

1 **Table S1. Primers used for detecting the circular forms and structures missing the**
2 **region of circular form**

Primer	Sequence (5'→3')	Amplicon size (bp)
P1	TGGACAGAACGACACGGATAT	1710
P2	GCAACTGGAGAAGAGCAATGA	
P3	GCAACTACAACCATTACGAGTG	1964
P4	TGTCAGATATGGCTCAAGGATT	
P5	GGATTCAGGAGTGGACAGAAC	2033
P6	GCGTGACGTAACAGGCATT	
P7	GGTCTGGTCAGGCACAAGT	2046
P8	TGGGCGTATCTTTAGCGAGAA	
P9	TGCTTATTGATGGCAATGGTTG	1985
P10	GCGTGACGTAACAGGCATT	
P11	GCAACTACAACCATTACGAGTG	2185
P12	GGGCGTATCTTTAGCGAGAAA	

3 Primers P1-P6 were used for detecting the formation of circular form (P1 and P2 for
4 region between *IS431A* and *IS431C*; P3 and P4 for region between *IS431A* and
5 *IS431B*; P5 and P6 for region between *IS431B* and *IS431C*); primers P7-P12 were
6 used for detecting structure missing corresponding region of circular form (P7 and P8
7 for structure missing region spanning from Δrep to *IS431C*; P9 and P10 for structure
8 missing corresponding region of 12,481-bp circular form, P11 and P12 for structure
9 missing corresponding region of 6,451-bp circular form).