Supplementary information

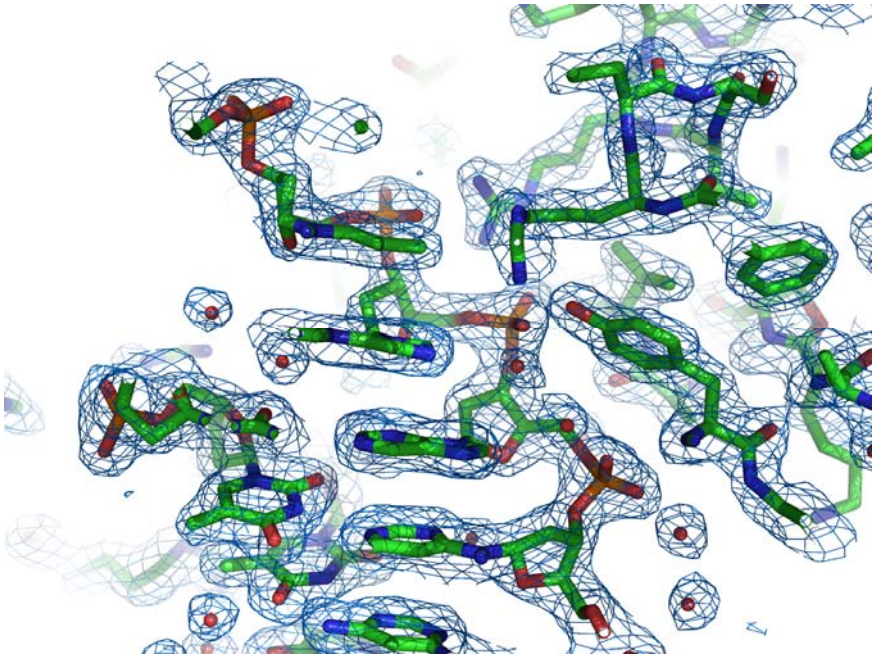
Figure legends

Fig. S1. Final election density map and the overall structure of the HNF4α-DBD/DNA complex superimposed with other related NR-DBD/DNA complexes. (A) A representative 2Fo-Fc map showing the protein-DNA interactions. The map was contoured at the 1σ level. (B) Superposition of HNF4α-DBD/DNA complex and the related nuclear receptors whose DNA complex crystal structures are available. Only monomeric structures are shown for clarity. PDB accession codes for the structures used in this figure are: HNF4α (3CBB), RXR (1BY4), RAR (1DSZ), EcR (1R0N), VDR (1YNW), TR (2NLL), LRH1 (2A66), ER (1HCQ), ERR2 (1LO1), Rev-Erb (1HLZ), and PR (2C7A).

Fig. S2. Superposition of the upstream and downstream HNF4α-DBD monomers. Notable differences are only seen at a solvent-exposed residue (M84) within the long linker between helix I and helix II due to different crystal contacts. Uneven DNA bending is also believed to result from different crystal packing environment.

Figure S1

(A)



(B)

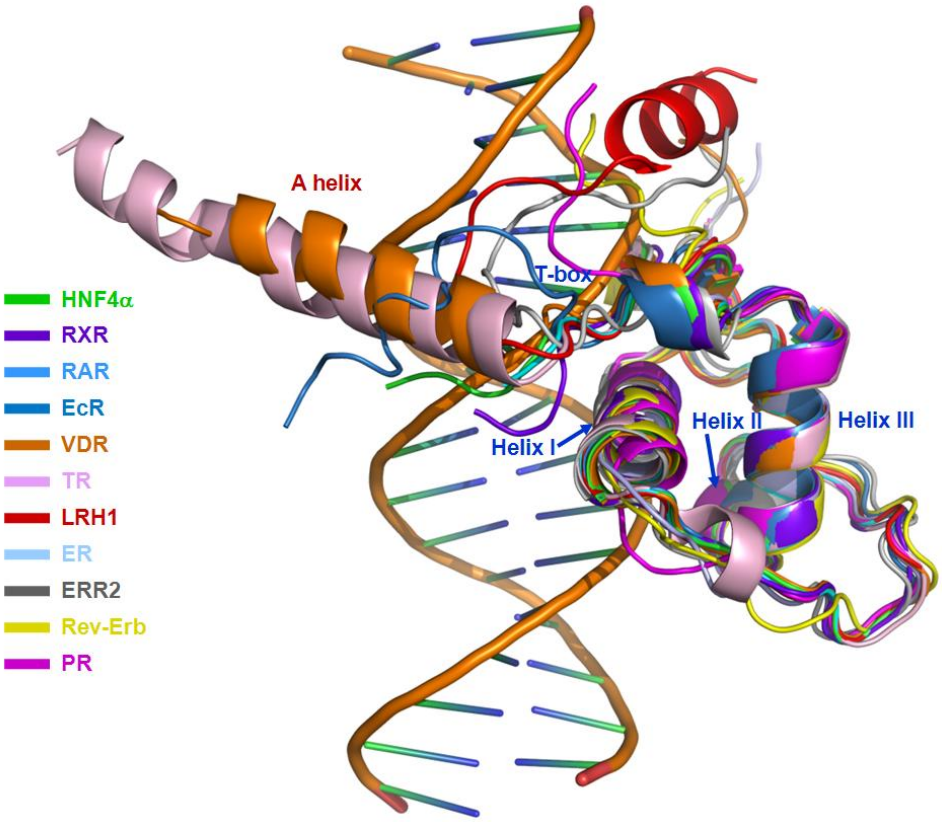

A helix
T-box
Helix I
Helix II
Helix III
HNF4α
RXR
RAR
EcR
VDR
TR
LRH1
ER
ERR2
Rev-Erb
PR

Figure S2