

Product datasheet for RC208656

HDAC5 (NM_001015053) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC5 (NM_001015053) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HDAC5
Synonyms:	HD5; NY-CO-9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208656 representing NM_001015053 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACTCTCCCAACGAGTCGGCAGATGGGATGTCAGGTCGGGAACCATCCTTGAAATCCTGCCGCGGA
CTTCTCTGCACAGCATCCCTGTGACAGTGGAGGTGAAGCCGGTGTGCCAAGAGCCATGCCAGTTCAT
GGGGGTGGGGTGGAGGCAGCCAGCCCTGTGGAGCTACGGGGGCTCTGGTGGCTCTGTGGACCC
ACACTGCGGGAGCAGCAACTGCAGCAGGAGCTCCTGGCGCTCAAGCAGCAGCAGCAGCTGCAGAAGCAGC
TCCTGTTGCTGAGTTCAGAAACAGCATGACCACCTGACAAGGCAGCATGAGGTCCAGTGCAGAAGCA
CCTCAAGCAGCAGCAGGAGATGCTGGCAGCCAAGCAGCAGCAGGAGATGCTGGCAGCCAAGCGGCAGCAG
GAGCTGGAGCAGCAGCGGCAGCGGGAGCAGCAGCGGCAGGAAGAGCTGGAGAAGCAGCGGCTGGAGCAGC
AGCTGCTCATCCTGCGGAACAAGGAGAAGGAAAGAGAGTGCATTGCCAGCACTGAGGTAAGAGTGGAG
GCTCCAGGAATCCTCTTGTGCAAGTCAAAGGAGCCACACCAGGCGCCTCAACCATCCCTCCCACAG
CACCCAAATGCTGGGGAGCCACCATGCTTCTTTGGACCAGAGTTCCCTCCCAGAGCGGCCCCCTG
GGAGCCTCCCTCTACAACTGCCTTTGCCTGGGCCCTACGACAGTCGAGACGACTTCCCTCCGCAA
AACAGCCTCTGAACCAACTTGAAGTGCCTTCAAGGCTAAAACAGAAGGTGGCTGAGCGGAGAAGCAGT
CCCCTCCTGCGTCGAAGGATGGGACTGTTATTAGCACCTTTAAGAAGAGAGCTGTTGAGATCACAGGTG
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CCCTGCTGCAGCATGTGCTGTTGCTGGAGCAGGCCGGCAGCAGACACCCTCATTGCTGTGCCACTCCA
CGGCAGTCCCCACTAGTGACGGTGAACGTGTGCCACCAGCATGCGGACGGTAGGCAAGTCCCAGG



CATCGGCCCTGAGCCGCACTCAGTCCTCACCGCTGCCGCAGAGTCCCCAGGCCCTGCAGCAGCTGGTCA
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CAAGACAGGGGAGCTGCCAGGCAGCCCACCACCACCTGAGGAGACAGAGGAGGAGCTGACGGAGCAG
CAGGAGGTCTTGTGGGGGAGGGAGCCCTGACCATGCCCGGGAGGGCTCCACAGAGAGTGAGAGCACAC
AGGAAGACCTGGAGGAGGAGGACGAGGAAGACGATGGGGAGGAGGAGGAGATTGCATCCAGTTAAGGA
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ACCAGGCCCTGGGCCGTACCCAGTCTCCCTGCTGCCCTGGGGCATGAAGAGCCCCCAGACCAGCC
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GCCAGATGTTTTGGCCACTTGACCAGGCAGCTGATGACCCTGGCAGGGGGCCGGTGGTGTGCTGGCCTGG
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CCTGCCCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208656 representing NM_001015053
 Red=Cloning site Green=Tags(s)

MNSPNESADGMSGREPSLEILPRTSLHSIPVTVEVKPVLPRAMPSSMGGGGGGSPSPVELRGALVGSVDP
 TLREQQLQELLALKQQQLKQQLLFAEFQKQHDHLTRQHEVQLQKHLKQQEMLAAKQQEMLAAKRQQ
 ELEQRQREQRQEELEKQRLEQQLLILRNKEKSKESAIASTEVKLRLEFLLSKSKEPTPGGLNHSLPQ
 HPKCGAHASLDQSSPPQSGPPGTPPSYKLLPLPGPYDSRDDDFPLRKTASEPNLKVRSRLKQKVAERRSS
 PLLRRKDGTVISTFKRAVEITGAGPGASSVCNSAPGSGPSSPNSHSTIAENFGTGSVPNIPTEMPLPQH
 RALPLDSSPNQFSLYTSPLPNISLGLQATVTVTNSHLTASPKLSTQQAERQALQSLRQGGTLTKGFMS
 TSSIPGCLLGVALEGDGSPHGHASLLQHVLLLEQARQQSTLIAVPLHGQSPLVTGERVATSMRTVGKLP
 HRPLSRTQSSPLPQSPQALQQLVMQQHQQFLEKQKQQQLQKILTKTGELPRQPTTHPEETEELTEQ
 QEVLLGEGALTMPREGSTESESTQEDLEEEDEEDDGEEDDCIQKDEEGESGAEEGPDLEEPGAGYKLL
 FSDAQPLQPLQVYQAPLSLATVPHQALGRTQSSPAAPGGMKSPDPVKHLFTTGVVYDTFMLKHQCMCG
 NTHVHPEHAGRIQSIWSRLQETGLLSK CERIRGRKATLDEIQTVHSEYHTLLYGTSPNROKLD SKLLG
 PISQKMYAVLPCGGIGVSDTVWNEMHSSAVRMAVGCLLELAFKVAAGELKNGFAIIRPPGHAEESTA
 MGFCCFNVAITAKLLQKLVGKVLIVDWDIHHGNGTQQA FYNDPSVLYISLHYDNGNFFPGSGAPEE
 VGGGPGVGYNVNVAWTGGVDPPIGDVEYLTAFRTVVMPIAHEFSPDVVLVSAGFDAVEGHL SPLGGYSVT
 ARCFGHLTRQLMTLAGGRVVLAL EGGHDLTAICDASEACVSALLSVELQPLDEAVLQKPNINAVATLEK
 VIEIQSKHWSCVQKFAAGLGRSLREAQAGETEEAETVSAMALLSVGAEQAQAAAAAREHSRPAEPEMQE
 PAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8102_a11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

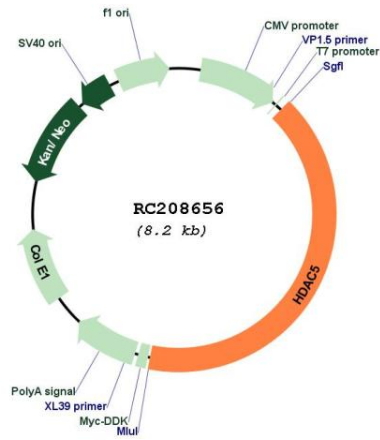


ACCN: NM_001015053

ORF Size: 3369 bp

OTI Disclaimer:	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 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_001015053.2
RefSeq Size:	5327 bp
RefSeq ORF:	3372 bp
Locus ID:	10014
UniProt ID:	Q9UQL6
Cytogenetics:	17q21.31
Protein Families:	Druggable Genome, Transcription Factors
MW:	122 kDa
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 the class II histone deacetylase/acuc/apha family. It possesses histone deacetylase activity and represses transcription when tethered to a promoter. It coimmunoprecipitates only with HDAC3 family member and might form multicomplex proteins. It also interacts with myocyte enhancer factor-2 (MEF2) proteins, resulting in repression of MEF2-dependent genes. This gene is thought to be associated with colon cancer. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC208656