

Product datasheet for **RC215297**

HDAC7 (NM_001098416) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC7 (NM_001098416) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HDAC7
Synonyms:	HD7; HD7A; HDAC7A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC215297 representing NM_001098416
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCACAGCCCCGGCGCTGATGGGACCCAGGTGAGCCCCGGGTGCCCACTACTGCAGCCCCACTGGCGCAG
 GCTGCCCCAGGCCTGTGCAGACACACCAGGCCCTCAGCCGACGCCATGGACCTGCGGGTGGGCCAGCG
 GCCCCAGTGGAGCCCCACCAGAGCCACATTGCTGGCCCTGCAGCGTCCCCAGCGCTGCACCCAC
 CTCTTCTAGCAGGCTGCAGCAGCAGCGCTCGGTGGAGCCATGAGGCTCTCCATGGACACGCCGATGC
 CCGAGTTGCAGGTGGGACCCAGGAACAAGAGCTGCGGCAGTTCTCCACAAGGACAAGAGCAAGCGAAG
 TGCTGTAGCCAGCAGCGTGGTCAAGCAGAAGCTAGCGGAGGTGATTCTGAAAAACAGCAGGCGGCCCTA
 GAAAGAACAGTCCATCCCAACAGCCCCGGCATTCCCTACAGAACCCTGGAGCCCCGGAGACGGAAGGAG
 CCACCCGCTCCATGCTCAGCAGCTTTTTCCTCTGTTCCAGCCTGCCAGTGACCCCCAGAGCACTT
 CCCTCTGCGCAAGACAGTCTCTGAGCCCAACTGAAGCTGCGCTATAAGCCCAAGAAGTCCCTGGAGCGG
 AGGAAGAATCCACTGCTCCGAAAGGAGAGTGCGCCCCCAGCCTCCGGCGCGGCCCGCAGAGACCCCTCG
 GAGACTCTCCCCAAGTAGTAGCAGCACGCCCGCATCAGGGTGCAGCTCCCCAATGACAGCGAGCACGG
 CCCAATCCCATCCTGGGCTCGGAGGCTGACAGTGACCGCAGGACCCATCCGACTCTGGGCCCTCGGGGG
 CCAATCCTGGGGAGCCCCACACTCCCCCTTCTGCCCCATGGCTTGGAGCCGAGGCTGGGGGCACCT
 TGCCCTCTCGCCTGCAGCCATTCTCTCTGGACCCCTCAGGCTCTCATGCCCGCTGCTGACTGTGCC
 CGGGCTTGGGCCCTTGCCTTCCACTTTGCCAGTCTTAATGACCACCGAGCGGCTCTCTGGGTACGGC
 CTCACACTGGCCACTGAGCCGACTCGCTCAGAGCCCCGCCAGTCCACCGCTCCCCACCGCCG
 GCCCATGCAGCCCCGCTGGAGCAGTCAAAACTCACGTCCAGTGATCAAGAGGTGAGCAAGCCGAG
 TGAGAAGCCCCGGCTGCGGCAGATACCCTCGGCTGAAGACCTGGAGACAGATGGCGGGGACCGGGCCAG
 GTGGTGGACGATGGCCTGGAGCACAGGGAGCTGGGCCATGGGACGCTGAGGCCAGAGGCCCGCTCCTC
 TCCAGCAGCACCCCTCAGGTGTTGCTCTGGGAACAGCAGCGACTGGCTGGGCGGCTCCCCGGGGCAGCAC
 CGGGGACACTGTGCTGCTTCTCTGGCCAGGGTGGGACCGGCTCTGTCCCGGCTCAGTCTTCCCCA
 GCCGCACCTGCCTCACTGTGAGCCCCAGAGCCTGCCAGCCAGGCCGAGTCTCTCCAGCTCAGAGACCC
 CTGCCAGGACCCCTGCCCTTACCACAGGGCTGATCTATGACTCGGTGATGCTGAAGCACCAGTGTCTCTG
 CGGTGACAACAGCAGGCACCCGGAGCACCGGCCGATCCAGAGCATCTGGTCCCGGCTGCAGGAGCGG
 GGGCTCCGGAGCCAGTGTGAGTGTCTCCGAGGCCGGAAGGCTCCCTGGAAGAGTGCAGTCCGTTCACT
 CTGAGCGGCACGTGCTCCTCTACGGCACCAACCGCTCAGCCGCCTCAAAGTGGACAACGGGAAGTGGC
 AGGGCTCCTGGCACAGCGGATGTTTGTGATGCTGCCCTGTGGTGGGGTGGGGTGGACACTGACACCATC
 TGGAAATGAGTTCATTCTCCAATGCAGCCCGTGGGCCGCTGGCAGTGTCACTGACCTCGCCTCAAAG
 TGGCTTCTCGTAGCTAAAGATGGTTTCGCTGTGGTGGGCCCCAGGACACCATGCAGATCATTCAAC
 AGCCATGGGCTTCTGCTTCTCAACTCAGTGGCCATCGCTGCCGGCAGTGCACACAGCAGAGCAAGGCC
 AGCAAGATCCTCATTGTAGACTGGGACGTGCACCATGGCAACGGCACCCAGCAAACCTTCTACCAAGACC
 CCAGTGTGCTCTACATCTCCCTGCATCGCATACGACGGCAACTTCTCCCGGGAGTGGGGCTGTGGA
 TGAGGTAGGGGCTGGCAGCGGTGAGGGCTTCAATGTCAATGTGGCCTGGGCTGGAGGTCTGGACCCCC
 ATGGGGGATCCTGAGTACCTGGCTGCTTTCAGGATAGTCGTGATGCCCATCGCCGAGAGTCTCTCCAG
 ACCTAGTCTGGTGTCTGCTGGATTTGATGCTGCTGAGGGTACCCGGCCCCACTGGGTGGCTACCATGT
 TTCTGCCAAATGTTTGGATACATGACGCAGCAACTGATGAACCTGGCAGGAGGCGCAGTGGTGTGGCC
 TTGGAGGGTGGCCATGACCTCACAGCCATCTGTGACGCCCTGAGGCCTGTGTGGCTGCTTCTGGGTA
 ACAGGGTGGATCCCCTTTCAGAAGAAGGCTGGAACAGAAACCAACCTCAATGCCATCCGCTCTCTGGA
 GGCCGTGATCCGGGTGCACAGTAAATACTGGGGTGCATGCAGCGCCTGGCCTCTGTCCAGACTCTGG
 GTGCTAGAGTGCAGGGGCTGACAAAGAAGAAGTGGAGGCAGTGACCGACTGGCGTCCCTCTGTGG
 GCATCCTGGCTGAAGATAGGCCCTCGGAGCAGCTGGTGGAGGAGAAGAACCTATGAATCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC215297 representing NM_001098416
 Red=Cloning site Green=Tags(s)

