

CellEase Plant

- ① Preparation of test samples.
Cut 2 × 2mm of the leaf and put it in the micro test tube (ordinary use 0.2ml or 0.5ml tubes for PCR).
- ② Reagents
Mix the CellEase A and B.
(15 µl of CellEase A, 15 µl of CellEase B)
- ③ Add 30ul of the mixture to the sample and homogenize the leaf tissue.
- ④ Incubate at 72°C for 6 minutes.
Then continuously incubate at 95°C for 3 minutes.
- ⑤ Add 15ul of the CellEase C to the test sample.
- ⑥ Transfer 5-10ul of extracts to PCR reaction mixture and amplify the target DNA fragment.

PCR

5~10ul	Test sample
5.0 ul	× 10 buffer(+Mg ²⁺)
5.0 ul	dNTPs
1.0 ul	Forward Primer (10pmol/ul)
1.0 ul	Reverse Primer (10pmol/ul)
0.5 ul	Ex Taq (5 U/ul)

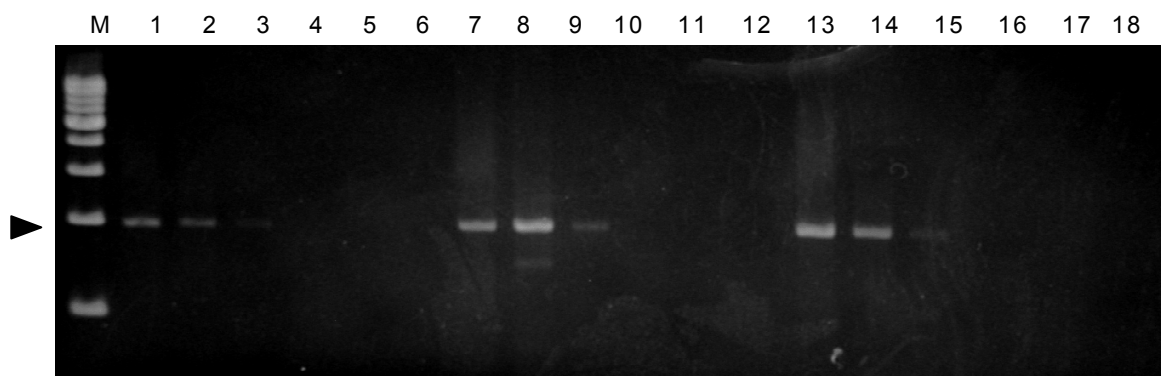
Fill up to 50ul by distilled water

PCR Cycle

94°C	1min
94°C	30sec
55°C	30sec
72°C	60sec
72°C	4min

35 Cycles

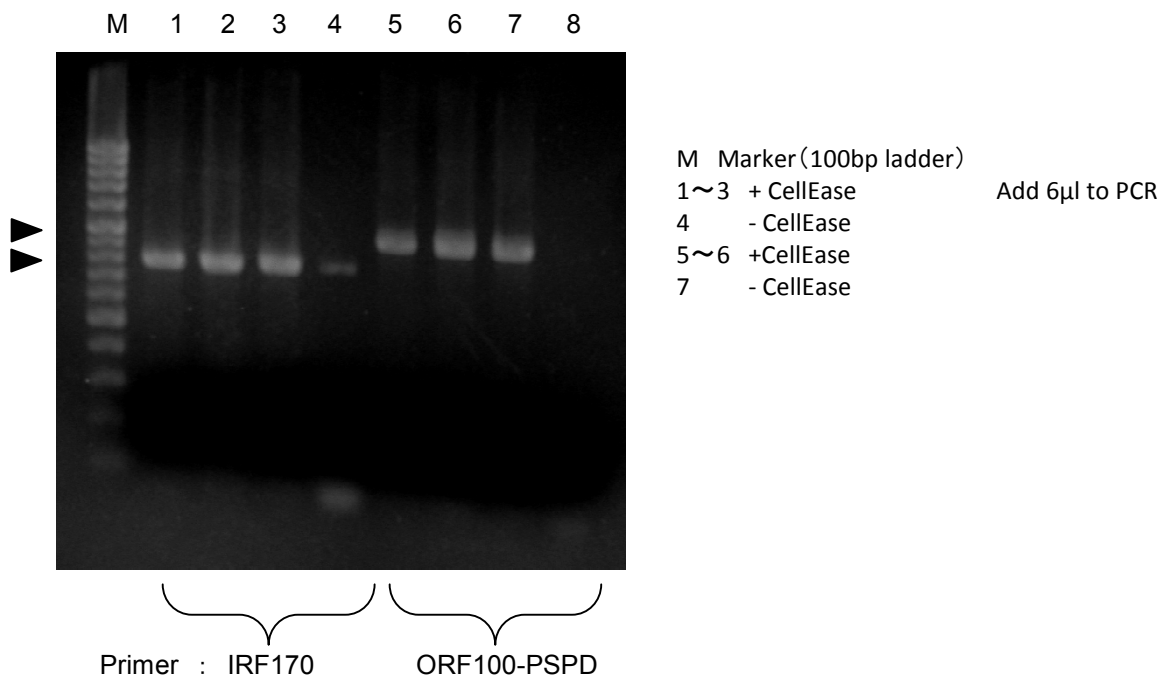
<DNA extraction and detection from tomato leaf>



M	Marker (500bp ladder)	
1	+ CellEase, Without dilution	Add 5µl to PCR
2	+ CellEase, × 10 dilution	Add 5µl to PCR
3	+ CellEase, × 100 dilution	Add 5µl to PCR
4	- CellEase, Without dilution	Add 5µl to PCR
5	- CellEase, × 10 dilution	Add 5µl to PCR
6	- CellEase, × 100 dilution	Add 5µl to PCR
7	+ CellEase, Without dilution	Add 6µl to PCR
8	+ CellEase, × 10 dilution	Add 6µl to PCR
9	+ CellEase, × 100 dilution	Add 6µl to PCR
10	- CellEase, Without dilution	Add 6µl to PCR
11	- CellEase, × 10 dilution	Add 6µl to PCR
12	- CellEase, × 100 dilution	Add 6µl to PCR
13	+ CellEase, Without dilution	Add 7µl to PCR
14	+ CellEase, × 10 dilution	Add 7µl to PCR
15	+ CellEase, × 100 dilution	Add 7µl to PCR
16	- CellEase, Without dilution	Add 7µl to PCR
17	- CellEase, × 10 dilution	Add 7µl to PCR
18	- CellEase, × 100 dilution	Add 7µl to PCR

- ※ The DNA extract was diluted by distilled water respectively and apply to PCR.
 -CellEase : Instead of CellEase reagent, distilled water was used to extract the DNA.
 Primer: A part of heat shock protein gene (hsc 70, 1kbp length) from Tomato (*Lycopersicon esculentum*)

<DNA extraction and detection from rice leaf>



-CellEase : Instead of CellEase reagent, distilled water was used to extract the DNA.

Primer IRF170 : A part of intron-containing reading frame 170 of rice genom.

Primer ORF100 : A part of open reading frame 100 of rice genom.