

## Product datasheet for **MR210784L4V**

### **Kat2b (NM\_020005) Mouse Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Kat2b (NM_020005) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Kat2b
Synonyms:	A930006P13Rik; AI461839; AW536563; p/CAF; Pcaf
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_020005
ORF Size:	2439 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR210784).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_020005.3</a>
RefSeq Size:	4309 bp
RefSeq ORF:	2442 bp
Locus ID:	18519
UniProt ID:	<a href="#">Q9JHD1</a>
Cytogenetics:	17 27.86 cM



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**Gene Summary:**

Functions as a histone acetyltransferase (HAT) to promote transcriptional activation. Has significant histone acetyltransferase activity with core histones (H3 and H4), and also with nucleosome core particles. Also acetylates non-histone proteins, such as ACLY, PLK4 and TBX5. Inhibits cell-cycle progression and counteracts the mitogenic activity of the adenoviral oncoprotein E1A. Acts as a circadian transcriptional coactivator which enhances the activity of the circadian transcriptional activators: NPAS2-ARNTL/BMAL1 and CLOCK-ARNTL/BMAL1 heterodimers. Involved in heart and limb development by mediating acetylation of TBX5, acetylation regulating nucleocytoplasmic shuttling of TBX5. Acts as a negative regulator of centrosome amplification by mediating acetylation of PLK4. Also acetylates spermidine (By similarity).[UniProtKB/Swiss-Prot Function]