

Product datasheet for **SC125507**

HDAC4 (NM_006037) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: HDAC4 (NM_006037) Human Untagged Clone
Tag: Tag Free
Symbol: HDAC4
Synonyms: AHO3; BDMR; HA6116; HD4; HDAC-4; HDAC-A; HDACA
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_006037 edited
 ATGAGCTCCCAAAGCCATCCAGATGGACTTTCTGGCCGAGACCAGCCAGTGGAGCTGCTG
 AATCCTGCCCGCGTGAACCACATGCCAGCAGGTGGATGTGGCCACGGCGCTGCCTCTG
 CAAGTGGCCCCCTCGGCAGTGCCATGGACCTGCGCCTGGACCACCAGTTCTCACTGCCT
 GTGGCAGAGCCGGCCCTGCGGGAGCAGCAGCTGCAGCAGGAGCTCCTGGCGCTCAAGCAG
 AAGCAGCAGATCCAGAGGCAGATCCTCATCGCTGAGTTCCAGAGGCAGCAGCAGCAGCTC
 TCCCGGCAGCAGAGGGCAGCTCCACGAGCACATCAAGCAACAACAGGAGATGTGGCC
 ATGAAGCACCAGCAGGAGCTGCTGGAACACCAGCGGAAGCTGGAGAGGCACCGCCAGGAG
 CAGGAGCTGGAGAAGCAGCACCAGGAGCAGAAGCTGCAGCAGCTCAAGAACAAGGAGAAG
 GGCAAAGAGAGTCCCGTGGCCAGCACAGAAGTGAAGATGAAGTTACAAGAATTTGTCTC
 AATAAAAAGAAGGCGCTGGCCACCGGAATCTGAACCACTGCATTCCAGCGACCCTCGC
 TACTGGTACGGGAAAACGCAGCAGATTCCTTGACCAGAGTTCTCCACCCAGAGCGGA
 GTGTGCACCTCCTATAACCACCCGGTCTGGGAATGTACGACGCCAAAGATGACTTCCCT
 CTTAGGAAAACAGCTTCTGAACCGAATCTGAAATTACGGTCCAGGCTAAAGCAGAAAAGT
 GCCGAAAGACGGAGCAGCCCCCTGTACGAGGAAAGACGGGCCAGTGGTCACTGCTCTA
 AAAAAGCGTCCGTTGGATGTACAGACTCCGCGTGCAGCAGCGCCCAAGGCTCCGGACCC
 AGCTCACCAACAACAGCTCCGGGAGCGTCAGCGCGGAGAACGGTATCGCGCCCGCGTC
 CCCAGCATCCCGCGGAGACGAGTTTGGCGCACAGACTTGTGGCAGGAGAAGGCTCGGCC
 GCTCCACTTCCCCTCTACACATCGCCATCCTTGCCCAACATCACGCTGGGCTGCCTGCC
 ACCGCCCTCTGCGGGACGGCGGGCCAGCAGGACGCCGAGAGACTCACCTTCCCGCC
 CTCCAGCAGAGGCTCTCCCTTTCCCGGCACCCACCTCACTCCCTACCTGAGCACCTCG
 CCCTTGGAGCGGGACGGAGGGGACGCGCACAGCCCTTCTGCGAGCATGGTCTTACTG
 GAGCAGCCCGGCACAAGCACCCCTCGTCACAGGCTGGGAGCACTGCCCTCCAGCA
 CAGTCTTGGTTGGTGCAGACCGGGTGTCCCCCTCCATCCACAAGCTGCGGCAGCACCGC
 CCACTGGGGCGGACCCAGTCCGGCCCGCTGCCCAAGACGCCAGGCTCTGCAGCACCTG
 GTCATCCAGCAGCAGCATCAGCAGTTTCTGGAGAAACACAAGCAGCAGTCCAGCAGCAG
 CAACTGCAGATGAACAAGATCATCCCCAAGCCAAGCGAGCCAGCCCGGCAGCCGGAGAGC



