

Product datasheet for **RR211585**

Hdac2 (NM_053447) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hdac2 (NM_053447) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hdac2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR211585 representing NM_053447
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCGTACAGTCAAGGAGGCGCAAGAAGAAAGTGTGCTACTATTATGACGGTGATATCGGAATTATT
 ATTACGGCCAGGGTCATCCCATGAAGCCCATAGGATCCGGATGACTCATAAATTGCTTCTAAATTATGG
 TTTATACCGAAAAATGGAATATATAGGCCTCATAAGGCCACTGCTGAAGAAATGACAAAATACACAGT
 GATGAGTATATCAAGTTTCTACGATCAATAAGGCCAGATAACATGTCAGAGTATAGTAAGCAGATGCAGA
 GATTTAATGTCGGAGAAGACTGTCCAGTGTTCGATGGACTCTTTGAGTTTGTGCTGCTCCACCGGTGG
 CTCAGTTGCTGGGGCCGTGAAGCTGAACCGTCAACAGACTGACATGGCTGTCAACTGGCGGGGAGGACTG
 CACCACGCCAAGAAGTCAAGGCCTCAGGATTCTGCTACGTTAATGACATTGTGCTTGTCTCCTCGAGC
 TACTGAAATATCATCAGAGAGTCTTATATATTGACATAGACATCCACCATGGTGTGGTGTGAGGAAGC
 TTTTATACAACAGATCGCGTGTGACCGTCTCATTCCATAAATACGGAGAATACTTTCTGGAACAGGA
 GACTTGAGGGATATTGGTGTGAAAAGGAAAGTACTACGCTGTCAACTTTCCCATGAGGGACGGTATAG
 ATGACGAGTCATATGGACAGATATTTAAGCCTATAATCTCAAAAGTGTGGAGATGTACCAGCCGAGCGC
 GGTGGTGTGTCAGTGTGGCGTACTCCCTCTCTGGTGACAGGCTGGGCTGCTTCAACCTAACTGTCAAA
 GGTACGCTAAATGTGTAGAAGTGTGAAAACCTTTAACTTGGCGTTGCTGATGCTTGGCGGAGGTGGCT
 ACACAATCCGGAATGTTGCTCGATGTTGGACGTATGAGACTGCAGTTGCCCTTGATTGTGAAATCCCAA
 TGAGTTGCCATATAATGATTACTTCGAGATTTTGGACCAGACTTCAAACGATATTAGTCCCTCAAAC
 ATGACAAAACGAGAACTCCAGAATATATGGAAAAGATAAAACAGCGTTTATTTGAAAATCTGCGAATGT
 TACCACATGCGCCTGGTGTCAAATGCAAGCTATTCCAGAAGATGCTGTTTCAAGACAGTGGTGTGATGA
 GGATGGAGAAGACCTGACAAGAGAATTTCTATTCGAGCATCAGACAAGCGGATAGCTTGTGATGAAGAG
 TTCTCAGATTCTGAGGATGAAGGTGAAGGAGGTCGTAGGAATGTCGCTGATCATAAGAAGGGAGCCAAAA
 AAGCCAGGATTGAGGAAGACAAGAAGGAGGCGGAGGACAAGAGGACAGATGTTAAGGAAGAAGACAAATC
 CAAGGACAATAGTGGTGAAGAAACAGACACCAAAGGAGCCAAATCAGAACAACCTCAACAACCT

ACCGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR211585 representing NM_053447
 Red=Cloning site Green=Tags(s)

MAYSQGGGKKKVCYYDGDIGNYYYQGHPMKPHRIRMTHNLLLNYGLYRKMEIYRPHKATAEEMTKYHS
 DEYIKFLRSIRPDNMSEYSKMQRFNVGEDCPVFDGLFEFCQLSTGGSVAGAVKLNRRQQTDMAVNWAGGL
 HHAKKSEASGFCYVNDIVLAVLELLKYHQRVLYIDIDIHHGDGVVEAFYTTDRVMTVSFHKYGEYFPGT
 DLRDIGAGKGYAVNFPMRDGIIDESYQIFKPIISKVMEMYPQSAVVLQCGADSLSGDRLGCFNLTVK
 GHAKCVEVVKTFNLPLMLGGGGYTIRNVARCWYETAVALDCEIPNELPYNDYFEYFGPDFKLHISPSN
 MTNQNTPEYMEKIKQRLFENLRMLPHAPGVQMQAIPEDAVHEDSGDEDGDPDKRISIRASDKRIACDEE
 FSDSEDEGEGRRNVADHKKGAKKARIEEDKKEAEDKRTDVKEEDKSKDNSGEKTDTKGAKSEQLNPN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja2772_e07.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:

ACCN: NM_053447

ORF Size: 1464 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

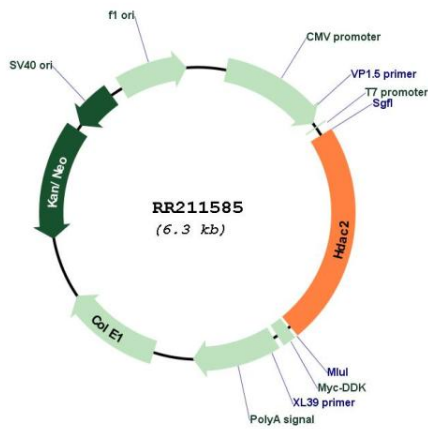
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:**
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_053447.1](#), [NP_445899.1](#)
RefSeq Size: 2195 bp
RefSeq ORF: 1467 bp
Locus ID: 84577
Cytogenetics: 20q12
MW: 55.3 kDa
Gene Summary: may be involved in chromatin rearrangement during neural differentiation [RGD, Feb 2006]

Product images:



Circular map for RR211585