

Supporting Information

The poly(C) motifs in the proximal promoter region of D-box binding protein (Dbp) drives its high-amplitude oscillation.

Paul Kwangho Kwon¹, Hyo-Min Kim², Sung Wook Kim², Byunghee Kang², Hee Yi³, Hyun-Ok Ku³, Tae-Young Roh^{1,2}, and Kyong-Tai Kim^{1,2}

¹Department of Life Sciences, Pohang University of Science and Technology, Pohang, Gyeongbuk 37673, Republic of Korea.

²Division of Integrative Biosciences and Biotechnology, Pohang University of Science and Technology, Pohang, Gyeongbuk 37673, Republic of Korea.

³Vet Drugs and Biologics Division, Animal and Plant Quarantine Agency, 177, Hyeoksin 8-ro, Gimcheon-si, Gyeongsangbuk-do 39660, Republic of Korea

* To whom correspondence should be addressed. Tel: +82 54 279 2297; Fax: +82 54 279 2199; Email: ktk@postech.ac.kr

This PDF file includes:

Supporting text
Tables S1 to S3

Table S1. Specific primers for qPCR

Mouse Bmal1	F	5'-GCA GTG CCA CTG ACT ACC AAG A-3'
	R	5'-TCC TGG ACA TTG CAT TGC AT-3'
Mouse Per2	F	5'-ATGCTCGCCATCCACAAGA-3'
	R	5'-GCGGAATCGAATGGGAGAAT-3'
Mouse Rev-erba	F	5'-CTG GAG GGC TGC AGT ATA GC-3'
	R	5'-GTC CAG GGT CGT CAT GTC TT-3'
Mouse Dbp	F	5'-AAT GAC CTT TGA ACC TGA TCC CGC T-3'
	R	5'-GCT CCA GTA CTT CTC ATC CTT CTG T-3'
Mouse Cry1	F	5'-TCC GCT GCG TCT ATA TCC TC-3'
	R	5'-ATT TCC CAG GCT TTT CAA GG-3'
Mouse Tbp	F	5'-CAG CCT TCC ACC TTA TGC TC-3'
	R	5'-TTG CTG CTG CTG TCT TTG TT-3'
Mouse Ror β	F	5'-GGC AGA CCC ACA CCT ACG A-3'
	R	5'-CAG AGC CTC CCT GGA CTT G-3'

Table S2. List of ChIP qPCR primers

Gapdh promoter	F	5'-GAT TAC GGG ATG GGT CTG AA-3'
	R	5'-GCT GCA CCT CTG GTA ACT CC-3'
DBP_pro	F	5'-TCC GGT GTT TTG GTT TAG ATT TT-3'
	R	5'-AGG AGG AGG TGG CAG C-3'
Camk2 α	F	5'-ATG TTT CCA GGG TCC TCG AG-3'
	R	5'-CAA GAC CTG GGA ACG CAA AT-3'

Table S3. List of ATAC-qPCR primers

Gapdh promoter	F	5'-GAT TAC GGG ATG GGT CTG AA-3'
	R	5'-GCT GCA CCT CTG GTA ACT CC-3'
Poly(C) region	F	5'-GTA CCC CTC TTG CCC CAC-3'
	R	5'-TGA GGG GCT GAA CTT GTG TA-3'
Dbp_Exon4	F	5'-AGA GTA CCG ACT GTT CTT CCG-3'
	R	5'-GCT TTA TTG TGC CCC TAG TGT-3'