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Product datasheet for RR206368

Hdac10 (NM_001035000) Rat Tagged ORF Clone

Product data:

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

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ORF Nucleotide Sequence:

>RR206368 representing NM_001035000
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCACAGCACTTGTGTACCACGAGGACATGACAGCCACCCGACTGCTCTGGGATGACCCTGAGTGCG
AAATTGAGTGCCCAGAGCGCCTGACAGCTGCCTTGGATGGCCTGCGGCAGCGTGGCCTGGAAGAAAGGTG
CCAGTGTTTGTCAGTTTGTGAGGCATCAGAGGAAGAGTTGGGACTGGTGCACAGCCCAGAATATATAGCC
CTGGTGCAGAAGACCCAGACCCTGGACAAAGAGGAGCTCCACACACTGTCTAAGCAGTATGATGCTGTCT
ACTTCCACCCGGATACTTTTCACTGTGCAAGGCTGGCAGCGGGGGCTGCACTGCGGCTGGTGGATGCTGT
GCTAACAGGAGCTGTGCACAATGGCGTTGCCCTGGTGAGGCCTCCAGGGCACCATAGTCAGAGGGCGGCT
GCCAATGGCTTCTGTGTGTTCAACAACGTGGCTATAGCAGCCAGACATGCCAAGCAGAAATACGGGCTGC
AGAGGATTCTCATTGTCGACTGGGATGTCCACCATGGCCAGGGCATCCAGTATATCTTTGAGGATGACCC
CAGTGTCCTTTATTTCTCCTGGCACCGCTATGAGCATGGAAACTTCTGGCCGTTCCTCCCAGAGTCTGAT
GCAGACACAGTTGGCCGAGGGCGGGGCCAAGGTTTCACTGTCAATTTGCCCTGGAACCAGGTTGGGATGG
GAAATGCTGACTATTTGGCTGCCTTCCTGCATGTGCTGCTCCCGTTGGCCTTTGAGTTTGACCCTGAGCT
GGTGCTGGTGTCAGCTGGATTCGACTCTGCTATTGGGGACCCTGAGGGGCAGATGCAGGCCACCCCTGAG
TGCTTTGCCCATCTTACACAGCTGCTACAGGTGCTGGCTGGTGGCCGGATTTGTGCTGTGTTGGAGTGCC
CTGGAGTCTATCCAGAGTGTTCGGACAGCCCAGACCCCTCACTGGACAAGCCTCCAACAAATTCCACATG
TACAGTAGCAGAGGATTCACTGAGCCCCTGCCTGGACAGACCGTGCCACCGCCCTACGCCCCCAATCTGC
ATAGCTGTTGCCTTGGCTGTGTCAGGTGCTGCCCTGGACTTACCTCCTGGAGTGCTCCATCAAGAAGGGT
CAGCCTTGAGGGAGGAGACCGAGGCATGGGCCAGGCTTCACAAGTCCCAGTTTCAGGACGACGATCTTGC
CGCACTGGGGAAGAGTCTGTGCCTCTTAGATGGAATCCTGGATGGGCAGATAAGAAGTGCTATAGCAACC
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GGAGAATTCTGTGGCTCAGCATCCGGGGCAAGGAGGCAGACATCTGGTCCATGTTCCACTTCTCCACTCC
ACTGCCACAGACAACTGGAGGGTTTCTGAGCTTCATCTTGGGTCTGGTACTGCCCTTAGCCTATGGCTTC
CAGCCTGACATGGTGTTGATGGCCCTGGGGCCCGCCCATGGCCTGCAGAATGCCCAAGCTGCTCTCTTGG
CTGCAATGCTTCGGAGCCCAGTAGGGGGCCGAATTCTAGCTTTAGTGGAAGAGGAATCCATACTCCAGCT
TGCAAGAACCCTGGCACAGGTATTGCATGGAGAAACACCTCCCAGTCTGGGCCCTTTCTCGATGGCATCT
CCAGAGGAGATCCAGGCCCTTATGTTTCTAAAAGCTCAGCTGGAGCCTCGGTGGAAGTTGCTGCAGGTGG
CTGCTCCTCCACCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

