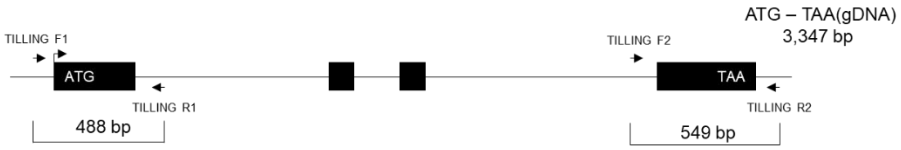
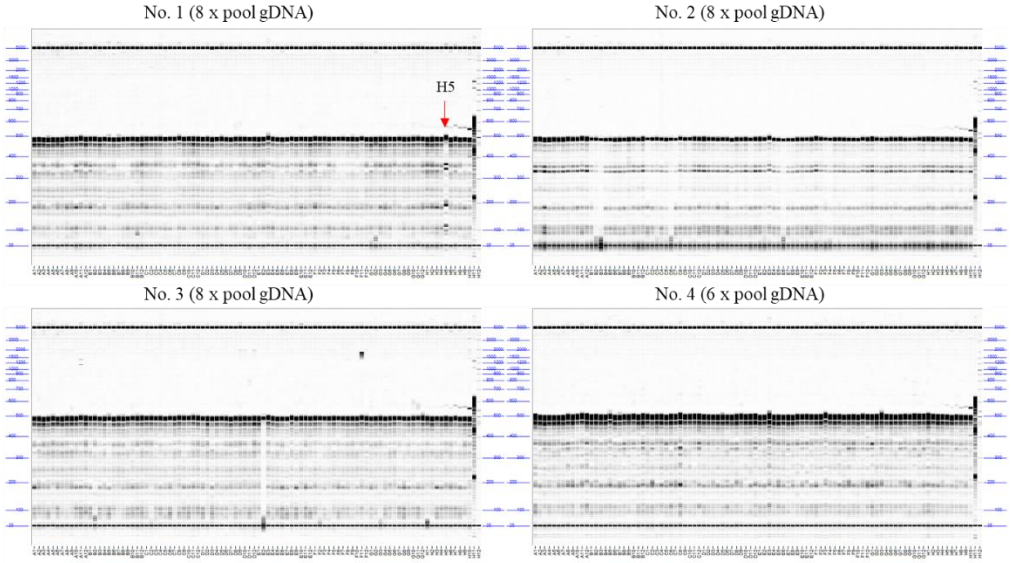
Supplemental Figure 1.

A.



B.



