

Product datasheet for **RG219702**

KAT6B (NM_012330) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KAT6B (NM_012330) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KAT6B
Synonyms:	GTPTS; MORF; MOZ2; MYST4; qkf; querkopf; ZC2HC6B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219702 representing NM_012330 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTAAAACCTTGCAAACCCACTTTATACAGAGTGGATTCTTGAAGCTATACAGAAAATAAAAAAGCAAA
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219702 representing NM_012330
 Red=Cloning site Green=Tags(s)

MVKLANPLYTEWILEAIQKIKKQKQRPSEERICHAVSTSHGLDKKTVSEQLLELVQDGSVLKVTNKGSLAS
 YKDPDNPGRFSSVKPGTFPKSAKGSRGSCNDRNVNDWNKLLRRAIEGLEEPNGSSLKNIKYLRSQSDLT
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 CGWFHPPANEIYRRKDLVFEVDGNMSKIYCNLCLLAKLFLDHKTLYYDVEPFLFYVLTKNDEKGCHELV
 GYLSKEKLCQKYNVSCIMIMPQHQRFGRFLIDFSYLLSRREGQAGSPEKPLSDLGRLSYLAYWKSVI
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 QPYAQQPMQTPPHGNMMYTAPGHHGYMNTGMSKQSLNGSYMRR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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_012330.1</u> , <u>NP_036462.1</u>
RefSeq Size:	6537 bp
RefSeq ORF:	6222 bp
Locus ID:	23522
UniProt ID:	<u>Q8WYB5</u>
Cytogenetics:	10q22.2
Domains:	PHD, MOZ_SAS, linker_histone
Protein Families:	Druggable Genome
Gene Summary:	The protein encoded by this gene is a histone acetyltransferase and component of the MOZ/MORF protein complex. In addition to its acetyltransferase activity, the encoded protein has transcriptional activation activity in its N-terminal end and transcriptional repression activity in its C-terminal end. This protein is necessary for RUNX2-dependent transcriptional activation and could be involved in brain development. Mutations have been found in patients with genitopatellar syndrome. A translocation of this gene and the CREBBP gene results in acute myeloid leukemias. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2012]