

Product datasheet for **RG210591**

KAT5 (NM_182709) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KAT5 (NM_182709) 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:

>RG210591 representing NM_182709
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAGGTGGGGGAGATAATCGAGGGCTGCCGCCTACCCGTGCTGCGGCGGAACCAGGACAACGAAG
 ATGAGTGGCCCTGGCCGAGATCCTGAGCGTGAAGGACATCAGTGGCCGGAAGCTTTTCTACGTCCATTA
 CATTGACTTCAACAAACGTCTGGATGAATGGGTGACGCATGAGCGGCTGGACCTAAAGAAGATCCAGTTC
 CCCAAGAAAGAGGCCAAGACCCCACTAAGAACGGACTTCTGGGTCCCCTCCTGGCTCTCCAGAGAGAG
 AGGTGAAACGGAAGGTGGAGGTGGTTTACCAGCAACTCCAGTGCCAGCGAGACAGCCCGGCCTCGGT
 TTTTCCCAGAATGGAGCCGCCGTAGGGCAGTGGCAGCCAGCCAGGACGGAAGCGAAAATCGAATTGT
 TTGGGCACTGATGAGGACTCCAGGACAGCTCTGATGGAATACCGTCAGCACCACGCATGACTGGCAGCC
 TGGTGTCTGATCGAAGCCACGACGACATCGTACCCGGATGAAGAACATTGAGTGCATTGAGCTGGCCCG
 GCACCCCTCAAGCCGTGACTTCTCCCCTACCCACAGGAATCACCACATTGCTGTCTCTACCTG
 TGGGAGTTCTGCCTCAAGTACGGCCGTAGTCTCAAGTGTCTTACGCGTCAATTTGACCAAGTGTGACCTAC
 GACATCTCCAGGCAATGAGATTTACCGCAAGGGCACCATCTCCTTCTTTGAGATTGATGGACGTAAGAA
 CAAGAGTTATCCAGAACCTGTGTCTTTTGGCCAAGTGTTCCTTGACCATAAGACACTGTAATGAC
 ACAGACCCCTTCTCTTACGTCATGACAGAGTATGACTGTAAGGGCTTCCACATCGTGGGCTACTTCT
 CCAAGGAGAAAGAATCAACGGAAGACTACAATGTGGCCTGCATCCTAACCTGCCTCCCTACCAGCGCCG
 GGGCTACGGCAAGCTGCTGATCGAGTTCAGCTATGAATCTCAAAGTGAAGGGAAAACAGGGACCCCT
 GAGAAGCCCTCTCAGACCTTGGCCTCTATCCTATCGAAGCTACTGGTCCCAGACCATCCTGGAGATCC
 TGATGGGGCTGAAGTCGAGAGCGGGGAGAGGCCACAGATCACCATCAATGAGATTAGTGAATCACCAG
 CATCAAGAAGGAGGATGTCATCTCACTCTGCAGTACCTCAATCTCATCAACTACTACAAGGGCCAGTAC
 ATCCTCACACTGTGAGAGGACATCGTGGATGGCCATGAGCGGGCCATGCTCAAGCGGCTCCTGCGGATCG
 ACTCAAGTGTCTGCACTTCACTCCAAGGACTGGAGCAAGAGGGGGAAGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG210591 representing NM_182709
 Red=Cloning site Green=Tags(s)

MAEVGEIIEGCRLPVLRNQNEDWPLAEILSVKDISGRKLFYVHYIDFNKRLDEWVTHEERLDLKKIQF
 PKKEAKPTKNGLPGRPGSPEREVKKRKEVVPATPVPSETAPASVFPQNGAARRAVAAQGRKRKSNK
 LGTDEDSQDSSDGIPASPRMTGSLVSDRSHDDIVTRMKNIEICIELGRHRLKPWFSPYPQELTTLPLVYL
 CEFCLKYGRSLKCLRHLTKCDLRHPPGNEIYRKGTSFFFEIDGRKNKSYSQNLCLLAKCFLDHKTLYYD
 TDPFLFYVMTEYDCKGFHIVGYFSKEKESTEDYNAVACILTLPPYQRRGYGKLLIEFSYELSKVEGTGTP
 EKPLSDLGLLSYRSYWSQTILEILMGLKSESGERPQITINEISEITSIKKEDVISTLQYLNINLYYKQY
 ILTLEDIVDGHERRAMLKRLLRIDSKCLHFTPKDWSKRGKW

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_182709

ORF Size: 1383 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 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).

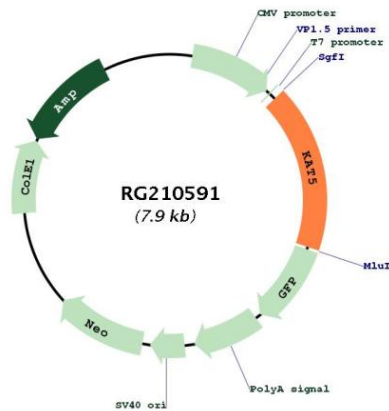
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_182709.3](#)

RefSeq Size: 2075 bp
RefSeq ORF: 1386 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]

Product images:



Circular map for RG210591