

Product datasheet for **RG218061**

HDAC9 (NM_178423) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC9 (NM_178423) 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)
ORF Nucleotide Sequence:	>RG218061 representing NM_178423 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCACAGTATGATCAGCTCAGTGGATGTGAAGTCAGAAGTTCCTGTGGCCTGGAGCCCATCTCACCTT
TAGACCTAAGGACAGACCTCAGGATGATGATGCCCGTGGTGGACCCTGTTGTCCGTGAGAAGCAATTGCA
GCAGGAATTACTTCTTATCCAGCAGCAGCAACAAATCCAGAAGCAGCTTCTGATAGCAGAGTTTCAGAAA
CAGCATGAGAAGTTGACACGGCAGCACCAGGCTCAGTTCAGGAGCATATCAAGGAAGTTCTAGCCATAA
AACAGCAACAAGAACTCCTAGAAAAGGAGCAGAACTGGAGCAGCAGAGGCAAGAACAGGAAGTAGAGAG
GCATCGCAGAGAACAGCAGCTTCTCCTCTCAGAGGCAAGATAGAGGACGAGAAAGGGCAGTGGCAAGT
ACAGAAGTAAAGCAGAAGCTTCAAGAGTTCCTACTGAGTAAATCAGCAACGAAAGACACTCCAACCTAATG
GAAAAATCATTCCGTGAGCCGCCATCCCAAGCTCTGGTACACGGCTGCCACCACACATCATTGGATCA
AAGCTCTCCACCCCTTAGTGGAACATCTCCATCTACAAGTACACATTACCAGGAGCACAAGATGCAAAAG
GATGATTTCCCCCTTCGAAAACTGCCTCTGAGCCCAACTGAAGGTGCCGTCCAGGTTAAAACAGAAAAG
TGGCAGAGAGGAGAAGCAGCCCTTACTCAGGCGGAAGGATGGAATGTTGTCACTTCATTCAAGAAGCG
AATGTTTGAGGTGACAGAATCCTCAGTCAGTAGCAGTTCTCCAGGCTCTGGTCCCAGTTCACCAACAAT
GGGCCAACTGGAAGTGTACTGAAAATGAGACTTCGGTTTTGCCCTACCCCTCATGCCGAGCAAATGG
TTTCACAGCAACGCATTCTAATTCATGAAGATTCCATGAACCTGCTAAGTCTTTATACCTCTCCTTCTTT
GCCCAACATTACCTTGGGGCTTCCCGCAGTGCCATCCCAGCTCAATGCTTCAATTCCTCAAAAGAAAAG
CAGAAGTGTGAGACGCAGACGCTTAGGCAAGGTGTTCTCTGCCTGGCAGTATGGAGGCAGCATCCCGG
CATCTTCCAGCCACCCTCATGTTACTTTAGAGGAAAAGCCACCCAACAGCAGCCACCAGGCTCTCCTGCA
GCATTTATTATTGAAAGAACAATGCGACAGCAAAAGCTTCTTGTAGCTGGTGGAGTTCCCTTACATCCT
CAGTCTCCCTTGCAACAAAAGAGAGAATTTACCTGGCATTAGAGGTACCCACAATTTGCCCGTCACA
GACCCCTGAACCGAACCCAGTCTGCACCTTTGCCTCAGAGCACGTTGGCTCAGCTGGTCATTCAACAGCA
ACACCAGCAATTCTTGGAGAAGCAGAAGCAATACCAGCAGCAGATCCACATGAACAAACTGCTTTCGAAA



[View online >](#)

