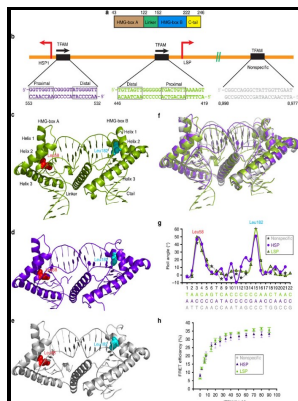


# Structure and DNA binding of HMG boxes

University of Portsmouth, School of Biological Sciences - Structure of a complex of tandem HMG boxes and DNA



Description: -

-Structure and DNA binding of HMG boxes

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Tags: #Structure #of #a #Complex #of #Tandem #HMG #Boxes #and #DNA

## Solution structure of a DNA

This work was supported by a grant from the National Institutes of Health AI44110 to J. HMG-D is a sequence-non-specific DNA binding protein of *Drosophila melanogaster*.

## Solution structure of a DNA

The other principal difference is that DNA bending by the NSS DBDs is driven almost entirely by the electrostatic component of the binding energy, while DNA bending by SS DBDs is driven mainly by the non-electrostatic component. PhosphoSitePlus i This section provides information on the expression of a gene at the mRNA or protein level in cells or in tissues of multicellular organisms. In addition, LCP1 is more highly expressed than Tox in skin, consistent with isolation of LCP1 from Langerhans cells.

## TOX defines a conserved subfamily of HMG

Biochimica et Biophysica Acta BBA - Gene Regulatory Mechanisms 2015, 1849 6 , 677-687. Identification of TOX subfamily predicted proteins in pufferfish and mosquito.

## DNA Bend Angle and Binding Affinity of an HMG Box Increased by the Presence of Short Terminal Arms

In contrast, the known HMGB binding site sizes are considerably shorter, from 8 bp for HMGBD to 12 bp for LEF1 ,,. It binds specifically to the autonomously replicating sequence 1 ARS1. A Graphical representation of an unfiltered BLAST alignment comparing TOX and LCP1 proteins.

## The crystal structure of the Sox4 HMG domain

Solution structure and DNA binding property of the fifth HMG box domain in comparison with the first HMG box domain in human

## **upstream binding factor**

The basic extensions of both categories of HMG box play a similar role in DNA binding and bending, making solely electrostatic interactions with the DNA.

### **Solution Structure and DNA Binding Property of the Fifth HMG Box Domain in Comparison with the First HMG Box Domain in Human Upstream Binding Factor,**

For the His 6-tagged proteins, EDTA was omitted from buffers, and the proteins were eluted from the Ni<sup>2+</sup>-NTA resin using imidazole.

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