

Specifications:

Gene:	hHDAC2
Accession:	NP_001518.3
Insert size:	1480bp
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.

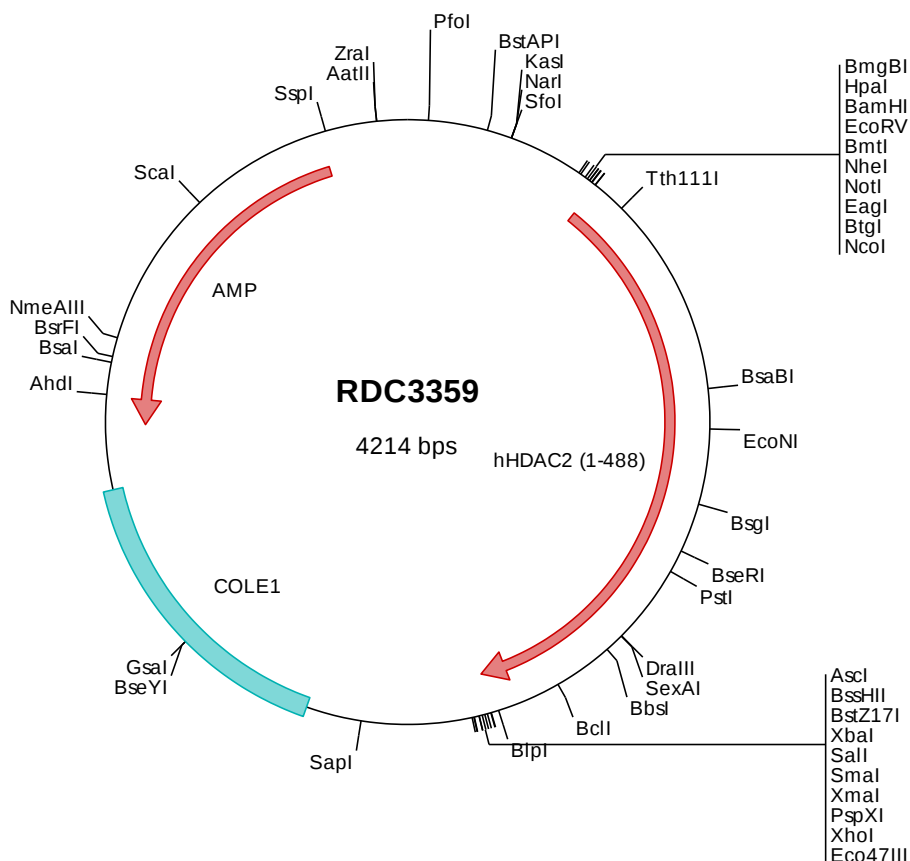
hHDAC2 cDNA Plasmid

HDAC2 histone deacetylase 2
[*Homo sapiens* (human)]

Also known as: HD2; RPD3; YAF1;
KDAC2

Summary:

HDAC2 belongs to the histone deacetylase family. Histone deacetylases act via the formation of large multiprotein complexes and are responsible for the deacetylation of lysine residues at the N-terminal regions of core histones (H2A, H2B, H3 and H4). HDAC2 forms transcriptional repressor complexes by associating with many different proteins, including YY1, a mammalian zinc-finger transcription factor. Thus, it plays an important role in transcriptional regulation, cell cycle progression and developmental events. Alternatively spliced transcripts encoding different proteins have been described.



