

Product datasheet for **RG209821**

KAT2B (NM_003884) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KAT2B (NM_003884) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KAT2B
Synonyms:	CAF; P/CAF; PCAF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209821 representing NM_003884
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGAGGCTGGCGGGCCGGCCGGCGGCTGCGGGCAGGAGCCGGGGCAGGGCCGGCCCGGG
 CGCTGCCCGCAGCCTGCGGCGCTTCCGCCCGGCCCGCAGGGCTCCCCCTGCGCCGCTGCCGCCG
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 TCGGAGTGTACTCCGCTGCAAGCCGAGGAGTCTTGTAAATGTAATGGCTGGAAAAACCCTAACCCCTC
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 GAAATCTTCTCAGTAAATTAAGGAAGCTGGATTAATTGACAAG

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG209821 representing NM_003884
 Red=Cloning site Green=Tags(s)

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MSEAGGAGPGGCGAGAGAGAGPGALPPQPAALPPAPPQGSPCAAAAGGSGACGPATAVAAAGTAEGPGGG
GSARIAVKKAQLRSAPRAKLEKLGVYSACKAEESCCKNGWKNPNPSPTPPRADLQQIIVSLTESCRSCS
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TKYVGYIKDYEGATLMGCELNPRIPYTEFSV I I K K Q K E I I K K L I E R K Q A Q I R K V Y P G L S C F K D G V R Q I P I
ESIPGIRETGWKP SGKEKSKEPRDPDQLYSTLKSILQQVKSHQSAWPFMEPVKRTEAPGYEYVIRFPMDL
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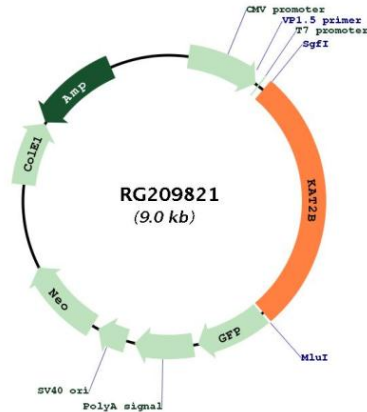
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	NM_003884.5
RefSeq Size:	4838 bp
RefSeq ORF:	2499 bp
Locus ID:	8850
UniProt ID:	Q92831
Cytogenetics:	3p24.3
Domains:	Acetyltransf, BROMO
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Notch signaling pathway

Gene Summary:

CBP and p300 are large nuclear proteins that bind to many sequence-specific factors involved in cell growth and/or differentiation, including c-jun and the adenoviral oncoprotein E1A. The protein encoded by this gene associates with p300/CBP. It has in vitro and in vivo binding activity with CBP and p300, and competes with E1A for binding sites in p300/CBP. It has histone acetyl transferase activity with core histones and nucleosome core particles, indicating that this protein plays a direct role in transcriptional regulation. [provided by RefSeq, Jul 2008]

Product images:


Circular map for RG209821