

Product datasheet for **SC110089**

HDAC9 (NM_014707) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC9 (NM_014707) Human Untagged Clone
Tag:	Tag Free
Symbol:	HDAC9
Synonyms:	HD7; HD7b; HD9; HDAC; HDAC7; HDAC7B; HDAC9B; HDAC9FL; HDRP; MITR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC110089 sequence for NM_014707 edited (data generated by NextGen Sequencing)

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ATGCACAGTATGATCAGCTCAGTGGATGTGAAGTCAGAAGTTCCTGTGGGCCTGGAGCCC
ATCTCACCTTTAGACCTAAGGACAGACCTCAGGATGATGATGCCCGTGGTGGACCTGTT
GTCCGTGAGAAGCAATTGCAGCAGGAATTACTTCTTATCCAGCAGCAGCAACAAATCCAG
AAGCAGCTTCTGATAGCAGAGTTTCAGAAACAGCATGAGAAGTTCACACGGCAGCACCAG
GCTCAGCTTCAGGAGCATATCAAGGAAGTCTAGCCATAAAACAGCAACAAGAATCCTA
GAAAAGGAGCAGAACTGGAGCAGCAGAGCAAGAACAGGAAGTAGAGAGGCATCGCAGA
GAACAGCAGCTTCTCCTCTCAGAGGCAAGATAGAGGACGAGAAAGGGCAGTGGCAAGT
ACAGAAGTAAAGCAGAAGCTTCAAGAGTTCCTACTGAGTAAATCAGCAACGAAAGACACT
CCAATAATGGAAAAATCATTCCGTGAGCCGCCATCCAAGCTCTGGTACACGGCTGCC
CACCACACATCATTGGATCAAAGCTCTCCACCCCTTAGTGAACATCTCCATCTACAAG
TACACATTACCAGGAGCACAAGATGCAAAGGATGATTTCCCCCTTCGAAAACTGCCTCT
GAGCCCAACTTGAAGGTGCGGTCCAGGTAAAACAGAAAGTGGCAGAGAGGAGAAGCAGC
CCCTTACTCAGGGGAAGGATGGAATGTTGTCACCTTCAAGAAGCGAATGTTTGAG
GTGACAGAATCCTCAGTCAGTAGCAGTTCTCCAGGCTCTGGTCCCAGTTCACCAACAAT
GGGCCAACTGGAAGTGTTACTGAAAATGAGACTTCGGTTTTGCCCCCTACCCCTCATGCC
GAGCAATGGTTTACAGCAACGCATTCTAATTCATGAAGATTCATGAACCTGTAAAGT
CTTTATACCTCTCCTTTTGGCCAACATTACCTTGGGGCTTCCCGCAGTGCCATCCCAG
CTCAATGCTTTCGAATTCCTCAAAGAAAAGCAGAAGTGTGAGACGCAGACGCTTAGGCAA
GGTGTTCCTCTGCCTGGGCAGTATGGAGGCAGCATCCCGGCATCTCCAGCCACCTCAT
GTTACTTTAGAGGAAAAGCCACCCAACAGCAGCCACCAGGCTCTCCTGCAGCATTATTA
TTGAAAGAACAATGCGACAGCAAAAAGCTTCTTGTAGCTGGTGGAGTTCCTTACATCT
CAGTCTCCCTTGGCAACAAAAGAGAGAATTTACCTGGCATTAGAGGTACCCACAATTTG
CCCCGTACAGACCCCTGAACCGAACCCAGTCTGCACCTTTGCCTCAGAGCAGTTGGCT
CAGCTGGTCATTCAACAGCAACACCAGCAATTCTTGGAGAAGCAGAAGCAATACCAGCAG
CAGATCCACATGAACAACTGCTTTGAAATCTATTGAACAACTGAAGCAACCAGGCAGT
CACCTTGAGGAAGCAGAGGAAGAGCTTCAGGGGGACCAGGCGATGCAGGAAGACAGAGCG
CCCTCTAGTGGCAACAGCACTAGGAGCGACAGCAGTGTGTGTGGATGACACACTGGGA
CAAGTTGGGGCTGTGAAGGTCAAGGAGGAACCAGTGGACAGTGTGAAGATGCTCAGATC
CAGGAAATGGAATCTGGGGAGCAGGCTGCTTTTATGCAACAGGTAAATAGGCAAAGATTTA
GCTCCAGGATTTGTAATTAAGTCATTATCTGA
    
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Clone variation with respect to NM_014707.1

