

Product datasheet for **RR217458**

Hdac4 (NM_053449) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hdac4 (NM_053449) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hdac4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR217458 representing NM_053449 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTCCCAAAGCCATCCAGATGGACTTTCTGGCCGAGACCAGCCTGTGGAGCTGCTGAATCCTGCC
CGGTGAACCACATGCCAGCACGGTGGACGTGGCTACAGCGCTGCCTCTGCAGGTGGCCCTGCAGCAGT
ACCCATGGACCTGCGCTTGGACCACAGTTCTCACTGCCCTTGGAACTGCACTGCGGGAGCAGCAACTG
CAGCAGGAACCTCTAGCACTGAAGCAGAAGCAGCAGATCCAGCGGAGATCCCTATTGCAGAGTTCCAGC
GTCAGCATGAGCAGTTGTCCCGACAGCATGAGGCACAGCTGCATGAACATATCAAGCAGCAGCAGGAGAT
GCTGGCCATGAAGCACCAGCAGGAGCTGCTGGAGCACCAGCGGAACTGGAGCGGACCGGCAAGAGCAG
GAGCTGGAGAAGCAGCACCGTGAGCAGAAGCTGCAGCAGCTCAAGAACAAGGAGAAGGGCAAAGAGAGTG
CTGTGGCGAGCACAGAGGTGAAGATGAAGCTGCAGGAGTTTGTCTCAACAAGAAGAAGGCTCTGGCCCA
CCGGAACCTGAACCACTGCATGTCCAGCGACCCCGCTACTGGTATGGGAAGACACAGCACAGCTCCCTT
GACCAGAGCTCTCACCCAGAGTGGGGTGTGAGCCTCTACAACCCTGTCTTGGGAATGTACGACG
CCAAAGATGACTTCCCTTAGGAAAACAGCTTCTGAACCTAACCTGAAATACGGTCAAGGCTTAAGCA
GAAAGTAGCTGAGAGACGGAGCAGCCCCCTGCTGCGCAGGAAAGATGGCCCTGTGGCCACTGCTCTAAA
AAGCGACCCTGGATGTTACAGACTCCGCATGTAGCAGCGCCCTGGCTCCGGTCCAGCTCCCCAATA
GCAGCTCTGGCAACGTACAGCACCAGAAATGGCATTGCACCCACCGTGCCAGCACTCCAGCTGAGACGAG
CTTGGCACACAGACTTGTGACTCGAGAAGGCTCTGTTGCCCACTTCTCTATACATACCATCCTTG
CCCAACATCACCTGGGACTTCCCTGCCACTGGCCCTGCTGCTGGTGCAGCAGGCCAGCAGGATGCTGAGA
GGCTTGCTCTCCAGCCCTCCAGCAGCGAATCTCCTTGTTCCTGGGACCCACCTCACCCATACCTGAG
CACCTCGCCCTGGAGCGGGACGGTGGAGCAGCTACAACCCCTCCTGCAGCACATGGTCTGTGGAG
CAGCCACCCAGCAGCCCCCTGTACAGGCCTGGGGCACTGCCCTCCACACACAGTCCCTGGTTG
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ACCCCTGCCGAGAACGACAGGCCCTGCAGCACCTGGTATCCAGCAGCAGCAGCAGCAGTTCCTGGAG
AAGCACAAGCAACAGTTCCAGCAGCAGCAGCTGCACCTCAGCAAGATGATTTCTAAACCCAGTGAGCCAC
CTCGGCAGCTGAGAGCCACCCGGAGGAGACAGAGGAGGAGCTCCGTGAACACCAGGCCTTGTGGATGA



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GCCCTACCTAGATCGGCTCCCTGGGCAGAAGGAGCCCTCCTTAGCTGGTGTGCAGGTGAAGCAGGAGCCC
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 AGGAGCTTCTCTTTAGACAGCAAGCTCTTCTGCTGGAGCAGCAGAGGATCCACCAGTTAAGGAACTACCA
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 GCCATGGCCTCGCTGTCTGTAGGCGTCAAACCTGCTGAGAAGAGATCTGAGGAGGAGCCCATGGAGGAG
 AGCCACCACTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR217458 representing NM_053449

