

E-Box Elements

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Recent Publications on E-Box Elements:

- [Differential binding of quadruplex structures of muscle-specific genes regulatory sequences by MyoD, MRF4 and myogenin.](#)
Four myogenic regulatory factors (MRFs); MyoD, Myf-5, MRF4 and Myogenin... 13th August, 2008
Department of Biochemistry, Rappaport Faculty of Medicine, Technion -- *Nucleic Acids Res.* 2008 Jul;36(12):3916-25. Epub 2008 May 29. ([DOI Direct Link](#))
- [Human mismatch repair gene, MLH1, is transcriptionally repressed by the hypoxia-inducible transcription factors, DEC1 and DEC2.](#)
Tumor hypoxia has been reported to cause a functional loss in DNA mismatch... 13th August, 2008
Department of Translational Cancer Research, Research Institute for- *Oncogene.* 2008 Jul 10;27(30):4200-9. Epub 2008 Mar 17. ([DOI Direct Link](#))
- [Cis-acting elements \(E-box and NBE\) in the promoter region of three maternal genes \(Histone H1oo, Nucleoplasmin 2, and Zygote Arrest 1\) are required for oocyte-specific gene expression in the mouse.](#)
We examined the promoter activities of three mouse maternal genes (H1oo,... 7th August, 2008
Department of Genetic Engineering, Kinki University, Kinokawa, Wakayama,- *Mol Reprod Dev.* 2008 Jul;75(7):1104-8. ([DOI Direct Link](#))
- [The bHLH/Per-Arnt-Sim transcription factor SIM2 regulates muscle transcript myomesin2 via a novel, non-canonical E-box sequence.](#)
Despite a growing number of descriptive studies that show Single-minded 2... 22nd July, 2008
School of Molecular & Biomedical Science (Biochemistry) and the Centre for- *Nucleic Acids Res.* 2008 Jun;36(11):3716-27. Epub 2008 May 14. ([DOI Direct Link](#))
- [Evidence for an overlapping role of CLOCK and NPAS2 transcription factors in liver circadian oscillators.](#)
The mechanisms underlying the circadian control of gene expression in... 20th June, 2008
Dipartimento di Biochimica e Biologia Molecolare, Universita di Ferrara,- *Mol Cell Biol.* 2008 May;28(9):3070-5. Epub 2008 Mar 3. ([DOI Direct Link](#))
- [Beta-catenin interacts with MyoD and regulates its transcription activity.](#)
Wnt regulation of muscle development is thought to be mediated by the... 20th June, 2008
Program of Developmental Neurobiology, Institute of Molecular Medicine and- *Mol Cell Biol.* 2008 May;28(9):2941-51. Epub 2008 Mar 3. ([DOI Direct Link](#))
- [Microphthalmia-associated transcription factor regulates RAB27A gene expression and controls melanosome transport.](#)
Melanosomes are lysosome-related organelles specialized in melanin... 20th June, 2008
INSERM U895, Biologie et Pathologies des Cellules Melanocytaires de la- *J Biol Chem.* 2008 May

