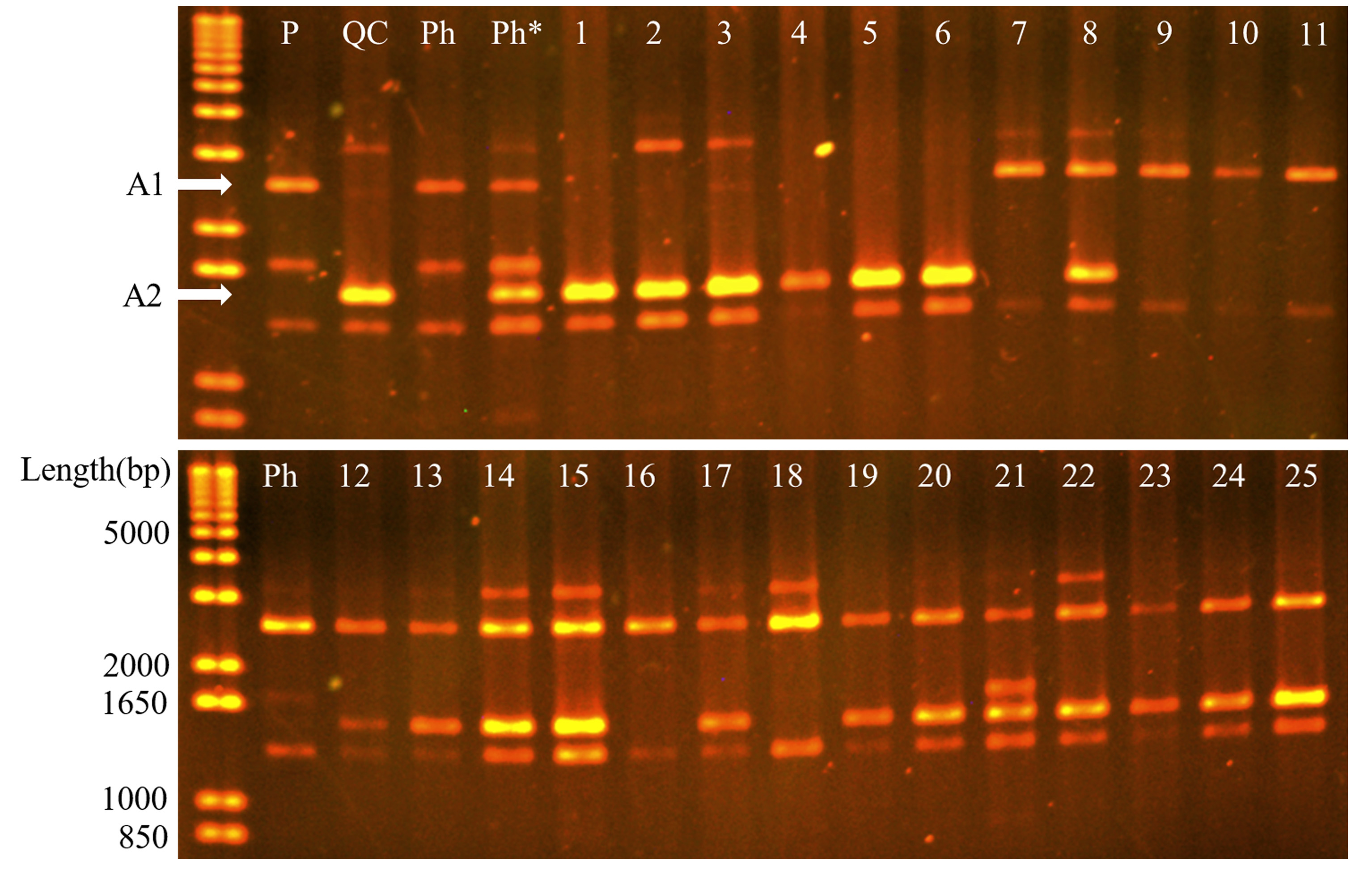


**Figure S1-Additional file 1: *FTL* amplicons in parents and hybrids.** Gel electrophoresis result of identified hybrid plants along with the parents and controls from P x QC crosses. *FTL* gene primers were used for the PCR amplification and a 1Kb+ DNA ladder was used for the amplicon size identification in the first lane. True hybrids have both diagnostic bands, A1 and A2 (arrows). This image has been cropped. The uncropped image is provided in Figure S5-Additional file 2.

Lane labels:

Left: 1 kb+ DNA ladder

Lane 1: Portsmouth (P.1) (maternal parent)  
Lane 2: Quebec (QC4.1) (paternal parent)  
Lane 3: Putative hybrid A “P1F1A” -True hybrid  
Lane 4: Putative hybrid B “P1F1B”  
Lane 5: Putative hybrid C “P1F1C” -True hybrid Lane 6: Putative hybrid D “P1F1D”  
Lane 7: Mixed template   
Lane 8: Mixed PCR product   
Lane 9: Control (no template added)



**Figure S2-Additional file 1: *FTL* amplicons segregating in F2 population.**

Gel electrophoresis of *FTL* amplicons from P and QC parental plants, three putative hybrids (Ph), and the 25 F2 plants in the 1st experiment. The F2 plants are numbered from 1 to 25 in series from top and bottom gels and are arranged according to the flowering time (DAS). The positions of the diagnostic A1 and A2 bands are indicated by arrows to the left of the top gel. The lengths of the 1Kb+ DNA ladder bands used in both gels is represented in bp at the left of the bottom gel. This image has been cropped. The uncropped image is provided in Figure S6-Additional file 2.

