

Product datasheet for **RR205688**

Hdac8 (NM_001126373) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hdac8 (NM_001126373) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hdac8
Synonyms:	HD8; RGD1562895
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR205688 representing NM_001126373 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGATACCAGAGGAACCCGCCAATAGTGGCATTGCTACCCCGGTTTATATTTACAGTCCCAGT
ATGTCAGCATCTGCGATTCCCTTGTGAAGTCCCAACGGGCCAGTATGGTTCCTCTGATCGAAGC
ATATGCCCTGCATAAACAAATGAGGATAGTGAAGCCAAAGTGGCCTCCATGGAGGAGATGCCACCTTC
CACACTGATGCCTATCTCAACATCTCCAGAAGTCCAGCAAGAAGGGGATGAGGACCATCCAGACTCCA
TAGAATATGGACTAGGTTATGACTGCCAGCCACAGAAGGGATATTTGACTATGCAGCAGCTATAGGAGG
AGGTACAATCACAGCTGCCAGTGCCTGATTGACGGGAAGTGTAAAGTAGCCATTAAGTGGTCTGGAGGG
TGGCATCATGCAAAGAAAGATGAAGCATCTGGTTTCTGTTATCTCAATGATGCTGTCTAGGAATATTAC
GATTGCGACGAAATTTGACCGGATTCTCTATGTGGACTTGGATCTACACCATGGAGATGGTGTAGAAGA
TGCTTTCAGTTTTACATCTAAAGTTATGACTGTGTCCTGCACAAGTTCTCTCCAGGATTTTTCCAGGA
ACAGGTGACATGTCTGATGTTGGCCTGGGAAAGGACGGTACTACAGTGTCAATGTGCCATTCAGGATC
GCATCCAGGATGAGAAGTACTATCACATCTGTGAAAGTGTACTAAAGGAAGTATACCAGCCCTTCAATCC
GAAGGCAGTGGTTCTACAGCTGGGAGCAGATACCATGCTGGAGATCCAATGTGCTCCTTTAACATGACA
CCAGTGGGAATTGGCAAGTGTCTGAAGTATGCTCCTTCAGTGGCAGTTGGCAACTCTGATTTTAGGAGGAG
GAGGCTACAACCTTGCCAACACGGCTCGTTGCTGGACATACTTGACCGGGGTATCCTAGGGAAAACACT
ATCCTCTGAGATCCCAGATCATGAGTTTTTACAGCATAATGGTCTGATTATGTGCTGGAATCACGCCA
AGCTGCCGGCCAGACCGCAATGAGCCCCATCGAATCCAGCAAATCCTCAACTACATCAAAGGGAATCTGA
AGCATGTGGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR205688 representing NM_001126373
 Red=Cloning site Green=Tags(s)

MEIPEEPANSGHSLPPVYIYSPEYVSICDSLKVPKRASMVHSLIEAYALHKQMRIVKPKVASMEEMATF
 HTDAYLQHLQKVSQEGDEDHPDSIEYGLGYDCPATEGIFDYAAAIGGGTITAAQCLIDGKCKVAINWSSG
 WHHAKKDEASGFCYLNDAVLGILRLRRKFDRILYVDLDLHHGDGVEDAFSFTSKVMTVSLHKFSPGFFPG
 TGDMSDVGLGKGRYYSVNVPIQDGIQDEKYYHICESVLKEYVQAFNPKAVVLQLGADTIAGDPMCSFNMT
 PVGIGKCLKYVLQWQLATLILGGGYNLANTARCWTYLTGVILGKTLSSVIPDHEFFTAYGPDYVLEITP
 SCRPRNPHRIQQILNLIKGNLKHVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

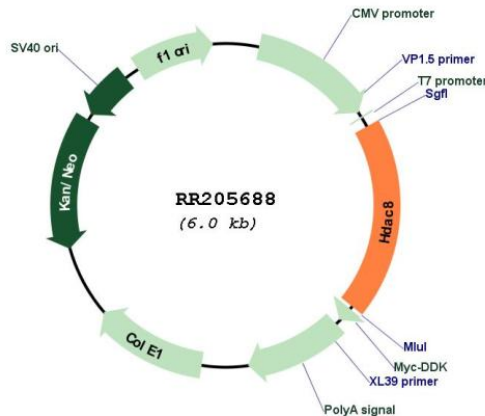
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001126373

ORF Size:	1131 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:	<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:	NM_001126373.2 , NP_001119845.2
RefSeq Size:	2002 bp
RefSeq ORF:	1134 bp
Locus ID:	363481
UniProt ID:	B1WC68
Cytogenetics:	Xq22
MW:	41.8 kDa
Gene Summary:	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. Also involved in the deacetylation of cohesin complex protein SMC3 regulating release of cohesin complexes from chromatin. May play a role in smooth muscle cell contractility (By similarity).[UniProtKB/Swiss-Prot Function]