HIST2H2BE cDNA Clone – Histone Cluster 2, H2be (Human)

PRODUCT OVERVIEW

Product Name	HIST2H2BE, cDNA Clone
Full Product Name	HIST2H2BE cDNA Clone
Product Gene Name	HIST2H2BE cdna clone
Sequence	ATGCCTGAAC CTGCTAAGTC CGCTCCGGCC CCTAAAAAGG GCTCCAAGAA AGCCGTCACC AAAGCCCAGA AGAAAGACGG CAAGAAGCGC AAGCGCAGCC GCAAAGAGAG CTACTCCATC TACGTGTACA AGGTGCTGAA GCAGGTCCAC CCCGACACCG GCATCTCGTC CAAGGCCATG GGCATCATGA ACTCCTTCGT CAACGACATC TTCGAGCGCA TCGCGGGAGA GGCTTCCCGC CTGGCGCACT ACAACAAGCG CTCCACCATC ACATCCCGCG AGATCCAGAC GGCCGTGCGC CTGCTGCTGC CCGGCGAGCT GGCCAAGCAC GCCGTGTCCG AGGGCACCAA GGCGGTCACC AAGTACACCA GCTCCAAGTG A
Molecular Weight	13,920 Da
OMIM	601831
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for HIST2H2BE cdna clone	MBS1274431 is a cDNA clone targeting HIST2H2BE.
Other Notes	Small volumes of HIST2H2BE cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HIST2H2BE. It may not necessarily be applicable to this product.

NCBI GI #	109731518
NCBI GeneID	8349
NCBI Accession #	BC096121
UniProt Secondary Accession #	Q4KMY1; Q5QNX0; Q9UE88; A3KMC7; A8K110
UniProt Related Accession #	Q16778
NCBI Official Full Name	Homo sapiens histone cluster 2, H2be, mRNA
NCBI Official Synonym Full Names	histone cluster 2 H2B family member e
NCBI Official Symbol	HIST2H2BE
NCBI Official Synonym Symbols	H2B; H2BQ; GL105; H2B.1; H2BFQ; H2BGL105
UniProt Protein Name	Histone H2B type 2-E
UniProt Synonym Protein Names	Histone H2B-GL105; Histone H2B.q; H2B/q
Protein Family	Histone
UniProt Gene Name	HIST2H2BE

UniProt Synonym Gene Names	H2BFQ; H2B/q
UniProt Entry Name	H2B2E_HUMAN
NCBI Protein Information	histone H2B type 2-E
NCBI Summary for HIST2H2BE	Histones are basic nuclear proteins that are responsible for the 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 encodes a replication-dependent histone that is a member of the histone H2B family, and generates two transcripts through the use of the conserved stem-loop termination motif, and the polyA addition motif. The protein has antibacterial and antifungal antimicrobial activity. [provided by RefSeq, Aug 2015]
UniProt Comments for HIST2H2BE	H2B2E: Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. The nucleosome is a histone octamer containing two molecules each of H2A, H2B, H3 and H4 assembled in one H3-H4 heterotetramer and two H2A-H2B heterodimers. The octamer wraps approximately 147 bp of DNA. Belongs to the histone H2B family. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 1q21.2 Cellular Component: cytoplasm; extracellular space; nucleoplasm; nucleus Molecular Function: DNA binding Biological Process: antibacterial humoral response; defense response to Gram-positive bacterium; innate immune response in mucosa; nucleosome assembly
Research Articles on HIST2H2BE	**1.** analysis of a functional hotspot on ubiquitin that is required for the stimulation of human Dot1
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