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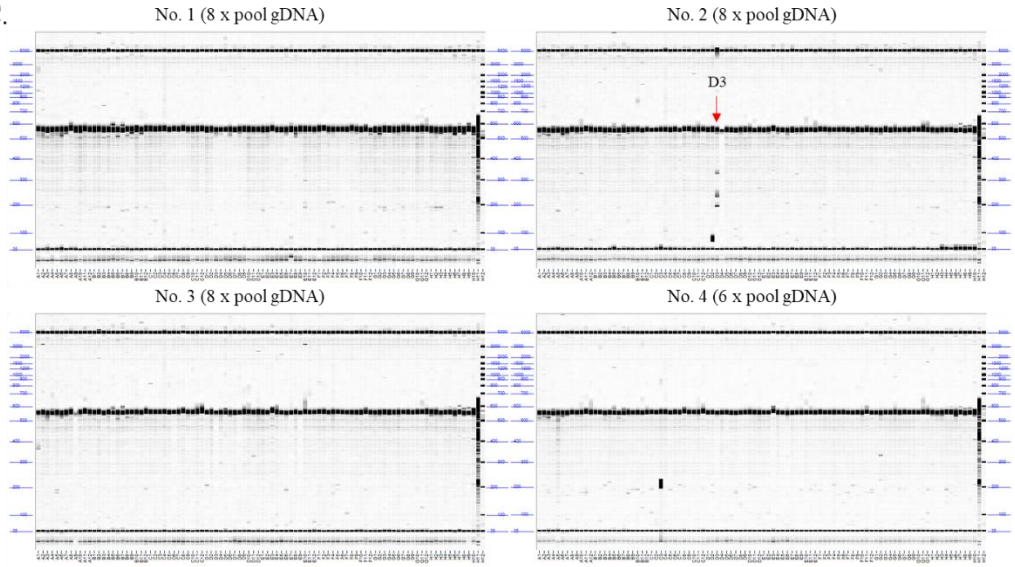
