

Product datasheet for **RC218061**

HDAC9 (NM_178423) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|-----------------------------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | HDAC9 (NM_178423) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | HDAC9 |
| Synonyms: | HD7; HD7b; HD9; HDAC; HDAC7; HDAC7B; HDAC9B; HDAC9FL; HDRP; MITR |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC218061 representing NM_178423 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCACAGTATGATCAGCTCAGTGGATGTGAAGTCAGAAGTTCCTGTGGCCTGGAGCCCATCTCACCTT
TAGACCTAAGGACAGACCTCAGGATGATGATGCCCGTGGTGGACCCTGTTGTCCGTGAGAAGCAATTGCA
GCAGGAATTACTTCTTATCCAGCAGCAGCAACAAATCCAGAAGCAGCTTCTGATAGCAGAGTTTCAGAAA
CAGCATGAGAACTTGACACGGCAGCACCAGGCTCAGTTCAGGAGCATATCAAGGAATTCTAGCCATAA
AACAGCAACAAGAACTCCTAGAAAAGGAGCAGAACTGGAGCAGCAGAGGCAAGAACAGGAAGTAGAGAG
GCATCGCAGAGAACAGCAGCTTCTCCTCTCAGAGGCAAAGATAGAGGACGAGAAAGGGCAGTGGCAAGT
ACAGAAGTAAAGCAGAAGCTTCAAGAGTTCCTACTGAGTAAATCAGCAACGAAAGACACTCCAACCTAATG
GAAAAATCATTCCGTGAGCCGCCATCCCAAGCTCTGGTACACGGCTGCCACCACACATCATTGGATCA
AAGCTCTCCACCCCTTAGTGGAACATCTCCATCTACAAGTACACATTACCAGGAGCACAAGATGCAAAAG
GATGATTTCCCCCTTCGAAAACTGCCTCTGAGCCCAACTGAAGGTGCCGTCCAGGTTAAAACAGAAAAG
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AATGTTTGAGGTGACAGAATCCTCAGTCAGTAGCAGTTCTCCAGGCTCTGGTCCCAGTTCACCAACAAT
GGGCCAACTGGAAGTGTACTGAAAATGAGACTTCGGTTTTGCCCCCTACCCCTCATGCCGAGCAAATGG
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GCCCAACATTACCTTGGGGCTTCCCGCAGTGCCATCCCAGCTCAATGCTTCAATTCCTCAAAAGAAAAG
CAGAAGTGTGAGACGCAGACGCTTAGGCAAGGTGTTCTCTGCCTGGCAGTATGGAGGCAGCATCCCGG
CATCTTCCAGCCACCCTCATGTTACTTTAGAGGGAAAAGCCACCCAACAGCAGCCACCAGGCTCTCCTGCA
GCATTTATTATTGAAAGAACAATGCGACAGCAAAAGCTTCTTGTAGCTGGTGGAGTTCCCTTACATCCT
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GACCCCTGAACCGAACCCAGTCTGCACCTTTGCCTCAGAGCACGTTGGCTCAGCTGGTCATTCAACAGCA
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TCTATTGAACAACCTGAAGCAACCAGGCAGTCACCTTGAGGAAGCAGAGGAAGAGCTTCAGGGGGACCAGG
 CGATGCAGGAAGACAGAGCGCCCTCTAGTGGCAACAGCACTAGGAGCGACAGCAGTGTCTGTGTGGATGA
 CACACTGGGACAAGTTGGGGCTGTGAAGGTCAAGGAGGAACCACTGGACAGTGTGAAGATGCTCAGATC
 CAGGAAATGGAATCTGGGGAGCAGGCTGCTTTTATGCAACAGCCTTTCTGGAACCCACGCACACACGTG
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 ACCCTGAGCATGCTGGACGAATACAGAGTATCTGGTCACGACTGCAAGAACTGGGCTGCTAAATAAATG
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 AAGAATGGGTTTGTGTTGTGAGGCCCCCTGGCCATCACGCTGAAGAATCCACAGCCATGGGTTTCTGCT
 TTTTAAATTCAGTTGCAATTACCGCAAATACTTGAGAGACCAACTAAATAAAGCAAGATATTGATTGT
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 GCTGGATTTGATGATTGGAAGGCCACACCCCTCCTCTAGGAGGGTACAAAGTACAGGCAAAATGTTTTG
 GTCATTTGACGAAGCAATTGATGACATTGGCTGATGGACGTGTGGTGTGGCTCTAGAAGGAGGACATGA
 TCTCACAGCCATCTGTGATGCATCAGAAGCCTGTGTAATGCCCTTCTAGGAAATGAGCTGGAGCCACTT
 GCAGAAGATATTCTCCACCAAAGCCGAATATGAATGCTGTTATTTCTTTACAGAAGATCATTGAAATTC
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 GCAAGAGGAGACAGAGACCGTTTTCTGCCCTGGCCTCCCTAACAGTGGATGTGGAACAGCCCTTTGCTCAG
 GAAGACAGCAGAACTGCTGGTGGCCTATGGAAGAGGAGCCAGCCTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218061 representing NM_178423
 Red=Cloning site Green=Tags(s)

