

Product datasheet for **RC200605**

HDAC3 (NM_003883) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC3 (NM_003883) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HDAC3
Synonyms:	HD3; KDAC3; RPD3; RPD3-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC200605 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCAAGACCGTGGCCTATTTCTACGACCCCGACGTGGGCAACTTCCACTACGGAGCTGGACACCCTA
TGAAGCCCCATCGCTGGCATTGACCCATAGCCTGGTCTGCATTACGGTCTCTATAAGAAGATGATCGT
CTTCAAGCCATACCAGGCTCCAGCATGACATGTGCCGTTCCACTCCGAGGACTACATTGACTTCCTG
CAGAGAGTCAGCCCCACCAATATGCAAGGCTTCACCAAGAGTCTTAATGCCTTCAACGTAGGCGATGACT
GCCAGTGTTCCTGGGCTCTTTGAGTTCTGCTCGGTTACACAGGCGCATCTCTGCAAGGAGCAACCCA
GCTGAACAACAAGATCTGTGATATTGCCATTAAGTGGGCTGGTGGTCTGCACCATGCCAAGAAGTTTGAG
GCCTCTGGCTTCTGCTATGTCAACGACATTGTGATTGGCATCCTGGAGCTGCTCAAGTACCACCCTCGGG
TGCTCTACATTGACATTGACATCCACCATGGTACGGGTTCAAGAAGCTTTCTACCTCACTGACCGGGT
CATGACGGTGTCTTCCACAAATACGAAATTAATCTTCCCTGGCACAGGTGACATGTGAAGTCGGG
GCAGAGAGTGGCCGCTACTACTGTCTGAACGTGCCCTGCGGGATGGCATTGATGACCAGAGTTACAAGC
ACTTTTCCAGCCGTTATCAACCAGGTAGTGGACTTCTACCAACCCAGTGCATTGTGCTCCAGTGTGG
AGCTGACTCTCTGGGCTGTGATCGATTGGGCTGCTTAACTCAGCATCCGAGGGCATGGGAATGCGTT
GAATATGTCAAGAGCTTCAATATCCCTCTACTCGTCTGGTGGTGGTGGTTATACTGTCCGAAATGTTG
CCCCTGCTGGACATATGAGACATCGTCTGGTGAAGAGGCCATTAGTGAGGAGCTTCCCTATAGTGA
ATACTTCGAGTACTTTGCCCCAGACTTCACACTTCATCCAGATGTCAGCACCCGCATCGAGAATCAGAAC
TCACGCCAGTATCTGGACCAGATCCGCCAGACAATCTTTGAAAACCTGAAGATGCTGAACCATGCACCTA
GTGTCCAGATTCATGACGTGCCTGCAGACCTCCTGACCTATGACAGGACTGATGAGGCTGATGCAGAGGA
GAGGGTCTGAGGAGAACTATAGCAGGCCAGAGCCACCAATGAGTTCTATGATGGAGACCATGACAA
GACAAGGAAAGCGATGTGGAGATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC200605 protein sequence
 Red=Cloning site Green=Tags(s)

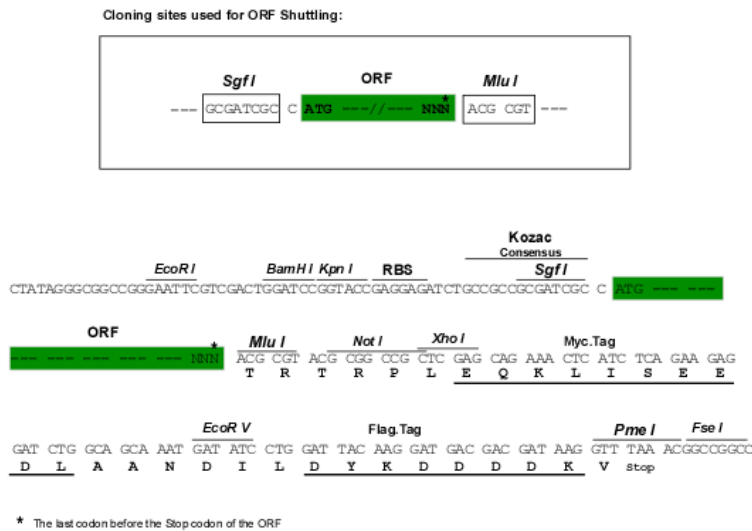
MAKTVAIFYDPDVGNFHYGAGHPMKPHRLALTHSLVLHYGLYKKMIVFKPYQASQHD MCRFHS EYIDFL
 QRVSPNTMQGFTKSLNAFNVDGDCPVFPGLFEFCSRYTGASLQGATQLNKNICDIAINWAGGLHHAKKFE
 ASGFICYNDIVIGILELLKYPVLYIDIDIHGDGQVQEAFFYL TDRVMTVSFHKYGNYPFGTGD MYE V G
 AESGRYCLNVPLRDGIDDQSYKHLFQPVINQVDFYQPTCIVLQCGADSLGCDRLGCFNLSIRGHGECV
 EYKSFNIPLLVLGGGGYTVRNVARCWYETSLLV EEAISEELPYSEYFEYFAPDFTLHPDVSTRIENQN
 SRQYLDQIRQTFENLKM LNHAPSVQIHDVPADLLTYDR TDEADAEERGPEENYSRPEAPNEFYDGDHDN
 DKESDVEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