Lane labels:

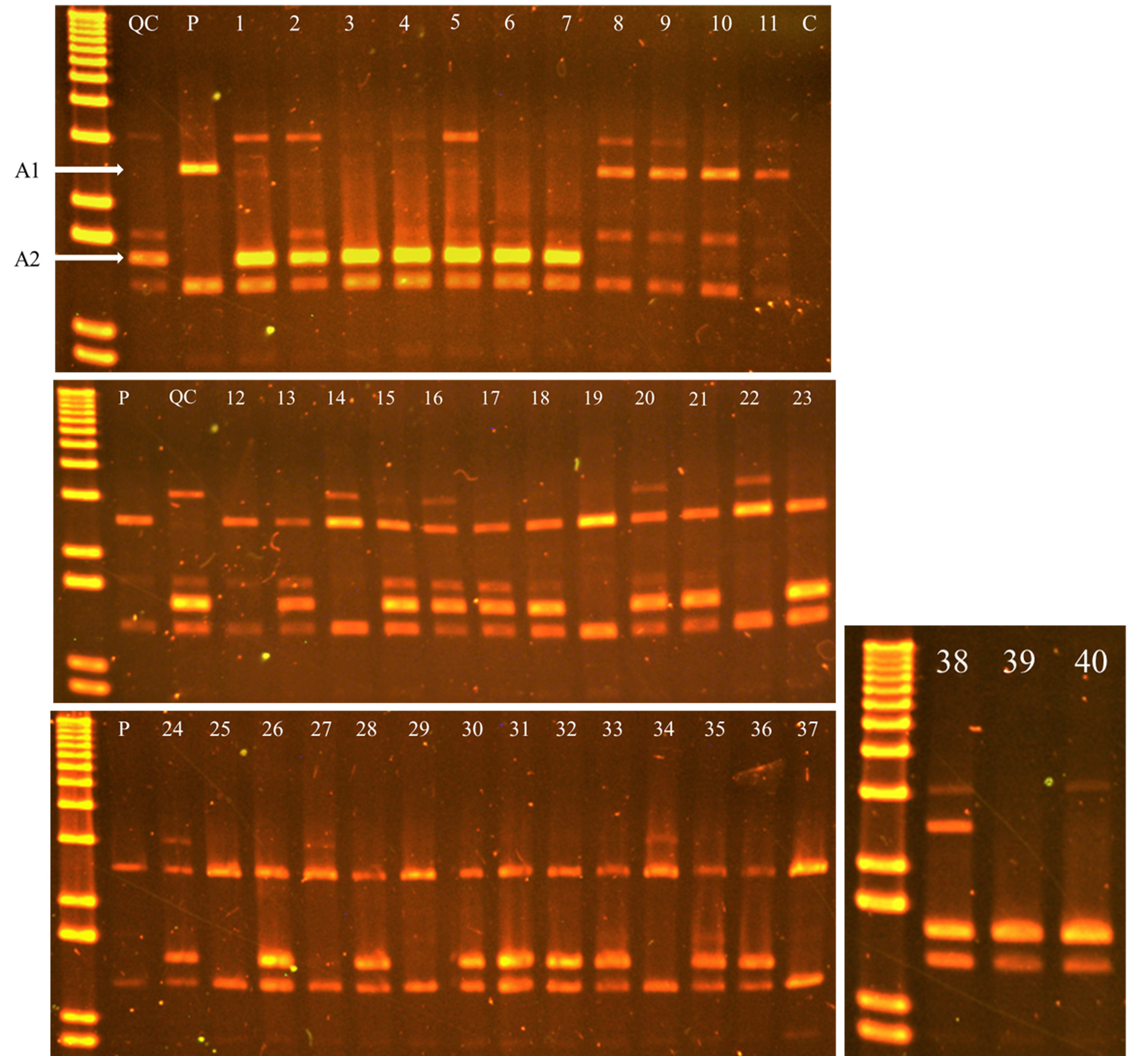
Left: 1 kb+ DNA ladder

P and QC: Portsmouth and Quebec plants, respectively  
Ph: Putative hybrids

1 to 6: F2 plants flowering at greater than 28 DAS  
7 to 11: F2 plants flowering at 21 DAS

