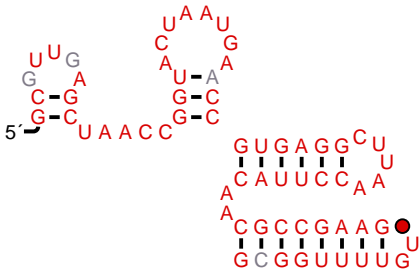
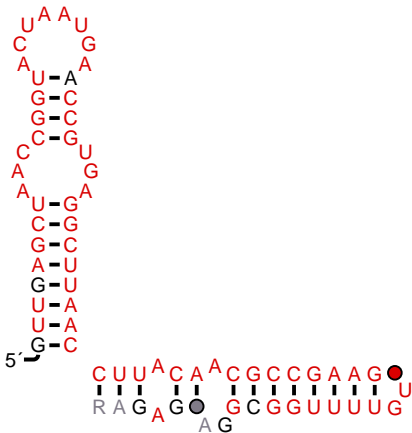


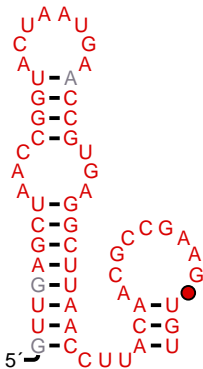
# 1a51\_motif\_1HFoldScanFold.stockholm\_1



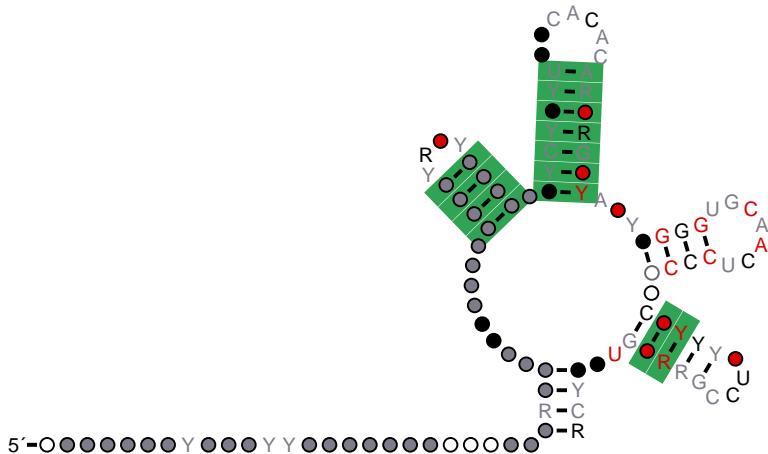
# 1a51\_motif\_1HFold.stockholm\_1



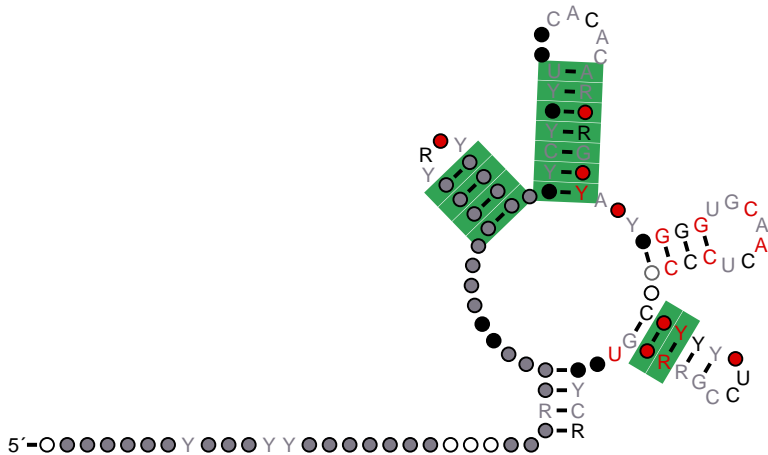
1a51\_motif\_1Knotty1.stockholm\_1



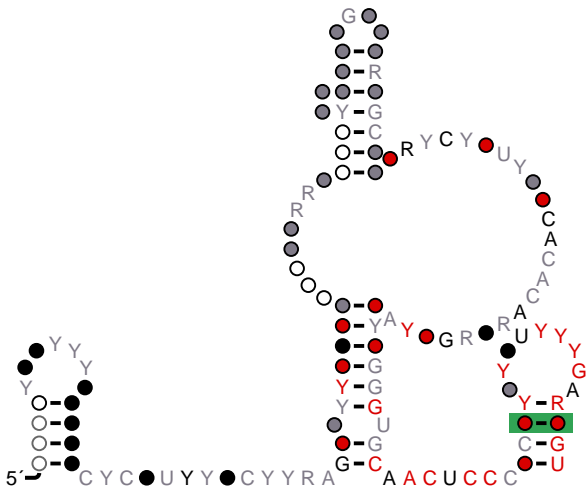
1a60\_motif\_1HFoldScanFold.stockholm\_1



1a60\_motif\_1HFold.stockholm\_1



# 1a60\_motif\_1Knotty1.stockholm\_1



# 1a60\_motif\_1Knotty2.stockholm\_1



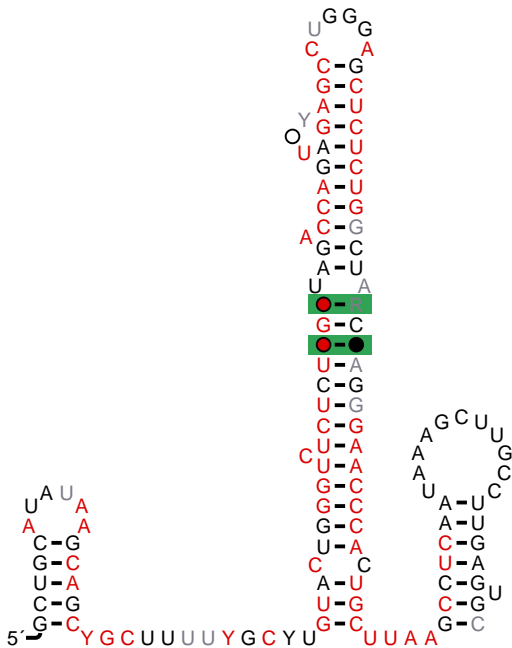




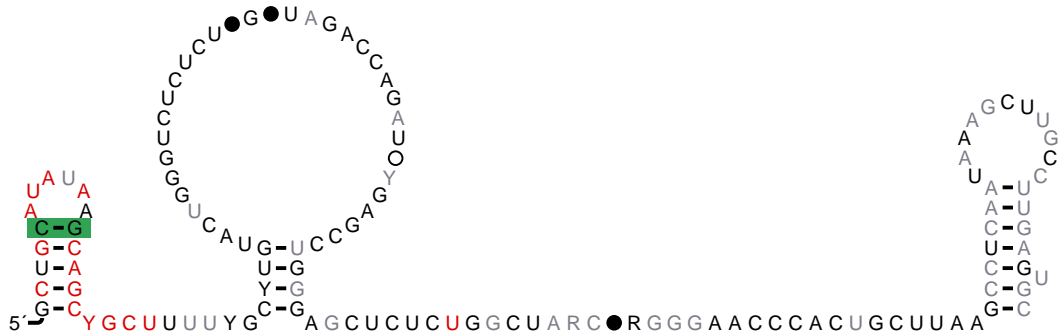


5' U A U A A C-G G-C U-A C-G G-C Y G C U U Y U Y G A G C U C U C U G G C U A R C A G G G A A C C C A C

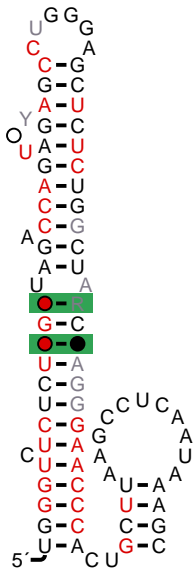
# 1aju\_motif\_1HFold.stockholm\_1



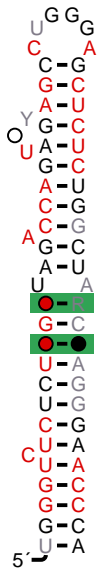
1aju\_motif\_1Knotty1.stockholm\_1



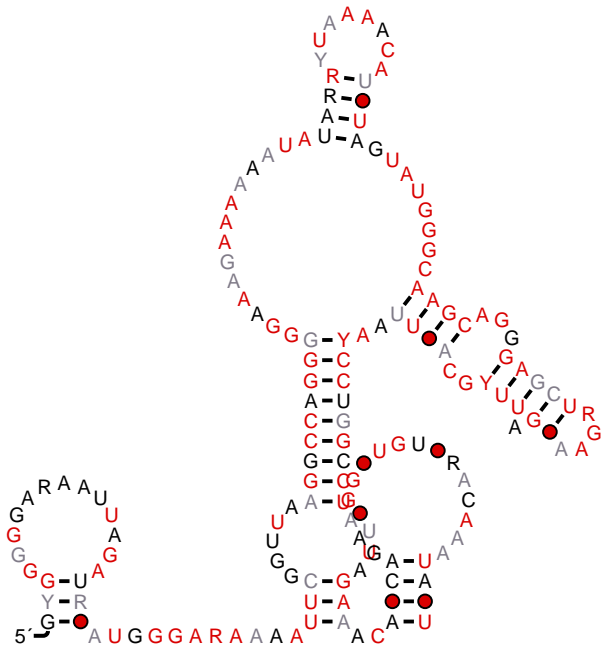
## 1aju\_motif\_1Knotty2.stockholm\_1



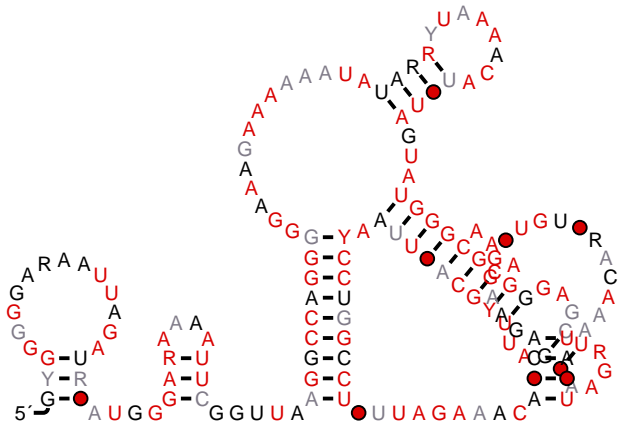
# 1aju\_motif\_1ScanFold.stockholm\_1



1aju\_motif\_2HFoldScanFold.stockholm\_1

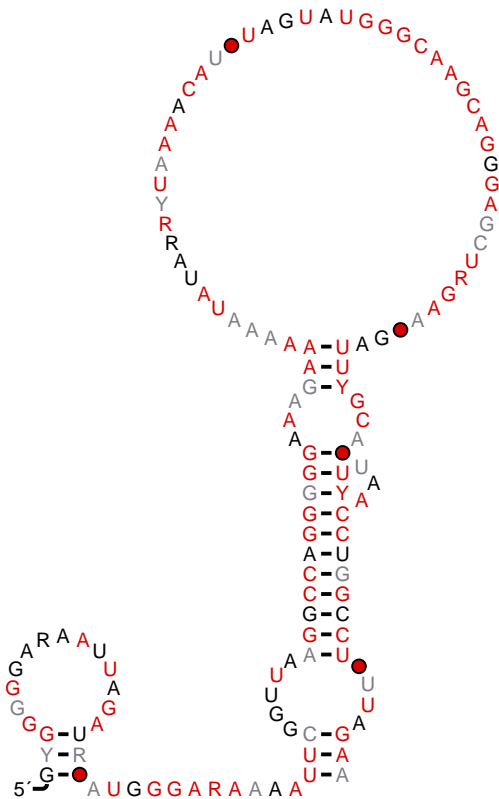


1aju\_motif\_2HFold.stockholm\_1

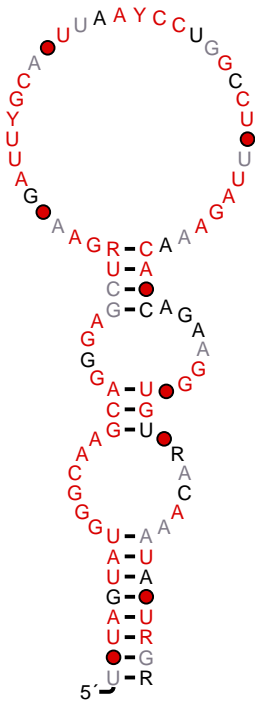




1aju\_motif\_2Knotty1.stockholm\_1

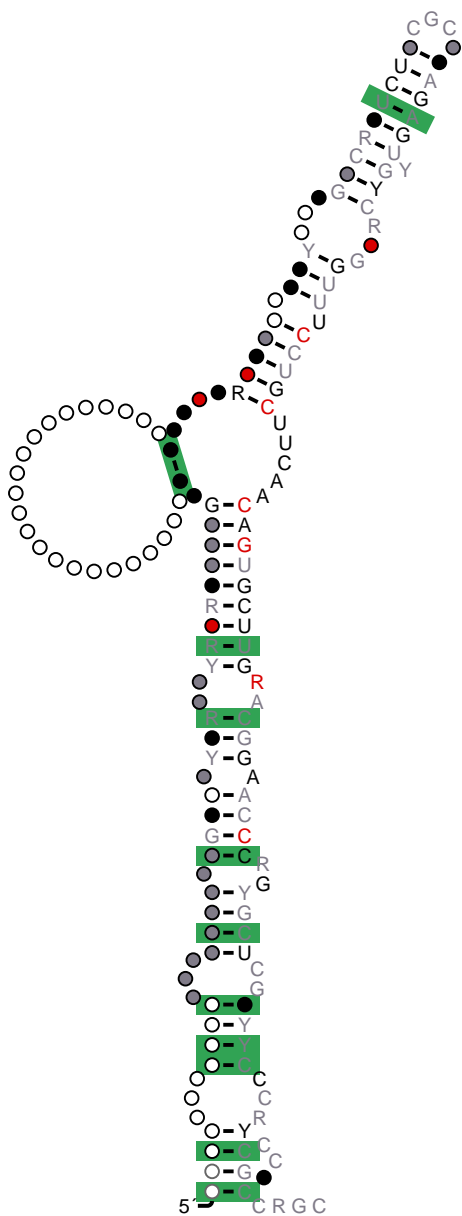


1aju\_motif\_2Knotty2.stockholm\_1

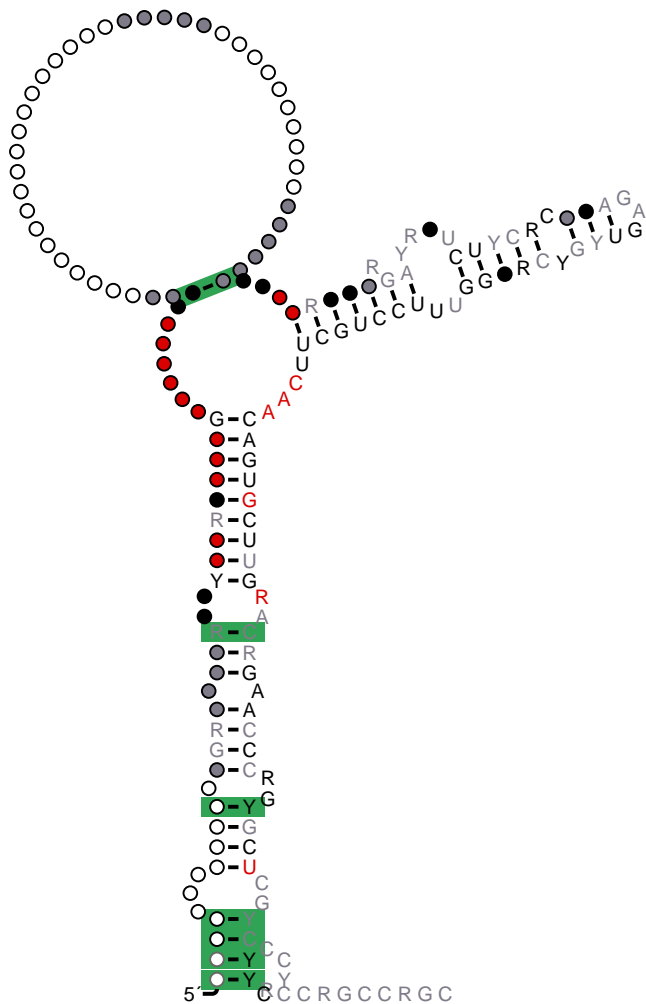


## 1aju\_motif\_2ScanFold.stockholm\_1





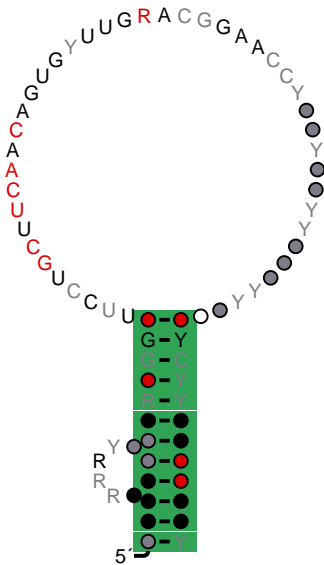
1aqq\_motif\_1HFold.stockholm\_1





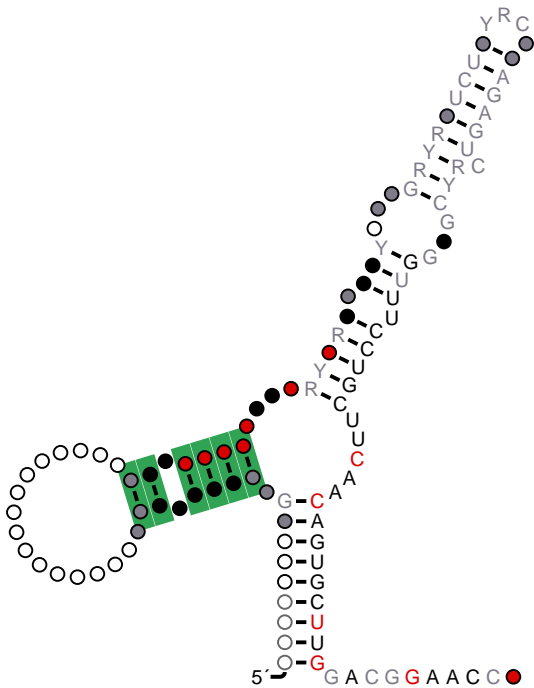
1aqo\_motif\_1Knotty2.stockholm\_1

1aqo\_motif\_1Knotty3.stockholm\_1

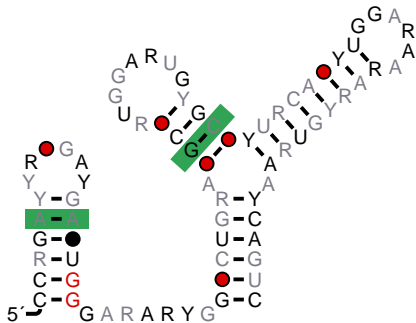




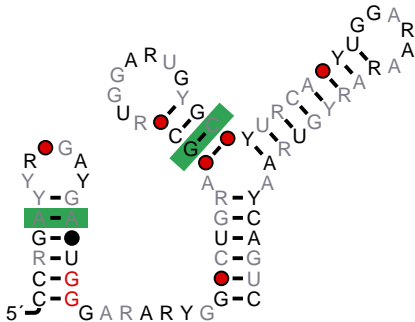
1aqo\_motif\_1 ScanFold.stockholm\_1



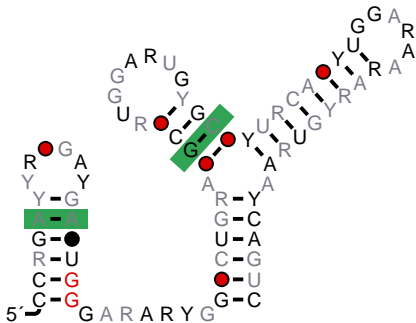
1aqo\_motif\_2HFoldScanFold.stockholm\_1



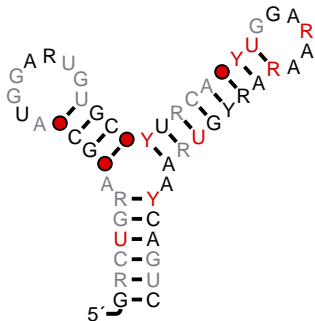
# 1aqo\_motif\_2HFold.stockholm\_1



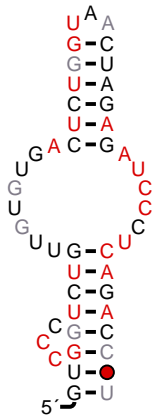
1aqq\_motif\_2Knotty.stockholm\_1



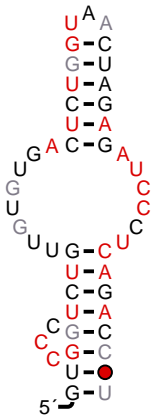
# 1aqo\_motif\_2ScanFold.stockholm\_1



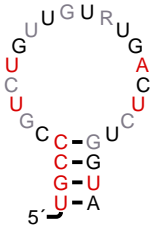
1arj\_motif\_10HFoldScanFold.stockholm\_1



1arj\_motif\_10HFold.stockholm\_1

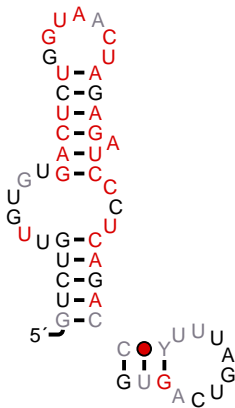


1arj\_motif\_10Knotty1.stockholm\_1

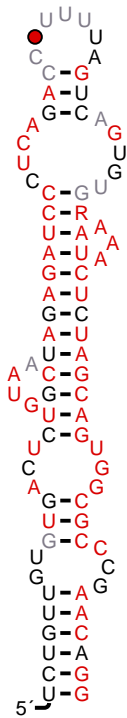




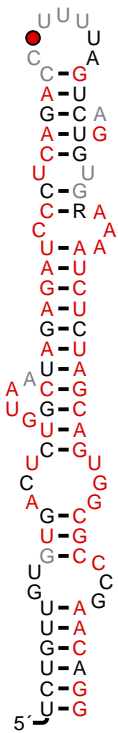
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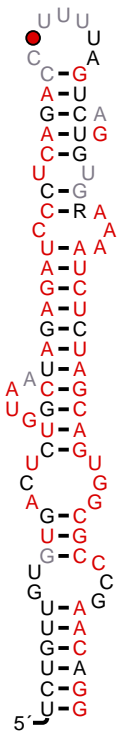
1arj\_motif\_11HFoldScanFold.stockholm\_1



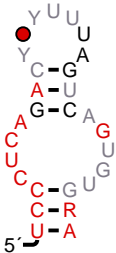
1arj\_motif\_11HFold.stockholm\_1



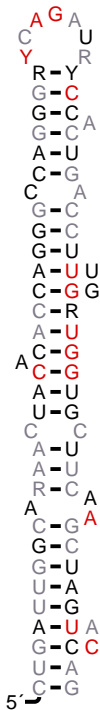
1arj\_motif\_11Knotty.stockholm\_1



1 arj\_motif\_1 1 ScanFold.stockholm\_1

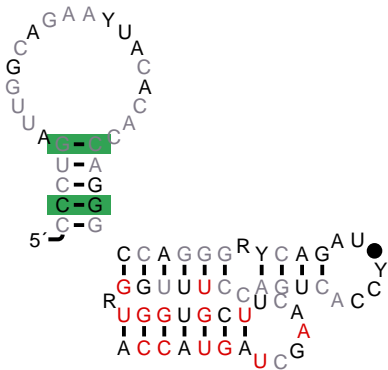


# 1arj\_motif\_1HFoldScanFold.stockholm\_1



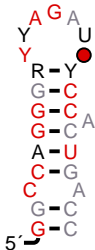


1arj\_motif\_1Knotty.stockholm\_1

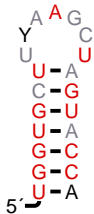




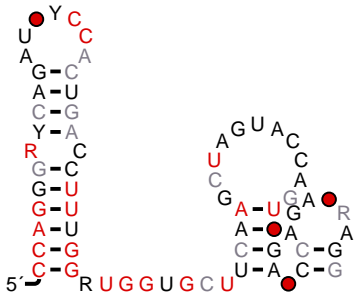
# 1arj\_motif\_1 ScanFold.stockholm\_1



# 1arj\_motif\_2HFoldScanFold1.stockholm\_1



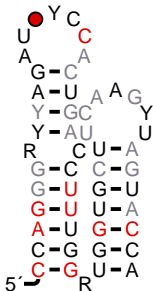
# 1arj\_motif\_2HFoldScanFold2.stockholm\_1



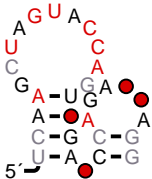
1arj\_motif\_2HFold.stockholm\_1



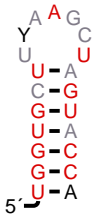
## 1arj\_motif\_2Knotty1.stockholm\_1



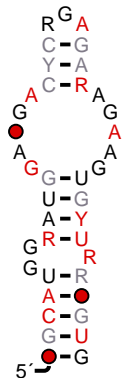
1arj\_motif\_2Knotty2.stockholm\_1



# 1arj\_motif\_2ScanFold.stockholm\_1

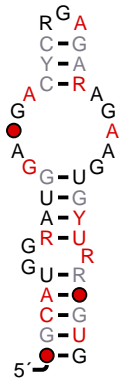


1arj\_motif\_3HFoldScanFold.stockholm\_1

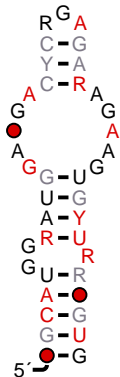




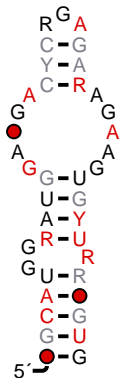
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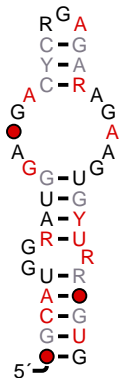
1arj\_motif\_3Knotty.stockholm\_1



1arj\_motif\_4HFoldScanFold.stockholm\_1

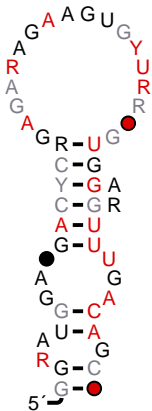


# 1arj\_motif\_4HFold.stockholm\_1

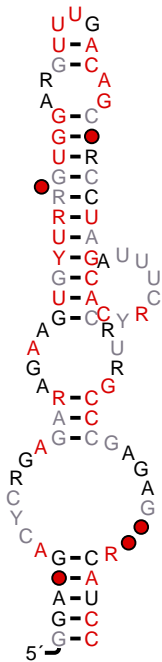




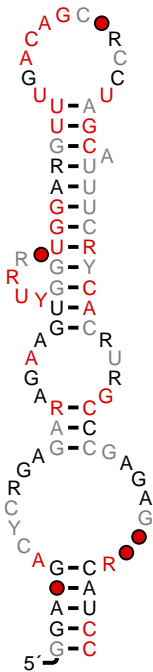
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1arj\_motif\_5HFoldScanFold.stockholm\_1

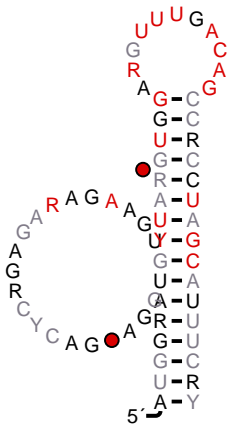


1arj\_motif\_5HFold.stockholm\_1

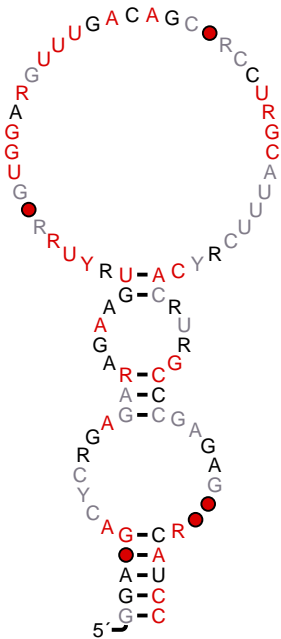




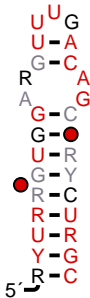
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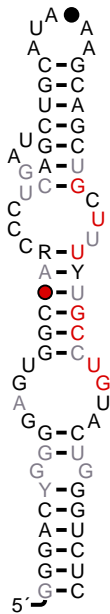
1arj\_motif\_5Knotty2.stockholm\_1



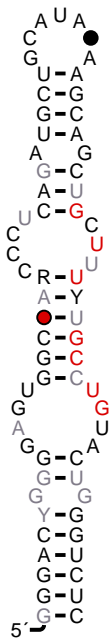
# 1arj\_motif\_5ScanFold.stockholm\_1



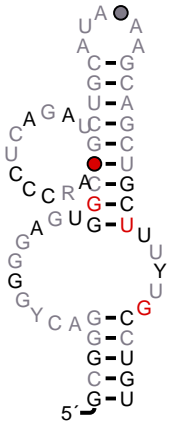
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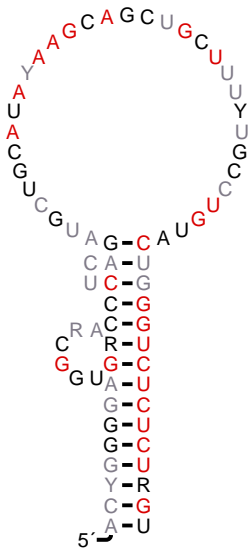
# 1arj\_motif\_6HFold.stockholm\_1



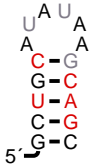
1arj\_motif\_6Knotty1.stockholm\_1



1arj\_motif\_6Knotty2.stockholm\_1

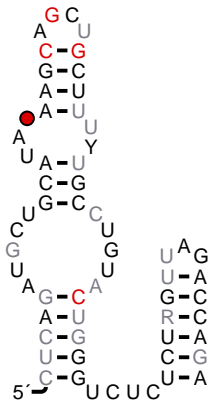


# 1arj\_motif\_6ScanFold.stockholm\_1

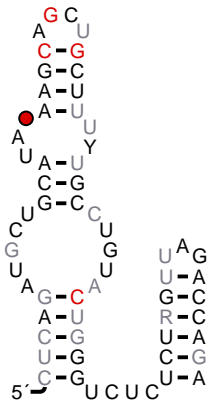




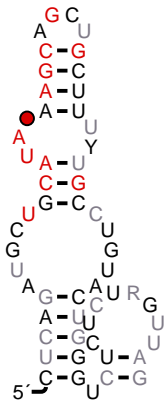
# 1arj\_motif\_7HFoldScanFold.stockholm\_1



1arj\_motif\_7HFold.stockholm\_1



1arj\_motif\_7Knotty1.stockholm\_1



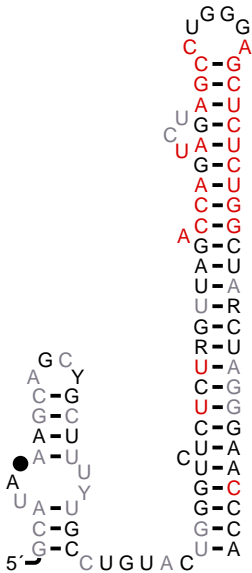
# 1arj\_motif\_7Knotty2.stockholm\_1



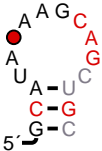
1arj\_motif\_8HFoldScanFold.stockholm\_1




# 1arj\_motif\_8HFold.stockholm\_1



1arj\_motif\_8Knotty1.stockholm\_1



U<sup>G</sup> G<sup>G</sup> G<sup>A</sup>  
C C-G  
G-C  
A-U  
U<sup>C</sup> G-C  
U<sup>C</sup> A-U  
G-C  
A-U  
C-G  
A C-G  
A G-C  
A-U  
U-A  
U-R  
C<sup>U</sup> G-C  
U<sup>U</sup> R-U  
U<sup>U</sup> U-A  
Y<sup>U</sup> C-G  
U<sup>U</sup> U-G  
G C-G  
C<sup>C</sup> U-A  
C<sup>C</sup> U-A  
U<sup>C</sup> G-C  
G G-C  
U G-C  
A<sup>C</sup> U-A

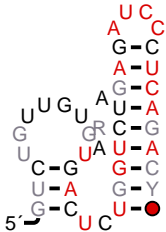
5' 



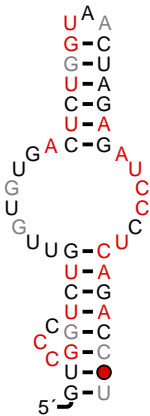
## 1arj\_motif\_8ScanFold.stockholm\_1



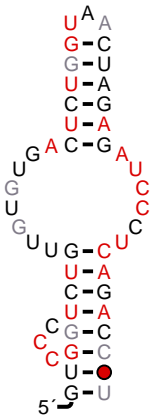
1arj\_motif\_9HFoldScanFold.stockholm\_1



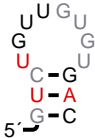
## 1arj\_motif\_9HFold.stockholm\_1



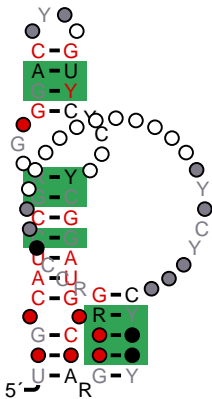
1arj\_motif\_9Knotty.stockholm\_1



1arj\_motif\_9ScanFold.stockholm\_1



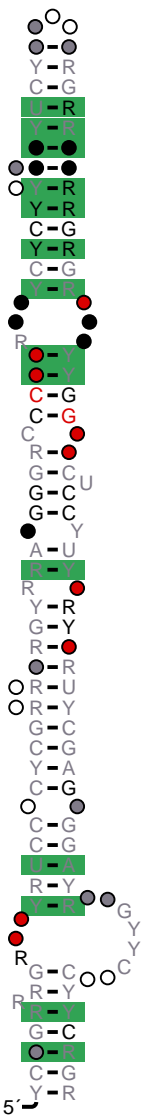
# 1ato\_motif\_1HFoldScanFold.stockholm\_1

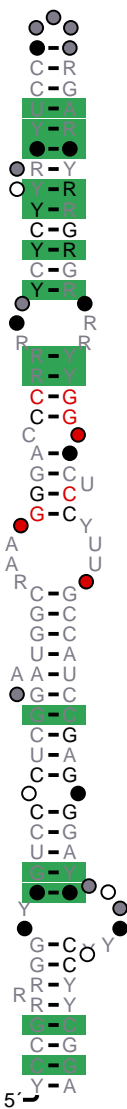


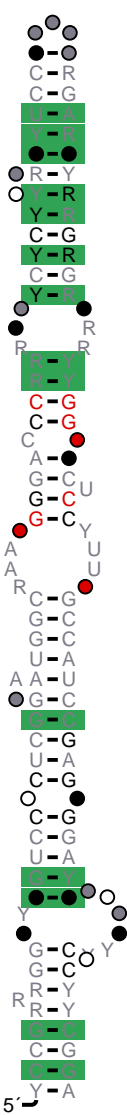


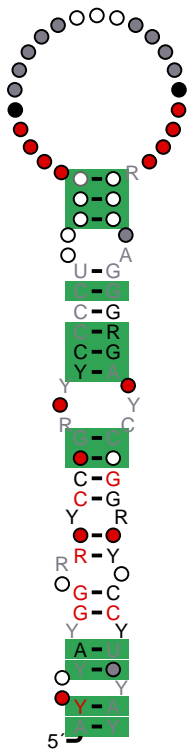




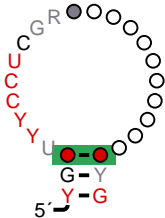




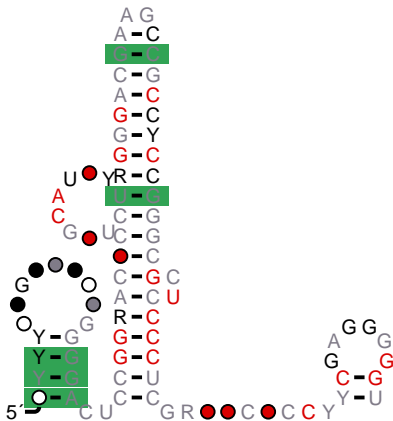




1ato\_motif\_3HFoldScanFold1.stockholm\_1

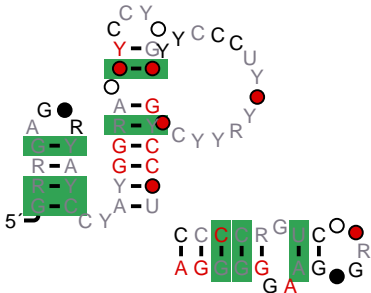


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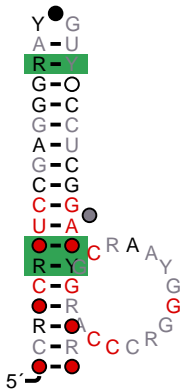


# 1ato\_motif\_3Knotty1.stockholm\_1





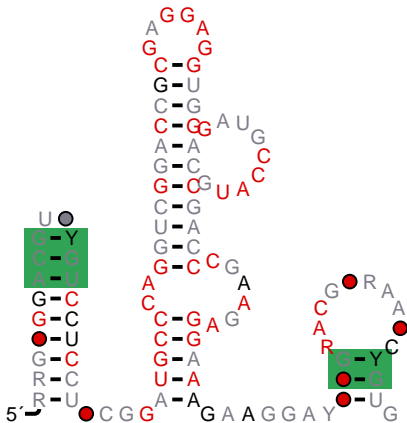
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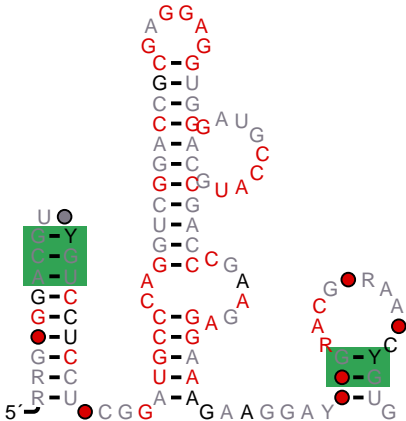
# 1ato\_motif\_3ScanFold.stockholm\_1



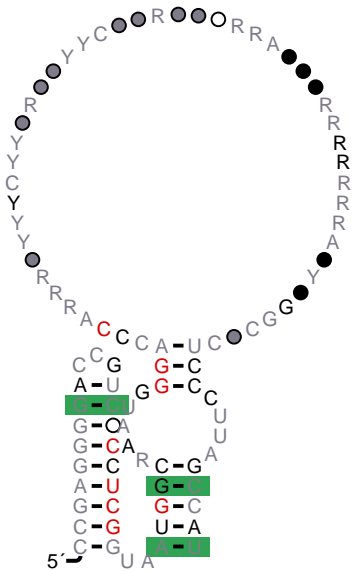
# 1ato\_motif\_4HFoldScanFold.stockholm\_1



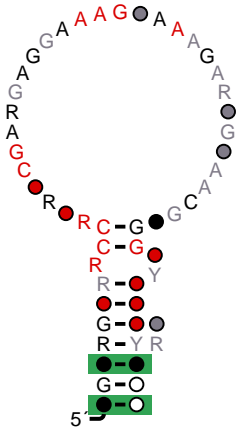
## 1ato\_motif\_4HFold.stockholm\_1



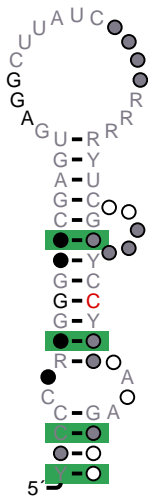
1ato\_motif\_4Knotty1.stockholm\_1



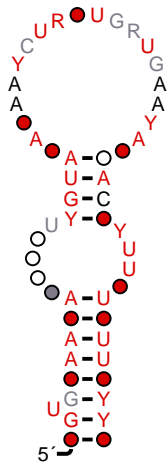
1ato\_motif\_4Knotty2.stockholm\_1



# 1ato\_motif\_4ScanFold.stockholm\_1

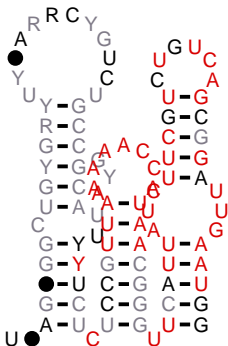


1bgz\_motif\_1HFoldScanFold1.stockholm\_1



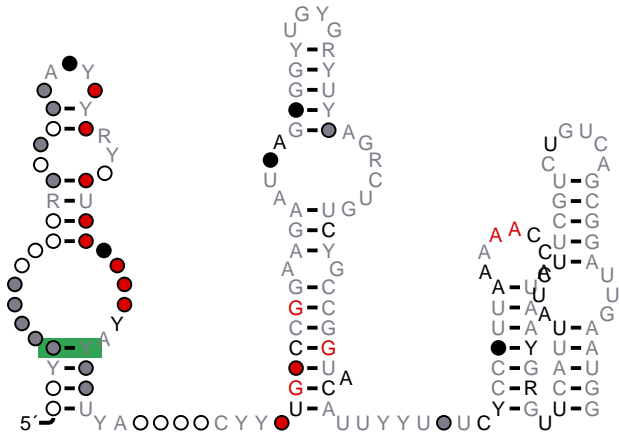


1bgz\_motif\_1HFoldScanFold2.stockholm\_1

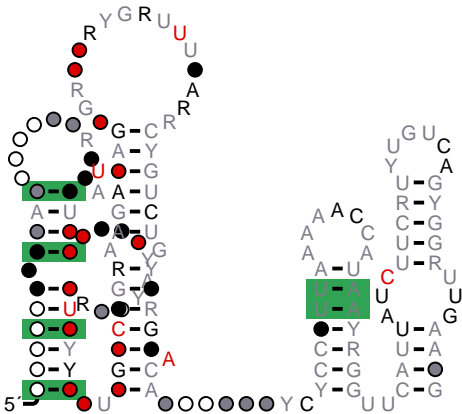


5'-●RU●●YCY●●●R●C●GGAAGA AU●

# 1bgz\_motif\_1HFold.stockholm\_1



## 1bgz\_motif\_1Knotty1.stockholm\_1

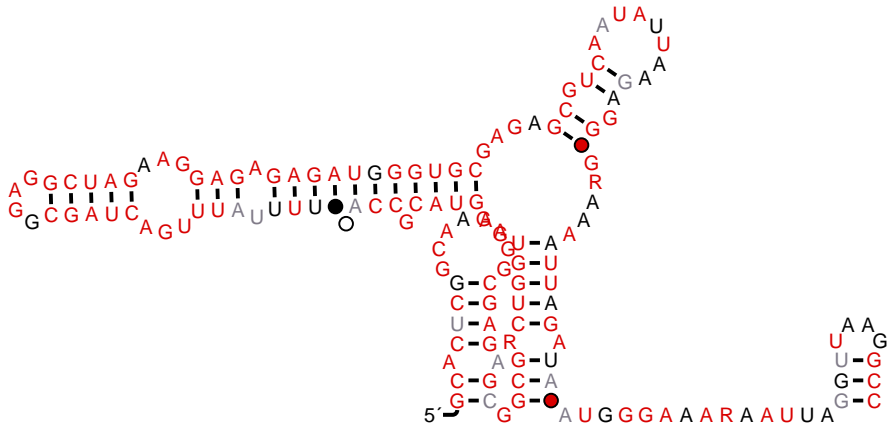


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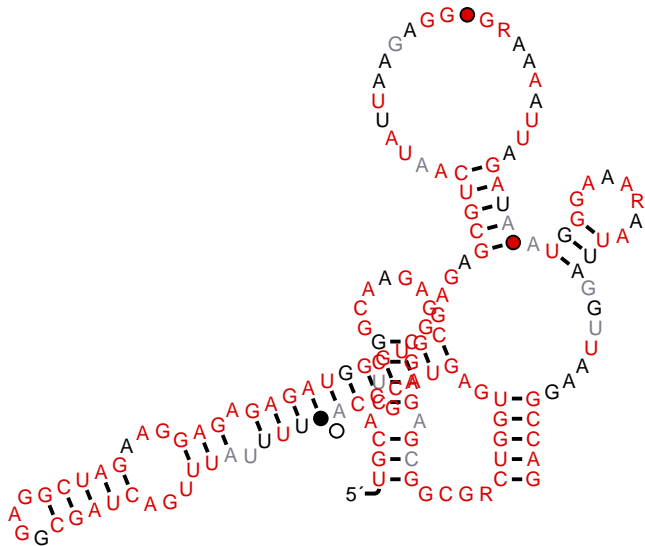


1bgz\_motif\_1ScanFold.stockholm\_1

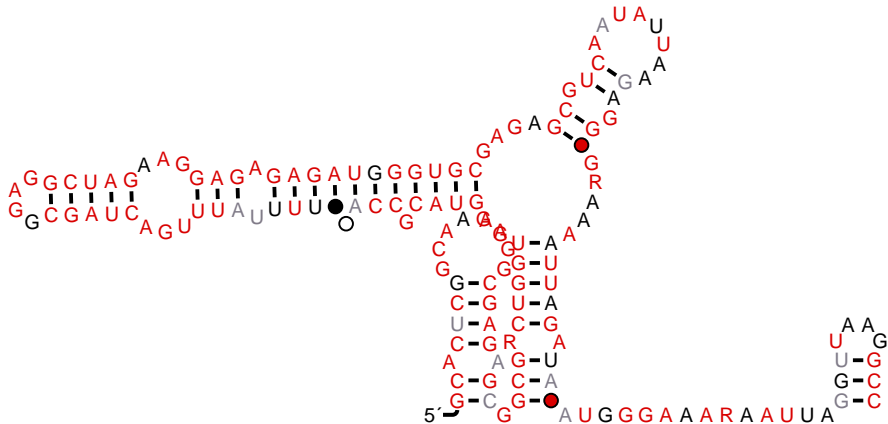
1bn0\_motif\_1HFoldScanFold.stockholm\_1



1bn0\_motif\_1HFold.stockholm\_1

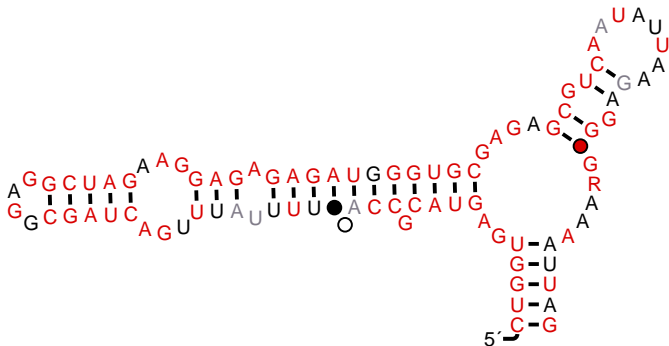


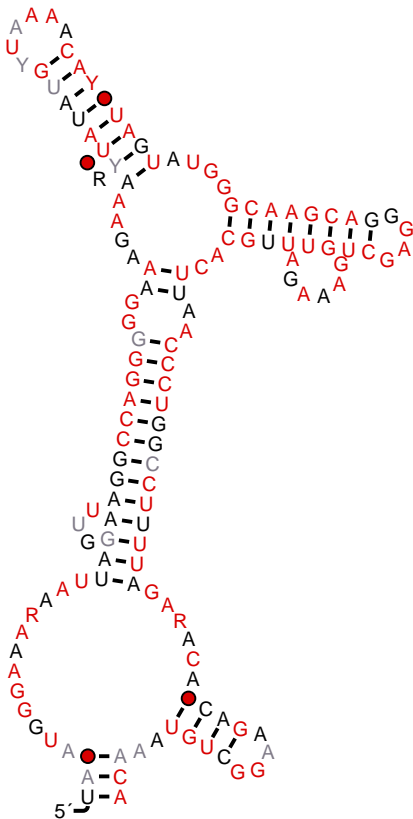
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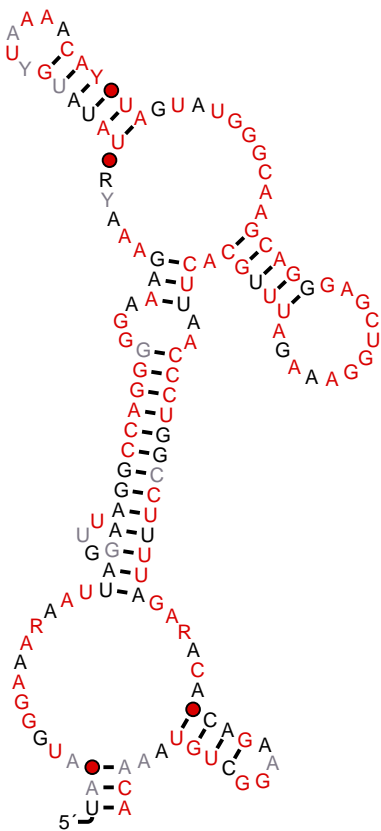
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1bn0\_motif\_2Knotty.stockholm\_1



