

## Product datasheet for **MC229170**

### **Hdac7 (NM\_001204278) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Hdac7 (NM_001204278) 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:** >MC229170 representing NM\_001204278  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGACCTGCGGGTGGGCCAGCGCCACGGTGGAGCCCCACCAGACCTGCGCTGCTGACCCGCAAC  
 ACCCCCAACGCCTGCACCGCCATCTTCTTGGCAGGCTTACACCAGCAACAGCGCTCAGCCGAGCCAT  
 GAGGCTCTCCATGGACCCACCAATGCCGGAGCTGCAGGGGGACAGCAGGAGCAAGAATTCGGCAACTT  
 CTCAATAAAGACAAGAGCAAGCGAAGTGCCGTAGCCAGCAGTGTGGTCAAGCAGAAGCTGGCTGAAGTGA  
 TCCTGAAGAAACAGCAGGCAGCCCTTGAGAGAACAGTCCATCCCAGCAGCCCCAGTATCCCTACAGAAC  
 TCTTGAGCCCTGGACACAGAGGGTGTGCCCGCTCCGTGCTTAGCAGCTTCTGCCTCTGTGCCAGC  
 CTGCCACTGAACCCCGGAACACTTCCCTTGCCTAAAACAGTGTCTGAACCCAACTGAAGTTGCGCT  
 ACAAACCAAGAAATCCCTGGAGAGACGAAGAATCCCTGCTCAGGAAGGAGAGTGCCCGCCAGCCT  
 TCGGAGGAGGCCGCGAGACCCCTGGAGATTCCTCCCCAGTAGTAGCAGCACACCCCGCTCAGGGTGC  
 AGCTCCCCAATGACAGCGAGCATGGCCCTAACCTGCCCTAGGCTCAGAGGCTGATGGTACCAGCAGGA  
 CCCATTCAACTTTAGGCCCTCGGGTCTGTACTGGGAAACCCCATGCTCCCCTCTTCTGCACACCGG  
 TCTGGAGCCAGAGGCTGGGGCACCTTACCCTCTCGCCTGCAACCCATTCTCTGCTGGACCCCTCAGTC  
 TCTCATGCCCCACTGTGGACTGTGCCTGGCCTTGGGCCCTTGCCCTTCCACTTGGCCAGCCCTTACTGA  
 CCACCGAGCGGCTCTCTGGGTGAGGCTCCATCGACCACTTAACCGACCCGCTCAGAGCCCTGCCCC  
 CAGCGCCACAGCCTCCCCTCTGCTGGCCCCCTGCAGCCCCGCCAGGATCGGCTCAAACCTCACGTCCAG  
 CTGATCAAGCCAGCCATCTCCCCTCCCCAGAGGCTGCCAAGCCAGTGAAGAAGCCCGACTGCGACAGA  
 TACCCTCGGCTGAGGACCTAGAGACAGATGGTGGGGAGTGGACCTATGGCGAATGATGGCTGGAA  
 TAGGGAGTCAGGCCGTGGGCCTCCTGAGGGCAGAGGCTCCATTTCTGTCAGCAGCATCAACAGGTGCCA  
 CCCTGGGAGCAGCAGCATCTAGCCGGCGGCTCTCTCAGGGAAGCCCGGGGACTCCGTGCTGATACCTC  
 TGGCCAGGTTGGACACCGGCCCTGTCCAGAACCAGTCTTCCCAGCAGCACCTGTCTCCCTGTGAG  
 CCCAGAGCCACCTGTCAGACCAAGTCTCAACAGCTCAGAGACACCTGCTACAGGGCTGGTCTATGAC  
 TCGGTGATGCTGAAACACCAATGTTCTGTGGAGACAACAGCAAGCATCCCGAGCATGCAGGCCGATCC  
 AGAGCATCTGGTCCGGCTGCAGGAACGGGGTCTCCGACCCAGTGTGAGTGTCTCCGAGCCGAAAGGC  
 TTCCCTAGAGGAGCTGCAGTCACTCTGAACGGCACGTGCTCTCTACGGCACGAACCCACTCAGC  
 CGCCTCAAACCTGGATAACGGGAAGTTACAGGACTCCTGGCACAGCGGACGTTTGTGATGCTACCCTGTG  
 GCGGGGTTGGGGTCGATACTGACACCATCTGGAACGAGCTGCATTCTCCAATGCAGCCCGCTGGGCTGC  
 GGGCAGTGTACCCGACCTTGCCCTCAAAGTAGCTTCCCAGAGGCTGAAGAATGGCTTTGCTGTGGTGCGA  
 CCCCCGGGACACCATGCAGATCATTCTACAGCCATGGGCTTCTGCTTCTTCAACTCCGTGGCCATCGCCT  
 GCCGACAGCTACAGCAACACGGCAAAGCCAGCAAGATCCTCATTGTTGACTGGGATGTTACCATGGCAA  
 CGGCACACAGCAGACTTCTACCAGGACCCAGTGTGCTTACATTTCCCTTTCATCGCCATGACGACGGC  
 AACTTCTTCCAGGACAGTGGGGCCGTGGATGAGGTGGAACTGGCAGTGGCGAGGGCTTCAATGTCAACG  
 TGGCTTGGGCTGGGGCTTGGATCCACCATGGGGATCCTGAGTACCTGGCTGCTTTCAGGATAGTGGT  
 GATGCCATTGCCCGAGAGTTTGTCTCAGACCTGGTCTGGTGTCTGCTGGGTTTGTGCTGCGGAGGGT  
 CACCCAGCCCGCTGGGTGGCTACCATGTTTCTGCCAAATGTTTTGGGTACATGACGCAGCAGTTGATGA  
 ACTTGGCAGGAGGCGCCGTGGTGTGGCCTTAGAGGGTGGACATGACCTCACGGCCATCTGTGATGCCCTC  
 GGAGGCCCTGTGTAGTGTCTTCTGGGCAACAAGTGGACCCCTTTCAGAAGAAAGCTGGAAACAGAAA  
 CCCAACCTCAGTGCCATCCGCTCGTGGAAAGCTGTGGTCAAGGTGCACAGGAAACTGCGGGCTGCATGC  
 AGCGCTTGGCCTCTGTCCAGACTCCTGGCTACCCAGAGTCCCGGGAGCTGATGCAGAAGTGAAGCCGT  
 GACCGCGTGGCATCCCTTCTGTGGGCATCCTGGCTGAAGACAGGCCCTCGGAGCGGCTGGTGAAGAG  
 GAAGAACCCATGAACCT**CTAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

<b>ACCN:</b>	NM_001204278
<b>Insert Size:</b>	2751 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_001204278.1</a></u> , <u><a href="#">NP_001191207.1</a></u>
<b>RefSeq Size:</b>	4228 bp
<b>RefSeq ORF:</b>	2751 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 (5) lacks an exon in the coding region but maintains the reading frame, compared to variant 1. The encoded isoform (5) is shorter than isoform 1.</p> <p>Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>