

## Product datasheet for **SC321829**

### HDAC8 (NM\_018486) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC8 (NM_018486) Human Untagged Clone
Tag:	Tag Free
Symbol:	HDAC8
Synonyms:	CDA07; CDLS5; HD8; HDACL1; KDAC8; MRXS6; RPD3; WTS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_018486.1  
 GGAAGGTGGCTGCGGAACGGTTTTAAGCGGAAGATGGAGGAGCCGGAGGAACCGGCGGAC  
 AGTGGGCAGTCGCTGGTCCCGTTTTATCTATAGTCCCAGATATGTCAGTATGTGTGAC  
 TCCCCGGCCAAGATCCCCAAACGGGCCAGTATGGTGCATTCTTTGATTGAAGCATATGCA  
 CTGCATAAGCAAATGAGGATAGTTAAGCCTAAAGTGGCCTCCATGGAGGAGATGGCCACC  
 TTCCACACTGATGCTTATCTGCAGCATCTCCAGAAGGTCAGCCAAGAGGGCGATGATGAT  
 CATCCGGACTCCATAGAATATGGGCTAGGTTATGACTGCCAGCCACTGAAGGGATATTT  
 GACTATGCAGCAGCTATAGGAGGGGCTACGATCACAGCTGCCCAATGCCTGATTGACGGA  
 ATGTGCAAAGTAGCAATTAAGTGGTCTGGAGGGTGGCATCATGCAAAGAAAGATGAAGCA  
 TCTGGTTTTTGTATCTCAATGATGCTGTCTGGGAATATTACGATTGCGACGAAATTT  
 GAGCGTATTCTACGTGGATTTGGATCTGCACCATGGAGATGGTGTAGAAGACGCATTC  
 AGTTTCACCTCCAAAGTCATGACCGTGTCCCTGCACAAATTCCTCCAGGATTTTTCCCA  
 GGAACAGGTGACGTGTCTGATGTTGGCCTAGGGAAGGGACGGTACTACAGTAAATGTG  
 CCCATTGAGGATGGCATAACAAGTAAAAAATTACCAGATCTGTAAAAGTGTACTAAAG  
 GAAGTATACCAAGCCTTTAATCCAAAGCAGTGGTCTTACAGCTGGGAGCTGACACAATA  
 GCTGGGGATCCCATGTGCTCCTTAAACATGACTCCAGTGGGAATTGGCAAGTGTCTTAAG  
 TACATCCTTCAATGGCAGTTGGCAACACTCATTGTTGGGAGGAGGAGGCTATAACCTTGCC  
 AACACGGCTCGATGCTGGACATACTTGACCGGGGTTCATCCTAGGGAAAACACTATCCTCT  
 GAGATCCCAGATCATGAGTTTTTACAGCATATGGTCCTGATTATGTGCTGGAAATCACG  
 CCAAGTGCCTGGCCAGACCGCAATGAGCCCCACCGAATCCAACAAATCCTCAACTACATC  
 AAAGGGAATCTGAAGCATGTGGTCTAGTTGACAGAAAGAGATCAGGTTTCCAGAGCTGAG  
 GAGTGGTGCCTAATGAAGACAGCGTGTATGCAAGCAGTTTGTGGAATTTGTGACTG  
 CAGGGAAAAATTTGAAAGAAATTAATTTCTGAAAAATTTCCAAGGGGCATCAAGTGGCAGT  
 GGCTTCCTGGGGTGAAGAGGCAGGCACCCAGAGTCTCAACTGGACCTAGGGGAAGAAG  
 GAGATATCCACATTTAAAGTCTTATTTAAAAAAACACACACACAAATGAAATTTTT  
 AATCTTTGAAATTTATTTTAAAGCAATTGGGGAGGGGAGTATTTAATCATCTTAAATG  
 AAACAGATCAGAAGCTGGATGAGAGCAGTCACCAGTTTGTAGGGCAGGAGGCAGCTGACA  
 GGCAGGGTTTGGGCTCAGGACCATCCAGGTGGAGCCCTGGGAGAGAGGGTACTGATCAG  
 CAGACTGGGAGGTGGGGAGAAGTCCGCTGGTGTGTTTTAGTGTATATATCTTTGGTTT  
 TTTTAATAAAATCTTTGAAAACCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM\_018486
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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).

<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_018486.1</a> , <a href="#">NP_060956.1</a>
<b>RefSeq Size:</b>	1743 bp
<b>RefSeq ORF:</b>	1134 bp
<b>Locus ID:</b>	55869
<b>UniProt ID:</b>	<a href="#">Q9BY41</a>
<b>Cytogenetics:</b>	Xq13.1
<b>Domains:</b>	Hist_deacetyl
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: A downstream translational start codon is selected for this RefSeq based on a strong Kozak signal and transcript support. An upstream in-frame start codon is also present but has a weaker Kozak signal and sparse transcript support. Use of the upstream start codon would result in a protein that is 38 aa longer at the N-terminus. Leaky scanning by ribosomes may allow translation initiation at the downstream start codon, which is supported by 5'RACE experiments described in PubMed: 10922473 and encodes a protein with an N-terminus similar to other family members.</p>