

Supplementary Data

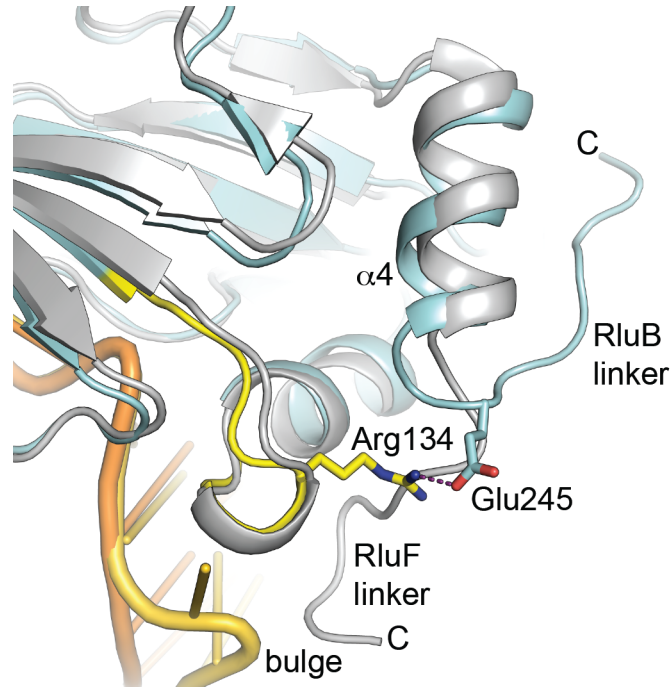
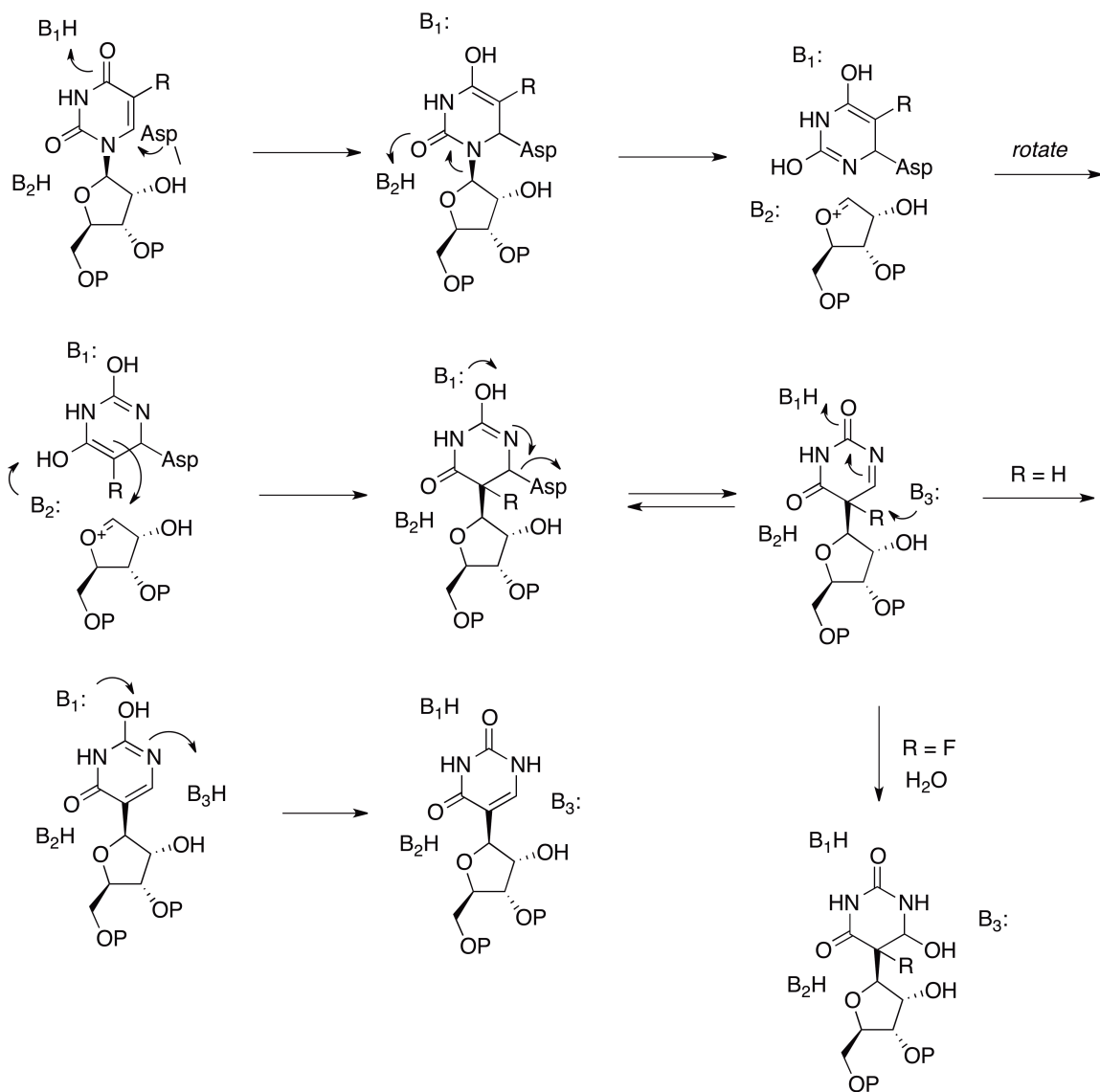


Figure S1. Overlay of the RluB and RluF RNA complexes in the vicinity of the bulge. RluB and its RNA substrate are in blue-green and gold, respectively. RluF and its RNA substrate are grey and orange, respectively. The $\alpha 1$ - $\beta 4$ linking residues 131-138 in RluB are highlighted in yellow. In RluB Arg134 hydrogen bonds to Glu245, reinforcing a hairpin turn that directs the chain away from the bulge-binding site.



Scheme S1. Proton transfers during Ψ formation