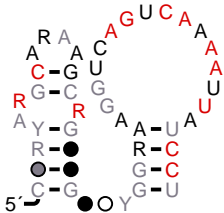
# 1bn0\_motif\_2ScanFold.stockholm\_1



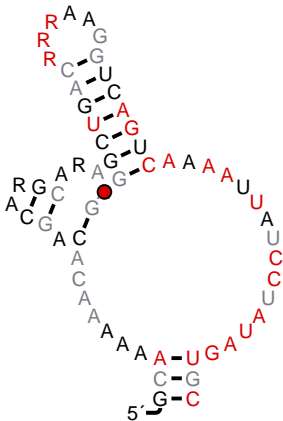
1bn0\_motif\_3HFoldScanFold1.stockholm\_1



1bn0\_motif\_3HFoldScanFold2.stockholm\_1

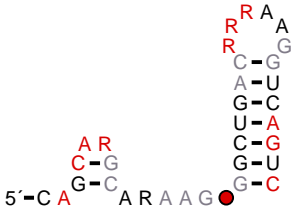


1bn0\_motif\_3HFold.stockholm\_1

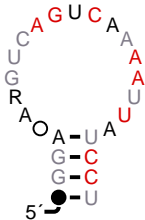




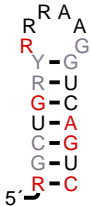
# 1bn0\_motif\_3Knotty1.stockholm\_1



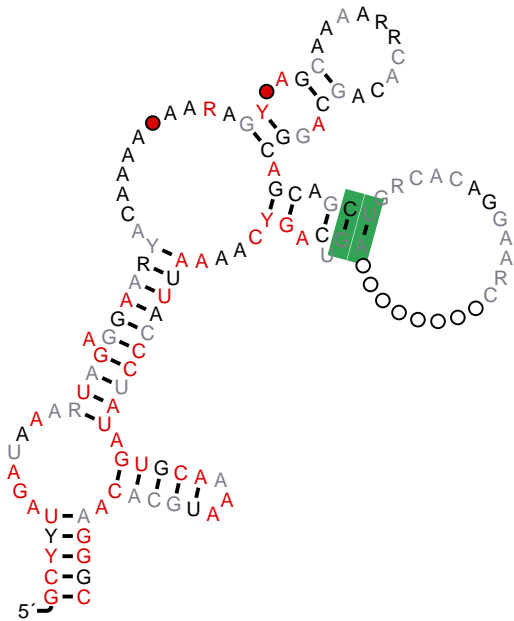
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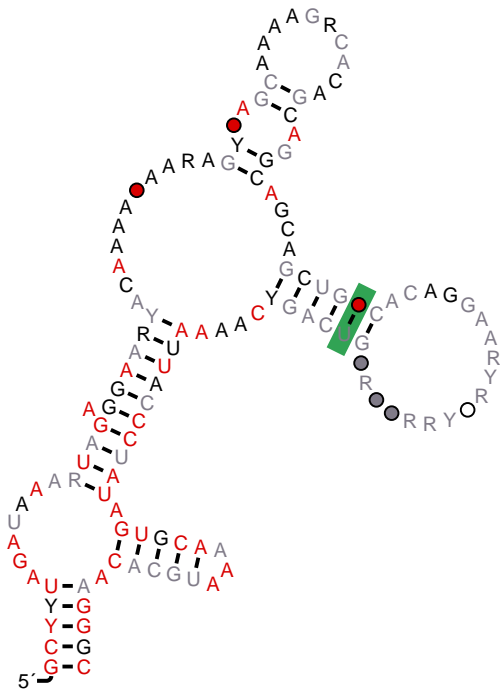
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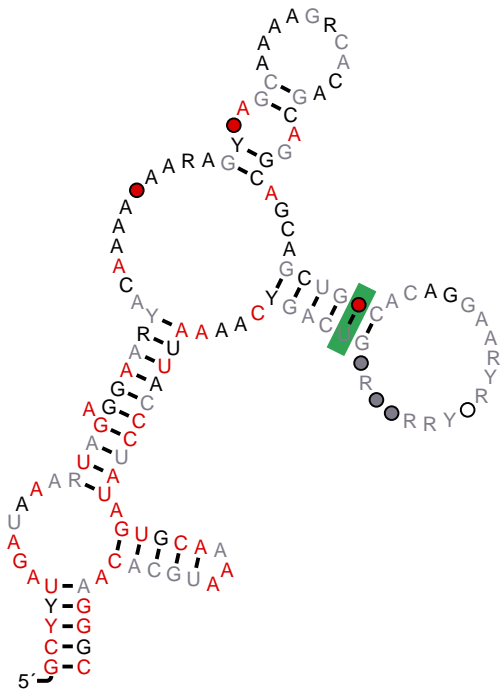
1bvj\_motif\_1HFoldScanFold.stockholm\_1



1bvj\_motif\_1HFold.stockholm\_1

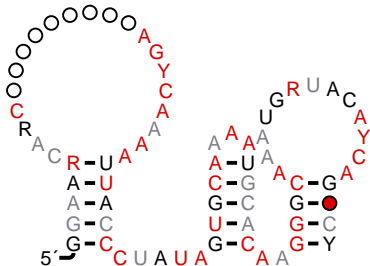


1bvj\_motif\_1Knotty.stockholm\_1



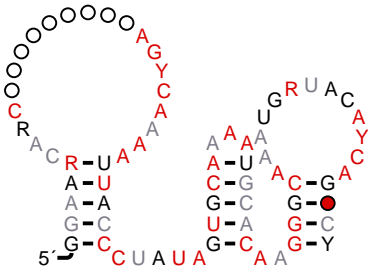


1bvj\_motif\_2HFoldScanFold.stockholm\_1

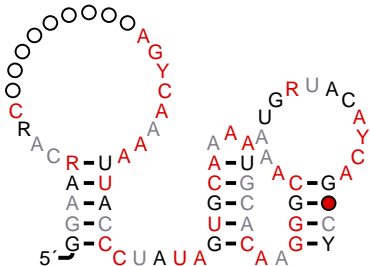




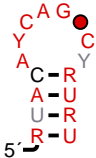
## 1bvj\_motif\_2HFold.stockholm\_1



1bvj\_motif\_2Knotty1.stockholm\_1



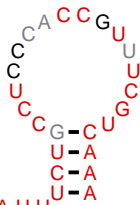
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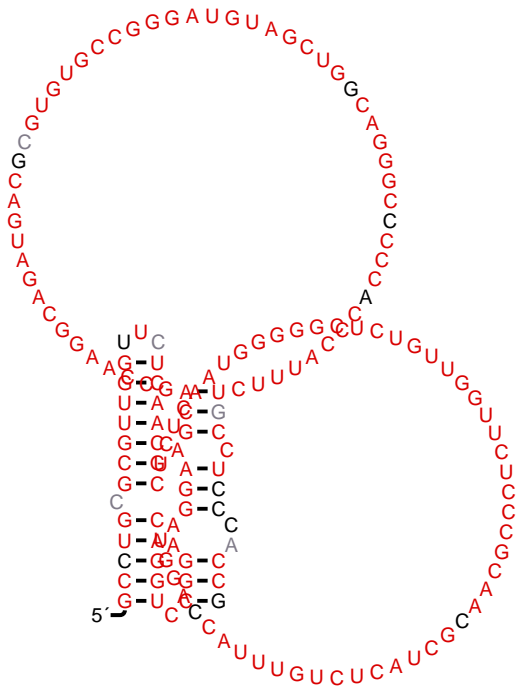
# 1bvj\_motif\_2ScanFold.stockholm\_1



5' **G**-CUCUCAA **U**-A C C C A U U



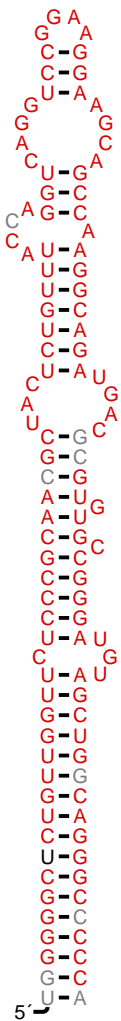
1cq5\_motif\_1Knotty1.stockholm\_1



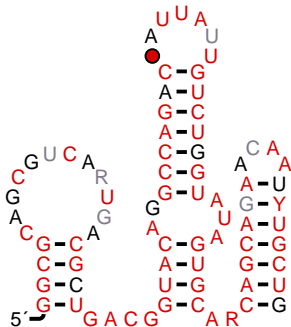
Secondary structure of the 5S rRNA of the archaeon *Pyrococcus furiosus*. The diagram shows a complex RNA fold with multiple stems and loops. The 5' end is labeled '5'-' and the 3' end is labeled '3'-'.



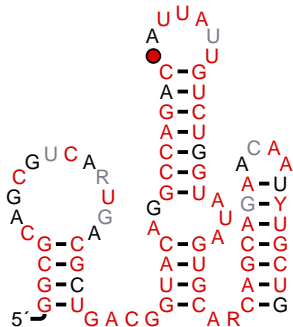
# 1cq5\_motif\_1ScanFold.stockholm\_1



1ebr\_motif\_1HFoldScanFold.stockholm\_1



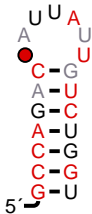
1ebr\_motif\_1HFold.stockholm\_1



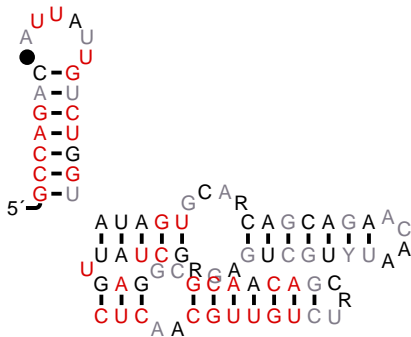
# 1ebr\_motif\_1Knotty2.stockholm\_1



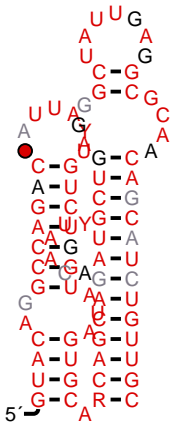
# 1ebr\_motif\_1ScanFold.stockholm\_1



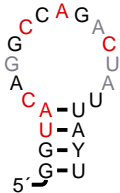
1ebr\_motif\_2HFoldScanFold.stockholm\_1



1ebr\_motif\_2HFold.stockholm\_1

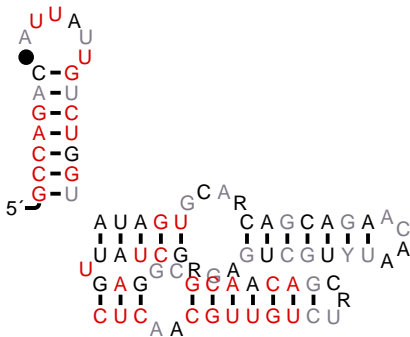


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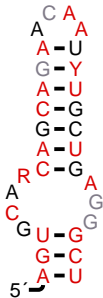




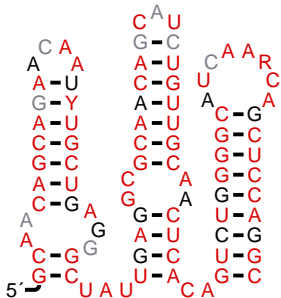
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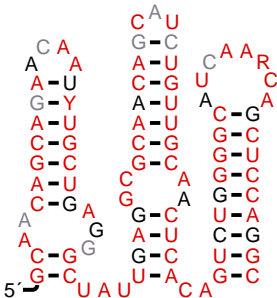
# 1ebr\_motif\_2ScanFold.stockholm\_1



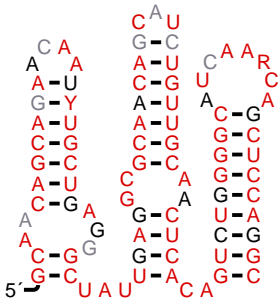
## 1ebr\_motif\_3HFoldScanFold.stockholm\_1



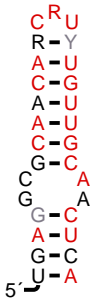
# 1ebr\_motif\_3HFold.stockholm\_1



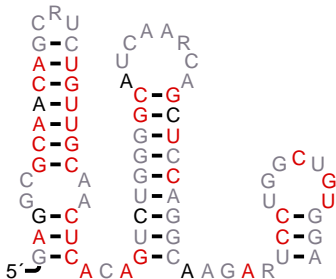
# 1ebr\_motif\_3Knotty.stockholm\_1



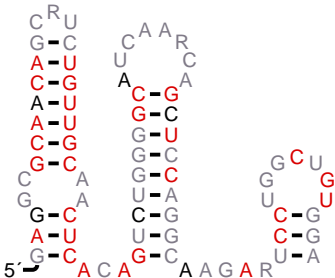
# 1ebr\_motif\_3ScanFold.stockholm\_1



# 1ebr\_motif\_4HFoldScanFold.stockholm\_1

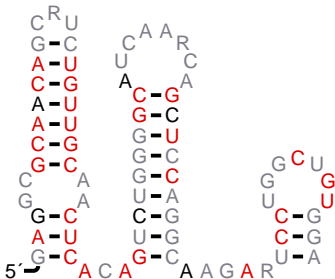


## 1ebr\_motif\_4HFold.stockholm\_1

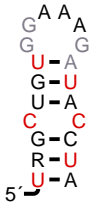




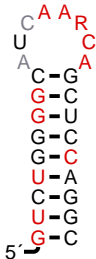
# 1ebr\_motif\_4Knotty1.stockholm\_1



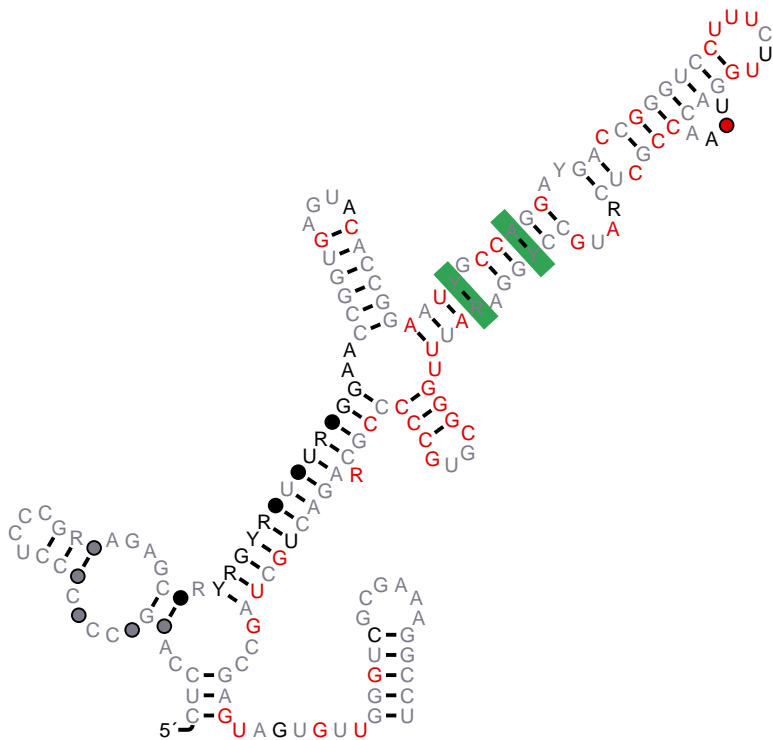
# 1ebr\_motif\_4Knotty2.stockholm\_1



# 1ebr\_motif\_4ScanFold.stockholm\_1



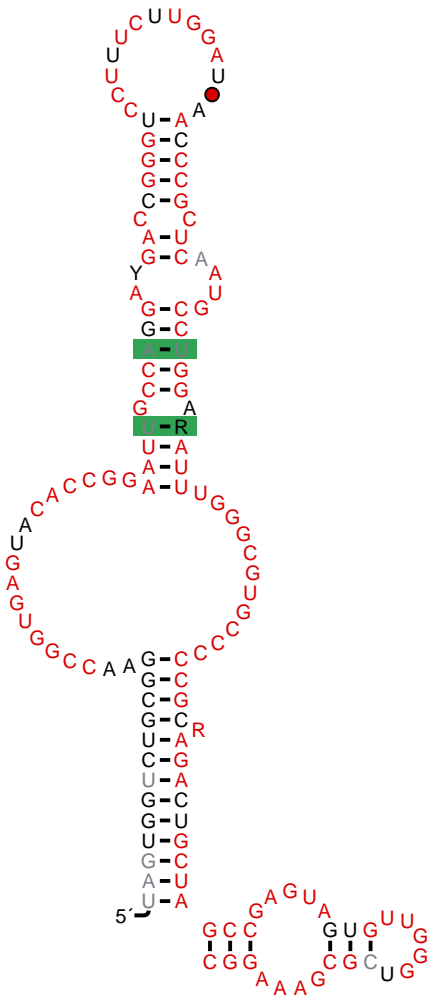
1f84\_motif\_1HFoldScanFold.stockholm\_1

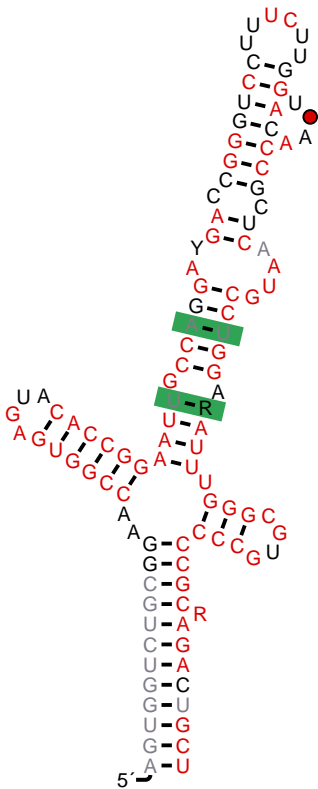




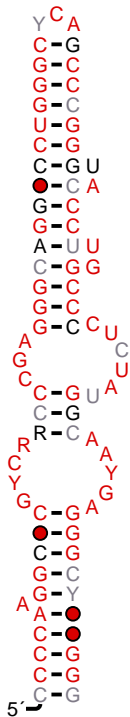
Secondary structure diagram of the Tetrahymena self-splicing intron. The diagram shows a complex RNA fold with several stems and loops. A red dot marks the active site where the 5' splice site (G) and the branch point (A) are in close proximity. The 5' end is labeled '5'-' and the 3' end is labeled '3'-'.

1f84\_motif\_1Knotty2.stockholm\_1

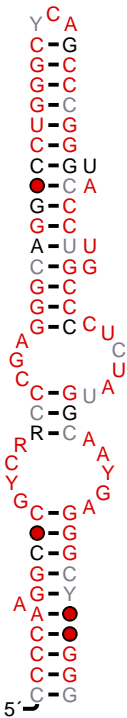




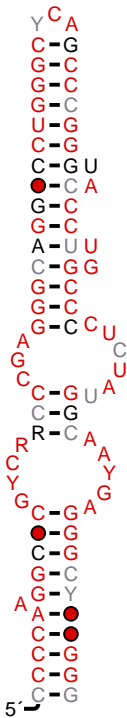




1f84\_motif\_2HFold.stockholm\_1



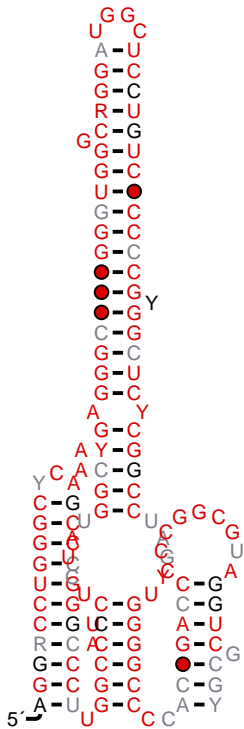
1f84\_motif\_2Knotty.stockholm\_1



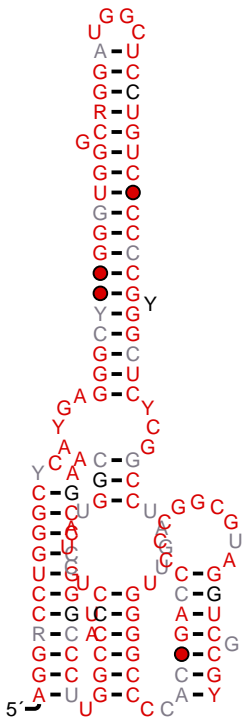
# 1f84\_motif\_2ScanFold.stockholm\_1



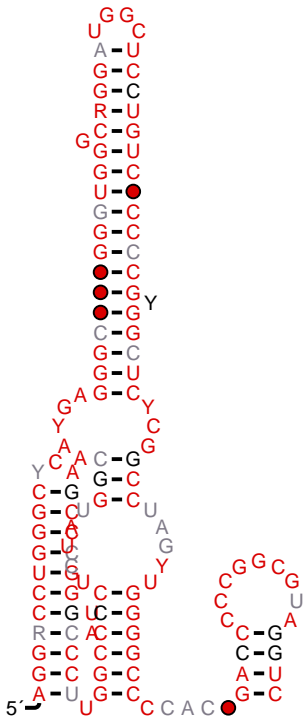
## 1f84\_motif\_3HFoldScanFold.stockholm\_1



# 1f84\_motif\_3HFold.stockholm\_1



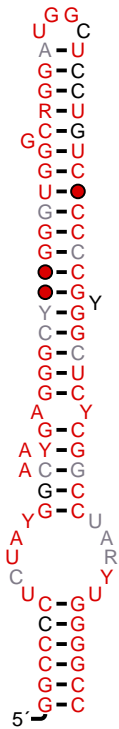
# 1f84\_motif\_3Knotty1.stockholm\_1

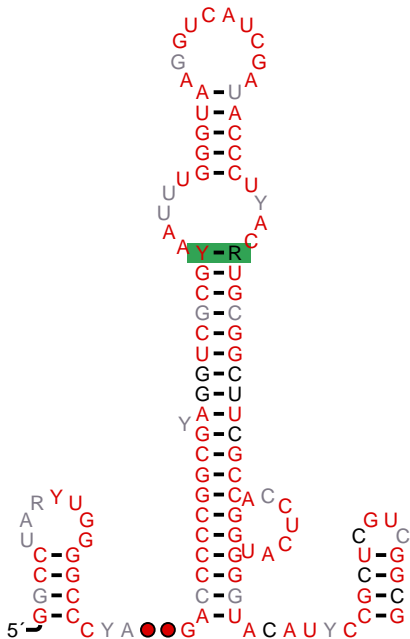


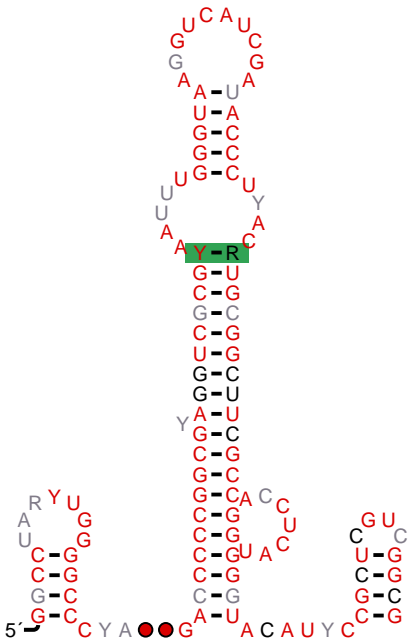
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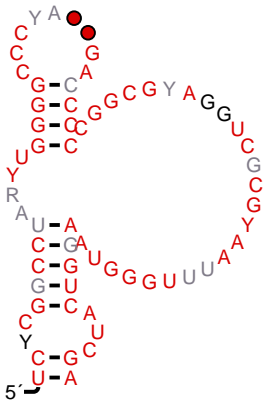




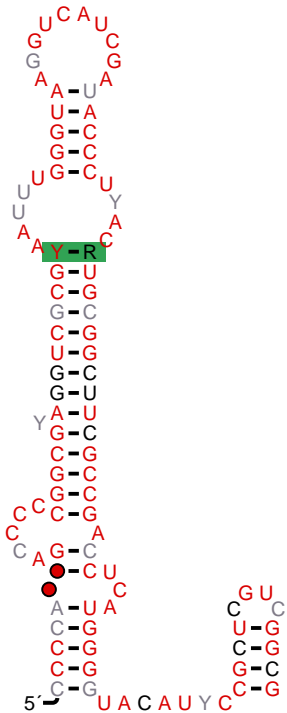




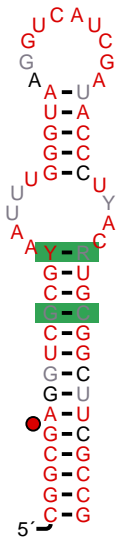
1f84\_motif\_4Knotty1.stockholm\_1



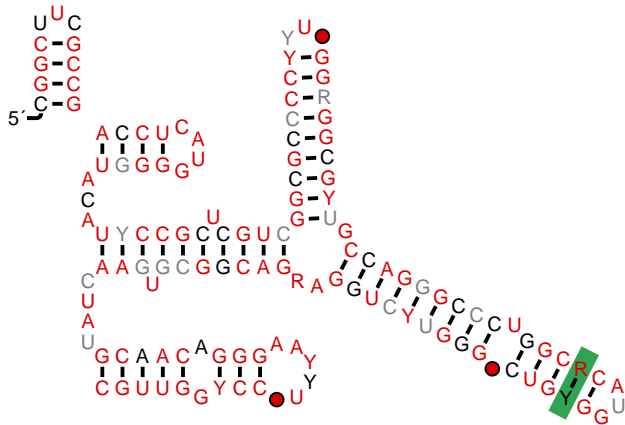
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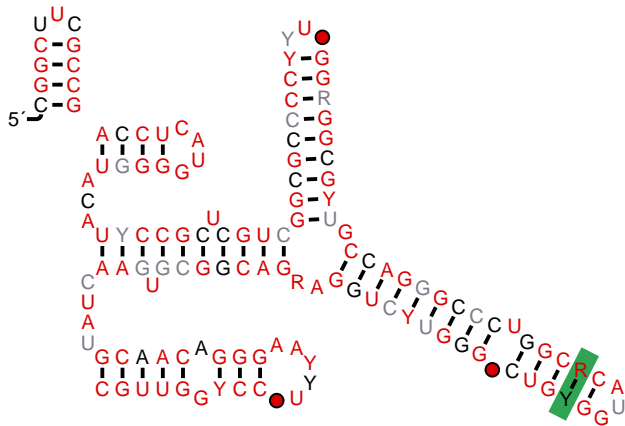
## 1f84\_motif\_4ScanFold.stockholm\_1



## 1f84\_motif\_5HFoldScanFold.stockholm\_1

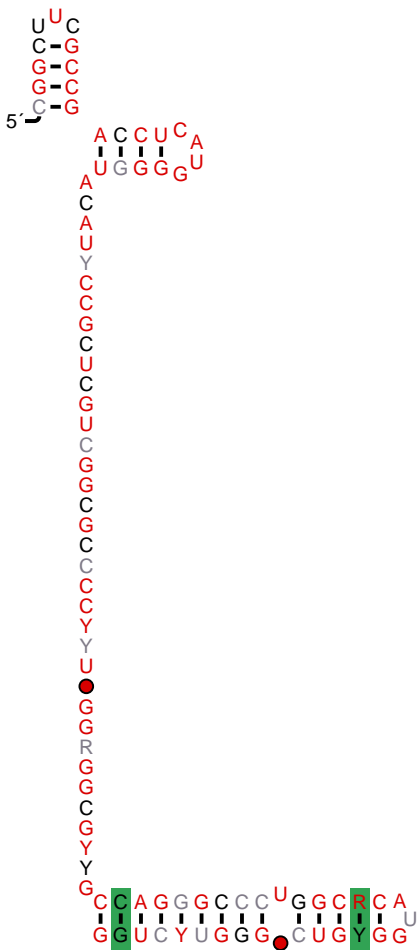


# 1f84\_motif\_5HFold.stockholm\_1

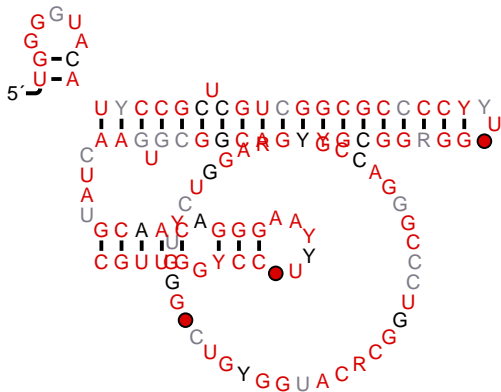




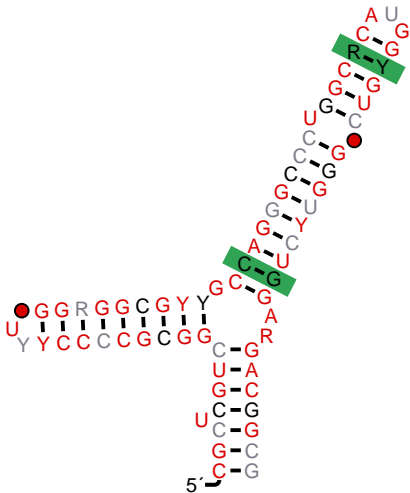
# 1f84\_motif\_5Knotty1.stockholm\_1



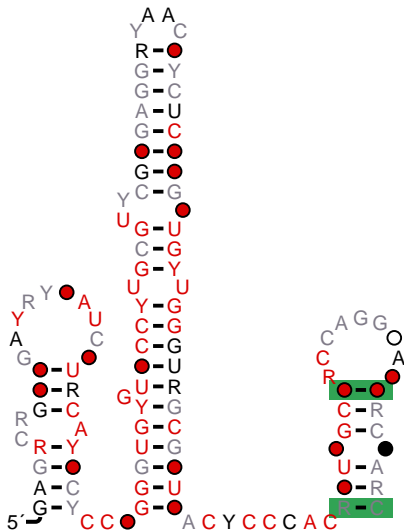
## 1f84\_motif\_5Knotty2.stockholm\_1



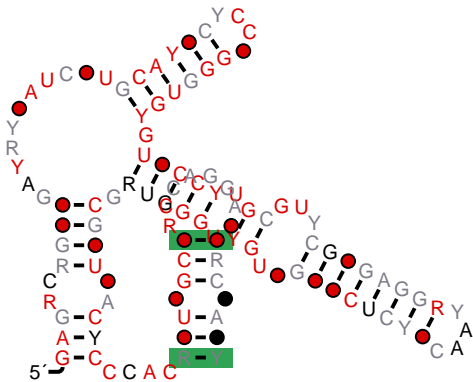
# 1f84\_motif\_5ScanFold.stockholm\_1



# 1f84\_motif\_6HFoldScanFold.stockholm\_1



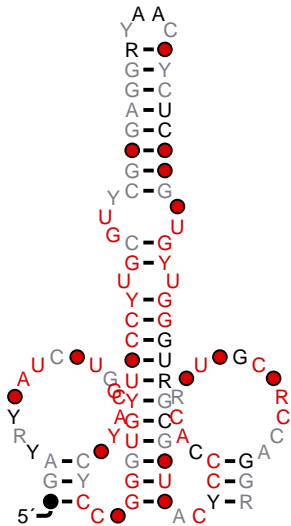
1f84\_motif\_6HFold.stockholm\_1



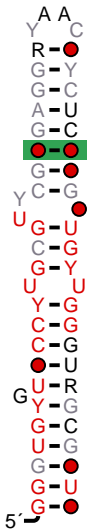
1f84\_motif\_6Knotty1.stockholm\_1



1f84\_motif\_6Knotty2.stockholm\_1

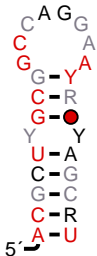


# 1f84\_motif\_6ScanFold.stockholm\_1

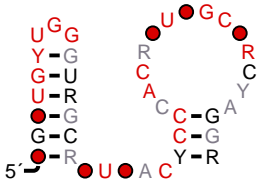




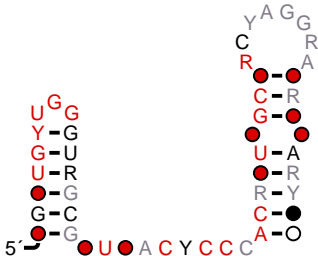
# 1f84\_motif\_7HFoldScanFold1.stockholm\_1



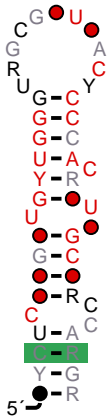
1f84\_motif\_7HFoldScanFold2.stockholm\_1



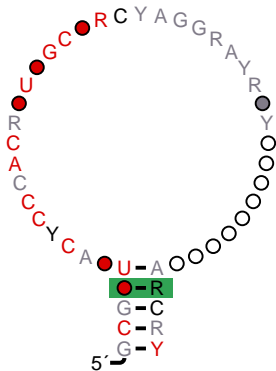
## 1f84\_motif\_7HFold.stockholm\_1



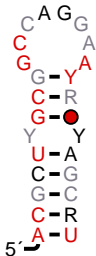
1f84\_motif\_7Knotty1.stockholm\_1



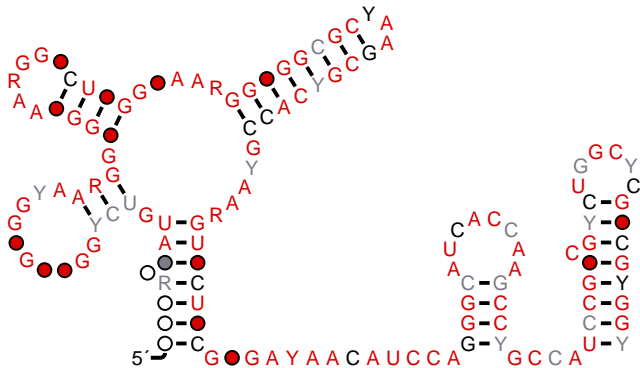
1f84\_motif\_7Knotty2.stockholm\_1



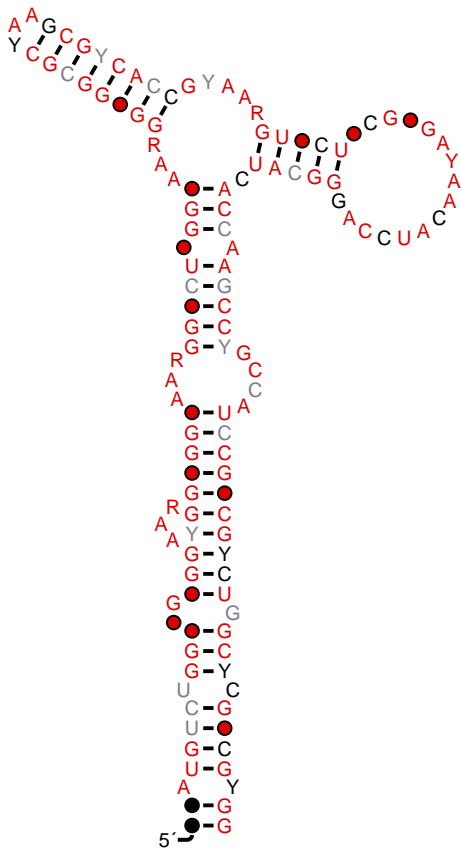
# 1f84\_motif\_7ScanFold.stockholm\_1



1kks\_motif\_1HFoldScanFold2.stockholm\_1

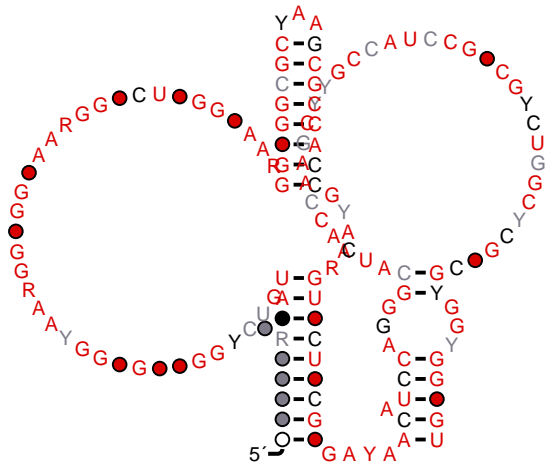


# 1kks\_motif\_1HFold.stockholm\_1

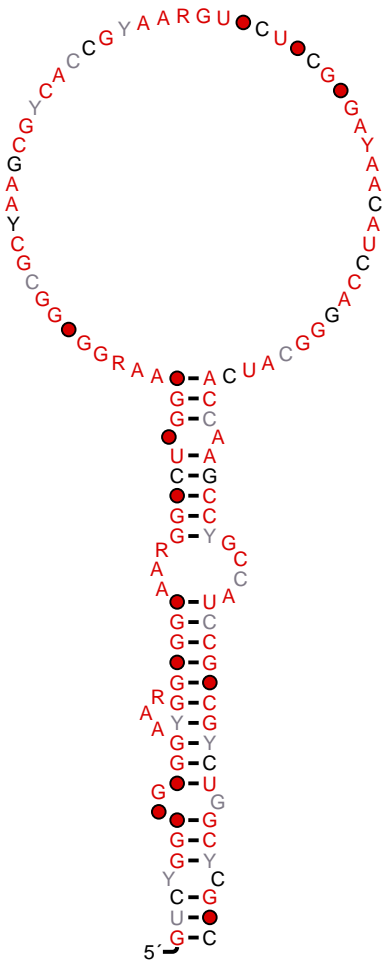




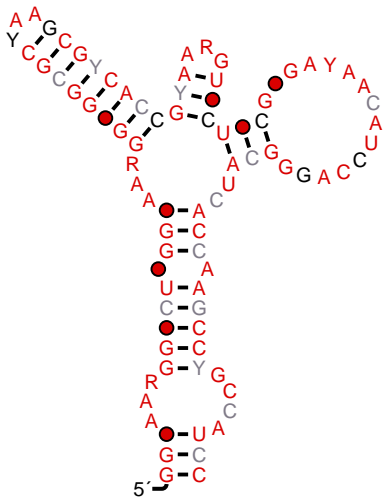
1kks\_motif\_1Knotty1.stockholm\_1



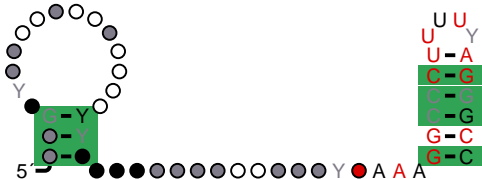
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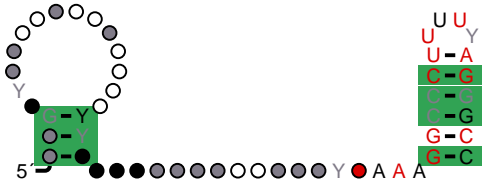
1kks\_motif\_1ScanFold.stockholm\_1



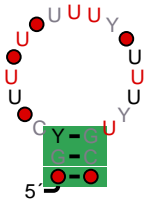
1kks\_motif\_2HFoldScanFold.stockholm\_1



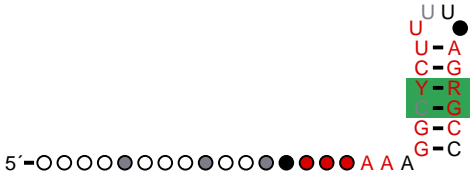
# 1kks\_motif\_2HFold.stockholm\_1



1kks\_motif\_2Knotty1.stockholm\_1



1kks\_motif\_2Knotty2.stockholm\_1

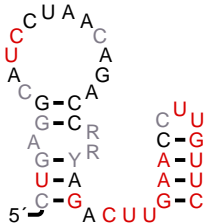


# 1mnx\_motif\_1HFoldScanFold.stockholm\_1

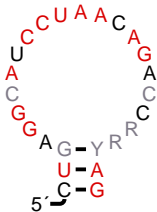




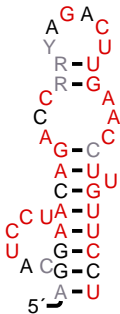
# 1mnx\_motif\_1HFold.stockholm\_1



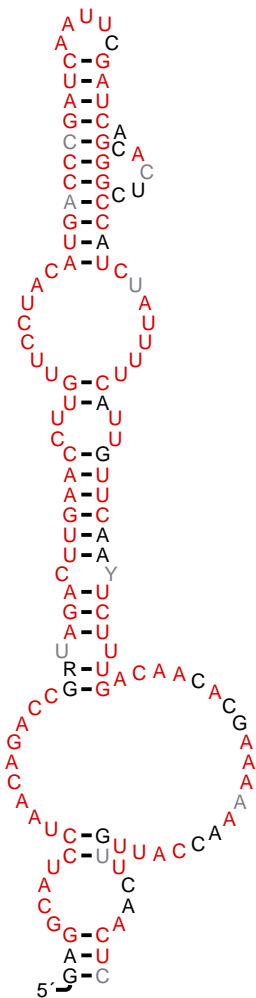
1mnx\_motif\_1Knotty1.stockholm\_1



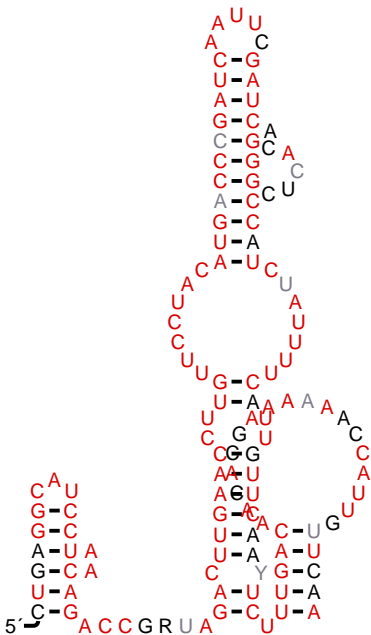
# 1mnx\_motif\_1Knotty2.stockholm\_1



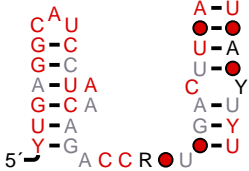
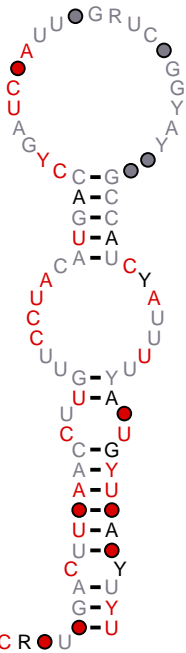
1mnx\_motif\_2HFoldScanFold.stockholm\_1



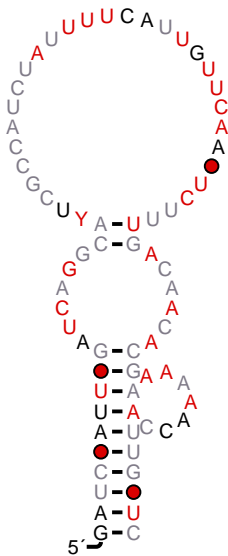
## 1mnx\_motif\_2HFold.stockholm\_1



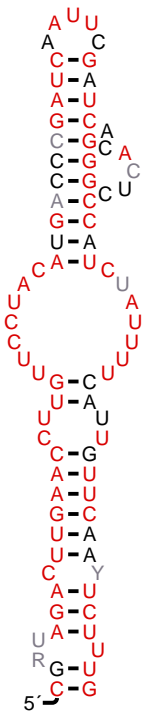
## 1mnx\_motif\_2Knotty1.stockholm\_1



1mnx\_motif\_2Knotty2.stockholm\_1

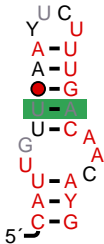


1mnx\_motif\_2ScanFold.stockholm\_1

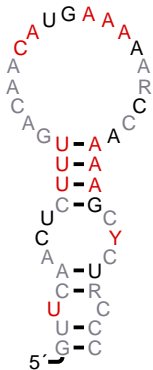




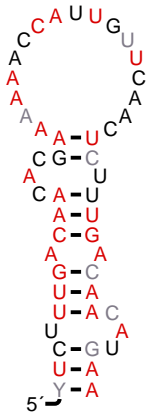
# 1mnx\_motif\_3HFoldScanFold.stockholm\_1



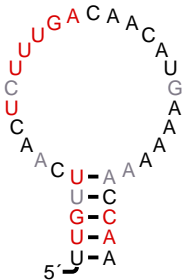
# 1mnx\_motif\_3HFold.stockholm\_1



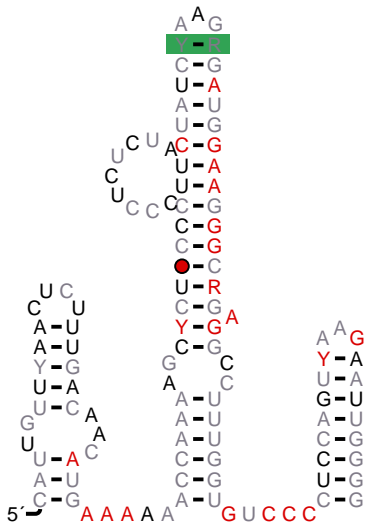
# 1mnx\_motif\_3Knotty1.stockholm\_1



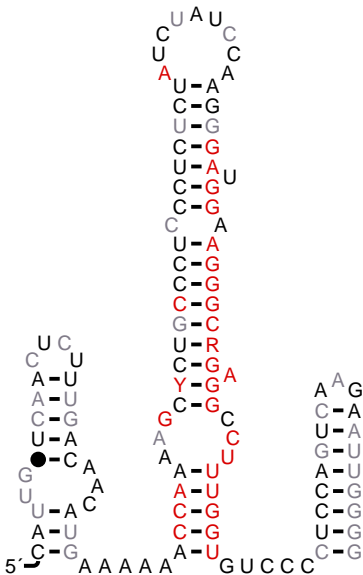
1mnx\_motif\_3Knotty2.stockholm\_1



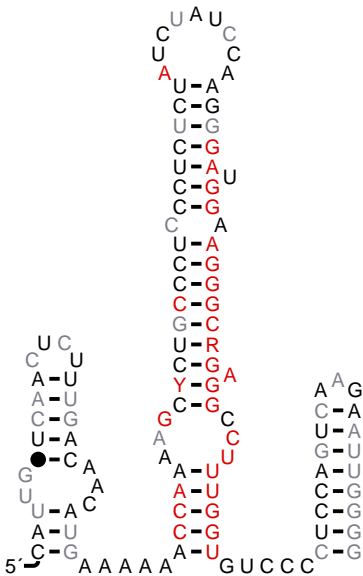
# 1mnx\_motif\_4HFoldScanFold.stockholm\_1



