTGACCAGCCGCTCTCCTCCAGCTCC  
 TGCTGCAGCCCAACCACCGCTCAACGAAACGGAAGGTGGAGGTGGTTTACCAGCAACT  
 CCAGTGCCAGCGAGACAGCCCGGCTCGGTTTTTCCCAGAATGGAGCCGCCGTAGG  
 GCAGTGGCAGCCAGCCAGGACGGAAGCGAAAATCGAATTGTTTGGGCACTGATGAGGAC  
 TCCCAGGACAGCTCTGATGGAATACCGTCAGCACCACGCATGACTGGCAGCCTGGTGTCT  
 GATCGAAGCCACGACGACATCGTACCCGGATGAAGAACATTGAGTGCATTGAGCTGGGC  
 CGGCACCCCTCAAGCCGTGGTACTTCTCCCGTACCCACAGGAACCTACCACATTGCCCT  
 GTCCTCTACCTGTGCGAGTTCTGCCTCAAGTACGGCCGTAGTCTCAAGTGTCTTACGCT  
 CATTTGACCAAGTGTGACCTACGACATCCTCCAGGCAATGAGATTTACCGCAAGGACACC  
 ATCTCCTTCTTTGAGATTGATGGACGTAAGAACAAGAGTTATTCCCAGAACCTGTGTCTT  
 TTGGCCAAGTGTTCCTTGACCATAAAGACTGTACTATGACACAGACCCCTTCTCCTTTC  
 TACGTCATGACAGAGTATGACTGTAAGGGCTTCCACATCGTGGGCTACTTCTCCAAGGAG  
 AAAGAATCAACGGAAGACTACAATGTGGCTGCATCCTAACCTGCCTCCCTACCAGCGC  
 CGGGGCTACGGCAAGCTGCTGATCGAGTTCAGCTATGAACTCTCCAAAGTGAAGGGAAA  
 ACAGGGACCCCTGAGAAGCCCTCTCAGACCTTGGCTCCTATCCTATCGAAGCTACTGG  
 TCCCAGACCATCTGGAGATCCTGATGGGGCTGAAGTCGGAGAGCGGGGAGAGGCCACAG  
 ATCACCATCAATGAGATTAGTAAATCACCAGCATCAAGAAGGAGGATGTCATCTCCA  
 CTGCAAGTACCTCAATCTCATCACTACTACAAGGCCAGTACATCCTCACACTGTCAGAG  
 GACATCGTGGATGGCCATGAGCGGGCCATGCTCAAGCGGCTCCTGCGGATCGACTCCAAG  
 TGTCTGCACTTCACTCCAAGGACTGGAGCAAGAGGGGGAAGTGGTGACCAGACTGCC  
 CACTGCAGTGCCAAGACGGCAGCAGGACTGGGGCTGATAGCCACCCGCCCCACTGCA  
 GCTCCACAAAGCACTTAAGGGAGATGGGGCTGAGGACAGCTCAAAAAGGAGAGGACAG  
 GCCTGGCAGGGGCCACTGGTGGCCAGCACCAAGGCGAGCTCCGGGCTCAGACCAACTCC  
 AAGGTCAGCTGGCCACAGGCCAGCCCTCTCTGAAGCAGGGACCAGAGGAGCCAGGCA  
 GCTGTGTACAGTGAAGGGATCCGGATGGGGGAGCTCTGTACAGAGGGCTGGTGATTGT  
 AAAAAATTTCTTTTGTAAAGTAGAAGTTGGGGTGGGGTGGGTGGCTGCAAAAAATTTCT  
 TGGCTTCTTACCCCTATTGCCCCCGCAATAAATTGTTTCTATATGCCAAAAA  
 AAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_006388

**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).

**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:**

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\\_006388.2](#), [NP\\_006379.2](#)

**RefSeq Size:** 2229 bp

**RefSeq ORF:** 1542 bp

**Locus ID:** 10524

**UniProt ID:** [Q92993](#)

**Cytogenetics:** 11q13.1

**Domains:** CHROMO, MOZ\_SAS

**Protein Families:** Druggable Genome, Transcription Factors

**Gene Summary:** The protein encoded by this gene belongs to the MYST family of histone acetyl transferases (HATs) and was originally isolated as an HIV-1 TAT-interactive protein. HATs play important roles in regulating chromatin remodeling, transcription and other nuclear processes by acetylating histone and nonhistone proteins. This protein is a histone acetylase that has a role in DNA repair and apoptosis and is thought to play an important role in signal transduction. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2), also known as alpha, lacks an alternate in-frame segment, compared to variant 1, resulting in a shorter protein (isoform 2), that has a shorter N-terminus, compared to isoform 1.