

## Product datasheet for **RG215267**

### HDAC9 (NM\_014707) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC9 (NM_014707) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HDAC9
Synonyms:	HD7; HD7b; HD9; HDAC; HDAC7; HDAC7B; HDAC9B; HDAC9FL; HDRP; MITR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG215267 representing NM\_014707  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCACAGTATGATCAGCTCAGTGGATGTGAAGTCAGAAGTTCCTGTGGCCTGGAGCCCATCTCACCTT  
 TAGACCTAAGGACAGACCTCAGGATGATGATGCCCGTGGTGGACCCTGTTGTCCGTGAGAAGCAATTGCA  
 GCAGGAATTACTTCTTATCCAGCAGCAGCAACAATCCAGAAGCAGCTTCTGATAGCAGAGTTTCAGAAA  
 CAGCATGAGAAGTTGACACGGCAGCACCAGGCTCAGCTTCAGGAGCATATCAAGGAACTTCTAGCCATAA  
 AACAGCAACAAGAAGCTCTAGAAAAGGAGCAGAACTGGAGCAGCAGAGGCAAGAACAGGAAGTAGAGAG  
 GCATCGCAGAGAACAGCAGCTTCTCCTCTCAGAGGCAAGATAGAGGACGAGAAAGGGCAGTGGCAAGT  
 ACAGAAGTAAAGCAGAAGCTTCAAGAGTTCCTACTGAGTAAATCAGCAACGAAAGACTCCAATAATG  
 GAAAAAATCATTCCGTGAGCCGCCATCCAAGCTCTGGTACACGGCTGCCACCACACATCATTGGATCA  
 AAGCTCTCCACCCTTAGTGGAACATCTCCATCTACAAGTACACATTACCAGGAGCACAAGATGCAAAG  
 GATGATTTCCCCCTTCGAAAACTGCCTCTGAGCCCAACTTGAAGGTGCGGTCCAGGTTAAAACAGAAAG  
 TGGCAGAGAGGAGAAGCAGCCCTTACTCAGGCGGAAGGATGGAATGTTGTCACTTCATTCAAGAAGCG  
 AATGTTTGAGGTGACAGAATCCTCAGTCAGTAGCAGTTCTCCAGGCTCTGGTCCCAGTTCACCAAACAAT  
 GGGCCAAGTGAAGTGTACTGAAAATGAGACTTCGGTTTTGCCCTACCCCTCATGCCGAGCAAAATGG  
 TTTACAGCAACGCATTCTAATTCATGAAGATTCATGAACCTGCTAAGTCTTTATACCTCTCTCTTT  
 GCCCAACATTACCTGGGGCTTCCCGCAGTGCCATCCCAGCTCAATGCTTCGAATCACTCAAAGAAAAG  
 CAGAAGTGTGAGACGCAGACGCTTAGGCAAGGTGTTCTCTGCCTGGGCAGTATGGAGGCAGCATCCCGG  
 CATCTCCAGCCACCCTCATGTTACTTTAGAGGAAAGCCCAACAGCAGCCACCAGGCTCTCTGCA  
 GCATTTATTATTGAAAGAACAATGCGACAGCAAAAGCTTCTGTAGCTGGTGGAGTTCCTTACATCCT  
 CAGTCTCCCTTGCAACAAAAGAGAGAATTTACCTGGCATTAGAGGTACCCACAATTTGCCCGTCACA  
 GACCCCTGAACCGAACCCAGTCTGCACCTTTGCCTCAGAGCACGTTGGCTCAGCTGGTCAATCAACAGCA  
 ACACCAGCAATCTTGGAGAAGCAGAAGCAATACCAGCAGCAGATCCACATGAACAAACTGCTTTGAAA  
 TCTATTGAACAAGTGAAGCAACAGGCAGTACCTTGGGAAGCAGAGGAAGAGCTTCAGGGGGACCAGG  
 CGATGCAGGAAGACAGAGCGCCCTCTAGTGGAACAGCACTAGGAGCGACAGCAGTGTGTGTGGATGA  
 CACTGGGACAAGTGGGGCTGTGAAGGTCAAGGAGAAACCAGTGGACAGTGTGAAGATGCTCAGATC  
 CAGGAAATGGAATCTGGGGAGCAGGCTGCTTTTATGCAACAGGTAAAGGCAAGATTTAGCTCCAGGAT  
 TTGTAATTAAGTCATTATC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG215267 representing NM\_014707  
 Red=Cloning site Green=Tags(s)

MHSMISSVDKSEVPVGLPISPLDLRDLRMMMPVVDVVPVREKQLQQELLLIQQQQIQKQLLIEFQK  
 QHENLTRQHQAQLQEHIKELLAIKQQELLEKEQKLEQQRQEVEVERHRREQLPPLRGKDRGRERAVAS  
 TEVKQKLQEFLLSKSATKDTPTNGKNHVSVRHPKLWYTAHHTSLDQSSPPLSGTSPSYKYTLPGAQDAK  
 DDFPLRKTASEP NLKVRSLKQKVAERRSSPLLRRKDGNVVTSFKKRMFEVTESSVSSSPGSGPSSPNN  
 GPTGSVTENETSVLPPTPHAEQMVQQRILIHEDSMNLLSLYTSPLPNITLGLPAVPSQLNASNLKEK  
 QKCETQLRQGVPLPGQYGGSIASSSHPHVTLEGKPPNSSHQALLQHLLLKEQMRQKLLVAGGVPLHP  
 QSPLATKERISPGIRGTHKLPRHRPLNRTQSAPLPQSTLAQLVIQQHQHFLEKQKQYQQQIHMNKLLSK  
 SIEQLKQPGSHLEEAEEELQGDQAMQEDRAPSSGNSTRSDSSACVDDTLGQVAVKVKKEEPVDSDEDAQI  
 QEMESGEQAAMQVIGKDLAPGFVIKVII

**TRTRPLE** – GFP Tag – V

**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

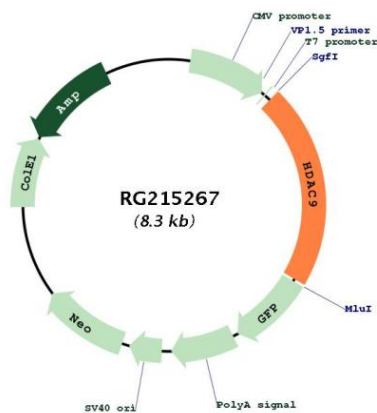
**UniProt ID:** [Q9UKV0](#)

**Cytogenetics:** 7p21.1

**Protein Families:** Druggable Genome, Transcription Factors

**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 RG215267