

Specifications:

Gene:	<i>h</i> HDAC5
Accession:	NP_005465.2
Insert size:	3382bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

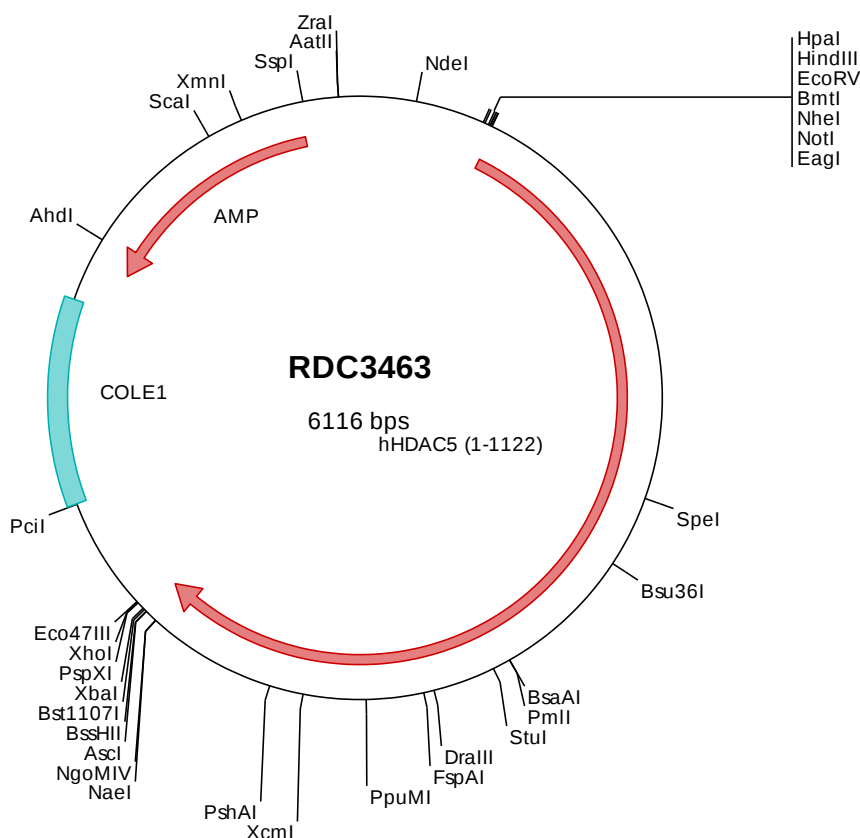
*h*HDAC5 cDNA Plasmid

HDAC5 histone deacetylase 5
[*Homo sapiens* (human)]

Also known as: HD5; NY-CO-9

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. HDAC5 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. HDAC5 is thought to be associated with colon cancer.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC3463 Plasmid DNA Sequence

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401  ggagacgtgt  taacaagcct  ggaatcgata  tcgctagcgc ggccgccacc atgaactctc ccaacgagtc ggatgggatg tcaggttcggg aaccatcctt
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> RDC3463 Translated Insert Sequence

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301  tgagpgpassv cnsapsggsp spnssstia engftgsvpn iptemlpqhr alplddspnq fslytspslp nislglqatv tvtnshltas pklstqqeae
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