

Product datasheet for MR206588

Hat1 (NM_026115) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hat1 (NM_026115) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hat1
Synonyms:	2410071B14Rik; AA536933; Hat-1; KAT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206588 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCCTGGAGAAATTTCTGGTGGAGTATAAGAGTGCCGTGGAGAAGAACTAGCAGAGTACAAGT
GTAACACCAACACAGCAATCGAGCTGAACTAGTTCGTTTTCTGAAGATCTTGAGAATGACATTAGAAC
TTTCTTTCTGAATATACCCATCAGCTCTTTGGGGATGATGAACTGCTTCGGTTACAAGGCCTGAAG
ATCTTGCTGTACTATATTGCTGGTAGCCTGTCAACTGTTCCGTGTTGAATATTCATCTAAAGTTGATG
AGAACTTTGACTGTGTGGAGGCAGATGATGTTGAAGGCAAAATCAGACAAATCATTCCACCTGGGTTTTG
CACAAACACAAATGATTTTCTTTCTTGTGAAAAGGAACTAATTTCAAGCCTTTTGGAAACCCTCCTC
CATACATACACAGTTCCTAGTCAGACAGGAGGTGAAACCTTTACTTTCCAGATCCACAAGGCTGACATGA
CATGTAGAGGCTTTTCGAGAATATCATGAAAGGCTTCAGACCTTTTTGATGTGGTTTATTGAAACTGCTAG
CTTTATTGACGTGGATGATGAAAGATGGCACTACTTTCTAGTATTTGAGAAGTATAATAAGGATGGAGCT
ACGCTTTTTCGACCGTAGGCTACATGACAGTCTATAATTACTATGTGTACCCAGACAAAACCCGGCCAC
GTGTAAGTCAGATGCTGATACTGACTCCATTTCAAGGTCAGGGCCACGGTGTCAACTTCTTGAACAGT
TCATAGATACTACATTTTCATTTCTACAGTTCTTGATATTACAGCGGAAGATCCGTCCAGAAGCTATTTG
AACTAAGAGACTTTGTGCTTGTGAAGTTTGTCAATTTTTCAGTTTCTCCCGGAAAGATTACTG
AAGGATTCAGTGAAGATATGGCAATACAGGCACAGCAAAATGTTCAAATAAATAAGCAACATGCTAGAAG
GGTTTATGAAATTCCTCGACTGCTGGTACTGACATGAGTGTGAGCAATACAGAAGCTACAGACTG
GATATTAAGAAAGACTAATTAGCCCTTACAAGAAAAGCAGAGGGATCTTGCCAAGATGAAGAAATGCC
TGAGACCAGAAGAGCTGACAAATCAGATGAACCAGATAGAAATAAGTGTGCAGCATGAGCAGCTGGAAGA
GCGATTTCCAGGAGCTGGTGGAGGACTACCGCGTGTCTTGTGAGCGACTTGTCTCAAGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206588 protein sequence
Red=Cloning site Green=Tags(s)

MAALEKFLVEYKSAVEKKLAEYKCNNTAIELKLVRFPELLENDIRTFPEYTHQLFGDDETAFGYKGLK
 ILLYYIAGSLSTLFRVEYSSKVDENFDCVEADDEGKIRQIIPPGFCTNTNDFLSLLEKETNFKPFGTLL
 HTYTVPSQTGGETFTFQIHKADMTCRGFREYHERLQTFLMWF IETASFIDVDDERWHYFLVFEKYNKDGA
 TLFATVGYMTVYNYVYVDPKTRPRVSQMLILTPFQGGHGAQLLETVHRYYISFPTVLDITAEDPSRSYL
 KLRDFVLVKFCQFLPSFSRERLLQGFSEDMAIQQQMFKINKQHARRVYEILRLLVTDMSDAEQYRSYRL
 DIKRRLISPYKKKQRDLAKMKKCLRPEELTNQMNQIEISVQHEQLEERFQELVEDYRRVIERLAQE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_026115

ORF Size: 1251 bp

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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_026115.2](#), [NM_026115.3](#), [NM_026115.4](#), [NP_080391.2](#)

RefSeq Size: 1576 bp

RefSeq ORF: 1251 bp

Locus ID: 107435

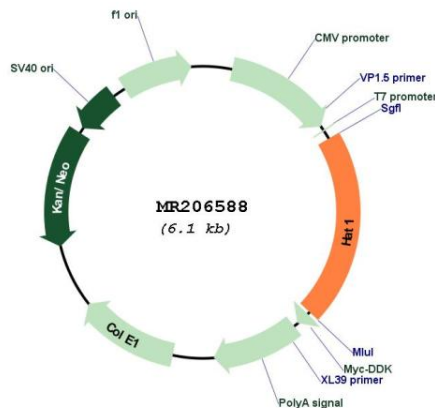
UniProt ID: [Q8BY71](#)

Cytogenetics: 2 C2

MW: 49.3 kDa

Gene Summary: 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]

Product images:



Circular map for MR206588