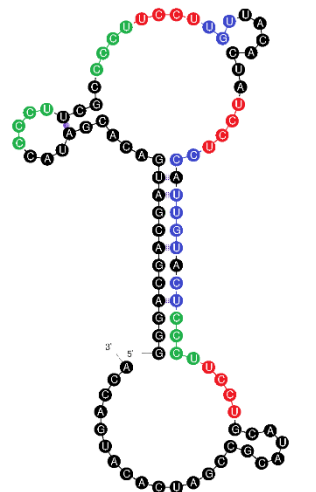
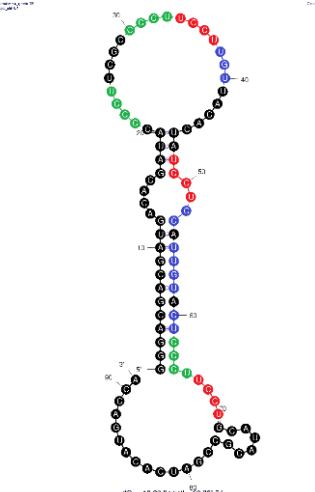
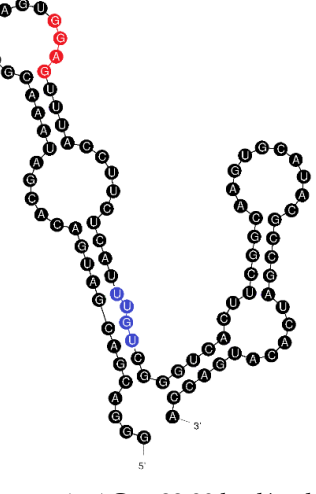
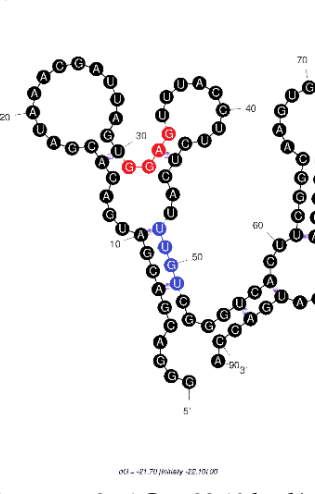
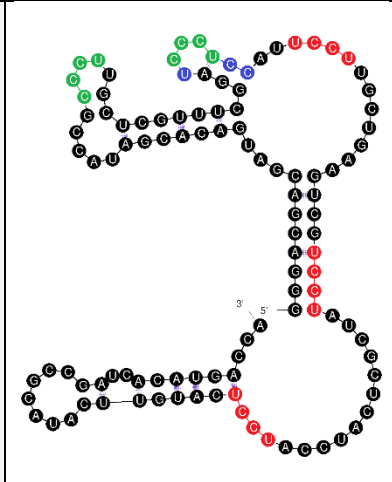
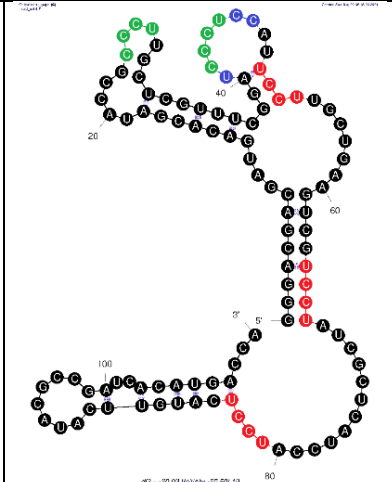
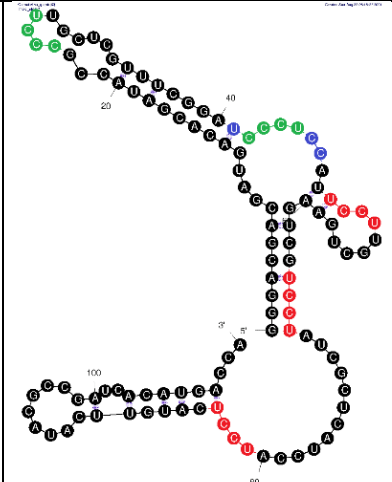
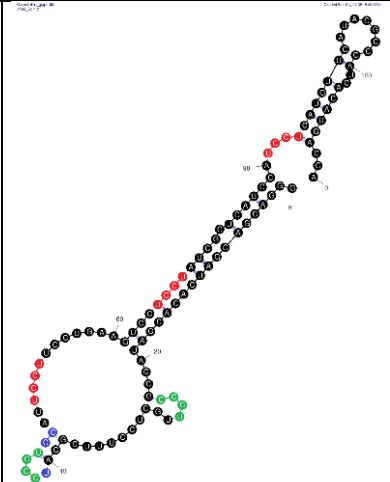
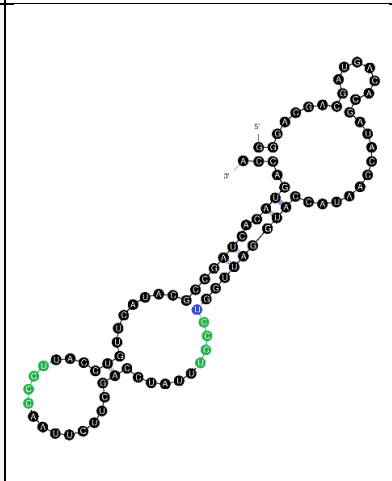
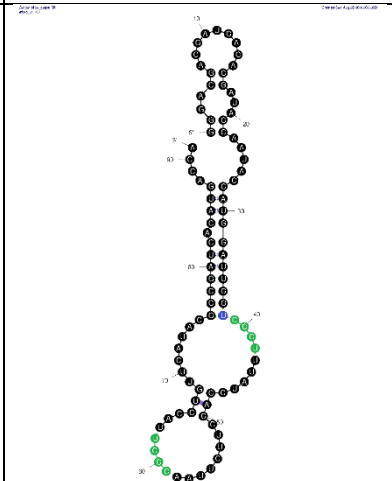
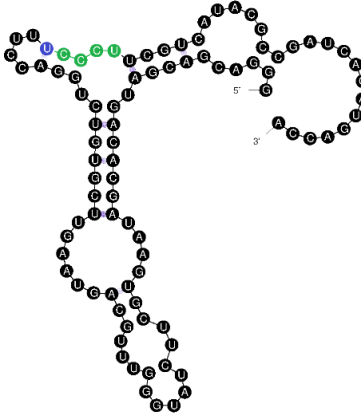
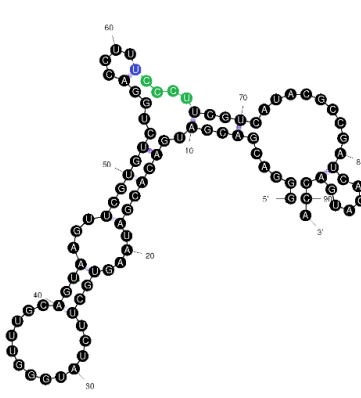

