

Product datasheet for **RC215267**

HDAC9 (NM_014707) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC9 (NM_014707) 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:

>RC215267 representing NM_014707
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCACAGTATGATCAGCTCAGTGGATGTGAAGTCAAGTTCCTGTGGCCTGGAGCCCATCTCACCTT
 TAGACCTAAGGACAGACCTCAGGATGATGATGCCCGTGGTGGACCCTGTTGTCCGTGAGAAGCAATTGCA
 GCAGGAATTACTTCTTATCCAGCAGCAGCAACAATCCAGAAGCAGCTTCTGATAGCAGAGTTTCAGAAA
 CAGCATGAGAAGTACACGGCAGCACCAGGCTCAGTTCAGGAGCATATCAAGGAACTTAGCCATAA
 AACAGCAACAAGAAGTCTAGAAAAGGAGCAGAACTGGAGCAGCAGAGGCAAGAACAGGAAGTAGAGAG
 GCATCGCAGAGAACAGCAGCTTCTCCTCTCAGAGGCAAGATAGAGGACGAGAAAGGCGAGTGGCAAGT
 ACAGAAGTAAAGCAGAAGCTTCAAGAGTTCCTACTGAGTAAATCAGCAACGAAAGACTCCAATAATG
 GAAAAAATCATTCCGTGAGCCGCCATCCAAGCTCTGGTACACGGCTGCCACCACACATCATTGGATCA
 AAGCTCTCCACCCTTAGTGGAACATCTCCATCTACAAGTACACATTACCAGGAGCACAAGATGCAAG
 GATGATTTCCCCCTTCGAAAACTGCCTCTGAGCCCAACTTGAAGGTGCGGTCCAGGTTAAACAGAAA
 TGGCAGAGAGGAGAAGCAGCCCTTACTCAGGCGAAGGATGGAATGTTGTCACTTCATTCAAGAAGCG
 AATGTTTGAGGTGACAGAATCCTCAGTCAGTAGCAGTTCTCCAGGCTCTGGTCCCAGTTCACCAACAAT
 GGGCCAAGTGAAGTGTACTGAAAATGAGACTTCGGTTTTGCCCTACCCCTCATGCCGAGCAAAATGG
 TTTACAGCAACGCATTCTAATTCATGAAGATTCATGAACCTGCTAAGTCTTTATACCTCTCCTCTTT
 GCCCAACATTACCTGGGGCTTCCCGCAGTGCCATCCCAGCTCAATGCTTCGAATCACTCAAAGAAAAG
 CAGAAGTGTGAGACGCAGACGCTTAGGCAAGGTGTTCTCTGCCTGGGCAGTATGGAGGCAGCATCCCG
 CATCTCCAGCCACCCTCATGTTACTTTAGAGGAAAAGCCACCAACAGCAGCCACCAGGCTCTCCTGCA
 GCATTTATTATTGAAAGAACAATGCGACAGCAAAAGCTTCTGTAGCTGGTGGAGTTCCCTTACATCCT
 CAGTCTCCCTTGCAACAAAAGAGAGAATTTACCTGGCATTAGAGGTACCCACAATGCCCCGTCACA
 GACCCCTGAACCGAACCCAGTCTGCACCTTTCCTCAGAGCAGTGGCTCAGCTGGTCAATCAACAGCA
 ACACCAGCAATCTTGGAGAAGCAGAAGCAATACCAGCAGCAGATCCACATGAACAACTGCTTTGAAA
 TCTATTGAACAAGTGAAGCAACCCAGGCTCACCTTGGAGAACGAGGAAGAGCTTCAGGGGACCAGG
 CGATGCAGGAAGACAGAGCGCCCTCTAGTGCAACAGCACTAGGAGCGACAGCAGTGTGTGTGGATGA
 CACTGGGACAAGTGGGGCTGTGAAGGTCAAGGAGAACAGTGGACAGTGTGAAGATGCTCAGATC
 CAGGAAATGGAATCTGGGGAGCAGGCTGCTTTTATGCAACAGGTAAAGGCAAGATTTAGCTCCAGGAT
 TTGTAATTAAGTCATTATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215267 representing NM_014707
 Red=Cloning site Green=Tags(s)

