

## Product datasheet for **MC229195**

### Hdac7 (NM\_001204277) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hdac7 (NM_001204277) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hdac7
Synonyms:	5830434K02Rik; HD7; HD7a; Hdac7a; mFLJ00062
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC229195 representing NM\_001204277  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCACAGCCCCGGCGGGGCTGCCTGCCTCCAGCCAGACACACCAGGCTCTCAGCCCCAACCCATGG  
 ACCTGCGGGTGGGCCAGCGGCCACGGTGGAGCCCCACCAGAGCCTGCGCTGCTGACCCTGCAACACCC  
 CCAACGCCTGCACCGCCATCTTCTTCTGCGAGGCTTACACCAGCAACAGCGCTCAGCCGAGCCCATGAGG  
 CTCTCCATGGACCACCAATGCCGGAGCTGCAGGGGGACAGCAGGAGCAAGAATTCGGCAACTTCTCA  
 ATAAGACAAGAGCAAGCGAAGTCCGTAGCCAGCAGTGTGGTCAAGCAGAAGCTGGCTGAAGTGATCCT  
 GAAGAAACAGCAGGCAGCCCTTGAGAGAACAGTCCATCCAGCAGCCCCAGTATTCCTACAGCCTGCC  
 ACTGAACCCCGAACACTTCCCTTTCGTAACAGTGTCTGAACCCAACTGAAGTTGCGCTACAAC  
 CCAAGAAATCCCTGGAGAGACGCAAGAATCCCCTGCTCAGGAAGGAGAGTCCCCCGCCAGCCTTCGGAG  
 GAGGCCTGCCGAGACCCTTGAGATTCTCCCCAGTAGTAGCAGCACACCCGCGTCAGGGTGCAGCTCC  
 CCTAATGACAGCGAGCATGGCCCTAACCTGCCCTAGGCTCAGAGGCGCTCTGGGCCAGCGGCTGCGGC  
 TGCAGGAGACTTCTTGCCCCGTTTCGCTTTCGCGACAGTGTCTTGTGCCCGCAATCACACTGGGGCT  
 GCCTGCCCTGCCAGGGCTGATGGTGACCGCAGGACCCATTCAACTTTAGGCCCTCGGGGCTCCTGTACTG  
 GGAACCCCATGCTCCCTCTTCTGCACCACGGTCTGGAGCCAGAGGCTGGGGGCACCTTACCCTCTC  
 GCCTGCAACCCATTCTCTGCTGGACCCCTCAGTCTCTCATGCCCACTGTGGACTGTGCCTGGCCTTGG  
 GCCCTTGCCTTCCACTTTCGCCAGCCCTACTGACCACCGAGCGGCTCTCTGGGTGAGGCTCCATCGA  
 CCACTTAACCGGACCCGCTCAGAGCCCTGCCCGCCAGCGCCACAGCCTCCCTCTGCTGGCCCCCTGC  
 AGCCCCGCCAGGATCGGCTCAAACCTCAGTCCAGTGTCAAGAGGCCCTGCCAAGCCAGTGAAGAAGCC  
 CGGACTGCGACAGATACCCTCGGCTGAGGACCTAGAGACAGATGGTGGGGGAGTGGGACCTATGGCGAAT  
 GATGGCCTGGAACATAGGGAGTCAAGCCGTGGGCTCCTGAGGGCAGAGGCTCCATTTCTCTGCAGCAGC  
 ATCAACAGGTGCCACCCTGGGAGCAGCAGCATCTAGCCGGCGGGCTCTCTCAGGGAAGCCCCGGGGACTC  
 CGTGCTGATACCTCTGGCCAGGTTGGACACCGGCCCTGTCCAGAACCAGTCTCCCCAGCAGCACCT  
 GTCTCCCTGCTGAGCCCAGAGCCACCTGTGACCCCAAGTCTCAACAGCTCAGAGACACCTGCTACAG  
 GGCTGGTCTATGACTCGGTGATGCTGAAACACCAATGTTCTGTGGAGACAACAGCAAGCATCCCGAGCA  
 TGCAGGCCGATCCAGAGCATCTGGTCCCGGCTGCAGGAACGGGGTCTCCGACCCAGTGTGAGTGTCTC  
 CGAGGCCGAAAGGCTTCCCTAGAGGAGTGCAGTCACTGCTGAAACGACGCTGCTCCTCTACGGCA  
 CGAACCCACTCAGCCGCCTCAAACCTGGATAACGGGAAGCTTACAGGACTCCTGGCACAGCGGACGTTTGT  
