

## Product datasheet for **SC331505**

### HDAC9 (NM\_001204146) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HDAC9 (NM\_001204146) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** HDAC9  
**Synonyms:** HD7; HD7b; HD9; HDAC; HDAC7; HDAC7B; HDAC9B; HDAC9FL; HDRP; MITR  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC331505 representing NM\_001204146.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGCACAGTATGATCAGCTCAGTGGATGTGAAGTCAGAAGTTCCTGTGGGCCTGGAGCCCATCTCACCT
TTAGACCTAAGGACAGACCTCAGGATGATGATGCCCGTGGTGGACCCTGTTGTCCGTGAGAAGCAATTG
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AAACAGCATGAGAACTTGACACGGCAGCACCAGGCTCAGCTTCAGGAGCATATCAAGTTGCAACAGGAA
CTTCTAGCCATAAAACAGCAACAAGAATCCTAGAAAAGGAGCAGAACTGGAGCAGCAGAGGCAAGAA
CAGGAAGTAGAGAGGCATCGCAGAGAACAGCAGCTTCTCCTCTCAGAGGCAAAGATAGAGGACGAGAA
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AAGGAGGAACAGTGGACAGTGTGAAGATGCTCAGATCCAGGAAATGGAATCTGGGGAGCAGGCTGCT
TTTATGCAACAGGTAATAGGCAAGATTAGCTCCAGGATTTGTAATTAAGTCATTATCTGA
  
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**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001204146



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<b>Insert Size:</b>	1650 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001204146.1</a>
<b>RefSeq Size:</b>	4304 bp
<b>RefSeq ORF:</b>	1650 bp
<b>Locus ID:</b>	9734
<b>UniProt ID:</b>	<a href="#">Q9UKV0</a>
<b>Cytogenetics:</b>	7p21.1
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>MW:</b>	61.1 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (8) has an extended 5' UTR, differs in the 3' UTR and coding sequence, lacks an alternate in-frame exon, and uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (8) has a shorter and distinct C-terminus, lacks an internal segment, and contains an alternate short internal segment compared to isoform 1.</p>