

## Product datasheet for **SC106546**

### HDAC10 (NM\_032019) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC10 (NM_032019) Human Untagged Clone
Tag:	Tag Free
Symbol:	HDAC10
Synonyms:	HD10
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_032019, the custom clone sequence may differ by one or more nucleotides

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ATGGGGACCCGCGCTTGTGTACCATGAGGACATGACGGCCACCCGGCTGCTCTGGGACGACCCCGAGTGCG
AGATCGAGCGTCTGAGCGCCTGACCGCAGCCCTGGATCGCTGCGGCAGCGCGGCTGGAACAGAGGTG
TCTGCGGTTGTACAGCCCGAGGCTCGGAAGAGGAGCTGGGCCCTGGTGCACAGCCAGAGTATGTATCC
CTGGTCAGGGAGACCCAGGTCCTAGGCAAGGAGGAGCTGCAAGGCGCTGTCCGGACAGTTCGACGCCATCT
ACTTCCACCCGAGTACCTTTCACTGCGCGCGGCTGGCCGAGGGGCTGGACTGCAGCTGGTGGACGCTGT
GCTCACTGGAGCTGTGCAAAATGGGCTTGCCTGGTGGAGGCTCCCGGGCACCATGGCCAGAGGGCGGCT
GCCAACGGGTTCTGTGTGTTCAACAACGTGGCCATAGCAGCTGCACATGCCAAGCAGAAACAGGGCTAC
ACAGGATCCTCGTCGTGGACTGGGATGTGACCATGGCCAGGGGATCCAGTATCTCTTTGAGGATGACCC
CAGCGTCTTTACTTCTCCTGGCACCGCTATGAGCATGGGCGCTTCTGGCCTTTCTGCGAGAGTCAGAT
GCAGACGCAGTGGGGCGGGACAGGGCCTCGGCTTCACTGTCAACCTGCCCTGGAACCAGGTTGGGATGG
GAAACGCTGACTACGTGGCTGCCTTCTGCACCTGCTGCTCCACTGGCCTTTGAGTTTGACCTGAGCT
GGTGTCTGTCTCGGCAGGATTTGACTCAGCCATCGGGGACCCTGAGGGGCAAATGCAGGCCACGCCAGAG
TGCTTCGCCCACCTCACACAGCTGCTGCAGGTGCTGGCCGGCGGCGGGTCTGTGCCGTGCTGGAGGGCG
GCTACCACCTGGAGTCACTGGCGGAGTCACTGTGCATGACAGTACAGACGCTGCTGGGTGACCCGGCCCC
ACCCCTGTGAGGGCAAATGGCGCCATGTGAGAGTGCCCTAGAGTCCATCCAGAGTGCCCGTGTGCCAG
GCCCCGCACTGGAAGAGCCTCCAGCAGCAAGATGTGACCCTGTGCCGATGAGCCCCAGCAGCCACTCCC
CAGAGGGGAGGCTCCACCTCTGCTGCCTGGGGTCCAGTGTGTAAGGCAGTGCATCTGCACCGAGCTC
CCTCCTGGACAGCCGTGCCTTGCCTCCGACCCCTCTGTCGACCGCTGTTGCCCTGACAACGCCGGAT
ATCACATTTGTTCTGCCCTGACGTCACTCAACAGGAAGCGTCAGCCCTGAGGGAGGACAGACAGAACCT
GGGCCAGGCCACACGAGTCCCTGGCCCGGAGGAGGCCCTCACTGCACTTGGGAAGCTCCTGTACCTCTT
AGATGGGATGCTGGATGGCAGGTGAACAGTGGTATAGCAGCCACTCCAGCCTCTGCTGCAGCAGCCACC
CTGGATGTGGCTGTTGAGAGAGGCTGTCCACGGAGCCAGAGGCTGCTGTGCGTGGCCCTGGGACAGC
TGGACCGGCTCCAGACCTCGCCATGACGGGAGGAGTCTGTGGCTGAACATCAGGGGCAAGGAGGCGGC
TGCCCTATCCATGTTCCATGTCTCCACGCCACTGCCAGTGTGACCGGTGGTTTCTGAGCTGCATCTTG
GGCTTGGTGTGCCCTGGCCTATGGCTTCCAGCCTGACCTGGTGTGGTGGCGCTGGGGCTGGCCATG
GCCTGCAGGGCCCCACGCTGCACTCCTGGCTGCAATGCTTGGGGGCTGGCAGGGGCGGAGTCTGGC
CCTCCTGGAGGAGAACTCCACACCCAGCTAGCAGGGATCCTGGCCGGGTGCTGAATGGAGAGGCACT
CCTAGCCTAGGCCCTTCTCTGTGGCTCCCGAGAGGACGTCCAGGCCCTGATGTACCTGAGAGGGCAGC
TGGAGCCTCAGTGAAGATGTTGCAGTGCCATCCTCACCTGGTGGCTTGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_032019 unedited

