

Product datasheet for RC229831

HDAC8 (NM_001166418) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC8 (NM_001166418) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HDAC8
Synonyms:	CDA07; CDLS5; HD8; HDACL1; KDAC8; MRXS6; RPD3; WTS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229831 representing NM_001166418 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGCCGGAGGAACCGCGGACAGTGGCAGTCGCTGGTCCCGTTTATATCTATAGTCCCAGT
ATGTCAGTATGTGTGACTCCCTGGCCAAGATCCCCAAACGGGCCAGTATGGTGCATTCTTTGATTGAAGC
ATATGCACTGCATAAGCAGATGAGAGATGAAGCATCTGGTTTTTGTATCTCAATGATGCTGCTCCTGGGA
ATATTACGATTGCGACGAAATTTGAGCGTATTCTCTACGTGGATTTGGATCTGCACCATGGAGATGGTG
TAGAAGACGCATTCAGTTTCACCTCCAAAGTCATGACCGTGTCCCTGCACAAATCTCCCAGGATTTTT
CCCAGGAACAGGTGACGTGTCTGATGTTGGCCTAGGGAAGGGACGGTACTACAGTGTAAATGTGCCATT
CAGGATGGCATAAAGATGAAAAATATTACCAGATCTGTGAAAGTGTACTAAAGGAAGTATACCAAGCCT
TTAATCCCAAAGCAGTGGTCTTACAGCTGGGAGCTGACACAATAGCTGGGGATCCCATGTGCTCCTTTAA
CATGACTCCAGTGGGAATTGGCAAGTGTCTTAAGTACATCCTTCAATGGCAGTTGGCAACACTCATTTTTG
GGAGGAGGAGGCTATAACCTTGCCAACACGGCTCGATGCTGGACATACTTGACCGGGTCTCCTAGGGA
AAACACTATCCTCTGAGATCCCAGATCATGAGTTTTTACAGCATATGGTCTGATTATGTGCTGGAAAT
CACGCCAAGCTGCCGGCCAGACCGCAATGAGCCCCACCGAATCCAACAAATCTCAACTACATCAAAGGG
AATCTGAAGCATGTGGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC229831 representing NM_001166418
Red=Cloning site Green=Tags(s)

MEEPEEPADSGQSLVPVYIYSPEYVSMCDLAKIPKRASMVHSLIEAYALHKQMRDEASGFCYLNDVAVLG
 ILRLRRKFERILYVDLDLHHGDGVEDAFSFTSKVMTVSLHKFSPGFFPGTGDVSDVGLGKGRYYSVNVPI
 QDGIQDEKYYQICESVLKEVYQAFNPKAVVQLGADTIAGDPMCSFNMTVPVIGKCLKYILQWQLATLIL
 GGGGYNLANTARCWTYLTGVILGKTLSEIPDHEFFTAYGPDYVLEITPSCRPRDRNEPHRIQQILNYIKG
 NLKHVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8049_d10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001166418

ORF Size: 858 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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: [NM_001166418.2](#)

RefSeq ORF: 861 bp

Locus ID: 55869

UniProt ID: [Q9BY41](#)

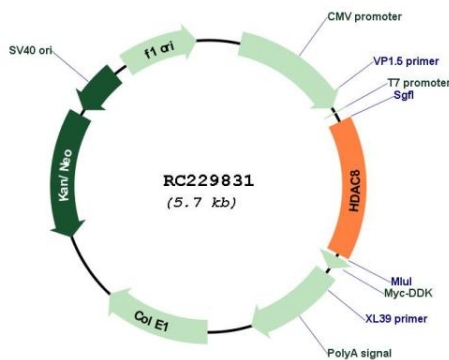
Cytogenetics: Xq13.1

Protein Families: Druggable Genome, Transcription Factors

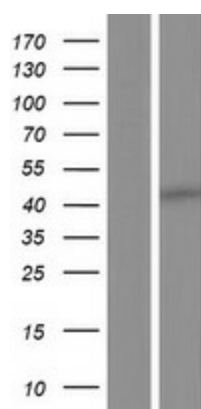
MW: 32.4 kDa

Gene Summary: Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to class I of the histone deacetylase family. It catalyzes the deacetylation of lysine residues in the histone N-terminal tails and represses transcription in large multiprotein complexes with transcriptional co-repressors. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RC229831



Western blot validation of overexpression lysate (Cat# [LY432831]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229831 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).