

## Product datasheet for **SC327153**

### HDAC10 (NM\_001159286) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC10 (NM_001159286) Human Untagged Clone
Tag:	Tag Free
Symbol:	HDAC10
Synonyms:	HD10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



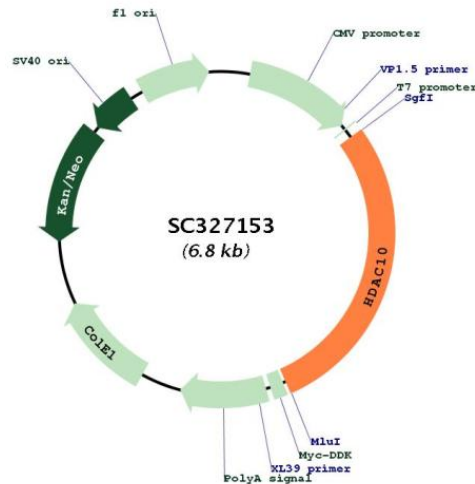
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Fully Sequenced ORF: >SC327153 representing NM\_001159286.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGGACCGCGCTTGTGTACCATGAGGACATGACGGCCACCCGGCTGCTCTGGGACGACCCCGAGTGC
GAGATCGAGCGTCTGAGCGCTGACCGCAGCCCTGGATCGCCTGCGGCAGCGCGCCTGGAACAGAGG
TGTCTGCGGTTGTCAGCCCGCAGGCCTCGGAAGAGGAGCTGGGCCTGGTGCACAGCCAGAGTATGTA
TCCTGTGTCAGGGAGACCCAGGTCCTAGGCAAGGAGGAGCTGCAGGCGCTGCCGGACAGTTTCGACGCC
ATCTACTTCCACCCGAGTACCTTCACTGCGCGCGGCTGGCCGACAGGGGCTGGACTGCAGCTGGTGGAC
GCTGTGCTCACTGGAGCTGTGCAAAATGGGCTTGCCTGGTGGGCTCCCGGCCACCATGGCCAGAGG
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GGGCTACACAGGATCCTCGTCTGGACTGGGATGTGACCATGGCCAGGGGATCCAGTATCTCTTTGAG
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GAGTCAGATGCAGACGCAGTGGGCGGGGACAGGGCCTCGGCTTCACTGTCAACCTGCCCTGGAACAG
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CAAATGCAGGCCACGCCAGAGTGCTTCGCCACCTCACACAGCTGCTGCAGGTGCTGGCCGGCGGCCGG
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ACGCTGCTGGGTGACCCGGCCCCACCCCTGTCAGGGCCAATGGCGCCATGTGAGAGTCCCTAGAGTCC
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TCAGCCCTGAGGGAGGAGACAGAAGCCTGGGCCAGGCCACAGAGTCCCTGGCCGGGAGGAGGCCCTC
ACTGCACTTGGGAAGCTCCTGTACCTCTTAGATGGGATGCTGGATGGGCAGGTGAACAGTGGTATAGCA
GCCACTCCAGCCTGCTGCAGCAGCCACCCTGGATGTGGCTGTTGCGAGAGGCCTGCCACGGAGCC
CAGAGGCTGCTGTGCGTGGCCCTGGGACAGCTGGACCGCCTCCAGACCTCGCCCATGACGGGAGGAGT
CTGTGGTGAACATCAGGGGCAAGGAGGCGGCTGCCCTATCCATGTTCCATGTCTCCACGCCACTGCCA
GTGATGACCGGTGGTTTCTGAGCTGCATCTTGGGCTTGGTGTGCCCTGGCCTATGGCTTCCAGCCT
GACCTGGTGTGGTGGCGCTGGGCTGGCCATGGCTGCAGGGCCCCACGCTGCACTCCTGGCTGCA
ATGCTTCGGGGGCTGGCAGGGGCGGAGTCTGGCCCTCCTGGAGGAGAACTCCACACCCAGCTAGCA
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GAGGACGTCAGGCCCTGATGTACCTGAGAGGGCAGCTGGAGCCTCAGTGAAGATGTTGCAGTGCCAT
CCTCACCTGGTGGCTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI

## Plasmid Map:



ACCN: NM\_001159286

Insert Size: 1950 bp

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).

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\\_001159286.1](#)

RefSeq Size: 2660 bp

RefSeq ORF: 1950 bp

Locus ID: 83933

UniProt ID: [Q969S8](#)

Cytogenetics: 22q13.33

**Protein Families:** Druggable Genome, Transcription Factors

**MW:** 69.4 kDa

**Gene Summary:** The protein encoded by this gene belongs to the histone deacetylase family, members of which deacetylate lysine residues on the N-terminal part of the core histones. Histone deacetylation modulates chromatin structure, and plays an important role in transcriptional regulation, cell cycle progression, and developmental events. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]

Transcript Variant: This variant (2) lacks an in-frame coding exon compared to variant 1. This results in a shorter isoform (2, also known as beta) missing an internal protein segment compared to isoform 1.