

Table 1. Sequence of the 35-nt accessory domain of clones obtained at the start of continuous evolution (transfer 0) and after transfers 15, 50, 80, and 100

Type I Sequence Motif

90 100 110

5' ... |-----| ... |-----| ... 3'

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100-1* ..... ----- .U..... U..... U
100-2 ..... ----- ..U..... U..... U
100-3 ..... ----- .U..... U..... U
100-4 ..... ----- .U..... U..... U
100-5 ..... ----- .U..... U..... U
100-6 ..... ----- ..U..... U..... U
100-7 ...U----- .U..... U..... U
100-8 ..... ----- .U..... U..... U
100-9 ..... ----- ..U..... U..... U
100-10 ..... ----- .U..... U..... U

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Type II Sequence Motif

cons	---AUGAUAAAGAG--UAGCAUGCGUUGAUGUCGUACAU
0-3U.....
0-4A.....
0-5	.....A.....
0-6	.....
0-7	.....
0-9	.....A.....U..
0-12	AGU..UGC....CU.C....-.G.CA.-.U.----
 cons'	AUG---UUAAGAGUAGCAUGCGUUGAU---GUCGU---ACAUA
15-4	.....A.....
15-7	.....A.....AU..CGU.....
15-8*	.....
15-10	C.....
15-13	...AAA.GGC...C....CCAACAA.AGAAG.....----
15-14	.....
15-15	.....A.....
15-18	.....A.A.....
15-20	.....A.....

Clones conforming to the type I and II sequence motifs are listed separately. Residues identical to the consensus sequence are indicated by a dot; deletions are indicated by a dash. Asterisks indicate representative clones that were chosen for more detailed analysis. Numbering of residues is based on the T80-1 ribozyme (see Fig. 2B).