MHSMISSVDKSEVPVGLPEISPLDLRDLRMMMPVVDPPVREKQLQQELLLIQQQQIQQKQLLIAEFQK
 QHENLTRQHQALQEHIKELLAIKQQELLEKEQKLEQQRQEVEVERHREQLPPLRGKDRGRERAVAS
 TEVKQKLQEFLLSKSATKDTPTNGKNHSVSRHPKLWYAAHHTSLDQSSPPLSGTSPSYKYTLPGAQDAK
 DDFPLRKTASEPNLKVRSRLKQKVAERRSSPLLRKDGNNVTSFKKRMFEVTESSVSSSSPGSGSPSPNN
 GPTGSVTENETSVLPPTPHAEQMVSSQIRLIIHEDSMNLLSLYTSPLPNITLGLPAVPSQLNASNSLKEK
 QKQETQTLRQGVPLPGQYGGSSIPASSSHPHVTLEGKPPNSSHQALLQHLLLKEQMRQKLLVAGGVPLHP
 QSPLATKERISPGIRGTHKLPRHRPLNRTQSAPLPQSTLAQLVIQQHQHFLEKQKQYQQIHMNKLLSK
 STEQLKQPGSHLEEAEEELQGDQAMQEDRAPSSGNSTRSDSSACVDDTLGQVGVAVKVKKEPVDSEDAQI
 QEMESGEQAQAFMQVIGKDLAPGFVIKVII

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6474_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014707

ORF Size: 1770 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_014707.4](#)

RefSeq Size: 4238 bp

RefSeq ORF: 1773 bp

Locus ID: 9734

UniProt ID: [Q9UKV0](#)

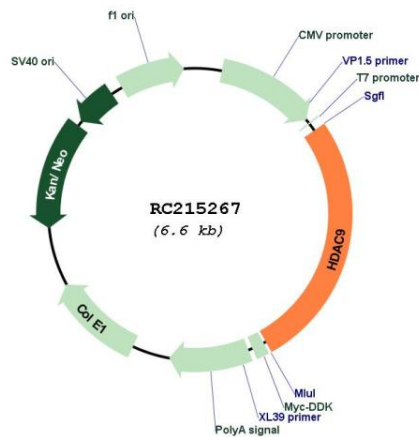
Cytogenetics: 7p21.1

Protein Families: Druggable Genome, Transcription Factors

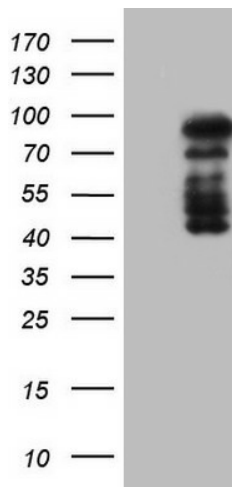
MW: 65.7 kDa

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]

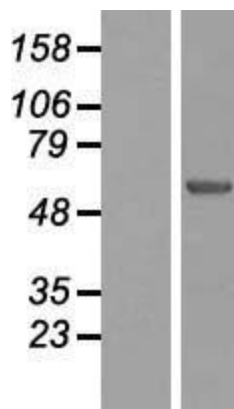
Product images:



Circular map for RC215267



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HDAC9 (Cat# RC215267, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HDAC9(Cat# [TA805328]). Positive lysates [LY415085] (100ug) and [LC415085] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY415085]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215267 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HDAC9 protein (Cat# [TP315267]). The protein was produced from HEK293T cells transfected with HDAC9 cDNA clone (Cat# RC215267) using MegaTran 2.0 (Cat# [TT210002]).