

Product datasheet for **MC219371**

Hdac9 (NM_024124) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hdac9 (NM_024124) 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



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Fully Sequenced ORF: >MC219371 representing NM_024124
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCACAGTATGATCAGCTCAGTGGACGTGAAATCAGAGGTTCTATGGGCTGGAGCCCATCTCACCTT
 TAGACCTGAGGACAGATCTCAGGATGATGATGCCTGTGGTGGATCCTGTGTCGCCGAGAAGCAACTGCA
 GCAAGAGTTACTTCTTATTTCAGCAGCAGCAGCAGATCCAGAAGCAGCTCCTCATAGCAGAGTTTCAAGA
 CAGCACGAGAATTTGACAAGGCAGCATCAAGCACAACCTCCAGGAGCACATCAAGGAACTTCTAGCCATAA
 AACACAGCAAGAATCTAGAAAAGGAGCAGAACTGGAGCAGCAGAGGCAAGAACAGGAAGTAGAGAG
 GCATCGCAGAGAGCAGCAGCTTCTCCTCTCAGAGGCAAAGATAGAGGACGAGAAAGGGCAGTGGCAAGC
 ACAGAGGTTAAGCAGAAGCTTCAAGAATTCCTGTTGAGTAAATCAGCAACAAAAGACACTCCAACCAATG
 GAAAGAATCATTCCGTGGGCCCATCCCAAGCTCTGGTACACGGCTGCCACCACACATCACTGGATCA
 AAGCTCTCCACCCTCAGTGGAACTCTCCATCTACAAGTACACATTACCAGGAGCTCAAGATAGCAAG
 GATGATTTCCCTTGAGAAAACTGCCTCAGAGCCCAACTTGAAGGTGCGGTCCAGGTTAAAACAGAAAG
 TGGCAGAGAGGAGAAGCAGTCCCTTACTCAGGCGGAAGGATGGAATCTTGTCACTTCATTCAAGAAGCG
 AGTGTGTTGAGGTGGCAGAATCCTCGTTCAGTAGCAGCTCTCCAGGGTCAGGTCCCAGTTCACCAAACAAT
 GGCCCTGCTGGGAATGTGACCGAAAAAGAGGCTTCAGCTCTGCCTCCCACGCCTCACCCCGAGCAACTGG
 TTCCACAGCAGCGCATACTAATTCATGAAGATTCATGAACCTGCTAAGTCTCTATACTCCCGTCCCT
 GCCCAATCACTCTGGGACTTCCAGCAGTCCCGTCCCACTCAATGCTTCTAACTCACTCAAAGACAAA
 CAGAAGTGCAGACACAGATGCTCAGACAAGGTGTTCTCTGCCAGTCAGTATGGCAGTAGCATTGCAG
 CGTCTCCAGCCAGTTCATGTAGCAATGGAAGGAAAACCCAGCAGCCACCAGGCTCTCCTGCAGCA
 CCTACTGCTGAAGGAACAAATGCCAGCAGCAAAAGCTTCTCGTGGCTGGTGGAGTTCCATTACACCCTCAG
 TCTCCTTTGGCAACAAAAGAAATTTACCAGGCATTAGAGGTACCCACAAATTTGCCCGCCACCAGC
 CCCTGAATCGAACCCAGTCTGCACCTTTGCCTCAGAGCACGCTGGCTCAGCTGGTCATTAGCAGCAGCA
 CCAGCAGTTCCTGGAGAAGCAGAAACAATACCAGCAGCAGATCCACATGAACAACTGCTATCGAAATCT
 ATTGAACAACTGAAGCAACCAGGAGCCACCTTGAAGAAGCAGAGGAGGAGCTTCCAGGGGACCAATCCA
 TGGAAAGACAGAGCAGCTTAAGGACAACAGTGTAGGAGTGACAGCAGTGTGTTGTGGAGGACACGCT
 GGGACAAGTTGGGGCTGTGAAGTCAAGGAGGAACCCGTGGACAGCGATGAAGATGCTCAGATACAGGAA
 ATGGAATGTGGGAGCAGGCTGCTTTTATGCAACAGGTAATAGGCAAGATTTAGCTCCAGGATTTGTAA
 TTAAGTCATTATT**GAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_024124
- Insert Size:** 1767 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_024124.3](#), [NP_077038.2](#)

RefSeq Size: 4461 bp

RefSeq ORF: 1767 bp

Locus ID: 79221

UniProt ID: [Q99N13](#)

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 (2) differs in the UTRs and has multiple coding region differences, compared to variant 1. These differences cause translation initiation at a downstream AUG and result in an isoform (2) with a shorter N-terminus and a distinct C-terminus, compared to isoform 1.