

Product datasheet for **RG218536**

HDAC10 (NM_032019) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC10 (NM_032019) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HDAC10
Synonyms:	HD10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG218536 representing NM_032019
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGACCGCGCTTGTGTACCATGAGGACATGACGGCCACCCGGCTGCTCTGGGACGACCCCGAGTGCG
 AGATCGAGCGTCCTGAGCGCCTGACCGCAGCCCTGGATCGCCTGCGGCAGCGCGGCTGGAACAGAGGTG
 TCTGCGGTTGTCAGCCCGGAGGCTCGGAAGAGGAGCTGGGCTGGTGACAGCCAGAGTATGTATCC
 CTGGTCAGGGAGACCCAGGTCCTAGGCAAGGAGGAGCTGCAGGCGCTGTCCGGACAGTTCGACGCCATCT
 ACTTCCACCCGAGTACCTTCTACTGCGCGCGGCTGGCCGAGGGGCTGGACTGCAGCTGGTGAGCGTGT
 GCTCACTGGAGCTGTGCAAAATGGGCTTGCCTGGTGAGGCTCCCGGGCACCATGGCCAGAGGGCGGCT
 GCCAACGGTTCTGTGTGTTCAACAACGTGGCCATAGCAGCTGCACATGCCAAGCAGAAACCGGGTAC
 ACAGGATCCTCGTCGTGGACTGGGATGTGACCATGGCCAGGGGATCCAGTATCTCTTTGAGGATGACCC
 CAGCGTCTTTACTTCTCTGGCACCCTATGAGCATGGGCGCTTCTGGCCTTCTCTGCGAGAGTCAGAT
 GCAGACGCAGTGGGGCGGGACAGGGCCTCGGCTTCACTGTCAACCTGCCCTGGAACCAGGTTGGGATGG
 GAAACGCTGACTACGTGGCTGCCTTCTGCACCTGCTGCTCCACTGGCCTTTGAGTTTGACCTGAGCT
 GGTGCTGGTCTCGGCAGGATTTGACTCAGCCATCGGGACCTGAGGGGCAAATGCAGGCCACGCCAGAG
 TGCTTCGCCACCTCACACAGCTGCTGCAGGTGCTGGCCGGCGCCGGGTCTGTGCCGTGCTGGAGGGCG
 GCTACCACCTGGAGTCACTGGCGGAGTCACTGTGCATGACAGTACAGACGCTGCTGGGTGACCCGGCCCC
 ACCCTGTGAGGGCAAATGGCGCCATGTGAGAGTGCCTTAGAGTCCATCCAGAGTCCCGTGTGCCAG
 GCCCGCACTGGAAGAGCCTCCAGCAGCAAGATGTGACCGCTGTCCGATGAGCCCAGCAGCCACTCCC
 CAGAGGGGAGGCCTCCACCTCTGCTGCCCTGGGGTCCAGTGTGTAAAGGCAGCTGCATCTGCACCGAGTC
 CCTCTGGACCAGCCGTGCCTCTGCCCCGACCCCTCTGTCCGCACCGCTGTTGCCCTGACAACGCCGGAT
 ATCACATTGGTTCTGCCCTGACGTATCCAACAGGAAGCGTCAGCCCTGAGGGAGGAGACAGAAGCCT
 GGGCCAGGCCACAGAGTCCCTGGCCGGGAGGAGGCCCTCACTGCACTTGGGAAGCTCCTGTACCTCTT
 AGATGGGATGCTGGATGGCAGGTGAACAGTGGTATAGCAGCCACTCCAGCCTCTGCTGCAGCAGCCACC
 CTGGATGTGGCTGTTCCGAGAGGCTGTCCACGGAGCCAGAGGCTGCTGTGCTGGCCCTGGGACAGC
 TGGACCGCCTCCAGACCTCGCCATGACGGGAGGAGTCTGTGGCTGAACATCAGGGCAAGGAGGGCGC
 TGCCCTATCCATGTTCCATGTCTCCACGCCACTGCCAGTATGACCGGTGGTTTCTGAGCTGCATCTTG
 GGCTTGGTGTGCCCTGGCCTATGGCTTCCAGCCTGACCTGGTGTGGTGGCGCTGGGGCTGGCCATG
 GCCTGCAGGGCCCCACGCTGCACTCCTGGCTGCAATGCTTCGGGGCTGGCAGGGGGCCGAGTCTGGC
 CCTCTGGAGGAGAACTCCACACCCAGCTAGCAGGGATCCTGGCCCGGGTGTGAATGGAGAGGACCT
 CCTAGCCTAGGCCCTTCTCTGTGGCTCCCCAGAGGACGTCCAGGCCCTGATGTACCTGAGAGGGCAGC
 TGGAGCCTCAGTGAAGATGTTGCAGTGCCATCCTCACCTGGTGGCT

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTAA

Protein Sequence: >RG218536 representing NM_032019
 Red=Cloning site Green=Tags(s)

MGTALVYHEDMTATRLRWDDPECEIERPERLTAALDRLRQRGLEQRCLRSAREASEEELGLVHSPEYVS
 LVRETQVLGKEELQALSGQFDAIYFHPSTFHCARLAAGAGLQLVDAVLTGAVQNGLALVRPPGHHGQRAA
 ANGFCVFNVAIAAAHAKQKHGLHRILVVDWDVHHGQGIQYLFEDDPVLYFSWHRYEHGRFWPFLRES
 ADAVGRGQGLGFTVNL PWNQVGMGNADYVA AFLHLLLPLAFEFDPPELVLSAGFDSAIGDPEGQM QATPE
 CFAHLTQLLQVLAGGRVCAVLEGGYHLESLAESVCMTVQTL LGDPAPPLSGPMAPCQSALESIQSARAAQ
 APHWKSLQQQDVTAVPMPSSSHSPEGRPPPLPGGPVCKAAASAPSSLLDQPCLCPAPSVRTAVALTTPD
 ITLVLPDVIQQEASALREETEAWARPHESLAREEAL TALGKLLYLLDGMLDGQVNSGIAATPASAAAAT
 LDVAVRRGLSHGAQRLLCVALGQLDRPPDLAHDGRSLWLNIRGKEAAAALSMFHVSTPLPVM TGGFLSCIL
 GLVLPPLAYGFQPD LVLVALGPGHGLQGPHAALLAAML RGLAGGRVLALLEENSTPQLAGILARLVNGEAP
 PSLGPSSVASPEDVQALMYLRGQLEPQWKMLQCHPHLVA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032019

ORF Size: 2007 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_032019.6](#)

RefSeq Size: 2702 bp

RefSeq ORF: 2010 bp

Locus ID: 83933

UniProt ID: [Q969S8](#)

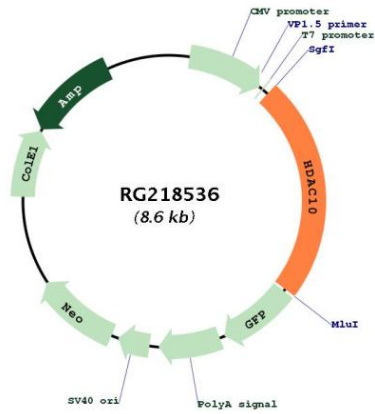
Cytogenetics: 22q13.33

Domains: Hist_deacetyl

Protein Families: Druggable Genome, Transcription Factors

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]

Product images:



Circular map for RG218536