

Product datasheet for MC202651

Hdac4 (NM_207225) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hdac4 (NM_207225) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hdac4
Synonyms:	4932408F19Rik; HD4
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC066052 sequence for NM_207225
 CGGGCCTCCTCAATTTTGTTCCTGCATGTGCTGGTGGAAATTTGGAGTGTGTTGGAGCCACTGTTTACCT
 GGACATCTTGAGCCATTTTGAACCTAAGGCACCTGACGCTGCTAGCAATGAGCTCCCAAAGCCATCCAGAT
 GGACTTTCTGGCCGAGACCAGCCTGTGGAGCTGCTGAATCCTGCCCGTGTGAACCACATGCCCAGCACGG
 TGGACGTGGCTACAGCGCTGCCTCTGCAAGTGGCCCTACAGCAGTACCCATGGACCTGCCTTGGACCA
 CCAGTTCTCACTGCCCTTGAACCTGCATTGCGGGAGCAGCAACTGCAGCAGGAACCTCTAGCACTGAAA
 CAGAAGCAGCAGATCCAGCGGCAGATACTATTGCAGAGTTCCAGCGTCAACATGAGCAGTTGTCCCGAC
 AGCATGAGGCACAGTTGCATGAACATATCAAGCAGCAGCAGGAGATGCTGGCCATGAAGCACCAGCAGGA
 GCTGCTGGAGCACCAGCGGAAACTGGAGCGGCACCGGCAAGAGCAGGAGCTGGAGAAGCAGCACCCTGAG
 CAGAAGCTGCAGCAGCTCAAGAACAAGGAGAAGGGCAAAGAGAGTGTGTGGCGAGCACAGAGGTGAAGA
 TGAAGCTGCAGGAGTTTGTCTCAACAAGAAGAAGGCTCTAGCCCACCGAACCTGAACCACTGCATTTT
 CAGCGATCCCCGCTACTGGTATGGGAAGACACAGCACAGCTCCCTTGACCAGAGCTCTCCACCCAGAGT
 GGGGTGTGAGCCTCCTACAACCACCCCGTCTTGGGAATGTACGACGCCAAAGATGACTTCCCTCTTAGGA
 AAACAGCTTCTGAACCTAACCTGAAATTACGCTCAAGGCTTAAGCAGAAAGTAGCTGAGAGACGGAGCAG
 CCCCTGTTGGCAGGAAAGATGGCCCTGTGGCCACTGCTCTAAAAAAGCGACCCCTGGATGTTACAGAC
 TCCGCATGCAGCAGCGCCCTGGCTCCGGTCCCAGCTCTCCAAATAGCAGCTCTGGCAACGTGAGCACTG
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 GCCACTGGCCCTGCCGCTGGTGGCGCAGGTCAGCAGGATGCTGAGAGGCTTGTCTCCAGCTCTCCAGC
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 CAGCTGCACCTCAGCAAGATAATCTCCAAACCTAGTGAGCCACCTCGGCAGCCTGAGAGCCACCCAGAGG
 AGACAGAGGAGGAGCTCCGTGAGCACCAGGCTTGTGGATGAGCCCTACCTAGATCGGCTACCTGGGCA
 GAAGGAGCCCTCCCTGGTGGTGTGAGGTTGAAGCAGGAGCCATTGAGAGTGAGGAGGAAGAAGCGGAG



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GCCACTCGAGAGACAGAGCCCGGCCAGCGCCAGCCACTGAGCAGGAGCTGCTCTTCAGACAGCAAGCCC
TCCTACTGGAGCAGCAGAGGATCCACCAGTTAAGAACTACCAGGCATCTATGGAGGCTGCTGGCATCCC
TGTGTCATTTGGCAGCCACAGACCTCTGTCTCGGGCAGTCCTCCCCAGCATCTGCCACCTTCCCCATG
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CCAAATGTTTTGGTACTTGACAAAACAGCTGATGGGCTTAGCTGGTGGCCGGCTTGTGCTGGCCCTTGA
GGGAGGCCATGACCTGACAGCCATCTGTGATGCTTCTGAAGCCTGCGTGTCTGCTGCTGGGAAACGAG
CTTGAGCCTCTGCCAGAAAAGTTCTACATCAGAGACCAATGCCAATGTGTCCACTCCATGGAGAAAAG
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TGAGGGCAGAAAAGTGTGAGAAGGAAGAAGCTGAGACAGTACCAGCATGGCCTCGCTGTCTGTAGGCGTC
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TGGTGTCTCTTTGAGTACAAAAGGACAGCAGCGCTGCAGCAGCAACGGGAAGCCTTCTCGCCGCCCTGGA
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ACACGGGCACACAGACATGTGGAAGCCAAGCACACGCTGGTGGCTCCCCCTCCCCCTGGGAAGCCTCGAA
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TCTAATAATACAGAACAACTTGATTAATACTGGTGTAAACATTTGATTCTTACCCACAATCCCACAGT
CTCCGTGTAACCACTCAACTCATCTTGTAGCTTTTTTTTTTTTTTAAACGAAAACAAAACATTTTCTA
TGGCTCTGGCCTGCCTTGTGAACCTTAGTGGGGTGTGTGGGGTTCACAGCTTAGTGAGGGACAGAGTT
GGAAGAAAGTTTAAACGAAAAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites: Ascl-NotI

ACCN: NM_207225

Insert Size: 3231 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](#)

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:	<ol style="list-style-type: none">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:	<u>BC066052</u> , <u>AAH66052</u>
RefSeq Size:	3960 bp
RefSeq ORF:	3231 bp
Locus ID:	208727
UniProt ID:	<u>Q6NZM9</u>
Cytogenetics:	1 D
Gene Summary:	Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. Involved in muscle maturation via its interaction with the myocyte enhancer factors such as MEF2A, MEF2C and MEF2D. Deacetylates HSPA1A and HSPA1A at 'Lys-77' leading to their preferential binding to co-chaperone STUB1.[UniProtKB/Swiss-Prot Function]