MHSMISSVDKSEVPVGLPEISPLDLRDLRMMMPVVDPVVREKQLQQELLLIQQQQIQKQLLIAEFQK
 QHENLTRQHQAQLQEHIKELLAIKQQELLEKEQKLEQQRQEVEVERHRRQQPLPLRGKDRGRERAVAS
 TEVKQKLQEFLLSKSATKDTPTNGKNHVSVRHPKLWYTAHHTSLDQSSPPLSGTSPSYKYTLPGAQDAK
 DDFPLRKTASEPNLKVRSRLKQKVAERRSSPLLRKDGNNVTSFKKRMFEVTESSVSSSSPGSGPSSPNN
 GPTGSVTENETSVLPPTPHAEQMVSSQIRLIHEDSMNLLSLYTSPLPNITLGLPAVPSQLNASNSLKEK
 QKQETQLRQGVPLPGQYGGSSIPASSSHPHVTLEGKPPNSSHQALLQHLLLKEQMRQKLLVAGGVPLHP
 QSPLATKERISPGIRGTHKLPRHRPLNRTQSAPLPQSTLAQLVIQQHQHFLEKQKQYQQQIHMNKLKSK
 SIEQLKQPGSHLEEAEEELQGDQAMQEDRAPSSGNSTRSDSSACVDDTLGQVAVKVKKEPVDSDAQAQI
 QEMESGEQAAMQPFLEPTHTRALSVRQAPLAAVGMDGLEKHRLVSRTHSSPAASVLPHPAMDRPLQPG
 SATGAIYDPLMLKHQCVCGNSTTHPEHAGRIQSIWSRLQETGLLNKICERIQGRKASLEEIQLVHSEHSL
 LYGTNPLDGKLDPRILLGDDSQKFFSSLPCGGLGVSDTIWNLHSSGAARMAVGCVIELASKVASGEL
 KNGFAVVRPPGHHAEEESTAMGFCFFNSVAITAKYLRDQLNISKILIVDLVHHGNGTQQAFYADPSILYI
 SLHRYDEGNFFPGSGAPNEVGTGLGEGYNINIAWTGGLDPPMGDVEYLEAFRTIVKPVAKFDPDMVLVS
 AGFDALLEGHTPPLGGYKVTAKCFGHLTKQLMTLADGRVLALEGGHDLTAICDASEACVNALLGNELEPL
 AEDILHQSPNMNAVISLQKIIIEIQSKYQKSVRMVAVPRGCALAGAQLQEETETVSALASLTVDVEQPFQAQ
 EDSRTAGEPMEEEPAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg3235_b03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178423

ORF Size: 3198 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_178423.3](#)

RefSeq Size: 4659 bp

RefSeq ORF: 3201 bp

Locus ID: 9734

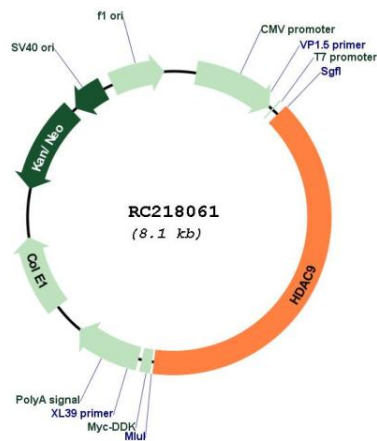
UniProt ID: [Q9UKV0](#)

Cytogenetics: 7p21.1
Protein Families: Druggable Genome, Transcription Factors

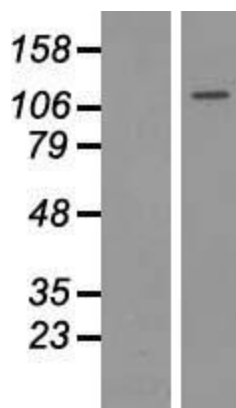
MW: 117 kDa

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]

Product images:



Circular map for RC218061



Western blot validation of overexpression lysate (Cat# [LY403601]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218061 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).