

Product datasheet for RC201735

Histone H1x (H1FX) (NM_006026) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Histone H1x (H1FX) (NM_006026) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Histone H1x
Synonyms:	H1.10; H1FX; H1X
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201735 representing NM_006026 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCGTGGAGCTCGAGGAGGCCCTGCCAGTGACGACCGCCGAGGGAATGGCCAAGAAGGTGACCAAGG
CTGGCGGCTCGGCGGCGTTGTCCCATCTAAGAAGAGGAAGAATAGCAAGAAGAAGAACCCAGCCGGCAA
GTACAGCCAGCTGGTGGTGGAGACCATCCGTAGGCTGGGCGAGCGCAACGGCTCGTCGTGGCCAAGATC
TACACCGAGGCCAAGAAGTTCCGTGGTTCGACCAGCAGAATGGGCGCACCTACCTCAAGTACTCGATCA
AGGCGCTGGTGCAGAACGACACGCTTCTGCAGGTGAAGGGCACCGCGCCAACGGTTCCTCAAGCTCAA
CCGCAAGAAGCTGGAGGGCGGCGGGAGCGGCGGGAGCCCGGCGGCGCCACCGCCCGCCCGCCACC
GCGCACAAGCGAAGAAGGCAGCCCGGGCGCGGCGGCTCCCGCGCGCGGACAAGAAGCCCGCCAGGG
GCCAGAAGCCGGAGCAGCGCTCGCACAAGAAGGGCGCTGGCGCCAAGAAGGACAAGGCGGCAAGGCCAA
GAAGACGGCGGCCCGGGGCAAGAAGGTGAAGAAGGCGGCAAGCCAGCGTCCCAAAGTGCCCAAG
GGCCGCAAG

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC201735 representing NM_006026
 Red=Cloning site Green=Tags(s)

MSVELEEALPVTTAEGMAKKVTKAGGSAALSPSKKRKNSKKKNQPGKYSQLVVETIRRLGERNGSSLAKI
 YTEAKKVPWFDDQQNGRITYLKYSIKALVQNDTLLQVKG TGANGSFKLNRKLEGGGERRGAPAAATAPAPT
 AHKAKKAAPGAAGSRRADKKPARGQKPEQRSHKKGAGAKKDKGGKAKKTA AAGGKVKKAAKPSVPKVPK
 GRK

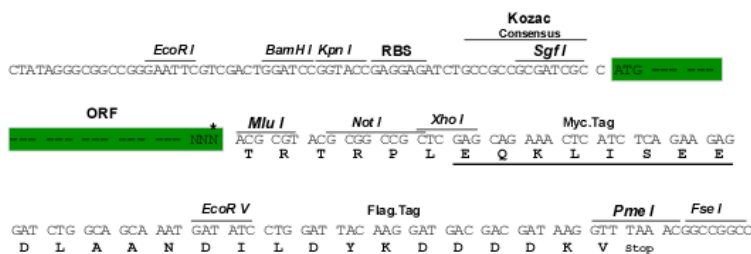
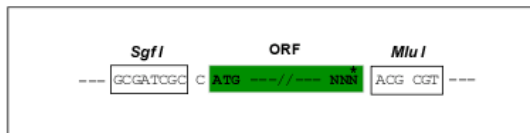
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1436_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_006026

ORF Size: 639 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_006026.4](#)

RefSeq Size: 1503 bp

RefSeq ORF: 642 bp

Locus ID: 8971

UniProt ID: [Q92522](#)

Cytogenetics: 3q21.3

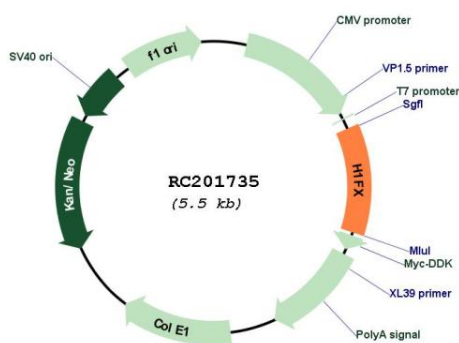
Domains: linker_histone

Protein Families: ES Cell Differentiation/IPS

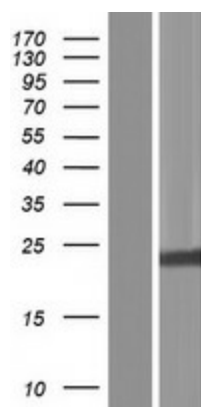
MW: 22.3 kDa

Gene Summary: Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene encodes a replication-independent histone that is a member of the histone H1 family. [provided by RefSeq, Oct 2015]

Product images:



Circular map for RC201735



Western blot validation of overexpression lysate (Cat# [LY416918]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201735 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).