TCTATTGAACAACCTGAAGCAACCAGGCAGTCACCTTGAGGAAGCAGAGGAAGAGCTTCAGGGGGACCAGG
 CGATGCAGGAAGACAGAGCGCCCTCTAGTGGCAACAGCACTAGGAGCGACAGCAGTGTCTGTGTGGATGA
 CACTGGGACAAGTTGGGGCTGTGAAGGTCAAGGAGGAACCACTGGACAGTGTGAAGATGCTCAGATC
 CAGGAAATGGAATCTGGGGAGCAGGCTGCTTTTATGCAACAGCCTTTCTGGAACCCACGCACACACGTG
 CGCTCTGTGCGCAAGCTCCGCTGGCTGCGGTTGGCATGGATGGATTAGAGAAACACCGTCTCGTCTC
 CAGGACTACTCTCCCCTGCTGCCTCTGTTTTACCTCACCCAGCAATGGACCGCCCCCTCCAGCCTGGC
 TCTGCAACTGGAATTGCCTATGACCCCTTGATGCTGAAACACCAGTGCCTTTGTGGCAATCCACCACCC
 ACCCTGAGCATGCTGGACGAATACAGAGTATCTGGTCACGACTGCAAGAACTGGGCTGCTAAATAAATG
 TGAGCAATTCAAGTTCGAAAAGCCAGCCTGGAGGAAATACAGCTTGTTCATTCTGAACATCACTCACTG
 TTGTATGGCACCACCCCTGGACGACAGAAGCTGGACCCAGGATACTCCTAGGTGATGACTCTCAAA
 AGTTTTTTCTCATTACCTTGTGGTGGACTTGGGGTGGACAGTACACCATTTGGAATGAGCTACACTC
 GTCCGGTGTGCACGCATGGCTTGTGGCTGTGTCATCGAGCTGGCTTCCAAAGTGGCCTCAGGAGAGCTG
 AAGAATGGGTTTGTGTTGTGAGGCCCTGGCCATCACGCTGAAGAATCCACAGCCATGGGTTTCTGCT
 TTTTAATTCAAGTTCGCAATTACCGCAAATACTTGAGAGACCACTAAATAAAGCAAGATATTGATTGT
 AGATCTGGATGTTCAACATGGAACGGTACCCAGCAGGCTTTTATGCTGACCCAGCATCTGTACATT
 TCACTCCATCGCTATGATGAAGGAACTTTTTCCCTGGCAGTGGAGCCCCAAATGAGTTGGAACAGGCC
 TTGGAGAAGGTACAATAAATAATTGCCTGGACAGGTGGCCTTGATCCTCCCATGGGAGATGTTGAGTA
 CCTTGAAGCATTAGGACCATCGTGAAGCCTGTGGCCAAAGAGTTTATCCAGACATGGTCTTAGTATCT
 GCTGGATTTGATGATTGAAGGCCACACCCCTCCTCTAGGAGGGTACAAAGTACGCGCAAAATGTTTTG
 GTCATTTGACGAAGCAATTGATGACATTGGCTGATGGACGTGTGGTGTGGCTCTAGAAGGAGGACATGA
 TCTCACAGCCATCTGTGATGCATCAGAAGCCTGTGTAATGCCCTTCTAGGAAATGAGCTGGAGCCACT
 GCAGAAGATATTCTCCACCAAGCCGAATATGAATGCTGTTATTTCTTTACAGAAGATCATTGAAATTC
 AAAGCAAGTATTGGAAGTCAGTAAGGATGGTGGCTGTGCCAAGGGGCTGTGCTGTGGCTGGTCTCAGT
 GCAAGAGGAGACAGAGACCGTTTCTGCCCTGGCCTCCCTAACAGTGGATGTGGAACAGCCCTTTGCTCAG
 GAAGACAGCAGAACTGCTGGTGGCCTATGGAAGAGGAGCCAGCCTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG218061 representing NM_178423

Red=Cloning site Green=Tags(s)

MHSMISSVDKSEVPVGLPEISPLDLRDLRMMMPVVDVREKQLQELLELIQQQQIQKQLLIAEFQK
 QHENLTRQHQAQLQEHIKELLAIKQQELLEKEQKLEQQRQEVEVERHRREQLPPLRGKDRGRERAVAS
 TEVKQKLQEFLLSKSATKDTPTNGKNHSVSRHPKLWYTAHHTSLDQSSPPLSGTSPSYKYTLPGAQDAK
 DDFPLRKTASEPNLKVRSRLKQKVAERRSSPLLRKDGNVVTSFKKRMFEVTESSVSSSPGSGPSSPNN
 GPTGSVTENETSVLPPTPHAEQMVQQRILIHEDSMNLLSLYTSPLPNITLGLPAVPSQLNASNSLKEK
 QKCETQTLRQGVPLPGQYGGSIASSSHPHVTLEGKPPNSHQALLQHLLKEQMRQKLLVAGGVPLHP
 QSPLATKERISPGIRGTHKLPVHRPLNRTQSAPLPQSTLAQLVIQQQHQQFLEKQKQYQQQIHMNKLLSK
 SIEQLKQPGSHLEEAEEELQGDQAMQEDRAPSSGNSTRSDSSACVDDTLGQVAVKVKKEPVDSEDAQI
 QEMESGEQAQAFMQPFLEPHTRALSVRQAPLAAVGMGDKHRLVSRTHSSPAASVLPHPAMDRPLQPG
 SATGAIYDPLMLKHQVCVGNSTTHPEHAGRIQSIWSRLQETGLLNKICERIQRKASLEEIQLVHSEHSL
 LYGTNPLDGKLDPRILLGDDSQKFFSSSLPCGGLGVSDTIWNLHSSGAARMAVGCVIELASKVASGEL
 KNGFAVVRPPGHAEESTAMGFCFFNSVAITAKYLRDQLNISKILIVDLVHHNGTQQAFYADPSILYI
 SLHRYDEGNFFPGSGAPNEVGTGLGEGYNINIAWTGGLDPPMGDVEYLEAFRTIVKPVAKFDPDMVLVS
 AGFDALLEGHTPPLGGYKVTAKCFGHLTKQLMTLADGRVVLALEGGHDLTICDASEACVNALLGNELEPL
 AEDILHQSPNMNAVISLQKIIIEIQSKYWKSVRMVAVPRGCALAGAQLQEETETVSALASLTVDVEQPPFAQ
 EDSRTAGEPMEEEPAL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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](#)

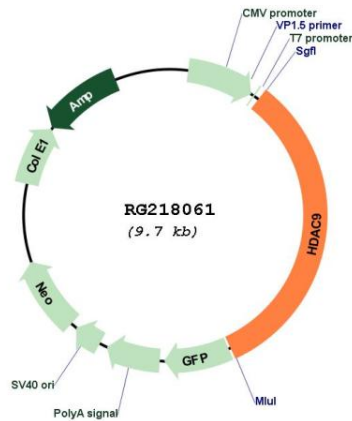
RefSeq Size: 4659 bp

RefSeq ORF: 3201 bp

Locus ID: 9734

UniProt ID: [Q9UKV0](#)
Cytogenetics: 7p21.1
Protein Families: Druggable Genome, Transcription Factors
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 RG218061