*h*HDAC3 VersaClone cDNA

Catalog Number: RDC2872

Specifications:

Gene:	*h*HDAC3
Accession:	NP_003874
Insert size:	1300bp
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

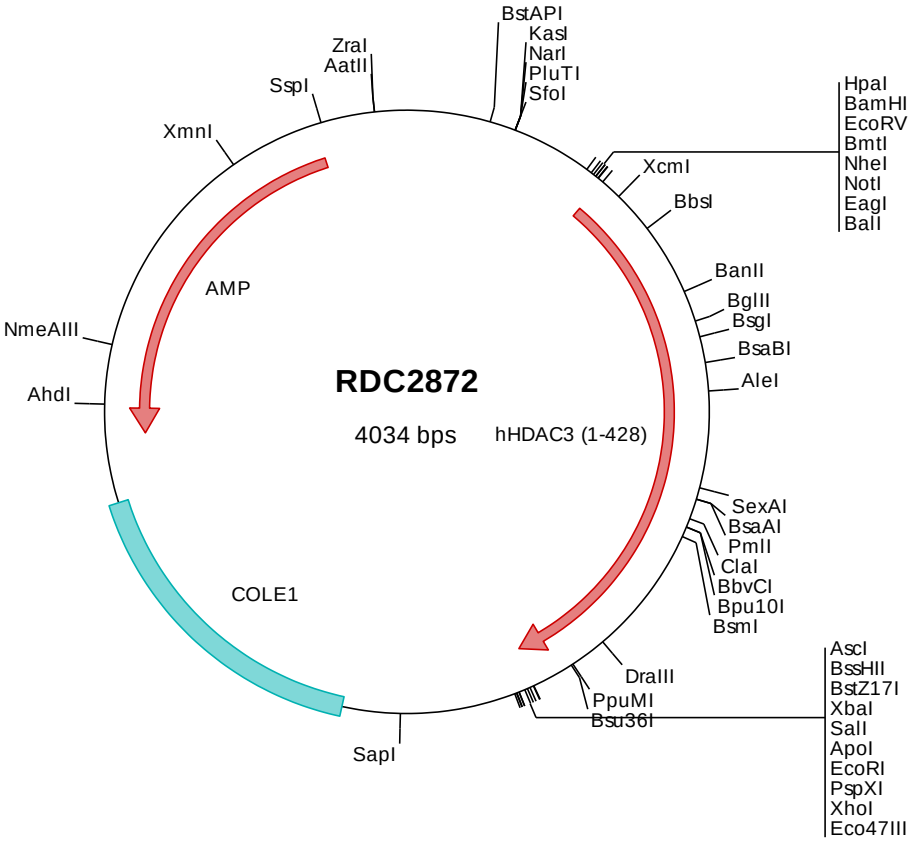
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*HDAC3 cDNA Plasmid

HDAC3 histone deacetylase 3
[*Homo sapiens* (human)]

Also known as: HD3; RPD3; KDAC3; RPD3-2

Summary:
HDAC3 belongs to the histone deacetylase/acuc/apha family. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. 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. HDAC3 can also down-regulate p53 function and thus modulate cell growth and apoptosis. HDAC3 is regarded as a potential tumor suppressor gene.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

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> RDC2872 Plasmid DNA Sequence

