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Product datasheet for RC229584

HDAC8 (NM_001166420) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC8 (NM_001166420) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HDAC8
Synonyms:	CDA07; CDLS5; HD8; HDACL1; KDAC8; MRXS6; RPD3; WTS
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC229584 representing NM_001166420 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAGGAGCCGGAGGAACCGGCGGACAGTGGGCAGTCGCTGGTCCCGGTTTATATCTATAGTCCCGAGT ATGTCAGTATGTGTGACTCCCTGGCCAAGATCCCCAAACGGGCCAGTATGGTGCATTCTTTGATTGAAGC ATATGCACTGCATAAGCAGATGAGGATAGTTAAGCCTAAAGTGGCCTCCATGGAGGAGATGGCCACCTTC CACACTGATGCTTATCTGCAGCATCTCCAGAAGGTCAGCCAAGAGGGCGATGATGATCATCCGGACTCCA TAGAATATGGGCTAGGTTATGACTGCCCAGCCACTGAAGGGATATTTGACTATGCAGCAGCTATAGGAGG GGCTACGATCACAGCTGCCCAATGCCTGATTGACGGAATGTGCAAAGTAGCAATTAACTGGTCTGGAGGG TGGCATCATGCAAAGAAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC229584 representing NM_001166420 Red=Cloning site Green=Tags(s) MEEPEEPADSGQSLVPVYIYSPEYVSMCDSLAKIPKRASMVHSLIEAYALHKQMRIVKPKVASMEEMATF HTDAYLQHLQKVSQEGDDDHPDSIEYGLGYDCPATEGIFDYAAAIGGATITAAQCLIDGMCKVAINWSGG WHHAKK TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

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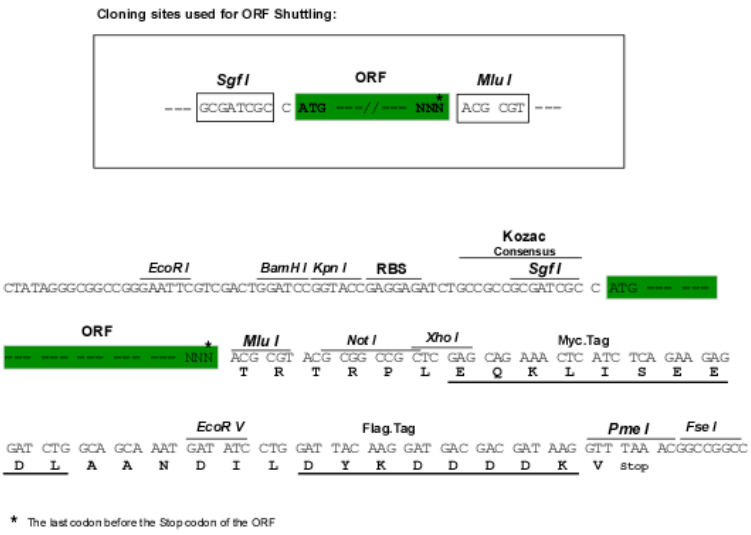
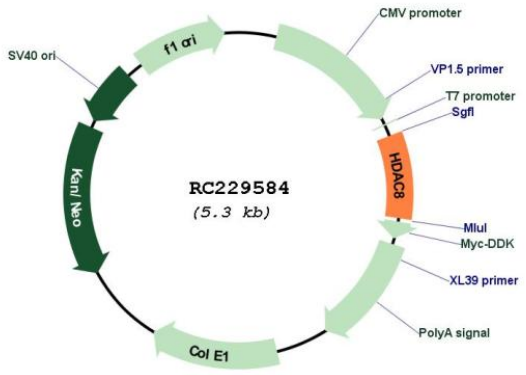
Cloning Scheme:



Plasmid Map:



ACCN:	NM_001166420
ORF Size:	438 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_001166420.1, NP_001159892.1
RefSeq ORF:	441 bp
Locus ID:	55869
UniProt ID:	Q9BY41
Cytogenetics:	Xq13.1
Protein Families:	Druggable Genome, Transcription Factors
MW:	16.5 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]