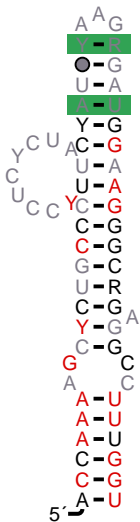
## 1mnx\_motif\_4HFold.stockholm\_1



## 1mnx\_motif\_4Knotty1.stockholm\_1

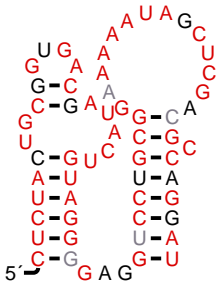


# 1mnx\_motif\_4ScanFold.stockholm\_1

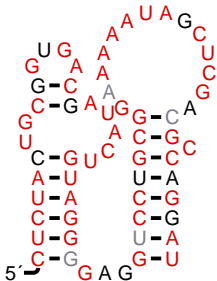




1mnx\_motif\_5HFoldScanFold.stockholm\_1

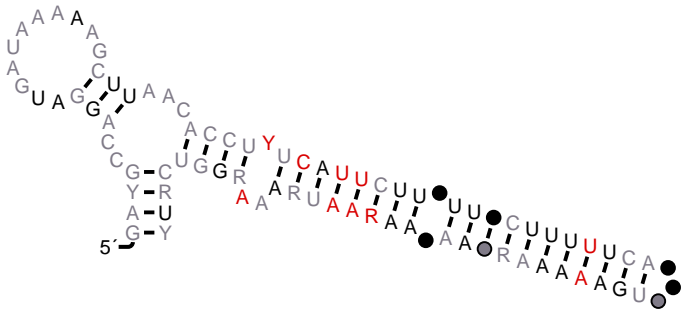


## 1mnx\_motif\_5HFold.stockholm\_1



[illegible]

1mnx\_motif\_6HFoldScanFold.stockholm\_1



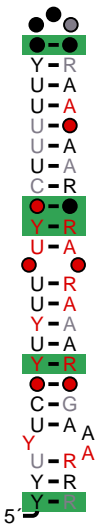
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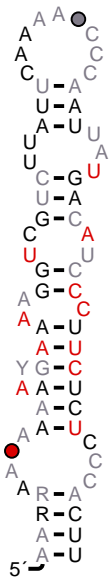
1mnx\_motif\_6Knotty.stockholm\_1



# 1mnx\_motif\_6ScanFold.stockholm\_1

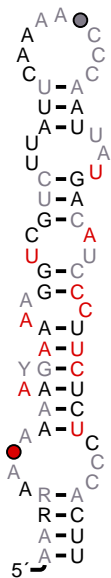


1mnx\_motif\_7HFoldScanFold.stockholm\_1

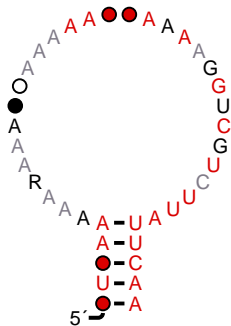




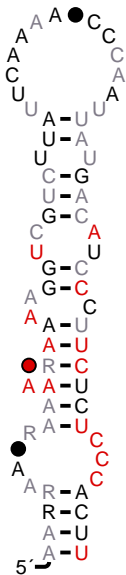
# 1mnx\_motif\_7HFold.stockholm\_1



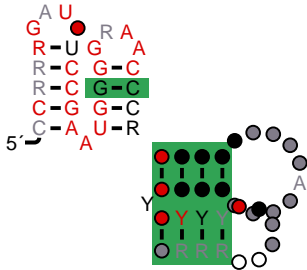
1mnx\_motif\_7Knotty1.stockholm\_1



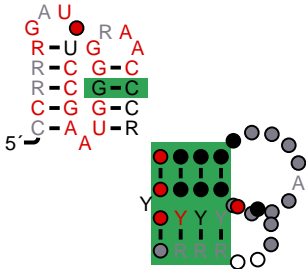
# 1mnx\_motif\_7Knotty2.stockholm\_1



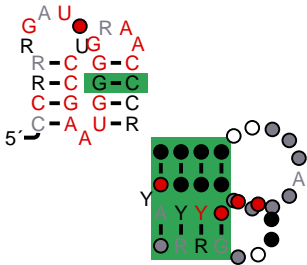
1njn\_motif\_10HFoldScanFold.stockholm\_1



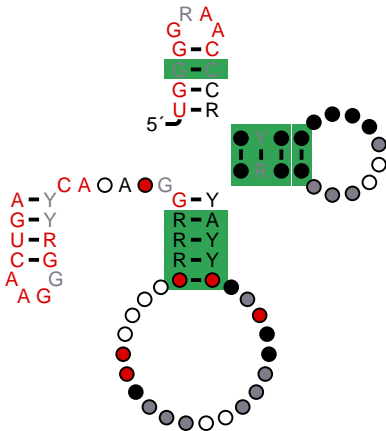
# 1njn\_motif\_10HFold.stockholm\_1



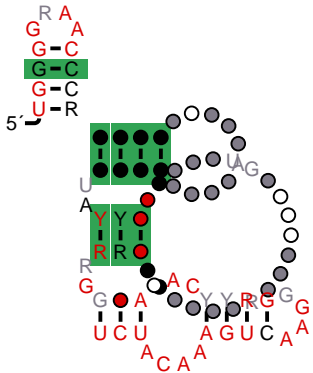
# 1njn\_motif\_10Knotty2.stockholm\_1



1nijn\_motif\_11HFoldScanFold.stockholm\_1

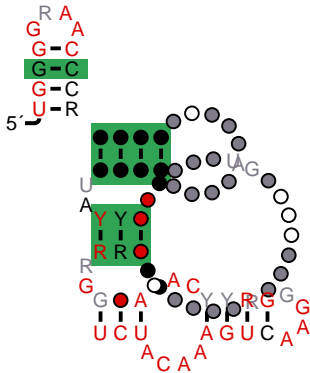


## 1njn\_motif\_11HFold.stockholm\_1





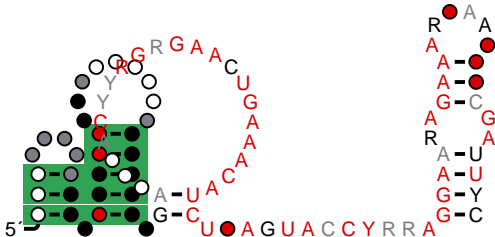
## 1njn\_motif\_11Knotty.stockholm\_1



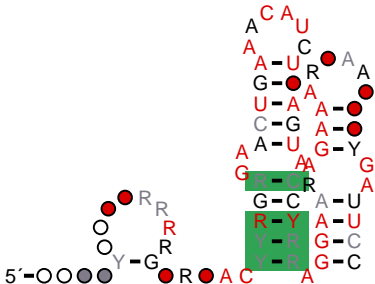
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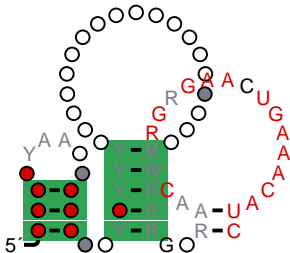
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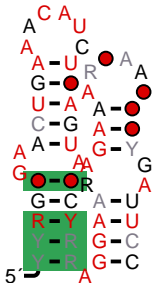
# 1njn\_motif\_12HFold.stockholm\_1



1n\_jn\_motif\_12Knotty1.stockholm\_1



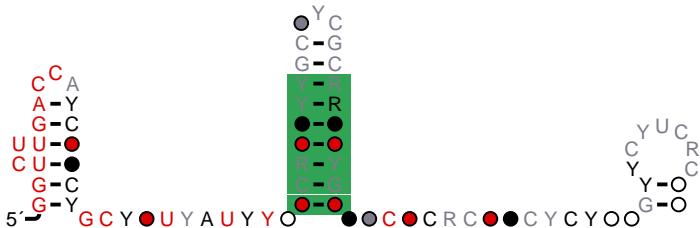
# 1nijn\_motif\_12Knotty2.stockholm\_1



1nijn\_motif\_12ScanFold.stockholm\_1

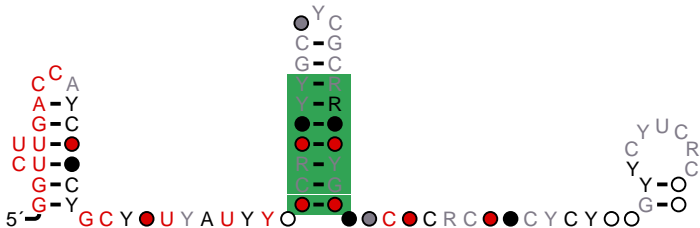


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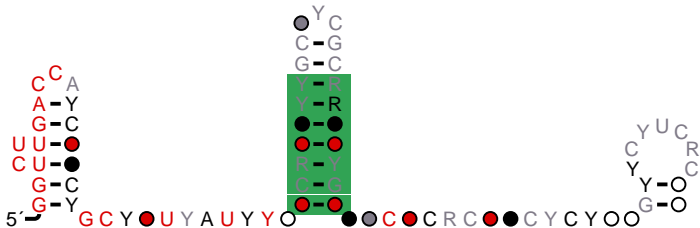




# 1njn\_motif\_13HFold.stockholm\_1



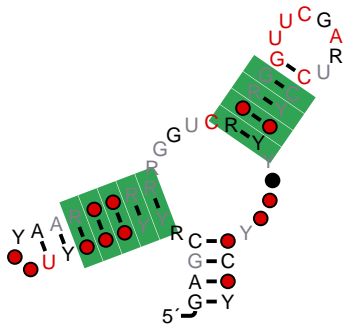
# 1njn\_motif\_13Knotty.stockholm\_1



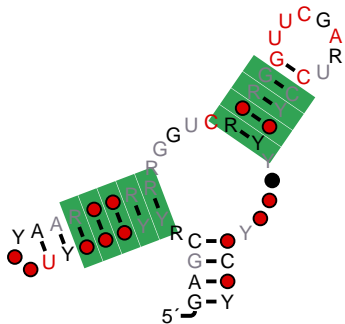
# 1njn\_motif\_13ScanFold.stockholm\_1



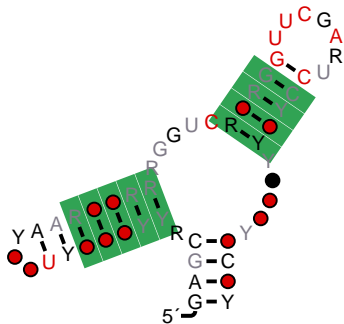
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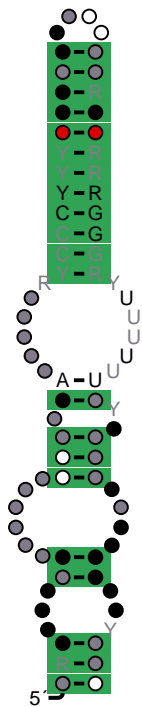
1njn\_motif\_14HFold.stockholm\_1



1njn\_motif\_14Knotty.stockholm\_1



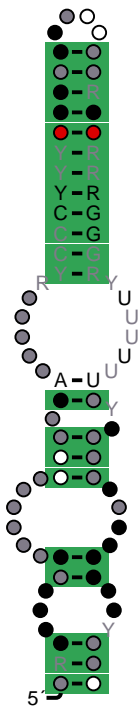
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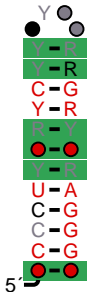




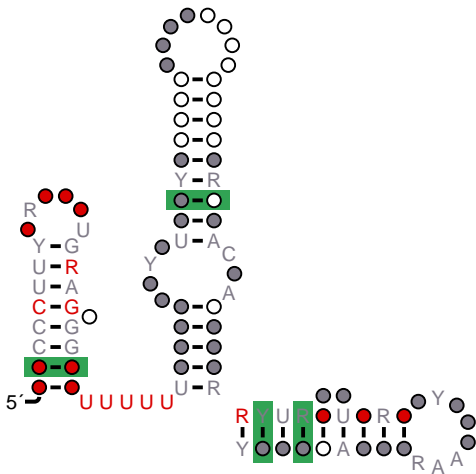
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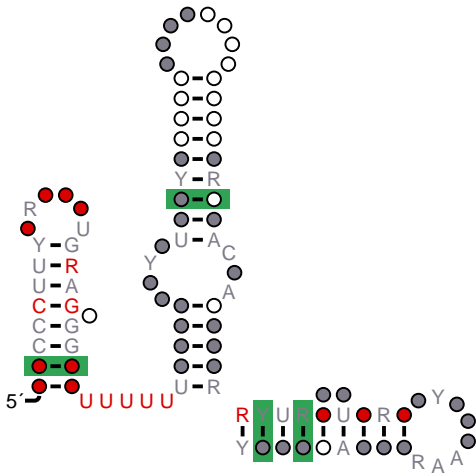
# 1njn\_motif\_15ScanFold.stockholm\_1



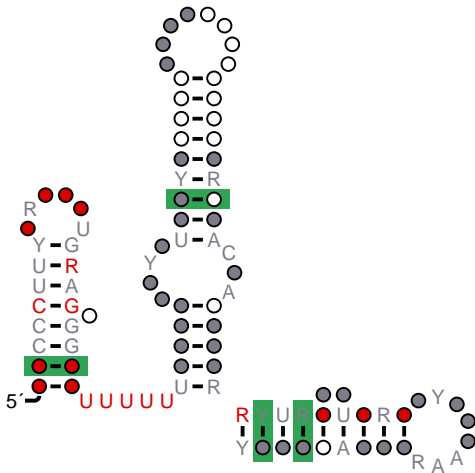
1njn\_motif\_16HFoldScanFold.stockholm\_1



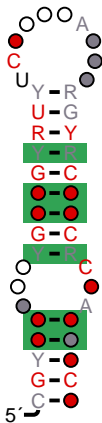
## 1njn\_motif\_16HFold.stockholm\_1



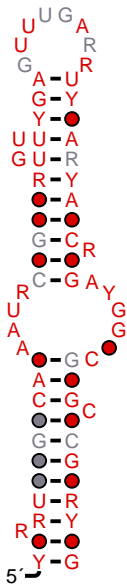
# 1njn\_motif\_16Knotty.stockholm\_1



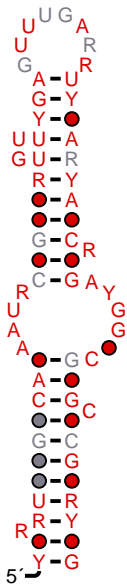
1njn\_motif\_16ScanFold.stockholm\_1



1n\_jn\_motif\_17H FoldScanFold.stockholm\_1

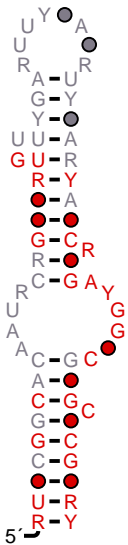


## 1njn\_motif\_17HFold.stockholm\_1

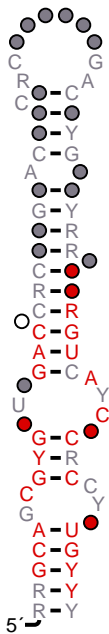




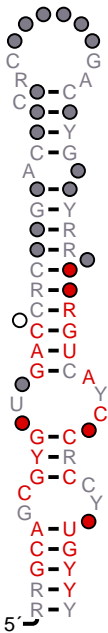
1njn\_motif\_17Knotty.stockholm\_1



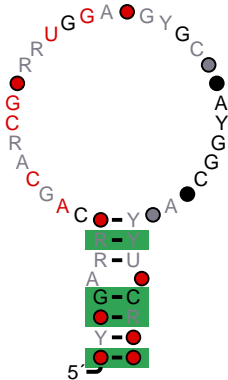
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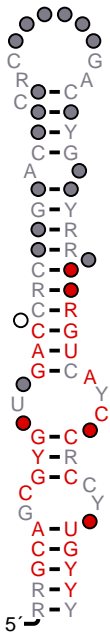
# 1njn\_motif\_18HFold.stockholm\_1



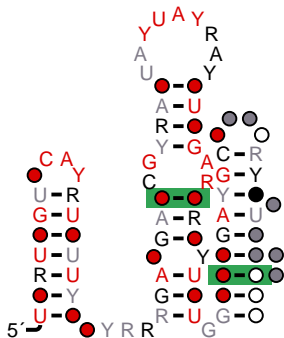
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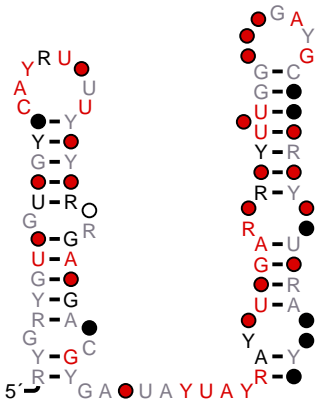
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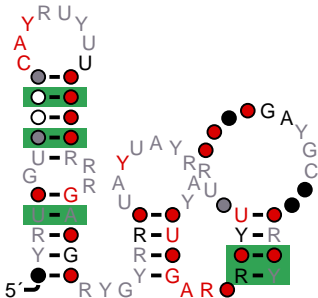
1n1n\_motif\_1HFoldScanFold.stockholm\_1



# 1njn\_motif\_1HFold.stockholm\_1

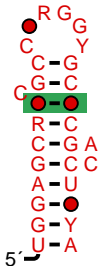


# 1njn\_motif\_1Knotty1.stockholm\_1

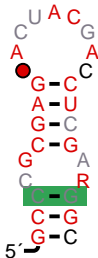




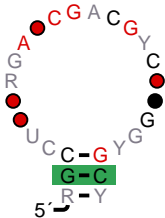
1njn\_motif\_1Knotty2.stockholm\_1



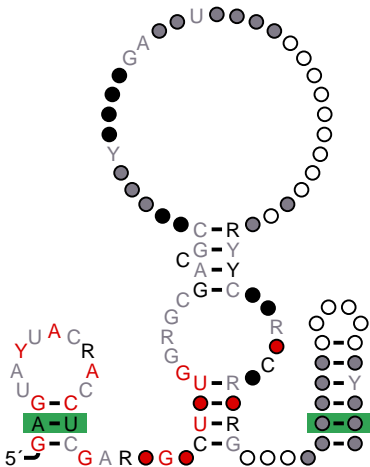
# 1njn\_motif\_1ScanFold.stockholm\_1



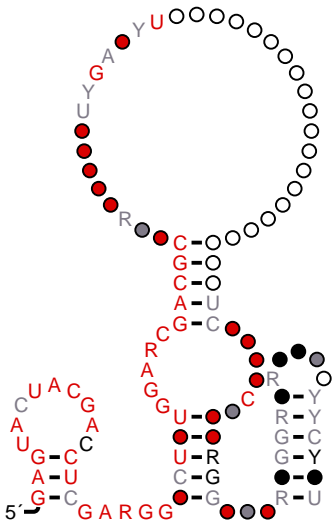
1njn\_motif\_2HFoldScanFold1.stockholm\_1



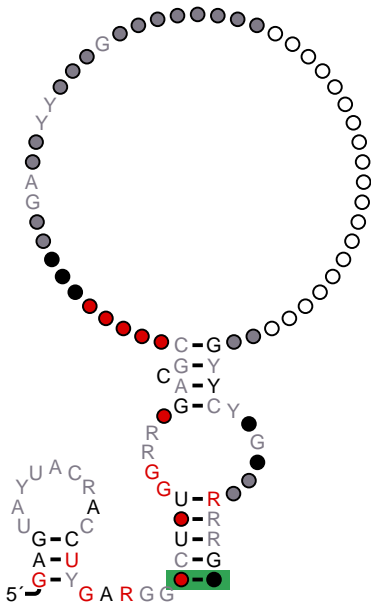
1njn\_motif\_2HFoldScanFold2.stockholm\_1



1njn\_motif\_2HFold.stockholm\_1

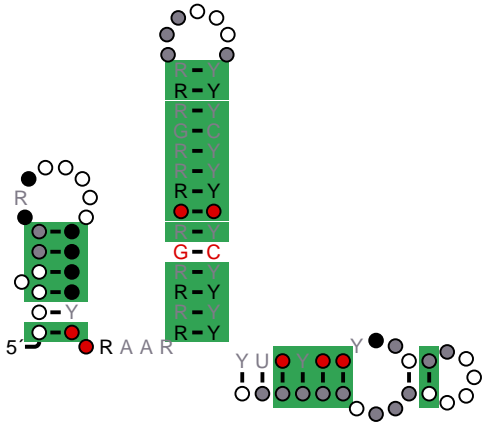


1njn\_motif\_2Knotty1.stockholm\_1





# 1njn\_motif\_3HFold.stockholm\_1

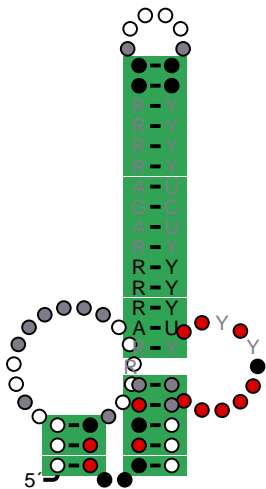




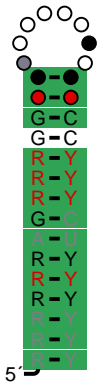
1n\_jn\_motif\_3Knotty1.stockholm\_1



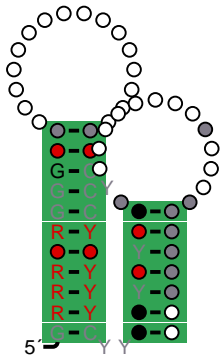
1njn\_motif\_3Knotty2.stockholm\_1



1njn\_motif\_3ScanFold.stockholm\_1



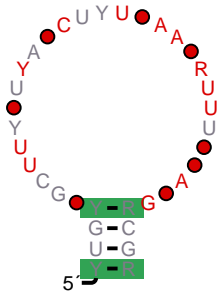
# 1njn\_motif\_4Knotty1.stockholm\_1



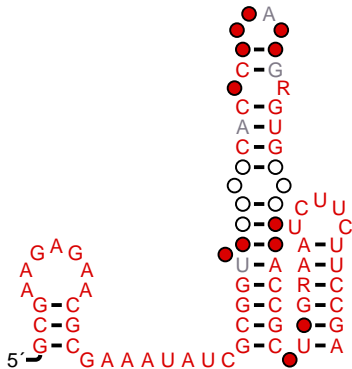
1njn\_motif\_4Knotty2.stockholm\_1



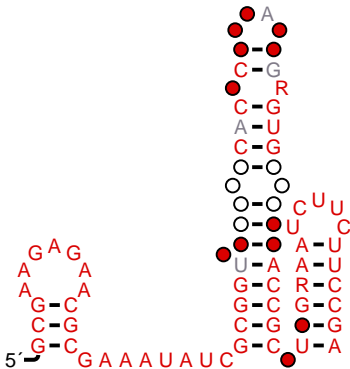
1njn\_motif\_6HFoldScanFold1.stockholm\_1



# 1njn\_motif\_7HFoldScanFold.stockholm\_1

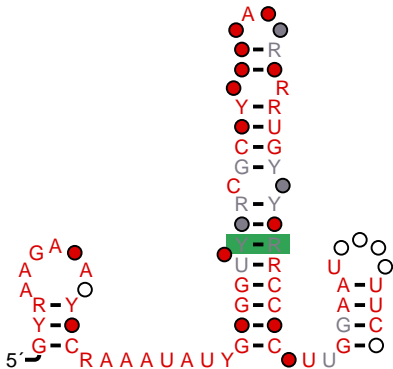


# 1njn\_motif\_7HFold.stockholm\_1

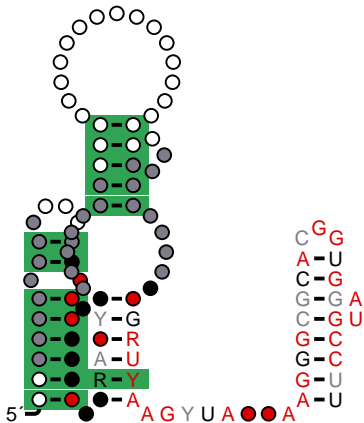




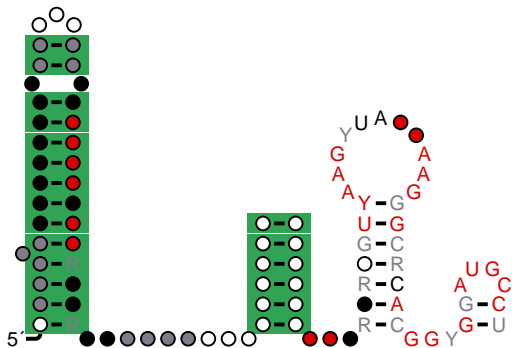
# 1njn\_motif\_7Knotty1.stockholm\_1



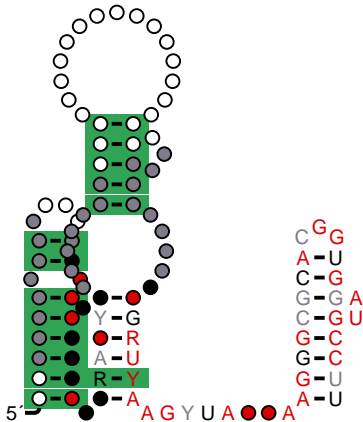
1nijn\_motif\_8HFoldScanFold.stockholm\_1



1njn\_motif\_8HFold.stockholm\_1



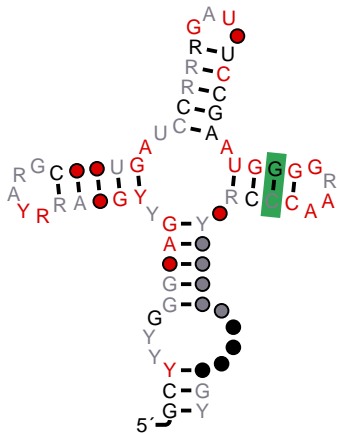
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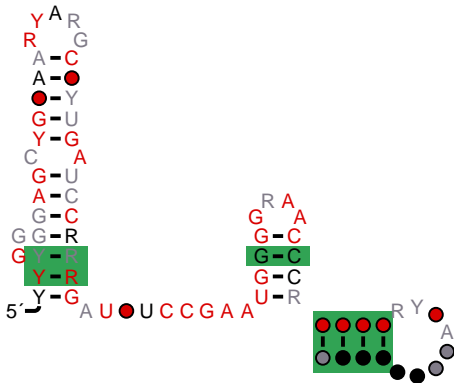
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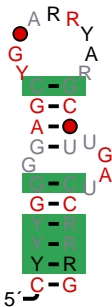
1nijn\_motif\_9HFoldScanFold.stockholm\_1



# 1njn\_motif\_9HFold.stockholm\_1

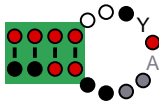
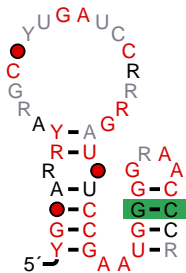


1njn\_motif\_9Knotty1.stockholm\_1





# 1nijn\_motif\_9Knotty2.stockholm\_1



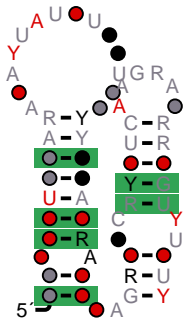
1oq0\_motif\_1Knotty1.stockholm\_1



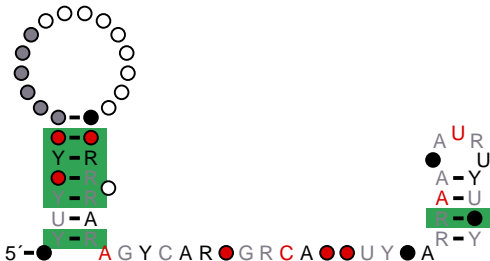
# 1oq0\_motif\_1 ScanFold.stockholm\_1



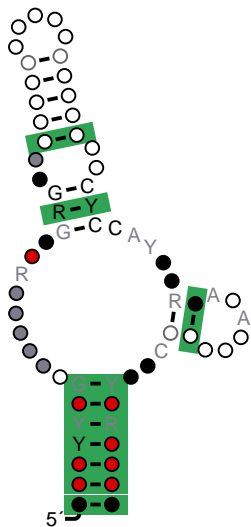
## 1oq0\_motif\_2HFold.stockholm\_1



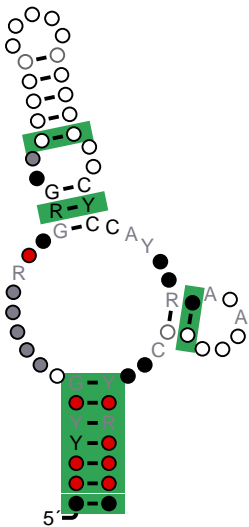
# 1oq0\_motif\_2Knotty1.stockholm\_1



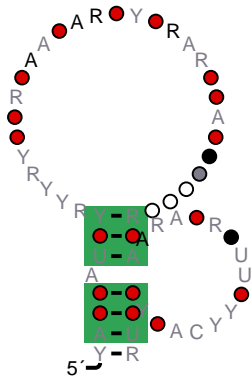
1oq0\_motif\_3HFoldScanFold.stockholm\_1



1oq0\_motif\_3HFold.stockholm\_1

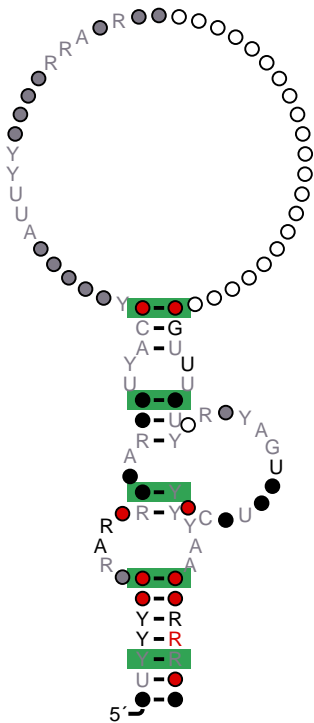


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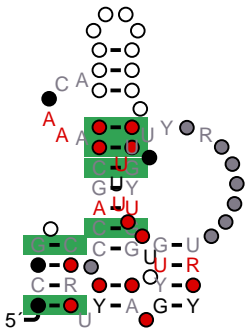




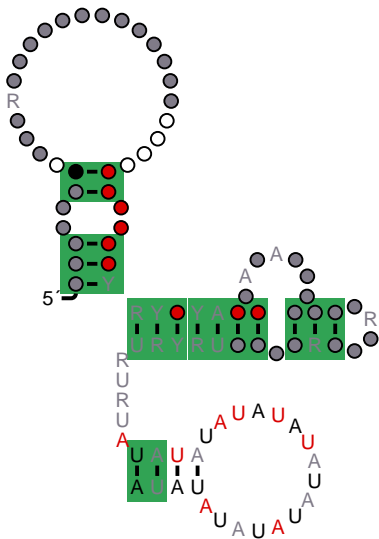
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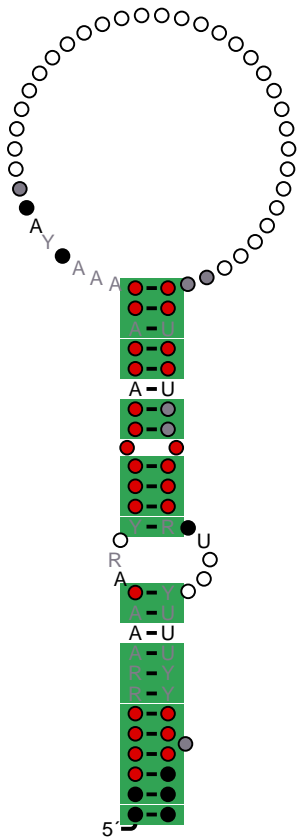
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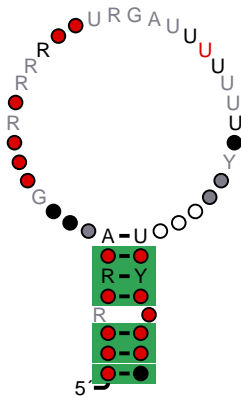
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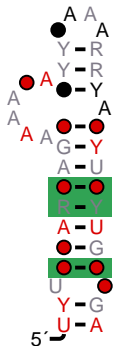
1oq0\_motif\_4Knotty1.stockholm\_1



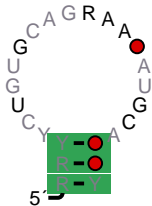
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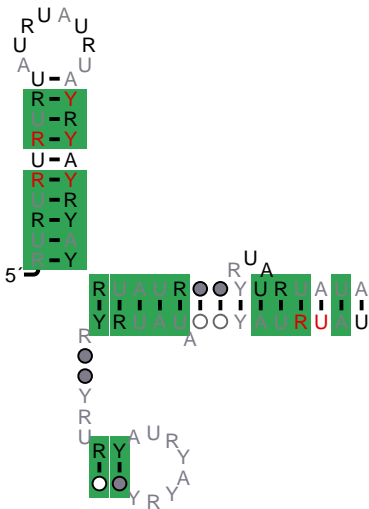
# 1oq0\_motif\_4ScanFold.stockholm\_1



1oq0\_motif\_5HFoldScanFold1.stockholm\_1

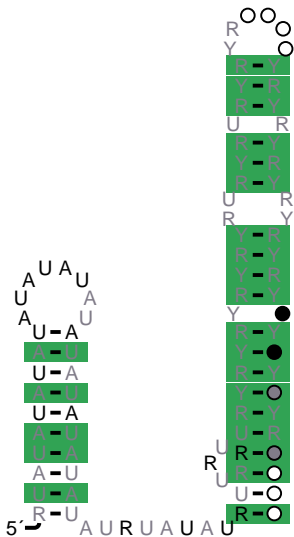


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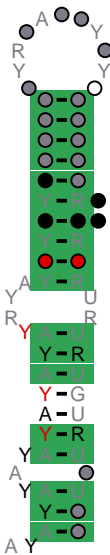
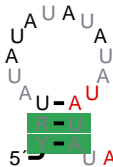




# 1oq0\_motif\_5HFold.stockholm\_1



1oq0\_motif\_5Knotty1.stockholm\_1





# 1oq0\_motif\_5ScanFold.stockholm\_1



1q9a\_motif\_1HFoldScanFold.stockholm\_1



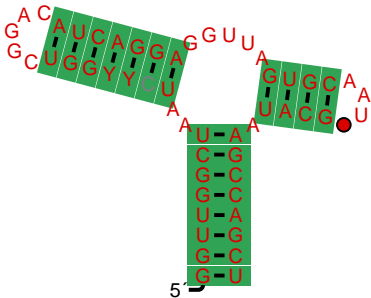
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# 1q9a\_motif\_1Knotty.stockholm\_1



# 1q9a\_motif\_1ScanFold.stockholm\_1

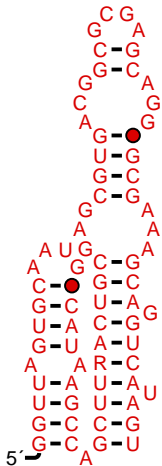




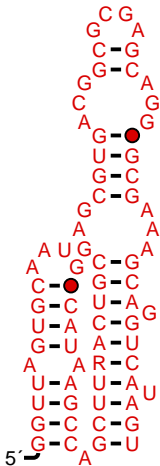
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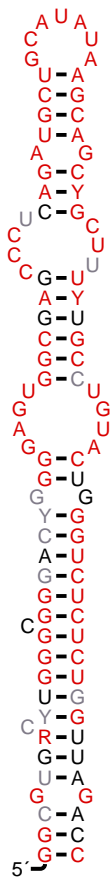


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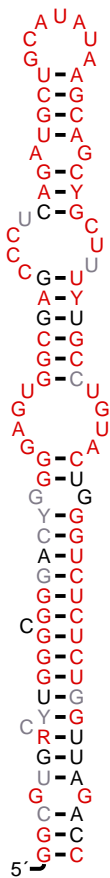


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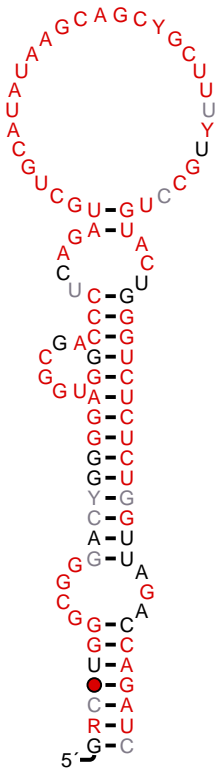


# 1qd3\_motif\_1HFold.stockholm\_1

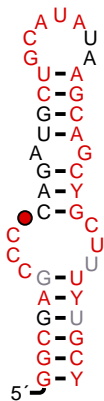


1qd3\_motif\_1Knotty1.stockholm\_1

1qd3\_motif\_1Knotty2.stockholm\_1

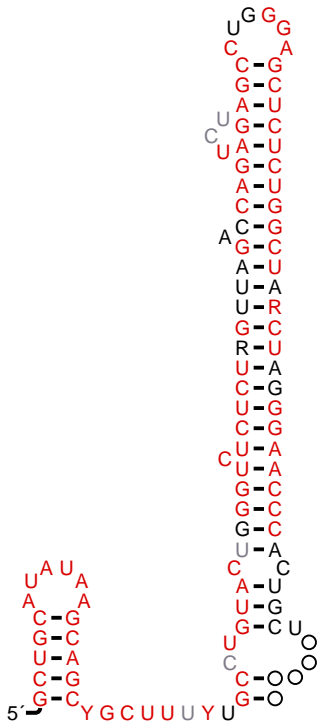


1 qd3\_motif\_1 ScanFold.stockholm\_1

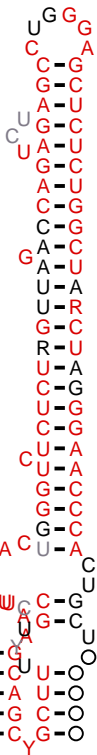




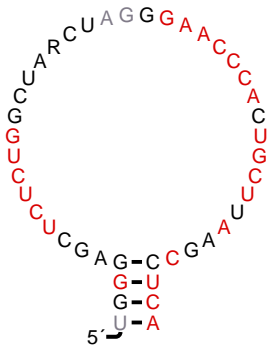
1qd3\_motif\_2HFoldScanFold.stockholm\_1



5'



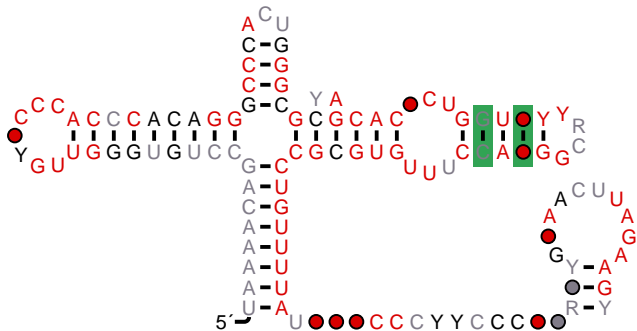
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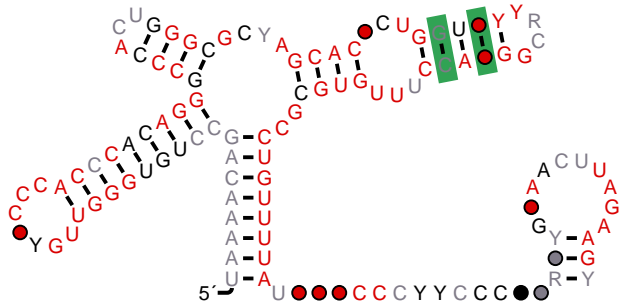
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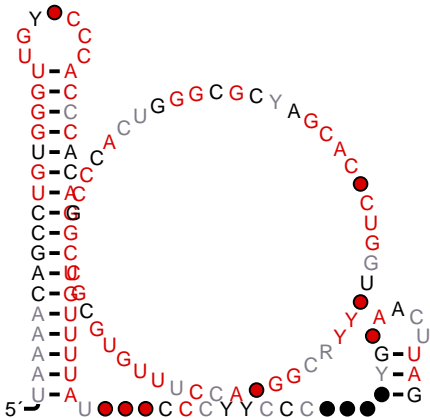
1rfr\_motif\_1HFoldScanFold.stockholm\_1



1 rfr\_motif\_1 HFold.stockholm\_1



## 1rfr\_motif\_1Knotty1.stockholm\_1



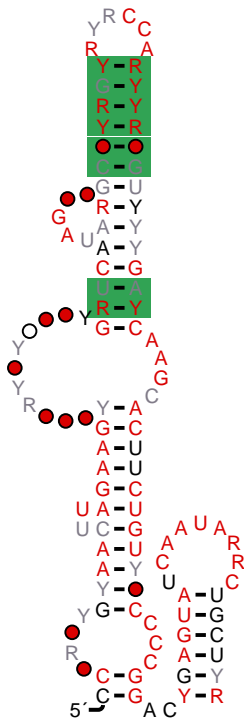


1 rfr\_motif\_1 Knotty2.stockholm\_1

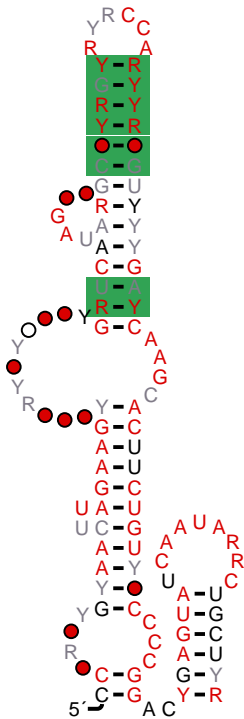


## 1rfr\_motif\_1ScanFold.stockholm\_1

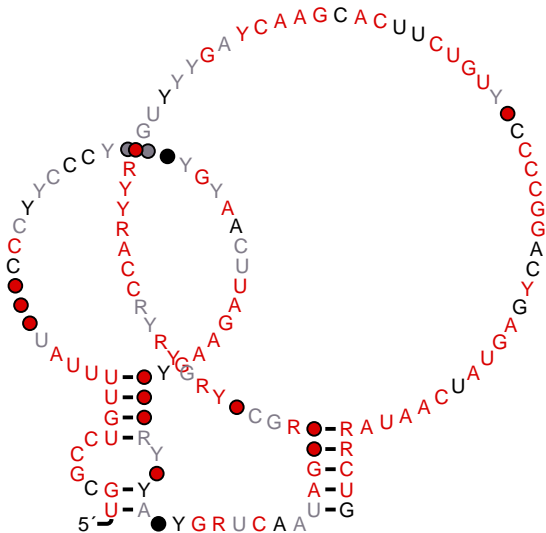




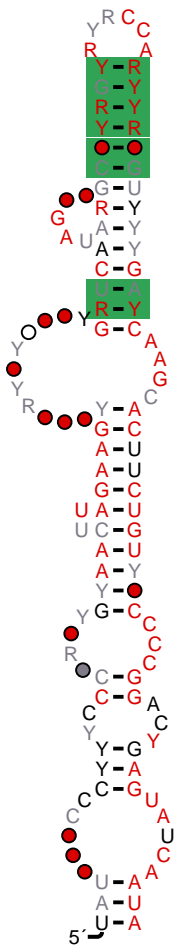
## 1rfr\_motif\_2HFold.stockholm\_1



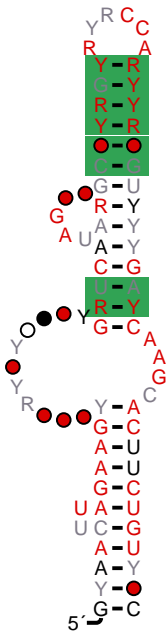
1rfr\_motif\_2Knotty1.stockholm\_1



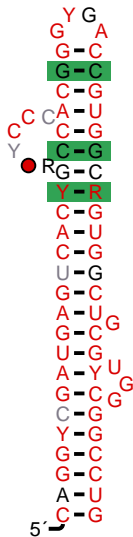
## 1rfr\_motif\_2Knotty2.stockholm\_1



## 1rfr\_motif\_2ScanFold.stockholm\_1

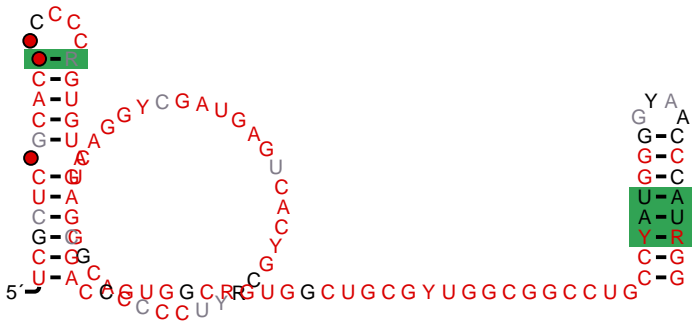


1rrf\_motif\_3HFoldScanFold1.stockholm\_1

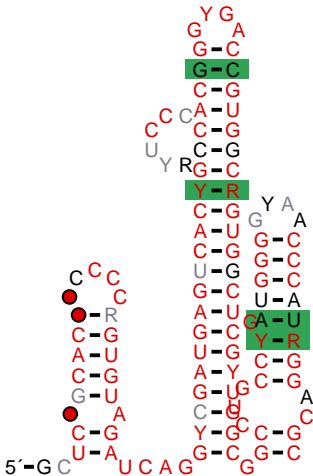




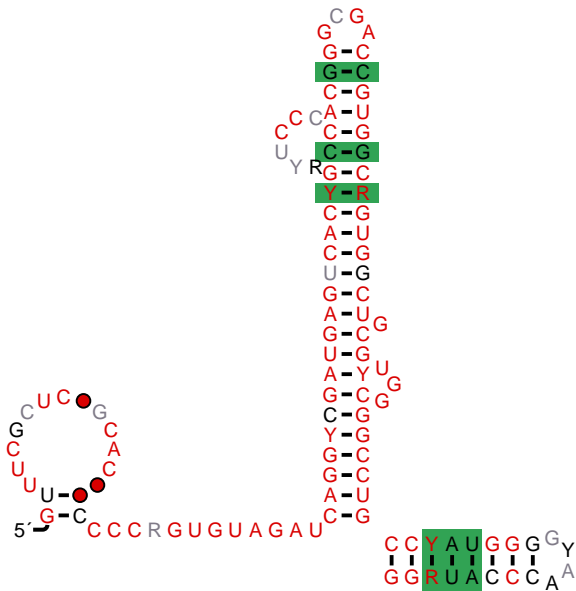
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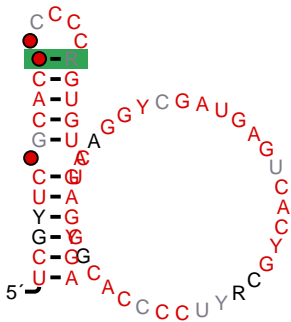
# 1rfr\_motif\_3HFold.stockholm\_1



# 1rrf\_motif\_3Knotty1.stockholm\_1

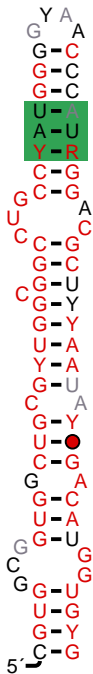


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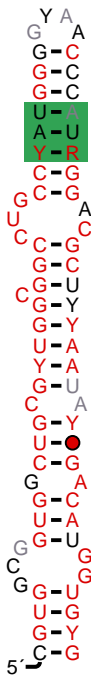




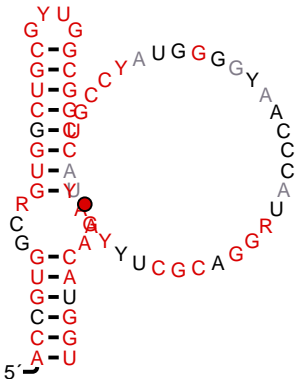
1rrf\_motif\_4HFoldScanFold.stockholm\_1



# 1rrf\_motif\_4HFold.stockholm\_1

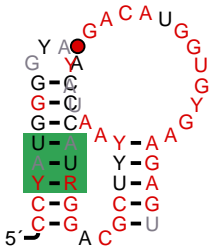


## 1rfr\_motif\_4Knotty1.stockholm\_1

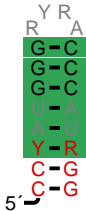




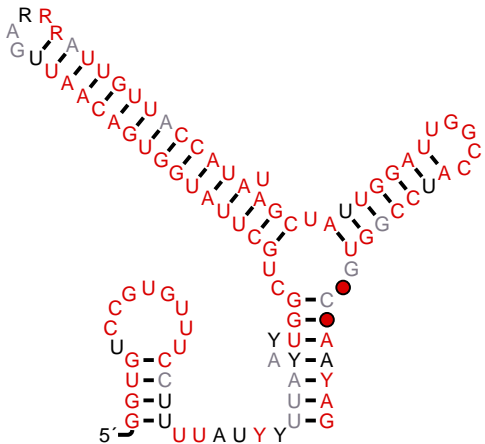
# 1 rfr\_motif\_4Knotty2.stockholm\_1



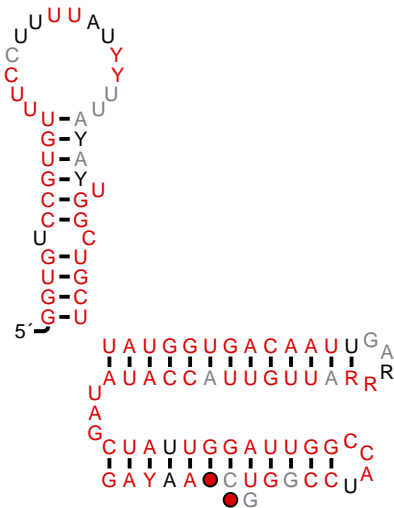
# 1rfr\_motif\_4ScanFold.stockholm\_1



1rfr\_motif\_5HFoldScanFold.stockholm\_1



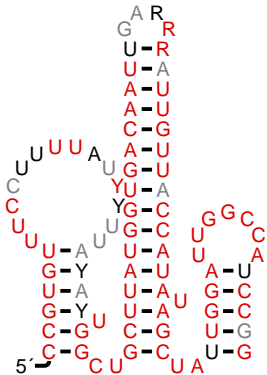
# 1rrf\_motif\_5HFold.stockholm\_1



1rfr\_motif\_5Knotty1.stockholm\_1



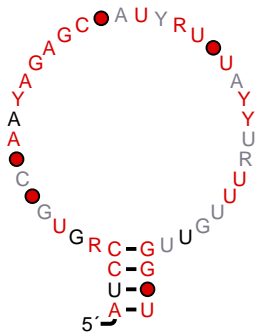
# 1rfr\_motif\_5Knotty2.stockholm\_1



# 1rfr\_motif\_5ScanFold.stockholm\_1

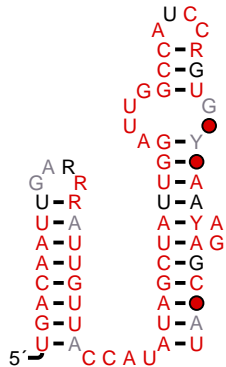


1rfr\_motif\_6HFoldScanFold1.stockholm\_1

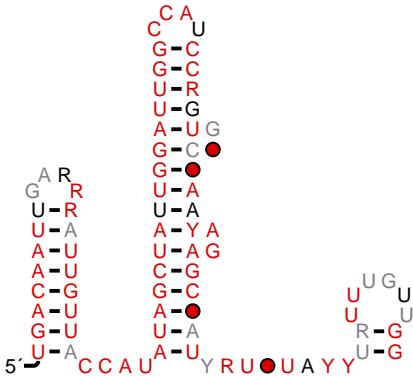




1rfr\_motif\_6HFoldScanFold2.stockholm\_1



# 1rfr\_motif\_6HFold.stockholm\_1

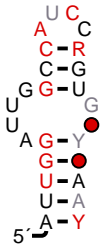


# 1rfr\_motif\_6Knotty1.stockholm\_1



The diagram illustrates the cloverleaf secondary structure of a tRNA molecule. The structure is composed of several stems and loops. The 5' end is labeled '5'-' and the 3' end is labeled 'G'. The molecule is composed of nucleotides represented by letters (A, U, G, C, Y, R) and red dots. The structure includes an acceptor stem, a D arm, an anticodon arm, and a T arm. The 5' end is labeled '5'-' and the 3' end is labeled 'G'.

