

Product datasheet for **RG234500**

HDAC9 (NM_001204144) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC9 (NM_001204144) 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:

>RG234500 representing NM_001204144
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGAGCTCACCTGCACAGCCTGACCTCATGTGGAACCTTGACCATGGGTGCTATTCTGTGGCTGCT
 GTAGGATCTTCCAGATGGGGTGGCTGGACGAGAGCAGCTCTGGCTCAGCAAAGAATGCACAGTATGAT
 CAGCTCAGTGGATGTGAAGTCAGAAGTCTCTGTGGCCTGGAGCCATCTCACCTTTAGACCTAAGGACA
 GACCTCAGGATGATGATGCCCGTGGTGGACCCTGTTGTCCGTGAGAAGCAATTGCAGCAGGAATTACTTC
 TTATCCAGCAGCAGCAACAAATCCAGAAGCAGCTTCTGATAGCAGAGTTTCAGAAACAGCATGAGAACTT
 GACACGGCAGCACCAGGCTCAGCTTCAGGAGCATATCAAGGAACCTTAGCCATAAAACAGCAACAAGAA
 CTCCTAGAAAAGGAGCAGAACTGGAGCAGCAGAGGCAAGAACAGGAAGTAGAGAGGCATCGCAGAGAAC
 AGCAGCTTCTCCTCTCAGAGGCAAAGATAGAGGACGAGAAAGGGCAGTGGCAAGTACAGAAGTAAAGCA
 GAAGTTCAGAGTTCCTACTGAGTAAATCAGCAACGAAAGACTCCAATAATGGAAAAATCATTCC
 GTGAGCCGCCATCCCAAGCTCTGGTACACGGCTGCCACCACACATCATTGGATCAAAGCTCTCCACCCC
 TTAGTGGAACATCTCCATCCTACAAGTACACATTACCAGGAGCACAAGATGCAAAGGATGATTTCCCCCT
 TCGAAAACTGAATCCTCAGTCAGTAGCAGTTCTCCAGGCTCTGGTCCCAGTTCCACAAACAATGGGCCA
 ACTGGAAGTGTTACTGAAAATGAGACTTCGGTTTTGCCCCCTACCCCTCATGCCGAGCAAATGGTTTCAC
 AGCAACGCATTCTAATTCATGAAGATCCATGAACCTGCTAAGTCTTTATACCTCTCTTTGCCCAA
 CATTACCTTGGGGCTTCCCGCAGTGCCATCCAGCTCAATGCTTCGAATTCACCTCAAAGAAAAGCAGAAG
 TGTGAGACGCAGACGCTTAGGCAAGGTGTTCTCTGCTGGGCAGTATGGAGGCAGCATCCCGGCATCTT
 CCAGCCACCCTCATGTTACTTTAGAGGAAAGCCACCCAACAGCAGCCACCAGGCTCTCCTGCAGCATT
 ATTATTGAAAGAACAATGCGACAGCAAAAGCTTCTTGTAGCTGGTGGAGTTCCTTACATCCTCAGTCT
 CCCTTGGCAACAAAAGAGAGAATTTACCTGGCATTAGAGGTACCCACAATGCCCCGTACAGACCCC
 TGAACCGAACCCAGTCTGCACCTTTGCCTCAGAGCACGTTGGCTCAGCTGGTCATTCAACAGCAACACCA
 GCAATTCTTGAGAAGCAGAAGCAATACCAGCAGCAGATCCACATGAACAACTGCTTTGAAAATCTATT
 GAACAACGAAGCAACCAGGCAGTCACCTTGAGGAAGCAGAGGAAGAGCTTCAGGGGACCAGGCGATGC
 AGGAAGACAGAGCGCCCTCTAGTGGCAACAGCACTAGGAGCGACAGCAGTCTTGTGTGGATGACACACT
 GGGACAAGTTGGGGCTGTGAAGTCAAGGAGGAACCAGTGACAGTATGAAGATGCTCAGATCCAGGAA
 ATGGAATCTGGGAGCAGGCTGCTTTTATGCAACAGGTAATAGGCAAAGATTTAGCTCCAGGATTTGTA
 TAAAGTCATTATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234500 representing NM_001204144
 Red=Cloning site Green=Tags(s)

MMSSPAQPDLMWNLVPWVLCGCCRIFPDGVAGREQLLAQORMHSMISSVDVKSEVPVGLPI SPLDLRT
 DLRMMMPVVDPVVREKQLQQEQLLIQQQQIQKQLLIAEFQKQHENLTRQHQAQLQEHKELLAIKQQQE
 LLEKEQKLEQQRQEVEVERHREQLPPLRGKDRGRERAVASTEYKQKLEFLLSKSATKDTPTNGKNHS
 VSRHPKLWYAAHHTSLDQSSPPLSGTSPSYKYTLPGAQDAKDDFPLRKTESSVSSSPGSGPSSPNNGP
 TGSVTENETSVLPPTPHAEQMVSSQQRILIHEDSMNLLSLYTSPLPNITLGLPAVPSQLNASNSLKEKQK
 CETQTLRQGVPLPGQYGGSI PASSSHPHVTLEGKPPNSSHQALLQHLLLEKQMRQKLLVAGGVPLHPQS
 PLATKERISPGIRGTHKLP RHRPLNRTQSAPLPQSTLAQLVIQQQHQQFLEKQKQYQQIHMNKLLSKSI
 EQLKQPGSHLEEAEEELQGDQAMQEDRAPSSGNSTRSDSSACVDDTLGQVGAVKVKEEPVDSDEDAQIQE
 MESGEQA AFMQQVIGKDLAPGFVIKVII

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001204144

ORF Size: 1764 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_001204144.3](#)

RefSeq Size: 4463 bp

RefSeq ORF: 1767 bp

Locus ID: 9734

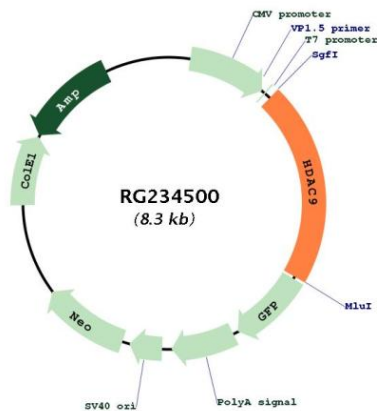
UniProt ID: [Q9UKV0](#)

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 RG234500