

## Product datasheet for **MR225422L4V**

### Kat7 (NM\_001195004) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Kat7 (NM_001195004) Mouse Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | Kat7   |
| Synonyms:                 | Hbo1; Hboa; Myst2  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_001195004   |
| ORF Size:                 | 1743 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR225422).   |
| 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_001195004.1</a> , <a href="#">NP_001181933.1</a>  |
| RefSeq Size:              | 5876 bp  |
| RefSeq ORF:               | 1746 bp  |
| Locus ID:                 | 217127   |
| UniProt ID:               | <a href="#">Q5SVQ0</a>   |
| Cytogenetics:             | 11 D   |



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**Gene Summary:**

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]