# 1 rfr\_motif\_6ScanFold.stockholm\_1



## 1 rfr\_motif\_7HFoldScanFold.stockholm\_1



## 1rfr\_motif\_7HFold.stockholm\_1



1 rfr\_motif\_7Knotty1.stockholm\_1







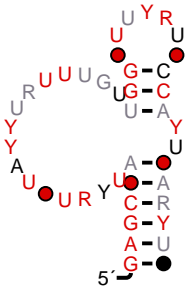
# 1rfr\_motif\_8HFoldScanFold.stockholm\_1



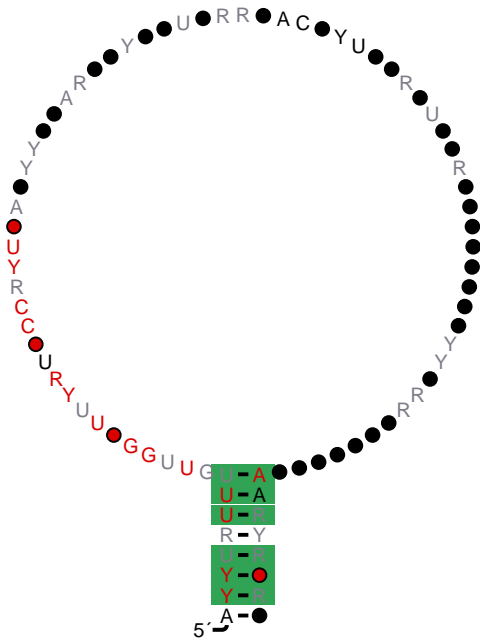
# 1rfr\_motif\_8HFold.stockholm\_1



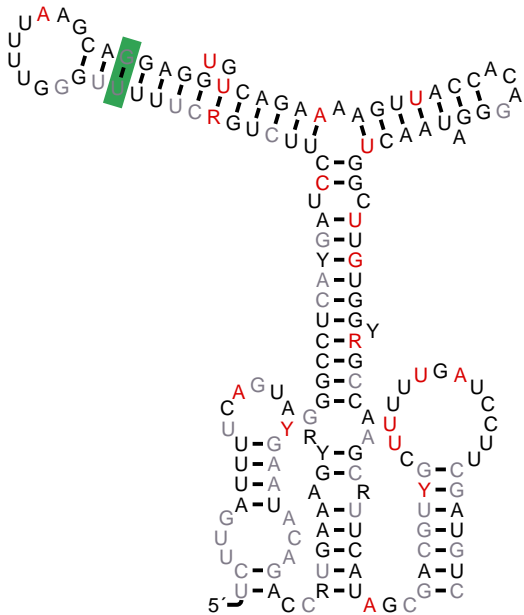
1 rfr\_motif\_8Knotty1.stockholm\_1



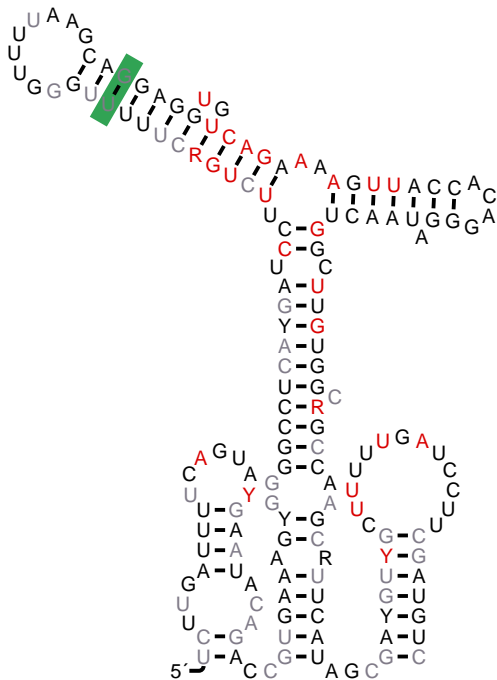
1rfr\_motif\_8Knotty2.stockholm\_1



## 1scl\_motif\_1HFoldScanFold.stockholm\_1



# 1scl\_motif\_1HFold.stockholm\_1

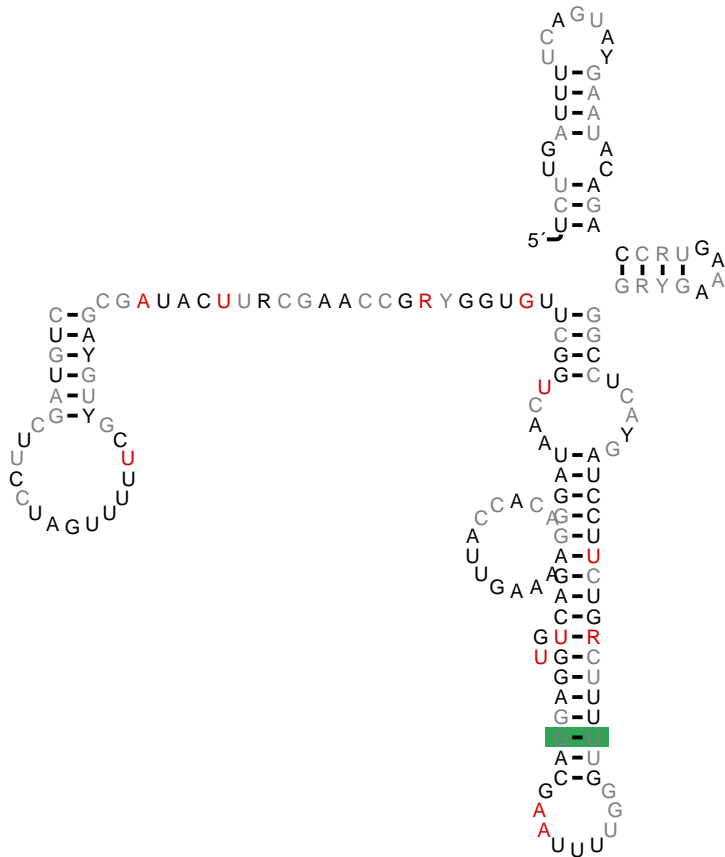


1scl\_motif\_1Knotty1.stockholm\_1

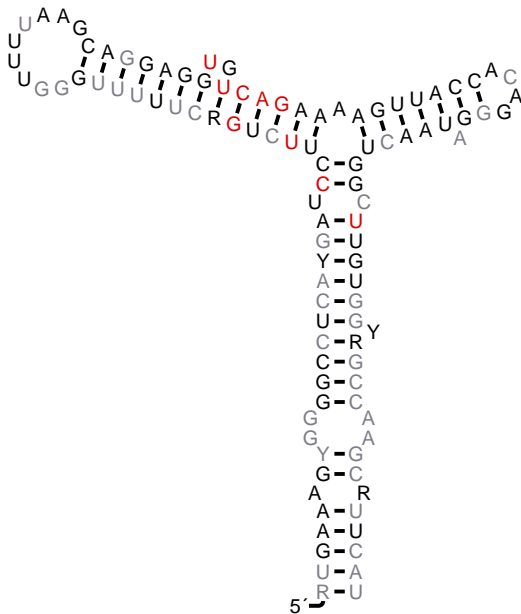


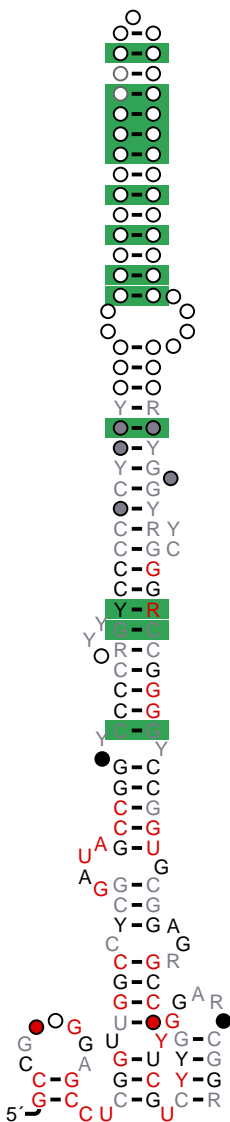


# 1scl\_motif\_1Knotty2.stockholm\_1

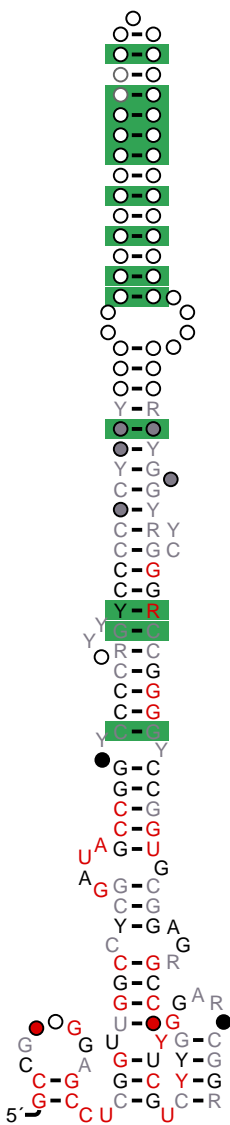


# 1scl\_motif\_1ScanFold.stockholm\_1



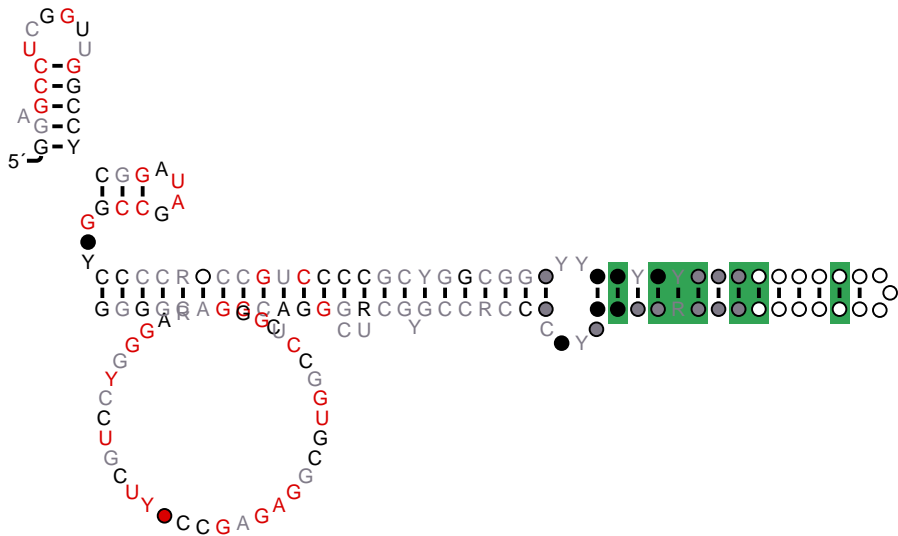


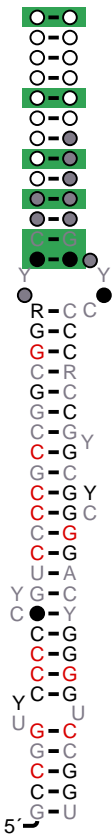
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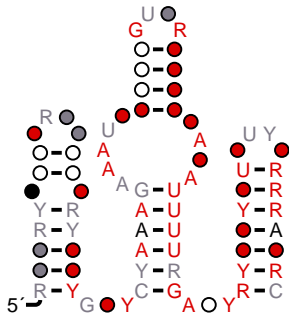


## 1scl\_motif\_2Knotty2.stockholm\_1



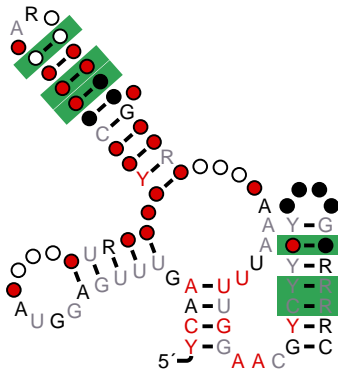


1slo\_motif\_1HFoldScanFold.stockholm\_1

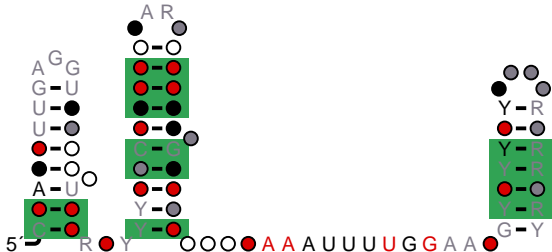




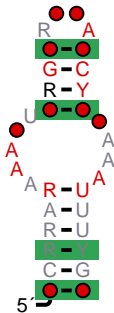
# 1slo\_motif\_1HFold.stockholm\_1



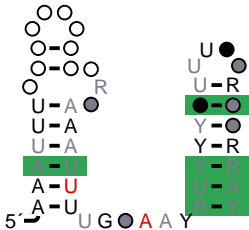
# 1slo\_motif\_1Knotty2.stockholm\_1



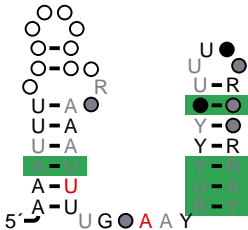
1slo\_motif\_1ScanFold.stockholm\_1



## 1slo\_motif\_2HFoldScanFold.stockholm\_1



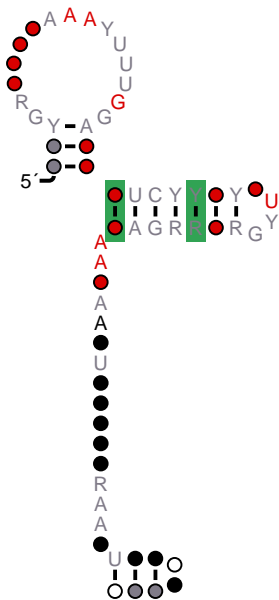
## 1slo\_motif\_2HFold.stockholm\_1



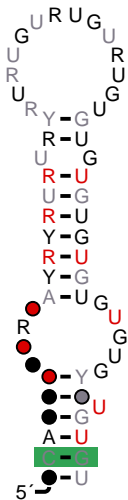
1slo\_motif\_2Knotty1.stockholm\_1



1slo\_motif\_2Knotty2.stockholm\_1

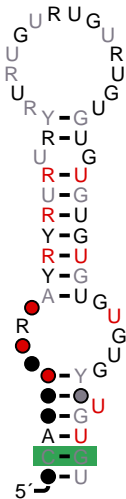


1slo\_motif\_3HFoldScanFold.stockholm\_1

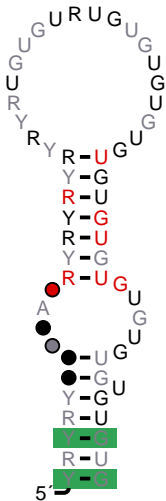




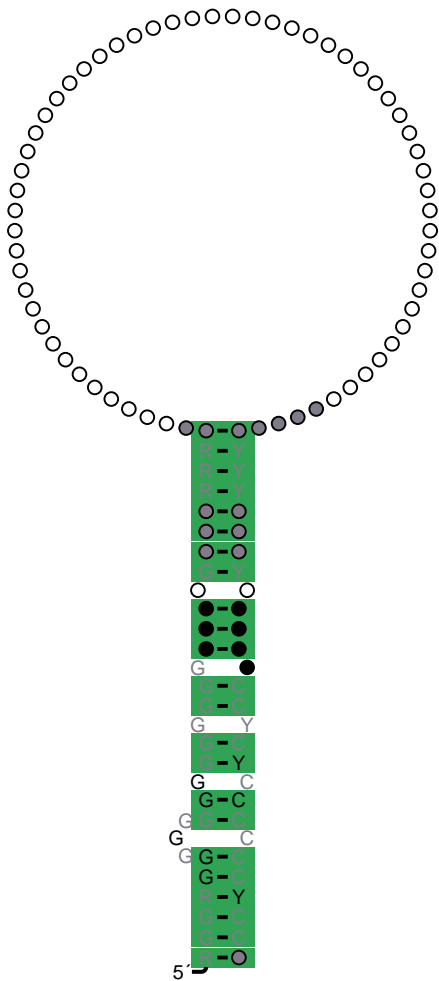
1slo\_motif\_3HFold.stockholm\_1



1slo\_motif\_3Knotty1.stockholm\_1







# 1u2a\_motif\_1HFoldScanFold.stockholm\_1



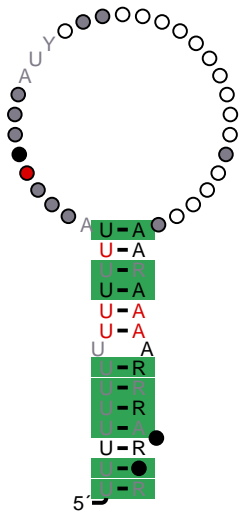
# 1u2a\_motif\_1HFold.stockholm\_1



# 1u2a\_motif\_1Knotty.stockholm\_1

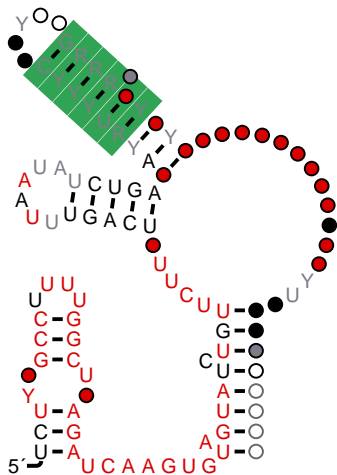


1u2a\_motif\_2HFoldScanFold1.stockholm\_1

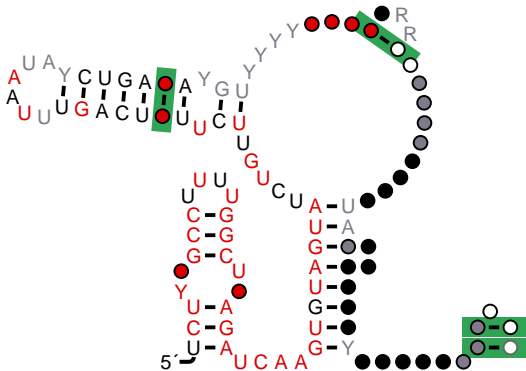




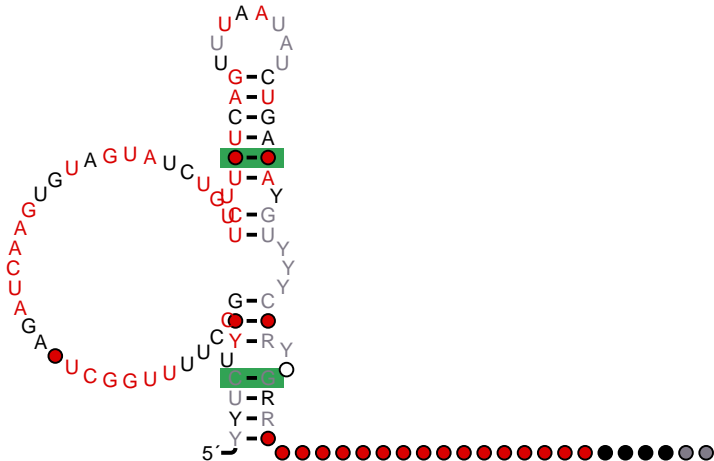
1u2a\_motif\_2HFoldScanFold2.stockholm\_1



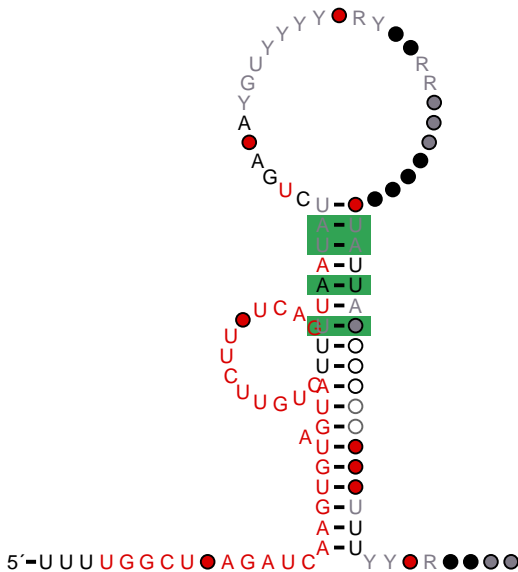
# 1u2a\_motif\_2HFold.stockholm\_1



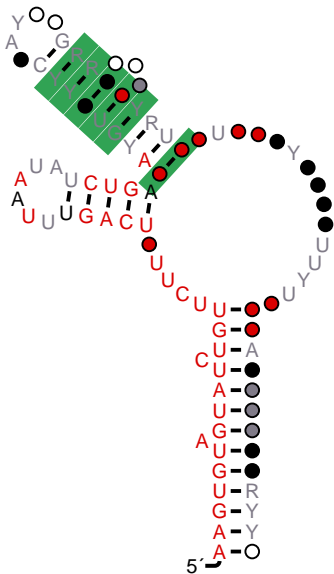
1u2a\_motif\_2Knotty1.stockholm\_1

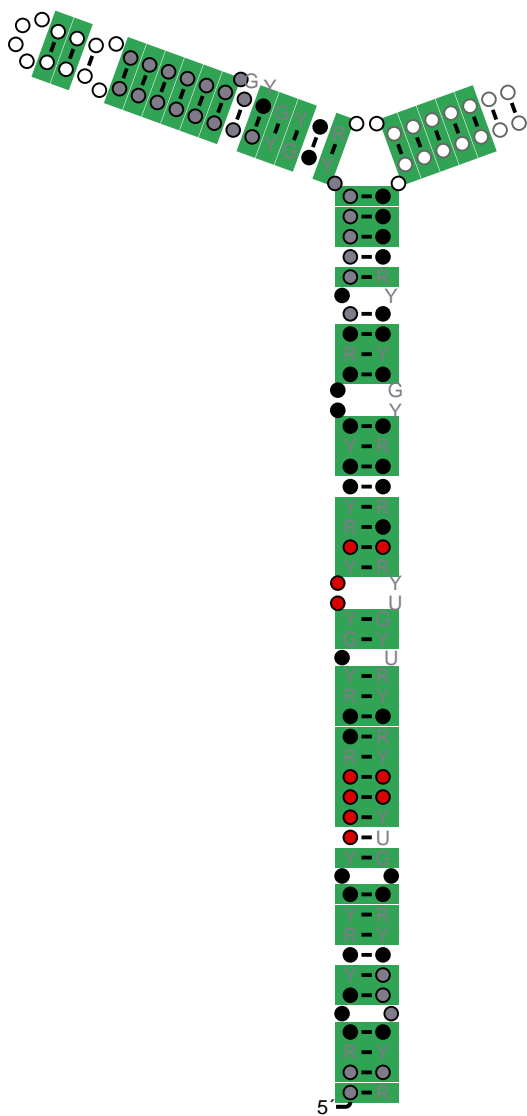


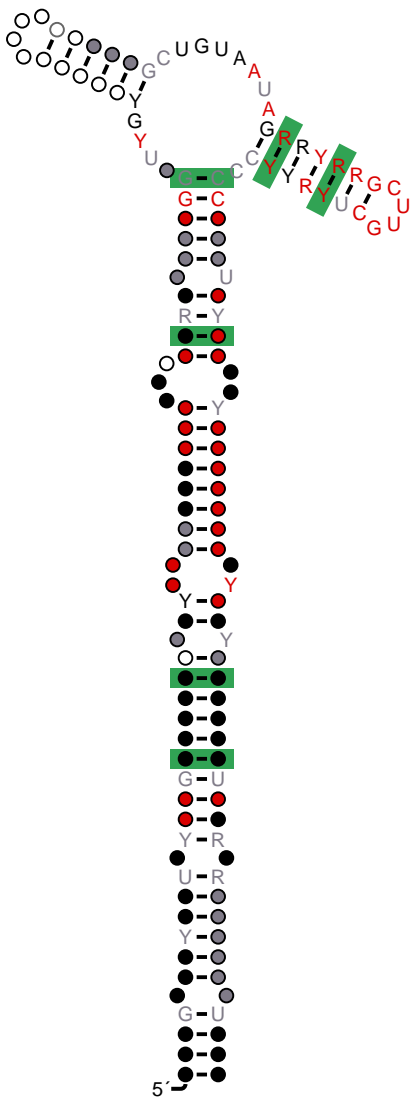
# 1u2a\_motif\_2Knotty2.stockholm\_1



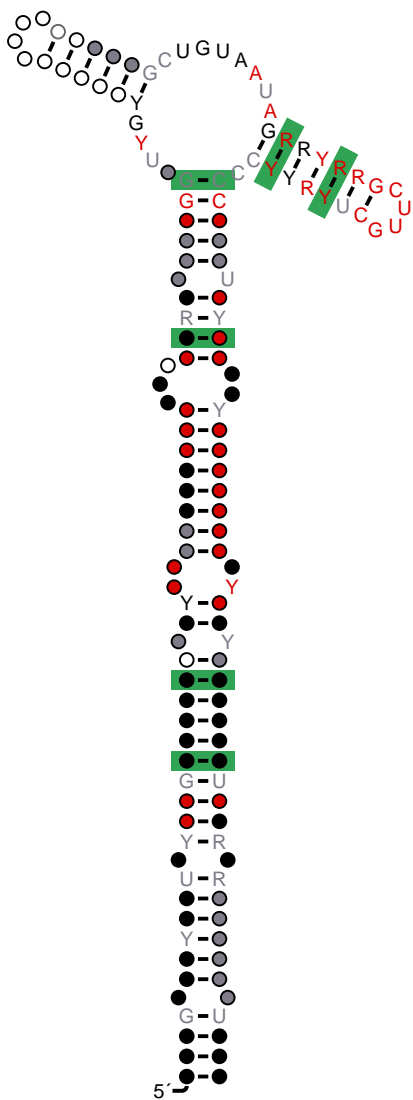
# 1u2a\_motif\_2ScanFold.stockholm\_1





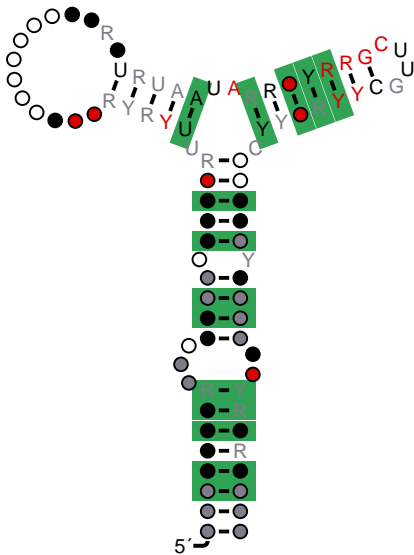


1u2a\_motif\_3Knotty.stockholm\_1

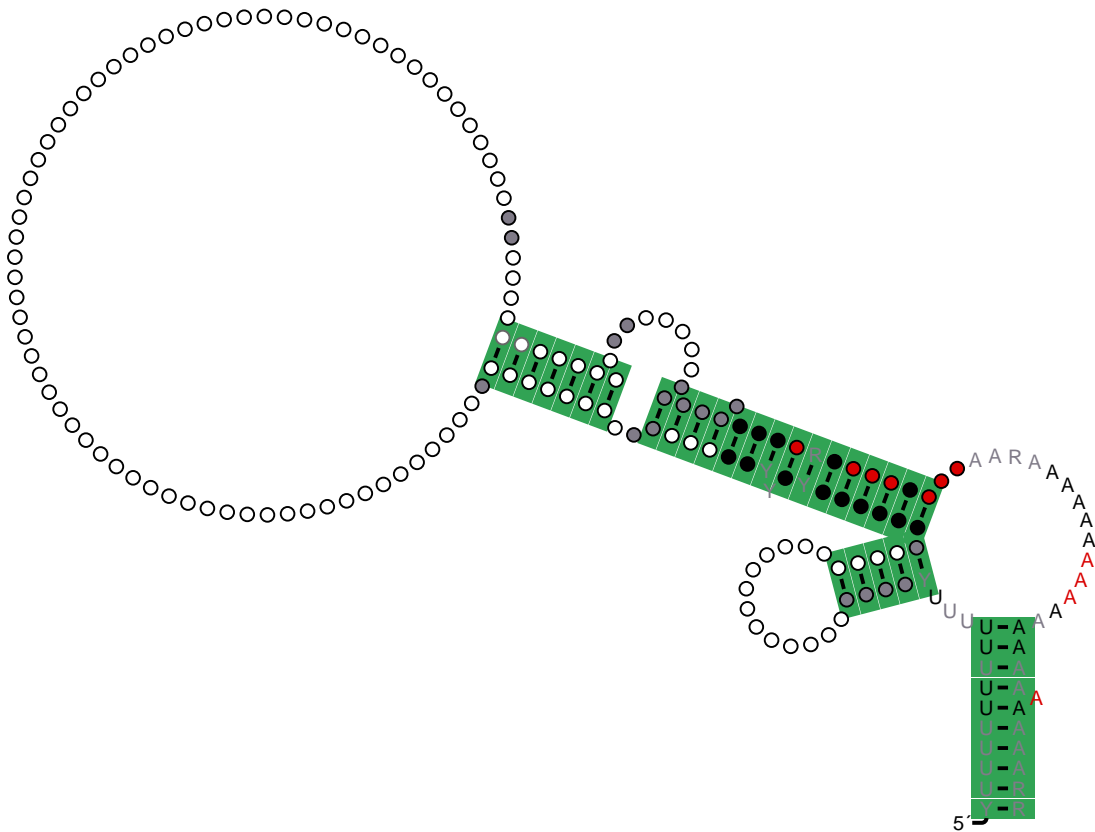




1u2a\_motif\_3ScanFold.stockholm\_1

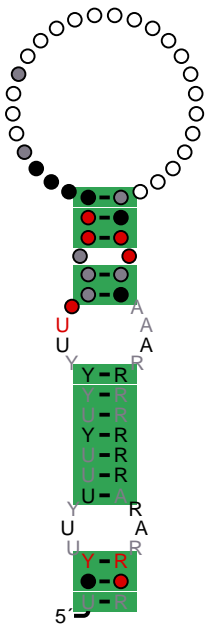


1u2a\_motif\_4HFoldScanFold.stockholm\_1

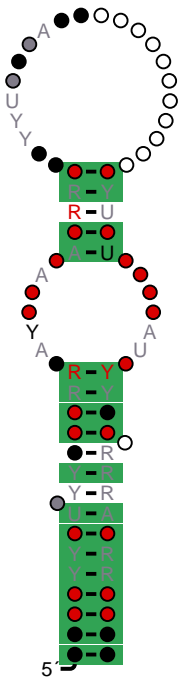




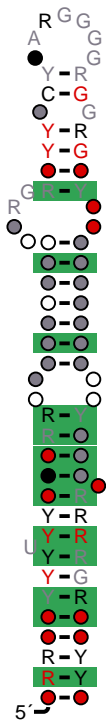
## 1u2a\_motif\_4Knotty1.stockholm\_1



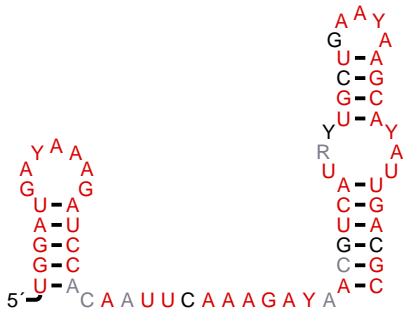
1u2a\_motif\_4Knotty2.stockholm\_1



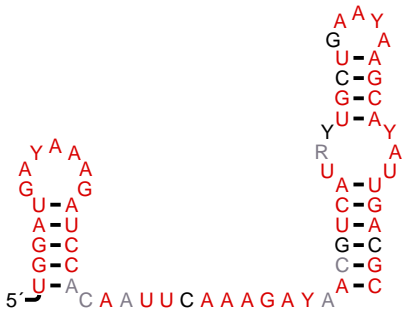
## 1u2a\_motif\_4ScanFold.stockholm\_1



# 1xjr\_motif\_10HFoldScanFold.stockholm\_1

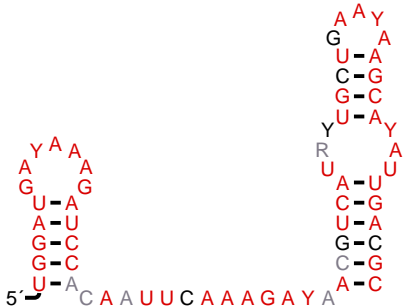


# 1xjr\_motif\_10HFold.stockholm\_1

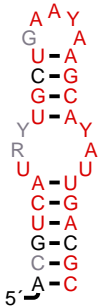




1xjr\_motif\_10Knotty.stockholm\_1



# 1xjr\_motif\_10ScanFold.stockholm\_1

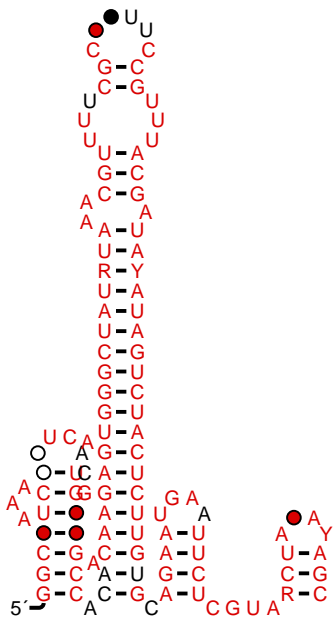


[illegible]

1xjr\_motif\_11HFoldScanFold2.stockholm\_1

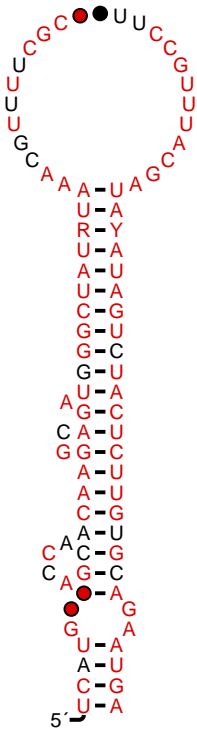


1xjr\_motif\_11HFold.stockholm\_1

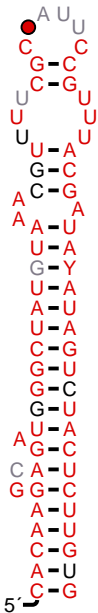




1xjr\_motif\_11Knotty2.stockholm\_1

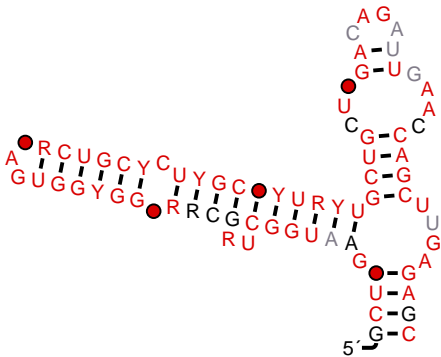


1xjr\_motif\_11ScanFold.stockholm\_1

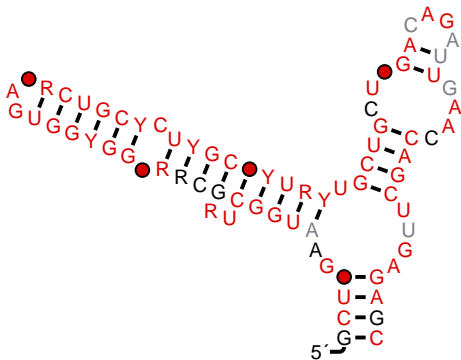




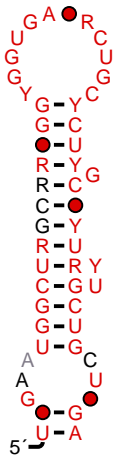
1xjr\_motif\_1 HFoldScanFold.stockholm\_1



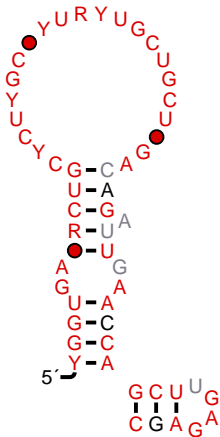
1xjr\_motif\_1 HFold.stockholm\_1



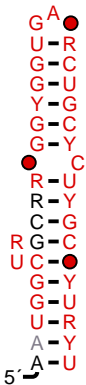
1xjr\_motif\_1Knotty1.stockholm\_1



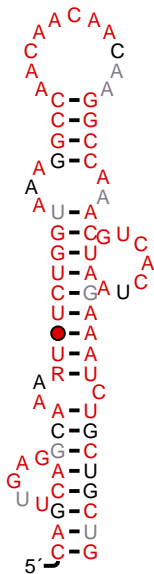
1xjr\_motif\_1Knotty2.stockholm\_1



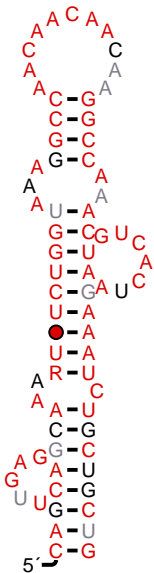
# 1xjr\_motif\_1 ScanFold.stockholm\_1



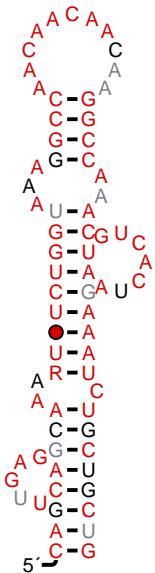
1xjr\_motif\_2HFoldScanFold.stockholm\_1



1xjr\_motif\_2HFold.stockholm\_1

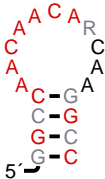


1xjr\_motif\_2Knotty.stockholm\_1

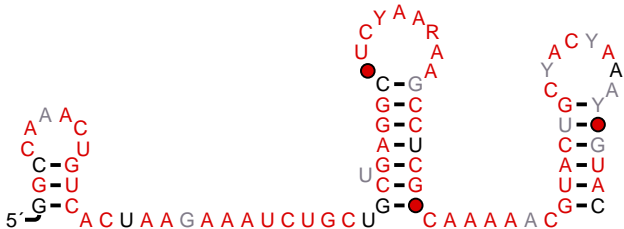




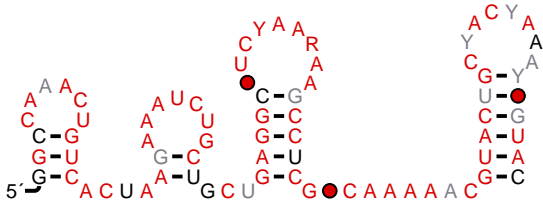
1xjr\_motif\_2ScanFold.stockholm\_1



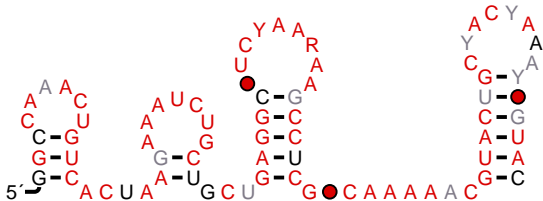
# 1xjr\_motif\_3HFoldScanFold.stockholm\_1



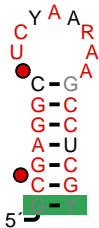
# 1xjr\_motif\_3HFold.stockholm\_1



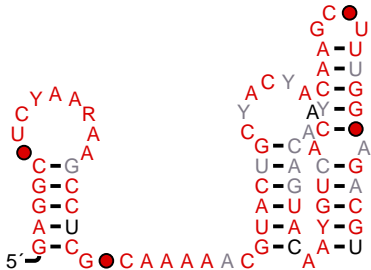
# 1xjr\_motif\_3Knotty.stockholm\_1



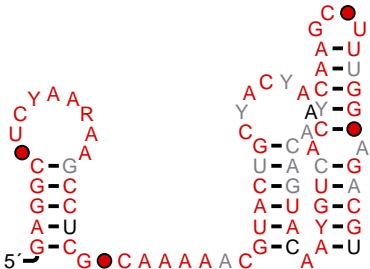
# 1xjr\_motif\_3ScanFold.stockholm\_1



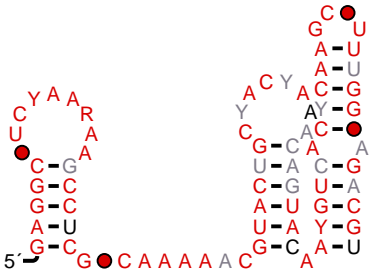
1xjr\_motif\_4HFoldScanFold.stockholm\_1



1xjr\_motif\_4HFold.stockholm\_1

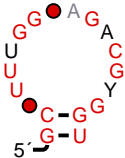


1xjr\_motif\_4Knotty1.stockholm\_1

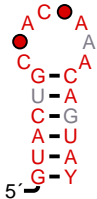




1xjr\_motif\_4Knotty2.stockholm\_1



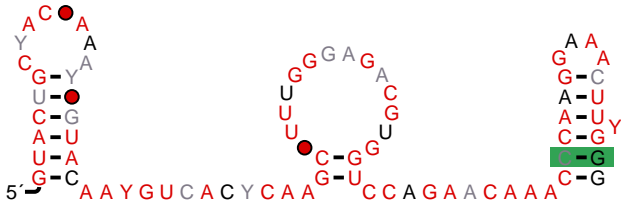
# 1xjr\_motif\_4ScanFold.stockholm\_1



# 1xjr\_motif\_5HFoldScanFold1.stockholm\_1



# 1xjr\_motif\_5HFoldScanFold2.stockholm\_1



# 1xjr\_motif\_5HFold.stockholm\_1



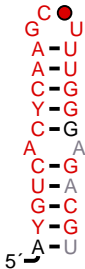
# 1xjr\_motif\_5Knotty1.stockholm\_1



# 1xjr\_motif\_5Knotty2.stockholm\_1

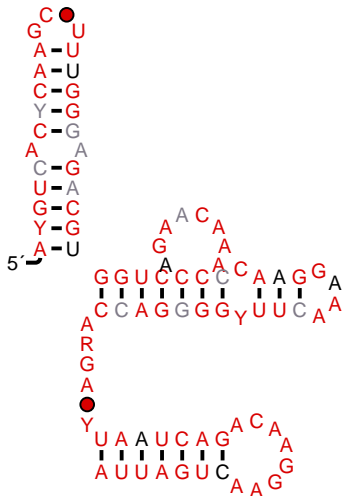


# 1xjr\_motif\_5ScanFold.stockholm\_1

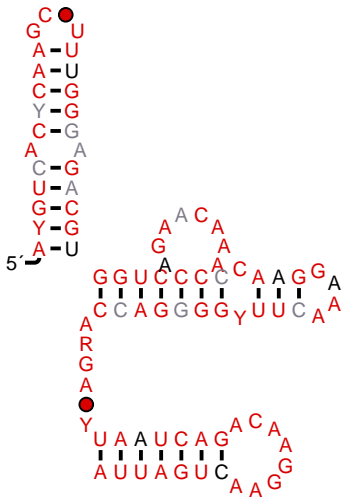




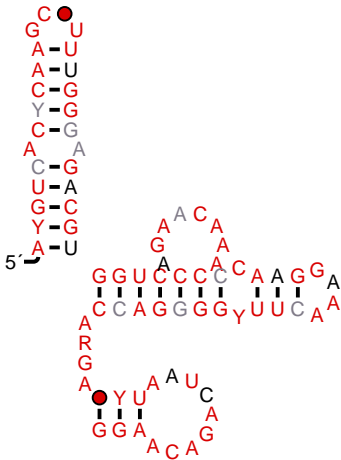
1xjr\_motif\_6HFoldScanFold.stockholm\_1