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TTTGGCCGCCCGTTGCAGCATAGGGCGGTAGGCGTGTACGGTGGNGAGTCTATATAAGCA
GAGCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCCGAA
TTCGGCACGAGGCCGAGGCTTCCGCGCCCGCTGGTTCTCGCTCCGGGGCGGAGCTCGCG
ATAGCGACCGGGAGCAGGGCGCGGGGCGGGACCCAGGTCCGAGGCGAGGAAGCCGGAAGC
CAGGGCGGGGAGCCTCCCCCTCGACTGCAGCCTCGCTCCGTGCCTTCTGCGCGCTGG
GATCCCGGAGCCTGCCTAGGTTCTGTGCGCTCCCGCCAGGCCGGTGGCCCGCCCGCC
TGCGCCCCAGGCAGGTCCAGGCCCTCCGGCTGCTCCCGCCGAAGGTGGGGACAGGCAGT
GGCAGGCACCACTAGCGAGGGCGTTTGGGAACCCAGGGTGACCACGGCGCAGCCATGGG
ACCGCGCTTGTGTACCATGAGGACATGACGGCCACCCGGCTGCTCTGGGACGACCCGAG
TGCAGATCGAGCGTCTGAGCGCTGACCGCAGCCCTGGATCGCTGCGGCAGCGCGGC
CTGGAACAGAGGTGTCTGCGGTTGTGAGCCCGGAGGCCCTCGGAAGAGGAGCTGGGCTG
GTGCACAGCCCAGAGTATGTATCCCTGGTCAAGGAGACCAAGTCCATGCAAGGATGAG
CTGCAAGCGCTGTCCGGACAGTTCGACGCCATCTACTTCCACCCGAGTACCTTTCACTGC
GCGCGGCTGGCCGAGGAGCTGGACTGCAGCTGGTGGACGCTGTGCTCACTGGAGCTGTG
CAAATGGGCTTGGCTGGTGAAGGCTCCCGGGACATGGCCAGAGGGCGGCTGCCACG
GGTTCTGTGTGTTACACA
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_032019 unedited ATGGAGATGGCAACTTCCGTGNCCAGGNANAGCACTGGGGNAGGGTCACAGGGCATGCC CCGGNATCTGTTGAGGAAAACAGCTATGACCGCGGCCGCAATCTANAGTCGAGTTTTTT TTTTTTTTTTTTCGTTTGGAGCGATGTTTACTAACGGCGCAAGGGCGGGGAGCGAAGCGCA TCGGGGCGCAGGGGCCGGAACGGGACCGAGCGTGTGTTGCATGGGCCTCGATGGGACGGG CCGGGGCGCGATGGTGGGGCGGGGCGAGGTGAGGTGAGGGGTGGAGCGGGGGAAGCAC GGGTGGGATAGGGCGGGGCGGGGATTGGGAGTGGGCGGGGTTCCGTGCCCCAGAGTCG AGGGAGCCGTGGGCTTGGGGTCCGGATCGCGGCCGCGGGCGCTGGCGTGCGGTGTCAAT TCTGCGGTGTAATGCTCCACCTTGGCCGATTCAAGCCACCAGGTGAGGATGGCACTG CAACATCTTCCACTGAGGCTCCAGCTGCCCTCTCAGGTACATCAGGGCCTGGACGTCTCT TGGGGAGGCCACAGAGGAAGGGCCTAGGCTAGGAGGTGCCTCTCCATTACGACCCGGGC CAGGATCCCTGCTAGCTGGGGTGTGGAGTTCTCCTCCAGGAGGGCCAGGACTCGGCCCCC TGCCAGCCCCGAAGCATTGCANCCAGGATTGCAGCGTGGGGGGCCCTGCAGGCCATGGC CAGGCCCCAGCGCCACCAGCACCAGGTCAAGCTTGGGAACCATAAGCCAGGGGCAGCACC CAGCCCAAGATGCAGCTCAGGAAACCCCGTTATCATTGGCAGTGGGGGTGTAGACTGGG AACATGGTTAGGGGCATCCGCTCTCCTTGCCTGTATGTTACCCACAACTCCTCCCGTT ATGGGCAAGGCTCTGGAGCCGGTCCACCTGTTCCAGGGCCACCAATAAT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_032019
<b>Insert Size:</b>	2700 bp
<b>OTI Disclaimer:</b>	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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <a href="#">More info</a>
<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_032019.4</a> , <a href="#">NP_114408.3</a>
<b>RefSeq Size:</b>	2702 bp

RefSeq ORF:	2010 bp
Locus ID:	83933
UniProt ID:	<a href="#">Q969S8</a>
Cytogenetics:	22q13.33
Domains:	Hist_deacetyl
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>The protein encoded by this gene belongs to the histone deacetylase family, members of which deacetylate lysine residues on the N-terminal part of the core histones. Histone deacetylation modulates chromatin structure, and plays an important role in transcriptional regulation, cell cycle progression, and developmental events. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]</p> <p>Transcript Variant: This variant (1) represents the predominant transcript, and encodes the longer isoform (1, also known as alpha).</p>