 GATGCTACCCTGTGGCGGGTGGGGTTCGATACTGACACCATCTGGAACGAGCTGCATTCTCCAATGCA  
 GCCCGCTGGGCTGCGGGCAGTGTACCCGACCTTGCCTTCAAAGTAGCTTCCCGAGAGCTGAAGAATGGCT  
 TTGCTGTGGTGGACCCCGGGACACCATGCAGATCATTCTACAGCCATGGGCTTCTGCTTCTTCAACTC  
 CGTGGCCATCGCTGCCGACAGCTACAGCAACACGGCAAAGCCAGCAAGATCCTCATTGTTGACTGGGAT  
 GTTACCATGGCAACGGCACACAGCAGACTTCTACCAGACCCAGTGTGCTCTACATTTCCCTTCATC  
 GCCATGACGACGGCAACTTCTCCAGGCAGTGGGGCCGTGGATGAGGTGGAACTGGCAGTGGCGAGGG  
 CTTCAATGTCAAGTGGCTTGGGCTGGGGCTGGATCCACCCATGGGGATCCTGAGTACCTGGCTGCT  
 TTCAGGATAGTGGTGTGCCATTGCCGAGAGTTTGTCCAGACCTGGTCTGGTGTCTGCTGGGTTTGT  
 ATGCTGCGGAGGGTACCCAGCCCGCTGGGTGGCTACCATGTTTCTGCCAAATGTTTTGGGTACATGAC  
 GCAGCAGTTGATGAACCTGGCAGGAGGCGCGTGGTGTGGCCTTAGAGGGTGGACATGACCTCACGGCC  
 ATCTGTGATGCCTCGGAGCCTGTGTAGTGTCTTCTGGGCAACAAGGTGGACCCCTTTCAGAAGAAA  
 GCTGGAACAGAAACCCAACTCAGTGCATCCGCTCGTGGAACTGTGGTGGGTCACAGGAAATA  
 CTGGGGTGCATGCAGCGCTTGGCTCCTGTCCAGACTCCTGGCTACCCAGAGTCCCGGAGCTGATGCA  
 GAAGTGAAGCCGTGACCGGCTGGCATCCCTTCTGTGGGCATCCTGGCTGAAGACAGGCCCTCGGAGC  
 GGCTGGTGAAGAGGAAGAACCATGAACCT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

<b>ACCN:</b>	NM_001204277
<b>Insert Size:</b>	2835 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001204277.1</a></u> , <u><a href="#">NP_001191206.1</a></u>
<b>RefSeq Size:</b>	4258 bp
<b>RefSeq ORF:</b>	2835 bp
<b>Locus ID:</b>	56233
<b>UniProt ID:</b>	<u><a href="#">Q8C2B3</a></u>
<b>Cytogenetics:</b>	15 F1
<b>Gene Summary:</b>	<p>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 by repressing transcription of myocyte enhancer factors such as MEF2A, MEF2B and MEF2C. During muscle differentiation, it shuttles into the cytoplasm, allowing the expression of myocyte enhancer factors. Positively regulates the transcriptional repressor activity of FOXP3 (By similarity). Serves as a corepressor of RARA, causing its deacetylation and inhibition of RARE DNA element binding (By similarity). In association with RARA, plays a role in the repression of microRNA-10a and thereby in the inflammatory response (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and has multiple differences in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (3) is shorter and has a distinct N-terminus, compared to isoform 1.</p>