

Product datasheet for **MR207889**

Htatip (BC110675) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Htatip (BC110675) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Htatip
Synonyms:	Tip60, PLIP, Htatip1, 60kDa, Tip55
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207889 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAGGTGGGGGAGATAATCGAGGGCTGCCGCTGCCCGTCTGCGGCGCAACCAGGACAACGAAG
 ATGAGTGGCCCTGGCTGAGATCCTGAGCGTGAAGGACATCAGTGGCCGAAAGCTTTTCTATGTCCATTA
 CATTGACTTCAACAAACGTCTGGATGAATGGGTGACTCACGAGCGGCTGGACTTAAAGAAGATCCAATTT
 CCCAAGAAAGAGGCCAAGACACCTACCAAGAACGGACTTCTGGGTCCCGCCCGGCTCTCCGAAAGAG
 AGGTGCCGGCCTCCGCCAGGCCAGCGGAAGACCTTGCCAAATCCCGTCCAGATCACACTCCGCTTCAA
 CCTGCCAAGGAGCGGGAGGCCATCCAGGTGGCAGCCTGACCAGCCGCTCTCTCCAGCTCTGCCTG
 CAACCAACCACCGCTCAACGAAACGGAAGGTGGAGGTGGTTTACCAGCAACCCAGTCCCGAGCGAGA
 CAGCCCCAGCCTCGTTCCTCAGAATGGGTGAGCCGTAGGGCAGTGGCAGCCAGCCTGGACGGAA
 GCGGAAATCTAATTGCTTGGCACTGATGAGGATTCTCAGGACAGCTCAGATGGAATACCGTCAGCACCA
 CGAATGACTGGCAGTCTGGTGTCTGACCGGAGCCACGACGACATTGTACCCGGATGAAGAACATTGAGT
 GTATTGAGCTTGGCCGGCACCGCTCAAGCCGTGGTACTTCTCCCGTACCCACAAGAGCTTACCAGCT
 ACCCGTCTCTACCTGTGCGAATTTTGCCTCAAATATGGCCGTAGCCTCAAGTGTCTGCAACGCCACTTG
 ACCAAATGTGATCTTCGGCACCTCCAGGCAATGAAATTTACCGCAAGGGCACCATCTCCTTTTTGAGA
 TTGATGGACGGAAAAACAAGAGTTACTCACAAACCTGTGTCTTCTGGCCAAGTGTTCCTGGACCACAA
 AACACTGTACTATGACTGACCCCTTCTCTTCTACGTAATGACGGAGTATGACTGCAAGGTTTCCAC
 ATCGTGGGCTACTTCTCAAGGAAAAGGAATCCACAGAAGATTACAATGTGGCCTGCATCTTGACTCTGC
 CTCCCTACCAGCGCCGGGGCTATGGCAAGCTGCTATTGAGTTCAGTGAATGATGTGCTGCCTGACCAGGA
 GCTGGCAGGCCAAGCCTGTGTGGTCCATTCTGCTGAGAGCAGCTGGCGTTCCAGGATCGCAGCTAAA
 CTGATGACACTGAAAAGTTCCCATGTCCTCAGACCACAAGGGTCCCTCATTACTGCCATACCCAG
 ACACAGGCTGGCAGGGCAGCGACCCATCCTGGCAGCCTTCACTGGCTGACAAGTACCCAACCGGAGCTGC
 TCTTCTAGCCTTTGGCCCCAACACTGCAGACAGGGAAGCTGCTGGTCCACCAAGAGCTATGAACTCT
 CGAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207889 protein sequence
 Red=Cloning site Green=Tags(s)

MAEVGEIIEGCRLPVLRNQNDEWPLAEILSVKDISGRKLFYVHYIDFNKRLDEWVTHEERLDLKKIQF
 PKKEAKTPTKNGLPGRSPGSPEREVPASAQASGKTLPIPVQITLRFNLPKEREAIIPGGEPOPLSSSSCL
 QPNHRSTKRKVEVSPATVPVSETAPASVFPQNGSARRAVAAQGRKRKSNCLGTDESDQSSDGIPSA
 RMTGSLVSDRSHDDIVTRMKNIECIELGRHRLKPWYFSPYPQELTTLPVLYLCEFLKYGRSLKCLQRHL
 TKCDLRHPPGNEIYRKGTISFFEIDGRKNKSYSQNLCLLAKCFLDHKTLYYDTPFLFYVMTEYDCKGFH
 IVGYFSKEKESTEDYNVACILTLPPYQRRYGKLLIEFSEYVLPDQELAGQACVGPILLRAAGVPRIAAK
 LMTLKRFPQPQTKGSLITAIHPDTGWQSDPSWQPSLADKYPTGAALLAFGPQHCRQGSWSTPRAMNS
 RK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: BC110675

ORF Size: 1476 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: [BC110675](#), [AAI10676](#)

RefSeq Size: 2350 bp

RefSeq ORF: 1478 bp

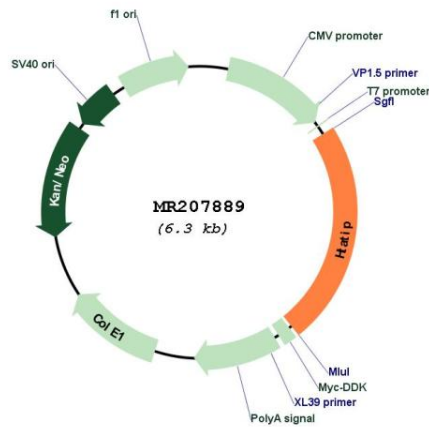
Locus ID: 81601

Cytogenetics: 19 A

MW: 55.3 kDa

Gene Summary:

Catalytic subunit of the NuA4 histone acetyltransferase complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A (By similarity). This modification may both alter nucleosome-DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription (By similarity). This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair (By similarity). NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage (By similarity). Component of a SWR1-like complex that specifically mediates the removal of histone H2A.Z/H2AFZ from the nucleosome (By similarity). Also acetylates non-histone proteins, such as ATM, NR1D2, RAN, FOXP3, ULK1 and RUBCNL/Pacer (PubMed:22539723). Directly acetylates and activates ATM. Relieves NR1D2-mediated inhibition of APOC3 expression by acetylating NR1D2 (By similarity). Promotes FOXP3 acetylation and positively regulates its transcriptional repressor activity. Acetylates RAN at 'Lys-134' (By similarity). Together with GSK3 (GSK3A or GSK3B), acts as a regulator of autophagy: phosphorylated at Ser-86 by GSK3 under starvation conditions, leading to activate acetyltransferase activity and promote acetylation of key autophagy regulators, such as ULK1 and RUBCNL/Pacer (PubMed:22539723).[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MR207889