HMGB2 cDNA Clone – High-Mobility Group Box 2 (Human)

PRODUCT OVERVIEW

Product Name	HMGB2, cDNA Clone
Full Product Name	HMGB2 cDNA Clone
Product Gene Name	HMGB2 cdna clone
Sequence	atgggtaaag gagaccccaa caagccgcgg ggcaaaatgt cctcgtacgc cttcttcgtg cagacctgcc gggaagagca caagaagaaa cacccggact cttccgtcaa tttcgcggaa ttctccaaga agtgttcgga gagatggaag accatgtctg caaaggagaa gtcgaagttt gaagatatgg caaaaagtga caaagctcgc tatgacaggg agatgaaaaa ttacgttcct cccaaaggtg ataagaaggg gaagaaaaag gaccccaatg ctcctaaaag gccaccatct gccttcttcc tgttttgctc tgaacatcgc ccaaagatca aaagtgaaca ccctggccta tccattgggg atactgcaaa gaaattgggt gaaatgtggt ctgagcagtc agccaaagat aaacaaccat atgaacagaa agcagctaag ctaaaggaga aatatgaaaa ggatattgct gcatatcgtg ccaagggcaa aagtgaagca ggaaagaagg gccctggcag gccaacaggc tcaaagaaga agaacgaacc agaagatgag gaggaggagg aggaataa
Molecular Weight	24,034 Da
OMIM	163906
Vector	pENTR223.1
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for HMGB2 cdna clone	MBS1269635 is a cDNA clone targeting HMGB2.
Other Notes	Small volumes of HMGB2 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 HMGB2. It may not necessarily be applicable to this product.

NCBI GI #	14705263
NCBI GeneID	3148
NCBI Accession #	BC000903
UniProt Secondary Accession #	Q5U072; B2R4K8; D3DP37
UniProt Related Accession #	P26583
NCBI Official Full Name	Homo sapiens high-mobility group box 2, mRNA
NCBI Official Synonym Full Names	high mobility group box 2
NCBI Official Symbol	HMGB2
NCBI Official Synonym Symbols	HMG2
UniProt Protein Name	High mobility group protein B2
UniProt Synonym Protein Names	High mobility group protein 2; HMG-2
Protein Family	High mobility group B protein
UniProt Gene Name	HMGB2

UniProt Synonym Gene Names	HMG2; HMG-2
UniProt Entry Name	HMGB2_HUMAN
NCBI Protein Information	high mobility group protein B2
NCBI Summary for HMGB2	This gene encodes a member of the non-histone chromosomal high mobility group protein family. The proteins of this family are chromatin-associated and ubiquitously distributed in the nucleus of higher eukaryotic cells. In vitro studies have demonstrated that this protein is able to efficiently bend DNA and form DNA circles. These studies suggest a role in facilitating cooperative interactions between cis-acting proteins by promoting DNA flexibility. This protein was also reported to be involved in the final ligation step in DNA end-joining processes of DNA double-strand breaks repair and V(D)J recombination. [provided by RefSeq, Jul 2008]
UniProt Comments for HMGB2	HMGB2: DNA binding proteins that associates with chromatin and has the ability to bend DNA. Binds preferentially single-stranded DNA. Involved in V(D)J recombination by acting as a cofactor of the RAG complex. Acts by stimulating cleavage and RAG protein binding at the 23 bp spacer of conserved recombination signal sequences (RSS). Belongs to the HMGB family. Protein type: Nuclear receptor co-regulator; DNA-binding Chromosomal Location of Human Ortholog: 4q31 Cellular Component: cell; condensed chromosome; cytoplasm; extracellular space; nuclear chromatin; nucleolus; nucleoplasm; nucleus; perinuclear region of cytoplasm; protein complex Molecular Function: chemoattractant activity; damaged DNA binding; DNA bending activity; DNA binding; double-stranded DNA binding; drug binding; four-way junction DNA binding; protein binding; RAGE receptor binding; single-stranded DNA binding; transcription factor activity; transcription factor binding Biological Process: defense response to Gram-negative bacterium; defense response to Gram-positive bacterium; DNA fragmentation during apoptosis; DNA geometric change; DNA ligation during DNA repair; DNA topological change; inflammatory response to antigenic stimulus; negative regulation of transcription, DNA-dependent; positive regulation of DNA binding; positive regulation of endothelial cell proliferation; positive regulation of erythrocyte differentiation; positive regulation of megakaryocyte differentiation; positive regulation of nuclease activity; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent; regulation of neurogenesis; regulation of transcription from RNA polymerase II promoter; response to drug; response to lipopolysaccharide; V(D)J recombination
Research Articles on HMGB2	**1.** Lrp1-antisense directly binds to high-mobility group box 2 (Hmgb2) and inhibits the activity of Hmgb2 to enhance Srebp1a-dependent transcription of Lrp1.
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