

Product datasheet for **RG209059**

KAT5 (NM_006388) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KAT5 (NM_006388) 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:

>RG209059 representing NM_006388
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAGGTGGGGGAGATAATCGAGGGCTGCCGCTACCCGTGCTGCGCGGAACAGGACAACGAAG
 ATGAGTGGCCCTGGCCGAGATCCTGAGCGTGAAGGACATCAGTGGCCGGAAGCTTTTCTACGTCCATTA
 CATTGACTTCAACAAACGTCTGGATGAATGGGTGACGCATGAGCGGCTGGACCTAAAGAAGATCCAGTTC
 CCCAAGAAAGAGGCCAAGACCCCACTAAGAACGGACTTCTGGGTCCCCTCTGGCTCTCCAGAGAGAG
 AGGTGCCGGCCTCGGCGCAGGCCAGCGGAAGACCTTGCCAAATCCCGTCCAGATCACACTCCGCTTCAA
 CCTGCCAAGGAGCGGGAGGCCATTCCCGGTGGCAGCCTGACCAGCCGCTCTCTCCAGCTCTGCCTG
 CAGCCCAACCACCGCTCAACGAAACGGAAGGTGGAGTGGTTTACCAGCACTCCAGTCCAGCGGAGAG
 CAGCCCCGGCCTCGGTTTTTCCCAGAATGGAGCCCGCTAGGGCAGTGGCAGCCAGCCAGGACGGAA
 GCGAAAATCGAATTGTTGGGCACTGATGAGGACTCCCAGGACAGCTCTGATGGAATACCGTCCAGCACA
 CGCATGACTGGCAGCCTGGTGTCTGATCGAAGCCACGACGACATCGTACCCGGATGAAGAACATTGAGT
 GCATTGAGCTGGGCCGGCACCGCTCAAGCCGTGGTACTTCTCCCGTACCCACAGGAACCTACCACATT
 GCCTGTCTCTACCTGTGCGAGTTCTGCCTCAAGTACGGCCGTAGTCTCAAGTGTCTTACAGGTCATTTG
 ACCAAGTGTGACCTACGACATCTCCAGGCAATGAGATTTACCGCAAGGGCACCATCTCCTTCTTTGAGA
 TTGATGGACGTAAGAACAAGAGTTATCCCAGAACCTGTGTCTTTGGCCAAGTGTTCCTTGACCATAA
 GACTGTACTATGACACAGACCCTTCTCTTCTACGTCATGACAGAGTATGACTGTAAGGGCTTCCAC
 ATCGTGGGCTACTTCTCAAGGAGAAAGAATCAACGGAAGACTACAATGTGGCCTGCATCCTAACCTGC
 CTCCCTACCAGCGCCGGGCTACGGCAAGCTGCTGATCGAGTTCAGCTATGAACTCTCAAAGTGGAGG
 GAAAACAGGGACCCTGAGAAGCCCTCTCAGACCTTGGCCTCCTATCCTATCGAAGCTACTGGTCCCAG
 ACCATCTGGAGATCCTGATGGGCTGAAGTGGAGAGCGGGGAGAGGCCACAGATCACCATCAATGAGA
 TTAGTGAATCACAGCATCAAGAAGGAGGATGTCATCTCCACTGTCAGTACCTCAATCTCATCAACTA
 CTACAAGGGCCAGTACATCCTCACACTGTCAGAGGACATCGTGGATGGCCATGAGCGGGCCATGCTCAAG
 CGGCTCTGCGGATCGACTCCAAGTGTCTGCACCTCACTCCAAGGACTGGAGCAAGAGGGGAAGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG209059 representing NM_006388
 Red=Cloning site Green=Tags(s)

MAEVEGIIIEGCRPLVLRNQNEDNEWPLAEILSVKDISGRKLFYVHYIDFNKRLDEWVTHEERLDLKKIQF
 PKKEAKTPTKNGLPGRPGSPEREVPSASAQASGKTLPIPVQITLRFNLPKEREAIIPGGEPDQPLSSSSCL
 QPNHRSTKRKVEVSPATPVSETAPASVFPQNGAARRAVAAQPGRKRKSNCLGTDEDSQDSSDGIPSAP
 RMTGSLVSDRSHDDIVTRMKNIECIELGRHRLKPWFYSPYPQELTTLPVLYLCEFLKYGRSLKCLQRHL
 TKCDLRHPPGNEIYRKGTISFFEIDGRKNKSYSQNLCLLAKCFLDHKTLYYDTPFLFYVMTEYDCKGFH
 IVGYFSKEKESTEDYNVACILTLPPYQRRYGKLLIEFSYELSKVEGKTGTPEKPLSDLGLLSYRSYWSQ
 TILEILMGLKSESGERPQITINEISEITSIKKEDVISTLQYLNLIYNYKGYIILTLESDIVDGERAMLK
 RLLRIDSKCLHFTPKDWSKRGKW

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_006388

ORF Size: 1539 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_006388.4](#)

RefSeq Size: 2229 bp

RefSeq ORF: 1542 bp

Locus ID: 10524

UniProt ID: [Q92993](#)

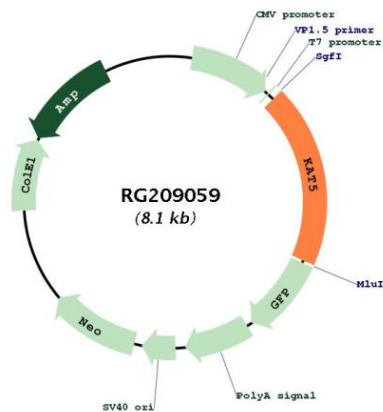
Cytogenetics: 11q13.1

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]

Product images:



Circular map for RG209059