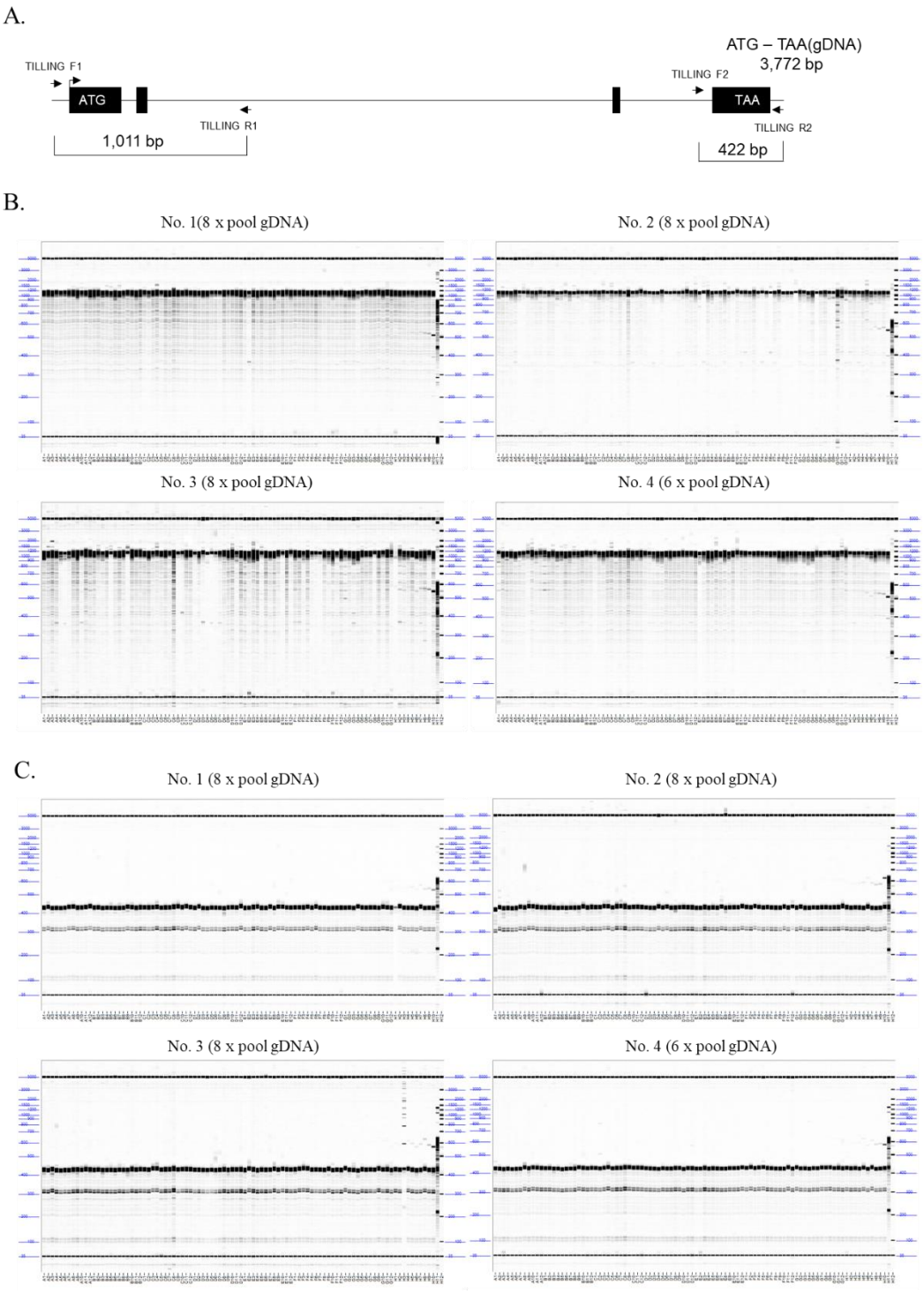
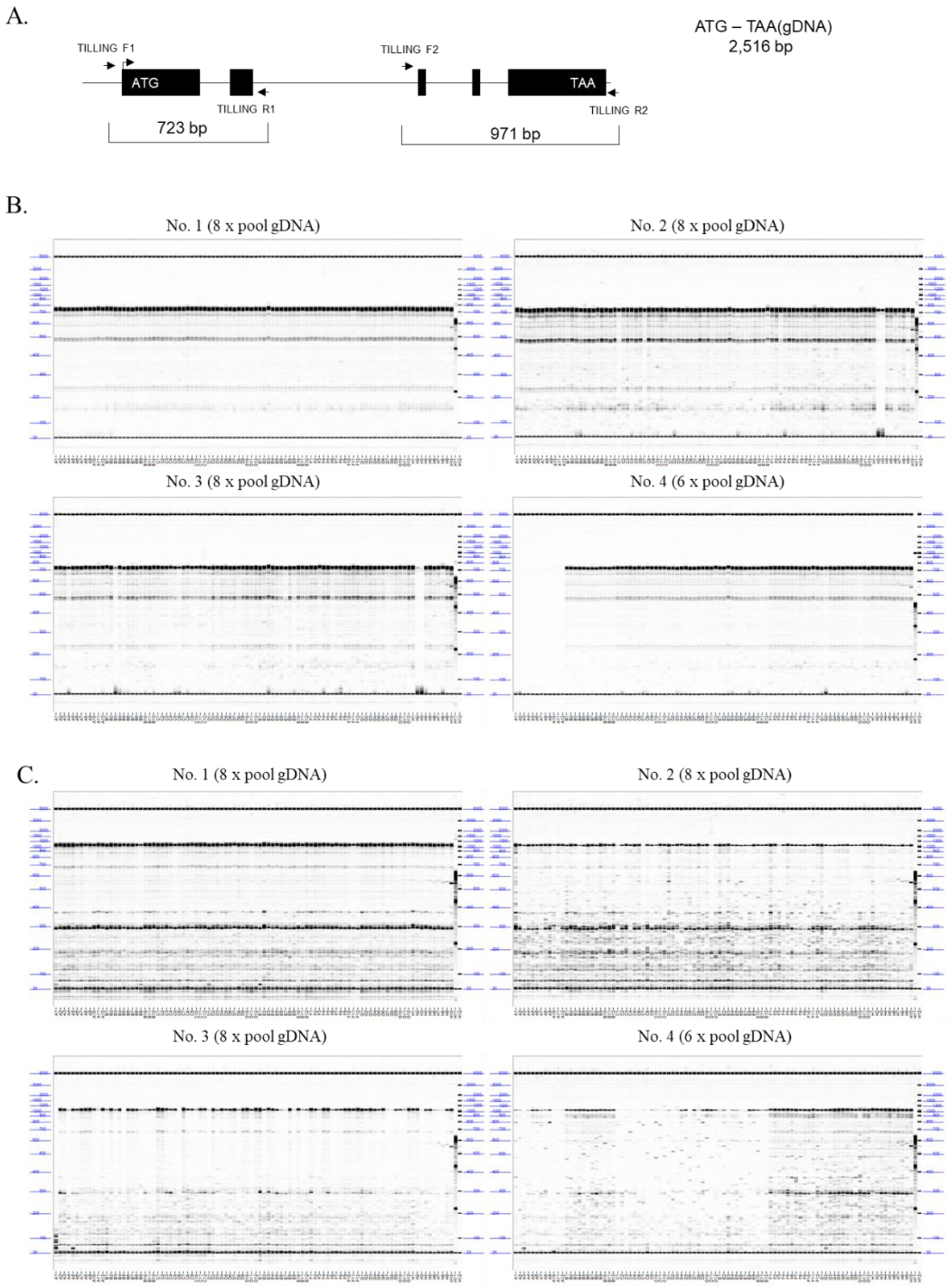


