

Product datasheet for **MC229046**

Hdac7 (NM_001204281) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hdac7 (NM_001204281) 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: >MC229046 representing NM_001204281
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCTGCGGGTGGGCCAGCGCCACGGTGGAGCCCCACCAGGCCTGCGCTGCTGACCCGCAAC
 ACCCCCAACGCTGCACCGCCATCTTCTTGGCAGGCTTACACCAGCAACAGCGCTCAGCCGAGCCAT
 GAGGCTCTCCATGGACCCACCAATGCCGGAGCTGCAGGGGGACAGCAGGAGCAAGAACTTCGGCAACTT
 CTCAATAAAGACAAGAGCAAGCGAAGTGCCGTAGCCAGCAGTGTGGTCAAGCAGAAGCTGGCTGAAGTGA
 TCCTGAAGAAACAGCAGGCAGCCCTTGAGAGAAGTCCATCCCAGCAGCCCCAGTATCCCTACAGAAC
 TCTTGAGCCCTGGACACAGAGGGTGTGCCCGCTCCGTGCTTAGCAGCTTCTGCCTCTGTGCCAGC
 CTGCCACTGAACCCCCGAACACTTCCCTTGCCTAAAACAGTGTCTGAACCCAACTGAAGTTGCGCT
 ACAAAACCAAGAAATCCCTGGAGAGACGAAGAATCCCTGCTCAGGAAGGAGAGTGCCCGCCAGCCT
 TCGGAGGAGGCCGCGAGACCCTTGGAGATTCTCCCCAGTAGTAGCAGCACACCCGCGTCAGGGTGC
 AGCTCCCCAATGACAGCGAGCATGGCCCTAACCTGCCCTAGGCTCAGAGGCTGATGGTACCCGACGGA
 CCCATTCAACTTAGGCCCTCGGGTCTGTACTGGGAAACCCCATGCTCCCCTCTTCTGCACACCGG
 TCTGGAGCCAGAGGCTGGGGCACCTTACCCTCTCGCCTGCAACCCATTCTCTGCTGGACCCCTCAGTC
 TCTCATGCCCCACTGTGGACTGTGCCTGGCCTTGGGCCCTTGCCCTTCCACTTGGCCAGCCCTTACTGA
 CCACCGAGCGGCTCTCTGGGTGAGGCTCCATCGACCACTTAAACCGACCCGCTCAGAGCCCTGCCCC
 CAGCGCCACAGCCTCCCCTCTGCTGGCCCCCTGCAGCCCCGCCAGGATCGGCTCAAACCTCACGTCCAG
 CTGATCAAGGTGCCACCCTGGGAGCAGCAGCATAGCCGGGCGGCTCTCTCAGGGAAGCCCCGGGGACT
 CGGTGCTGATACCTCTGGCCCAGTTGGACACCGCCCTGTCCAGAACCAGTCTTCCCAGCAGCACC
 TGTCTCCCTGCTGAGCCAGAGCCACCTGTGACACCAAGTCCCTCAACAGCTCAGAGACACCTGCTACA
 GGGCTGGTCTATGACTCGGTGATGCTGAAACACCAATGTTCTGTGGAGACAACGAAGCATCCCGAGC
 ATGCAGGCCGATCCAGAGCATCTGGTCCCGGCTGCAGGAACGGGGTCTCCGCAGCCAGTGTGAGTGTCT
 CCGAGGGCCGAAAGGCTTCCCTAGAGGAGCTGCAGTCAGTCCACTCTGAACGGCACGTGCTCCTCTACGGC
 ACGAACCCACTCAGCCGCTCAAACCTGGATAACGGGAAGCTTACAGGACTCCTGGCACAGCGGACGTTT
 TGATGCTACCCTGTGGCGGGTGGGGTGCATACTGACACCATCTGGAACGAGTGCATTCTCCAATGC
 AGCCCGCTGGGTGCGGGCAGTGTACCCAGCTTGCCTTCAAAGTAGCTTCCCGAGAGCTGAAGAATGGC
 TTTGCTGTGGTGCAGCCCGGGACACCATGCAGATCATTCTACAGCCATGGGCTTCTGCTTCTCAACT
 CCGTGGCCATCGCTGCCGACAGCTACAGCAACACGGCAAAGCCAGCAAGATCCTCATTGTTGACTGGGA
 TGTTACCATGGCAACGGCACACAGCAGACTTCTACCAGGACCCAGTGTGCTCTACATTTCCCTTCAT
 CGCCATGACGACGGCAACTTCTTCCCAGGAGTGGGGCCGTGGATGAGGTGGGAAGTGGCAGTGGCGAGG
 GCTTCAATGTCAACGTGGCTTGGGTGGGGCTTGGATCCACCCATGGGGATCCTGAGTACCTGGCTGC
 TTTCAGGATAGTGGTGTGCCATTGCCGAGAGTTTGTCCAGACCTGGTCTGGTGTCTGCTGGGTTT
 GATGCTGCGGAGGGTACCCAGCCCCGCTGGGTGGCTACCATGTTTCTGCCAAATGTTTTGGGTACATGA
 CGCAGCAGTTGATGAACCTGGCAGGAGGCGCGTGGTGTGGCCTTAGAGGGTGGACATGACCTCACGGC
 CATCTGTGATGCCTCGGAGGCTGTGTAGCTGCTTCTGGGCAACAAGTGGACCCCTTTCAGAAGAA
 AGCTGGAAACAGAAACCAACCTCAGTGCCATCCGCTCGCTGGAAGCTGTGGTCAAGGTCACAGGAAAT
 ACTGGGGTGCATGCAGCGCTTGGCCTCTGTCCAGACTCCTGGTACCCAGAGTGCCGGGAGCTGATGC
 AGAAGTGAAGCCGTGACCGCGCTGGCATCCCTTCTGTGGGCATCCTGGCTGAAGACAGCCCTCGGAG
 CGGCTGGTGAAGAGGAAGAACCATGAACCT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001204281
Insert Size: 2556 bp

OTI Disclaimer:	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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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>NM_001204281.1, NP_001191210.1</u>
RefSeq Size:	3791 bp
RefSeq ORF:	2556 bp
Locus ID:	56233
Cytogenetics:	15 F1
Gene Summary:	<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 (8) differs in the 5' UTR and lacks two exons in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (8) 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>