

## Product datasheet for MC223729

### Hdac6 (NM\_010413) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hdac6 (NM_010413) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hdac6
Synonyms:	Hd6; Hdac5; mHDA2; Sfc6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223729 representing NM_010413 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCTCCACCGCCAAGATTCTTCTACTAGACAGCGAAAGAGTAGGCACAATCCCCAGTCACCCCTTC  
AGGAATCCAGCGCCACCTTGAAGCGTGGTGAAAGAAGTGTGCTGTACCCCACTCCAGCCCCAATCTAGC  
GGAGGTAAGAAGAAAGCAAAATGAAGAAGCTGAGCCAACCAAGTGAAGAGGACCTAGTTGTGGGGCTT  
CAAGGGCTGGATCTGAACCTGAGACAAGAGTCCAGTTGGTACTGGATTGGTGTGGTGAACAATAA  
ATGACTTCCATTGCCTTTGGGATGACAGCTTCCCTGAAAGCCCTGAGCGGCTCCATGCCATCAGAGAGCA  
ACTGATCCTGGAGGGCCTCCTGGCCGCTGTGTCTCTTCAGGCCCGGTTTCGCTGAGAAGGAGGAGCTG  
ATGTTGGTTCACAGCCTGGAATACATTGATCTGATGGAGACAACCCAGTACATGAATGAAGGGGAGCTTC  
GAGTACTGGCAGAAACCTATGATTCAGTGTATCTGCATCCGAACCTCATATTCCTGTGCCTGCCTGGCTAC  
AGGCTCTGTCTCCGGCTGGTAGATGCACTCATGGGGCTGAGATTCCGAATGGCATGGCCGTCATCAGG  
CCTCCTGGACACCATGCTCAGCAAACTTATGGATGGGTATTGCATGTTCAACCATCTGGCTGTGGCTG  
CCCCTATGCGCAAAAGAAGCACCATTAGAGGGTTTCATCGTGGACTGGGATGTGCACCATGGTCA  
AGGAACACAGTTCATCTCGACCAGGACCCAGTGTCTTTATTTCTCCATCCACCGATATGAACATGGT  
CGCTTCTGGCCCCACCTTAAGGCTTCTAACTGGTCCACTATAGGTTTTGGCCAAGGCCAAGGATATACCA  
TCAATGTACCTTGAACCAAGACGGGATGCGGGACGCTGACTACATTGCTGCTTTCTGCACATCCTGCT  
GCCAGTTGCCTCGGAGTTTCAGCCTCAACTGGTCTTGGTGGCCGCTGGATTTGATGCCCTCCACGGAGAC  
CCCAAGGGAGAGATGGCTGCCACGCCAGGAGTTTGGCCACCTAACCCATTTGCTCATGGGTTTGGCAG  
GAGGCAAGTTGATTCTGTCCCTGGAGGGTGGCTATAACCTCCGTGCCCTGGCTAAGGGAGTCAGTGTCTC  
ACTCCACACCTTCTTGGAGACCCTTGCCCATGCTGGAGTCTGTGTTGTACCTTGTGCAAGCGCCAG  
ACTTCCATCTACTGCACTCTAGAAGCCCTTGAACCCTTCTGGGAGGTCCTGGAGAGATCAGTTGAGACCC  
AGGAGGAAGATGAAGTGAAGAAGCCGTGCTAGAAGAGGAGGAGGAGGAAGGTGGCTGGGAGGCCACTGC  
ACTGCCATGGATACATGCCACTGCTCCAGAACCGCACTGGGCTGGTCTATGATGAGAAGATGATGAGT



