

Product datasheet for SC112645

HDAC7 (NM_015401) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: HDAC7 (NM_015401) Human Untagged Clone
Tag: Tag Free
Symbol: HDAC7
Synonyms: HD7; HD7A; HDAC7A
Mammalian Cell Selection: None
Vector: pCMV6-XL6
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_015401 edited
GGGATGTGAGGCCGGCGCCCCAGCCCCCGCCCCGCCATGAGCCCCCGCTCTGAGGGCC
CCGGCCCCCTGGATGCACAGCCCCGGCGCTGATGGGACCCAGGTGAGCCCCGGGTGCCCACT
ACTGCAGCCCCACTGGCGCAGGCTGCCCCAGGCCCTGTGCAGACACACCAGGCCCTCAGC
CGCAGCCCATGGACCTGCGGGTGGGCCAGCGGCCCCAGTGAGCCCCACCAGAGCCCA
CATTGCTGGCCCTGCAGCGTCCCAGCGCTGCACCACCCTCTTCTAGCAGGCTGC
AGCAGCAGCGCTCGGTGGAGCCATGAGGCTCTCCATGGACACGCCGATGCCCGAGTTGC
AGGTGGGACCCAGGAACAAGAGCTGCGGCAGCTTCTCCACAAGGACAAGAGCAAGCGAA
GTGCTGTAGCCAGCAGCGTGGTCAAGCAGAAGCTAGCGGAGGTGATTCTGAAAAACAGC
AGGCGGCCCTAGAAAGAACAGTCCATCCCAACAGCCCCGGCATTCCCTACAGAACCCTGG
AGCCCCCTGGAGACGGAAGGAGCCACCCGCTCCATGCTCAGCAGCTTTTTGCCTCCTGTT
CCAGCCTGCCAGTGACCCCCAGAGCACTTCCCTCTGCGAAGACAGTCTCTGAGCCCA
ACCTGAAGCTGCGCTATAAGCCCAAGAAGTCCCTGGAGCGGAGGAAGAATCCACTGCTCC
GAAAGGAGAGTGCGCCCCCAGCCTCCGGCGGGCGCCCGCAGAGACCCTCGGAGACTCCT
CCCCAAGTAGTAGCAGCAGCCCGCATCAGGGTGCAGCTCCCCAATGACAGCGAGCAGC
GCCCAATCCCATCCTGGGCTCGGAGGCCTCTTGGGCCAGCGGCTGCGGCTGCAGGAGA
CTTCTGTGGCCCCGTTGCGCTTGCCGACAGTGTCTTGTGCCCGCAATCACTCTGGGGC
TGCCCCCCCCCTGCCAGGGCTGACAGTGACCGCAGGACCCATCCGACTCTGGGCCCTCGG
GGCCAATCCTGGGGAGCCCCACACTCCCCTCTTCTGCCCATGGCTTGGAGCCCGAGG
CTGGGGGCACCTTGCCCTCTCGCCTGCAGCCATTCTCCTCTGGACCCCTCAGGCTCTC
ATGCCCGCTGCTGACTGTGCCCGGCTTGGGCCCTTGCCTTCCACTTTGCCAGTCTCT
TAATGACCACCGAGCGGCTCTCTGGGTGAGGCTCCACTGGCCACTGAGCCGGACTCGCT
CAGAGCCCTGCCCCCCAGTGCCACCGCTCCCCACCGCGGGCCCATGCAGCCCCGCC
TGGAGCAGCTCAAACTCACGTCCAGGTGATCAAGAGGTGAGCCAAGCCGAGTGAGAAGC
CCCGGCTGCGGCAGATACCCTCGGCTGAAGACCTGGAGACAGATGGCGGGGACCCGGCC
AGGTGGTGGACGATGGCCTGGAGCACAGGGAGCTGGGCCATGGGCAGCCTGAGGCCAGAG
GCCCGCTCCTCTCCAGCAGCACCTCAGGTGTTGCTCTGGGAACAGCAGCGACTGGCTG



