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Supplementary File 6. Transcription factors (TFs) predicted to bind vertebrate uCNE or dCNE and *Ciona* CNE (ciCNE). Total TFs predicted to bind each element are shown in brackets for each element in 9A. Counts for different TF subsets are shown in part B.

Figure S10 A

Transcription Factor	dCNE (59TFs)	uCNE (40 TFs)	<i>ciona</i> CNE (60 TFs)
Arid3a	✓	✓	✓
FOXD1	✓	✓	✓
FOXG1	✓	✓	✓
FOXI1	✓	✓	✓
Foxj2	✓	✓	✓
FOXL1	✓	✓	✓
FOXN3	✓	✓	✓
FOXO3	✓	✓	✓
FOXO4	✓	✓	✓
FOXO6	✓	✓	✓
LBX1	✓	✓	✓
LMX1A	✓	✓	✓
Nr2e3	✓	✓	✓
PAX3	✓	✓	✓
PAX7	✓	✓	✓
Sox5	✓	✓	✓
ATF3	✓	✓	
CEBPG	✓	✓	
Creb5	✓	✓	
Dux	✓	✓	
FOSB::JUN	✓	✓	
FOSB::JUNB(var.2)	✓	✓	
FOSL2::JUN(var.2)	✓	✓	
JDP2(var.2)	✓	✓	
JUNB(var.2)	✓	✓	
MEIS1	✓	✓	
NFATC2	✓	✓	
Dlx2	✓		✓
DLX5	✓		✓

DRGX	✓		✓
EN1	✓		✓
HOXC9	✓		✓
ISX	✓		✓
LHX5	✓		✓
LHX9	✓		✓
MSX2	✓		✓
Msx3	✓		✓
OLIG1	✓		✓
PROP1	✓		✓
PRRX1	✓		✓
PRRX2	✓		✓
Shox2	✓		✓
TLX2	✓		✓
BARX1	✓		
BSX	✓		
DLX6	✓		
DUX4	✓		
ESRRB	✓		
Esrrg	✓		
FOXP3	✓		
IRF6	✓		
JDP2	✓		
LIN54	✓		
MEF2B	✓		
MEF2D	✓		
MSX1	✓		
Nobox	✓		
PAX4	✓		
SHOX	✓		
Ahr::Arnt		✓	✓
HOXD3		✓	✓
TBX15		✓	✓
CEBPB		✓	
HOXB8		✓	
HOXD8		✓	

PBX1	✓	
PITX1	✓	
PITX2	✓	
TBX1	✓	
TBX21	✓	
TBX4	✓	
ZNF652	✓	
Bhlha15		✓
BHLHE22		✓
CUX1		✓
CUX2		✓
EMX1		✓
GATA3		✓
HOXA13		✓
HOXA2		✓
HOXB4		✓
HOXB5		✓
HOXB9		✓
HOXC12		✓
HOXC13		✓
HOXD4		✓
Lhx4		✓
LMX1B		✓
NEUROG1		✓
NEUROG2		✓
NKX6-1		✓
Nr2e1		✓
OLIG2		✓
PDX1		✓
POU3F4		✓
VSX1		✓
VSX2		✓

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Figure S10.B

TF Subset

Count

dCNE-uCNE shared	27
ciCNE - dCNE shared	32
ciCNE - uCNE shared	19
<hr/>	
only in dCNE & uCNE	11
only in dCNE & ciCNE	16
only in uCNE & ciCNE	3
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only in dCNE	16
only in uCNE	10
only in ciCNE	25