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014707 unedited

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AATACGACTCACTATAGGGCGGCCGCAATTCGGCAGCAGGCTCCTCTAGCGCCCGCCG
GGCCGGTAAATCTCGGCTGGAGGAGCAGCGCGGCCCGAGTCAACTTTTATTCCCTTT
TTGCTTCTGCCTCACCATTCTTCTCCTCCTCGAAAGATGGCTGTTTGGAGAAGGGGA
GAAGTTAAGAGGTGCGCAGCGGGAGCGAAGGAGGGCGGATAGCCTCAGCAGGAGCGGG
CGGAGGTTTCTCCTCTGCCAACCCCTCCTGGACCATTGTCAGCAGTTGAACGACAAAGGC
TGTGAATCTGCATCCTAGTCTTAGCAGTCCCTCTGATTCTCATGATGAGCTCACCTGCAC
AGCCTGATGGGGTGGCTGGACGAGAGCAGCTCTTGGCTCAGCAAGAATGCACAGTATGA
TCAGCTCAGTGGATGTGAAGTCAGAAGTTCCTGTGGCCCTGGAGCCATCTCACCTTTAG
ACCTAAGGACAGACCTCAGGATGATGATGCCCGTGGTGGACCCTGTTGTCCGTGAGAAGC
AATTGCAGCAGGAATTACTTCTTATCCAGCAGCAGCAACAAATCCAGAAGCAGCTTCTGA
TAGCAGAGTTTCAGAAACAGCATGAGAAGTTCACACGGCAGCACCAGGCTCAGCTTCAGG
AGCATATCAAGGGACCTTCTAGCCATAAAACAGCACCCAGAAGTCTNAGANAGGAGCAG
ANACTGGAGCAGCAGAGGCCAGAACAGGAAGTAGAGAGGCATCGCAGAGAACAGCAGCTT
CCTCCTCTCAGAGGCAAGATAGAGGACGAGAANAGGCAGTGGNCAGTACAGAAAGTAAGC
AGAAGCTTNCAGNAGTTCCTACTGAGTAAATCAGCACCGAAAGACACTTCCACTATGGGG
AAAAATCATTCCGTGGGACCCGNTNCCG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014707 unedited AGCTCTGAAACGCGGCACGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTTTTCTTTTAA AAAACTTTTATCTTGAGAAAAGGGAANATACTTATAACAGAAGGCAAGAAGGAAACATA CAAACAATATATTTACAACACAAAACAAGAGATCACCTTCAAGGGTGAAATTATAATAA ATACAGTAGATTTTAAAAGAGACATTTATCAATTAATTCTAAGATTATTTAAGTCCAGCT TTCCTTTTCACTGGTCCAGGTAGTTTCTTGATTAATTCAAAGACTATCAAATTCAAAC AATTAACGTCCACCAACTGTACTGATGAACTCTCTCAAATGACATTATAAAAAATAGTT TTTTTGTGGTATTACATATCTTTGAAAGTAATTATACAAAAGTCTGCTCAGCCACA TGTTCCCTCCCAATAAAATGTATTTTAAAAGATGCACTATCCCTTTTTTATGAGATTGA AAAAAGACTTTGAAGAAAATGAATATTTATGAGATGGAAAAATATACAATTTTATCTTA GGCATGCCATATTTTAAATGCAAAACAAGTACAAAAGTCAATTTAATATGAAGGAATA TACTAACCAAAATATGTTGGTATAGGGAGTGTTCCTATTATAGCTATTTGTCAAATTAT CAGAAGGACTTTCATTATGTGGAAAACTTTAACTTTCTAACTTCTAGTTATGTTAATT TAATNTGAATGGAGACTTCTAAAAAGGATAATGTATCTTTAGCAGTAACATTTTTAAAG AAATATTTTAAATGTCACAGCAAAATGTTAACAACACGTGCCAATAACATACAGTTTGAA CAATGTCTACATTTGGCAAAACTGCTATATCTNCTTTGAAATAGGATACTACCCCTTGAA ATACCTCGGATTTAAAAATATAATATCTTAATAGAAAAAACCCCAAAGAATCTAAGCCA ATTGGATTTTCCTATAAAAGGGGCTAAA
Restriction Sites:	NotI-NotI
ACCN:	NM_014707
Insert Size:	4420 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_014707.1</u> , <u>NP_055522.1</u>
RefSeq Size:	4238 bp
RefSeq ORF:	1773 bp
Locus ID:	9734
UniProt ID:	<u>Q9UKV0</u>
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]

Transcript Variant: This variant (3) lacks multiple 3' exons and has an alternate 3' segment including the coding region and UTR, compared to variant 1. The resulting isoform 3, also known as HDRP, has a much shorter and distinct C-terminus, compared to isoform 1.