

Product datasheet for **MG209176**

Hdac9 (NM_024124) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hdac9 (NM_024124) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hdac9
Synonyms:	AV022454; D030072B18Rik; HD7B; HD9; Hdac7b; HDRP; Mitr; mKIAA0744
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209176 representing NM_024124
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCACAGTATGATCAGCTCAGTGGACGTGAAATCAGAGTTCTATGGGCTGGAGCCCATCTCACCTT
 TAGACCTGAGGACAGATCTCAGGATGATGATGCCTGTGGTGGATCCTGTGTCGCCGAGAAGCAACTGCA
 GCAAGAGTTACTTCTTATTTCAGCAGCAGCAGCAGATCCAGAAGCAGCTCCTCATAGCAGAGTTTCAGAAG
 CAGCACGAGAATTTGACAAGGCAGCATCAAGCACAACTCCAGGAGCACATCAAGGAACTTCTAGCCATAA
 AACACAGCAAGAATCTTAGAAAAGGAGCAGAACTGGAGCAGCAGAGGCAAGAACAGGAAGTAGAGAG
 GCATCGCAGAGAGCAGCAGCTTCTCCTCTCAGAGGCAAAGATAGAGGACGAGAAAGGCGAGTGGCAAGC
 ACAGAGGTTAAGCAGAAGCTTCAAGAATTCCTGTTGAGTAAATCAGCAACAAAAGACACTCCAACCAATG
 GAAAGAATCATTCCGTGGGCCCATCCCAAGCTCTGGTACACGGCTGCCACCACACATCACTGGATCA
 AAGCTCTCCACCCTCAGTGGAACTCTCCATCTACAAGTACACATTACCAGGAGCTCAAGATAGCAAG
 GATGATTTCCCTTGAGAAAACTGCCTCAGAGCCCAACTTGAAGGTGCGGTCCAGGTTAAAACAGAAAAG
 TGGCAGAGAGGAGAAGCAGTCCCTTACTCAGGCGGAAGGATGGAATCTTGTCACTTCATTCAAGAAGCG
 AGTGTGTTGAGGTGGCAGAATCCTCGTCACTAGCAGCTCTCCAGGGTCAAGTCCCAGTTCACCAAACAAT
 GGCCCTGCTGGGAATGTGACCGAAAAAGAGGCTTCAAGTCTGCCTCCCACGCCTCACCCGAGCAACTGG
 TTCCACAGCAGCGCATACTAATTCATGAAGATTCATGAACCTGCTAAGTCTCTATACTCCCGTCCCT
 GCCCAATCACTCTGGGACTTCCAGCAGTCCCGTCCCACTCAATGCTTCTAATCACTCAAAGACAAA
 CAGAAGTGCAGACACAGATGCTCAGACAAGGTGTTCTCTGCCAGTCAAGTGGCAGTCAAGTTCAGCAG
 GTCCTCCAGCCAGTTCATGTAGCAATGGAAGGAAAACCCAGCAGCCACCAGGCTCTCTGACAGCA
 CCTACTGCTGAAGGAACAAATGCGACAGCAAAAGCTTCTCGTGGCTGGTGGAGTTCATTACACCCTCAG
 TCTCCTTTGGCAACAAAAGAAAGATTTACCAGGCATTAGAGGTACCCACAAATGGCCCGCCACCAGC
 CCCTGAATCGAACCCAGTCTGCACCTTTGCCTCAGAGCAGCTGGCTCAGCTGGTCACTCAGCAGCAGCA
 CCAGCAGTTCCTGGAGAAGCAGAAACAATACCAGCAGCAGATCCACATGAACAACTGCTATCGAAATCT
 ATTGAACAACTGAAGCAACCAGGAGCCACCTTGAAGAAGCAGAGGAGGAGCTTCAAGGGGACCAATCCA
 TGGAAAGACAGAGCAGCTTAAGGACAACAGTGTAGGAGTGACAGCAGTGTGTTGTGGAGGACACGCT
 GGGACAAGTTGGGCTGTGAAGTCAAGGAGGAACCCGTGGACAGCGATGAAGATGCTCAGATACAGGAA
 ATGGAATGTGGGAGCAGGCTGCTTTATGCAACAGGTAATAGGCAAGATTTAGCTCCAGGATTTGTAA
 TTAAGTCATTATT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209176 representing NM_024124
 Red=Cloning site Green=Tags(s)

MHSMISSVDKSEVPMGLEPISPLDLRDLRMMMPVVDVVPVREKQLQQELLLIQQQQIQKQLLIEFQK
 QHENLTRQHQAQLQEHIKELLAIKQQELLEKEQKLEQQRQEVEVERHRREQLPPLRGKDRGRERAVAS
 TEVKQKLQEFLLSKSATKDTPTNGKNHNSVGRHPKLWYTAHHTSLDQSSPPLSGTSPSYKYTLPGAQDSK
 DDFPLRKTASEPNLKVRSRLKQKVAERRSSPLLRRKDGNLVTSFKKRVFEVAESSVSSSPGSGPSSPNN
 GPAGNVTENEASALPPTPHPEQLVPQQRILIHEDSMNLLSLYTSPLPNITLGLPAVPSPLNASNSLKDK
 QKQETQMLRQGVPLPSQYGSSIAASSSHVHVAMEGKPTSSHQALLQHLLKEQMRQKLLVAGGVPLHPQ
 SPLATKERISPGIRGTHKLP RHRPLNRTQSAPLPQSTLAQLVIQQHQHFLEKQKQYQQQIHMNKLLSKS
 IEQLKQPGSHLEAEELQGDQSMEDRAASKDNSARSDSSACVEDTLGQVGAVKVKEEPVDSDEDAQIQE
 MECGEQAAMQVIGKDLAPGFVIKVII

TRTRPLE – GFP Tag – V

Restriction Sites:

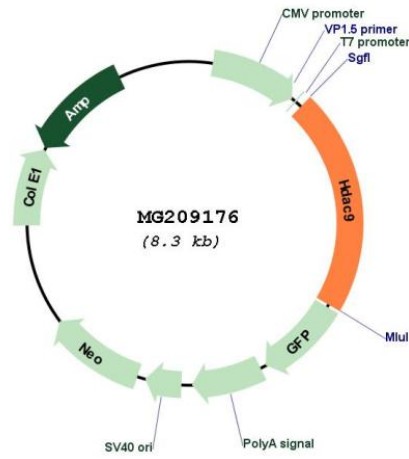
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_024124
 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:	<ol style="list-style-type: none">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_024124.3 , NP_077038.2
RefSeq Size:	4461 bp
RefSeq ORF:	1767 bp
Locus ID:	79221
UniProt ID:	Q99N13
Cytogenetics:	12 A3
Gene Summary:	Devoided of intrinsic deacetylase activity, promotes the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4) by recruiting HDAC1 and HDAC3. Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Represses MEF2-dependent transcription, inhibits skeletal myogenesis and may be involved in heart development. Protects neurons from apoptosis, both by inhibiting JUN phosphorylation by MAPK10 and by repressing JUN transcription via HDAC1 recruitment to JUN promoter. [UniProtKB/Swiss-Prot Function]