

Product datasheet for **RC234438**

HDAC9 (NM_001204148) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC9 (NM_001204148) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HDAC9
Synonyms:	HD7; HD7b; HD9; HDAC; HDAC7; HDAC7B; HDAC9B; HDAC9FL; HDRP; MITR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234438 representing NM_001204148
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATGATGCCCGTGGTGGACCCTGTTGTCCGTGAGAAGCAATTGCAGCAGGAATTACTTCTTATCCAGC
 AGCAGCAACAAATCCAGAAGCAGCTTCTGATAGCAGAGTTTCAGAAACAGCATGAGAACTTGACACGGCA
 GCACCAGGCTCAGCTTCCAGGAGCATATCAAGTTGCAACAGGAAGTTCTAGCCATAAAACAGCAACAAGAA
 CTCCTAGAAAAGGAGCAGAACTGGAGCAGCAGAGGCAAGAACAGGAAGTAGAGAGGCATCGCAGAGAAC
 AGCAGCTTCTCTCTCAGAGGCAAGATAGAGGACGAGAAAGGGCAGTGGCAAGTACAGAAGTAAAGCA
 GAAGCTTCAAGAGTTCCTACTGAGTAAATCAGCAACGAAAGACACTCCAATAATGGAAAAATCATTCC
 GTGAGCCGCCATCCCAAGCTCTGGTACACGGCTGCCACCACACATCATTGGATCAAAGCTCTCCACCCC
 TTAGTGGAACATCTCCATCCTACAAGTACACATTACCAGGAGCACAAGATGCAAAGGATGATTTCCCCCT
 TCGAAAACTGCCTCTGAGCCCACTTGAAGGTGCGGTCCAGGTTAAAACAGAAAGTGCCAGAGAGGAGA
 AGCAGCCCCTTACTCAGGCGGAAGGATGGAAATGTTGTCACTTCAAGAAAGCGAATGTTTGAGGTGA
 CAGAATCCTCAGTCAGTAGCAGTCTCCAGGCTCTGGTCCAGTTACCAAAACAATGGGCCAACTGGAAG
 TGTTACTGAAAATGAGACTTCGGTTTTGCCCCCTACCCCTCATGCCGAGCAAATGGTTTCACAGCAACGC
 ATTCTAATTCATGAAGATTCCATGAACCTGCTAAGTCTTTATACCTCTCCTTCTTTGCCAACATTACCT
 TGGGGCTTCCCGCAGTGCCATCCAGCTCAATGCTTCAATTCCTCAAGAAAAGCAGAAGTGTGAGAC
 GCAGACGCTTAGGCAAGGTGTTCTCTGCCTGGCAGTATGGAGGCAGCATCCCGGCATCTTCCAGCCAC
 CCTCATGTTACTTTAGAGGGAAGCCACCAACAGCAGCCACAGGCTCTCCTGCAGCATTATTATTGA
 AAGAACAATGCGACAGCAAAAGCTTCTGTAGCTGGTGGAGTCCCTTACATCCTCAGTCTCCCTTGGC
 AACAAAAGAGAGAATTTACCTGGCATTAGAGGTACCCACAAATTGCCCGTACAGACCCCTGAACCGA
 ACCCAGTCTGCACCTTTGCCTCAGAGCAGTGGCTCAGCTGGTCAATCAACAGCAACACCAGCAATTCT
 TGGAGAAGCAGAAGCAATACCAGCAGCAGATCCACATGAACAACTGCTTTGAAATCTATTGAACAACT
 GAAGCAACCAGGCAGTACCTTGAGGAAGCAGAGGAAGAGCTTACAGGGGACCAGGCGATGCAGGAAGAC
 AGAGCGCCCTCTAGTGGCAACAGCACTAGGAGCGACAGCAGTGTGTGTGGATGACACACTGGGACAAG
 TTGGGGCTGTGAAGGTCAAGGAGGAACAGTGGACAGTGTGAAGATGCTCAGATCCAGGAAATGGAATC
 TGGGGAGCAGGCTGCTTTATGCAACAGGTAATAGGCAAAGATTTAGCTCCAGGATTTGTAATTAAGTC
 ATTATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234438 representing NM_001204148
 Red=Cloning site Green=Tags(s)

MMMPVVDPVVREKQLQQELLLIQQQQIQKQLLIAEFQKQHENLTRQHQAQLQEHIKLLQELLAIKQQQE
 LLEKEQKLEQQRQEQEVEHRREQLPPLRGKDRGRERAVASTEYKQLQEFLLSKSATKDTPTNGKNHS
 VSRHPKLWYAAHHTSLDQSSPPLSGTSPSYKYTLPGAQDAKDDFPLRKTASEPNLKVRSRLKQKVAERR
 SSPLLRRKDGNNVTSFKKRMFEVTESSVSSSPGSGPSSPNNPTGSVTENETSVLPPTPHAEQMVQQR
 ILIHEDSMNLLSLYTSPLPNITLGLPAVPSQLNASNSLKEKQKQKQETQLRQGVPLPGQYGGIPASSH
 PHVTLEGKPPNSSHQALLQHLLLKEQMRQKLLVAGGVPLHPQSPLATKERISPGIRGTHKLPVHRPLNR
 TQSAPLPQSTLAQLVIQQQHQQFLEKQKQYQQQIHMNKLLSKSIEQLKQPGSHLEEAEEELQGDQAMQED
 RAPSSGNSTRSDSSACVDDTLGQVQAVKVEEVPVDSDEDAQIQEMESGEQAAMQVYIGKDLAPGFVIK
 II

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001204148

ORF Size: 1686 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001204148.3](#)

RefSeq Size: 4265 bp

RefSeq ORF: 1689 bp

Locus ID: 9734

UniProt ID: [Q9UKV0](#)

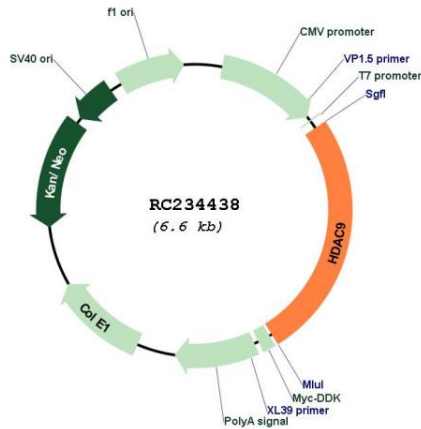
Cytogenetics: 7p21.1

Protein Families: Druggable Genome, Transcription Factors

MW: 63.3 kDa

Gene Summary: Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene has sequence homology to members of the histone deacetylase family. This gene is orthologous to the Xenopus and mouse MITR genes. The MITR protein lacks the histone deacetylase catalytic domain. It represses MEF2 activity through recruitment of multicomponent corepressor complexes that include CtBP and HDACs. This encoded protein may play a role in hematopoiesis. Multiple alternatively spliced transcripts have been described for this gene but the full-length nature of some of them has not been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC234438