

## Product datasheet for **RG234280**

### **KAT5 (NM\_001206833) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KAT5 (NM_001206833) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KAT5
Synonyms:	cPLA2; ESA1; HTATIP; HTATIP1; NEDFASB; PLIP; TIP; TIP60; ZC2HC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234280 representing NM\_001206833  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGAGGTGGTGGTCCGGTCCCGGGCGGGCGGAGGAGCCAGGGGAGGTGGTGGTAGAGCCCGAG  
 GCCCCCCAGTAGCCGACCCTGGCGTCGCCTGTCTCCCCAGGGGAGATAATCGAGGGCTGCCGCTACC  
 CGTGCTGCGGCGGAACCAGGACAACGAAGATGAGTGGCCCTGGCCGAGATCCTGAGCGTGAAGGACATC  
 AGTGGCCGGAAGCTTTTCTACGTCCATTACATTGACTTCAACAAACGTCTGGATGAATGGGTGACGCATG  
 AGCGGCTGGACCTAAAGAAGATCCAGTTCGCCAAGAAAGAGGCCAAGACCCCTAAGAACGGACTTCC  
 TGGGTCCCGTCTGGCTCTCCAGAGAGAGAGGTGAAACGGAAGGTGGAGGTGGTTTACCAGCAACTCCA  
 GTGCCAGCGAGACAGCCCGGCTCGGTTTTTCCCAGAATGGAGCCCGCCGTAGGGCAGTGGCAGCCC  
 AGCCAGGACGGAAGCGAAAATCGAATTGTTTGGGCACTGATGAGGACTCCAGGACAGCTCTGATGAAT  
 ACCGTGACACCACGCATGACTGGCAGCCTGGTGTCTGATCGAAGCCACGACGACATCGTACCCGGATG  
 AAGAACATTGAGTGCATTGAGCTGGGCCGACCCCTCAAGCCGTGGTACTTCTCCCCGTACCCACAGG  
 AACTACCCACATTGCCTGTCTCTACTGTGCGAGTTCTGCCTCAAGTACGGCCGTAGTCTCAAGTGTCT  
 TCAGCGTCATTTGACCAAGTGTGACCTACGACATCCTCCAGGCAATGAGATTTACCGCAAGGGCACCATC  
 TCCTTCTTTGAGATTGATGGACGTAAGAACAAGAGTTATCCCAGAACCTGTGTCTTTGGCCAAGTGT  
 TCCTTGACCATAAGACTGTACTATGACACAGACCCTTCTCTTCTACGTCATGACAGAGTATGACTG  
 TAAGGGCTCCACATCGTGGGCTACTTCTCAAGGAGAAAAGATCAACGGAAGACTACAATGTGGCTGC  
 ATCCTAACCTGCCTCCCTACCAGCGCCGGGCTACGGCAAGCTGCTGATCGAGTTCAGCTATGAACCT  
 CCAAAGTGAAGGAAAACAGGGACCCCTGAGAAGCCCTCTCAGACCTTGGCCTCCTATCCTATCGAAG  
 CTAAGTGGTCCCAGACCATCCTGGAGATCCTGATGGGGCTGAAGTCGGAGAGCGGGGAGAGGCCACAGATC  
 ACCATCAATGAGATTAGTAAATCACCAGCATCAAGAAGGAGGATGTCATCTCCACTCTGCAGTACCTCA  
 ATCTCATCAACTACTACAAGGGCCAGTACATCCTCACACTGTGAGGACATCGTGGATGGCCATGAGCG  
 GGCCATGCTCAAGCGGCTCCTGCGGATCGACTCCAAGTGTCTGCCTTCACTCCCAAGGACTGGAGCAAG  
 AGGGGGAAGTGG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234280 representing NM\_001206833  
 Red=Cloning site Green=Tags(s)

MAEVSVPVPGAGRREPGEVGRARGPPVADPGVALSPQGEIEGCRPLVLRNQNDEWPLAEILSVKDI  
 SGRKLFYVHYIDFNKRLDEWVTHEERLDLKKIQFPKKEAKTPTKNGLPGSRPGSPEREVKRKVEVSPATP  
 VPSETAPASVFPQNGAARRAVAAQPRKRKSNCLGTDEDSQDSSDGIPSAAPRMTGSLVSDRSHDDIVTRM  
 KNIECIELGRHLKPWFSPYPQELTTLPLVLYLCEFLKYGRSLKCLQRHLTKCDLRHPPGNEIYRKGTI  
 SFFEIDGRKNKSYSQNLCLLAKCFLDHKTLYYDTPFLFYVMTEYDCKGFHIVGYFSKEKESTEDYNVAC  
 ILTLPPYQRRGYGKLLIEFSYELSKVEGKTGTPEKPLSDLGLLSYRSYWSQTILEILMGLKSEGERPQI  
 TINEISEITSIKKEDVISTLQYLNLYNYKQYILTLSEDIVDGERAMLRLLRIDSCLHFTPKDWSK  
 RGKW

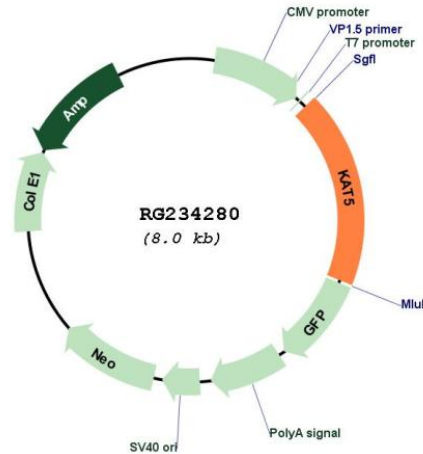
**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul



## Plasmid Map:



ACCN: NM\_001206833

ORF Size: 1482 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:** [NM\\_001206833.2](#)

**RefSeq Size:** 2191 bp

**RefSeq ORF:** 1485 bp

**Locus ID:** 10524

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

**Cytogenetics:** 11q13.1

**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]