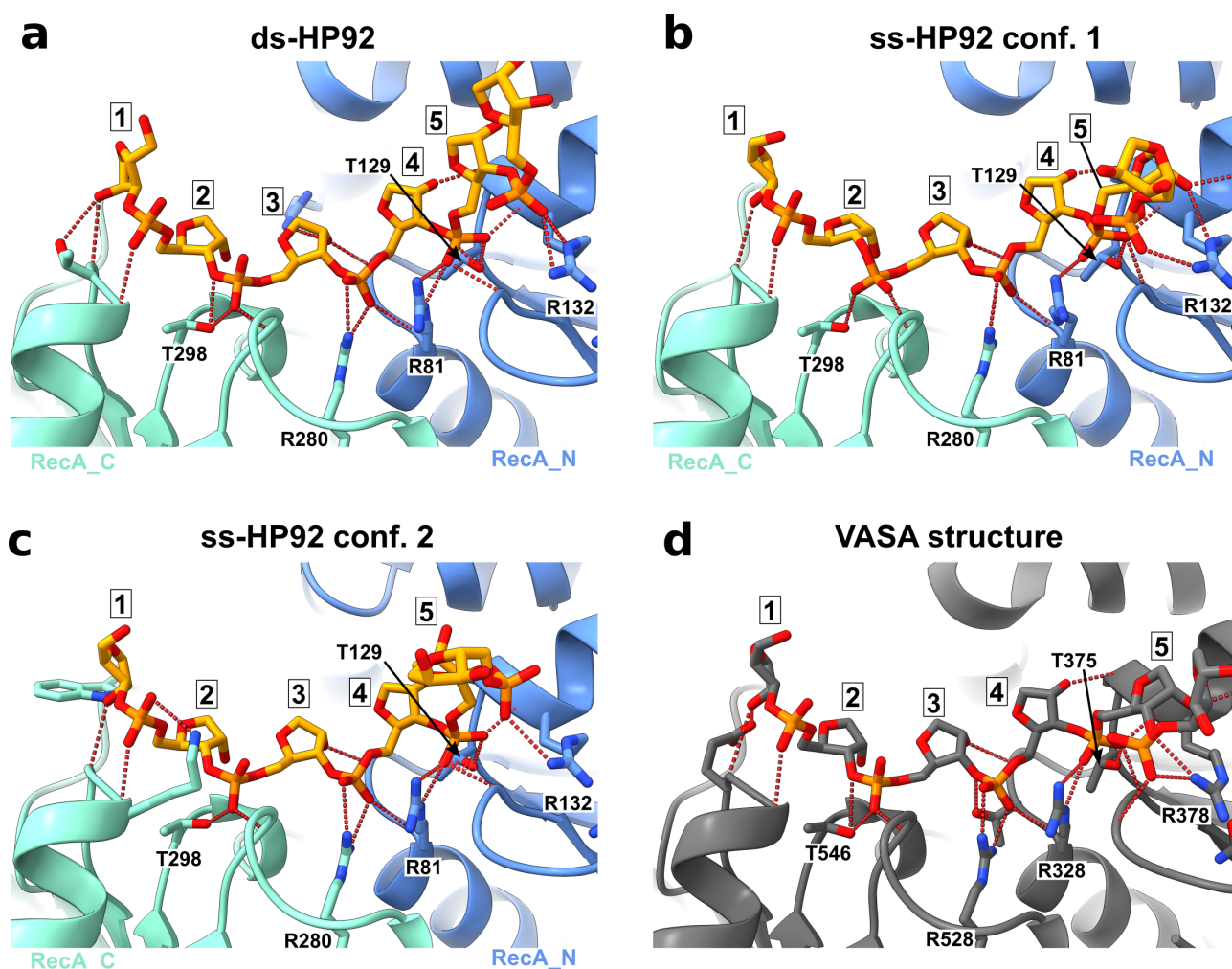




Supplementary Fig. 11: Recognition of the RNA backbone of nt 1-5 for DbpA and VASA.

Comparison of the recognition of nt in position 1-5 for the DbpA/ds-HP92 complex (chains B/D) (a), DbpA/ss-HP92 complex in conformation 1 (chains L/I) (b) and conformation 2 (chains A/C) (c) and in the VASA/RNA complex (chains D/H) (d). Only the RNA backbone is shown for clarity. Hydrogen bonds between RNA and protein are indicated by dashed red lines. The nucleotides are numbered 1-5. Protein side chains that contribute important interactions are labeled: R81/R328 are part of the conserved DEAD-box motif Ia (Sengoku et al., 2006), T129/T375 (DbpA/VASA) and R132/R378 (DbpA/VASA) are part of the conserved DEAD-box motif Ib (Sengoku et al., 2006), R280/R528 (DbpA/VASA) are part of the QxxR motif (Sengoku et al., 2006), T546/T298 (DbpA/VASA) are part of motif (Sengoku et al., 2006).