

Consensus G-GCATAACTAGCTAAAGAATTCACAAATGTTGGATAACCTCCAGCCCTCTGACTGTATGCAAAGCA--GGGGGCC TGAATGAGAGCATTGTGTTATAAAAACCTTAA-CTGGAGCAAGACT

Pax2
TNGTCA^C_TGCC^A_GTGA
SoxB1
ATTGTG

CACAAAT
SoxB1

Human GGGCATAACTAGCCAAAGAATTCACAAATGTTGGATAACCTCCAGCCCTCTGACTGTATGCAAAGTA--GGAGGCC TGAATGAGAGCATTGTGTTATAAAAACCTTAACTGGAGCAAGACT
Mouse CAGCATAGCTGGCTAAAGAATTCACAAATGTTGGATAACCTCCAGCCCTCTGACTGTATGCAAAGCA--GGGGGCC TGAATGAGAGCATTGTGTTCTAAAACCTTAGGCTGGAGCAAGACT
Chick GCG---AACCATCTTAAGGCTTTCTCAGTGTGAACAACCTCCGCCCTCCGACTGTATGCAAAGCGAGGGGGGCC TGAATAAGAGCATTGTGCTACAGGAGCTTACGTGGAGCAAGACT

Consensus -AA-AAGCCCAATCTCTCTGGTTATTTGGA-----CATTCAAATGCTGTC TAAGAGAAAAGAACTCATTATGACTCAGT TCCGTAAATTAGACGTAAAT TACCACTTTTGT---CC

Gata
A^A_TGATA^A_G
SoxB1
ATTGTG

C^T_TTATC^T_A
Gata

Human TAAAAGCCCAATCTCTCTGGTTATTTGGA-----CATTCAAATGCTGTC TAAGAGAAAAGAACTCATTATGACTCAGT TCCGTAAATTAGACGTAAAT TACCACTTTTGT---CT
Mouse CAA-AAGCCCAATCTCTCTGGTTATTTGGA-----CATTCAAATGCTGTC TAAGAGAAAAGAACTCATTATGACTCAGT TCCGTAAATTAGAAGTAAAT TACCACTTTTGT---CC
Chick -AG-AAGCCCAATTTTGTCTGGTTATTTGGAAATTTAGCATTCAAACCATGTC TGAAAAGAAAAGAACTCATTATGACTCAGT TCCGTAAATTAGACGTAAAT TACTGCTTTTGTAGTCCCC

Consensus AATACAAAAGGTAAGGGAACCTCTGCAAGACCAGAGGAT-CAGAAATCTAATGAGATGAGAGCATAGGCTGGAACGG-GGTGAACACAAGAACCCATTCAAC-AG-G-G---C-CC

Gata
A^A_TGATA^A_G

TCA^C_TGCC^A_GTGACNA
Pax2

CACAAAT
SoxB1

Human GATACAAAAGGTAAGGGAACCTCTGCAAGACCAGAGGATCTGAAATCTAATGAGATGAGAGCATAGGCTGA- AACTG-AGTGAACACAAGAACCCATTCAAC TAGAGGCAAGCCC
Mouse AATACAAAAGGTAAGGGAACCTCTGCAAGACCAGAGGATCTGAAATCTAATGAGATGAGAGCATAGGCTGGAACGG-GGTGAACACAAGAACCCATTCAAGAGGGAGGCCCTCC
Chick AGCACAAGGTAAGGTAACAGGAGTTCTGCAAGACCAGAGGATCTGAAATCTAATGAGATGAGAGCATAGGCTGGAAGGGTGGGGGCACAAGGCCCATTTGAGCCCTCTGTGCACA

Supplementary Figure 1. ClustalW alignment of human, mouse and chicken *N-Cadherin* En2-DP enhancer sequences.

Shaded bases are conserved across all three species, as reflected in the consensus enhancer sequence. The consensus is annotated with putative conserved transcription factor binding sites: those above the consensus are encoded on the sense strand, whereas those below are encoded on the anti-sense strand. Shaded bases within the annotated binding sites are conserved across all three species. The lightly-shaded box indicates the position of a putative paired Pax2/SoxB1 recognition site, reminiscent of the chicken *delta-Crystallin* (DC5) and *Sox2* (N3) enhancers, which are synergistically activated by Pax6 and Sox2 in the lens placode.