MHSPGADGTQVSPGAHYCSPTGAGCPRPCADTPGPQPQPMDLRVGQRPPVEPPPEPTLLALQRPQLHHH
 LFLAGLQQRSVEPMRLSMDTPMPELVGPQEQELRQLLHKDKSKRSVAVSSVVKQLAEVILKKQQAAL
 ERTVHPNSPGIPYRTLEPLETEGATRSMSSFLPPVPSLPSDPPEHFPLRKTVSEPNLKLRYKPKKSLER
 RKNPLLRKESAPPSLRRRRPAETLGDSSPSSSSTPASGCSSPNDSEHGPNPILGSEADSDRRTHPTLGP
 PILGSPHTPLFLPHGLEPEAGGTLPSRLQPILLDDPSGSHAPLLTVPGLGPLPFHF AQSLMTTERLSGSG
 LHWPLSRTRSEPLPPSATAPPPGPMQPRLEQLKTHVQVIKRSAPSEKPRLRQIPSAEDLETGGGPGQ
 VVDDGLEHRELGHGQPEARGPAPLQQHPQVLLWEQQRLAGRLPRGSTGDTVLLPLAQGGHRPLSRAQSSP
 AAPASLSAPEPASQARVLSSETPARTLPFTTGLIYDSVMLKHQCSCGDNRSRHEHAGRIQSIWSRLQER
 GLRSQCECLGRKASLEELQSVHSEHVLLYGTNPLSRLKLDNGKLAGLLAQRMFVMLPCGGVGVDTDTI
 WNELHSSNAARWAAGSVTDLAFKVASRELKNGFAVVRPPGHHADHSTAMGFCFFNSVAIACRQLQQSKA
 SKILIVDWDVHHNGTQQTFYQDPSVLYISLHRHDDGNFFPGSGAVDEVGAGSGEGFNVNAWAGGLDPP
 MGDPEYLAAFRIVVMPIAREFSPDLVLSAGFDDAEGHPAPLGGYHVSACFCGYMTQQLMNLAGGAVVLA
 LEGGHDLTAICDASEACVAALLGNRVDPLSEEGWKQKPNLNAIRSLEAVIRVHSKYWGCMQRLASCPDSW
 VPRVPGADKEEVEAVTALASLSVGILAE DRPSEQLVEEEEEPMNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



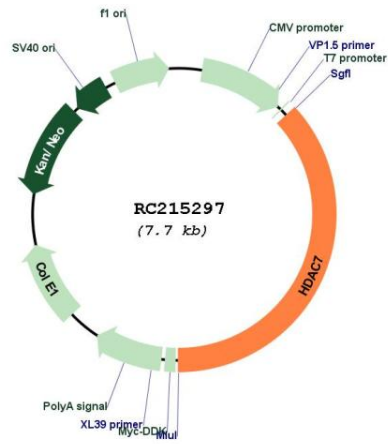
* The last codon before the Stop codon of the ORF

ACCN: NM_001098416

ORF Size: 2862 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:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001098416.4
RefSeq Size:	4190 bp
RefSeq ORF:	2865 bp
Locus ID:	51564
UniProt ID:	Q8WUI4
Cytogenetics:	12q13.11
Protein Families:	Druggable Genome, Transcription Factors
MW:	102.9 kDa
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>

Product images:



Circular map for RC215297