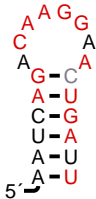
# 1xjr\_motif\_6HFold.stockholm\_1



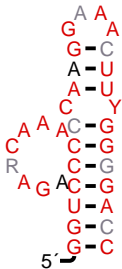
# 1xjr\_motif\_6Knotty1.stockholm\_1



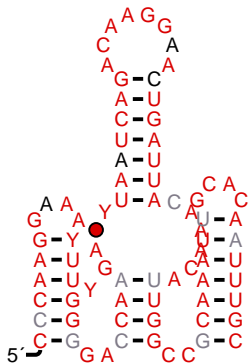
1xjr\_motif\_6Knotty2.stockholm\_1



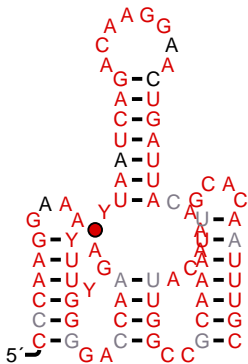
# 1xjr\_motif\_6ScanFold.stockholm\_1



1xjr\_motif\_7HFoldScanFold.stockholm\_1



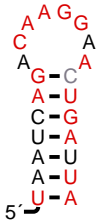
# 1xjr\_motif\_7HFold.stockholm\_1



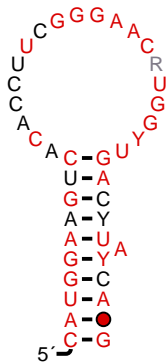




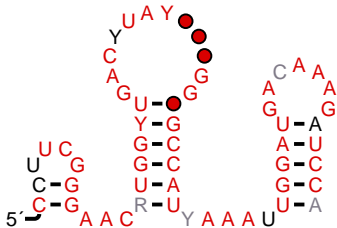
# 1xjr\_motif\_7ScanFold.stockholm\_1



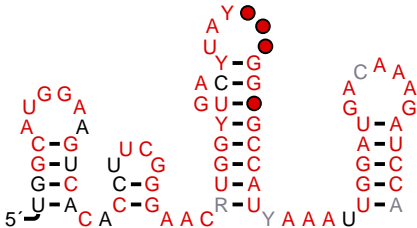
1xjr\_motif\_8HFoldScanFold1.stockholm\_1



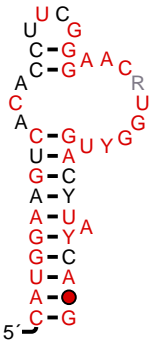
1xjr\_motif\_8HFoldScanFold2.stockholm\_1



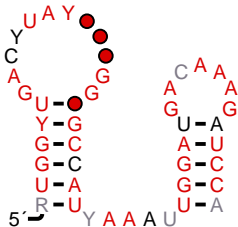
# 1xjr\_motif\_8HFold.stockholm\_1



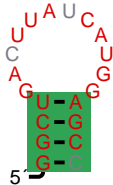
1xjr\_motif\_8Knotty1.stockholm\_1



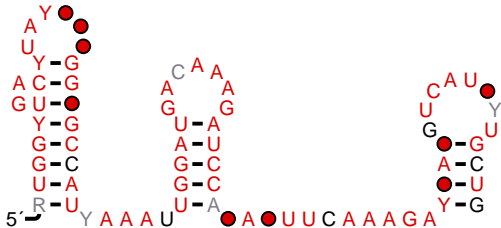
1xjr\_motif\_8Knotty2.stockholm\_1



# 1xjr\_motif\_8ScanFold.stockholm\_1

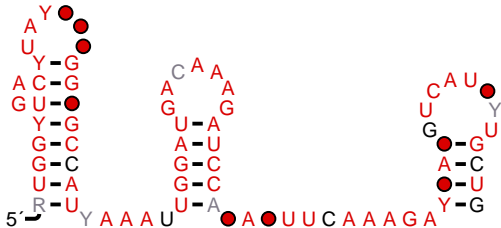


# 1xjr\_motif\_9HFoldScanFold.stockholm\_1

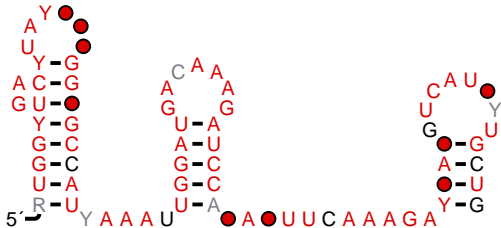




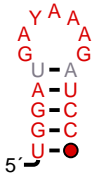
# 1xjr\_motif\_9HFold.stockholm\_1

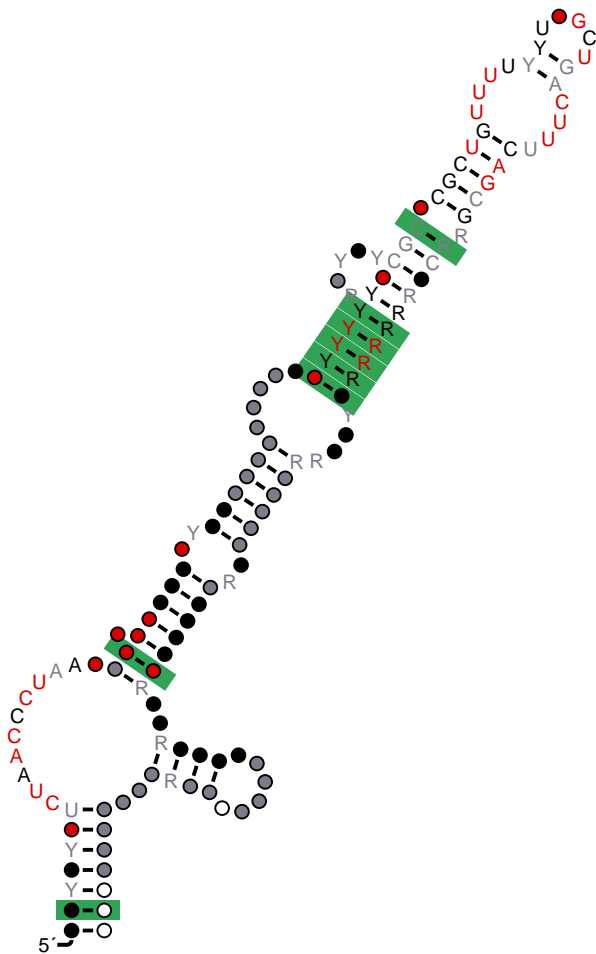


1xjr\_motif\_9Knotty.stockholm\_1

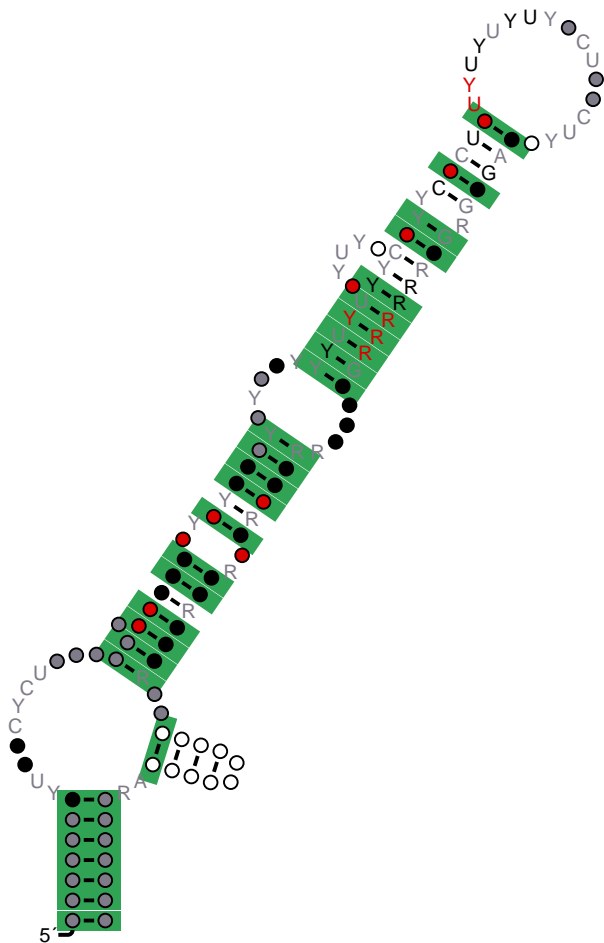


# 1xjr\_motif\_9ScanFold.stockholm\_1

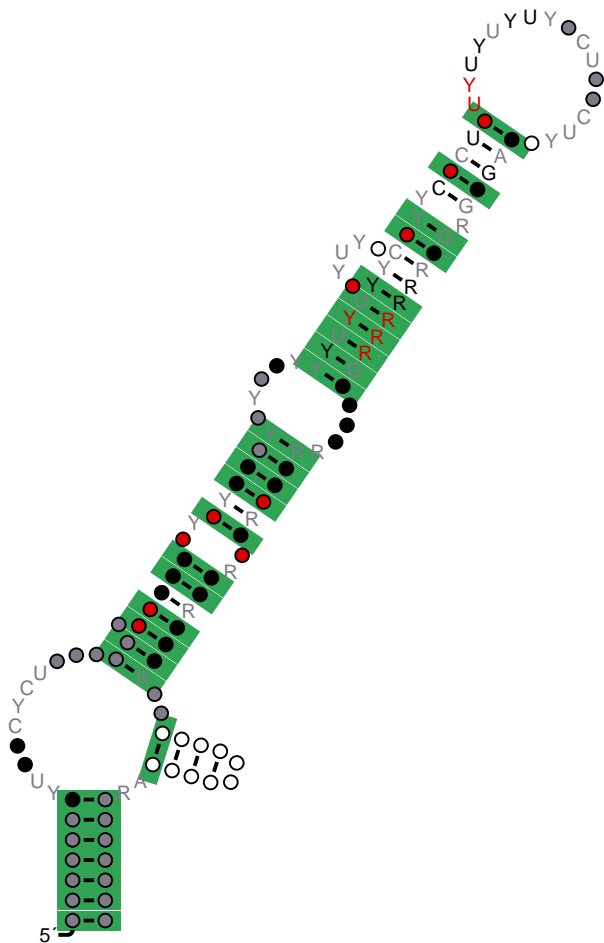




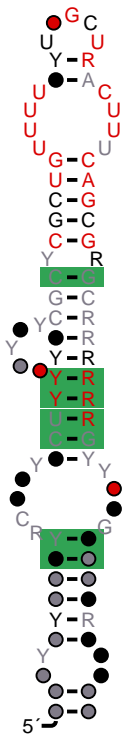
# 1ymo\_motif\_1HFold.stockholm\_1



# 1ymo\_motif\_1Knotty.stockholm\_1



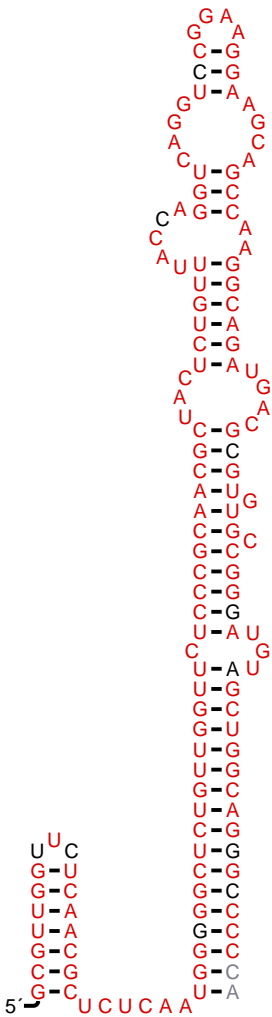
# 1ymo\_motif\_1 ScanFold.stockholm\_1



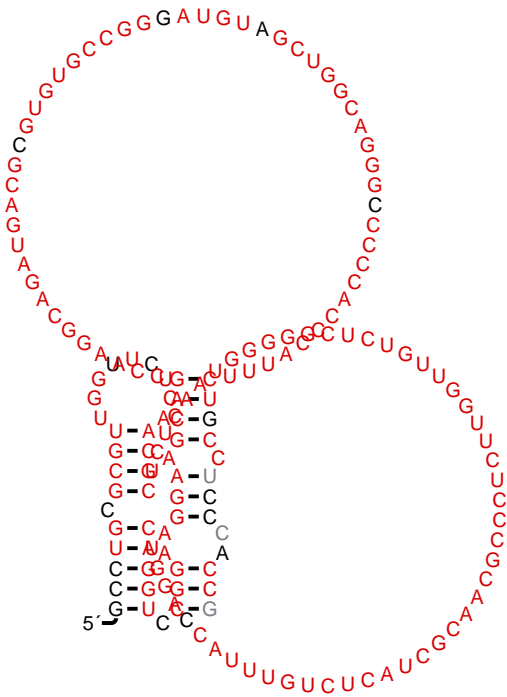




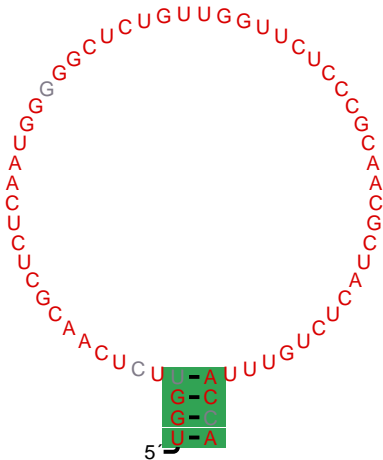
## 28sp\_motif\_1HFold.stockholm\_1



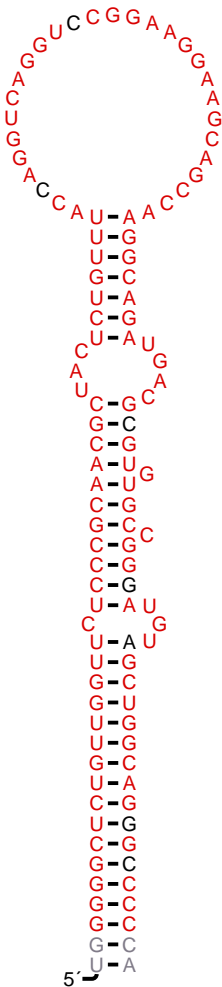
## 28sp\_motif\_1Knotty1.stockholm\_1



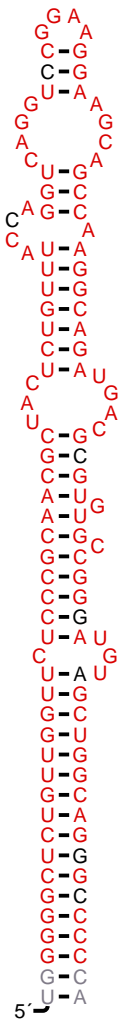
28sp\_motif\_1Knotty2.stockholm\_1



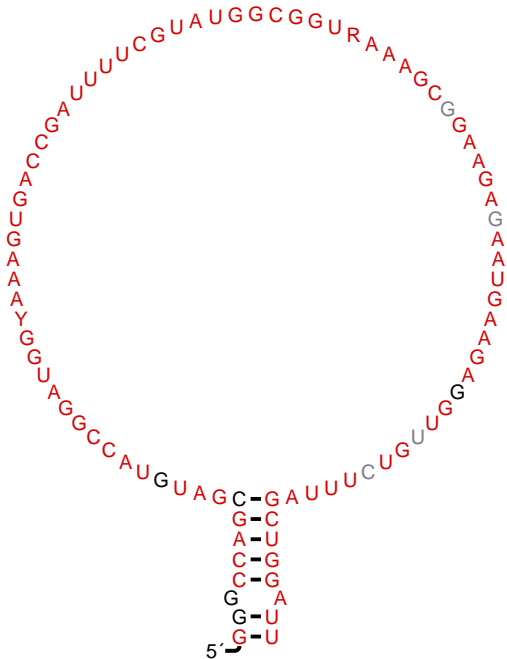
28sp\_motif\_1Knotty3.stockholm\_1



# 28sp\_motif\_1ScanFold.stockholm\_1

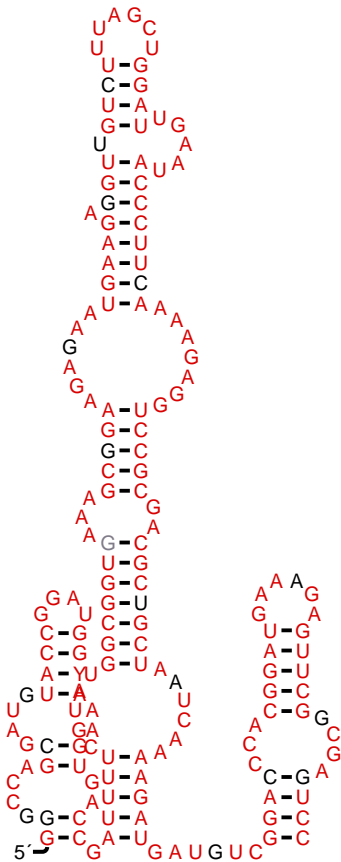


28sp\_motif\_2HFoldScanFold1.stockholm\_1





## 28sp\_motif\_2HFold.stockholm\_1

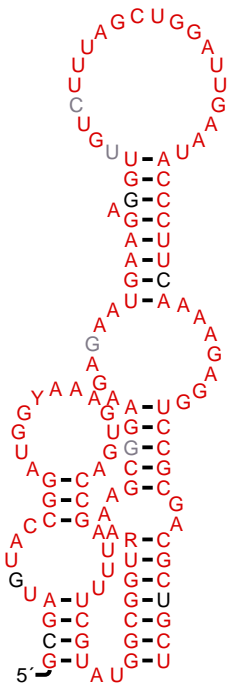




28sp\_motif\_2Knotty1.stockholm\_1



28sp\_motif\_2Knotty2.stockholm\_1

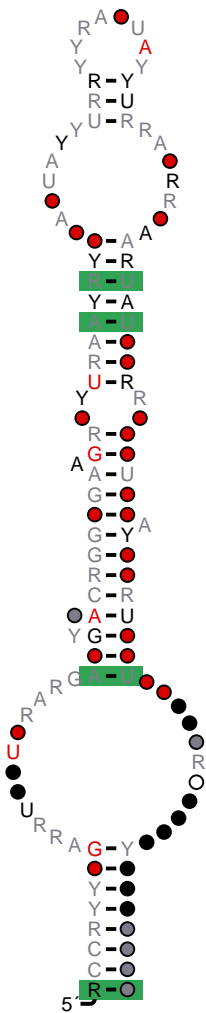


28sp\_motif\_2ScanFold.stockholm\_1

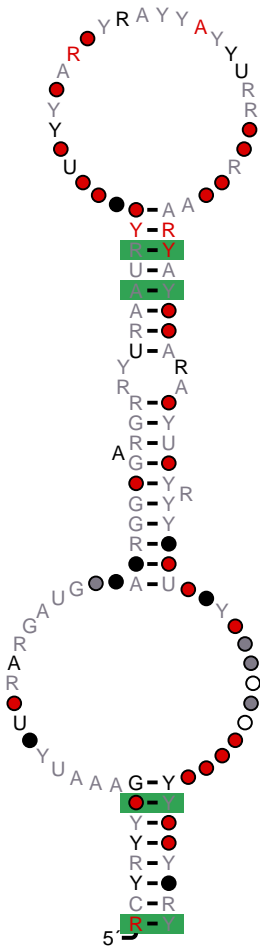




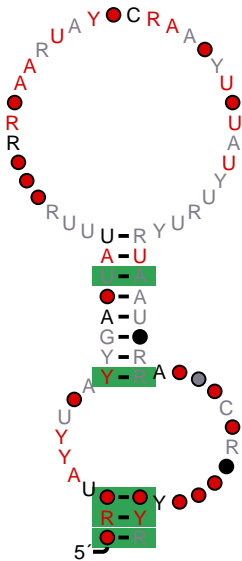
2ees\_motif\_1HFold.stockholm\_1



## 2ees\_motif\_1Knotty1.stockholm\_1



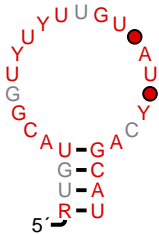
2ees\_motif\_1Knotty2.stockholm\_1

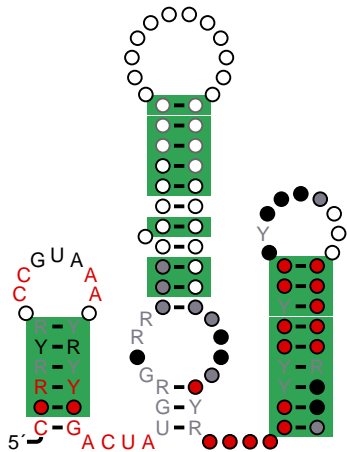




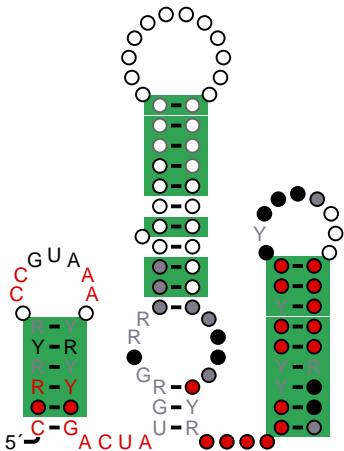


2ees\_motif\_2HFoldScanFold1.stockholm\_1

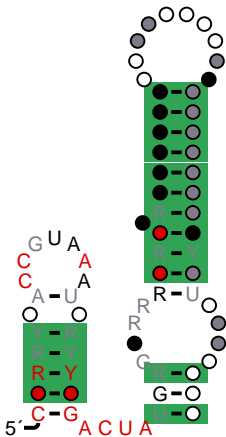




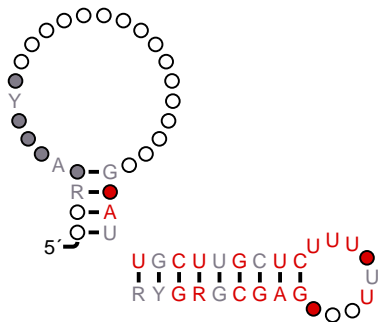
2ees\_motif\_2HFold.stockholm\_1



2ees\_motif\_2Knotty1.stockholm\_1

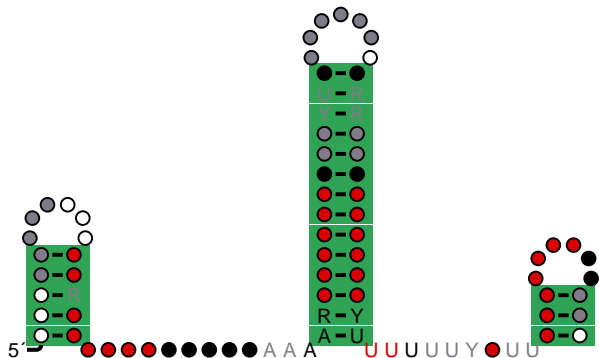


# 2ees\_motif\_2Knotty2.stockholm\_1

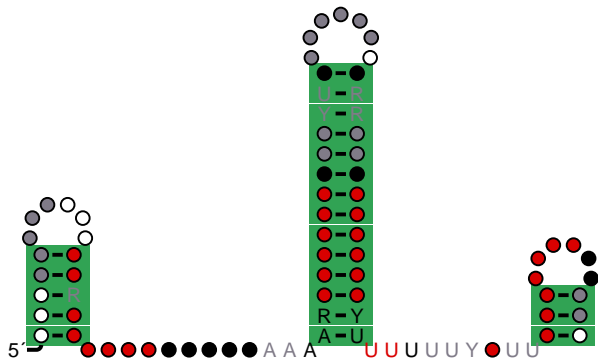




2ees\_motif\_3HFoldScanFold.stockholm\_1



2ees\_motif\_3HFold.stockholm\_1

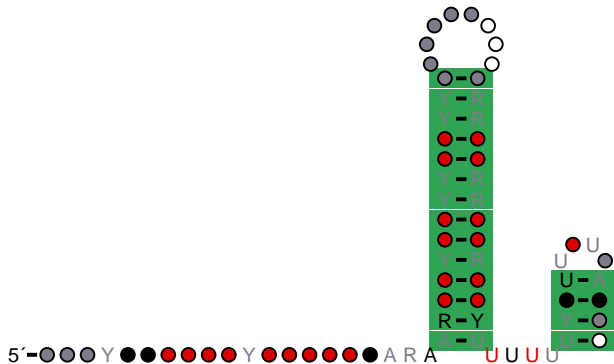




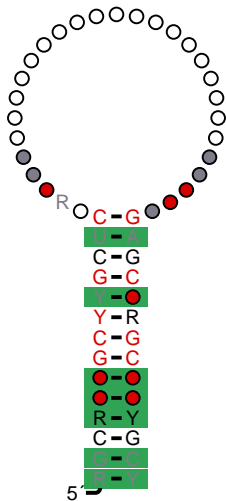
2ees\_motif\_3Knotty1.stockholm\_1



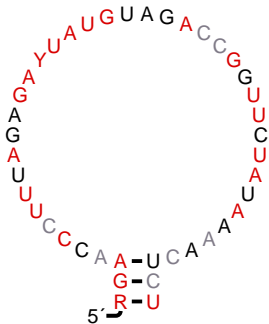
2ees\_motif\_3Knotty2.stockholm\_1



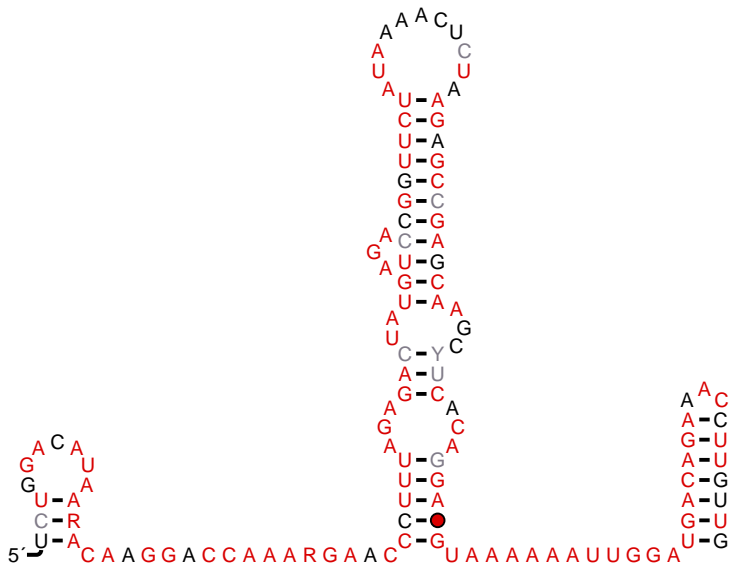
2ees\_motif\_3ScanFold.stockholm\_1



2juk\_motif\_1HFoldScanFold1.stockholm\_1



2juk\_motif\_1HFoldScanFold2.stockholm\_1

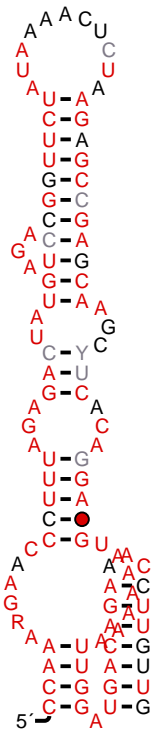




2juk\_motif\_1Knotty1.stockholm\_1



2juk\_motif\_1Knotty2.stockholm\_1

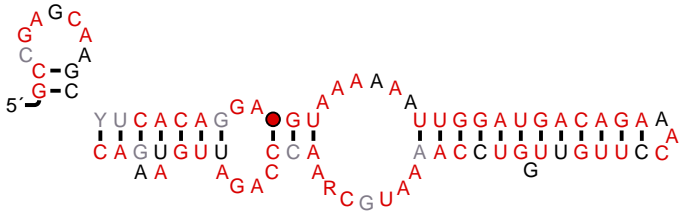




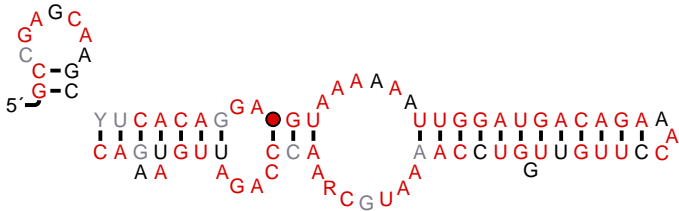
## 2juk\_motif\_1 ScanFold.stockholm\_1



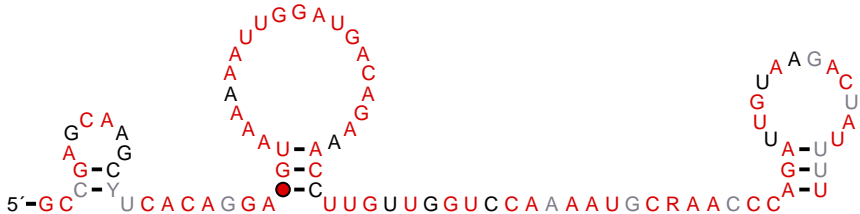
2juk\_motif\_2HFoldScanFold.stockholm\_1



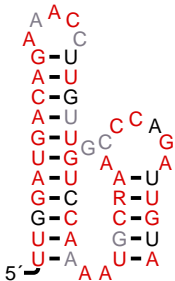
2juk\_motif\_2HFold.stockholm\_1



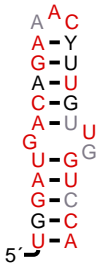
2juk\_motif\_2Knotty1.stockholm\_1



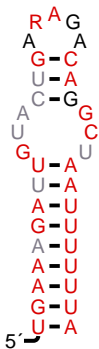
# 2juk\_motif\_2Knotty2.stockholm\_1



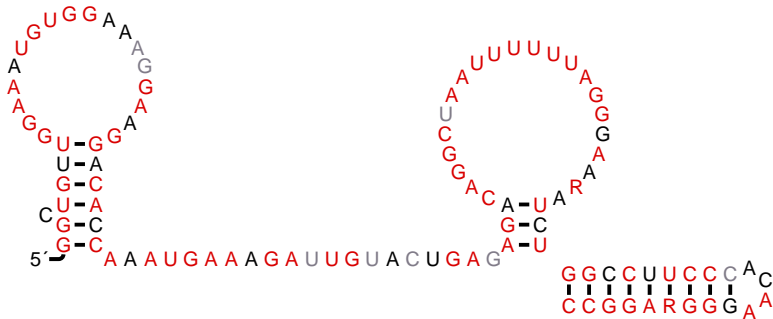
# 2juk\_motif\_2ScanFold.stockholm\_1



# 2juk\_motif\_3HFoldScanFold1.stockholm\_1

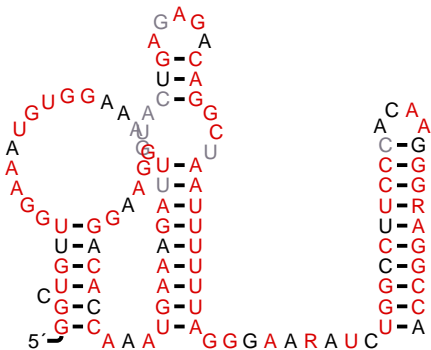


2juk\_motif\_3HFoldScanFold2.stockholm\_1





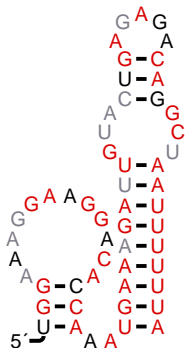
2juk\_motif\_3HFold.stockholm\_1



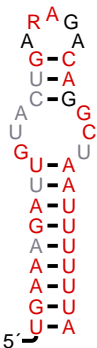
2juk\_motif\_3Knotty1.stockholm\_1



2juk\_motif\_3Knotty2.stockholm\_1



2juk\_motif\_3ScanFold.stockholm\_1



2juk\_motif\_4HFoldScanFold.stockholm\_1



## 2juk\_motif\_4HFold.stockholm\_1



2juk\_motif\_4Knotty.stockholm\_1

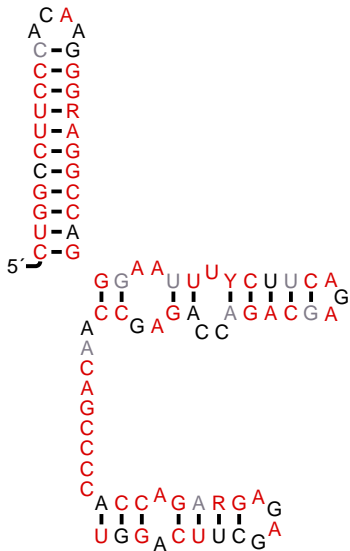


# 2juk\_motif\_4ScanFold.stockholm\_1



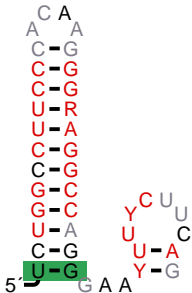


2juk\_motif\_5HFoldScanFold.stockholm\_1

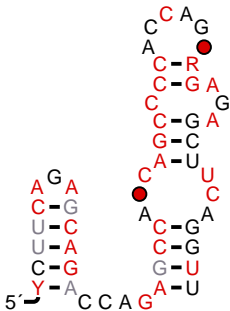




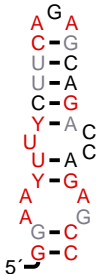
# 2juk\_motif\_5Knotty1.stockholm\_1



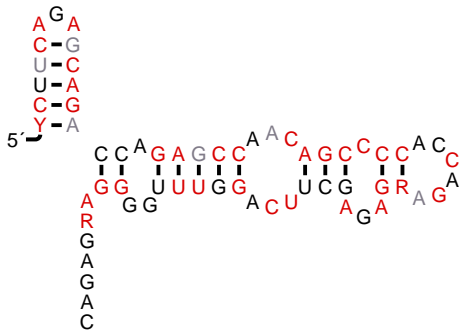
2juk\_motif\_5Knotty2.stockholm\_1



# 2juk\_motif\_5ScanFold.stockholm\_1



# 2juk\_motif\_6HFoldScanFold.stockholm\_1



# 2juk\_motif\_6HFold.stockholm\_1

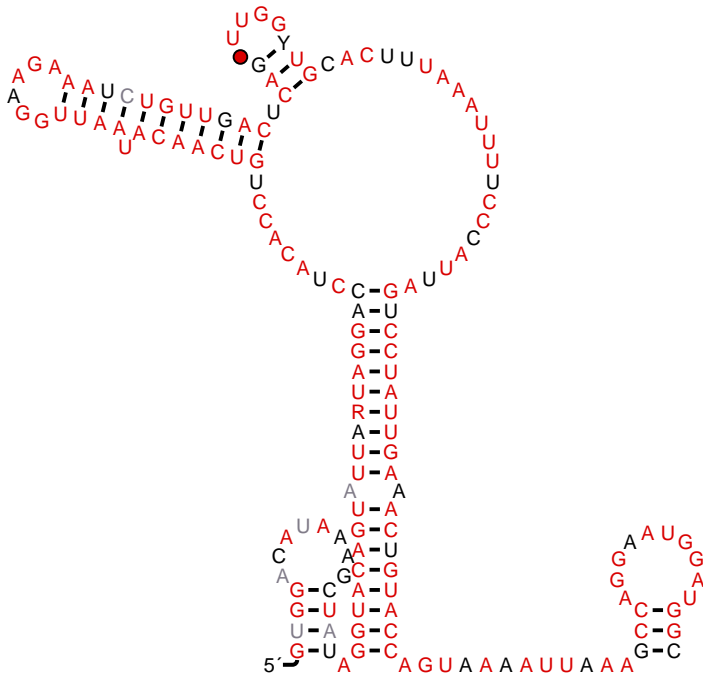


# 2juk\_motif\_6Knotty2.stockholm\_1

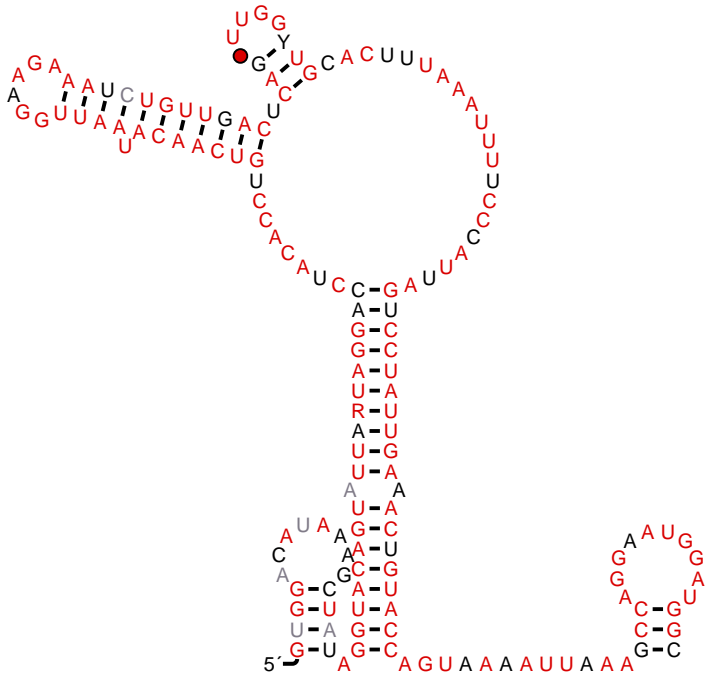




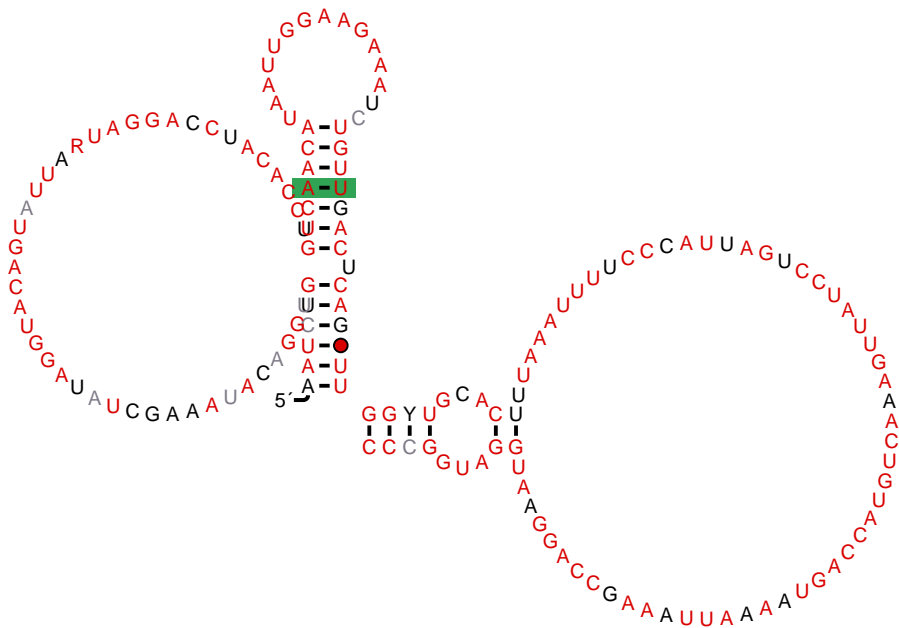
2juk\_motif\_7HFoldScanFold.stockholm\_1



## 2juk\_motif\_7HFold.stockholm\_1

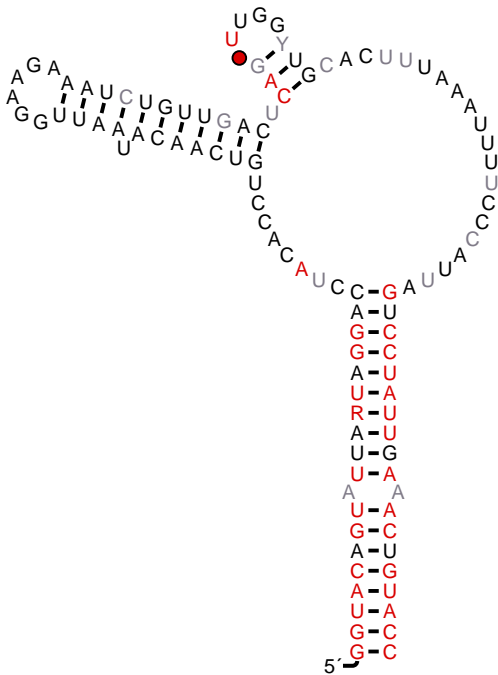


2juk\_motif\_7Knotty1.stockholm\_1

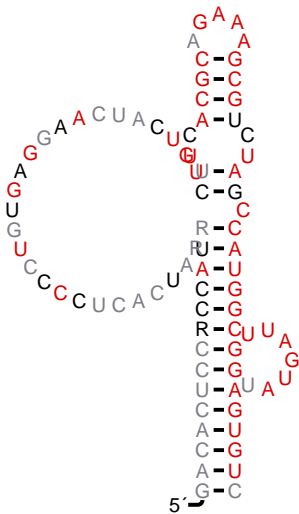




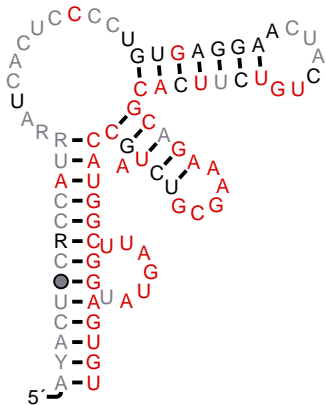
## 2juk\_motif\_7ScanFold.stockholm\_1



2ktz\_motif\_1Knotty1.stockholm\_1

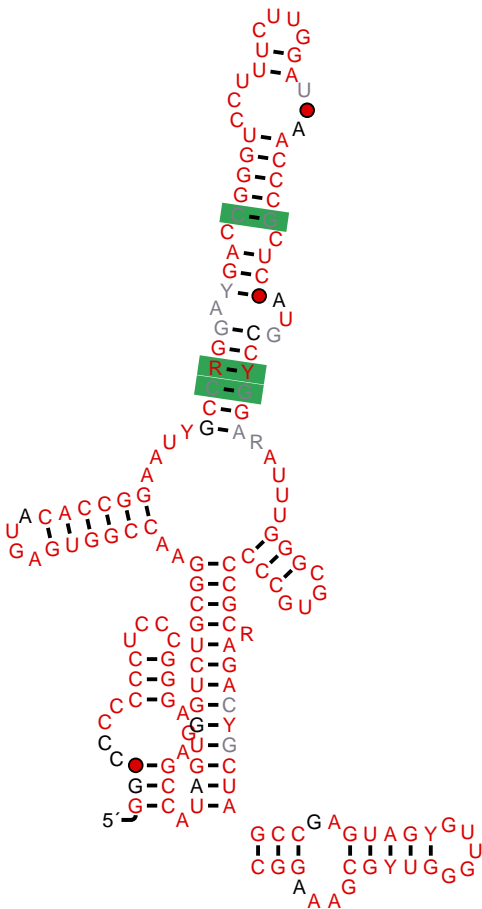


# 2ktz\_motif\_1 ScanFold.stockholm\_1

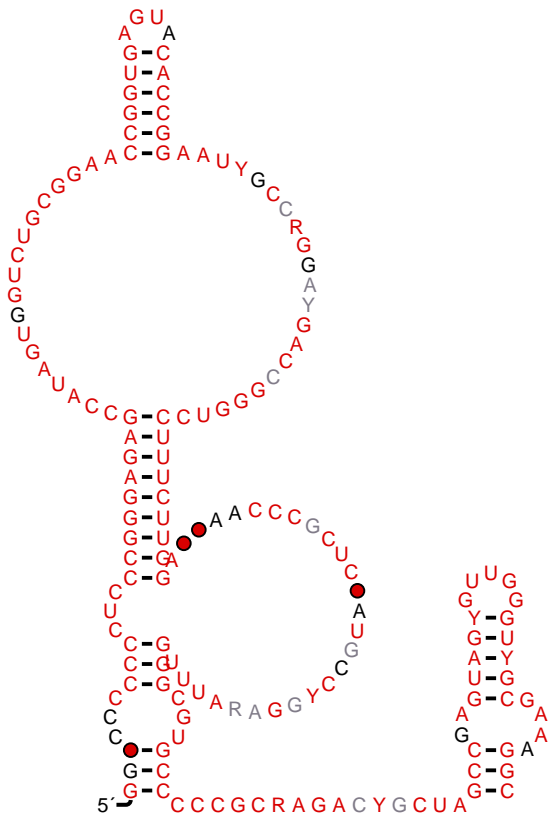


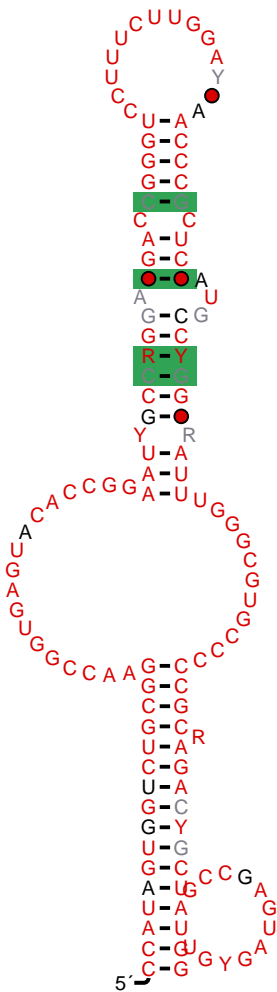


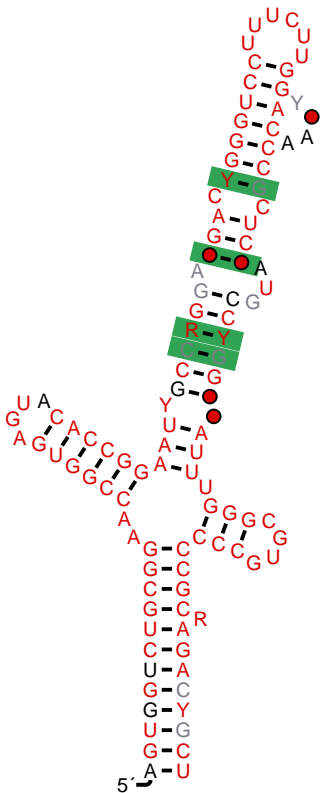




2ktz\_motif\_2Knotty1.stockholm\_1







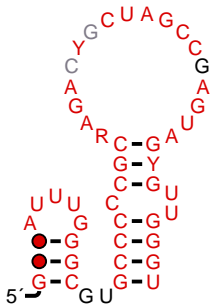
# 2ktz\_motif\_3HFoldScanFold.stockholm\_1