Supplemental Figure 2.



Supplemental Figugre 3.



S Table 1. Primers used in this study

Genes	Name	Sequence (5' ~ 3')
CaFT1	CaFT1-1-F	CCTAGAGGATGAGAGCTACTC
	CaFT1-1-R	GTGCGAAGACTCCTCCAATTTC
	CaFT1-2-F	GTGAGTTTGTCGTCCTCCGC
	CaFT1-2-R	GTTGTACCGTGGCGAATCCTC
CaFT3	CaFT3-1-F	CTCTACCAGTTACTCCAAGGC
	CaFT3-1-R	CTCTCCTCAGACTCACCATC
	CaFT3-2-F	GTATCCCACCACATAGGGAC
	CaFT3-2-R	GGCTGATGGTCCTCTTCTTAG
CaFT4	CaFT4-1-F	AGCTAGTTCCTCCATTTGATAAAAG
	CaFT4-1-R	CCTTGTTGACGTACTATCTGAATAG
	CaFT4-2-F	CCAGAACGACCACAAGTTTC
	CaFT4-2-R	CCTCCTGAATCCTGAATCCTG
CaFT6	CaFT6-1-F	CTCTTCATCAATCAGTATCACCCG
	CaFT6-1-R	CCCAACCGACCTGATCCAACC
	CaFT6-2-F	GGGGGTTGTTGGGTTCTTTATTTTG
	CaFT6-2-R	CAATAAACGCTTGTGGTTCTGCTC

S Table 1. Primers used in this study. The pepper genome sequences are available at the Pepper Genome Platform website (http://peppergenome.snu.ac.kr).

Supplemental Figure 1 (S Figure 1). The result of TILLING with *CaFT3* in 8x or 6x gDNA pool. A. Scheme of *CaFT3* gDNA structure and primers used. The ATG and TAA indicate start and stop codons. The 5' region containing the first exon was referred to as *CaFT3-1* and the 3' region containing a last exon was referred to as *CaFT3-2*. B. The result of TILLING with *CaFT3-1* region. C. The result of TILLING with *CaFT3-2* region. Red arrows indicate the selected wells, which were used for TILLING in 4 x gDNA pool next. Blue letters indicate the size of ladder. H11 and H12 wells in each gDNA pool represent the of G/C positive control and ladder running, respectively.

Supplemental Figure 2 (S Figure 2). The result of TILLING with *CaFT4* in 8x or 6x gDNA pool. A. Scheme of *CaFT4* gDNA structure and primers used. The ATG and TAA indicate start and stop codons. The 5' region containing the first exon was referred to as *CaFT4-1* and the 3' region containing a last exon was referred to as *CaFT4-2*. B. The result of TILLING with *CaFT4-1* region. C. The result of TILLING with *CaFT4-2* region. Blue letters indicate the size of ladder. H11 and H12 wells in each gDNA pool represent the G/C positive control and ladder running, respectively.

Supplemental Figure 3 (S Figure 3). The result of TILLING with *CaFT6* in 8x or 6x gDNA pool. A. Scheme of *CaFT6* gDNA structure and primers used. The ATG and TAA indicate start and stop codons. The 5' region containing the first exon was referred to as *CaFT6-1* and the 3' region containing a last exon was referred to as *CaFT6-2*. B. The result of TILLING with *CaFT6-1* region. C. The result of TILLING with *CaFT6-2* region. Blue letters indicate the size of ladder. H11 and H12 wells in each gDNA pool represent the G/C positive control and ladder running, respectively.