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Product datasheet for MG205884

Hdac8 (NM_027382) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hdac8 (NM_027382) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hdac8
Synonyms:	2610007D20Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

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>MG205884 representing NM_027382
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGATGCCAGAGGAACCCGCCAACAGTGGGCATTCACTACCCCCGGTTTATATTTACAGTCCCGAGT
ATGTCAGCATCTGCGACTCCCTTGTGAAGGTCCCCAAACGGGCCAGTATGGTCCACTCTCTGATCGAAGC
CTATGCCCTGCATAAACAAATGAGGATAGTGAAGCCCAAAGTGGCCTCCATGGAGGAGATGGCCACCTTC
CACACTGATGCCTATCTGCAACATCTCCAGAAAGTCAGCCAAGAAGGTGATGAGGACCATCCAGACTCCA
TAGAATATGGACTAGGTTATGACTGCCCAGCCACAGAAGGGATATTTGACTATGCAGCAGCTATAGGAGG
AGGTACAATCACAGCTGCCCAGTGCCTGATTGACGGGAAGTGTAAAGTAGCCATCAACTGGTCTGGAGGG
TGGCATCATGCAAAGAAAGATGAAGCATCTGGTTTCTGTTATCTCAATGATGCTGTCCTGGGAATATTAC
GATTGCGACGGAAATTTGACCGTATTCTCTACGTGGATTTGGATCTACACCATGGAGATGGTGTAGAAGA
TGCCTTCAGTTTTACATCGAAGGTTATGACTGTGTCCCTGCACAAGTTCTCCCCAGGATTTTTCCCAGGA
ACAGGTGACATGTCTGATGTTGGCCTGGGGAAAGGACGGTACTACAGTGTCAATGTGCCCATTCAGGATG
GCATCCAGGATGAGAAGTACTATCACATCTGTGAAAGTGTACTAAAAGAAGTGTACCAGGCCTTCAATCC
GAAGGCAGTGGTTTTACAGCTGGGAGCAGATACTATTGCCGGAGATCCAATGTGTTCCTTTAATATGACA
CCAGTGGGGATCGGCAAGTGTCTGAAGTATGTCCTACAGTGGCAGCTGGCAACTCTGATTTTAGGAGGAG
GAGGCTATAACCTTGCCAACACGGCTCGTTGCTGGACATACTTGACCGGGGTCATCCTAGGGAAAACGCT
ATCCTCTGAGATCCCAGATCATGAGTTTTTCACAGCATATGGTCCTGATTATGTGCTGGAAATCACGCCA
AGCTGCCGGCCAGACCGCAATGAGCCCCACCGAATCCAGCAAATCCTCAACTACATCAAAGGGAATCTGA
AGCATGTGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag -  GTTTAA
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Protein Sequence:

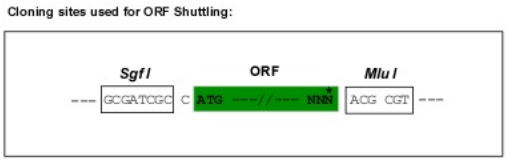
>MG205884 representing NM_027382
Red=Cloning site Green=Tags(s)

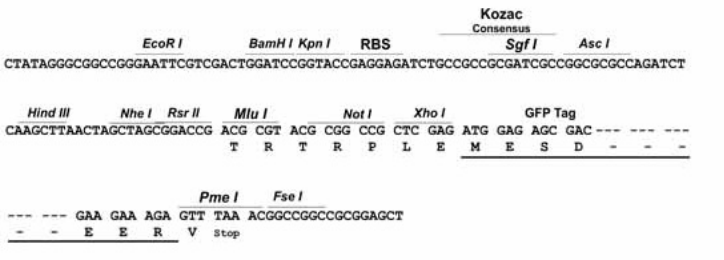
MEMPEEPANSGHSLPPVYIYSPEYVSICDSLVKVPKRASMVHSLIEAYALHKQMRIVKPKVASMEEMATF
HTDAYLQHLQKVSQEGDEDHPDSIEYGLGYDCPATEGIFDYAAAIGGGTITAAQCLIDGKCKVAINWSGG
WHHAKKDEASGFCYLNDAVLGILRLRRKFDRILYVDLDLHHGDGVEDAFSFTSKVMTVSLHKFSPGFFPG
TGDMSDVGLGKGRYYSVNVPIQDGIQDEKYYHICESVLKEVYQAFNPKAVVLQLGADTIAGDPMCSFNMT
PVGIGKCLKYVLQWQLATLILGGGGYNLANTARCWTYLTGVILGKTLSSEIPDHEFFTAYGPDYVLEITP
SCRPDRNEPHRIQQILNYIKGNLKHVV

TRTRPLE - GFP Tag - V

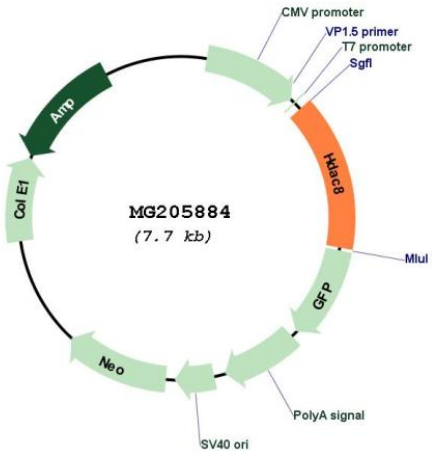
Restriction Sites: SgfI-MluI

Cloning Scheme:





Plasmid Map:



ACCN: NM_027382

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ORF Size:	1131 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_027382.4
RefSeq Size:	1724 bp
RefSeq ORF:	1134 bp
Locus ID:	70315
UniProt ID:	Q8VH37
Cytogenetics:	X D
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]

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