

Product datasheet for **SC318433**

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
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_015401, the custom clone sequence may differ by one or more nucleotides

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ATGCACAGCCCCGGCGCTGATGGGACCCAGGTGAGCCCGGTGCCCACTACTGCAGCCCC
ACTGGCGCAGGCTGCCCCAGGCCCTGTGCAGACACACCAGGCCCTCAGCCGCAGCCCATG
GACCTGCGGGTGGGCCAGCGGCCCCAGTGGAGCCCCACCAGAGCCACATTGTGGCC
CTGCAGCGTCCCCAGCGCTGCACCACCACCTTCTCTAGCAGGCTGCAGCAGCAGCGC
TCGGTGGAGCCCATGAGGCTCTCCATGGACACGCCGATGCCCGAGTTGCAGGTGGGACCC
CAGGAACAAGAGCTGCGGCAGCTTCTCCACAAGGACAAGAGCAAGCGAAGTGCTGTAGCC
AGCAGCGTGGTCAAGCAGAAGCTAGCGGAGGTGATTCTGAAAAACAGCAGGCGGCCCTA
GAAAGAACAGTCCATCCCAACAGCCCCGGCATTCCCTACAGAACCCTGGAGCCCCCTGGAG
ACGGAAGGAGCCACCCGCTCCATGCTCAGCAGCTTTTTGCCTCCTGTTCCAGCCTGCC
AGTGACCCCCCAGAGCACTTCCCTCTGCGCAAGACAGTCTCTGAGCCCAACCTGAAGCTG
CGCTATAAGCCCCAAGAAGTCCCTGGAGCGGAGGAAGAATCCACTGCTCCGAAAGGAGAGT
GCGCCCCCAGCCTCCGGCGGGCGGCCCGAGAGACCCCTCGGAGACTCCTCCCCAAGTAGT
AGCAGCACGCCCGCATCAGGGTGCAGCTCCCCAATGACAGCGAGCACGGCCCCAATCCC
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CGGTTGCTTGGCCGACAGTGTCTTGGTCCCGCAATCACTCTGGGGCTGCCCGCCCT
GCCAGGGCTGACAGTGACCGCAGGACCCATCCGACTCTGGGCCCTCGGGGCAATCCTG
GGGAGCCCCCAGCCTCCCTCTTCTGCCCCATGGCTTGAGCCCGAGGCTGGGGCACC
TTGCCCTCTCGCCTGCAGCCATTCTCCTCCTGGACCCCTCAGGCTCTCATGCCCGCTG
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GAGCGGCTCTCTGGTCAAGGCTCCACTGGCCACTGAGCCGACTCGCTCAGAGCCCTG
CCCCCAGTGCCACCGCTCCCCACCGCGGGCCCATGCAGCCCCGCTGGAGCAGCTC
AAAACACAGTCCAGGTGATCAAGAGGTGACCAAGCCGAGTGAGAAGCCCCGGTGGCG
CAGATACCCTCGGCTGAAGACCTGGAGACAGATGGCGGGGACCGGGCCAGGTGGTGGAC
GATGGCCTGGAGCACAGGAGCTGGGCCATGGGAGCCTGAGGCCAGAGGCCCGCTCCT
CTCCAGCAGCACCCCTCAGGTGTTGCTCTGGGAACAGCAGCGACTGGCTGGCGGGTCCCC
CGGGGACAGCACCAGGACTGTGCTGCTTCTCTGGCCAGGGTGGGACCGGCCCTCTG
TCCCGGGCTCAGTCTTCCCAGCCGACCTGCCTCACTGTGAGCCCCAGAGCCTGCCAGC
CAGGCCGAGTCTCTCCAGCTCAGAGACCCCTGCCAGGACCCTGCCCTTACCACAGGG
CTGATCTATGACTCGGTCATGCTGAAGCACCAGTGCTCCTGCGGTGACAACAGCAGGCAC
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CCGGAGCACGCCGGCCGCATCCAGAGCATCTGGTCCC GGCTGCAGGAGCGGGGGCTCCGG
AGCCAGTGTGAGTGTCTCCGAGGCCGGAAGGCCTCCCTGGAAGAGCTGCAGTCCGGTCCAC
TCTGAGCGGCACGTGCTCCTCTACGGCACCAACCCGCTCAGCCGCTCAAACCTGGACAAC
GGGAAGCTGGCAGGGCTCCTGGCACAGCGGATGTTTGTGATGCTGCCCTGTGGTGGGGTT
GGGGTGGACACTGACACCATCTGGAATGAGCTTCATTCTCCAATGCAGCCCGCTGGGCC
GCTGGCAGTGTCACTGACCTCGCCTTCAAAGTGGCTTCTCGTGAGCTAAAGAATGGTTTC
GCTGTGGTGGGCCCCAGGACACCATGCAGATCATTCAACAGCAGCAAGGCCAGCAAGATC
TTCAACTCAGTGGCCATCGCCTGCCGGCAGCTGCAACAGCAGAGCAAGGCCAGCAAGATC
CTCATTGTAGACTGGGACGTGCACCATGGCAACGGCACCCAGCAAACCTTCTACCAAGAC
CCCAGTGTGCTCTACATCTCCCTGCATCGCCATGACGACGGCAACTTCTCCCGGGGAGT
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GCTGGAGGTCTGGACCCCCCATGGGGATCCTGAGTACCTGGCTGCTTTCAGGATAGTC
GTGATGCCATCGCCGAGAGTTCTCTCCAGACCTAGTCTGGTGTCTGCTGGATTTGAT
GCTGCTGAGGGTACCCGGCCCCACTGGGTGGCTACCATGTTTCTGCCAAATGTTTTGGA
TACATGACGCAGCAACTGATGAACCTGGCAGGAGCGCAGTGGTGTGGCTTGGAGGGT
GGCCATGACCTCACAGCCATCTGTGACGCCTCTGAGGCCTGTGTGGCTGCTTCTGGGT
AACAGGTGGATCCCCTTTCAGAAGAAGGCTGGAACAGAAACCAACCTCAATGCCATC
CGCTCTCTGGAGGCCGTGATCCGGGTGCACAGTAAATACTGGGGCTGCATGCAGCGCCTG
GCCTCCTGTCCAGACTCTGGGTGCCTAGAGTGCCAGGGGCTGACAAAGAAGAAGTGGAG
GCAGTGACCGCACTGGCGTCCCTCTCTGTGGGCATCCTGGCTGAAGATAGGCCCTCGGAG
CAGCTGGTGGAGGAGGAAGAACCTATGAATCTC
    
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Restriction Sites:

Please inquire

ACCN:

NM_015401

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:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_015401.3, NP_056216.2</u>
RefSeq Size:	4301 bp
RefSeq ORF:	2976 bp
Locus ID:	51564
UniProt ID:	<u>Q8WUI4</u>
Cytogenetics:	12q13.11
Domains:	Hist_deacetyl
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<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 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]</p> <p>Transcript Variant: This variant (1, also known as variant 3) encodes isoform a (also known as isoform c).</p>