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CACTGCAACCTCTGGGACAATCATCACCCCTGAGACACCTCAGCGCATCTTACGCATCATGTGTACCTGG  
 AGGAGGTGGGCTTGGCGCTCGCTGTCTCATCCTACCTGCCTGGCCTGGACTCTGAGCTCCTTAC  
 CTGCCACAGTGTGAGTACGTGGAGCATCTCCGCACCACAGAAAAGATGAAAACCCGGGATCTGCACCGT  
 GAAGGTGCCAACTTTGACTCCATCTACATCTGCCCCAGCACCTTTGCCTGCGCAAAGCTTCCACAGGCG  
 CTGCTGCCGCTGGTGGAGCTGTGCTCTCGGGAGAGGTTCTAAATGGCATTGCAGTAGTGCGCCCTCC  
 AGGACACCACGCGGAGCCAAATGCTGCCTGTGGTTTCTGCTTTTCAACTCAGTAGTGTAGTGTCTGCG  
 CATGCCCAGATCATTGCTGGACGTGCCCTGCGGATCCTAATCGTGGATTGGGATGTTTCATCATGGTAATG  
 GAACTCAGCACATATTTGAGGATGACCCTAGTGTATTATACGTGCCCTGCACCGGTATGACCGTGGCAC  
 TTTCTTCCCATGGGGATGAGGGTGCCAGTAGCCAAGTAGGCCGAGATGCAGGTATAGGCTTCACTGTC  
 AATGTGCCCTGGAATGGGCCCGCATGGGTGATGCTGATTACCTGGCTGCATGGCATCGTCTGGTACTTC  
 CCATCGCCTATGAGTTTAAACCCAGAAGTGGTGTGATCTCAGCTGGCTTTGATGTGCACAAGGGGATCC  
 GCTGGGGGCTGCCAAGTAACACCGGAGGGTTATGCCACCTCACCCACCTACTGATGGGCTTGTGTT  
 GGCCGTATTATTCTATTCTAGAGGGTGGATACAATTTGGCATCTATCTGAGTCTATGGCTGCCTGCA  
 CCCATTCCCTCCTGGAGACCCACCACCCAGCTTACTTTGCTGCGACCGCCACAGTCAGGAGCCCTGGT  
 TTCAATCAGTGAGGTCAATCAAGTCCATCGAAATACTGGCGAGTTTGGGTTGATGAAAATGGAAGAC  
 AAGGAAGAATGCTCTAGTTCTAGCTTGTTCATCAAGAAGTTGCCCCCAACAGCCAGTCTGTATCAGCTA  
 AGGAAATGACCACACCGAAAGGAAAGGTTCTGAAGAAAGCGTGAGGAAGACCATAGCAGCACTACCTGG  
 GAAAGAGTCTACTTAGGCCAGGCTAAATCAAAGATGGCTAAGGCTGTGCTTGTCTCAGGGCCAGTCTCA  
 GAACAAGCTGCTAAGGGAACACTGGATCTGGCTACCTCAAAGGAGACTGTGGGAGGACCCACGACGG  
 ACCTGTGGGCTCAGCAGCTGCTCCTGAAAACCTCCCTAACCCAGACCCACTCTGTGGAGGCTTTGGGAGA  
 AACTGAGCCAACGCCCTCCAGCCTCGCATACAAACAAGCAGACCACAGGGGCTTCACTCTGCAGGGAGTC  
 ACGGCTCAGCAGTCCCTACAGCTTGGGGTCTCAGCACTTTGGAGCTAAGCAGAGAAGCAGAGGAAGCCC  
 ATGATTTGAGGAGGGCCTGCTAGGGGAAGCCGCTGGAGGTCAGGACATGAACAGCTTGTGCTGACACA  
 AGGATTTGGGGACTTTAATACCCAGGATGATTTTATGCTGTGACCCCACTATCCTGGTGTCCCATTTG  
 ATGGCAGTATGCCCATTTCTGCAGCAGGCTAGATGTGTCCCAACCTTGTAAAGCCTGTGGAACAGTCC  
 AGGAGAAGTGGTGTGTCTGACTTGTATCAGGTGTACTGCAGTCGCTATGTCAATGCCCATATGGTCTG  
 CCACCATGAAGCCTCTGAACACCCGCTGGTCTCAGCTGTGTGACCTGTCTACCTGGTGTATGTCTGT  
 CAGGCTTATGTCCACCACGAGGATCTCCAAGATGTGAAGAACGCTGCCACCAGAACAAGTTTGGGGAGG  
 ACATGCCCACTCACACTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Chromatograms:** [https://cdn.origene.com/chromatograms/ja1611\\_g05.zip](https://cdn.origene.com/chromatograms/ja1611_g05.zip)
- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_010413
- Insert Size:** 3450 bp
- 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).
- 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\\_010413.3](#), [NP\\_034543.3](#)

**RefSeq Size:** 4142 bp

**RefSeq ORF:** 3450 bp

**Locus ID:** 15185

**UniProt ID:** [Q9Z2V5](#)

**Cytogenetics:** X 3.58 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 (By similarity). Plays a central role in microtubule-dependent cell motility via deacetylation of tubulin.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.