

Product datasheet for **SC110918**

HDAC2 (NM_001527) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC2 (NM_001527) Human Untagged Clone
Tag:	Tag Free
Symbol:	HDAC2
Synonyms:	HD2; KDAC2; RPD3; YAF1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001527 edited
 GGCAGCAGCAGCAGCAGCAGCAGCAGGAGGAGGCCCGGTGGCGGCGGTGGCCGGGGAG
 CCCATGGCGTACAGTCAAGGAGGCGGCAAAAAAAAAAGTCTGCTACTACTACGACGGTGAT
 ATTGAAATTATTATTATGGACAGGGTCATCCCATGAAGCCTCATAGAATCCGCATGACC
 CATAACTTGCTGTTAAATATGGCTTATACAGAAAAATGGAAATATATAGGCCCATAAA
 GCCACTGCCGAAGAAATGACAAAATATCACAGTGATGAGTATATCAAATTTCTACGGTCA
 ATAAGACCAGATAACATGTCTGAGTATAGTAAGCAGATGCAGAGATTTAATGTTGGAGAA
 GATTGTCCAGTGTGGTGGACTCTTTGAGTTTTGTCTCAGCTCTCAACTGGCGGTTGAGTT
 GCTGGAGCTGTGAAGTTAAACCGACAACAGACTGATATGGCTGTTAATTGGGCTGGAGGA
 TTACATCATGCTAAGAAATCAGAAGCATCAGGATTCTGTTACGTTAATGATATTGTGCTT
 GCCATCCTTGAATTAATAAGTATCATCAGAGAGTCTTATATATTGATATAGATATTCAT
 CATGGTGTGGTGTGAAGAAGCTTTTTATACAACAGATCGTGTAAATGACGGTATCATT
 CATAAATATGGGAATACTTTCTGGCACAGGAGACTTGAGGGATATTGGTGTGGAAAA
 GGCAAATACTATGCTGTCAATTTCCAATGAGAGATGGTATAGATGATGAGTCATATGGG
 CAGATATTTAAGCCTATTATCTCAAAGGTGATGGAGATGTATCAACCTAGTGTGTGGTA
 TTACAGTGTGGTGCAGACTCATTATCTGGTGTAGACTGGGTTGTTTCAATCTAACAGTC
 AAAGGTGATGCTAAATGTGTAGAAGTTGTA AAAACTTTTTAACTTACCATTACTGATGCTT
 GGAGGAGTGGCTACACAATCCGTAATGTTGCTCGATGTTGGACATATGAGACTGCAGTT
 GCCCTTGATTGTGAGATCCCAATGAGTTGCCATATAATGATTACTTTGAGTATTTTGG
 CCAGACTTCAAATGCATATTAGTCCTTCAAACATGACAAACCAGAACTCCAGAATAT
 ATGGAAAAGATAAAACAGCGTTTGTGTTGAAAATTTGCGCATGTTACCTCATGCACCTGGT
 GTCCAGATGCAAGCTATCCAGAAGATGCTGTTTCAATGAAGACAGTGGAGATGAAGATGGA
 GAAGATCCAGACAAGAGAATTTCTATTCGAGCATCAGACAAGCGGATAGCTTGTGATGAA
 GAATTCTCAGATTCTGAGGATGAAGGAGAAGGAGGTGCAAGAAATGTGGCTGATCATAAG
 AAAGGAGCAAAGAAAGCTAGAATTGAAGAAGATAAGAAAGAAACAGAGGACAAAAAACA
 GACGTTAAGGAAGAAGATAAATCCAAGGACAACAGTGGTAAAAAACAGATACCAAAGGA
 ACCAAATCAGAACAGCTCAGCAACCCCTGAATTTGACAGTCTCACCATTTCAGAAAAATC
 ATAAAAAGAAAAATTGAAAGGAAAAATGTTTTCTTTTTGAAAGACTTCTGGCTTCATTTT
 ATACTACTTTGGCATGGACTGTATTTATTTTCAAATGGCTTTTTCTGTTTTGTTTTCTT
 GGCAAGTTTTATTGTGAGTTTTTCTAATTATGAAGCAAAATTTCTTTTCTCCACCATGCT
 TTATGTGATAGTATTTAAATTTGATGTGAGTTATTATGTCAAAAAACTGATCTATTTAA
 GAAGTAATTGGCCTTTCTGAGCTGATTTTTCCATCTTTTGTAAATTATCTTTATAAAAAA
 TTGTAATTGGA

Restriction Sites: Please inquire
ACCN: NM_001527
Insert Size: 2000 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: no

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_001527.1](#), [NP_001518.1](#)

RefSeq Size: 1985 bp

RefSeq ORF: 1467 bp

Locus ID: 3066

UniProt ID: [Q92769](#)

Cytogenetics: 6q21

Domains: Hist_deacetyl

Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

Protein Pathways: Cell cycle, Chronic myeloid leukemia, Huntington's disease, Notch signaling pathway, Pathways in cancer

Gene Summary:

This gene product belongs to the histone deacetylase family. Histone deacetylases act via the formation of large multiprotein complexes, and are responsible for the deacetylation of lysine residues at the N-terminal regions of core histones (H2A, H2B, H3 and H4). This protein forms transcriptional repressor complexes by associating with many different proteins, including YY1, a mammalian zinc-finger transcription factor. Thus, it plays an important role in transcriptional regulation, cell cycle progression and developmental events. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2010]

Transcript Variant: This variant (1) encodes the functional protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.