

## Product datasheet for MC229355

### Hdac9 (NM\_001271386) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hdac9 (NM_001271386) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hdac9
Synonyms:	AV022454; D030072B18Rik; HD7B; HD9; Hdac7b; HDRP; Mitr; mKIAA0744
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229355 representing NM_001271386 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAGCTCGCCGGTGCAGCCAGATGGAGTGGCCGGACGGGAGCAGCTCTGGCTCAGCAAAGAATGCACA  
GTATGATCAGCTCAGTGGACGTGAAATCAGAGGTTCTATGGCCTGGAGCCCATCTCACCTTTAGACCT  
GAGGACAGATCTCAGGATGATGATGCCTGTGGTGGATCCTGTCTCGTCCGCGAGAAGCAACTGCAGCAAGAG  
TTACTTCTTATTACGAGCAGCAGCAGATCCAGAAGCAGCTCCTCATAGCAGAGTTTCAGAAGCAGCAGC  
AGAATTTGACAAGGCAGCATCAAGCACAACTCCAGGAGCAGATCAAGTTACAACAGGAAGTTCTAGCCAT  
AAAACAACAGCAAGAAGCTCTAGAAAAGGAGCAGAAAAGTGGAGCAGCAGAGGCAAGAACAGGAAGTAGAG  
AGGCATCGCAGAGAGCAGCAGCTTCTCTCTCAGAGGCAAGATAGAGGACGAGAAAGGGCAGTGGCAA  
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AGGATGATTTCCCTTGAGAAAAGTGCCTCAGAGCCCACTTGAAGGTGCGGTCCAGGTTAAAACAGAA  
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CACCTACTGCTGAAGGAACAAATGCGACAGCAAAAGCTTCTCGTGGCTGGTGGAGTTCATTACACCTC  
AGTCTCCTTTGGCAACAAAAGAAAGAAATTTACCAGGCATTAGAGGTACCCACAAATGGCCCGCCACCG  
ACCCCTGAATCGAACCCAGTCTGCACCTTTGCCTCAGAGCAGCTGGCTCAGCTGGTTCATTAGCAGCAG  
CACCAGCAGTTCCTGGAGAAGCAGAAAACATACCAGCAGCAGATCCACATGAACAAACTGCTATCGAAAT



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CTATTGAACAACCTGAAGCAACCAGGCAGCCACCTTGAAGAAGCAGAGGAGGAGCTTCAGGGGGACCAATC
CATGGAAGACAGAGCAGCCTCTAAGGACAACAGTGCTAGGAGTGACAGCAGTGCTTGTGTGGAGGACACG
CTGGGACAAGTTGGGGCTGTGAAGGTCAAGGAGGAACCCGTGGACAGCGATGAAGATGCTCAGATACAGG
AAATGGAATGTGGGGAGCAGGCTGCTTTTATGCAACAGCCTCCCTTGCTGGAGTCTCACGCGCGGCTC
ACTCTCCGTGCACCAGACTCTGGCTGCAGTTGGCACCGATGGATTAGAGAAAATGGTCTCCTCTCCCGG
ACCCATTCTTCTCCTGCAGCCTCCATGTACCTCACCCAGCAGCCGACTGTCCCCGCCAGCCTTCCCTCTG
CCACTGGAATTGCCTATGACCCTCTGATGCTGAAACACCAGTGCATCTGTGGCAGCTCCACGACCCACCC
TGAGCACGCCGGCGGATACAGAGCATCTGGTACCGCTGCAAGAAACGGGGCTGCTAAGTAAATGTGAG
CGAATTC AAGGTCGAAAAGCCAGCCTGGAGGAAAATACAGCTTGTTCATTCTGAACATCACTCACTATTGT
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TCCATCGCTATGATGAAGGAACTTTTTCCCTGGCAGTGGAGCCCGAATGAGGTTGGAGTAGGCTGAGG
AGAAGGCTACAATGTAACATTGCCTGGACAGGTGGCCTCGACCCCTATGGGAGATGTTGAGTACCTT
GAAGCGTTCAGGACTGTCGTGATGCCTGTGGCCAGAGAGTTTGTATCCAGATATGGTCTGGTTTCTGCTG
GATTTGATGCATTGGAAGCCATACCCCTCCCTCGGGGGTTACAAAGTGACAGCAAAATGCTTTGGTCA
TTTGACGAAGCAACTGATGACATTGGCTAATGGACGTGTGGCATTGGCTCTGGAAGGAGGACATGATCTG
ACAGCTATTTGTGATGCATCGGAAGCCTGCATAAATGCCCTTCTAGGAAATGAGCCTGGTCTCTTGAGG
AAGATGCTCTCCACCAGTCCGTGAATACGAATGCAGCCGCTTCTTACAGAAGACCATTGACATCCAAAG
CAAGATTGGAAGTCAATCAAGATGGTGGCTGCTGCAAGGGGCGGTGCTGCTGCTTCTCAGCTGCAA
GAGGAGACAGAGACCGTTTCTGCGCTAGCCTCCCTGACGGTAGATGTGGAACAGCCATTTGCTCAGGAAG
ATGGCAGAACTGCTGGTGGAGCCATGGAAGAGGAGCCAGCCTTGTGA

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**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001271386
- Insert Size:** 3267 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001271386.1](#), [NP\\_001258315.1](#)

**RefSeq Size:** 8195 bp

**RefSeq ORF:** 3267 bp

**Locus ID:** 79221

**Cytogenetics:** 12 A3

**Gene Summary:** Devoided of intrinsic deacetylase activity, promotes the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4) by recruiting HDAC1 and HDAC3. Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Represses MEF2-dependent transcription, inhibits skeletal myogenesis and may be involved in heart development. Protects neurons from apoptosis, both by inhibiting JUN phosphorylation by MAPK10 and by repressing JUN transcription via HDAC1 recruitment to JUN promoter. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and 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. This variant lacks full-length transcript support the exon combination is inferred from partial transcripts and orthologous alignments.