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CACCCGGAGGAGACGGAGGAGGAGCTCCGTGAGCACCAGGCTCTGCTGGACGAGCCCTAC
 CTGGACCGGCTGCCGGGGCAGAAGGAGGCGCACGCACAGGCCGGCGTGCAGGTGAAGCAG
 GAGCCCATTGAGAGCGATGAGGAAGAGGCGAGAGCCCCACGGGAGGTGGAGCCGGGCCAG
 CGCCAGCCAGTGAAGGAGGAGCTGCTCTCAGACAGCAAGCCCTCCTGCTGGAGCAGCAG
 CGGATCCACCAGTGAAGAACTACCAGGCGTCCATGGAGGCCCGCCGATCCCCGTGTCC
 TTCGGCGGCCACAGGCCCTGTCCCGGGCGCAGTCTCACCCGCTGCTGCCACCTCCCC
 GTGTCTGTGACGAGCCCCACCAAGCCGAGGTTACGACAGGCCCTCGTGTATGACACG
 CTGATGCTGAAGCACCAGTGCACCTGCGGGAGTAGCAGCAGCCACCCGAGCAGCCGGG
 AGGATCCAGAGCATCTGTCGCCCTGCAGGAGACGGCCCTCCGGGGCAAATGCGAGTGC
 ATCCGCGGACGCAAGGCCACCCTGGAGGAGCTACAGACGGTGCCTCGGAAGCCACACC
 CTCCTGTATGGCACGAACCCCTCAACCGGCAGAACTGGACAGTAAGAACTTCTAGGC
 TCGCTCGCTCCGTGTTCTGTCGGCTCCCTTTCGGTGGTGTGGGGTGGACAGTGCACAC
 ATATGGAACGAGGTGCACTCGGCGGGGCGAGCCCGCTGGCTGTGGGCTGCGTGGTAGAG
 CTGGTCTTCAAGGTGGCCACAGGGGAGCTGAAGAATGGCTTTGCTGTGGTCCGCCCCCT
 GGACACCATGCGGAGGAGCAGCCCATGGGCTTTTGTACTTCAACTCCGTGGCCGTG
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 GTGCACCATGGAACGGGACCCAGCAGGCTTTCTACAGCGACCCAGCGTCTGTACATG
 TCCTCCACCGCTACGACGATGGGAACTTCTTCCAGGCAGCGGGGCTCCTGATGAGGTG
 GGCACAGGGCCCGCGTGGGTTTCAACGTCAACATGGCTTTCACCGCGCGCTGGACCC
 CCCATGGGAGACGCTGAGTACTTGGCGGCTTCAAGACGGTGGTGCATGCCGATCGCCAGC
 GAGTTTGGCCCGATGTGGTGTGGTGCATCAGGCTTCGATGCCGTGGAGGGCCACCC
 ACCCTCTTGGGGGTACAACCTCTCCGCCAGATGCTTCGGGTACCTGACGAAGCAGCTG
 ATGGCCTGGCTGGCGGCGGATTTGCTTGGCCCTCGAGGGAGGCCACGACCTGACCGCC
 ATTTGCGACGCCTCGGAAGCATGTGTTTCTGCCTTGTGGGAAACGAGCTTGATCCTCTC
 CCAGAAAAGTTTTACAGCAAAGACCCAATGCAAACGCTGTCCGTTCCATGGAGAAAAGT
 ATGGAGATCCACAGCAAGTACTGGCGTGCCTGCAGCGCACAACCTCCACAGCGGGGCGT
 TCTCTGATCGAGGCTCAGACTTGCAGAAACGAAGAAGCCGAGACGGTACCAGCCATGGCC
 TCGCTGTCCGTGGGCGTGAAGCCCGCCAAAAGAGACCAGATGAGGAGCCCATGGAAGAG
 GAGCCGCCCTGTAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006037 unedited
 CGTCAATATTTGTATACGACTACTATAGCGGCCGCGATTTCGGCAGGAGACCTTGCCG
 GCGAGGCTCGGCGCTTGAACGTCTGTGACCCAGCCCTCACCGTCCCGTACTTGTATGTG
 TTGGTGGGAGTTTGGAGCTCGTTGGAGCTATCGTTTCCGTGGAAATTTTGGCCATTTTCG
 AATCACTTAAAGGAGTGGACATTGCTAGCAATGAGCTCCCAAAGCCATCCAGATGGACTT
 TCTGGCCGAGACCAGCCAGTGGAGCTGCTGAATCCTGCCCGCTGAACCACATGCCAGC
 ACGGTGGATGTGGCCACGGCGTGCCTCTGCAAGTGGCCCTCGGCAGTGGCCATGGAC
 CTGCGCCTGGACCACCAGTTCTACTGCCTGTGGCAGAGCCGGCCCTGCGGGAGCAGCAG
 CTGCAGCAGGAGCTCCTGGCGCTCAAGCAGAAGCAGCAGATCCAGAGGCAGATCCTCATC
 GCTGAGTTCCAGAGGCAGCAGCAGCTCTCCGGCAGCAGAGGCGCAGCTCCACGAG
 CACATCAAGCAACAACAGGAGATGCTGGCCATGAAGCACCAGCAGGAGCTGCTGGAAACA
 CCAGCGAAGCTGGAGAGGCACCGCCAGGAGCAGGAGCTGGAGAAGCAGCACCAGGAGCAG
 AAGCTGCAGCAGCTCAAGAACAGGAGAAGGGCAAGAGAGTGGCGTGGCCGACAGAAGTG
 AAGATGAAGTACAAGAATTTGTCCCTCATAAAAAGAAGCGCTGGCCACCGAATCTGAAC
 ACTGCATTTACAGCACCTCGCTACTGGTACGGGAAAACGCAGCAGATCCCTTGACCA
 GAGTTCTCCACCCAGAGCGAGTGCACCTCTTAACCACCCCGTCTGGGAATGTACG
 ACGCCCAAGATGACTCCCTCTTTAGAAAAC

Restriction Sites:

Please inquire

ACCN:

NM_006037

Insert Size:

4700 bp

OTI Disclaimer:	<p>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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	no
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:	NM_006037.2 , NP_006028.1
RefSeq Size:	8459 bp
RefSeq ORF:	3255 bp
Locus ID:	9759
UniProt ID:	P56524
Cytogenetics:	2q37.3
Domains:	Hist_deacetyl
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 belongs to class II of the histone deacetylase/acuc/apha family. It possesses histone deacetylase activity and represses transcription when tethered to a promoter. This protein does not bind DNA directly, but through transcription factors MEF2C and MEF2D. It seems to interact in a multiprotein complex with RbAp48 and HDAC3. [provided by RefSeq, Jul 2008]