

Product datasheet for RC201919

HDAC11 (NM_024827) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HDAC11 (NM_024827) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HDAC11
Synonyms:	HD11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201919 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCTACACACAACCCAGCTGTACCAGCATGTGCCAGAGACACGCTGGCCAATCGTGTACTCGCCGCGCT
ACAACATCACCTTCATGGGCTGGAGAAGCTGCATCCCTTTGATGCCGAAAATGGGGCAAAGTGATCAA
TTTCCTAAAAGAAGAGAAGCTTCTGTCTGACAGCATGCTGGTGGAGGCGGGGAGGCCTCGGAGGAGGAC
CTGCTGGTGGTGCACACGAGGCGCTATCTTAATGAGCTCAAGTGGTCTTTGCTGTTGCTACCATCACAG
AAATCCCCCGTTATCTTCTCCCAACTTCTTGTGCAGAGGAAGGTGCTGAGCCCCCTTCGGACCCA
GACAGGAGGAACCATAATGGCGGGAAGCTGGCTGTGGAGCGAGGCTGGGCCATCAACGTGGGGGTGGC
TTCCACCACTGCTCCAGCGACCGTGGCGGGGGTCTGTGCCATGCGGACATCACGCTCGCCATCAAGT
TTCTGTTTGAGCGTGTGGAGGGCATCTCCAGGGTACCATCATTGATCTTGATGCCCATCAGGGCAATGG
GCATGAGCGAGACTTCATGGACGACAAGCGTGTGTACATCATGGATGTCTACAACCGCCACATCTACCCA
GGGACCGCTTTGCCAAGCAGGCCATCAGGCGGAAGTGGAGCTGGAGTGGGGCAGAGGATGATGAGT
ACCTGGATAAGGTGGAGAGGAACATCAAGAAATCCCTCCAGGAGCACCTGCCGACGTGGTGGTATACAA
TGCAGGCACCGACATCTCGAGGGGACCGCTTGGGGGGCTGTCCATCAGCCCAGCGGGCATCGTGAAG
CGGGATGAGCTGGTGTCCGGATGGTCCGTGGCCGCGGGTGGCCATCCTTATGGTGACCTCAGGCGGGT
ACCAGAAGCGCACAGCCGCATCATTGCTGACTCCATACTTAATCTGTTGGCCTGGGGCTATTGGGCC
TGAGTACCCAGCGTCTCCGCACAGAACTCAGACACACCGCTGCTTCCCCCTGCAGTGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201919 protein sequence
Red=Cloning site Green=Tags(s)

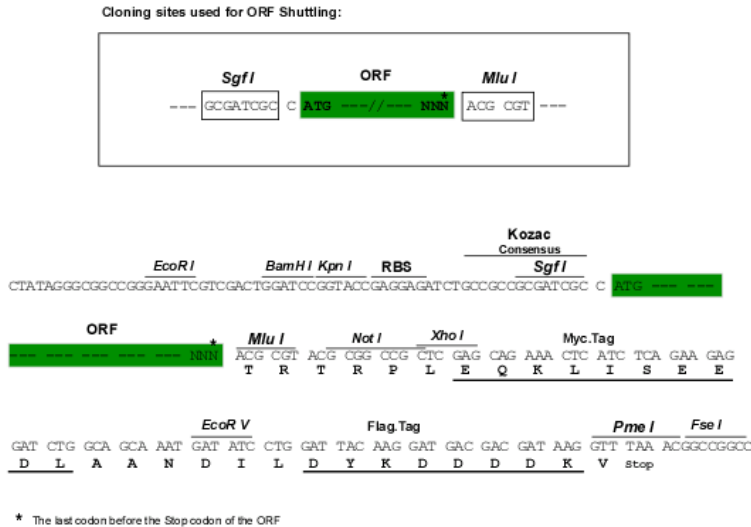
MLHTTQLYQHPETRWPIVYSPRYNITFMGLEKLPFDAGKWGKVINFLKEEKLLSDSMLVEAREASEED
 LLVVHTRRYLNELKWSF AVATITEIPPVIFLPNFLVQRKVLRLRQTGGTIMAGKLAVERGWAINVGGG
 FHCSSDRGGGFCAYADITLAIKFLFERVEGISRATIIDLDAHQNGHERDFMDDKRVYIMDVYNRHIYP
 GDRFAKQAIRRKVELEWGTEDDEYLDKVERNIKSLQEHLPDVVVYNAGTDILEGDRLGGLSISPAGIVK
 RDELVFRMVRGRRVPIILMVTSGGYQKRTARIADSILNLFGLGLIGPESPSVSAQNSDTPLLPPAVP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6004_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024827

ORF Size: 1041 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_024827.4](#)

RefSeq Size: 2918 bp

RefSeq ORF: 1044 bp

Locus ID: 79885

UniProt ID: [Q96DB2](#)

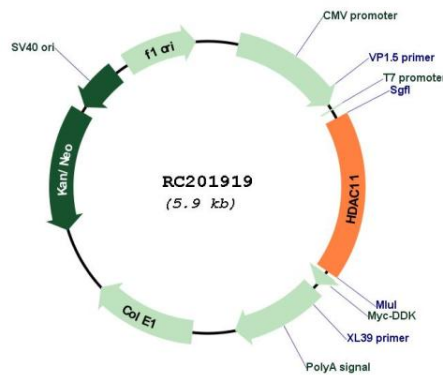
Cytogenetics: 3p25.1

Protein Families: Druggable Genome, Transcription Factors

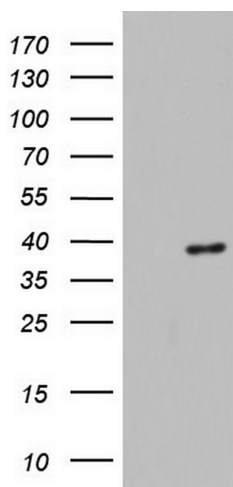
MW: 39.2 kDa

Gene Summary: This gene encodes a class IV histone deacetylase. The encoded protein is localized to the nucleus and may be involved in regulating the expression of interleukin 10. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Apr 2009]

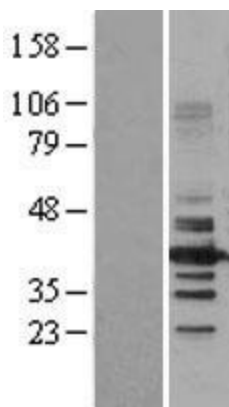
Product images:



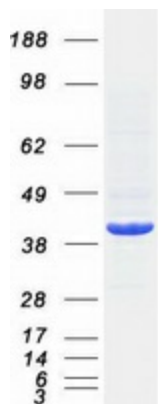
Circular map for RC201919



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HDAC11 (Cat# RC201919, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HDAC11 (Cat# [TA804542]). Positive lysates [LY403040] (100ug) and [LC403040] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY403040]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201919 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HDAC11 protein (Cat# [TP301919]). The protein was produced from HEK293T cells transfected with HDAC11 cDNA clone (Cat# RC201919) using MegaTran 2.0 (Cat# [TT210002]).