

Product datasheet for **SC307491**

KAT5 (NM_182709) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KAT5 (NM_182709) Human Untagged Clone
Tag:	Tag Free
Symbol:	KAT5
Synonyms:	cPLA2; ESA1; HTATIP; HTATIP1; NEDFASB; PLIP; TIP; TIP60; ZC2HC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC307491 representing NM_182709.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGGCGGAGGTGGGGGAGATAATCGAGGGCTGCCGCCTACCCGTGCTGCGGCGGAACAGGACAACGAA
GATGAGTGGCCCTGGCCGAGATCCTGAGCGTGAAGGACATCAGTGGCCGGAAGCTTTTCTACGTCCAT
TACATTGACTTCAACAAACGTCTGGATGAATGGGTGACGCATGAGCGGCTGGACCTAAAGAAGATCCAG
TTCCCCAAGAAAGAGGCCAAGACCCCACTAAGAACGGACTTCTGGGTCCCGTCTGGCTCTCCAGAG
AGAGAGGTGAAACGGAAGGTGGAGGTGGTTTCACCAAGCACTCCAGTGCCAGCGAGACAGCCCCGGCC
TCGGTTTTTCCCAGAATGGAGCCGCCGTAGGGCAGTGGCAGCCAGCCAGGACGGAAGCGAAAATCG
AATTGTTTGGGCACTGATGAGGACTCCAGGACAGCTCTGATGGAATACCGTCAGCACCACGCATGACT
GGCAGCCTGGTGTCTGATCGAAGCCACGACGACATCGTACCCGGATGAAGAACATTGAGTGCATTGAG
CTGGGCCCGCACCGCTCAAGCCGTGGTACTTCTCCCGTACCCACAGGAATCACCACATTGCCTGTC
CTCTACCTGTGCGAGTTCTGCCTCAAGTACGGCCGTAGTCTCAAGTGTCTTCAGCGTCATTTGACCAAG
TGTGACCTACGACATCTCCAGGCAATGAGATTTACCGCAAGGGCACCATCTCCTTCTTTGAGATTGAT
GGACGTAAGAACAAGAGTTATTTCCAGAACCTGTGTCTTTGGCCAAGTGTTCCTTGACCATAAGACA
CTGTACTATGACACAGACCCTTTCTCTTACGTGATGACAGAGTATGACTGTAAGGGCTTCCACATC
GTGGGCTACTTCTCAAGGAGAAAGAATCAACGGAAGACTACAATGTGGCCTGCATCCTAACCTGCCT
CCCTACCAGCGCCGGGGCTACGGCAAGCTGCTGATCGAGTTGAGTATGAAGTCTCCAAAGTGAAGGG
AAACAGGGACCCCTGAGAAGCCCTCTCAGACCTTGGCTCCTATCCTATCGAAGCTACTGGTCCCAG
ACCATCTGGAGATCCTGATGGGGCTGAAGTCGGAGAGCGGGGAGAGGCCACAGATCACCATCAATGAG
ATTAGTAAATCACCAGCATCAAGAAGGAGGATGTCATCTCCACTCTGCAGTACCTCAATCTCATCAAC
TACTACAAGGGCCAGTACATCTCAGAGGACATCGTGGATGGCCATGAGCGGGCCATGCTC
AAGCGGCTCTGCGGATCGACTCCAAGTGTCTGCACTTACTCCCAAGGACTGGAGCAAGAGGGGAAG
TGGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_182709

Insert Size: 1386 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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:	<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_182709.2</u>
RefSeq Size:	2092 bp
RefSeq ORF:	1386 bp
Locus ID:	10524
UniProt ID:	<u>Q92993</u>
Cytogenetics:	11q13.1
Protein Families:	Druggable Genome, Transcription Factors
MW:	53.1 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3), also known as beta, lacks two alternate in-frame segments, compared to variant 1, resulting in a shorter protein (isoform 3), that has a shorter N-terminus, compared to isoform 1.</p>