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Product datasheet for MG207889

Htatip (BC110675) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Htatip (BC110675) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Htatip
Synonyms:	Tip60, PLIP, Htatip1, 60kDa, Tip55
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>MG207889 representing BC110675
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAGGTGGGGGAGATAATCGAGGGCTGCCGCCTGCCCGTGCTGCGGCGCAACCAGGACAACGAAG
ATGAGTGGCCCCTGGCTGAGATCCTGAGCGTGAAGGACATCAGTGGCCGAAAGCTTTTCTATGTCCATTA
CATTGACTTCAACAAACGTCTGGATGAATGGGTGACTCACGAGCGGCTGGACTTAAAGAAGATCCAATTT
CCCAAGAAAGAGGCCAAGACACCTACCAAGAACGGACTTCCTGGGTCCCGCCCCGGCTCTCCCGAAAGAG
AGGTGCCGGCCTCCGCCCAGGCCAGCGGGAAGACCTTGCCAATCCCGGTCCAGATCACACTCCGCTTCAA
CCTGCCCAAGGAGCGGGAGGCCATCCCAGGTGGCGAGCCTGACCAGCCGCTCTCCTCCAGCTCCTGCCTG
CAACCCAACCACCGCTCAACGAAACGGAAGGTGGAGGTGGTTTCACCAGCAACCCCAGTGCCCAGCGAGA
CAGCCCCAGCCTCGGTTTTCCCTCAGAATGGGTCAGCCCGTAGGGCAGTGGCAGCCCAGCCTGGACGGAA
GCGGAAATCTAATTGCTTGGGCACTGATGAGGATTCTCAGGACAGCTCAGATGGAATACCGTCAGCACCA
CGAATGACTGGCAGTCTGGTGTCTGACCGGAGCCACGACGACATTGTCACCCGGATGAAGAACATTGAGT
GTATTGAGCTTGGCCGGCACCGCCTCAAGCCGTGGTACTTCTCCCCGTACCCACAAGAGCTTACCACGCT
ACCCGTCCTCTACCTGTGCGAATTTTGCCTCAAATATGGCCGTAGCCTCAAGTGTCTGCAACGCCACTTG
ACCAAATGTGATCTTCGGCACCCTCCAGGCAATGAAATTTACCGCAAGGGCACCATCTCCTTTTTTGAGA
TTGATGGACGGAAAAACAAGAGTTACTCACAAAACCTGTGTCTTCTGGCCAAGTGTTTCCTGGACCACAA
AACACTGTACTATGACACTGACCCCTTCCTCTTCTACGTAATGACGGAGTATGACTGCAAAGGTTTCCAC
ATCGTGGGCTACTTCTCCAAGGAAAAGGAATCCACAGAAGATTACAATGTGGCCTGCATCTTGACTCTGC
CTCCCTACCAGCGCCGGGGCTATGGCAAGCTGCTTATTGAGTTCAGTGAGTATGTGCTGCCTGACCAGGA
GCTGGCAGGCCAAGCCTGTGTGGGTCCCATTCTGCTGAGAGCAGCTGGCGTTCCCAGGATCGCAGCTAAA
CTGATGACACTGAAAAGGTTCCCATGTCCTCAGACCACAAAGGGCTCCCTCATTACTGCCATACACCCAG
ACACAGGCTGGCAGGGCAGCGACCCATCCTGGCAGCCTTCACTGGCTGACAAGTACCCAACCGGAGCTGC
TCTTCTAGCCTTTGGCCCCCAACACTGCAGACAGGGAAGCTGCTGGTCCACACCAAGAGCTATGAACTCT
CGAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

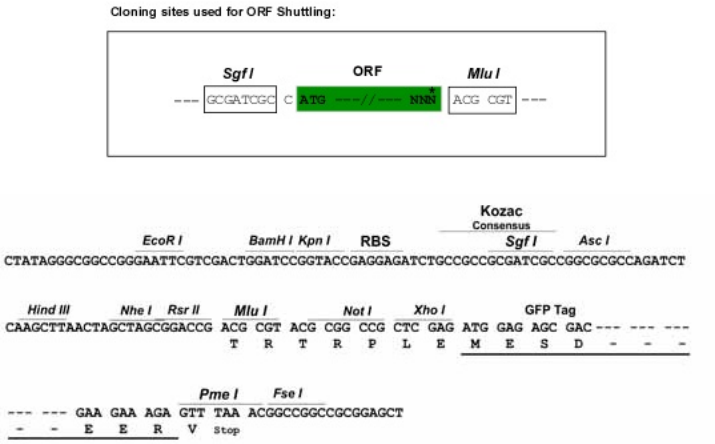
>MG207889 representing BC110675
Red=Cloning site Green=Tags(s)

MAEVGEIIEGCRLPVLRRNQDNEDEWPLAEILSVKDISGRKLFYVHYIDFNKRLDEWVTHERLDLKKIQF
PKKEAKTPTKNGLPGSRPGSPEREVPASAQASGKTLPIPVQITLRFNLPKEREAIPGGEPDQPLSSSSCL
QPNHRSTKRKVEVVSPATPVPSETAPASVFPQNGSARRAVAAQPGRKRKSNCLGTDEDSQDSSDGIPSAP
RMTGSLVSDRSHDDIVTRMKNIECIELGRHRLKPWYFSPYPQELTTLPVLYLCEFCLKYGRSLKCLQRHL
TKCDLRHPPGNEIYRKGTISFFEIDGRKNKSYSQNLCLLAKCFLDHKTLYYDTDPFLFYVMTEYDCKGFH
IVGYFSKEKESTEDYNVACILTLPPYQRRGYGKLLIEFSEYVLPDQELAGQACVGPILLRAAGVPRIAAK
LMTLKRFPCPQTTKGSLITAIHPDTGWQGSDPSWQPSLADKYPTGAALLAFGPQHCRQGSCWSTPRAMNS
RK

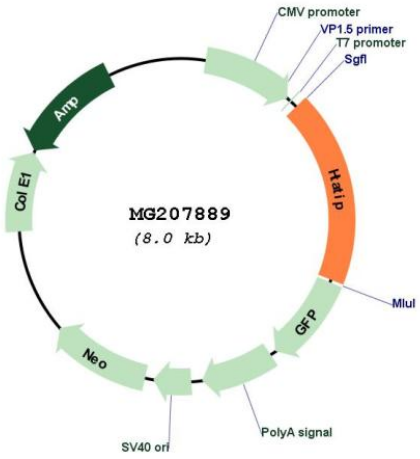
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	BC110675
ORF Size:	1478 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
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]