- 2;283(18):12635-42. Epub 2008 Feb 15. ([DOI Direct Link](#))
- [Identification of two E-boxes that negatively modulate the activity of MyoD on the alpha-sarcoglycan core promoter.](#)
*The alpha-SG promoter is composed of a plethora of cis-regulatory...*20th June, 2008
 Unidad de Investigacion Medica en Genetica Humana, Hospital de Pediatria,- Biochim Biophys Acta. 2008 Jan;1779(1):74-80. Epub 2007 Dec 3. ([DOI Direct Link](#))
 - [Binding of upstream stimulatory factor 1 to the E-box regulates the 4G/5G polymorphism-dependent plasminogen activator inhibitor 1 expression in mast cells.](#)
*BACKGROUND: Plasminogen activator inhibitor (PAI)-1 is a key regulator of...*18th June, 2008
 Division of Allergy and Immunology, Department of Pediatrics, Harbor-UCLA- J Allergy Clin Immunol. 2008 Apr;121(4):1006-1012.e2. Epub 2008 Jan 30. ([DOI Direct Link](#))
 - [Inhibition of CCN6 \(Wnt-1-induced signaling protein 3\) down-regulates E-cadherin in the breast epithelium through induction of snail and ZEB1.](#)
*The cysteine-rich protein CCN6 [or Wnt-1-induced signaling protein 3...*15th May, 2008
 Department of Pathology, University of Michigan Medical School, 1150 W.- Am J Pathol. 2008 Apr;172(4):893-904. Epub 2008 Mar 5. ([DOI Direct Link](#))
 - [A direct repeat of E-box-like elements is required for cell-autonomous circadian rhythm of clock genes.](#)
*BACKGROUND: The circadian expression of the mammalian clock genes is based...*3rd April, 2008
 Osaka Bioscience Institute, Suita, Osaka 565-0874, Japan.- BMC Mol Biol. 2008 Jan 4;9:1. ([DOI Direct Link](#))
 - [Detection of a circadian enhancer in the mDbp promoter using prokaryotic transposon vector-based strategy.](#)
*In mammals, the expression of 5-10% of genes occurs with circadian...*19th March, 2008
 Department of Cell Biology and Neuroscience, Osaka University Graduate- Nucleic Acids Res. 2008 Mar;36(4):e23. Epub 2008 Feb 5. ([DOI Direct Link](#))
 - [Drosophila Myc is required for normal DREF gene expression.](#)
*The Drosophila DNA replication-related element-binding factor (dDREF) is...*27th February, 2008
 Department of Applied Biology, Kyoto Institute of Technology, Matsugasaki,- Exp Cell Res. 2008 Jan 1;314(1):184-92. Epub 2007 Sep 29. ([DOI Direct Link](#))
 - [Elucidation of the structural determinants responsible for the specific formation of heterodimeric Mxd1/Max b-HLH-LZ and its binding to E-box sequences.](#)
*The proteins of the Mxd family (formally known as Mad) are antagonists of...*5th February, 2008
 Departement de Pharmacologie, Faculte de medecine et des sciences de la- J Mol Biol. 2008 Feb 8;376(1):141-52. Epub 2007 Nov 28. ([DOI Direct Link](#))
 - [Activation of human period-1 by PKA or CLOCK/BMAL1 is conferred by separate signal transduction pathways.](#)
*Circadian clocks are self-sustained biochemical oscillators that...*7th December, 2007
 IPF PharmaCeuticals GmbH, Hannover, Germany.- Chronobiol Int. 2007;24(5):783-92. ([DOI Direct Link](#))

E-Box Elements Patents:



- 7378274- [Regulatory nucleic acid for the ABC1 gene, molecules modifying its activity and therapeutic uses](#)

- 6452066- [GENOMIC DNA FRAGMENTS CONTAINING REGULATORY AND CODING SEQUENCES FOR THE .beta.2-SUBUNIT OF THE NEURONAL NICOTINIC ACETYLCHOLINE RECEPTOR AND TRANSGENIC ANIMALS MADE USING THESE FRAGMENTS OR MUTATED FRAGMENTS](#)
- 6379894- [Method for screening compounds capable of inhibiting binding between the transcription factor of STAT1 and the transcription factor of USF1](#)
- 6309876- [Neuron promoter and uses](#)
- 6177242- [Genomic DNA fragments containing regulatory and coding sequences for the .beta.2-subunit of the neuronal nicotinic acetylcholine receptor and transgenic animals made using these fragments or mutated fragments](#)
- 6017727- [Syndecan enhancer element and syndecan stimulation of cellular differentiation](#)
- 6000772- [Tubulin promoter regulates gene expression in neurons](#)
- 5969210- [Methods for the characterization of compounds which stimulate STF-1 expression in pancreatic islet cells](#)
- 5849493- [Screening assay for compounds stimulating somatostatin transcription factor -1 binding to an STF-1 binding site](#)
- 6455754- [GENOMIC DNA FRAGMENTS CONTAINING REGULATORY AND CODING SEQUENCES FOR THE .beta.2-SUBUNIT OF THE NEURONAL NICOTINIC ACETYLCHOLINE RECEPTOR AND TRANSGENIC ANIMALS MADE USING THESE FRAGMENTS OR MUTATED FRAGMENTS](#)
- 6476188- [Clock gene and methods of use thereof](#)
- 6492344- [Syndecan enhancer element and syndecan stimulation of cellular differentiation](#)
- 7322810- [Method for identifying compounds that inhibit the activity of Myc](#)
- 7294463- [Method of screening for compounds that modulate activity of a regulatory sequence of the .beta.-2 subunit of a neuronal nicotinic acetylcholine receptor](#)
- 7250496- [Bioinformatically detectable group of novel regulatory genes and uses thereof](#)
- 7053121- [Compositions and methods for regulating circadian rhythms](#)
- 6984517- [AAV5 vector and uses thereof](#)
- 6977150- [Process and compositions for peptide, protein and peptidomimetic synthesis](#)
- 6855314- [AAV5 vector for transducing brain cells and lung cells](#)
- 6777236- [Process for producing a neuronal host cell in vitro comprising regulatory sequences of the .beta.2-subunit of the neuronal nicotinic acetylcholine receptor](#)
- 5661032- [T.alpha.1 .alpha.-tubulin promoter and expression vectors](#)

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