12 to 20: F2 plants flowering at 23 DAS

21 to 25: F2 plants flowering at 25 to 29 DAS

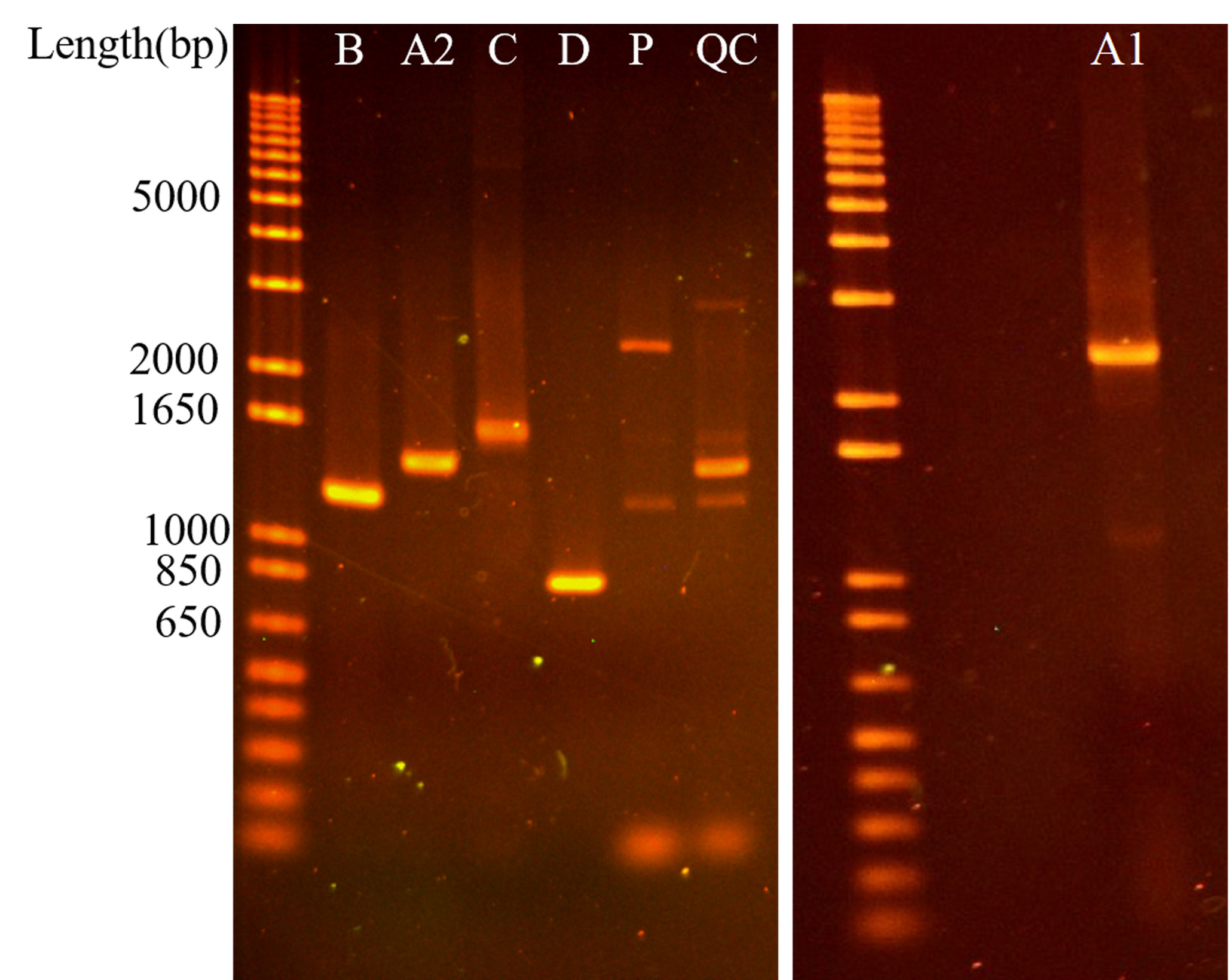


**Figure S3-Additional file 1: *FTL* amplicons segregating in F2 population.** Gel electrophoresis results of three P, two QC, and 40 F2 individuals grown in the 2nd Experiment. The F2 plants are numbered from 1 to 40 in series and are arranged according to the flowering time. The plants were genotyped using the *FTL* locus marker. 1kb + DNA ladder was used for the amplicon size identification in first lane. This image has been cropped. The uncropped image is provided in Figure S7-Additional file 2.

Lane labels:

Left: 1 kb+ DNA ladder  
P and QC: Portsmouth and Quebec plants, respectively  
1 to 7: F2 plants flowering at greater than 28 DAS  
8 to 16: F2 plants flowering at 16-18 DAS  
17 to 38: F2 plants flowering at 20-23 DAS

39 & 40: F2 plants flowering at 27 DAS



**Figure S4-Additional file 1:** **Cloning and gel extraction of *FTL* amplicons.** Gel electrophoresis of cloned amplicons of *FTL* marker system. B, A2, C, and D (left), and the gel extracted amplicon A1 (right) of the *FTL* marker system. The P and QC lanes show the parental accessions amplicons as controls. The lengths of the 1Kb+ DNA ladder bands used in both gels is represented in bp at the left. This image has been cropped. The uncropped image is provided in Figure S8-Additional file 2.