

**Table 2. Primer pairs and their predicted product sizes**

<b>Primer pair</b>	<b>Detection</b>	<b>Predicted size, bp</b>
8F-8M	Region 8 shown in Table 6 (protocol F)	370
8M-8R	Region 8 shown in Table 6 (protocol R)	(348)
9F-9M	Region 9 shown in Table 6 (protocol F)	210
9M-9R	Region 9 shown in Table 6 (protocol R)	(200)
10F-10M	Region 10 shown in Table 6 (protocol F)	290
10M-10R	Region 10 shown in Table 6 (protocol R)	(375)
11F-11M	Region 11 shown in Table 6 (protocol F)	300
11M-11R	Region 11 shown in Table 6 (protocol R)	(286)
12F-12M	Region 12 shown in Table 6 (protocol F)	250
12M-12R	Region 12 shown in Table 6 (protocol R)	(253)
13F-13M	Region 13 shown in Table 6 (protocol F)	170
13M-13R	Region 13 shown in Table 6 (protocol R)	(190)
14F-14M	Region 14 shown in Table 6 (protocol F)	210
14M-14R	Region 14 shown in Table 6 (protocol R)	(190)
15F-15M	Region 15 shown in Table 6 (protocol F)	300
15M-15R	Region 15 shown in Table 6 (protocol R)	(382)
16F-16M	Region 16 shown in Table 6 (protocol F)	210
16M-16R	Region 16 shown in Table 6 (protocol R)	(210)
18F-18M	Region 18 shown in Table 6 (protocol F)	210
18M-18R	Region 18 shown in Table 6 (protocol R)	(330)
19F-19M	Region 19 shown in Table 6 (protocol F)	270
19M-19R	Region 19 shown in Table 6 (protocol R)	228
20F-20M	Region 20 shown in Table 6 (protocol F)	340
20M-20R	Region 20 shown in Table 6 (protocol R)	(434)
21F-21M	Region 21 shown in Table 6 (protocol F)	300
21M-21R	Region 21 shown in Table 6 (protocol R)	(400)
22F-22M	Region 22 shown in Table 6 (protocol F)	350
22M-22R	Region 22 shown in Table 6 (protocol R)	(350)
23F-23M	Region 23 shown in Table 6 (protocol F)	180
23M-23R	Region 23 shown in Table 6 (protocol R)	(230)
24F-24M	Region 24 shown in Table 6 (protocol F)	410
24M-24R	Region 24 shown in Table 6 (protocol R)	(514)

<b>Primer pair</b>	<b>Detection</b>	<b>Predicted size, bp</b>
25F-25M	Region 25 shown in Table 6 (protocol F)	270
25M-25R	Region 25 shown in Table 6 (protocol R)	(240)
26F-26M	Region 26 shown in Table 6 (protocol F)	250
26M-26R	Region 26 shown in Table 6 (protocol R)	(200)
27F-27M	Region 27 shown in Table 6 (protocol F)	200
27M-27R	Region 27 shown in Table 6 (protocol R)	(220)
28F-28M	Region 28 shown in Table 6 (protocol F)	450
28M-28R	Region 28 shown in Table 6 (protocol R)	(378)
29F-29M	Region 29 shown in Table 6 (protocol F)	260
29M-29R	Region 29 shown in Table 6 (protocol R)	(327)
J1-J2	Region 30	450
K1-K2	Region 30	340
L1-L2	Region 30	520
J1-K1	Region 30 (inversion of segment 1)	(446)
J2-K2	Region 30 (inversion of segment 1)	(344)
J1-L1	Region 30 (group inversion of segments 1 and 2)	(578)
J2-L2	Region 30 (group inversion of segments 1 and 2)	(392)
K1-L2	Region 30 (group inversion of segments 1 and 2 plus inversion of segment 1)	(388)
K1-L1	Region 30 (inversion of segment 2)	(496)
K2-L2	Region 30 (inversion of segment 2)	(364)
J2-K1	Region 30	-
K2-L1	Region 30	-
J2-L1	Region 30 (inversion of segments 1 plus inversion of segment 2)	(500)
J1-K2	Region 30 (deletion of segment 1)	(448)
J1-L2	Region 30 (deletion of segment 1 and 2)	(496)
PS-7F-PS-7R	PS-7 locus	(317)
PS-7F-CTn3R	PS-7 locus	885
CTn3F-PS-7R	PS-7 locus	783
CTn3F-CTn3R	PS-7 locus	(475)
PS-7F-CTn3F	PS-7 locus	-

Primer pairs used to detect the DNA inversion in regions 17 and 31, and their predicted product sizes are shown in Fig. 5 and Table 3, respectively. The nucleotide sequence of

each primer is shown in Table 1. The numbers in parentheses indicate the predicted size of a segment generated by DNA inversion.