

## Product datasheet for **RG234322**

### HDAC9 (NM\_001204147) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC9 (NM_001204147) 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:**

>RG234322 representing NM\_001204147  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGATGCCCGTGGTGGACCCTGTTGTCCGTGAGAAGCAATTGCAGCAGGAATTACTTCTTATCCAGC  
 AGCAGCAACAAATCCAGAAGCAGCTTCTGATAGCAGAGTTTCAGAAACAGCATGAGAATTGACACGGCA  
 GCACCAGGCTCAGCTTCAGGAGCATATCAAGAACTTCTAGCCATAAAACAGCAACAAGAACTCCTAGAA  
 AAGGAGCAGAAACTGGAGCAGCAGAGGCAAGAACAGGAAGTAGAGAGGCATCGCAGAGAACAGCAGCTTC  
 CTCCTCTCAGAGGCAAAGATAGAGGACGAGAAAGGGCAGTGGCAAGTACAGAAAGTAAAGCAGAAGCTTCA  
 AGAGTTCCTACTGAGTAAATCAGCAACGAAAGACACTCCAATAATGGAAAAATCATTCCGTGAGCCGC  
 CATCCCAAGCTCTGGCTGCCACCACACATCATTGGATCAAAGCTCTCCACCCCTTAGTGAACATCTC  
 CATCCTACAAGTACACATTACCAGGAGCACAAGATGCAAAGGATGATTTCCCTTCGAAAACTGAATC  
 CTCAGTCAGTAGCAGTTCTCCAGGCTCTGGTCCCAGTTCACCAACAATGGGCCAACTGGAAGTGTACT  
 GAAAAATGAGACTTCGGTTTTGCCCCCTACCCCTCATGCCGAGCAAATGGTTTCACAGCAACGCATTCTAA  
 TTCATGAAGATCCATGAACCTGCTAAGCTTTATACCTCTCCTTCTTTGCCCAACATTACCTTGGGGCT  
 TCCCGCAGTGCCATCCCAGCTCAATGCTTCAATCACTCAAAGAAAAGCAGAAGTGTGAGACGCAGACG  
 CTTAGGCAAGGTGTTCTCTGCCTGGGCAGTATGGAGGCAGCATCCCGGCATCTCCAGCCACCCTCATG  
 TTACTTTAGAGGGAAAGCCACCAACAGCAGCCACCAGGCTCTCCTGCAGCATTTATTATTGAAAGAACA  
 AATGCGACAGCAAAGCTTCTTGTAGCTGGTGGAGTCCCTTACATCCTCAGTCTCCCTTGGCAACAAA  
 GAGAGAATTTACCTGGCATTAGAGTACCCACAAATGGCCCGTCACAGACCCCTGAACCGAACCCAGT  
 CTGCACCTTTGCCTCAGAGCAGTTGGCTCAGCTGGTCATTCAACAGCAACACCAGCAATCTTGGAGAA  
 GCAGAAGCAATACCAGCAGCAGATCCACATGAACAAACTGCTTTGAAATCTATTGAACAACTGAAGCAA  
 CCAGGCAGTCACCTTGAGGAAGCAGAGGAAGAGCTTCAGGGGGACCAGGCATGCAGGAAGCAGAGCGC  
 CCTCTAGTGGCAACAGCACTAGGAGCGACAGCAGTGTGTTGTGGATGACACACTGGGACAAGTTGGGGC  
 TGTGAAGGTCAAGGAGGAACCAAGTGGACAGTGTGAAGATGCTCAGATCCAGGAAATGGAATCTGGGGAG  
 CAGGCTGCTTTTATGCAACAGGTAATAGGCAAAGATTTAGCTCCAGGATTTGTAATTAAGTCATTATC

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG234322 representing NM\_001204147  
 Red=Cloning site Green=Tags(s)

MMMPVDPVVRKQLQEELLIQQQQIQQKQLLAEFQKQHENLTRHQHQAQLQEHIKELLAIKQQQELLE  
 KEQKLEQQRQEVEVERHRRQQLPPLRGKDRGRERAVASTEVEKQLQEFLLSKATKDTPTNGKNHSVSR  
 HPKLWAAHHTSLDQSSPPLSGTSPSYKYTLPGAQDAKDDFPLRKTSSVSSSSPGSGPSSPNNPTGCVT  
 ENETSVLPPTPHAEQMVSSQQRILIHEDSMNLLSLYTSPSLPNITLGLPAVPSQLNASNSLKEKQKQKQKQ  
 LRQGVPLPGQYGGSIIPASSSHPHVTLEGKPPNSSHQALLQHLLKEQMRQKLLVAGGVPLHPQSPLATK  
 ERISPIRGTHKLPVHRPLNRTQSAPLPQSTLAQLVIQQQHQQFLEKQKQYQQQIHMNKLLSKSIEQLKQ  
 PGSHLEEAEEELQGDQAMQEDRAPSSGNSTRSDSSACVDDTLGQVGVAVKVEEVPVSDSDAQIQEMESGE  
 QAAFQQVIGKDLAPGFVIKVII

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001204147

**ORF Size:** 1539 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\\_001204147.3](#)

**RefSeq Size:** 4118 bp

**RefSeq ORF:** 1542 bp

**Locus ID:** 9734

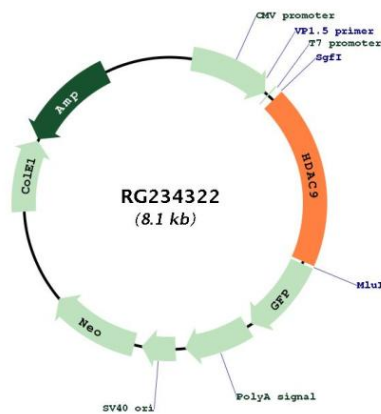
**UniProt ID:** [Q9UKV0](#)

**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 RG234322