

Product datasheet for **SC324037**

HAT1 (NM_001033085) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HAT1 (NM_001033085) Human Untagged Clone
Tag:	Tag Free
Symbol:	HAT1
Synonyms:	histone acetyltransferase 1; KAT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:	<p>>OriGene sequence for NM_001033085.1 GAGCGCGGGTTGATTCGTCCTTCCTCAGCCGCGGGTATCGTAGCTCGGAAATGGCGG GATTTGGTGTATGGAGAAATTTTGGTAGAATAAAGAGTGCAGTGGAGAAGAACTGG CAGAGTACAAATGTAACACCAACACAGCAATTGAACTAAAATTAGTGAACTGCTTTTGG TTACAAGGTCTAAAGATCCTGTATACTATATTGCTGGTAGCCTGTCAACAATGTTCCG TGTTGAATATGCATCTAAAGTTGATGAGAACTTTGACTGTGTAGAGGCAGATGATGTTGA GGGCAAAATTAGACAAATCATTCCACCTGGATTTTGCACAAACACGAATGATTTCCCTTTC TTTACTGGAAAAGGAAAGTTGATTTCAAGCCATTGGAACCTTACTTCATACCTACTCAGT TCTCAGTCCAACAGGAGGAGAAAACCTTTACCTTTCAGATATATAAGGCTGACATGACATG TAGAGGCTTTCGAGAATATCATGAAAGGCTTCAGACCTTTTTGATGTGGTTTATTGAAAC TGCTAGCTTTATTGACGTGGATGATGAAAGATGGCACTACTTTCTAGTATTTGAGAAGTA TAATAAGGATGGAGCTACGCTCTTTCGACCGTAGGCTACATGACAGTCTATAATTACTA TGTGTACCCAGACAAAACCCGGCCACGTGTAAGTCAGATGCTGATTTTGACTCCATTTCA AGGTCAAGCCATGGTGTCAACTTCTTGAACAGTTCATAGATACTACACTGAATTTCC TACAGTTCTTGATATTACAGCGGAAGATCCATCCAAAAGCTATGTGAAATTACGAGACTT TGTGCTTGTGAAGCTTTGTCAAGATTTGCCTGTTTTTCCGGGAAAAATTAATGCAAGG ATTC AATGAAGATATGGCGATAGAGGCACAACAGAAGTTCAAAATAAATAAGCAACACGC TAGAAGGGTTTATGAAATTTTCGACTACTGGTAACTGACATGAGTGTGCCGAACAATA CAGAAGCTACAGACTGGATATTAAGAAGAACTAATTAGCCCATATAAGAAAAAGCAGAG AGATCTTGCTAAGATGAGAAAATGTCTCAGACCAGAAGAACTGACAAACCAGATGAACCA AATAGAAAATAGCATGCAACATGAACAGCTGGAAGAGAGTTTTTCAGGAACTAGTGAAGA TTACCGGCGTGTATTGAACGACTTGCTCAAGAGTAAAGATTACTGCTCTGTACAGGA AGCTTGCAAATTTCTGTACAATGTGCTGTGAAAAATCTGATGACTTTAATTTTAAAAAT TTGTGACATTTTCTTATACTAAAAGTTATCTATCTTTAGTTGAATATTTCTTTTGAGAG AGATTGTATATTTTAAAATACTGTTTAGAGTTTATGAGCATATATTGCATTTAAAGAAAG ATAAAGCTTCTGAAATACTACTGCAATTGCTTCCCTTCTTAAACAGTATAATAAATGCTT AGTTGTGATATGTTAATGTGTGATGATGATTCTTAAATACTTACAATAAACCTCATTCT TAAATACTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p>
Restriction Sites:	ECORI-NOT
ACCN:	NM_001033085
OTI Disclaimer:	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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:

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: [NM_001033085.1](#), [NP_001028257.1](#)

RefSeq Size: 1596 bp

RefSeq ORF: 1005 bp

Locus ID: 8520

Cytogenetics: 2q31.1

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene is a type B histone acetyltransferase (HAT) that is involved in the rapid acetylation of newly synthesized cytoplasmic histones, which are in turn imported into the nucleus for de novo deposition onto nascent DNA chains. Histone acetylation, particularly of histone H4, plays an important role in replication-dependent chromatin assembly. Specifically, this HAT can acetylate soluble but not nucleosomal histone H4 at lysines 5 and 12, and to a lesser degree, histone H2A at lysine 5. Alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, Jun 2009]
Transcript Variant: This variant (2) lacks an alternate segment and uses a downstream start codon, compared to variant 1. Isoform b has a shorter N-terminus, compared to isoform a.