

## Product datasheet for **MC229201**

### Hdac7 (NM\_001204276) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hdac7 (NM_001204276) 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:** >MC229201 representing NM\_001204276  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACCTGCGGGTGGGCCAGCGCCACGGTGGAGCCCCACCAGACCTGCGCTGCTGACCTGCAAC  
 ACCCCAAACGCTGCACCGCCATCTTCTTGGCAGGCTTACACCAGCAACAGCGCTCAGCCGAGCCAT  
 GAGGCTCTCCATGGACCCACCAATGCCGGAGCTGCAGGGGGACAGCAGGAGCAAGAACTTCGGCAACTT  
 CTCAATAAAGACAAGAGCAAGCGAAGTGCCGTAGCCAGCAGTGTGGTCAAGCAGAAGCTGGCTGAAGTGA  
 TCCTGAAGAAACAGCAGGCAGCCCTTGAGAGAACAGTCCATCCCAGCAGCCCCAGTATCCCTACAGAAC  
 TCTTGAGCCCTTGACACAGAGGGTGTGCCCGCTCCGTGCTTAGCAGCTTCTGCCTCTGTTCCACGC  
 CTGCCACTGAACCCCGGAACACTTCCCTTGCCTAAAACAGTGTCTGAACCCAACTGAAGTTGCGCT  
 ACAAACCAAGAAATCCCTGGAGAGACGAAGAATCCCCTGCTCAGGAAGGAGAGTGCCCGCCAGCCT  
 TCGGAGGAGGCCGCGAGACCCCTTGAGATTCTCCCCAGTAGTAGCAGCACACCCGCGTCAGGGTGC  
 AGCTCCCCTAATGACAGCGAGCATGGCCCTAACCTGCCCTAGGCTCAGAGGCGCTCTTGGGCCAGCGGC  
 TGGCGCTGCAGGAGACTTCTCTGCCCCGTTTCGCTTGGCCGACAGTGTCTTGTGCCCGCAATCACT  
 GGGGCTGCCTGCCCTGCCAGGGCTGATGGTGACCGCAGGACCCATTCACTTTAGGCCCTCGGGTCTCT  
 GTACTGGGAACCCCATGCTCCCTCTTCTGCACCACGGTCTGGAGCCAGAGGCTGGGGGCACCTTAC  
 CCTCTCGCTGCAACCCATTCTCTGCTGGACCCCTCAGTCTCTCATGCCCACTGTGGACTGTGCCTGG  
 CCTTGGCCCTTGCCCTTCCACTTGGCCAGCCCTTACTGACCACCGAGCGGCTCTCTGGGTGAGCCTC  
 CATCGACCACTTAACCGGACCCGCTCAGAGCCCTGCCCCAGCGCCACAGCCTCCCTCTGTGGCC  
 CCCTGCAGCCCCGCCAGGATCGGCTCAAACCTCACGTCCAGTGATCAAGAGGCTGCCAAGCCCTGA  
 GAAGCCCGACTGCGACAGATACCCTCGGCTGAGGACCTAGAGACAGATGGTGGGGAGTGGGACCTATG  
 GCGAATGATGGCCTGGAACATAGGGAGTCAAGCCGTTGGCCCTCCTGAGGGCAGAGGCTCCATTTCTCTGC  
 AGCAGCATCAACAGGTGCCACCCTGGGAGCAGCAGCATCTAGCCGGGCGGCTCTCTCAGGGAAGCCCGG  
 GGACTCCGTGCTGATACCTCTGGCCAGGTTGGACACCGGCCCTGTCCAGAACCAGTCTTCCCCAGCA  
 GCACCTGTCTCCCTGCTGAGCCAGAGCCACCTGTGAGCCCAAGTCTCAACAGCTCAGAGACACCTG  
 CTACAGGGCTGGTCTATGACTCGGTGATGCTGAAACACCAATGTTCTGTGGAGACAACAGCAAGCATCC  
 CGAGCATGCAGGCCGATCCAGAGCATCTGGTCCCGGCTGCAGGAACGGGGTCTCCGAGCCAGTGTGAG  
 TGTCTCCGAGGCCGAAAGGCTTCCCTAGAGGAGTGCAGTCCACTCTGAACGGCACGTGCTCTCT  
 ACGGCAGGAACCCACTCAGCCGCTCAAACCTGGATAACGGGAAGCTTACAGGACTCCTGGCAGCGGAC  
 GTTTGTGATGCTACCCTGTGGCGGGGTTGGGGTGCATACTGACACCATCTGGAACGAGCTGCATTCTCC  
 AATGCAGCCCGCTGGGCTGCGGGCAGTGTACCGACCTTGCCCTCAAAGTAGCTTCCCGAGAGCTGAAGA  
 ATGGCTTTGCTGTGGTGCACCCCGGGACACCATGCAGATATTCTACAGCCATGGGCTTCTGCTTCTT  
 CAACTCCGTGGCCATCGCTGCCGACAGCTACAGCAACACGGCAAAGCCAGCAAGATCCTCATTGTTGAC  
 TGGGATGTTACCATGGCAACGGCACACAGCAGACTTCTACCAGGACCCAGTGTGCTTACATTTCCC  
 TTCATCGCCATGACGACGGCAACTTCTCCAGGACAGTGGGGCCGTGGATGAGGTGGAACTGGCAGTGG  
 CGAGGGCTTCAATGTCAACGTGGCTTGGGCTGGGGCTTGATCCACCCATGGGGGATCCTGAGTACCTG  
 GCTGCTTTCAGGATAGTGGTGTGCCCCATTGCCGAGAGTTTGGTCCAGACCTGGTCTGTGCTGCTG  
 GGTTTGTGCTGCGGAGGGTCAACCAGCCCGCTGGGTGGCTACCATGTTTCTGCCAAATGTTTTGGGTA  
 CATGACGAGCAGTGTGACTTGGCAGGAGGCGCCGTGGTGTGGCCTTAGAGGGTGGACATGACCTC  
 ACGGCCATCTGTGATGCCTCGGAGGCTGTGTAGCTGCTTCTGGGCAACAAGTGGACCCCTTTCAG  
 AAGAAAGTGGAAACAGAAACCAACCTCAGTCCATCCGCTCGCTGGAAGCTGTGGTCAAGGTGCACAG  
 GAAATACTGGGGTGCATGCAGCGCTTGGCCTCTGTCCAGACTCCTGGTACCCAGAGTCCCGGGAGCT  
 GATGCAGAAGTGAAGCCGTGACCGGCTGGCATCCCTTCTGTGGGCATCCTGGCTGAAGACAGGCCCT  
 CGGAGCGGCTGGTGAAGAGGAAGAACCATGAACCTC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

<b>ACCN:</b>	NM_001204276
<b>Insert Size:</b>	2841 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>NM_001204276.1, NP_001191205.1</u>
<b>RefSeq Size:</b>	4387 bp
<b>RefSeq ORF:</b>	2841 bp
<b>Locus ID:</b>	56233
<b>UniProt ID:</b>	<u>Q8C2B3</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 (2) differs in the 5' UTR and uses an alternate in-frame splice site in the coding region, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. 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>