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Product datasheet for RC216020

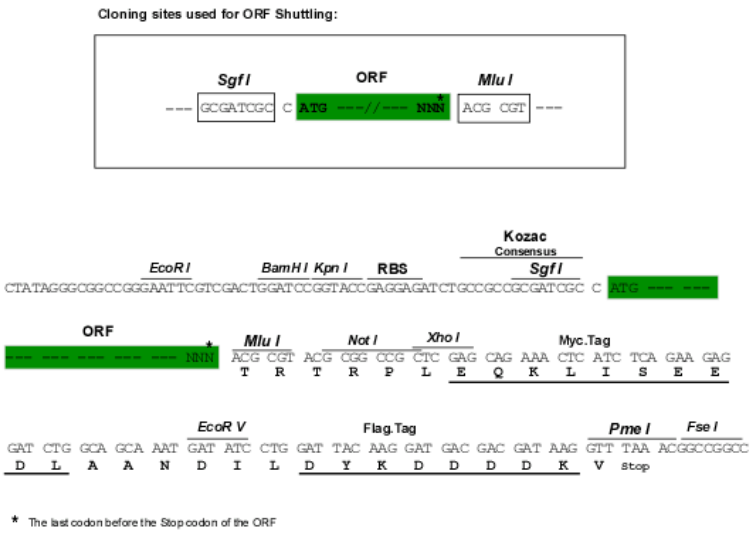
Histone H2A Bbd (H2AFB1) (NM_001017990) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Histone H2A Bbd (H2AFB1) (NM_001017990) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Histone H2A Bbd
Synonyms:	H2A.B; H2A.Bbd; H2AFB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216020 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCCGAGGAGGAGGAGACGCCGAGGGTCCTCCGGTGCTGGCGGCCGGGGGCGGACCTGCTCTCGCACCG TCCGAGCGGAGCTTTCGTTTTCAGTGAGCCAGGTGGAGCGCAGTCTACGGGAGGGCCACTACGCTCAGCG CCTGAGTCGCACGGCGCCGGTCTACCTCGCTGCGGTTATTGAGTACCTGACGGCCAAGGTCCTGGAGCTG GCGGGCAACGAGGCCCAGAACAGCGGAGAGCGGAACATCACTCCCCTGCTGCTGGACATGGTGGTTCACA ACGACAGGCTACTGAGCACCCTTTTCAACACGACCACCATCTCTCAAGTGGCCCCTGGCGAGGAC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC216020 protein sequence Red=Cloning site Green=Tags(s) MPRRRRRRGSSGAGGRGRTCSRTVRAELSFSVSQVERSLREGHYAQRLSRTAPVYLAAVIEYLTAKVLEL AGNEAQNSGERNITPLLLDMVVHNDRLLSTLFNTTTISQVAPGED TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6468_f06.zip
Restriction Sites:	SgfI-MluI

View online »

Cloning Scheme:



ACCN:	NM_001017990
ORF Size:	345 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_001017990.1, NP_001017990.1
RefSeq Size:	517 bp
RefSeq ORF:	348 bp
Locus ID:	474382

UniProt ID: P0C5Y9

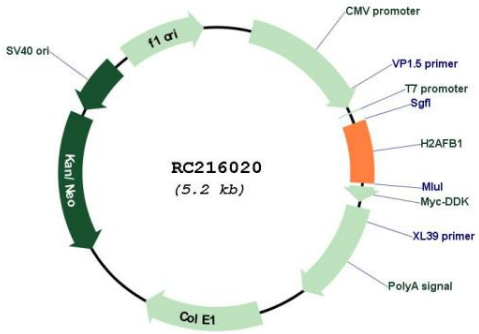
Cytogenetics: Xq28

Protein Pathways: Systemic lupus erythematosus

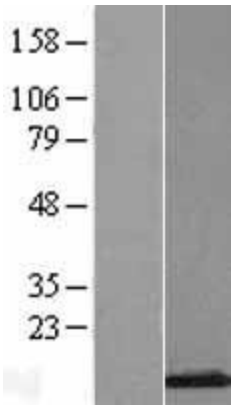
MW: 12.7 kDa

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 H2A family. This gene is part of a region that is repeated three times on chromosome X, once in intron 22 of the F8 gene and twice closer to the Xq telomere. This record represents the most centromeric copy which is in intron 22 of the F8 gene. [provided by RefSeq, Oct 2015]

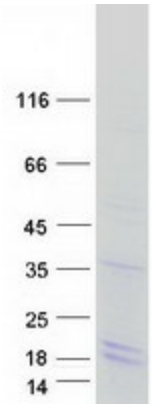
Product images:



Circular map for RC216020



Western blot validation of overexpression lysate (Cat# [LY422229]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216020 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified H2AFB1 protein (Cat# [TP316020]). The protein was produced from HEK293T cells transfected with H2AFB1 cDNA clone (Cat# RC216020) using MegaTran 2.0 (Cat# [TT210002]).