

## Product datasheet for **MG208357**

### **Kat7 (NM\_177619) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kat7 (NM_177619) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kat7
Synonyms:	Hbo1; Hboa; Myst2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208357 representing NM\_177619  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCCGAAGGAAGAGAAATGCAGGCAGTAGTTCAGATGGAACCGAAGATTCCGATTTTCTACAGATC  
 TCGAGCATACAGACAGTTCAGAGAGTGTGGCACTCGCGCCGATCTGCCCGAGTCACCCGCTCCTCAGC  
 CAGGCTAAGCCAGAGTTCCTCAAGAACTAAAAATACAGCTGATCATGATGAGTCACCACCTCGAACTCCA  
 ACCGGAATGCACCTTCTCTGAGTCTGACATAGACATCTCCAGCCCAACGTGTCTCATGATGAGAGCA  
 TTGCCAAGGACATGTCCCTGAAGGACTCAGGCAGTGTCTCTCACCGTCCCAAGCGACGTGATTTCA  
 CGAAAGCTACAATTTCAACATGAAGTGTCTACGCCGGGTGCAACTCTCTAGGACATCTTACAGGAAAG  
 CACGAGAGACATTTCTCCATCTCAGGATGCCCGTGTATCATAACCTCTCAGCTGACGAATGCAAGGCAC  
 CAACAGAGAGACAGCTGCGGTATAAGGAAAAGGTGGCTGAACTCAGGAAGAAAAGAAATCTGGACTGAG  
 CAAAGAGCAGAAGGAGAAATACATGGAACACAGACAGACCTATGGGAACACTCGGGAGCCTCTTTGGAA  
 AACCTGACAAGTGAATATGACTTAGATCTTTCCGAAGAGCACAAGCCCGGGCTTCTGAGGATTTGGAGA  
 AGTTAAGGCTTCAAGCCAAATCACAGAGGGAAGCAACATGATTAACAATTTGCTTTTGGCCGCTATGA  
 ACTGGACACTTGGTACCACTCTCCCTATCTCTGAGGAATATGCGAGGCTGGGACGTCTCTACATGTGTGA  
 TTCTGCTTAAAGTACATGAAGAGCCAGACAATCTCCGCCGACACATGGCCAAGTGTGTGTGAAACACC  
 CCCCTGGTGTAGATTTATCGCAAAGGCTCCATCTCTGTGTTTGAAGTAGACGGCAAGAAGAACAAGAT  
 CTACTGCCAAAACCTCTGCCTTTTGGCAAAGCTTTTCTGGACCATAAGACGCTATACTATGATGTAGAA  
 CCTTTCTGTTCTACGTTATGACAGAAGCGGACAATACTGGTGTCTATCTGATTGGATATTTTCTAAGG  
 AGAAGAATTCATTTCTCAACTATAATGTCTCGTGCATCCTCACCATGCCTCAGTACATCGGACAGGCTC  
 CGGGAAGATGCTGATCGATTTTCAGTTATTTACTTTCAAAGTAGAAGAGAAAGTCGGCTCTCCAGAGCGC  
 CCACTGTCAGACCTGGGGCTCATAAGCTACCGCAGCTACTGGAAGGAGGTACTGCTCCGATACCTGCACA  
 ACTTCCAGGGCAAGGAGATCTCCATCAAAGAAATTAGCCAGGAAACAGCTGTGAATCCCCTGGACATTGT  
 CAGCACTCTGCAAGCCCTCAGATGCTCAAGTATTGAAAGGCAAGCACCTAGTTTTAAAGAGACAGGAC  
 CTGATAGATGAGTGGATAGCCAAAGAGGCCAAAAGGTCCAACCTCAACAAAACCATGGATCCAAGCTGCT  
 TAAATGGACCCCTCCCAAGGGCACT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208357 representing NM\_177619  
 Red=Cloning site Green=Tags(s)

MPRRKRNAGSSSDGTEDSDFSTDLEHTDSESDGTSRRSARVTRSSARLSQSSQETKNTADHDESPRPT  
 TGNAPSSSDIDISSPNVSHDESIKDMSLKDSGSDLSHRPKRRRFHESYNFNMKPTPGCNLSGLHTGK  
 HERHFSISGCPLYHNLSADECKAPTERQLRYKEKVAELRKRNSGLSKEQKEKYMHRQTYGNTREPLLE  
 NLTSEYDLDFRRAQARASEDEKLRLQGQITEGSMIKTIAFGRYELDTWYHSPYPEEYARLGRLYMCE  
 FCLKYMKSQTLRRHMAKCVWKHPPGDEIYRKGSISVFEVDGKKNKIYQNLCLLAKLFLDHKTLYYDVE  
 PFLFYVMTEADNTGCHLIGYFSKEKNSFLNYNVSCILTMPQYMRQYGKMLIDFSYLLSKVEEKVGSPEP  
 PLSDLGLISYRSYWKVLLRYLHNFQGEISIKEISQETAVNPVDIVSTLQALQMLKYWKGKHLVLKRQD  
 LIDEWIAKEAKRSNSNKTMDPSCLKWTPPKGT

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_177619
<b>ORF Size:</b>	1566 bp
<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_177619.3</a>
<b>RefSeq Size:</b>	3262 bp
<b>RefSeq ORF:</b>	1569 bp
<b>Locus ID:</b>	217127
<b>UniProt ID:</b>	<a href="#">Q5SVQ0</a>
<b>Cytogenetics:</b>	11 D
<b>Gene Summary:</b>	Component of the HBO1 complex which has a histone H4-specific acetyltransferase activity, a reduced activity toward histone H3 and is responsible for the bulk of histone H4 acetylation in vivo. Involved in H3K14 (histone H3 lysine 14) acetylation and cell proliferation (PubMed:23319590). Through chromatin acetylation it may regulate DNA replication and act as a coactivator of TP53-dependent transcription. Acts as a coactivator of the licensing factor CDT1. Specifically represses AR-mediated transcription.[UniProtKB/Swiss-Prot Function]