

Product datasheet for **MG207727**

Hdac1 (NM_008228) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hdac1 (NM_008228) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hdac1
Synonyms:	HD1; Hdac1-ps; MommeD5; RPD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207727 representing NM_008228
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCAGACTCAGGGACCAAGAGAAAGTCTGTTACTACTACGACGGGGATGTTGAAACTACTATT
 ATGGACAAGGGCACCCCATGAAGCCTCACGAATCCGCATGACTACAATTTGCTGCTCAACTATGGTCT
 CTACCGAAAAATGGAGATCTACCGTCTCACAAAGCCAATGCTGAGGAGATGACCAAGTACCACAGTGAT
 GACTACATTAATTCCTGCGTCTATTCGCCAGATAACATGTCTGAATACAGCAAGCAGATGCAGAGAT
 TCAATGTTGGTGAGGACTGTCCGGTATTTGATGGCTTGTGTTGAGTTCTGTGAGTTGTCCACGGGAGGCTC
 TGTCGCAAGTGTGAAGCTTAATAAGCAGCAGACGGACATCGTGTGAACTGGGCTGGGGCCTGCAC
 CATGCAAGAAGTCTGAAGCATCCGGCTTCTGTTACGTCAATGACATCGTCTTGGCCATCCTGGAAGTGC
 TAAAGTACCACCAGGGGTGCTCTATATTGACATTGATATTCACCATGGCGATGGCGTGAAGAGGCTT
 CTATACTACAGACGGGTGACTGTGTCCTTTCATAAATACGGAGAGTACTTCCAGGAACTGGGGAC
 CTACGGGACATTGGGGCTGGCAAAGCAAGTACTATGCTGTGAACTACCCACTGCCGAGACGGCATTGACG
 ACGAATCCTATGAAGCCATCTTTAAGCCAGTCAATGTCCAAAGTAATGGAGATGTTCCAGCCTAGTGCACT
 GGTCTTACAGTGTGGCTCAGATTCCTGTCTGGGGACCGTTAGGTTGCTTCAATCTGACCATCAAAGGA
 CACGCCAAGTGTGTGGAGTTCGTGAAGAGTTTCAACTGCCCCATGCTGATGCTGGGAGGAGGTGGCTACA
 CCATCCGGAATGTTGCTCGTGTGGACTTACGAAACAGCGGTGGCCCTGGACACAGAGATCCCTAATGA
 GCTGCCCTACAATGACTACTTTGAATACTTTGGACCGATTTCAAGCTTCACATCAGCCCTTCTAACATG
 ACCAACCAAGAACTAACGAGTACCTGGAGAAGATCAAGCAGCGTCTCTTTGAGAACTTGAGGATGCTGC
 CCCATGCCCTGGGGTCCAGATGCAGGCCATCCCTGAGGACGCCATCCCCGAAGAGAGTGGGGATGAAGA
 TGAGGAGGACCCTGACAACGCATCTCCATCTGCTCCTCTGATAAACGCATTGCCTGTGAGGAAGAGTTC
 TCGGACTCAGATGAGGAGGAGAAGGTGGTCGCAAGAAGTCTTCTAACTTCAAAAAAGCCAAAAAGTGA
 AAACAGAGGATGAGAAAGAGAAAGATCCTGAAGAGAAAAAAGAAGTACAGAAAGAAGAGAAAACCAAGGA
 GGAGAAGCCAGAAGCCAAAGGGTCAAAGAAGAGGTCAAGTTGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207727 representing NM_008228
 Red=Cloning site Green=Tags(s)

MAQTQGTKRKVCYYYDGDVGNYYYQGHPMKPHRIRMTHNLLLNLYGLYRKMEIYRPHKANAEEMTKYHSD
 DYIKFLRSIRPDNMSEYSKQMRFNVEDCPVFDGLFEFCQLSTGGSVASAVKLNKQQTDI AVNWAGGLH
 HAKKSEASGFYVNDIVLAILELLKYHQRVLYIDIDIHHGDGVVEAFYTTDRVMTVSFHKYGEYFPGTGD
 LRDIGAGKGKYYAVNYPLRDGIDDESIEAIFKPVMSKVMEMFQPSAVVLQCGSDLSGDRLGCFNLTIKG
 HAKCVEFVKSFNLPMLMLGGGGYIRNVARCWYETAVALDTEIPNELPYNDYFEYFGPDFKLHISPSNM
 TNQNTNEYLEKIKQRLFENLRMLPHAPGVQMQAIPEDAIPESGDEDEEDPKRISICSSDKRIACEEEF
 SDSDEEGEGGRKNSSNFKKAKRVKTEDEKEKDPEEKKEVTEEEKTKEEKPEAKGVKEEVKLA

TRTRPLE – GFP Tag – V

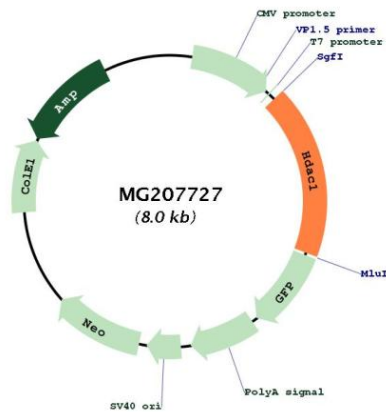
Restriction Sites:

Sgfl-Mlul

RefSeq: [NM_008228.2, NP_032254.1](#)
RefSeq Size: 1971 bp
RefSeq ORF: 1449 bp
Locus ID: 433759
UniProt ID: [O09106](#)
Cytogenetics: 4 63.26 cM

Gene Summary: Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. Deacetylates SP proteins, SP1 and SP3, and regulates their function. Component of the BRG1-RB1-HDAC1 complex, which negatively regulates the CREST-mediated transcription in resting neurons. Upon calcium stimulation, HDAC1 is released from the complex and CREBBP is recruited, which facilitates transcriptional activation. Deacetylates TSHZ3 and regulates its transcriptional repressor activity. Deacetylates 'Lys-310' in RELA and thereby inhibits the transcriptional activity of NF-kappa-B. Deacetylates NR1D2 and abrogates the effect of KAT5-mediated relieving of NR1D2 transcription repression activity. Component of a RCOR/GFI/KDM1A/HDAC complex that suppresses, via histone deacetylase (HDAC) recruitment, a number of genes implicated in multilineage blood cell development. Involved in CIART-mediated transcriptional repression of the circadian transcriptional activator: CLOCK-ARNTL/BMAL1 heterodimer. Required for the transcriptional repression of circadian target genes, such as PER1, mediated by the large PER complex or CRY1 through histone deacetylation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG207727