

Product datasheet for RC224972

HDAC9 (NM_058176) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC9 (NM_058176) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HDAC9
Synonyms:	HD7; HD7b; HD9; HDAC; HDAC7; HDAC7B; HDAC9B; HDAC9FL; HDRP; MITR
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC224972 representing NM_058176 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCACAGTATGATCAGCTCAGTGGATGTGAAGTCAGAAGTTCCTGTGGCCTGGAGCCCATCTCACCTT
TAGACCTAAGGACAGACCTCAGGATGATGATGCCCGTGGTGGACCCTGTTGTCCGTGAGAAGCAATTGCA
GCAGGAATTACTTCTTATCCAGCAGCAGCAACAAATCCAGAAGCAGCTTCTGATAGCAGAGTTTCAGAAA
CAGCATGAGAAGTTCACACGGCAGCACCAGGCTCAGCTTCAGGAGCATATCAAGGAACTTCTAGCCATAA
AACAGCAACAAGAACTCTAGAAAAGGAGCAGAACTGGAGCAGCAGAGGCAAGAACAGGAAGTAGAGAG
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TGGCAGAGAGGAGAAGCAGCCCTTACTCAGGCGGAAGGATGAAATGTTGTCACCTTCAAGAAGCG
AATGTTTGAGGTGACAGAATCCTCAGTCAGTAGCAGTTCTCCAGGCTCTGGTCCCAGTTCACCAACAAT
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CGATGCAGGAAGACAGAGCGCCCTCTAGTGCCAACAGCACTAGGAGCGACAGCAGTGCTTGTGTGGATGA
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AAAGTATGCTTTAAAGTTCTCT
    
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
    
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Protein Sequence:

>RC224972 representing NM_058176
 Red=Cloning site Green=Tags(s)

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MHSMISSVDVKSEVPVGLLEPI SPLDLRDLRMMMPVVDPPVREKQLQQLLIIQQQQIQKQLLIAEFQK
QHENLTRQHQAQLQEHIKELLAIKQQELLEKEQKLEQQRQEVEVERHRREQQLPPLRGKDRGRERAVAS
TEVKQKLQEFLLSKSATKDTPTNGKNHSVSRHPKLWYTAHHTSLDQSSPPLSGTSPSYKYTLPGAQDAK
DDFPLRKTASEP NLKVRSLKQKVAERRSSPLLRRKDGNNVTSFKKRMFEVTESSVSSSSPGSGPSSPNN
GPTGSVTENETSVLPPTPHAEQMV SQQRILIHEDSMNLLSLYTSPLPNITLGLPAVPSQLNASLSLKEK
QK CETQTLRQGVPLPGYGGSI PASSSHPHVTLEGKPPNSSHQALLQHLLLKEQMRQKLLVAGGVPLHP
QSPLATKERISPGIRGTHKLPRHRPLNRTQSAPLPQSTLAQLVIQQHQHFLEKQKQYQQQIHMNKLLSK
SIEQLKQPGSHLEEAEEELQGDQAMQEDRAPSSGNSTRSDSSACVDDTLGQVAVKVKKEPVDSDEDAQI
QEMESGEQA AFMQPFLEPTHTRALSVRQAPLA AVGMDGLEKHRLVSRTHSSPAASVLPHPAMDRPLQPG
SATGIA YDPLMLKHQCVCN STTPEHAGRIQSIWSRLQETGLLNKCERIQGRKASLEEIQLVHSEHHS
LYGTNPLDGKLDPRILLGDDSQKFFSSLPCGG LGVSDTIWNELHSSGAARMAVGCVIELASKVASGEL
KNGFAVVRPPGHAEESTAMGFCFFNSVAITAKYLRDQLNISKILIVDLVHHGNGTQQAFYADPSILYI
SLHRYDEGNFFPGSGAPNEVGTGLGEGYINIAWTGGLDPPMGDVEYLEAFRTIVKPAKEFPDPMVLVS
AGFDALEGHTPPLGGYKVTAKCFGHLTKQLMTLADGRVVLALEGGHDLTAICDASEACVNALLGNELEPL
AEDILHQSPNMNAVISLQKIIIEIQSMSLKFS
    
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
    
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Restriction Sites:

Sgfl-MluI

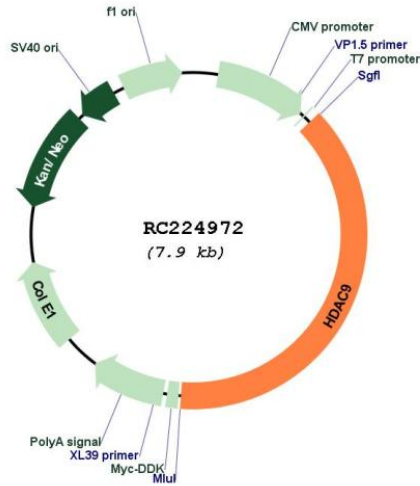
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_058176
 ORF Size: 3033 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_058176.2 , NP_478056.1
RefSeq Size:	3149 bp
RefSeq ORF:	3036 bp
Locus ID:	9734
UniProt ID:	Q9UKV0
Cytogenetics:	7p21.1
Protein Families:	Druggable Genome, Transcription Factors
MW:	111.3 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]