

Product datasheet for **RG200605**

HDAC3 (NM_003883) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC3 (NM_003883) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HDAC3
Synonyms:	HD3; KDAC3; RPD3; RPD3-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200605 representing NM_003883 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAAGACCGTGGCCTATTTCTACGACCCCGACGTGGGCAACTTCCACTACGGAGCTGGACACCCTA
TGAAGCCCCATCGCTGGCATTGACCCATAGCCTGGTCTGCATTACGGTCTCTAAGAAGATGATCGT
CTTCAAGCCATACCAGGCTCCAGCATGACATGTCCGCTTCCACTCCGAGGACTACATTGACTTCCTG
CAGAGAGTCAGCCCCACCAATATGCAAGGCTTACCAAGAGTCTTAATGCCTTCAACGTAGGCGATGACT
GCCAGTGTTCGGGCTCTTTGAGTTCTGCTCGGTTACACAGGCGCATCTCTGCAAGGAGCAACCCA
GCTGAACAACAAGATCTGTGATATTGCCATTAAGTGGGCTGGTGGTCTGCACCATGCCAAGAAGTTGAG
GCCTCTGGCTTCTGCTATGTCAACGACATTGTGATTGGCATCCTGGAGCTGCTCAAGTACCACCCTCGGG
TGCTCTACATTGACATTGACATCCACCATGGTGACGGGTTCAAGAAGCTTTCTACCTCACTGACCGGGT
CATGACGGTGTCTTCCACAAATACGGAAATTACTTCTCCCTGGCACAGGTGACATGTATGAAGTCGGG
GCAGAGAGTGGCCGCTACTGTCTGAACGTGCCCTGCGGGATGGCATTGATGACCAGAGTTACAAGC
ACCTTTTCCAGCCGTTATCAACCAGGTAGTGGACTTCTACCAACCCACGTGCATTGTGCTCCAGTGTGG
AGCTGACTCTCTGGGCTGTGATCGATTGGGCTGCTTAACTCAGCATCCGAGGGCATGGGAATGCGTT
GAATATGTCAAGAGCTTCAATATCCCTCTACTCGTGGTGGTGGTTATACTGTCCGAAATGTTG
CCGCTGCTGGACATATGAGACATCGCTGCTGGTAGAAGAGGCCATTAGTGAGGAGCTTCCCTATAGTGA
ATACTTCGAGTACTTTGCCCCAGACTTCACTTCATCCAGATGTCAGCACCCGCATCGAGAATCAGAAC
TCACGCCAGTATCTGGACCAGATCCGCCAGACAATCTTTGAAAACCTGAAGATGCTGAACCATGCACCTA
GTGTCCAGATTATGACGTGCCTGCAGACCTCCTGACCTATGACAGGACTGATGAGGCTGATGCAGAGGA
GAGGGTCTGAGGAGAACTATAGCAGGCCAGAGGCCACCAATGAGTTCTATGATGGAGACCATGACAAT
GACAAGGAAAGCGATGTGGAGATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200605 representing NM_003883
 Red=Cloning site Green=Tags(s)

MAKTVAIFYDPDVGNFHYGAGHPMKPHRLALTHSLVLHYGLYKKMIVFKPYQASQHD MCRFHSEDI DFL
 QRVSP TNMQGFTKSLNAFNVDGDCPVFPGLFEFCSRYTGASLQGATQLNNKICDIAINWAGGLHHAKKFE
 ASGFCYVNDIVIGILELLKYHPRVLYIDIDIHHGDGVQEA FYL TDRVMTVSFHKYGN YFFP GTGDMYEVG
 AESGRYCLNVPLRDGI DDQSYKHLFQPVINQVVDFYQPTCIVLQCGADSLGCDRLGCFNLSIRGHGECV
 EYVKSFNIPLLVLGGGGYTVRNVARCWYETSLLVEEAISEELPYSEYFEYFAPDFLHPDVSTRIENQN
 SRQYLDQIRQTFENLKM LNHAPSVQIHDV PADLLTYDR TDEADAERGP EENYSRPEAPNEFYDGDHDN
 DKESDVEI

TRTRPLE – GFP Tag – V

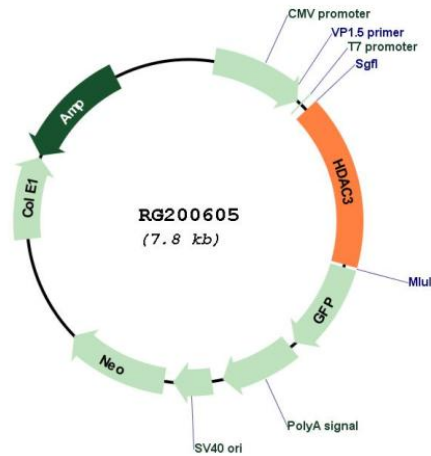
Restriction Sites:

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:	1955 bp
RefSeq ORF:	1287 bp
Locus ID:	8841
UniProt ID:	Q15379
Cytogenetics:	5q31.3
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 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]