

## Product datasheet for **MC205016**

### Hdac8 (NM\_027382) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Hdac8 (NM\_027382) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Hdac8  
**Synonyms:** 2610007D20Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC061257  
GGAGTCTGAAAAGTGTGGCTCCAGACTTTGGCTCGCGGACGGTTGGAAGTGGGAGATGGAGATGCCAGA  
GGAACCCGCCAACAGTGGGCATTCACTACCCCGTTTATATTTACAGTCCCAGATATGTCAGCATCTGC  
GACTCCCTTGTGAAGTCCCAAACGGGCCAGTATGGTCCACTCTGATCGAAGCCTATGCCCTGCATA  
AACAAATGAGGATAGTGAAGCCAAAGTGGCCTCCATGGAGGAGATGGCCACCTTCCACACTGATGCCTA  
TCTGCAACATCTCCAGAAAGTCAGCCAAGAAGGTGATGAGGACCATCCAGACTCCATAGAATATGGACTA  
GGTTATGACTGCCAGCCACAGAAGGGATATTTGACTATGCAGCAGCTATAGGAGGAGGTACAATCACAG  
CTGCCAGTGCCTGATTGACGGGAAGTGTAAAGTAGCCATCAACTGGTCTGGAGGTGGCATCATGCAAA  
GAAAGATGAAGCATCTGGTTTCTGTTATCTCAATGATGCTGTCTGGGAATATTACGATTGCGACGGAAA  
TTTGACCGTATTCTCTACGTGGATTTGGATCTACACCATGGAGATGGTGTAGAAGATGCCTTCAGTTTTA  
CATCGAAGTTATGACTGTGTCCCTGCACAAGTTCTCCCAGGATTTTTCCCAGGAACAGGTGACATGTC  
TGATGTTGGCCTGGGAAAGGACGGTACTACAGTGTCAATGTGCCATTACAGGATGGCATCCAGGATGAG  
AAGTACTATCACATCTGTGAAAGTGTACTAAAAGAAGTGTACCAGGCCTTCAATCCGAAGGCAGTGGTTT  
TACAGCTGGGAGCAGATACTATTGCCGGAGATCCAATGTGTTCCCTTAATATGACACCAAGTGGGGATCGG  
CAAGTGTCTGAAGTATGTCCTACAGTGGCAGCTGGCAACTCTGATTTTAGGAGGAGGAGGCTATAACCTT  
GCCAACACGGCTCGTTGCTGGACATACTTGACCGGGTTCATCCTAGGGAAAACGCTATCCTCTGAGATCC  
CAGATCATGAGTTTTTACAGCATATGGTCTGATTATGTGCTGGAAATCACGCCAAGCTGCCGGCCAGA  
CCGCAATGAGCCCCACCGAATCCAGCAAATCCTCAACTACATCAAAGGGAATCTGAAGCATGTGGTCTAG  
TTGACAAAAAGAGATCAGTTCCAGAGCTGGCAGCAGTGCCTATAATGAAGACAGTGTGTTGATGCAA  
GCGGTTTTGTGGAATTTGTGACTGCAGGGGAAATTTGGAAGAAATTACTTCTGAAAATTTCCAAGGGCA  
CCAAGTGGCAGCTGGCCTCCTGGGTGAGGAGCCAGGCACCCCGGAGCCAGGCCTAAGGGGAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Sfil-Sfil  
**ACCN:** NM\_027382  
**Insert Size:** 1134 bp



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**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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:** [BC061257](#), [AAH61257](#)

**RefSeq Size:** 1421 bp

**RefSeq ORF:** 1134 bp

**Locus ID:** 70315

**UniProt ID:** [Q8VH37](#)

**Cytogenetics:** X D

**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. Also involved in the deacetylation of cohesin complex protein SMC3 regulating release of cohesin complexes from chromatin. May play a role in smooth muscle cell contractility (By similarity).[UniProtKB/Swiss-Prot Function]  
 Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.