> RDC3359 Plasmid DNA Sequence

```

1   tcgcgcgcttt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacgggtca cagcttgtct gtaagcggat gccggggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctcgcc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaagg ggaatgtctg caaggcgatt aagttgggta agcccgagggt tttcccgatc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgcacc atggcgtaga gtcaaggagg cggaacaaaa aaagtctgtc actactacga
501  cgggtgatatt ggaaattatt attatggaca gggtcatccc atgaagctcc atagaatccg catgacccat aacttgcgtg ttaaattatg cttatacaga
601  aaaatggaaa tatataggcc ccataaagcc actgcgcaag aaatgacaaa atatcacagt gatgagtata tcaaatcttc acgggtcaata agaccagata
701  acatgtctga gtatagtaag cagatgcaga gatttaattg tggagaagat gtccagtggt ttgatggact ctttgagttt tgtagctct caactggcgg
801  ttcagttgct ggagctgtga agttaaaccg acaacagact gatatggctg ttaattgggc tggaggatta catcatgcta agaaatcaga agcatcagga
901  ttctgttacg ttaatgatat tgtgcttgcc atccttgaat tactaaagta tcacagagag gtcttatata ttgatataga tattcatcat ggtgatggtg
1001 ttgaagaagc ttttttatca acagatcggt taatgacggt atcattccat aaatatgggg aatactttcc tggaacagga gacttgaggg atattggtgc
1101 tggaaaaggg aaatactatg ctgtcaattt tcacatgaga gatggtatag atgatgagtc atatgggcag atatttaagc ctatttatct aaaggtgatg
1201 gagatgtatc aactagtgct tgtggttata cagtggtggt cagactcatt atctggtgat agactggggt gtttcaatct aacagtcaca ggtcatgcta
1301 aatgtgtgaga agttgtaaaa acttttaact taccattact gatacttgga ggaggtgggt acacaatccg taattgttgc cgaattgtgc catattgagc
1401 tgcagttgct cttgattgtg agattcccaa tgaattgcca tataatgatt actttgagta ttttggacca gacttcaaac tgcattatag tccttcaaac
1501 atgacaaaac agaacactcc agaatatatg gaaaagataa aacagcgctt gtttgaaaat ttgcgcagtg tacctcatgc acctggtgct cagatgcaag
1601 ctattccaga agatgtggtt catggaagca gtggagatga agatggagaa gatccagaca agagaatttc tattcgagca tcagacaagc ggaatgcttg
1701 tgatgaagaa ttctcagatt ctgaggatga aggagaagga ggtcgaagaa atgtggtcga tcataagaaa ggagcaaaag aagctagaat tgaagaagat
1801 aagaaagaaa cagaggacaa aaaaacagac gttaaggaag aagataaatc caaggacaa agtgtgaaa aaacagatac caaaggaacc aaatcagaac
1901 agctacagaa ccctctaaag cgcgcagta tactctagag tcgacacccg gggaattcct cgaagcgtcg tctctagctt ggcgtaatca tggctatagc
2001 tgtttctcgt gtgaaattgt tatccgctca caattccaca caacatacga gccggaagca taaagtgtaa agcctggggt gcctaagtag tgagctaaat
2101 cacattaatt gcgttgctcg cactgcccgc tttccagtcg ggaaacctgt cgtgcagctg gcattaatga atcgcccaac gcgcggggag aggcggtttg
2201 cgtattgggc gctcttcgct ttctctcgct actgactcgc tgcgctcggt cgttcggctg cggtgcagcg ctcaaaagcg ctcaaaagcg gtaaatcggt
2301 tatccacaga atcaggggat aacgcagaaa agaacatgtg agcaaaagcg cagcaaaagc caggaaacgc taaaaagggc taaaaagggc cgtttttcca
2401 taggtctcgc cccctgacg agcatcacaa aaatcgacgc tcaagtacga ggtggcgaaa ccccacagga ctataaagat accagcgctt ccccctgga
2501 agctccctcg tgcgctctcc tgttccgacc ctgcgcttta ccggaatcga gtccgccttt ctccctctcg gaagcgtggt gctttctcaa tgtctacgct
2601 gtaggtatct cagttcggtt taggtcgctt gctccaagct gggctgtgtg cacgaacccc ccgttcagcc cgaccgctgc gccttatccg gtaactatcg
2701 tcttgagtc aaccggttaa gaacacgact atcgccactg gcagcagcca ctggttaacag gattagcaga gcgaggtatg taggcggtgc tacagagttc
2801 ttgaagtgtg ggcctaaacta ggcctacact agaagggacag tatttggat ctgcgctctg ctgaagccag ttacctcgg aaaaagagtt ggtagctctt
2901 gatccggcaa acaaacacc gctggtagcg gtggtttttt tggttgcaag cagcagatga cgccagaaaa aaaaggatct caagaagatc ctttgatctt
3001 ttctacgggg tctgacgctc agtggaaacga aaactcacgt taagggattt tggtcatgag attatcaaaa aggatctcca ctagatcctt tttaaatata
3101 aaatgaagtt ttaaatcaat ctaaagtata tatgagtaaa cttggctcga cagttaccaa tgcttaatac gtgaggcacc tatctcagcg atctgtctat
3201 ttcgttcatc catagttgcc tgactccccg tcgtgtagat aactacgata cgggaggggt taccatctgg ccccagtgct gcaatgatac cgcgagaccc
3301 acgctcaccg gtccagatt tatcagcaat aaaccagcca gccggaagg cgcagcgcag aagtgttctt gcaactttat ccgctcccat ccagctctat
3401 aattgttgcc gggaagctag agtaagtagt tcgccagta atagtttg caacgttgtt gccattgcta caggcatcgt ggtgtcacgc tcgtcgtttg
3501 gtatggcttc attcagctcc ggttcccaac gatcaaggcg agttacatga tcgccatagt tgtgcaaaaa agcggttagc tccttcgggc ctccgatcgt
3601 tgtcagaagt aagttggccg cagtggttat actcatggtt atggcagcac tgcaataatc tcttactgtc atgccatccg taagatgctt ttctgtgact
3701 ggtgagtact caaccaagtc attctgagaa tagtgtatgc ggcgaccgag ttgctcttgc ccggcgctca tacgggataa taccgcgcca catagcagaa
3801 ctttaaaagt gctcatcatt ggaaaaagct cttcggggcg aaaactctca aggatcttac cgctgttgag atccagttcg atgtaaccca ctcgtgcacc
3901 caactgatct tcagcatctt ttactttcac cagcgtttct gggtgagcaa aaacagggaag gcaaaaatgc gaataagggc gacacggaaa gacacggaaa
4001 tggtgaatac tcatactctt cttttttcaa tattattgaa gcatttatca gggttatgtt ctcatgagcg gatacatatt tgaatgtatt tagaaaaata
4101 aacaaatagg ggttcgcgcg acattttccc gaaaagtgc acctgacgtc taagaaacca ttattatcat gacatttaac tataaaaaata ggcgtatcac
4201 gaggcccttt cgctc

```

> RDC3359 Translated Insert Sequence

```

1   maysqgggk kvccyydgd gnyyygqgh mkphirmth nllnyglyr kmeiyrphka taeemtkyhs deyikflrsi rpdnmseysk qmqrfnvged
101  cpvfdglfef cqlstggsva gavklmrqt dmavnwaggl hhakkseasg fcyvndivla ilellkyhqr vlyididihh gdgveeafyt tdrvmvtsfh
201  kygeyfpgtg dlrdigagkg kyyavnfpmr dgiddesygq ifkpiiskvm emyqpsavvl qcgadslsgd rlqcfnlvkv ghakcvevvk tfnlplmlg
301  ggytirnva rcwtyetava ldceipnelp yndyfeifgp dflklhispsn mtgnqtpmym ekikqrlfen lrmlphapgv qmqaipedav hedsdgedge
401  dpdkrisira sdkriacdee fsdsedegeg grnnvadhhk gakkarieed kketedkktv vkeedkskdn sgekttdktg kseqlsnp

```