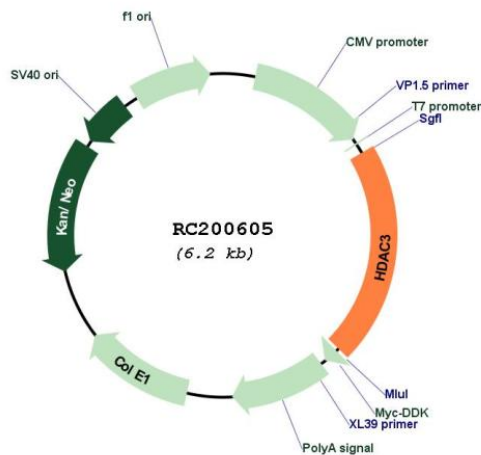
Chromatograms: https://cdn.origene.com/chromatograms/mk6178_b09.zip

Restriction Sites: SgfI-MluI

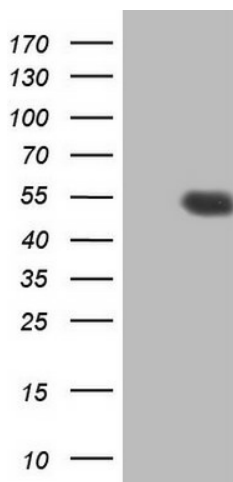
Cloning Scheme:



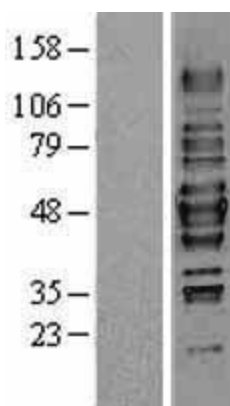
Plasmid Map:



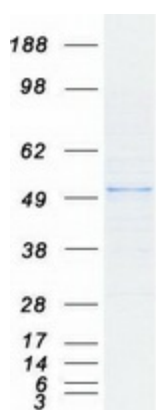
ACCN:	NM_003883
ORF Size:	1284 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_003883.2 , NP_003874.2
RefSeq Size:	1965 bp
RefSeq ORF:	1287 bp
Locus ID:	8841
UniProt ID:	O15379
Cytogenetics:	5q31.3
Domains:	Hist_deacetyl
Protein Families:	Druggable Genome, Transcription Factors
MW:	48.8 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 histone deacetylase/acuc/apha family. It has histone deacetylase activity and represses transcription when tethered to a promoter. It may participate in the regulation of transcription through its binding with the zinc-finger transcription factor YY1. This protein can also down-regulate p53 function and thus modulate cell growth and apoptosis. This gene is regarded as a potential tumor suppressor gene. [provided by RefSeq, Jul 2008]

Product images:


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HDAC3 (Cat# RC200605, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HDAC3(Cat# [TA806191]). Positive lysates [LY401280] (100ug) and [LC401280] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401280]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200605 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HDAC3 protein (Cat# [TP300605]). The protein was produced from HEK293T cells transfected with HDAC3 cDNA clone (Cat# RC200605) using MegaTran 2.0 (Cat# [TT210002]).