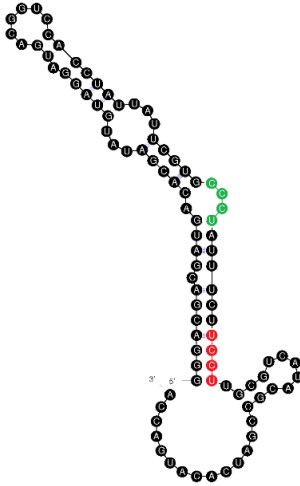
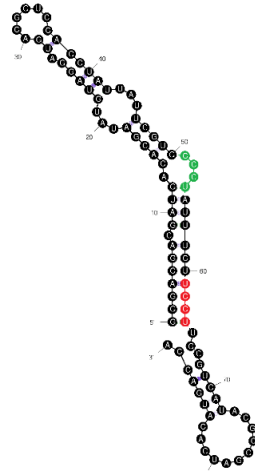
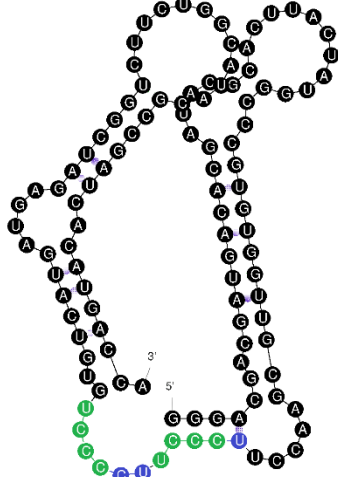
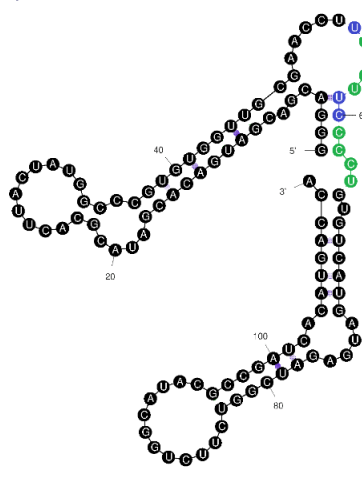
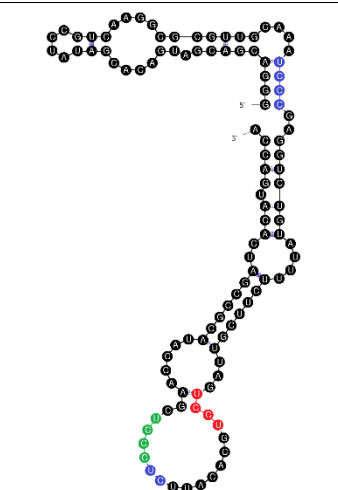
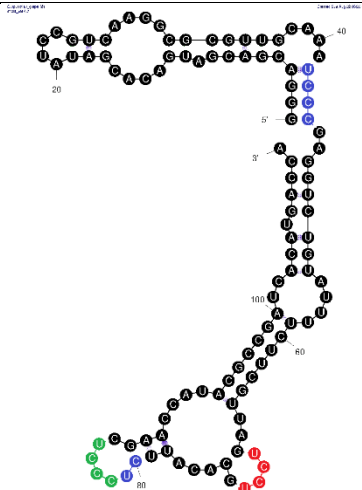
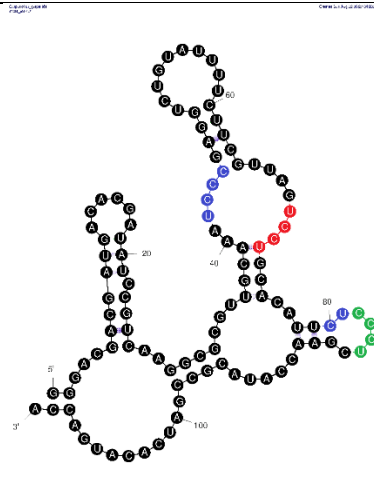
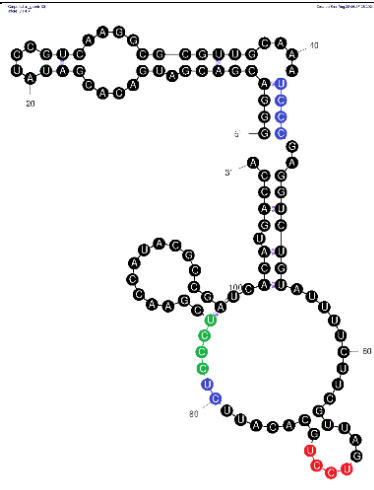
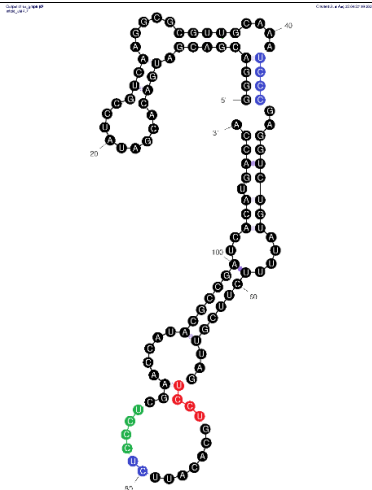