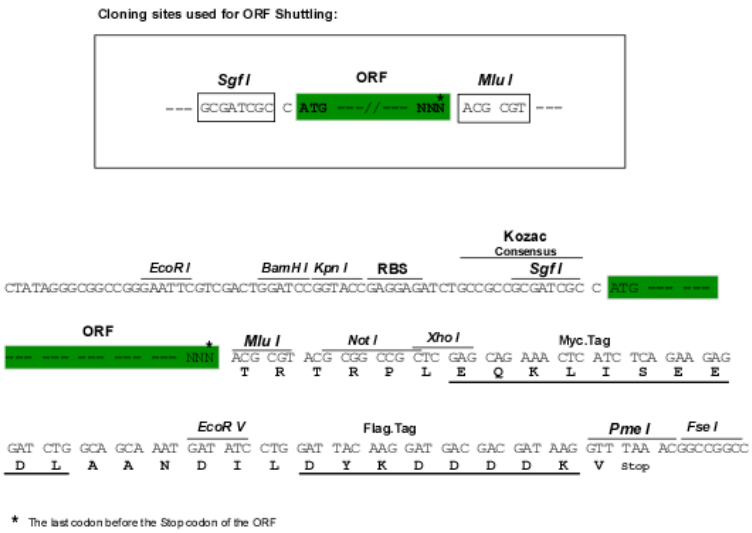
>RR206368 representing NM_001035000
Red=Cloning site Green=Tags(s)

MGTALVYHEDMTATRLLWDDPECEIECPERLTAALDGLRQRGLEERCQCLSVCEASEEELGLVHSPEYIA
LVQKTQTLDKEELHTLSKQYDAVYFHPDTFHCARLAAGAALRLVDAVLTGAVHNGVALVRPPGHHSQRAA
ANGFCVFNNVAIAARHAKQKYGLQRILIVDWDVHHGQGIQYIFEDDPSVLYFSWHRYEHGNFWPFLPESD
ADTVGRGRGQGFTVNLPWNQVGMGNADYLAAFLHVLLPLAFEFDPELVLVSAGFDSAIGDPEGQMQATPE
CFAHLTQLLQVLAGGRICAVLECPGVYPECSDSPDPSLDKPPTNSTCTVAEDSLSPCLDRPCHRPTPPIC
IAVALAVSGAALDLPPGVLHQEGSALREETEAWARLHKSQFQDDDLAALGKSLCLLDGILDGQIRSAIAT
TTALATAATLGVLIQRCVAHRGQRRILWLSIRGKEADIWSMFHFSTPLPQTTGGFLSFILGLVLPLAYGF
QPDMVLMALGPAHGLQNAQAALLAAMLRSPVGGRILALVEEESILQLARTLAQVLHGETPPSLGPFSMAS
PEEIQALMFLKAQLEPRWKLLQVAAPPP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001035000

ORF Size: 1764 bp

OTI Disclaimer: 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_001035000.1, NP_001030172.1

RefSeq Size: 2174 bp

RefSeq ORF: 1767 bp

Locus ID: 362981

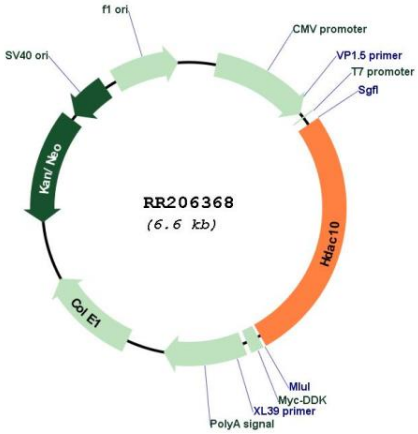
UniProt ID: Q569C4

Cytogenetics: 7q34

MW: 64 kDa

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]

Product images:



Circular map for RR206368