Red=Cloning site Green=Tags(s)

MSSQSHPDGLSGRDQPVELLNPARVNHMPSTVDVATALPLQVAPAAVPMDLRLDHQFSLPLEPALREQQL
 QQELLALKQKQIQRQILIAEFQRQHEQLSRQHEAQLHEHIKQQQEMLAMKHQELLEHQRLERHRQEQ
 ELEKQHQKQLQQLKNEKKGKESAVASTEVMKMLQEFVLNKKKALAHRLNHCMSDPRYWGKTQHSSL
 DQSSPPQSGVSASYNHPVLGMYDAKDDFPLRKTASEPNLKLRSRLKQKVAERRSSPLLRRKDGPVATALK
 KRPLDVTDSACSSAPGSGPSSPNSSSGNVSTENGIAPTVPSTPAETSLAHLVREGSVAPLPLYTSPSL
 PNITLGLPATGPAAGAAGQDAERLALPALQQRISLFPGTHLTPYLSTSPLERDGGAAHNPLLQHMVLL
 QPPTQTPLVTGLGALPLHTQSLVGADRVSPSIHKLQRHRPLGRTQSAPLPQNAQALQHLVIQQHQQFLE
 KHKQQFQQQLHLKMIKPSSEPPRQPEHPPEETEEELREHQALLDEPYLDRLPGQKEPSLAGVQVQEP
 IESEEEVEATREAEPSQRPAEQELLFRQQALLLEQQRIRHQLRNYQASMEAAGIPVSFGSHRPLSRAQS
 SPASATFPMSVQEPPTKPRFTTGLVYDTLMLKHQCTCGNTNSHPHEAGRIQSIWSRLQETGLRGKCECIR
 GRKATLEELQTVHSEHTLLYGTNPLNRQKLDSSLTSVFLPVGCVGSDTIWNEVHSSGAARLAVGC
 VVELVFKVATGELKNGFAVVRPPGHAEESTPMGFCYFNVAIAAKLLQQRLNVSKILIVDWDVHHGNGT
 QQAFYNDPNVLYMSLHRYDDGNFFPFGSAPDEVTGPGVGFNVNMAFTGGLDPPMGDAEYLAAFRTVVM
 IANEFAPDVVLVSSGFDAVEGHPTPLGGYNLSAKCFGYLTKQLMGLAGGRIVLALLEGHDLTAICDASEA
 CVSALLGNELEPLPEKVLHQRPNANAVHSMKVMGIHSEYWRCLQRLSPTVGHSLIEAQKCENEEAETVT
 AMASLSVGVKPAEKRSSEEPMEEEPPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_053449

ORF Size: 3231 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:**
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_053449.1](#), [NP_445901.1](#)

RefSeq Size: 4015 bp

RefSeq ORF: 3234 bp

Locus ID: 363287

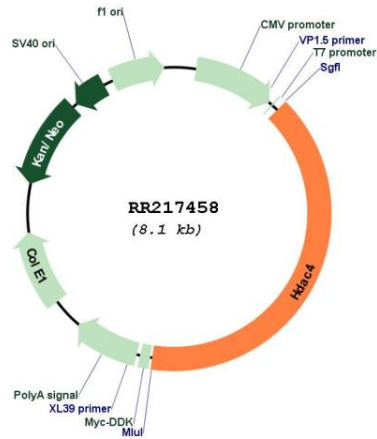
UniProt ID: [Q99P99](#)

Cytogenetics: 9q36

MW: 118.7 kDa

Gene Summary: human homolog is a component of the DNA damage response pathway and is also involved in repression of muscle differentiation [RGD, Feb 2006]

Product images:



Circular map for RR217458