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Product datasheet for RC224189

Histone H1.5 (HIST1H1B) (NM_005322) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Histone H1.5 (HIST1H1B) (NM_005322) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Histone H1.5
Synonyms:	H1; H1.5; H1B; H1F5; H1s-3; HIST1H1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC224189 representing NM_005322
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGGAAACCGCTCCTGCCGAGACAGCCACCCCAGCGCCGGTGGAGAAATCCCCGGCTAAGAAGAAGG
CAACTAAGAAGGCTGCCGGCGCCGGCGCTGCTAAGCGCAAAGCGACGGGGCCCCCAGTCTCAGAGCTGAT
CACCAAGGCTGTGGCTGCTTCTAAGGAGCGCAATGGCCTTTCTTTGGCAGCCCTTAAGAAGGCCTTAGCG
GCCGGTGGCTACGACGTGGAGAAGAATAACAGCCGCATTAAGCTGGGCCTCAAGAGCTTGGTGAGCAAGG
GCACCCTGGTGCAGACCAAGGGCACTGGTGCTTCTGGCTCCTTTAAACTCAACAAGAAGGCGGCCTCCGG
GGAAGCCAAGCCCAAAGCCAAGAAGGCAGGCGCCGCTAAAGCTAAGAAGCCCGCGGGGGCCACGCCTAAG
AAGGCCAAGAAGGCTGCAGGGGCGAAAAAGGCAGTGAAGAAGACTCCGAAGAAGGCGAAGAAGCCCGCGG
CGGCTGGCGTCAAAAAGGTGGCGAAGAGCCCTAAGAAGGCCAAGGCCGCTGCCAAACCGAAAAAGGCAAC
CAAGAGTCCTGCCAAGCCCAAGGCAGTTAAGCCGAAGGCGGCAAAGCCCAAAGCCGCTAAGCCCAAAGCA
GCAAAACCTAAAGCTGCAAAGGCCAAGAAGGCGGCTGCCAAAAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC224189 representing NM_005322
Red=Cloning site Green=Tags(s)

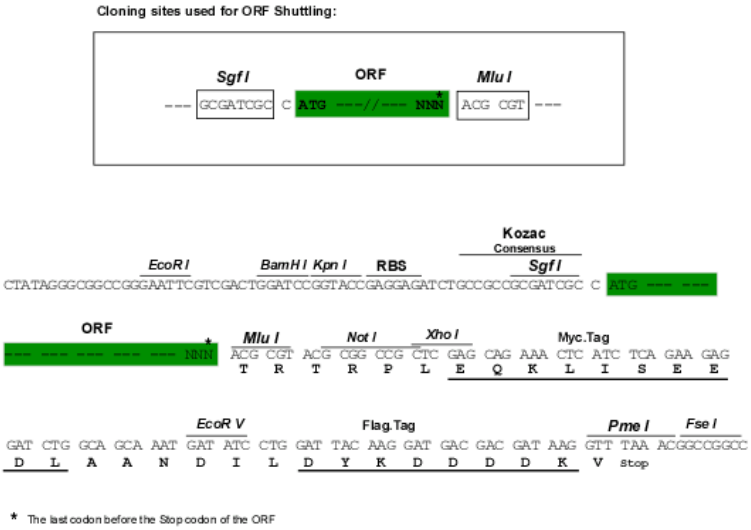
MSETAPAETATPAPVEKSPAKKKATKKAAGAGAAKRKATGPPVSELITKAVAASKERNGLSLAALKKALA
AGGYDVEKNNSRIKLGLKSLVSKGTLVQTKGTGASGSFKLNKKAASGEAKPKAKKAGAAKAKKPAGATPK
KAKKAAGAKKAVKKTPKKAKKPAAAGVKKVAKSPKKAKAAAKPKKATKSPAKPKAVKPKAAKPKAAKPKA
AKPKAAKAKKAAAKKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6100_c10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005322

ORF Size: 678 bp

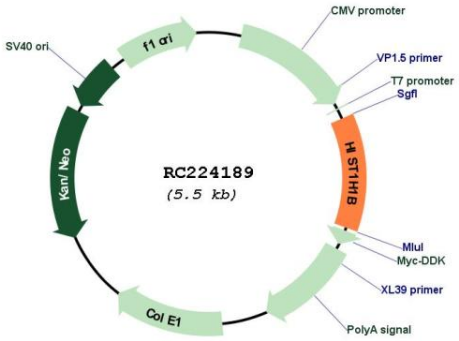
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

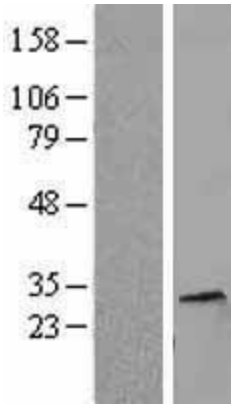
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_005322.3
RefSeq Size:	790 bp
RefSeq ORF:	681 bp
Locus ID:	3009
UniProt ID:	P16401
Cytogenetics:	6p22.1
MW:	22.4 kDa
Gene Summary:	Histones are basic nuclear proteins responsible for nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H1 family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the small histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015]

Product images:



Circular map for RC224189



Western blot validation of overexpression lysate (Cat# [LY401641]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224189 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).