

## Product datasheet for **RG229831**

### HDAC8 (NM\_001166418) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC8 (NM_001166418) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HDAC8
Synonyms:	CDA07; CDLS5; HD8; HDACL1; KDAC8; MRXS6; RPD3; WTS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229831 representing NM_001166418 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGAGGAGCCGGAGGAACCGCGGACAGTGGCAGTCGCTGGTCCCGTTTATATCTATAGTCCCAGT  
ATGTCAGTATGTGTGACTCCCTGGCCAAGATCCCCAAACGGGCCAGTATGGTGCATTCTTTGATTGAAGC  
ATATGCACTGCATAAGCAGATGAGAGATGAAGCATCTGGTTTTTGTATCTCAATGATGCTGCTCCTGGGA  
ATATTACGATTGCGACGAAAATTTGAGCGTATTCTCTACGTGGATTTGGATCTGCACCATGGAGATGGTG  
TAGAAGACGCATTCAGTTTCACCTCCAAAGTCATGACCGTGTCCCTGCACAAATTCTCCCAGGATTTTT  
CCCAGGAACAGGTGACGTGTCTGATGTTGGCCTAGGGAAGGGACGGTACTACAGTGTAAATGTGCCATT  
CAGGATGGCATAACAAGATGAAAAATATTACCAGATCTGTGAAAGTGTACTAAAGGAAGTATACCAAGCCT  
TTAATCCCAAAGCAGTGGTCTTACAGCTGGGAGCTGACACAATAGCTGGGGATCCCATGTGCTCCTTTAA  
CATGACTCCAGTGGGAATTGGCAAGTGTCTTAAGTACATCCTTCAATGGCAGTTGGCAACACTCATTTTTG  
GGAGGAGGAGGCTATAACCTTGCCAACACGGCTCGATGCTGGACATACTTGACCGGGTCACTCCTAGGGA  
AAACACTATCCTCTGAGATCCCAGATCATGAGTTTTTACAGCATATGGTCTGATTATGTGCTGGAAAT  
CACGCCAAGCTGCCGGCCAGACCGCAATGAGCCCCACCGAATCCAACAAATCCTCAACTACATCAAAGGG  
AATCTGAAGCATGTGGTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG229831 representing NM\_001166418  
Red=Cloning site Green=Tags(s)

MEEPEEPADSGQSLVPVYIYSPEYVSMCDLAKIPKRASMVHSLIEAYALHKQMRDEASGFCYLNDVAVLG  
 ILRLRRKFERILYVDLDLHHGDGVEDAFSFTSKVMTVSLHKFSPGFFPGTGDVSDVGLGKGRYYSVNVPI  
 QDGIQDEKYYQICESVLKEVYQAFNPKAVVLQLGADTIAGDPMCSFNMTVPVIGKCLKYILQWQLATLIL  
 GGGYNLANTARCWYTLTGIVLGKTLSSSEIPDHEFFTAYGPDYVLEITPSCRPRDRNEPHRIQQILNYIKG  
 NLKHVV

TRTRPLE - GFP Tag - V

**Restriction Sites:**

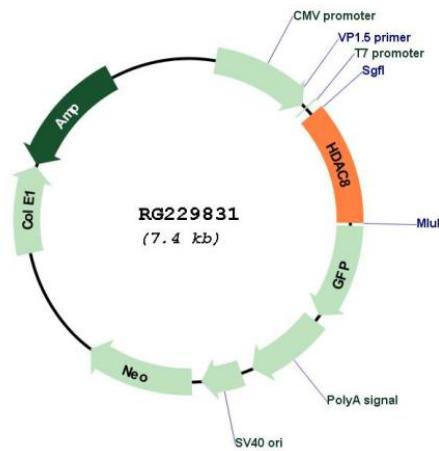
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001166418

**ORF Size:** 858 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001166418.2</a>
<b>RefSeq Size:</b>	1791 bp
<b>RefSeq ORF:</b>	861 bp
<b>Locus ID:</b>	55869
<b>UniProt ID:</b>	<a href="#">Q9BY41</a>
<b>Cytogenetics:</b>	Xq13.1
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	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]