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   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atggccaaga ccgtggccta tttctacgac cccgacgtgg gcaacttcca
 501  ctacggagct ggacacccta tgaagcccca tcgcctggca ttgacccata gcctggtcct gcattacggt ctctataaga agatgatcgt cttcaagcca
 601  taccaggcct cccagcatga catgtgccgc ttccactccg aggactacat tgacttcctg cagagagtca gccccaccaa tatgcaaggc ttcaccaaga
 701  gtcttaatgc cttcaacgta ggcgatgact gcccagtgtt tcccgggctc tttgagttct gctcgcgtta cacaggcgca tctctgcaag gagcaaccca
 801  gctgaacaac aagatctgtg atattgccat taactgggct ggtggtctgc accatgccaa gaagtttgag gcctctggct tctgctatgt caacgacatt
 901  gtgattggca tcctggagct gctcaagtac caccctcggg tgctctacat tgacattgac atccaccatg gtgacggggt tcaagaagct ttctacctca
1001  ctgaccgggt catgacggtg tccttccaca aatacggaaa ttacttcttc cctggcacag gtgacatgta tgaagtcggg gcagagagtg gccgctacta
1101  ctgtctgaac gtgcccctgc gggatggcat tgatgaccag agttacaagc acctttttcca gccggttatc aaccaggtag tggacttcta ccaacccacg
1201  tgcattgtgc tccagtgtgg agctgactct ctgggctgtg atcgattggg ctgctttaac ctcagcatcc gagggcatgg ggaatgcgtt gaatatgtca
1301  agagcttcaa tatccctcta ctcgtgctgg gtggtggtgg ttatactgtc cgaaatgttg cccgctgctg gacatatgag acatcgctgc tggtagaaga
1401  ggccattagt gaggagcttc cctatagtga atacttcgag tactttgccc cagacttcac acttcatcca gatgtcagca cccgcatcga gaatcagaac
1501  tcacgccagt atctggacca gatccgccag acaatctttg aaaacctgaa gatgctgaac catgcaccta gtgtccagat tcatgacgtg cctgcagacc
1601  tcctgaccta tgacaggact gatgaggctg atgcagagga gaggggtcct gaggagaact atagcaggcc agaggcaccc aatgagttct atgatggaga
1701  ccatgacaat gacaaggaaa gcgatgtgga gatttaaagg cgcgccagta tactctagag tcgacacccg gggaattcct cgagcgctcg tctctagctt
1801  ggcgtaatca tggtcatagc tgtttcctgt gtgaaattgt tatccgctca caattccaca caacatacga gccggaagca taaagtgtaa agcctggggt
1901  gcctaatgag tgagctaact cacattaatt gcgttgcgct cactgcccgc tttccagtcg ggaaacctgt cgtgccagct gcattaatga atcggccaac
2001  gcgcggggag aggcggtttg cgtattgggc gctcttccgc ttcctcgctc actgactcgc tgcgctcggt cgttcggctg cggcgagcgg tatcagctca
2101  ctcaaaggcg gtaatacggt tatccacaga atcaggggat aacgcaggaa agaacatgtg agcaaaaggc cagcaaaagg ccaggaaccg taaaaaggcc
2201  gcgttgctgg cgtttttcca taggctccgc cccctgacg agcatcacaa aaatcgacgc tcaagtcaga ggtggcgaaa cccgacagga ctataaagat
2301  accaggcgtt tccccctgga agctccctcg tgcgctctcc tgttccgacc ctgccgctta ccggatacct gtccgccttt ctcccttcgg gaagcgtggc
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2601  taggcggtgc tacagagttc ttgaagtggt ggcctaacta cggctacact agaaggacag tatttggtat ctgcgctctg ctgaagccag ttaccttcgg
2701  aaaaagagtt ggtagctctt gatccggcaa acaaaccacc gctggtagcg gtggtttttt tgtttgcaag cagcagatta cgcgcagaaa aaaaggatct
2801  caagaagatc ctttgatctt ttctacgggg tctgacgctc agtggaacga aaactcacgt taagggattt tggtcatgag attatcaaaa aggatcttca
2901  cctagatcct tttaaattaa aaatgaagtt ttaaatcaat ctaaagtata tatgagtaaa cttggtctga cagttaccaa tgcttaatca gtgaggcacc
3001  tatctcagcg atctgtctat ttcgttcatc catagttgcc tgactccccg tcgtgtagat aactacgata cgggagggct taccatctgg ccccagtgct
3101  gcaatgatac cgcgagaccc acgctcaccg gctccagatt tatcagcaat aaaccagcca gccggaaggg ccgagcgcag aagtggtcct gcaactttat
3201  ccgcctccat ccagtctatt aattgttgcc gggaagctag agtaagtagt tcgccagtta atagtttgcg caacgttgtt gccattgcta caggcatcgt
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3401  tccttcggtc ctccgatcgt tgtcagaagt aagttggccg cagtgttatc actcatggtt atggcagcac tgcataattc tcttactgtc atgccatccg
3501  taagatgctt ttctgtgact ggtgagtact caaccaagtc attctgagaa tagtgtatgc ggcgaccgag ttgctcttgc ccggcgtcaa tacgggataa
3601  taccgcgcca catagcagaa ctttaaaagt gctcatcatt ggaaaacgtt cttcggggcg aaaactctca aggatcttac cgctgttgag atccagttcg
3701  atgtaaccca ctcgtgcacc caactgatct tcagcatctt ttactttcac cagcgtttct gggtgagcaa aaacaggaag gcaaaatgcc gcaaaaaagg
3801  gaataagggc gacacggaaa tgttgaatac tcatactctt cctttttcaa tattattgaa gcatttatca gggttattgt ctcatgagcg gatacatatt
3901  tgaatgtatt tagaaaaata aacaaatagg ggttccgcgc acatttcccc gaaaagtgcc acctgacgtc taagaaacca ttattatcat gacattaacc
4001  tataaaaata ggcgtatcac gaggcccttt cgtc
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> RDC2872 Translated Insert Sequence

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101  fefcsrytga slqgatqlnn kicdiainwa gglhhakkfe asgfcyvndi vigilellky hprvlyidid ihhgdgvqea fyltdrvmtv sfhkygnyff
201  pgtgdmyevg aesgryycln vplrdgiddq sykhlfqpvi nqvvdfyqpt civlqcgads lgcdrlgcfn lsirghgecv eyvksfnipl lvlggggytv
301  rnvarcwtye tsllveeais eelpyseyfe yfapdftlhp dvstrienqn srqyldqirq tifenlkmln hapsvqihdv padlltydrt deadaeergp
401  eenysrpeap nefydgdhdn dkesdvei
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