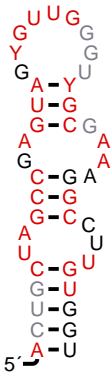
# 2ktz\_motif\_3HFold.stockholm\_1



2ktz\_motif\_3Knotty1.stockholm\_1

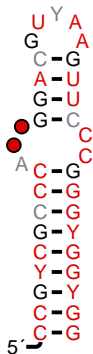


2ktz\_motif\_3Knotty2.stockholm\_1

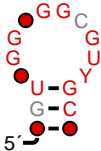


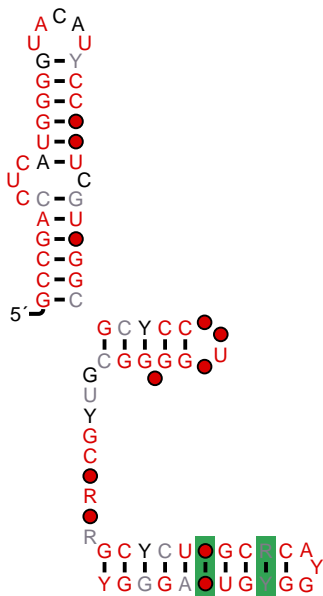


## 2ktz\_motif\_4ScanFold.stockholm\_1

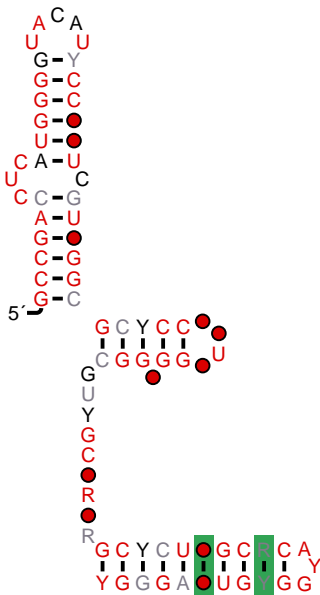


2ktz\_motif\_6HFoldScanFold1.stockholm\_1

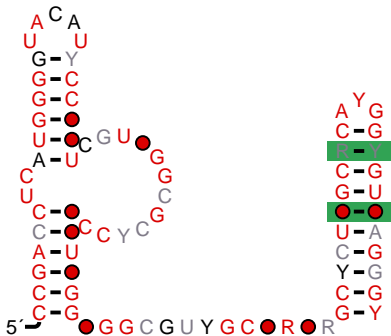




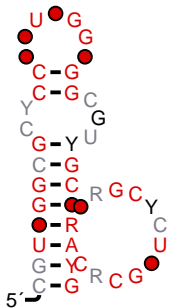
# 2ktz\_motif\_6HFold.stockholm\_1



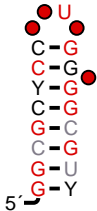
## 2ktz\_motif\_6Knotty1.stockholm\_1



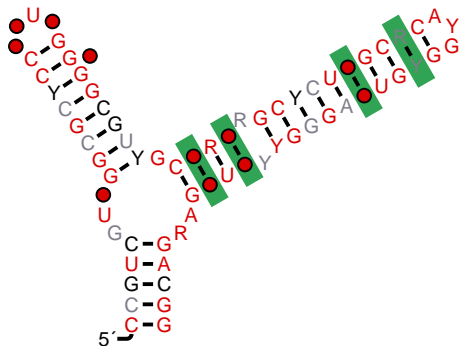
2ktz\_motif\_6Knotty2.stockholm\_1



# 2ktz\_motif\_6ScanFold.stockholm\_1

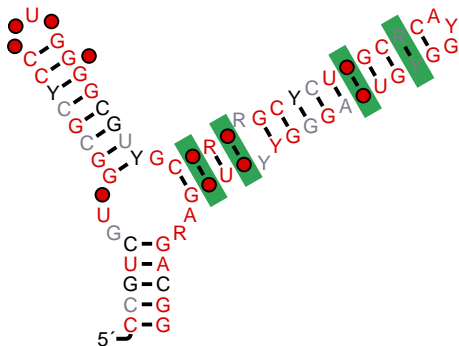


2ktz\_motif\_7HFoldScanFold.stockholm\_1

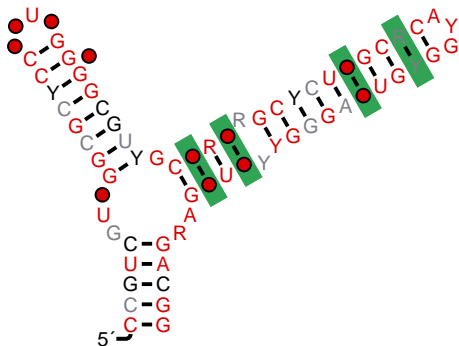




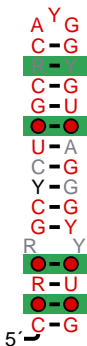
2ktz\_motif\_7HFold.stockholm\_1



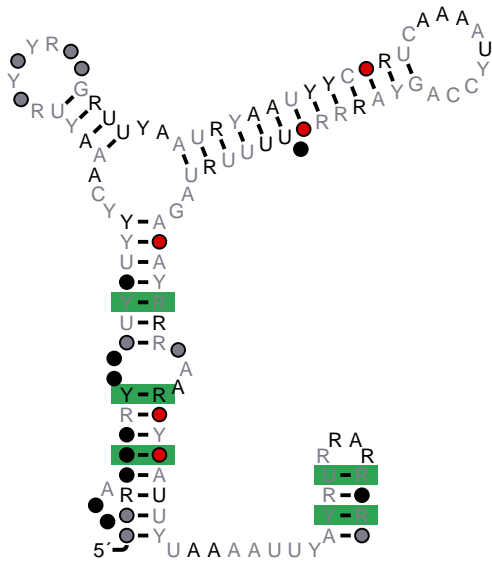
2ktz\_motif\_7Knotty.stockholm\_1



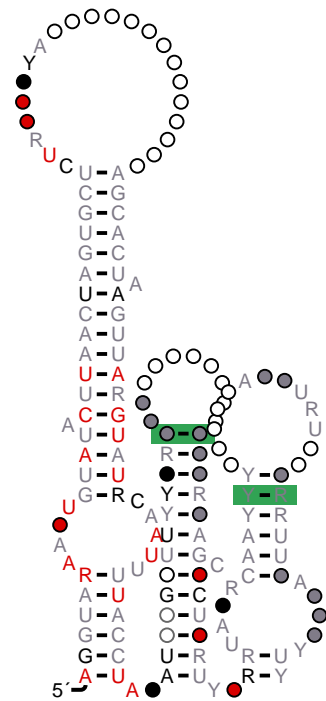
# 2ktz\_motif\_7ScanFold.stockholm\_1



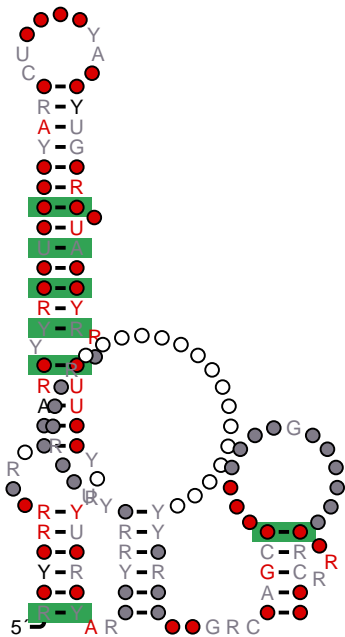
# 2kx8\_motif\_1HFoldScanFold.stockholm\_1



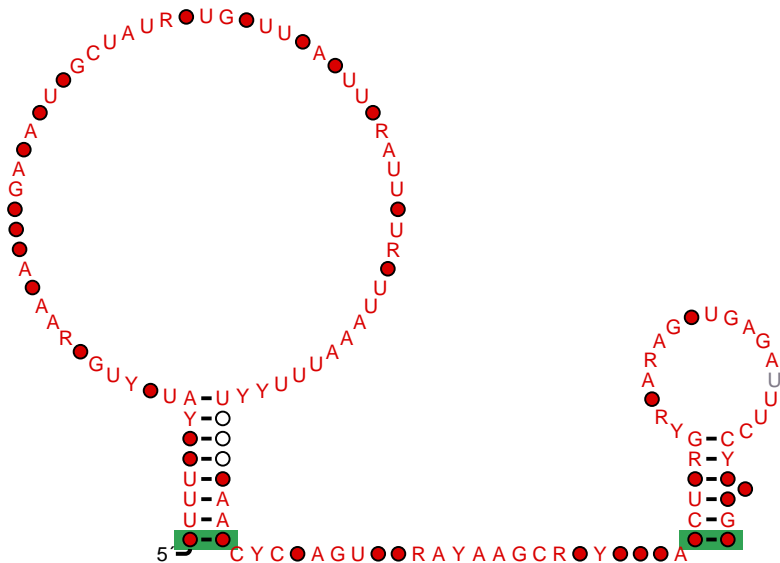
# 2kx8\_motif\_1HFold.stockholm\_1



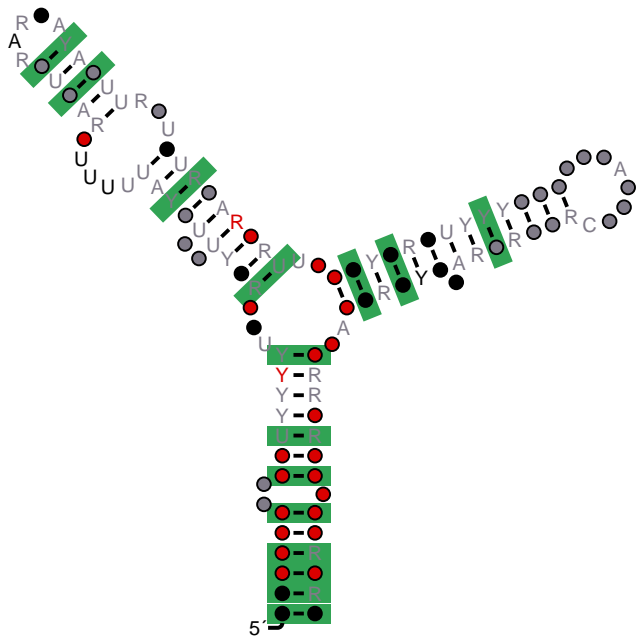
## 2kx8\_motif\_1Knotty1.stockholm\_1



2kx8\_motif\_1Knotty2.stockholm\_1

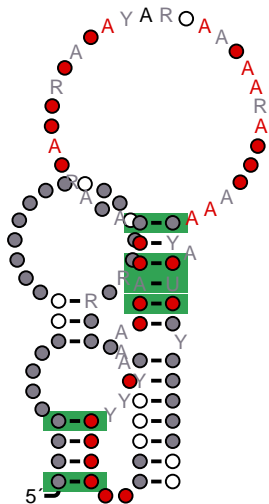


## 2kx8\_motif\_1ScanFold.stockholm\_1

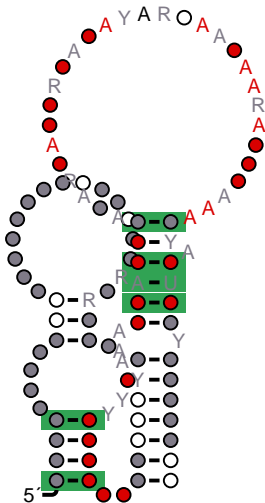




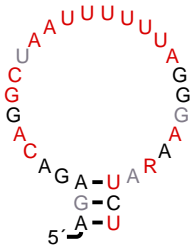
2kx8\_motif\_2HFoldScanFold2.stockholm\_1



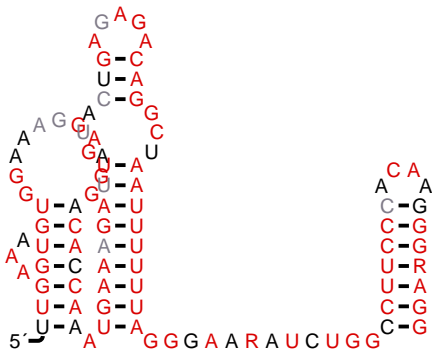
2kx8\_motif\_2Knotty1.stockholm\_1



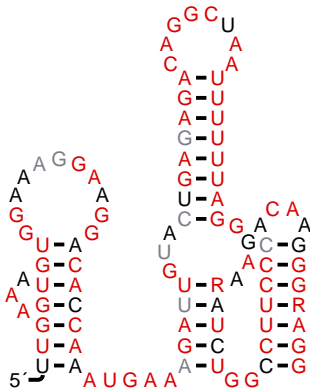
2l94\_motif\_1HFoldScanFold1.stockholm\_1



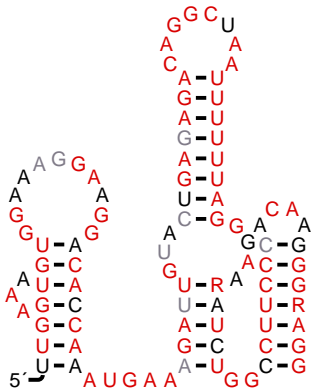
2l94\_motif\_1HFoldScanFold2.stockholm\_1



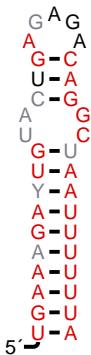
# 2l94\_motif\_1HFold.stockholm\_1



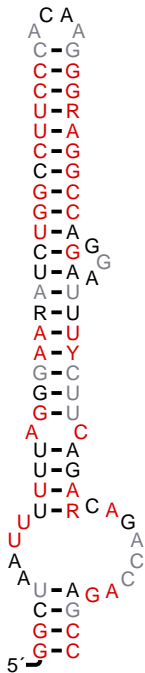
# 2l94\_motif\_1Knotty.stockholm\_1



# 2l94\_motif\_1 ScanFold.stockholm\_1



# 2l94\_motif\_2HFoldScanFold.stockholm\_1

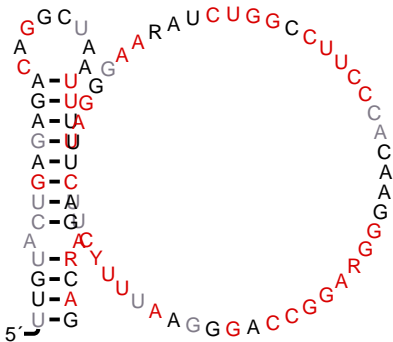




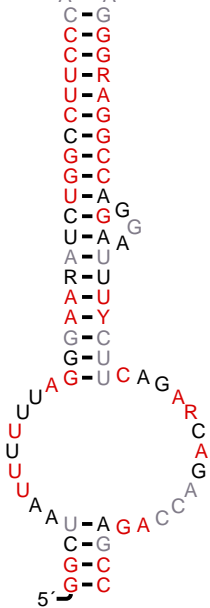
## 2l94\_motif\_2HFold.stockholm\_1



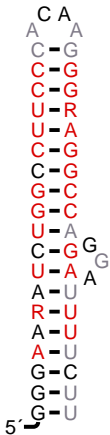
2l94\_motif\_2Knotty1.stockholm\_1



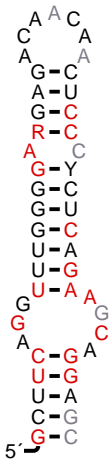
CA



# 2l94\_motif\_2ScanFold.stockholm\_1



2l94\_motif\_3HFoldScanFold.stockholm\_1



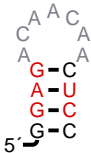
# 2l94\_motif\_3HFold.stockholm\_1



2l94\_motif\_3Knotty.stockholm\_1

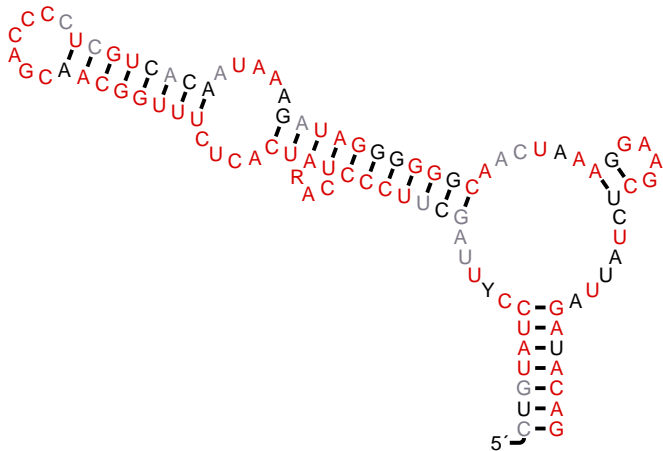


# 2l94\_motif\_3ScanFold.stockholm\_1

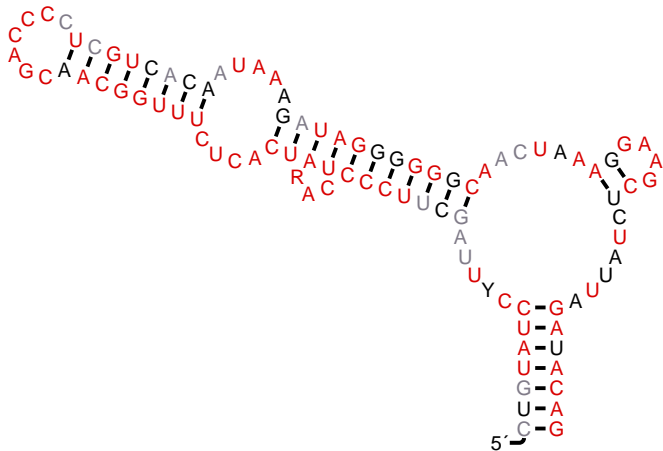




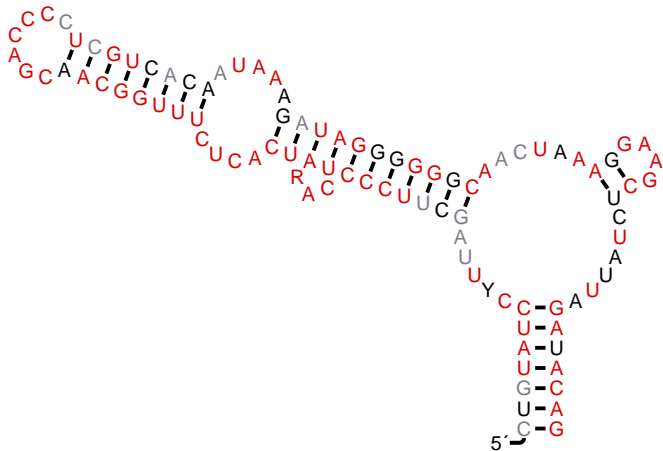
2l94\_motif\_4HFoldScanFold.stockholm\_1



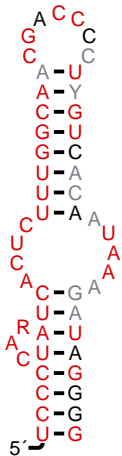
2l94\_motif\_4HFold.stockholm\_1



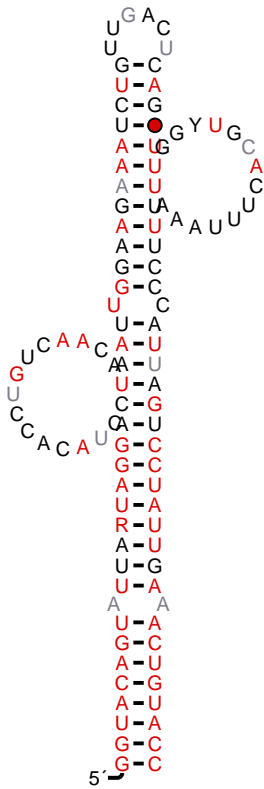
2l94\_motif\_4Knotty.stockholm\_1



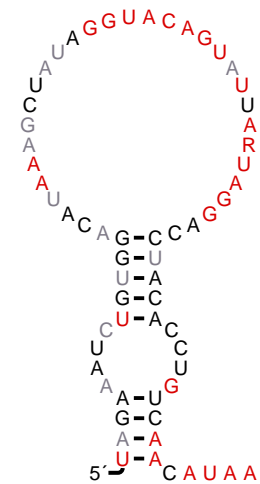
2l94\_motif\_4ScanFold.stockholm\_1



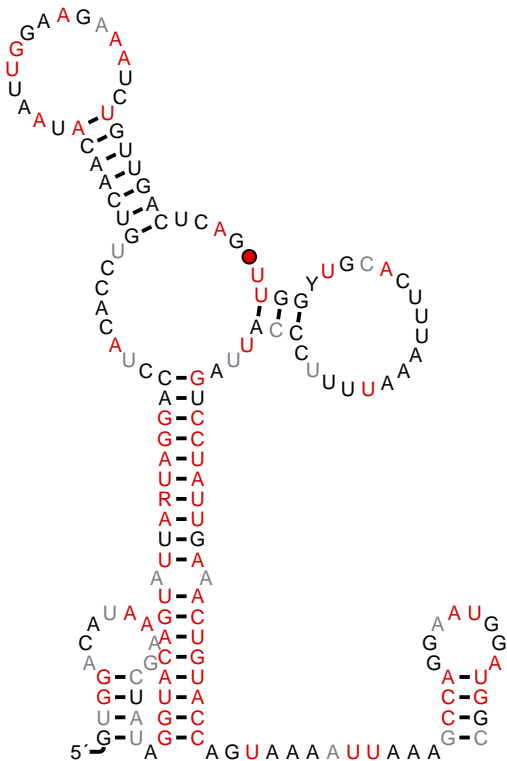
2l94\_motif\_5HFoldScanFold1.stockholm\_1



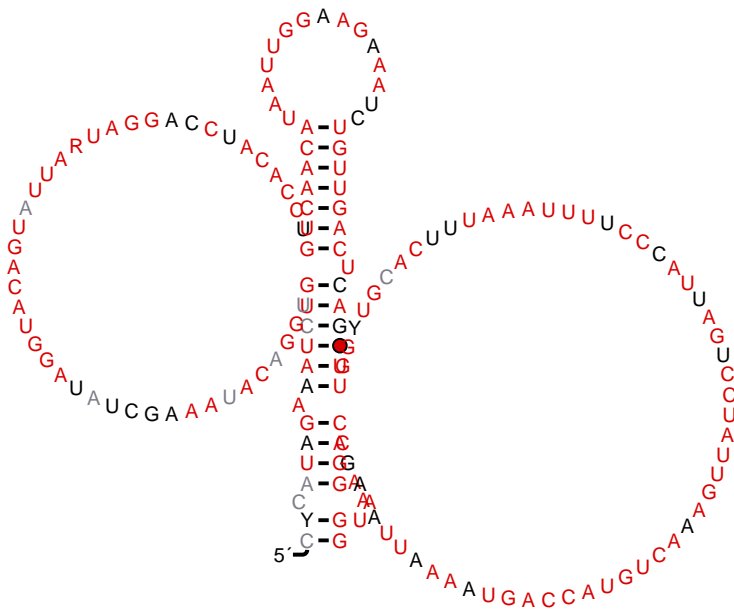
2l94\_motif\_5HFoldScanFold2.stockholm\_1



## 2l94\_motif\_5HFold.stockholm\_1



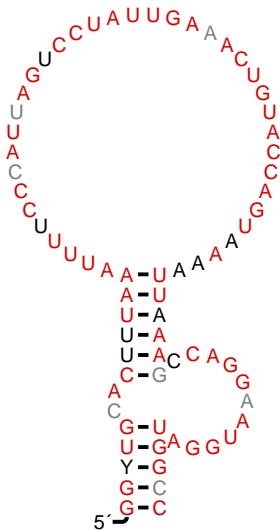
2l94\_motif\_5Knotty1.stockholm\_1

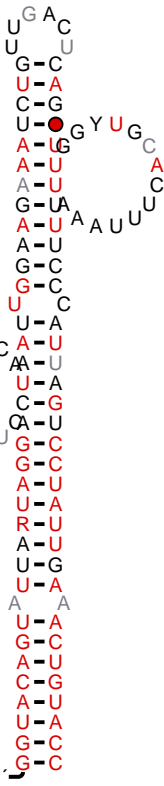




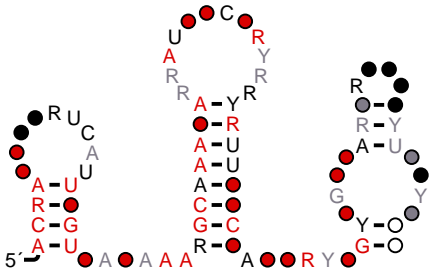
2l94\_motif\_5Knotty2.stockholm\_1

2l94\_motif\_5Knotty3.stockholm\_1

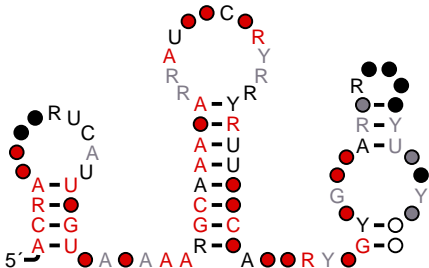




2miy\_motif\_1HFoldScanFold2.stockholm\_1



# 2miy\_motif\_1HFold.stockholm\_1



[illegible]

2miy\_motif\_1Knotty2.stockholm\_1

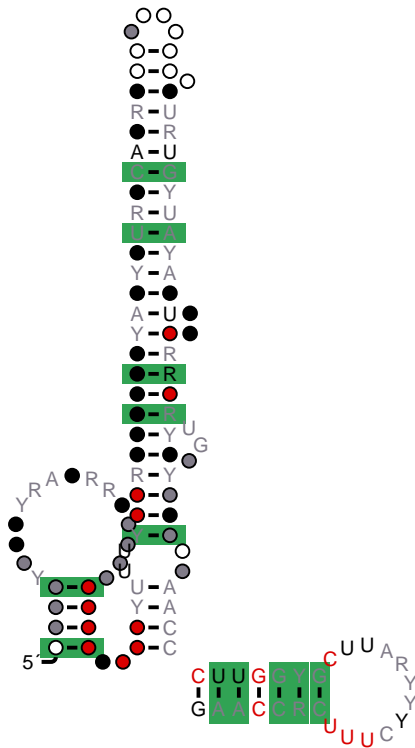


# 2miy\_motif\_1 ScanFold.stockholm\_1

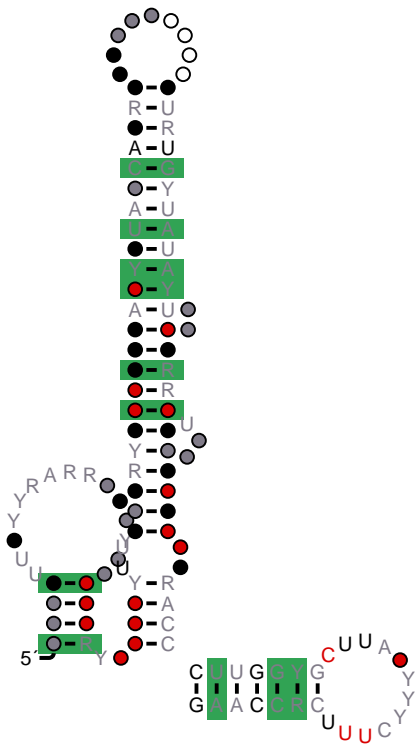




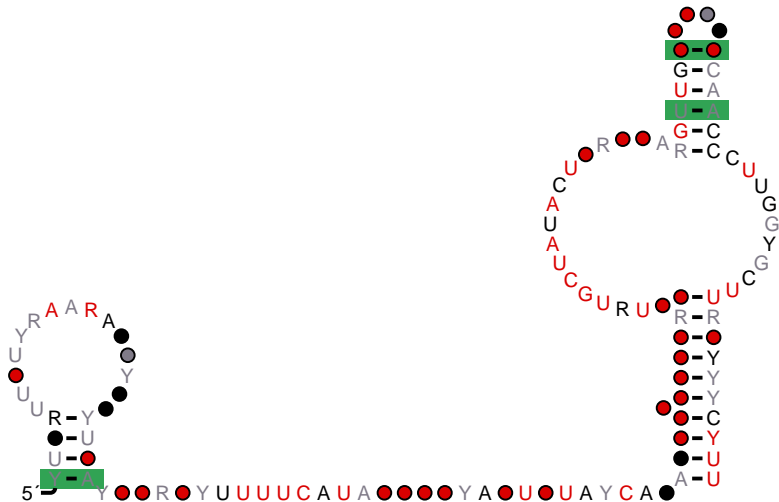
2miy\_motif\_2HFoldScanFold.stockholm\_1



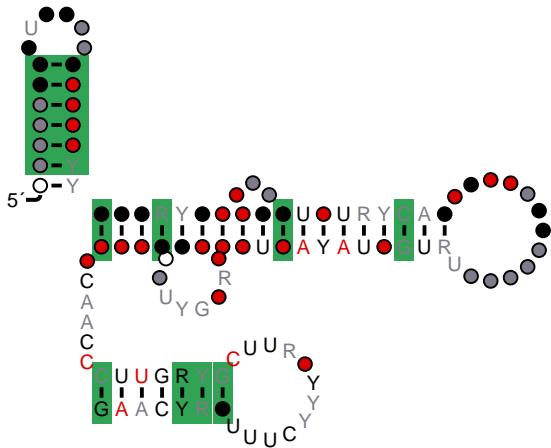
2miy\_motif\_2HFold.stockholm\_1



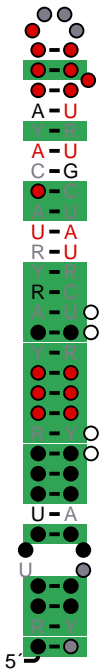
2miy\_motif\_2Knotty1.stockholm\_1



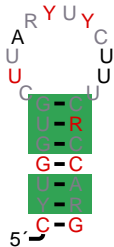
# 2miy\_motif\_2Knotty2.stockholm\_1



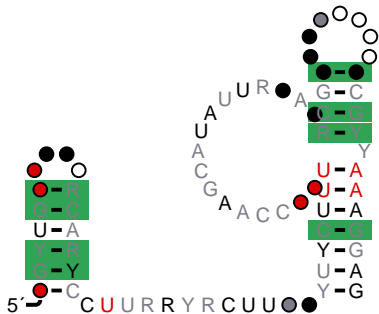
## 2miy\_motif\_2ScanFold.stockholm\_1



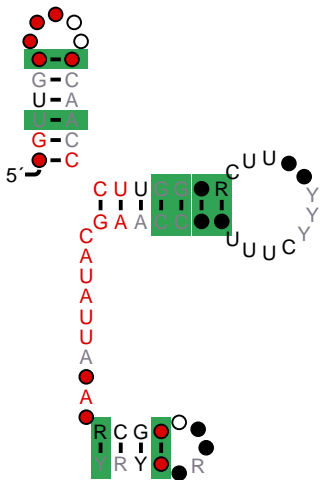
# 2miy\_motif\_3HFoldScanFold1.stockholm\_1



2miy\_motif\_3HFoldScanFold2.stockholm\_1

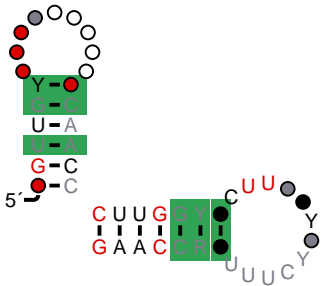


# 2miy\_motif\_3HFold.stockholm\_1

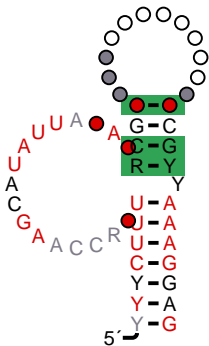




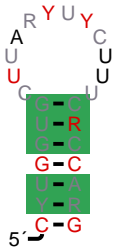
# 2miy\_motif\_3Knotty1.stockholm\_1



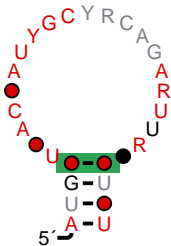
2miy\_motif\_3Knotty2.stockholm\_1



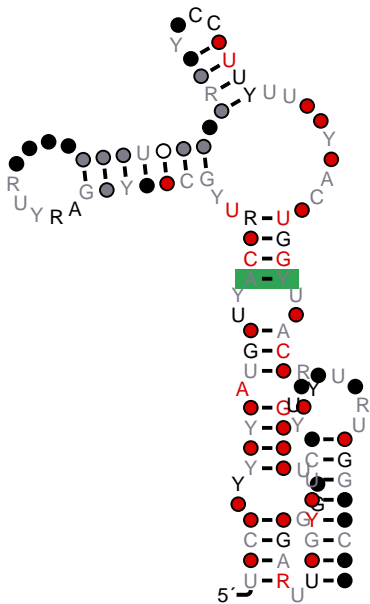
2miy\_motif\_3ScanFold.stockholm\_1



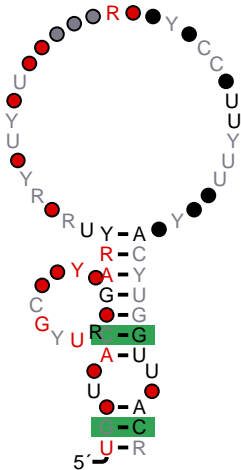
2miy\_motif\_4HFoldScanFold1.stockholm\_1



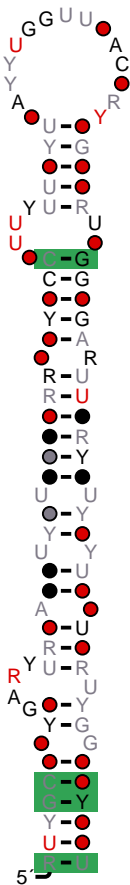
Secondary structure diagram of the Tetrahymena self-splicing intron. The diagram shows a complex RNA fold with various base pairs (A-U, G-C, U-G, Y-G, R-U) and unpaired regions. The 5' end is labeled '5'-' and the 3' end is labeled '3'-'.



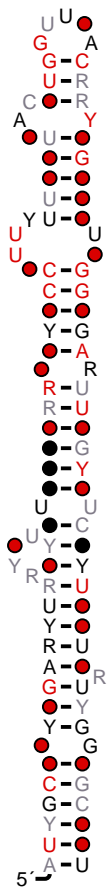
2miy\_motif\_4Knotty1.stockholm\_1



# 2miy\_motif\_4Knotty2.stockholm\_1







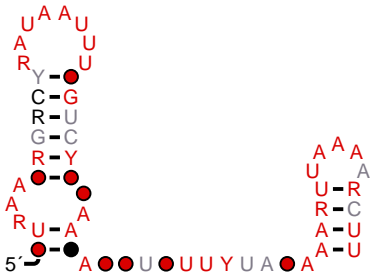
# 2tpk\_motif\_1HFoldScanFold.stockholm\_1



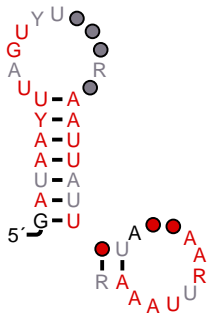
# 2tpk\_motif\_1 HFold.stockholm\_1



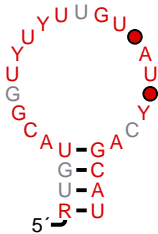
# 2tpk\_motif\_1Knotty1.stockholm\_1



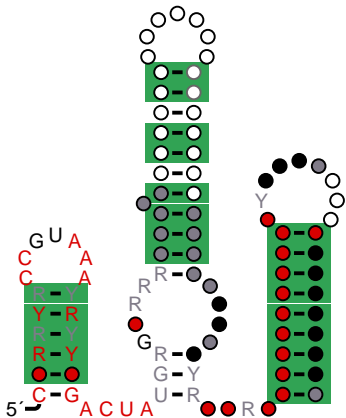
2tpk\_motif\_1Knotty2.stockholm\_1



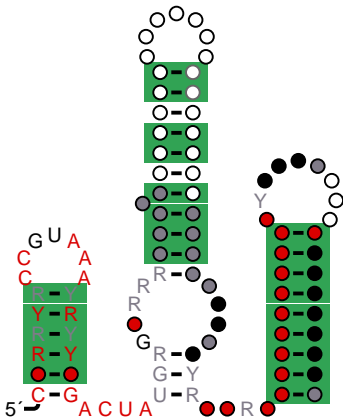
2xnz\_motif\_1HFoldScanFold1.stockholm\_1



## 2xnz\_motif\_1HFoldScanFold2.stockholm\_1

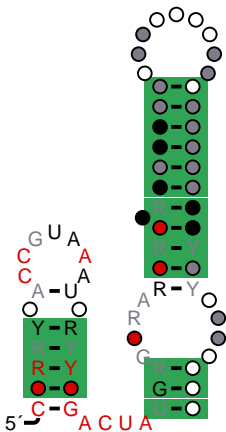


## 2xnz\_motif\_1HFold.stockholm\_1

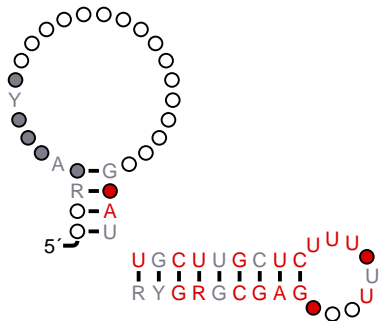




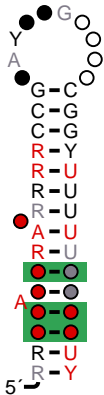
## 2xnz\_motif\_1Knotty1.stockholm\_1



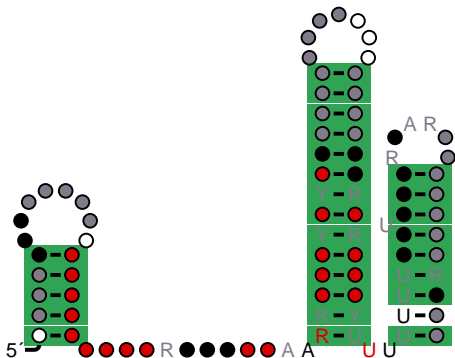
2xnz\_motif\_1Knotty2.stockholm\_1



# 2xnz\_motif\_1ScanFold.stockholm\_1



2xnz\_motif\_2HFoldScanFold.stockholm\_1



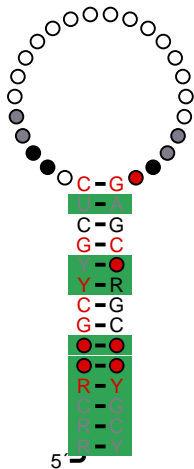


# 2xnz\_motif\_2Knotty1.stockholm\_1



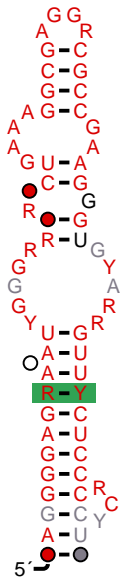


# 2xnz\_motif\_2ScanFold.stockholm\_1

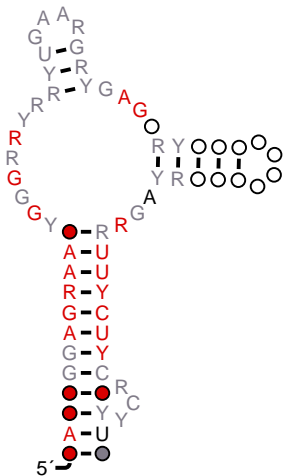




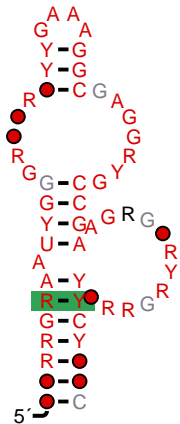
3dig\_motif\_1 HFoldScanFold.stockholm\_1



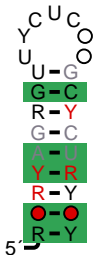
# 3dig\_motif\_1HFold.stockholm\_1



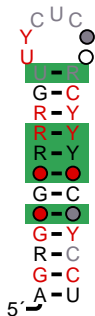
3dig\_motif\_1Knotty1.stockholm\_1



# 3dig\_motif\_1Knotty2.stockholm\_1



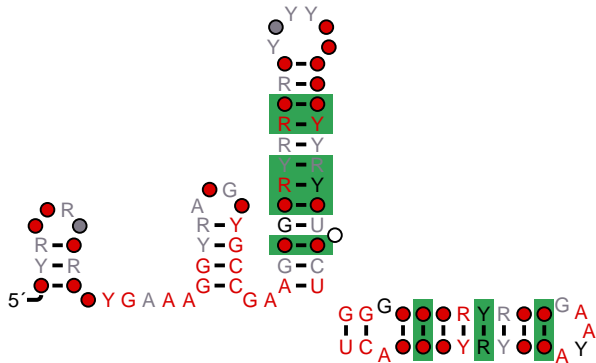
# 3dig\_motif\_2HFoldScanFold1.stockholm\_1



# 3dig\_motif\_2HFoldScanFold2.stockholm\_1



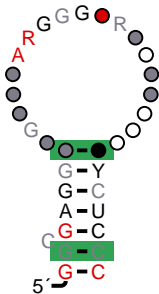
# 3dig\_motif\_2HFold.stockholm\_1



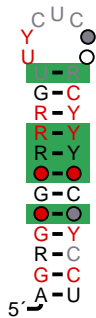




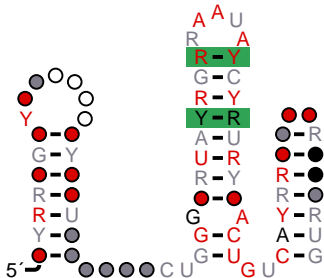
# 3dig\_motif\_2Knotty2.stockholm\_1



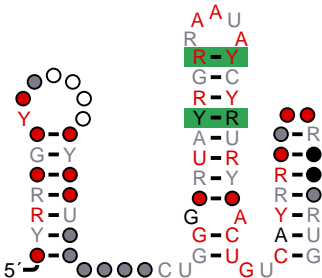
# 3dig\_motif\_2ScanFold.stockholm\_1



# 3dig\_motif\_3HFoldScanFold.stockholm\_1

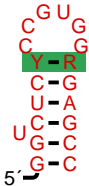


# 3dig\_motif\_3HFold.stockholm\_1

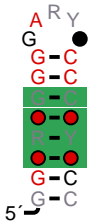




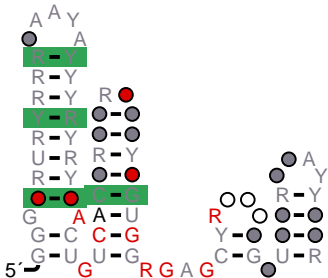
# 3dig\_motif\_3Knotty2.stockholm\_1



# 3dig\_motif\_3ScanFold.stockholm\_1

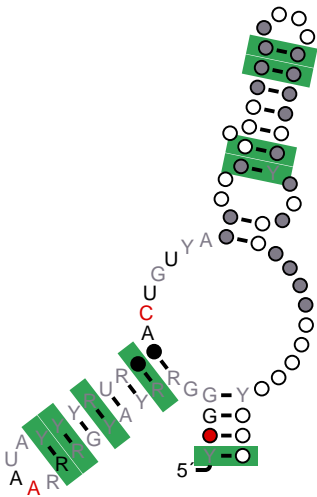


# 3dig\_motif\_4HFoldScanFold2.stockholm\_1

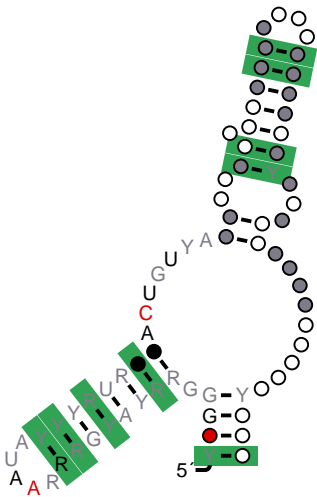




# 3dig\_motif\_4HFold.stockholm\_1



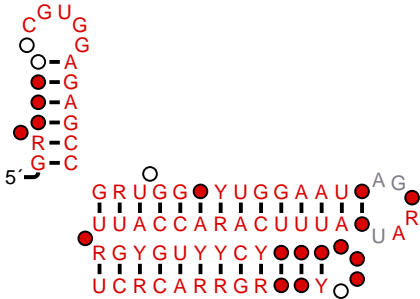
# 3dig\_motif\_4Knotty.stockholm\_1







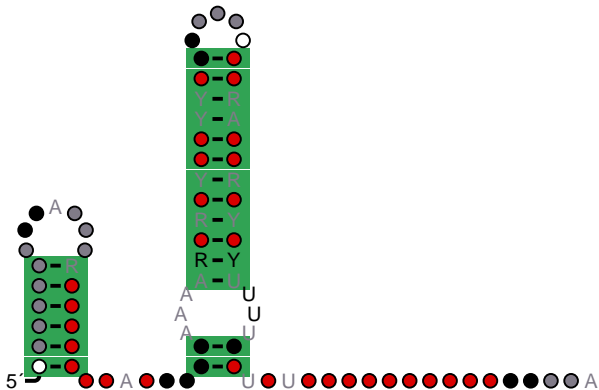
# 3dig\_motif\_5Knotty2.stockholm\_1



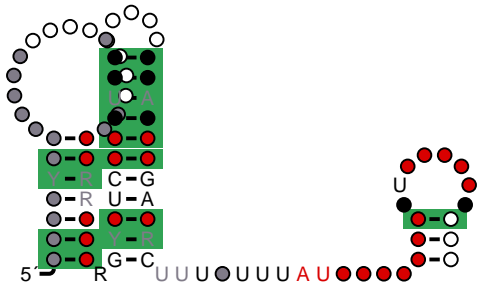
# 3dig\_motif\_5ScanFold.stockholm\_1



3dig\_motif\_6HFoldScanFold2.stockholm\_1

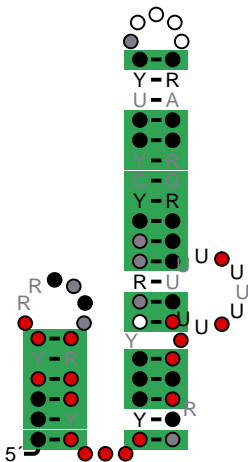


# 3dig\_motif\_6HFold.stockholm\_1

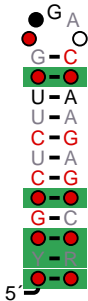




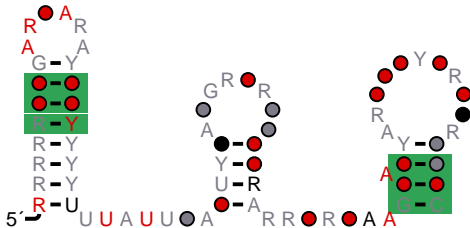
3dig\_motif\_6Knotty1.stockholm\_1



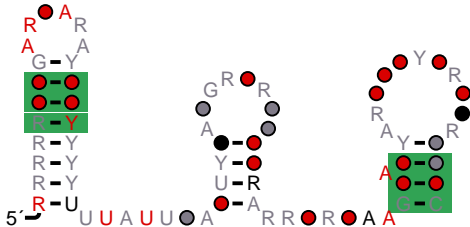
# 3dig\_motif\_6ScanFold.stockholm\_1



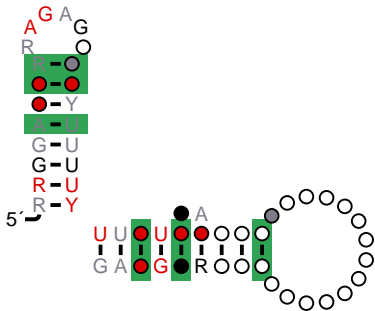
# 3dig\_motif\_7HFoldScanFold.stockholm\_1