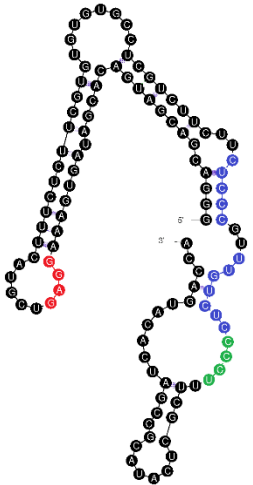
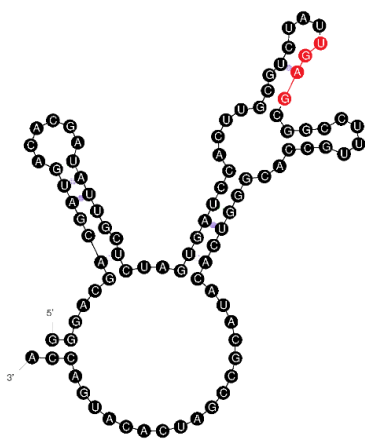
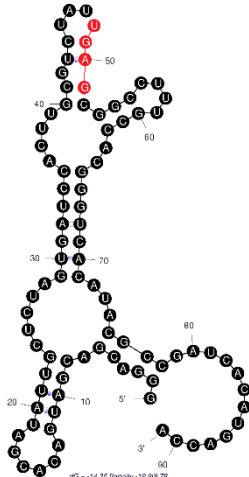
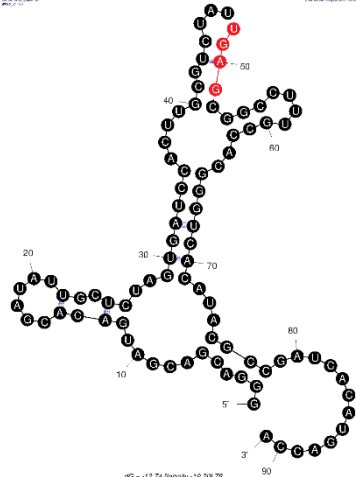
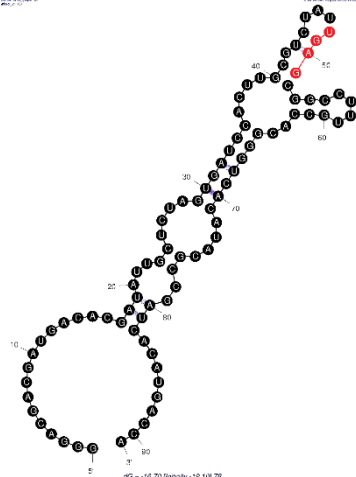
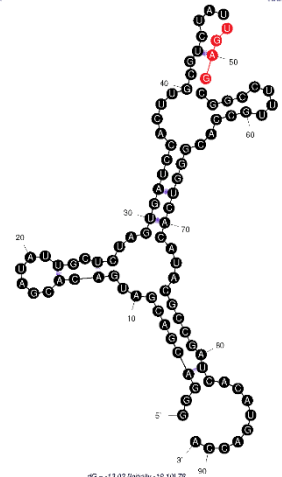
Table S1. Location of RNA motifs in the alternative 2° structures of aptamers. Both EXO- and RAFT-motif CCCU is marked in green, other EXO-motifs (GGAG, UGAG and UCCU) are marked in red and other RAFT-motifs (UCCC, CUCC, UUGU) are marked in blue. The free energy of each structural variant is given below the aptamer structure.

