

## Product datasheet for RN201575

### Hat1 (NM\_001009657) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hat1 (NM_001009657) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Hat1
Synonyms:	MGC105743
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN201575 representing NM_001009657 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGGGGTTTGGTGAATGGAGAAATTTCTAGTGAATATAAGAGTGGGTGGAGAAGAACTGGCTG  
AGTACAAGTGTAACACCAACACAGCAATCGAGCTGAAACTGGTTCGTTTTCTGAAGATCTTGAGAATGA  
CATTAGAAGTTTCTTTCCTGAATATACCCATCAACTCTTTGGGGATGATGAAACTGCTTTTGGTTACAAG  
GGCCTGAAGATCTTGTGTACTATATTGCTGGTAGCCTGTCAACTATGTTCCGTGTTGAATATGCATCTA  
AAGTTGATGAGAAGTTTATTGTTGGAGGCAGATGACGTTGAAGGCAAAATCAGACAAATCATTCCACC  
TGGGTTTTGCACAAACAAATGATTTTCTTTCCTTGCTGGAAAAGGAAGCTGATTTCAAGCCATTTGGA  
ACCCTCTCCATACATACTCAGTTCCTAGTCCAACAGGAGGAGAAAACCTTTACTTTTCAGATATAAAGG  
CTGACATGACATGTAGAGGCTTTCGAGAATATCATGAAAGGCTTCAGACCTTTTGTGTTGTTTATTGA  
AACTGCTAGCTTATTGACGTGGATGATGAAAGATGGCACTACTTCTAGTATTTGAGAAGTATAATAAG  
GATGGAGCTACGCTCTTTCGACCGTAGGCTACATGACAGTCTATAATTACTATGTGTACCCAGACAAAA  
CCCGGCCACGTGTAAGTCAGATGCTGACTGACTCCATTTCAAGGTCAGGGCCATGGTGCTCAACTTCT  
TGAACAGTTTCATAGATACTACATTGCATCTTCTCAGTTCCTGATATTACAGCGGAAGATCCATCCAAA  
AGCTATGTGAAACTAAGAGACTTTGTAATTGTGAAACTTTGTCAAGATTTGCCCTGTTTCTCCCGGAAAA  
GATTACTGCAAGGATTCAATGAAGATATGGCGATACAGGCACAGCAGAAGTTCAAATAAATAAGCAACA  
TGCTAGACGGTTTATGAAATTCCTGACTGCTGGTGACTGACATGAGTGACGCGGAGCAGTGCAGAAGC  
TACAGACTGGATATTAAGGAGACTAATCAGCCCTTACAAGAAAAAGCAGACAGATCTTGCCAAGATGA  
GGAAATGCCTGAGACCAGAAGAGCTGACGAATCAGATGAACCAGATAGAGATAAGTGTGCAGCAGCAGCA  
GCTGGAGGAGCAGTTTCAGGAGCTGGTGGAGGACTACCGCGTGTATTGAGCGCCTTGTCAAGAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001009657
<b>Insert Size:</b>	1260 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">NM_001009657.1</a></u> , <u><a href="#">NP_001009657.1</a></u>
<b>RefSeq Size:</b>	1500 bp
<b>RefSeq ORF:</b>	1260 bp
<b>Locus ID:</b>	296501
<b>UniProt ID:</b>	<u><a href="#">Q5M939</a></u>
<b>Cytogenetics:</b>	3q23
<b>Gene Summary:</b>	Acetylates soluble but not nucleosomal histone H4 at 'Lys-5' (H4K5ac) and 'Lys-12' (H4K12ac) and, to a lesser extent, acetylates histone H2A at 'Lys-5' (H2AK5ac). Has intrinsic substrate specificity that modifies lysine in recognition sequence GXGKXG. May be involved in nucleosome assembly during DNA replication and repair as part of the histone H3.1 and H3.3 complexes.[UniProtKB/Swiss-Prot Function]