# 3dig\_motif\_7HFold.stockholm\_1

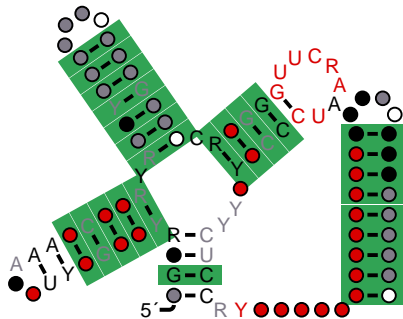


# 3dig\_motif\_7Knotty1.stockholm\_1

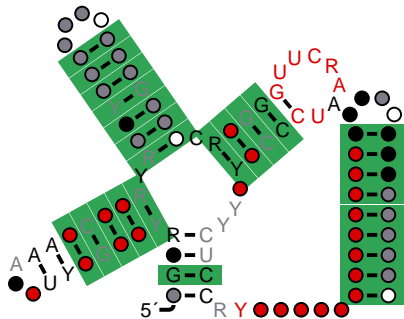




3e5c\_motif\_1HFoldScanFold.stockholm\_1

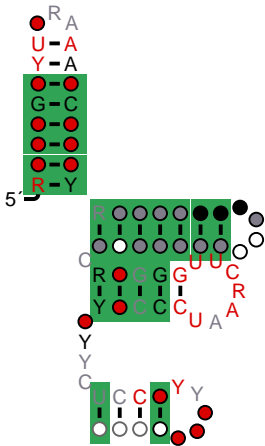


3e5c\_motif\_1HFold.stockholm\_1





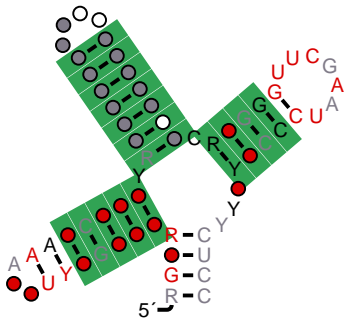
# 3e5c\_motif\_1Knotty1.stockholm\_1



3e5c\_motif\_1Knotty2.stockholm\_1

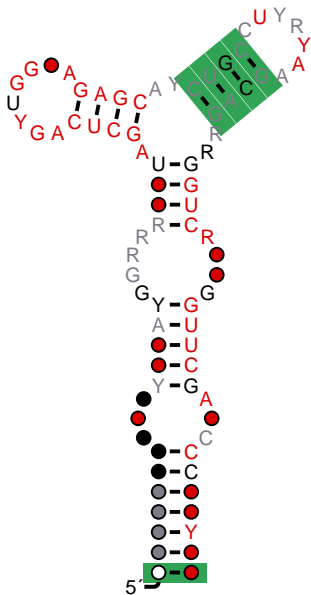


3e5c\_motif\_1ScanFold.stockholm\_1

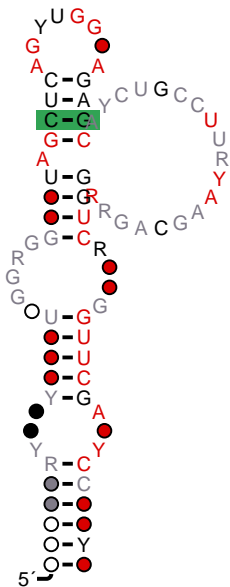




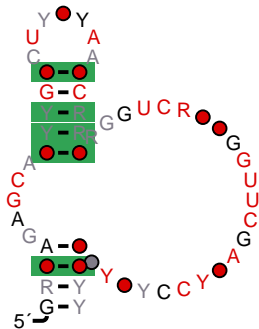
3e5c\_motif\_2HFold.stockholm\_1



# 3e5c\_motif\_2Knotty1.stockholm\_1



3e5c\_motif\_2Knotty2.stockholm\_1

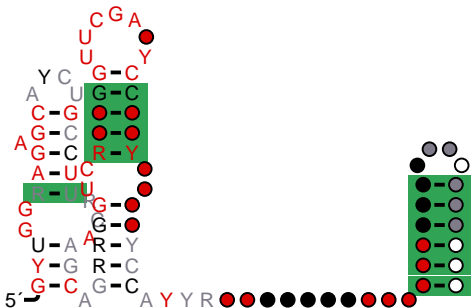


# 3e5c\_motif\_2ScanFold.stockholm\_1

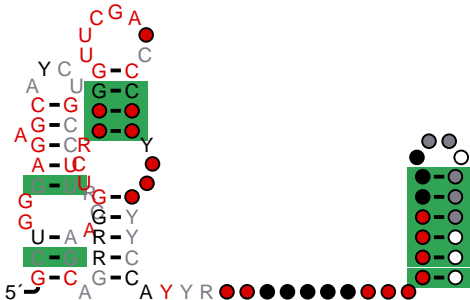




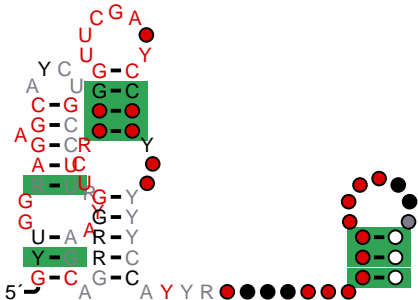
3e5c\_motif\_3HFoldScanFold.stockholm\_1



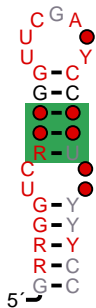
## 3e5c\_motif\_3HFold.stockholm\_1



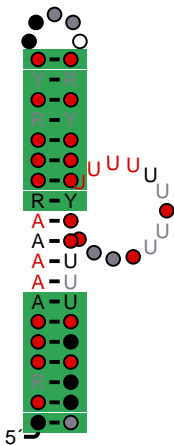
3e5c\_motif\_3Knotty1.stockholm\_1



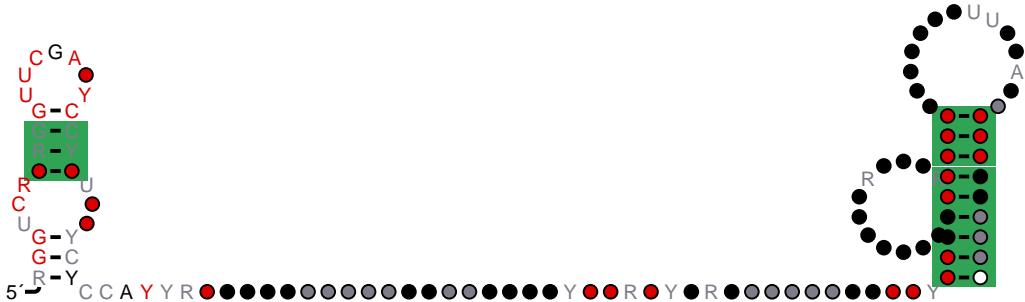
# 3e5c\_motif\_3ScanFold.stockholm\_1



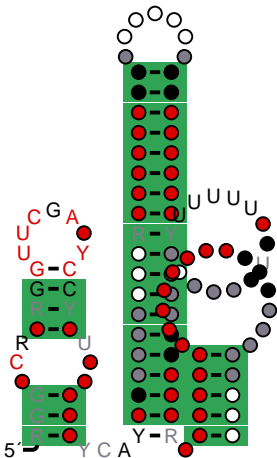
3e5c\_motif\_4HFoldScanFold1.stockholm\_1



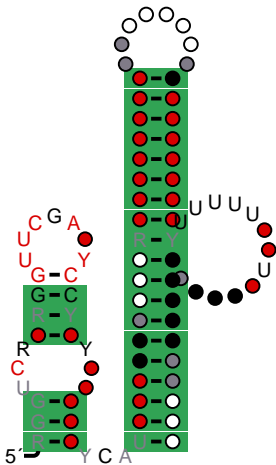
3e5c\_motif\_4HFoldScanFold2.stockholm\_1



3e5c\_motif\_4HFold.stockholm\_1

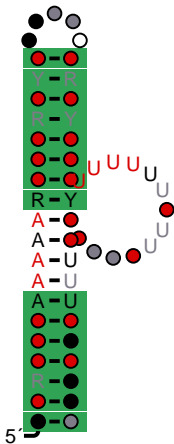


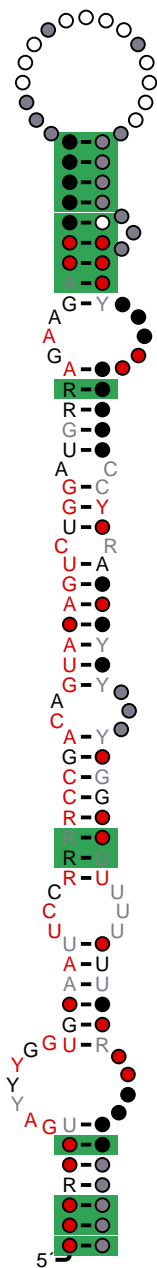
3e5c\_motif\_4Knotty1.stockholm\_1

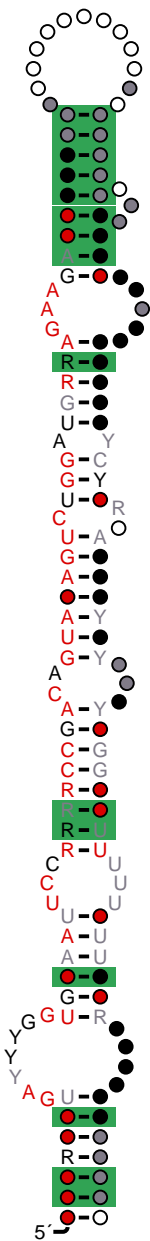




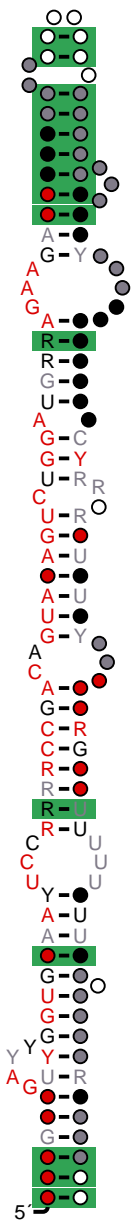
3e5c\_motif\_4ScanFold.stockholm\_1



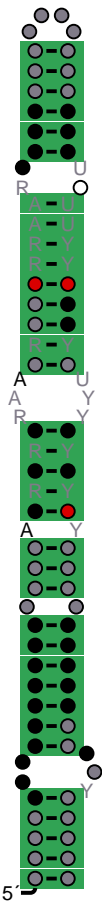




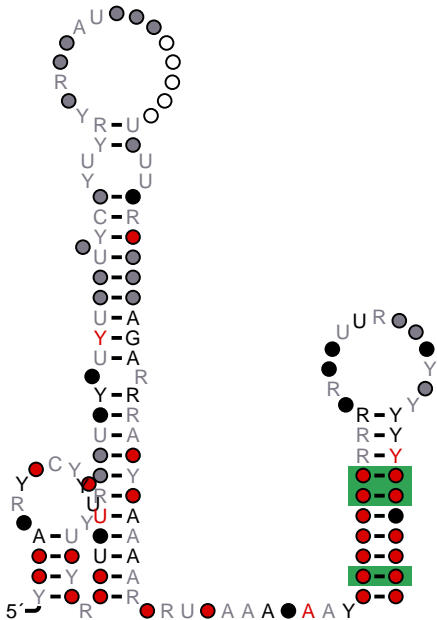
# 3f2q\_motif\_1Knotty1.stockholm\_1



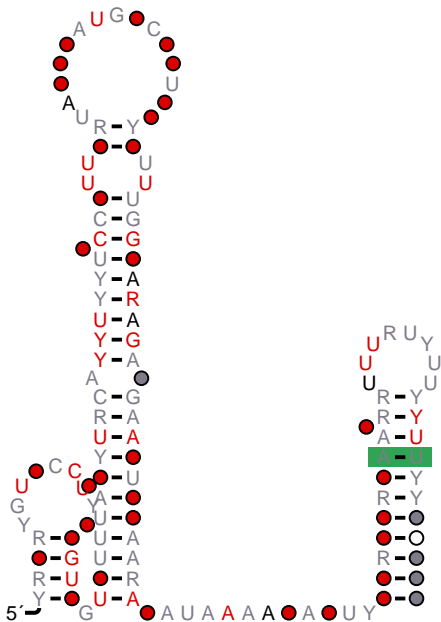
5'—



# 3f2q\_motif\_2HFoldScanFold2.stockholm\_1

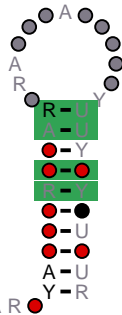
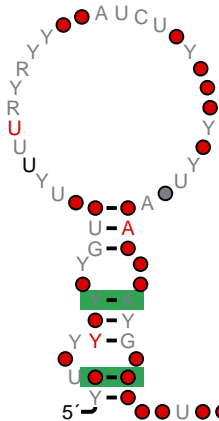


# 3f2q\_motif\_2HFold.stockholm\_1

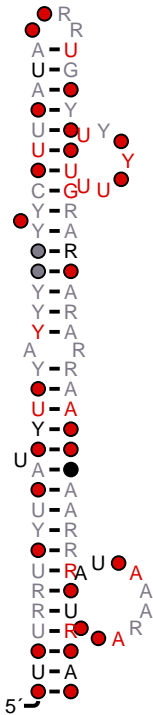




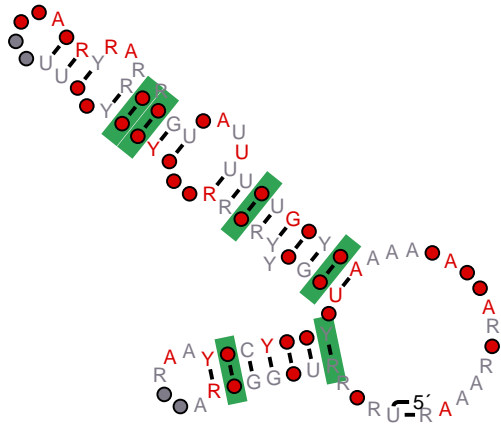
3f2q\_motif\_2Knotty1.stockholm\_1

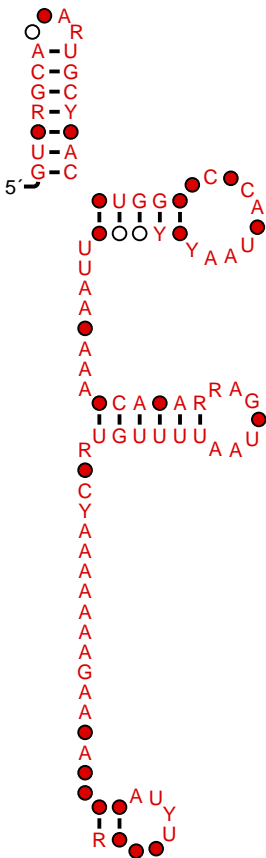




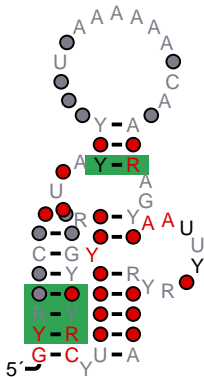


3gca\_motif\_2HFoldScanFold.stockholm\_1

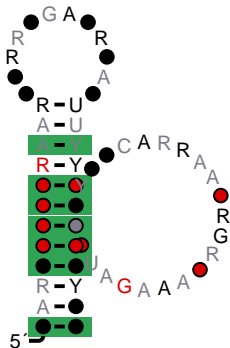


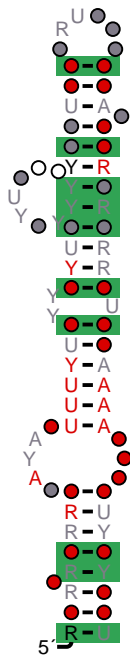


3gca\_motif\_2Knotty1.stockholm\_1



3gca\_motif\_2Knotty2.stockholm\_1



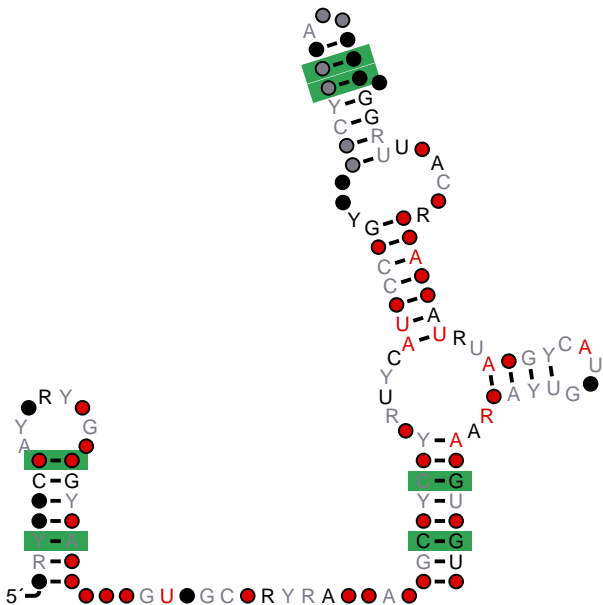




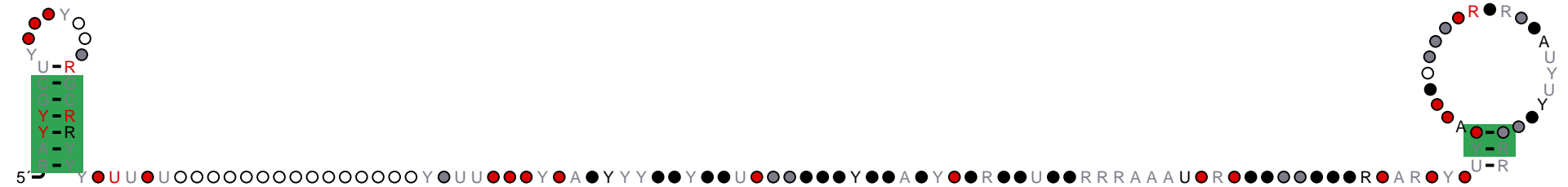
3gca\_motif\_3HFoldScanFold2.stockholm\_1



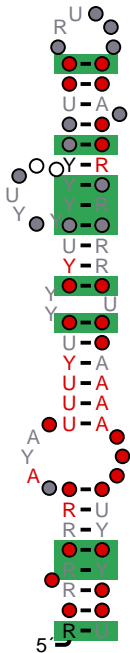
# 3gca\_motif\_3HFold.stockholm\_1



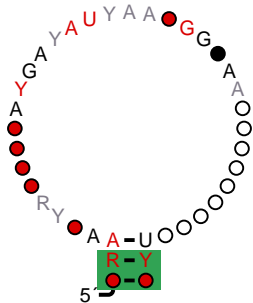
3gca\_motif\_3Knotty1.stockholm\_1



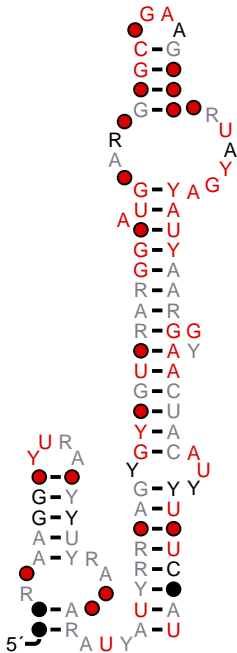
3gca\_motif\_3ScanFold.stockholm\_1



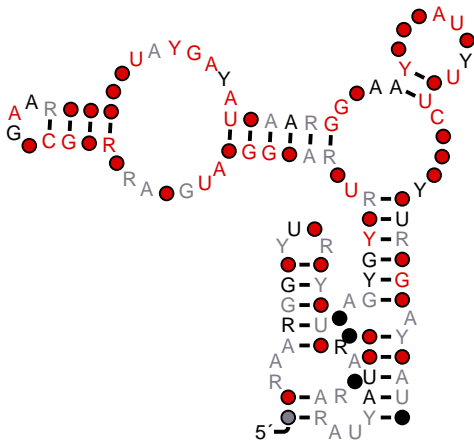
3la5\_motif\_1HFoldScanFold1.stockholm\_1



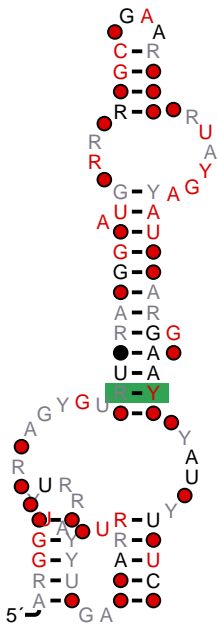
3la5\_motif\_1HFoldScanFold2.stockholm\_1



# 3la5\_motif\_1HFold.stockholm\_1

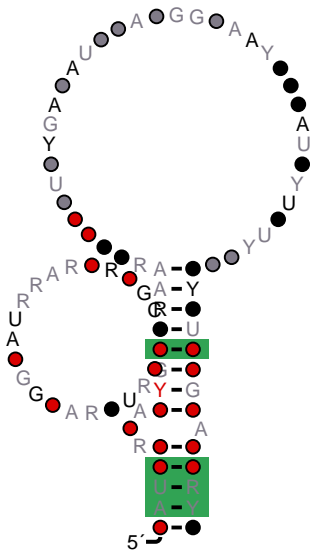


3la5\_motif\_1Knotty1.stockholm\_1





3la5\_motif\_1Knotty2.stockholm\_1



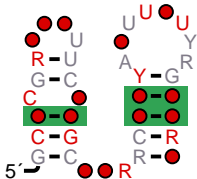
## 3la5\_motif\_1ScanFold.stockholm\_1



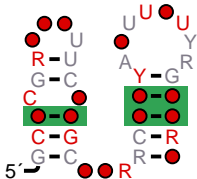
# 3suh\_motif\_10Knotty1.stockholm\_1



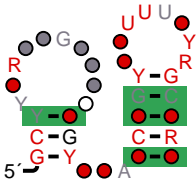
# 3suh\_motif\_1 1HFoldScanFold.stockholm\_1



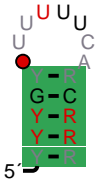
# 3suh\_motif\_1 1HFold.stockholm\_1



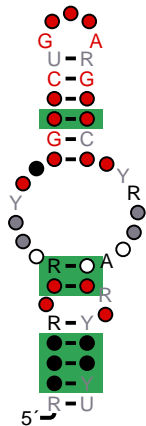
# 3suh\_motif\_11Knotty2.stockholm\_1



3suh\_motif\_1 1ScanFold.stockholm\_1

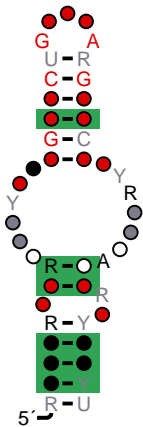


3suh\_motif\_1HFoldScanFold.stockholm\_1

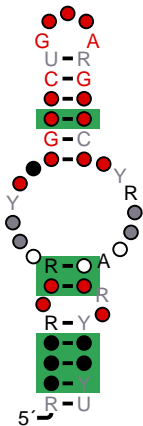




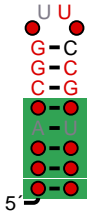
# 3suh\_motif\_1HFold.stockholm\_1



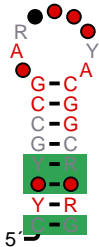
3suh\_motif\_1Knotty.stockholm\_1

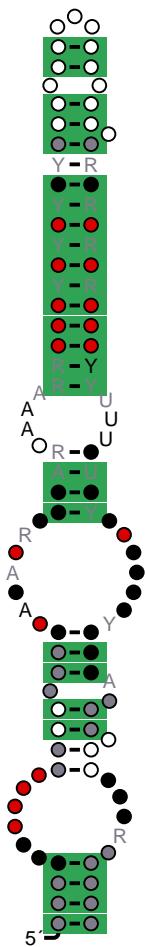


# 3suh\_motif\_3ScanFold.stockholm\_1

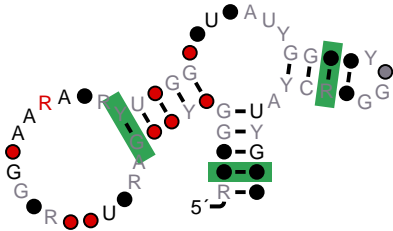


# 3suh\_motif\_4ScanFold.stockholm\_1

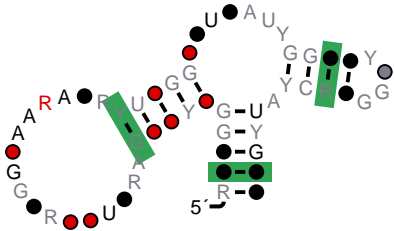




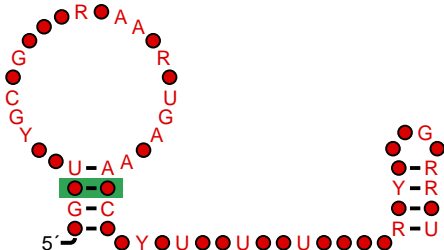
3suh\_motif\_6HFoldScanFold.stockholm\_1



# 3suh\_motif\_6HFold.stockholm\_1

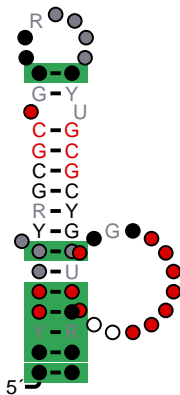


3suh\_motif\_6Knotty1.stockholm\_1

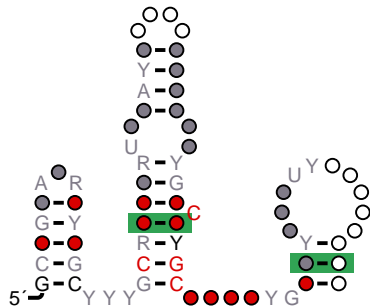




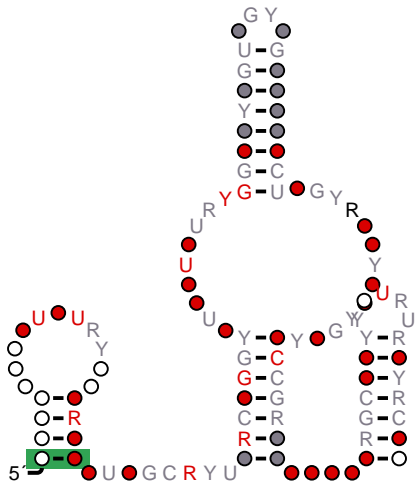
# 3suh\_motif\_6Knotty2.stockholm\_1



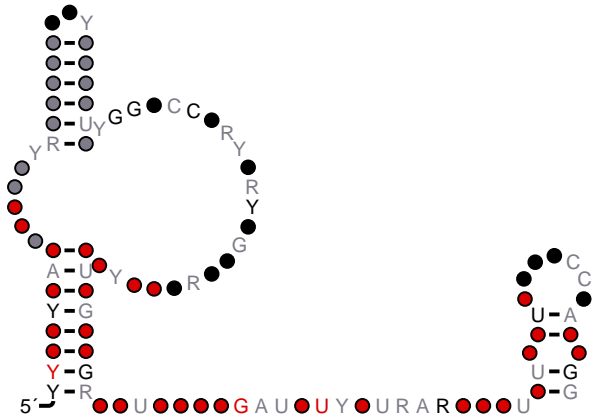
3suh\_motif\_7HFoldScanFold.stockholm\_1



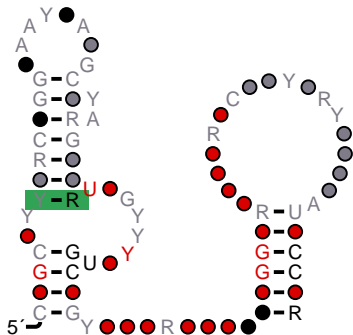
3suh\_motif\_8Knotty1.stockholm\_1



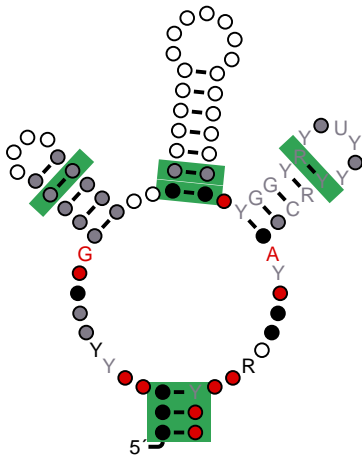
# 3suh\_motif\_8Knotty2.stockholm\_1



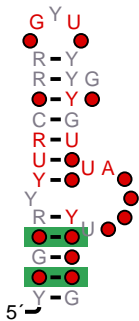
3suh\_motif\_9HFoldScanFold2.stockholm\_1



3suh\_motif\_9HFold.stockholm\_1



# 3suh\_motif\_9Knotty1.stockholm\_1



480d\_motif\_1HFoldScanFold.stockholm\_1





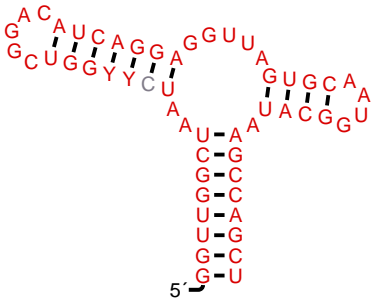
480d\_motif\_1HFold.stockholm\_1



480d\_motif\_1Knotty.stockholm\_1



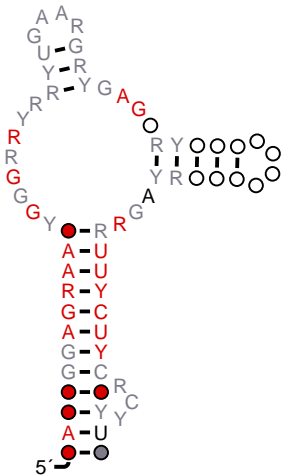
# 480d\_motif\_1 ScanFold.stockholm\_1



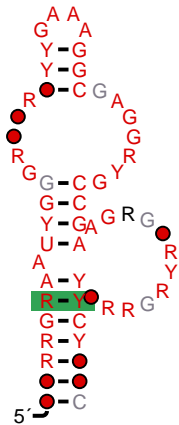
4erl\_motif\_1HFoldScanFold.stockholm\_1



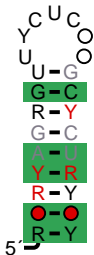
4erl\_motif\_1HFold.stockholm\_1



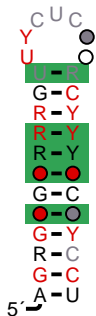
4erl\_motif\_1Knotty1.stockholm\_1



# 4erl\_motif\_1Knotty2.stockholm\_1



# 4erl\_motif\_2HFoldScanFold1.stockholm\_1

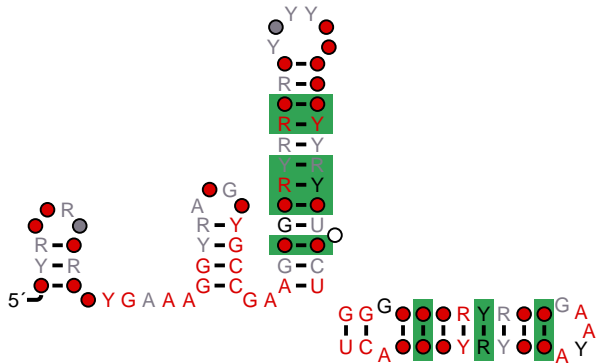




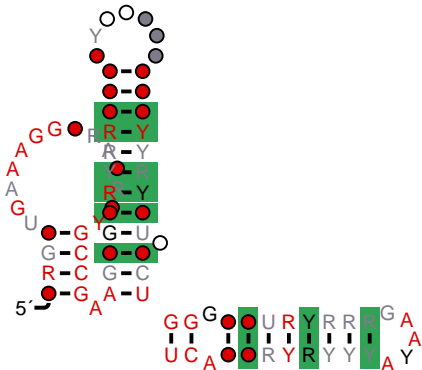
4erl\_motif\_2HFoldScanFold2.stockholm\_1



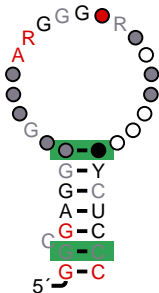
4erl\_motif\_2HFold.stockholm\_1



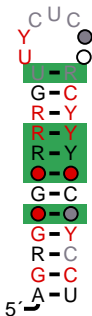
4erl\_motif\_2Knotty1.stockholm\_1

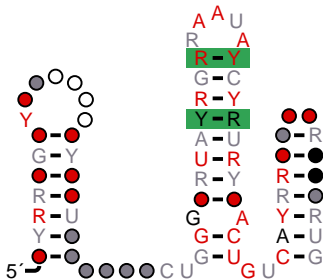


4erl\_motif\_2Knotty2.stockholm\_1

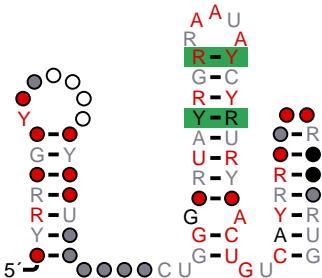


# 4erl\_motif\_2ScanFold.stockholm\_1

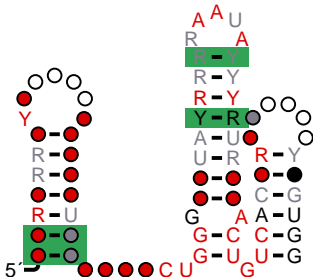




# 4erl\_motif\_3HFold.stockholm\_1

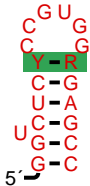


# 4erl\_motif\_3Knotty1.stockholm\_1

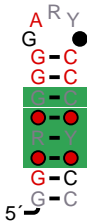




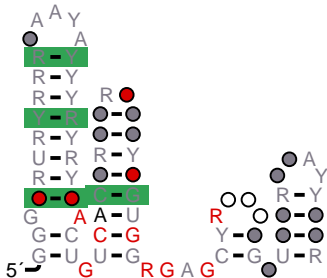
# 4erl\_motif\_3Knotty2.stockholm\_1



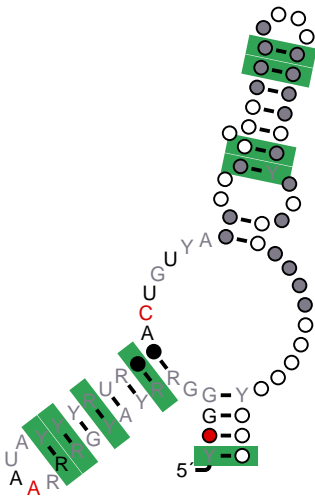
# 4erl\_motif\_3ScanFold.stockholm\_1



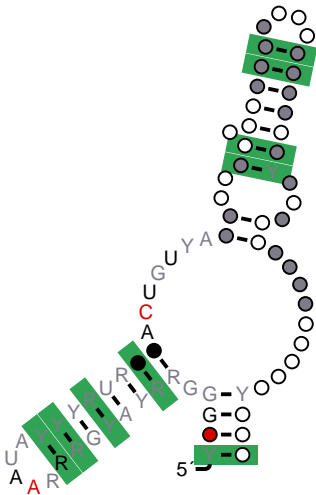
4erl\_motif\_4HFoldScanFold2.stockholm\_1



4erl\_motif\_4HFold.stockholm\_1



4erl\_motif\_4Knotty.stockholm\_1



4erl\_motif\_5HFoldScanFold.stockholm\_1

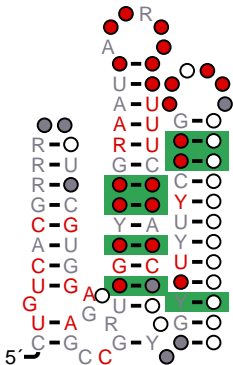
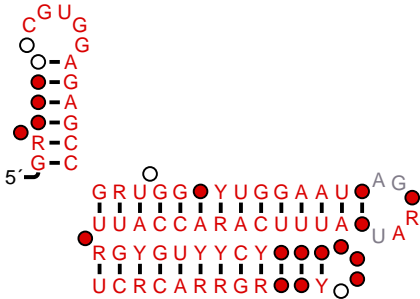


Diagram illustrating a complex RNA secondary structure, likely a ribozyme or a viral RNA genome, showing multiple stems and loops. The structure is composed of nucleotides represented by letters (A, U, G, C, Y) and colored circles (red, grey, white). Several stems are highlighted with green boxes, indicating base-paired regions. The 5' end is labeled on the left.

# 4erl\_motif\_5Knotty2.stockholm\_1

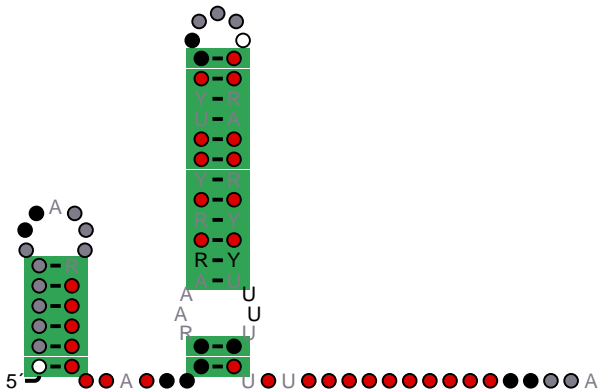




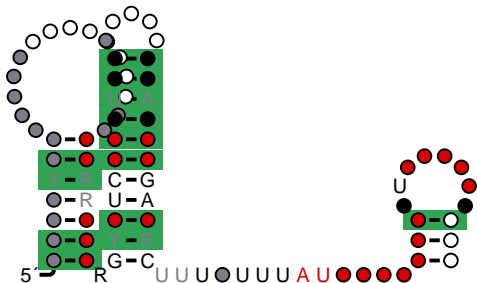
4erl\_motif\_5ScanFold.stockholm\_1



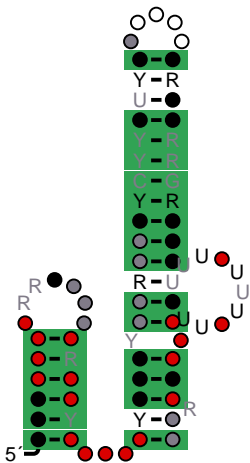
4erl\_motif\_6HFoldScanFold2.stockholm\_1



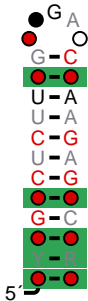
4erl\_motif\_6HFold.stockholm\_1



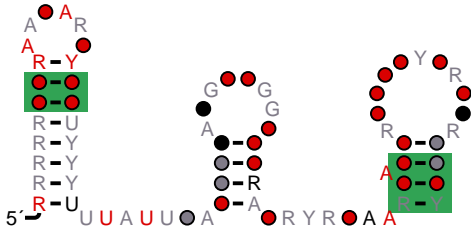
4erl\_motif\_6Knotty1.stockholm\_1



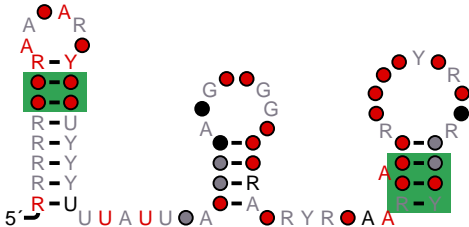
# 4erl\_motif\_6ScanFold.stockholm\_1



# 4erl\_motif\_7HFoldScanFold.stockholm\_1



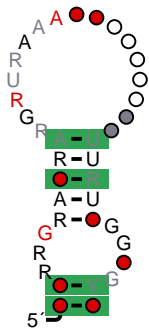
# 4erl\_motif\_7HFold.stockholm\_1



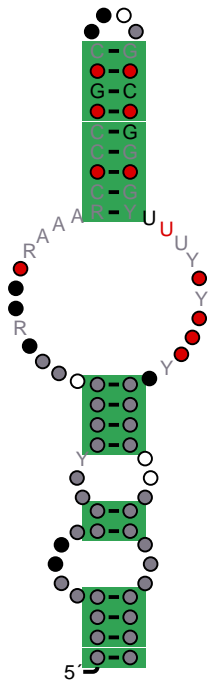




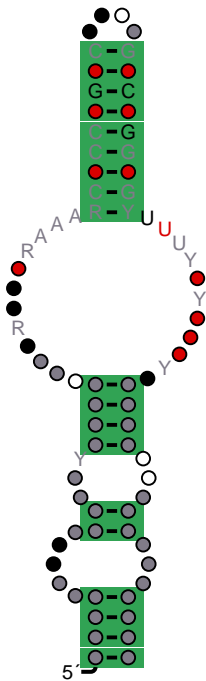
4erl\_motif\_7Knotty2.stockholm\_1



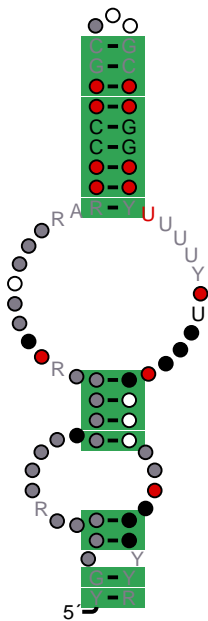
4gxy\_motif\_1HFoldScanFold.stockholm\_1



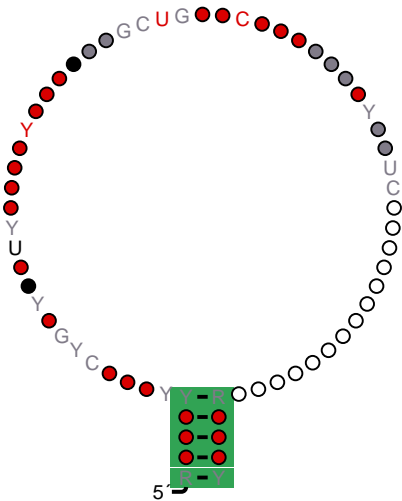
4gxy\_motif\_1HFold.stockholm\_1



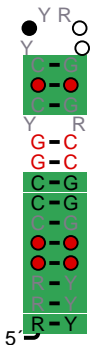
4gxy\_motif\_1Knotty1.stockholm\_1



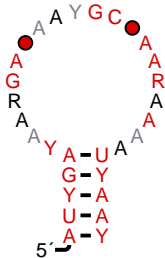
4gxy\_motif\_1Knotty2.stockholm\_1



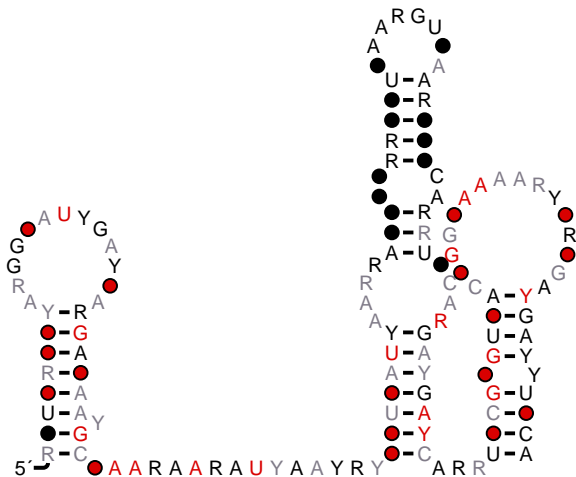
# 4gxy\_motif\_2ScanFold.stockholm\_1



4kqy\_motif\_1HFoldScanFold1.stockholm\_1

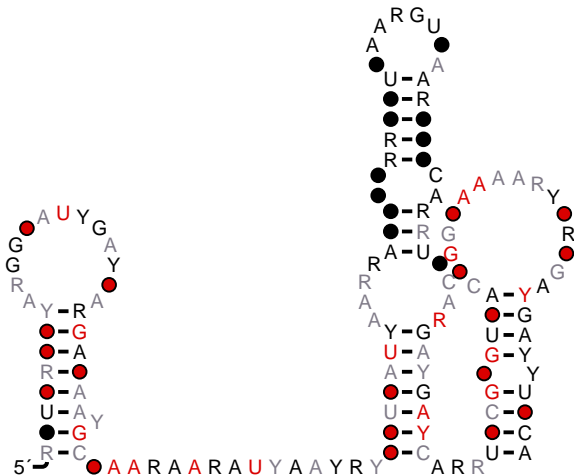


4kqy\_motif\_1HFoldScanFold2.stockholm\_1

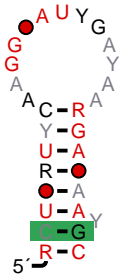




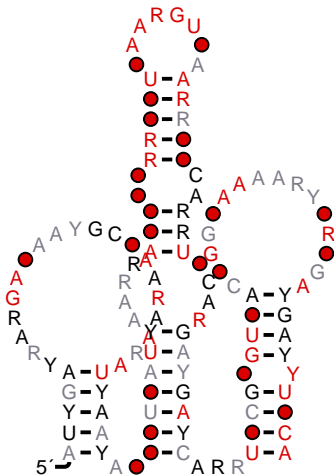
4kqy\_motif\_1HFold.stockholm\_1



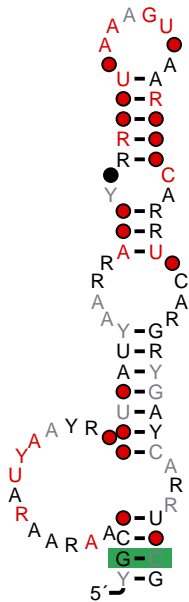
4kqy\_motif\_1Knotty1.stockholm\_1



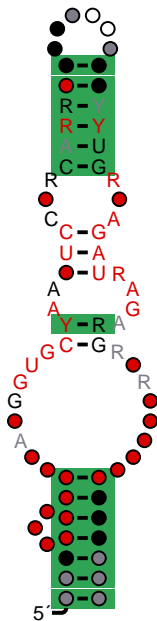
# 4kqy\_motif\_1Knotty2.stockholm\_1



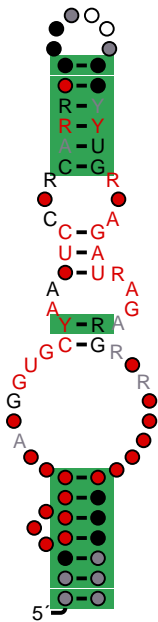
4kqy\_motif\_1ScanFold.stockholm\_1



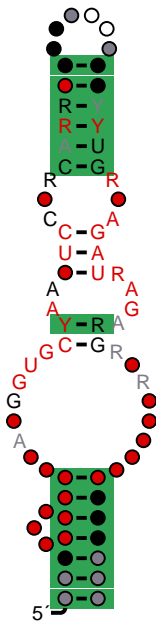
4kqy\_motif\_2HFoldScanFold.stockholm\_1



4kqy\_motif\_2HFold.stockholm\_1

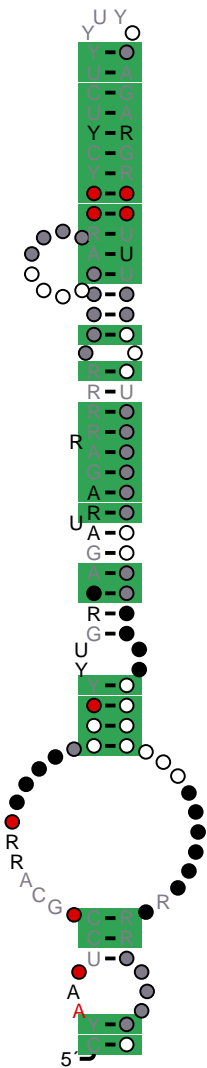


4kqy\_motif\_2Knotty.stockholm\_1

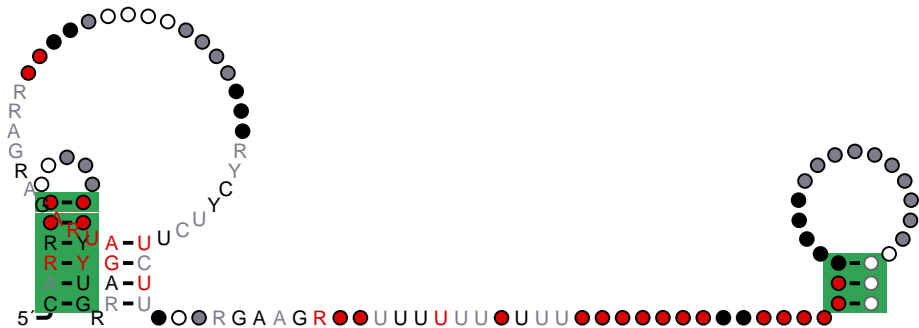


4kqy\_motif\_3HFoldScanFold.stockholm\_1

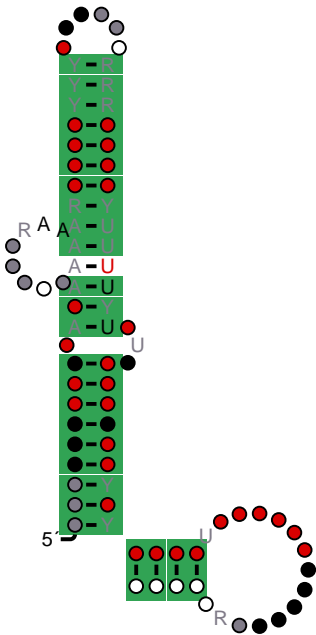




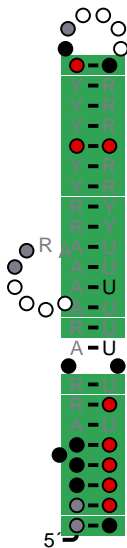
4kqy\_motif\_3Knotty1.stockholm\_1



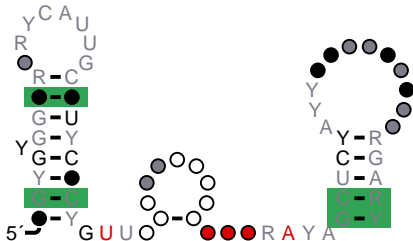
4kqy\_motif\_3Knotty2.stockholm\_1



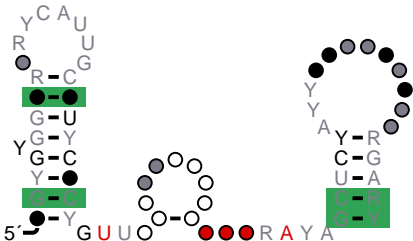
4kqy\_motif\_3ScanFold.stockholm\_1



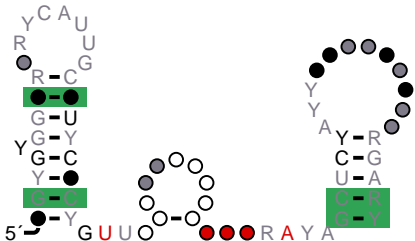
# 4lvv\_motif\_1 HFoldScanFold.stockholm\_1