RNA NAME	LOCATION OF RNA MOTIF IN THE APTAMER WITH THE LOWEST FREE ENERGY	LOCATION OF RNA MOTIFS IN THE OTHER ALTERNATIVE STRUCTURE(S) OF APTAMER 2° STRUCTURE
54	 <p>Structure 1 : $\Delta G = -11.20$ kcal/mol</p>	 <p>Structure 2 : $\Delta G = -10.80$ kcal/mol,</p>
90	 <p>Structure 1 : $\Delta G = -22.90$ kcal/mol</p>	 <p>Structure 2 : $\Delta G = -22.10$ kcal/mol</p>

19	 <p>Structure 1 : $\Delta G = -23.00$ kcal/mol,</p>	 <p>Structure 2 : $\Delta G = -22.50$ kcal/mol,</p>	 <p>Structure 3 : $\Delta G = -22.50$ kcal/mol</p>	 <p>Structure 4 : $\Delta G = -22.40$ kcal/mol,</p>	
102	 <p>Structure 1 : $\Delta G = -12.90$ kcal/mol,</p>	 <p>Structure 2 : $\Delta G = -12.40$ kcal/mol,</p>			

13	 <p>Structure 1 : $\Delta G = -20.10$ kcal/mol,</p>	 <p>Structure 2 : $\Delta G = -19.80$ kcal/mol,</p>	 <p>Structure 3 : $\Delta G = -19.60$ kcal/mol,</p>
64	 <p>Structure 1 : $\Delta G = -20.20$ kcal/mol,</p>	 <p>Structure 2 : $\Delta G = -20.00$ kcal/mol,</p>	

24	 <p>Structure 1 : $\Delta G = -31.40$ kcal/mol,</p>	 <p>Structure 2 : $\Delta G = -30.10$ kcal/mol,</p>			
93	 <p>Structure 1 : $\Delta G = -19.20$ kcal/mol,</p>	 <p>Structure 2 : $\Delta G = -19.10$ kcal/mol,</p>	 <p>Structure 3 : $\Delta G = -19.10$ kcal/mol,</p>	 <p>Structure 4 : $\Delta G = -19.00$ kcal/mol,</p>	 <p>Structure 5 : $\Delta G = -18.90$ kcal/mol,</p>

10	 <p>Structure 1 : $\Delta G = -25.90$ kcal/mol,</p>				
78	 <p>Structure 1 : $\Delta G = -20.00$ kcal/mol,</p>	 <p>Structure 2 : $\Delta G = -19.90$ kcal/mol,</p>	 <p>Structure 3 : $\Delta G = -19.20$ kcal/mol,</p>	 <p>Structure 4 : $\Delta G = -19.10$ kcal/mol,</p>	 <p>Structure 5 : $\Delta G = -19.10$ kcal/mol,</p>