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GGCGGCTCCCCGGGCGAGCACCGGGGACACTGTGCTGCTTCTCTGGCCCAGGGTGGGC
 ACCGGCCTCTGTCCCGGCTCAGTCTTCCCAGCCGACCTGCCTCACTGTGAGCCAG
 AGCCTGCCAGCCAGGCCCGAGTCTCTCCAGCTCAGAGACCCCTGCCAGGACCCTGCCCT
 TCACCACAGGGTGTATCTATGACTCGGTGATGCTGAAGCACCAGTGTCTCTGCGGTGACA
 ACAGCAGGCACCCGGAGCACGCCGGCCGATCCAGAGCATCTGGTCCCGGCTGCAGGAGC
 GGGGCTCCGGAGCCAGTGTGAGTGTCTCCGAGGCCGGAAGGCCCTCCCTGGAAGAGCTGC
 AGTCGGTCCACTCTGAGCGGCACGTGCTCTCTACGGCACCAACCCGCTCAGCCGCTCA
 AACTGGACAACGGGAAGCTGGCAGGGCTCTGGCACAGCGGATGTTTGTGATGCTGCCCT
 GTGGTGGGGTTGGGGTGGACACTGACACCATCTGGAATGAGCTTCAATCCTCCAATGACG
 CCCGCTGGGCCGCTGGCAGTGTCACTGACCTCGCCTTCAAAGTGGCTTCTCGTGAGCTAA
 AGAATGGTTTCGCTGTGGTGGGCCCCAGGACACCATGCAGATCATTCAACAGCCATGG
 GCTTCTGCTTCTCAACTCAGTGGCCATCGCTGCCGCGAGCTGCAACAGCAGAGCAAGG
 CCAGCAAGATCCTCATTGTAGACTGGGACGTGCACCATGGCAACGGCACCCAGCAAACCT
 TCTACCAAGACCCAGTGTGCTCTACATCTCCCTGCATCGCCATGACGACGGCAACTTCT
 TCCCGGGAGTGGGGCTGTGGATGAGGTAGGGGCTGGCAGCGGTGAGGGCTTCAATGTCA
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 TCAGGATAGTCGTGATGCCCATCGCCGAGAGTCTCTCCAGACCTAGTCTGGTGTCTG
 CTGGATTTGATGCTGCTGAGGGTCAACCGGCCACTGGGTGGCTACCATGTTTCTGCCA
 AATGTTTTGGATACATGACGCAGCAACTGATGAACCTGGCAGGAGGCGCAGTGGTGTGG
 CCTTGGAGGGTGGCCATGACCTCACAGCCATCTGTGACGCTCTGAGGCCGTGTGTGGCTG
 CTCTTCTGGGTAACAGGGTGGATCCCTTTTCAAGAAGGCTGGAACAGAAACCAACC
 TCAATGCCATCCGCTCTCTGGAGCCGTGATCCGGGTGCACAGTAAACTGAGGGCTGCA
 TGCAGCGCTGGCCTCTGTCCAGACTCTGGGTGCTAGAGTGCCAGGGGCTGACAAG
 AAGAAAGTGGAGGAGTGACCGCACTGGCGTCCCTCTCTGTGGGCATCCTGGCTGAAGATA
 GGCCCTCGGAGCAGTGGTGGAGGAGGAAGAACCTATGAATCTCTAAGGCTCTGGAACCA
 TCTGCCCGCCACCATGCCCTTGGGACCTGGTTCTTTCTAACCCTGGCAATAGCCCC
 ATTCTGGGTCTTTAGAGATCCTGTGGCAAGTAGTTGGAACCAGAGAACAGCCTGCCTG
 CTTTGACAGTTATCCCAGGGAGCGTGAGAAAATCCCTGGGTCTAGAATGGGAACTGGAGA
 GGACCCTGAGAGGAGACGGGCTGGGCGGCGACCCACAGGGCTCTCGAGAACAGATTCT
 CCCCTCCAGTATGGGCCCTGGCTGTGGCCCCATTCTCAGGACTGCACAGAGGAGGACT
 GGCTCCGGCTCCGTGGGCTCACCTTAAACCACTATTCTGGCTCTGCAAACCCAGACT
 TTGCACACAGCCTCAGGCTCCACACAGAAATGTGAACCTGGCCTCAGACAGGCTGGCCCT
 TCCTAGGCTCTAGGGGCTAGGGGGAGTGGGGAGCCAAGAGGTCCCATATTCTGAGTGC
 AGGGGTAGTCCCTCTCACCTGCTTCTCAGACGACTCTGGAAGCTTCCCTCTACCACCGG
 GCACTGAGACGAAGCTCCCTGACAGCCGAGACTGGCAGCCCTCCATCTGGTCCGTACCCT
 CGCCAGAGGCCCCCTACATCAACCTCTGGCGATGCCCTGGTGGAGCAGATGGGTGCTC
 TGGGAGTCTGTGCTTCTGATCCAATGGTGCCAAACCTTCTCTCCCCAGAAGCGCA
 GCATACCCCTGGGACCCCTCGGCCACTGCCACTCGGGGAGCCTTCTCTGTTTCTGGGGC
 CTCGCCACCATAGCTCTGATTCCACCCACATAGGAATAGCCTGACTGAGGGGGAAGG
 GGTGGGAGAGAAGATACAGACATGGAGGAGGGGAGGCTGCTCTGGCAAAGTCTTCAAGGC
 TTTTGGGGTCCAGGCCTGGGGTCAAGAAGGAAAATGTGTGTGAGCATGTGTGTGAGTGA
 GGCGTGTGTGTGAGCGTGTGTGTGAGTGGCGTGTGTGTGTCTTTCTAGGACCCAC
 CATACCTGTGTATGTATGCATGTTTTTGTAAAAAGGAAGAAAATGGAAAAAATCTGAA
 CAATAATGTTTTATTGCTTCAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_015401
Insert Size: 4200 bp

OTI Disclaimer: 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.

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: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_015401.1.

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_015401.1](#), [NP_056216.1](#)

RefSeq Size: 4206 bp

RefSeq ORF: 2859 bp

Locus ID: 51564

UniProt ID: [Q8WU14](#)

Cytogenetics: 12q13.11

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 has sequence homology to members of the histone deacetylase family. This gene is orthologous to mouse HDAC7 gene whose protein promotes repression mediated via the transcriptional corepressor SMRT. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1, also known as variant 3) encodes isoform a (also known as isoform c).