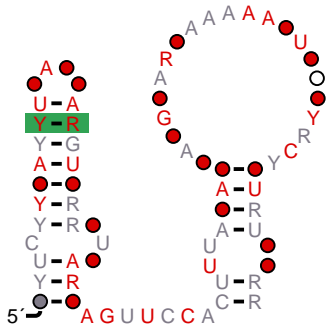
# 4lvv\_motif\_1HFold.stockholm\_1



# 4lvv\_motif\_1Knotty.stockholm\_1

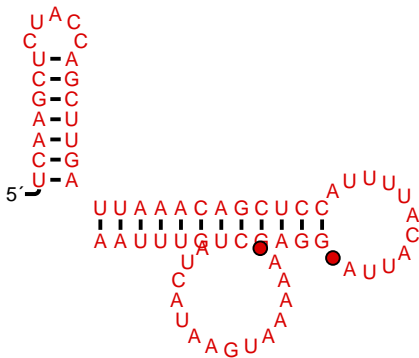


4lvv\_motif\_2HFoldScanFold2.stockholm\_1





# 4lvv\_motif\_2HFold.stockholm\_1

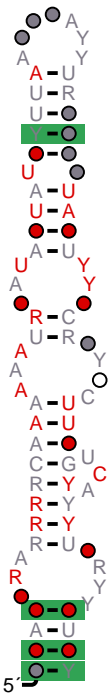


4lvv\_motif\_2Knotty1.stockholm\_1

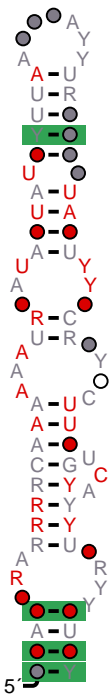




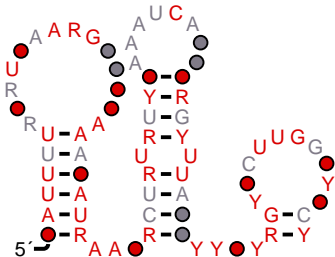
4lvv\_motif\_3HFoldScanFold.stockholm\_1



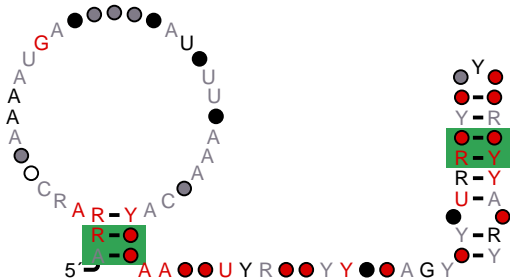
# 4lvv\_motif\_3HFold.stockholm\_1



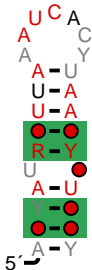
4lvv\_motif\_3Knotty1.stockholm\_1



4lvv\_motif\_3Knotty2.stockholm\_1

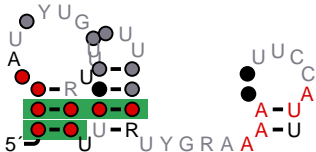


# 4lvv\_motif\_3ScanFold.stockholm\_1

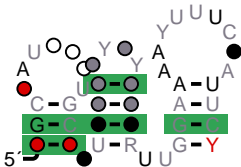




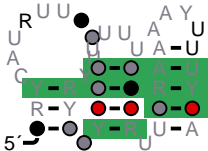
# 4lvv\_motif\_4HFoldScanFold2.stockholm\_1

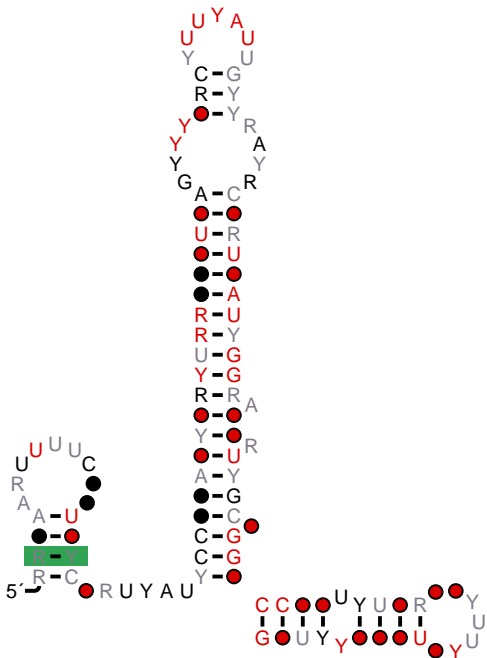


# 4lvv\_motif\_4HFold.stockholm\_1

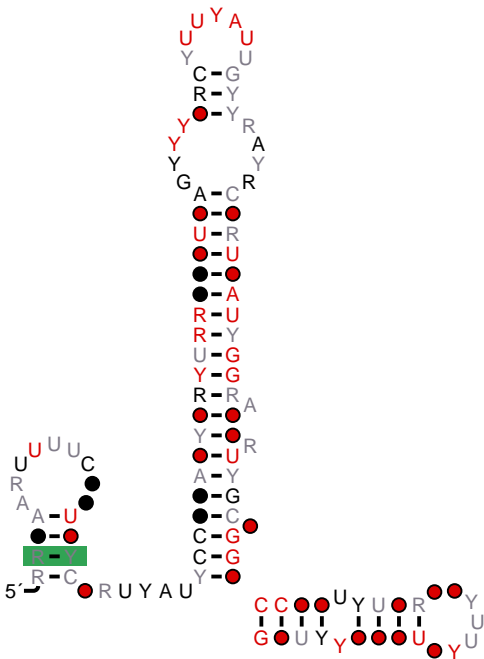


# 4lvv\_motif\_4Knotty1.stockholm\_1

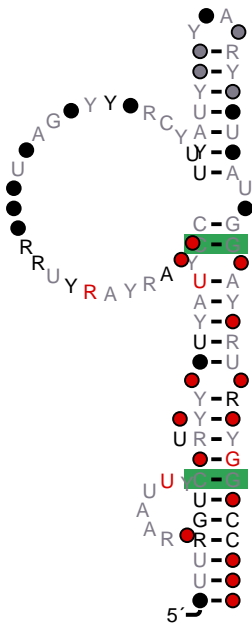




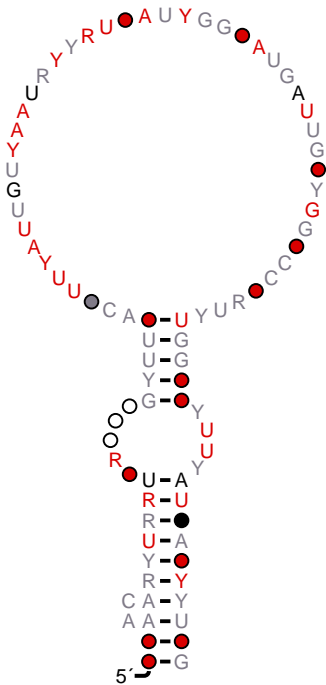
# 4lvv\_motif\_5HFold.stockholm\_1



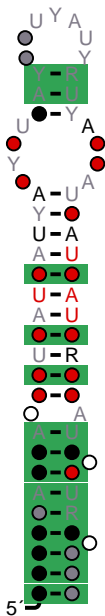
4lvv\_motif\_5Knotty1.stockholm\_1



4lvv\_motif\_5Knotty2.stockholm\_1



## 4lvv\_motif\_5ScanFold.stockholm\_1





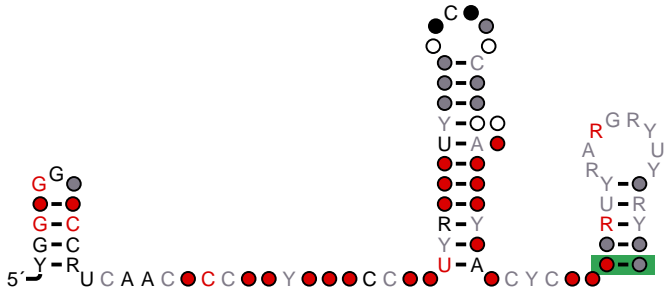
# 4p5j\_motif\_1HFoldScanFold1.stockholm\_1



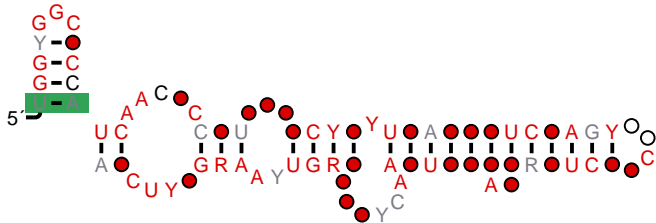
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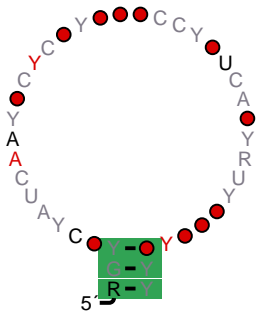
# 4p5j\_motif\_1 HFold.stockholm\_1



# 4p5j\_motif\_1Knotty1.stockholm\_1



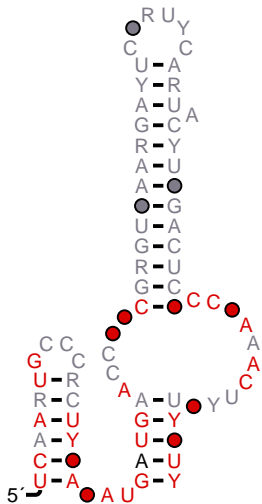
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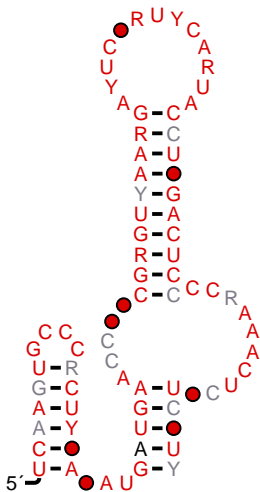
# 4p5j\_motif\_1 ScanFold.stockholm\_1



4p5j\_motif\_2HFoldScanFold.stockholm\_1

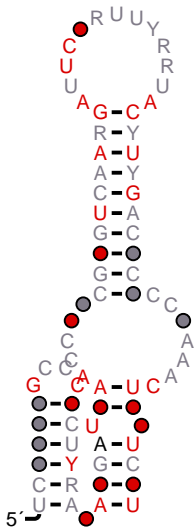


4p5j\_motif\_2HFold.stockholm\_1

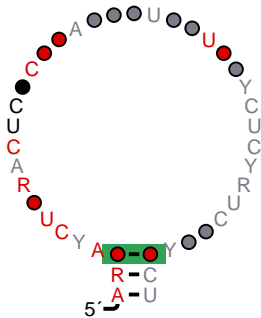




4p5j\_motif\_2Knotty1.stockholm\_1

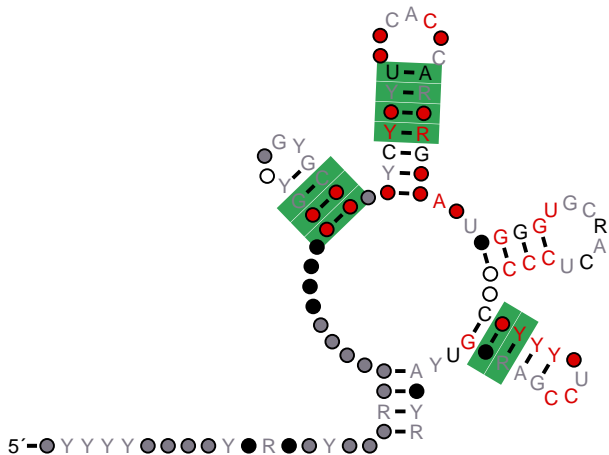


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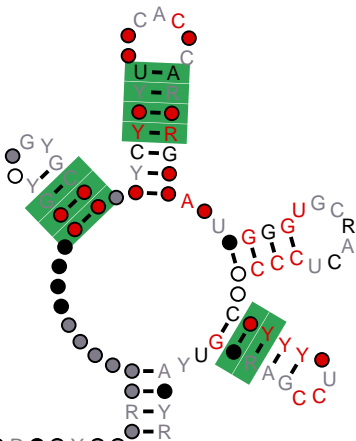




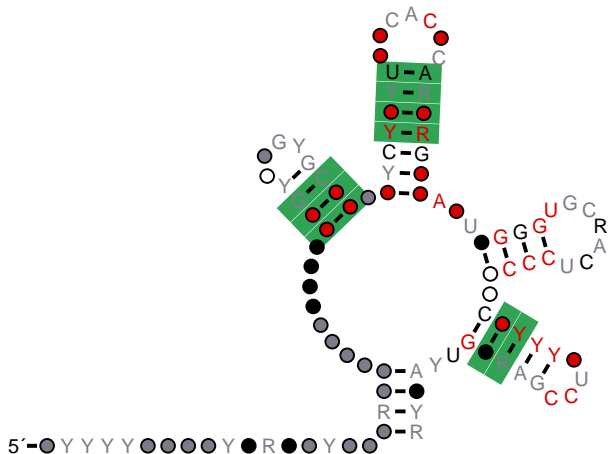
4p5j\_motif\_3HFoldScanFold.stockholm\_1



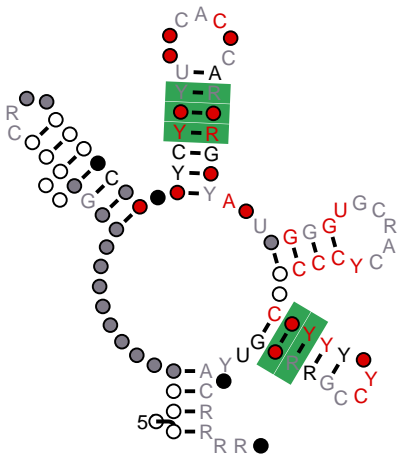
5'-● Y Y Y Y ● ● ● ● Y ● R ● ● Y ● ●



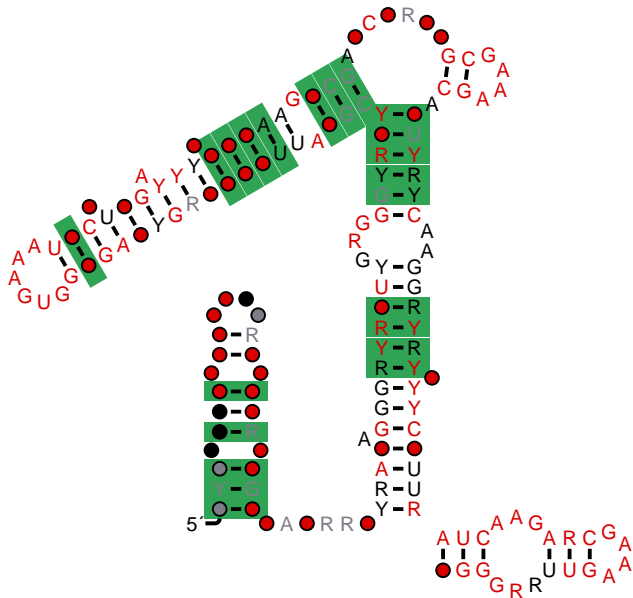
4p5j\_motif\_3Knotty.stockholm\_1



4p5j\_motif\_3ScanFold.stockholm\_1

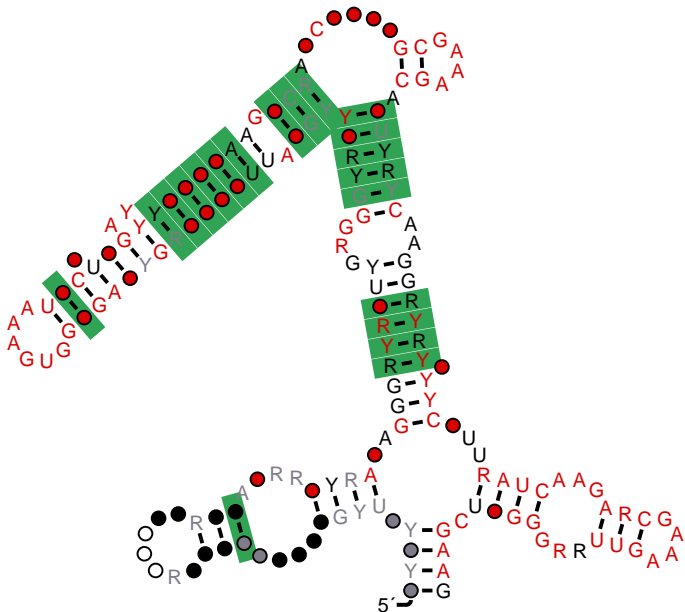


4p9r\_motif\_1HFoldScanFold.stockholm\_1





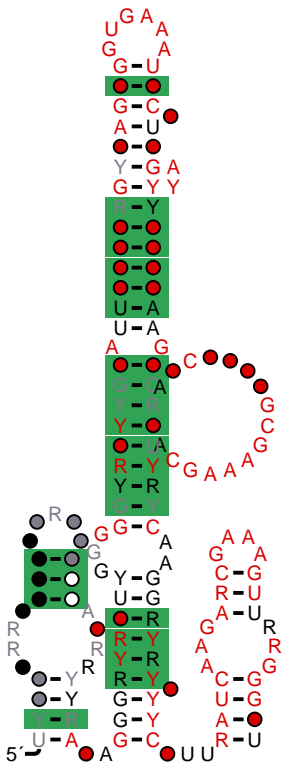
4p9r\_motif\_1 HFold.stockholm\_1



4p9r\_motif\_1Knotty1.stockholm\_1

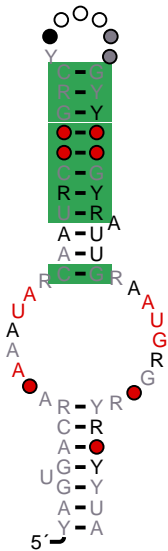


4p9r\_motif\_1Knotty2.stockholm\_1

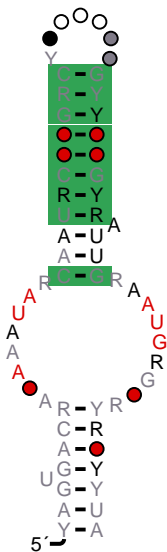




4p9r\_motif\_3HFoldScanFold.stockholm\_1



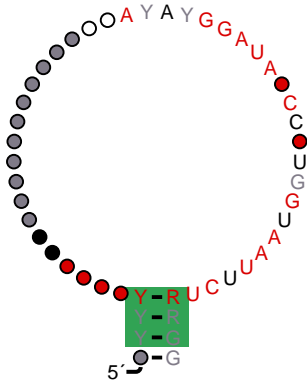
4p9r\_motif\_3HFold.stockholm\_1



# 4p9r\_motif\_3ScanFold.stockholm\_1

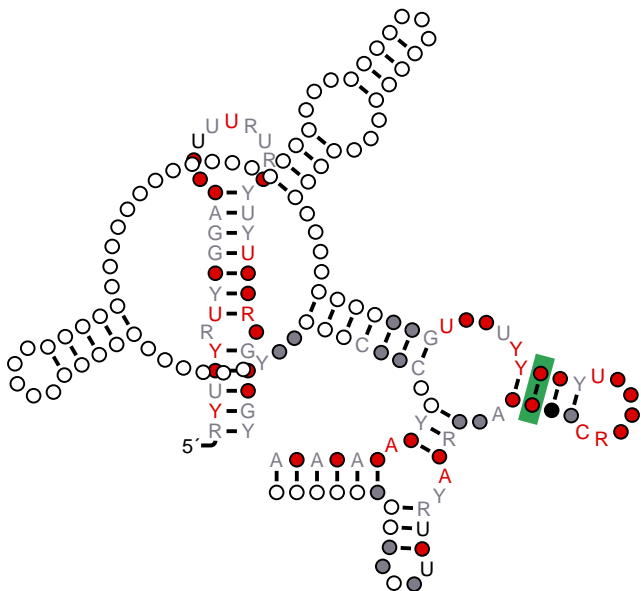


4p9r\_motif\_4Knotty2.stockholm\_1

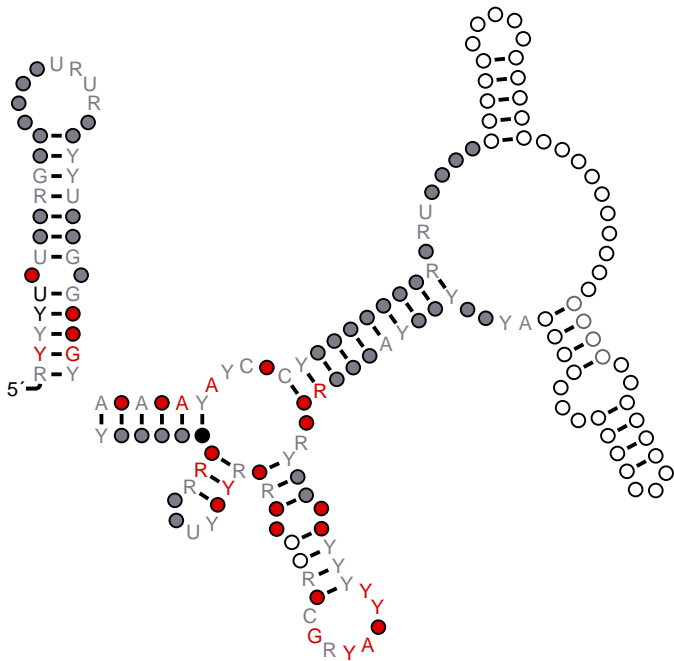




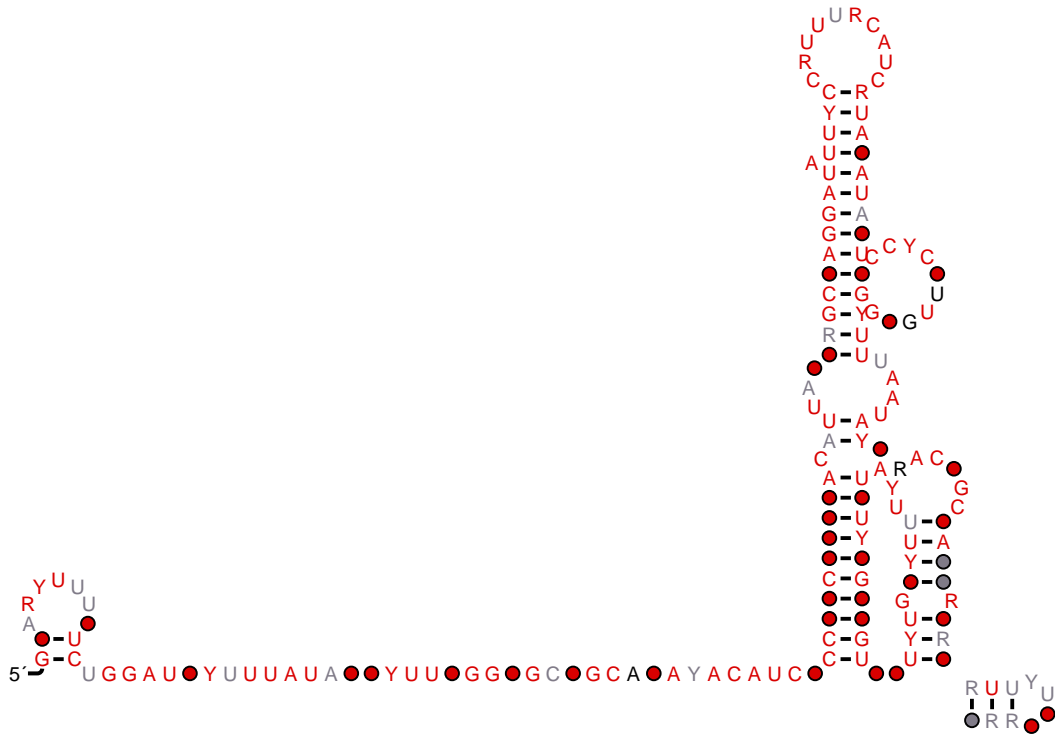
4qlm\_motif\_1HFoldScanFold.stockholm\_1



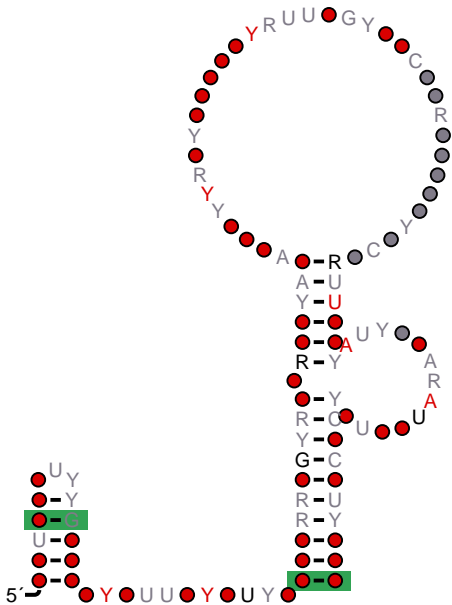
4qlm\_motif\_1HFold.stockholm\_1



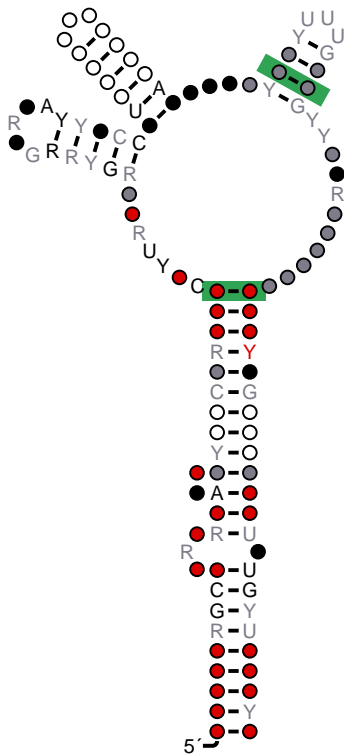
4qlm\_motif\_1Knotty1.stockholm\_1



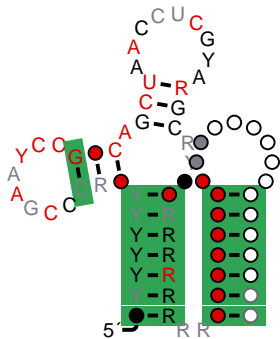
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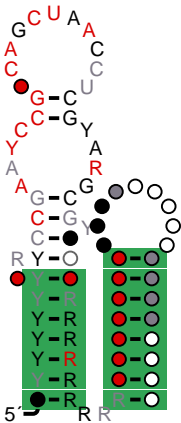
4qlm\_motif\_1ScanFold.stockholm\_1



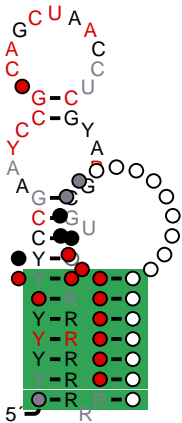
4qlm\_motif\_2HFoldScanFold.stockholm\_1



4qlm\_motif\_2HFold.stockholm\_1

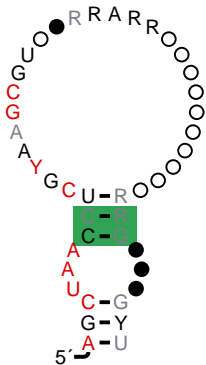


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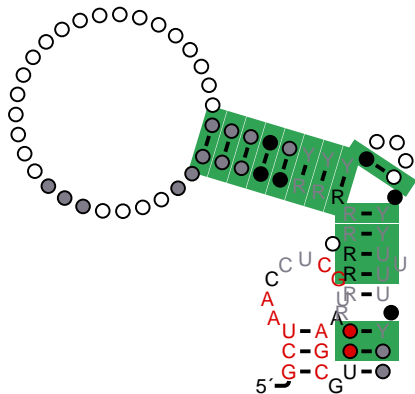




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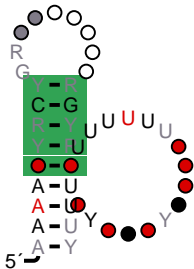


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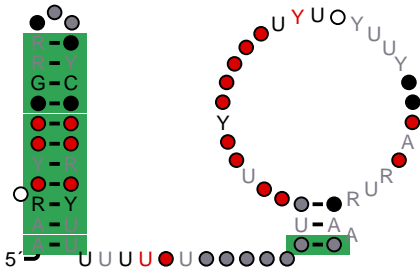




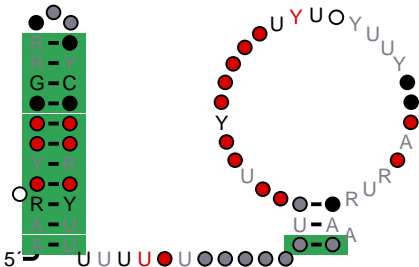
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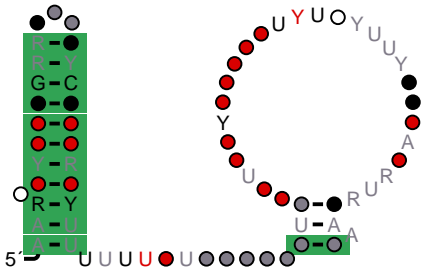
4qlm\_motif\_4HFoldScanFold.stockholm\_1



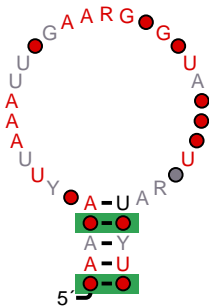
# 4qlm\_motif\_4HFold.stockholm\_1



4qlm\_motif\_4Knotty1.stockholm\_1

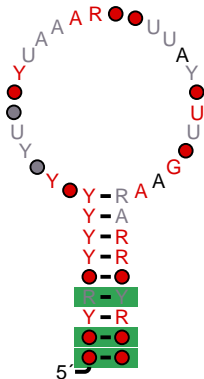


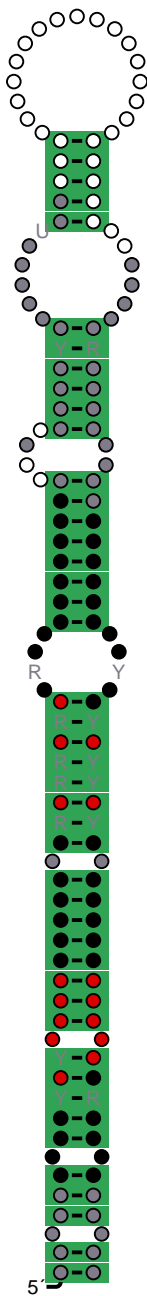
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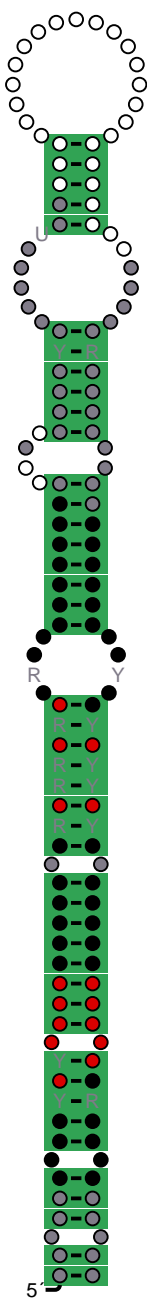


4qlm\_motif\_4ScanFold.stockholm\_1

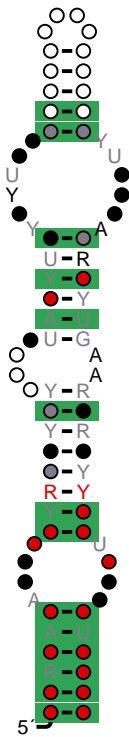




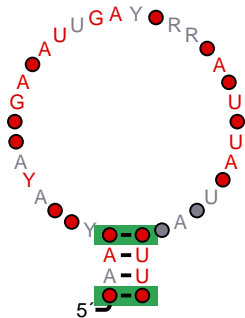




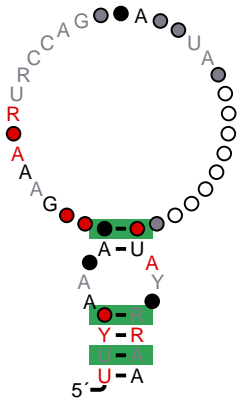
4r4v\_motif\_1ScanFold.stockholm\_1



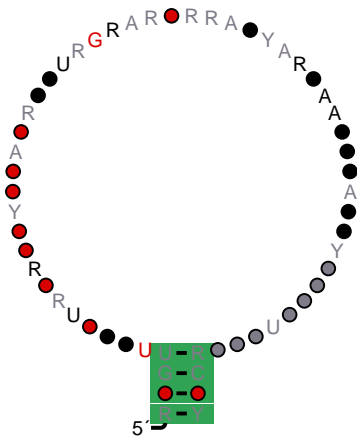
4r4v\_motif\_2HFoldScanFold1.stockholm\_1



4r4v\_motif\_2Knotty1.stockholm\_1



4r4v\_motif\_3Knotty2.stockholm\_1

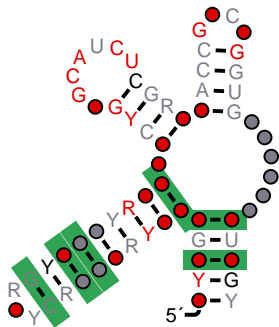




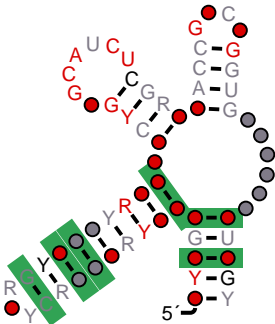
# 4r4v\_motif\_3ScanFold.stockholm\_1



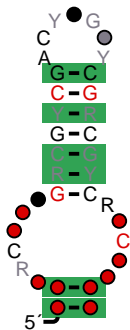
4xw7\_motif\_2HFoldScanFold.stockholm\_1



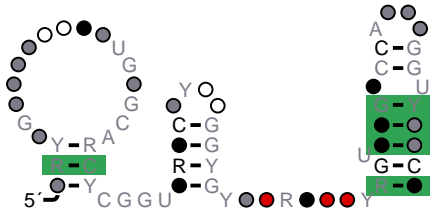
4xw7\_motif\_2HFold.stockholm\_1



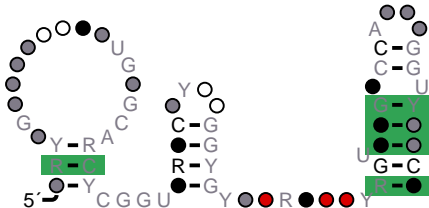
4xw7\_motif\_2Knotty1.stockholm\_1



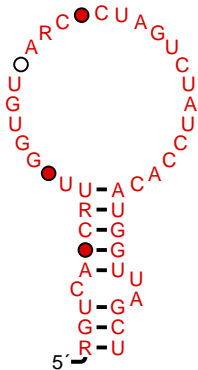
4xw7\_motif\_3HFoldScanFold.stockholm\_1



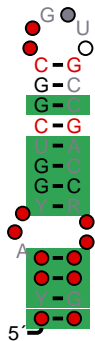
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4xw7\_motif\_3Knotty2.stockholm\_1

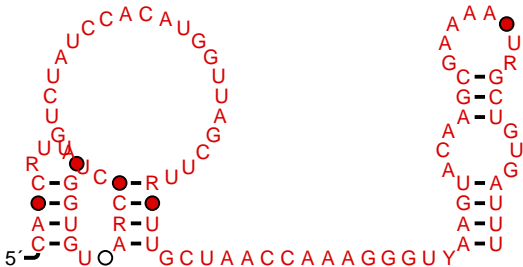


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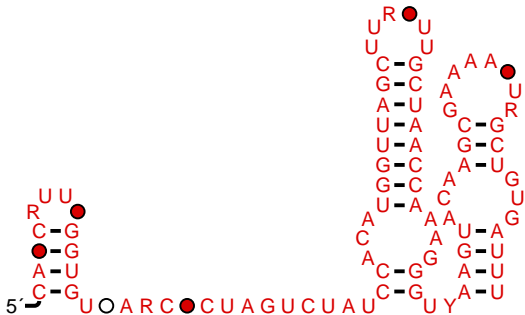




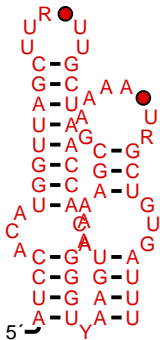
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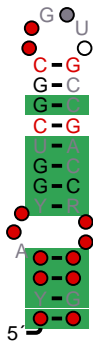
4xw7\_motif\_4HFold.stockholm\_1



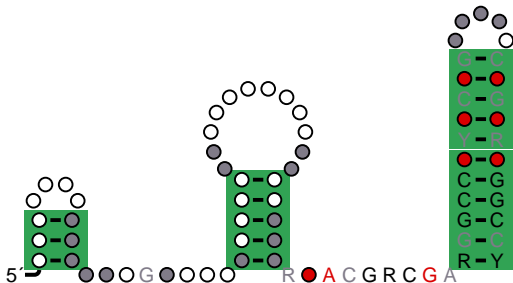
# 4xw7\_motif\_4Knotty2.stockholm\_1



# 4xw7\_motif\_4ScanFold.stockholm\_1



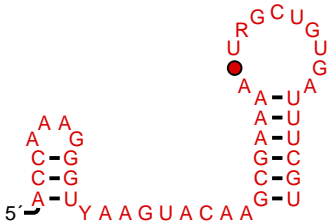
# 4xw7\_motif\_5HFoldScanFold2.stockholm\_1



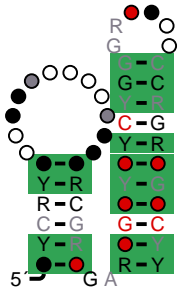
# 4xw7\_motif\_5HFold.stockholm\_1



4xw7\_motif\_5Knotty1.stockholm\_1

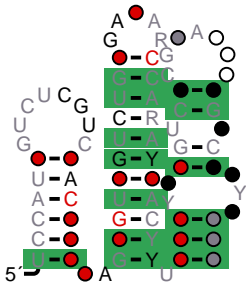


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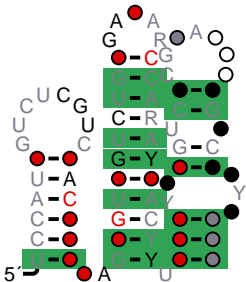




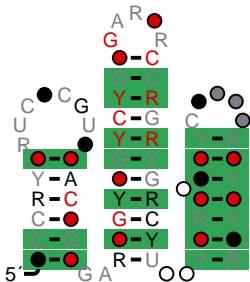
# 4xw7\_motif\_6HFoldScanFold.stockholm\_1



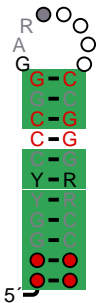
# 4xw7\_motif\_6HFold.stockholm\_1



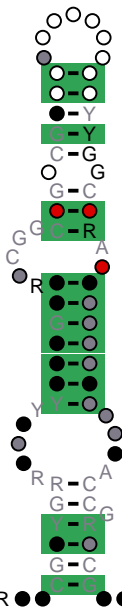
# 4xw7\_motif\_6Knotty1.stockholm\_1



# 4xw7\_motif\_6ScanFold.stockholm\_1

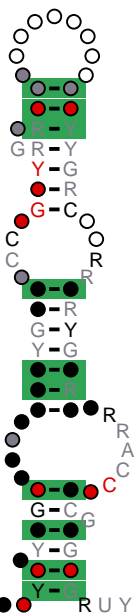


4xw7\_motif\_7HFoldScanFold.stockholm\_1



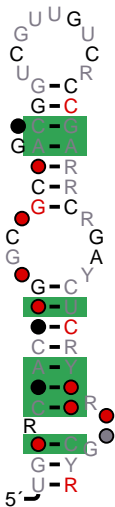
5'-● R ●● C-G ●●● G ●●

4xw7\_motif\_7HFold.stockholm\_1

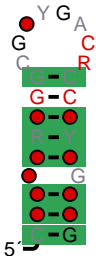


5'-●G●●Y-G RUYGRC

# 4xw7\_motif\_7Knotty2.stockholm\_1

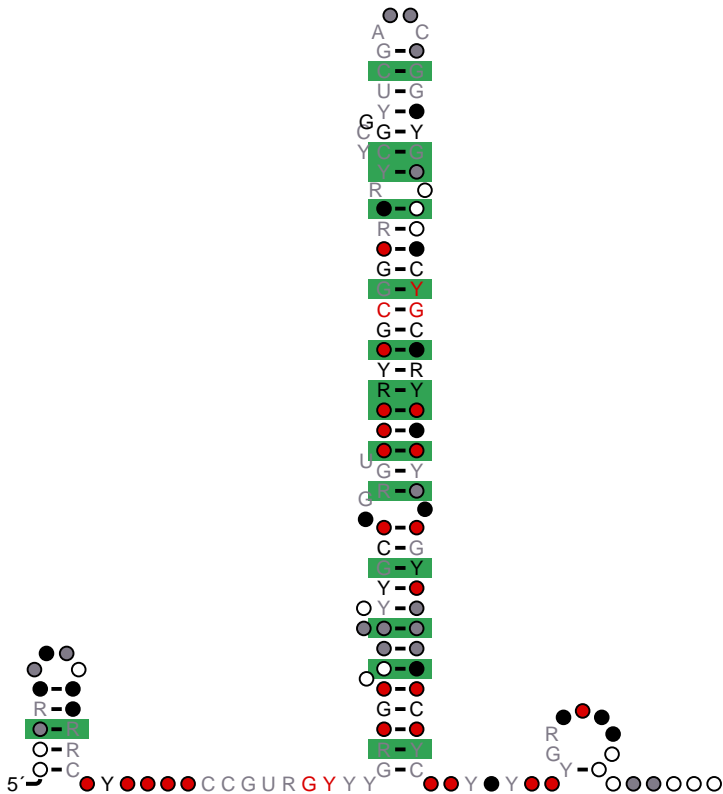


# 4xw7\_motif\_7ScanFold.stockholm\_1

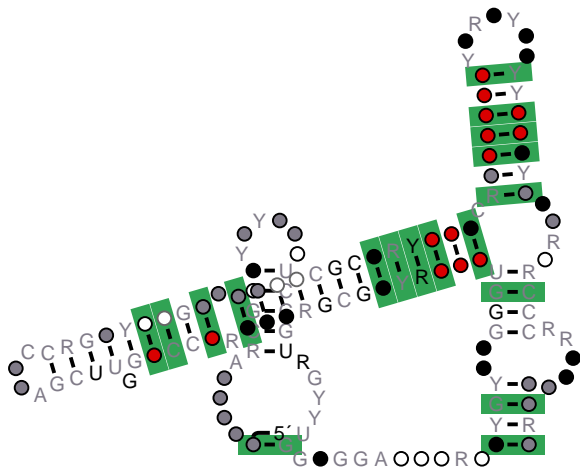




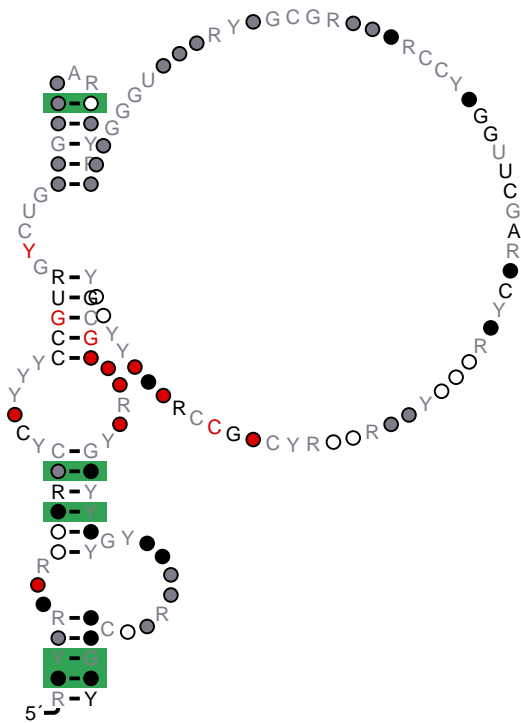
# 6ol3\_motif\_1HFoldScanFold.stockholm\_1



# 6ol3\_motif\_1HFold.stockholm\_1



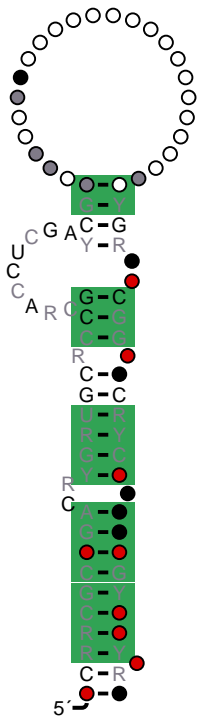
## 6ol3\_motif\_1Knotty1.stockholm\_1



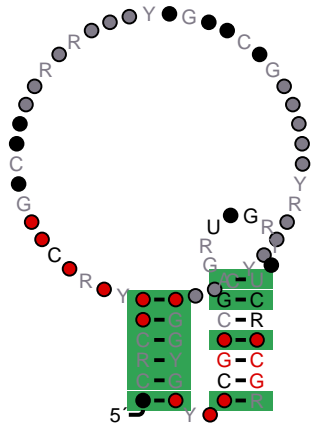




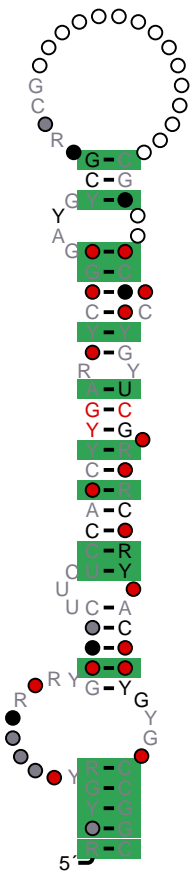
6tb7\_motif\_1HFoldScanFold1.stockholm\_1



6tb7\_motif\_1 HFoldScanFold2.stockholm\_1

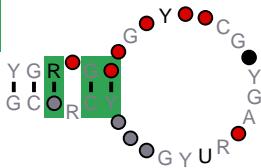
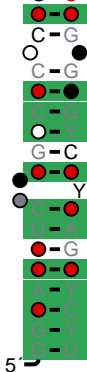
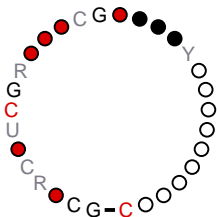


6tb7\_motif\_1HFold.stockholm\_1

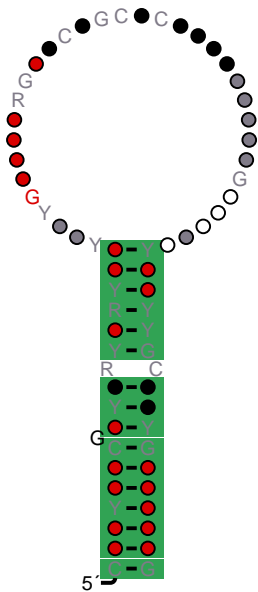




# 6tb7\_motif\_1Knotty1.stockholm\_1



6tb7\_motif\_1Knotty2.stockholm\_1



# 6tb7\_motif\_1 ScanFold.stockholm\_1

