

Product datasheet for **RN206368**

Hdac10 (NM_001035000) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hdac10 (NM_001035000) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Hdac10
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN206368 representing NM_001035000
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCACAGCACTTGTGTACCACGAGGACATGACAGCCACCCGACTGCTCTGGGATGACCCCTGAGTGCG
 AAATTGAGTGCCAGAGCGCCTGACAGCTGCCTTGGATGGCCTGCGGCAGCGTGGCCTGGAAGAAAGGTG
 CCAGTGTTTGTAGTTTGTGAGGCATCAGAGGAAGAGTTGGGACTGGTGCACAGCCAGAATATATAGCC
 CTGGTGCAGAAGACCCAGACCCTGGACAAAGAGGAGCTCCACACACTGTCTAAGCAGTATGATGCTGTCT
 ACTTCCACCCGGATACTTTTCACTGTGCAAGGCTGGCAGCGGGGGCTGCACTGCGGCTGGTGGATGCTGT
 GCTAACAGGAGCTGTGCACAATGGCGTTGCCCTGGTGGGCTCCAGGGCACCATAGTCAGAGGGCGGCT
 GCCAATGGCTTCTGTGTGTTCAACAACGTGGCTATAGCAGCCAGACATGCCAAGCAGAAATACGGGCTGC
 AGAGGATTCTCATTGTCGACTGGGATGTCCACCATGGCCAGGGCATCCAGTATATCTTTGAGGATGACCC
 CAGTGTCTTTATTTCTCTGGCACCCTATGAGCATGAAACTTCTGGCCGTTCTCCAGAGTCTGAT
 GCAGACACAGTTGGCCGAGGGCGGGGCCAAGGTTTCACTGTCAATTTGCCCTGGAACCAGGTTGGGATGG
 GAAATGCTGACTATTTGGCTGCCTTCTGCATGTGCTGCTCCCGTTGGCCTTTGAGTTTGACCCCTGAGCT
 GGTGCTGGTGTGACGCTGGATTGACTCTGCTATTGGGGACCCTGAGGGGCAGATGCAGGCCACCCCTGAG
 TGCTTTGCCCATCTTACACAGCTGCTACAGGTGCTGGCTGGTGGCCGGATTTGTGCTGTGTTGGAGTGCC
 CTGGAGTCTATCCAGAGTGTTCGGACAGCCAGACCCCTCACTGGACAAGCCTCCAACAAATCCACATG
 TACAGTAGCAGAGGATCACTGAGCCCCGCTGGACAGACCGTGCCACCGCCCTACGCCCCCAATCTGC
 ATAGCTGTTGCCCTGGCTGTGTCAGGTGCTGCCCTGGACTTACCTCTGGAGTGTCCATCAAGAAGGGT
 CAGCCTTGAGGGAGGAGACCGAGGCATGGGCCAGGCTTCAAGTCCCAGTTTCAGGACGACGATCTTGC
 CGCACTGGGGAAGAGTCTGTGCCTCTTAGATGGAATCCTGGATGGGCAGATAAGAAGTGCTATAGCAACC
 ACAACTGCCCTTCCACAGCAGCAACTTTGGGTGTGCTCATTAGCGATGTGTAGCCCATAGAGGTCAGA
 GGAGAATTCTGTGGCTCAGCATCCGGGCAAGGAGGCAGACATCTGGTCCATGTTCCACTTCTCCACTCC
 ACTGCCACAGACAAGTGGAGGTTTCTGAGCTTCACTTTGGGTCTGGTACTGCCCTTAGCCTATGGCTTC
 CAGCCTGACATGGTGTGATGGCCCTGGGGCCGCCATGGCCTGCAGAAATGCCAAGCTGCTCTTTGG
 CTGCAATGCTTCGGAGCCAGTAGGGGGCCGAATTCTAGCTTTAGTGAAGAGGAATCCATACTCCAGCT
 TGCAAGAACCCTGGCACAGGATTGTCATGGAGAAACACCTCCAGTCTGGGCCCTTCTCGATGGCATCT
 CCAGAGGAGATCCAGGCCCTTATGTTTCTAAAAGCTCAGCTGGAGCCTCGGTGGAAGTTGCTGCAGGTGG
 CTGCTCTCCACCA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001035000
- Insert Size:** 1767 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).
- 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_001035000.1](#), [NP_001030172.1](#)

RefSeq Size: 2174 bp

RefSeq ORF: 1767 bp

Locus ID: 362981

UniProt ID: [Q569C4](#)

Cytogenetics: 7q34

Gene Summary: Polyamine deacetylase (PDAC), which acts preferentially on N(8)-acetylspermidine, and also on acetylcadaverine and acetylputrescine. Exhibits attenuated catalytic activity toward N(1),N(8)-diacetylspermidine and very low activity, if any, toward N(1)-acetylspermidine. Histone deacetylase activity has been observed in vitro. Has also been shown to be involved in MSH2 deacetylation. The physiological relevance of protein/histone deacetylase activity is unclear and could be very weak. May play a role in the promotion of late stages of autophagy, possibly autophagosome-lysosome fusion and/or lysosomal exocytosis in neuroblastoma cells. May play a role in homologous recombination. May promote DNA mismatch repair. [UniProtKB/Swiss-Prot Function]