

Supplementary File

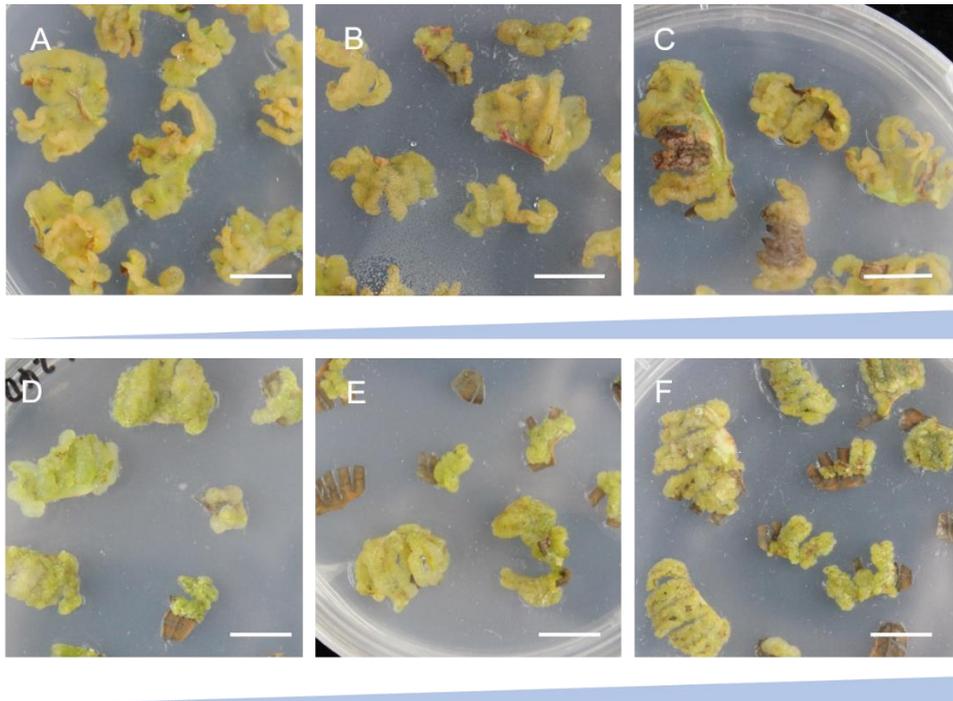


Figure S1 Leaves growth status of *cv.* 'Legacy' in WPM or MS containing different concentrations of 2,4-D

A-C: WPM containing different concentrations of 2,4-D (1, 2, 4 mg·L⁻¹); D-F: MS containing different concentrations of 2,4-D (1, 2, 4 mg·L⁻¹). The scale in the figure is 1cm.

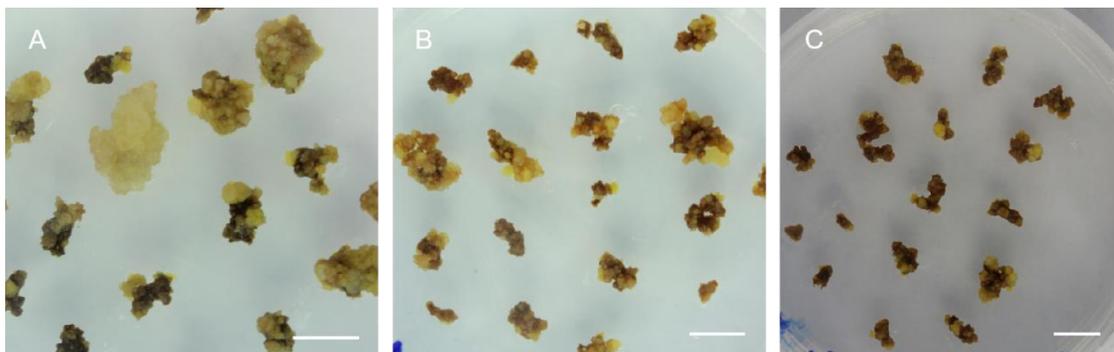


Figure S2 Callus growth status of *cv.* 'Legacy' in WPM containing different concentrations of 2,4-D

A-C: WPM containing different combinations of 2,4-D (1, 2, 4 mg·L⁻¹). The scale in the figure is 1cm.

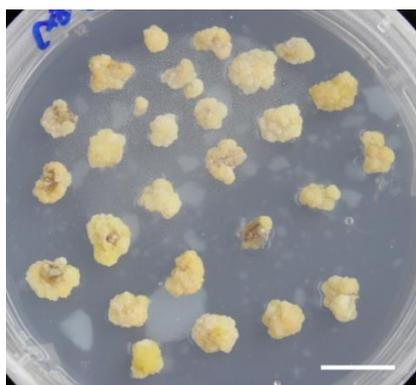


Figure S3 The growth status of callus of *cv.* 'Legacy' in WPM+1.5 mg·L⁻¹ 2,4-D+0.4 mg·L⁻¹ 6-BA medium for 30 days. The scale in the figure is 1 cm.

Table S1 Effects of different combinations of medium and 2,4-D on callus induction for *cv.* 'Legacy'

| Medium | 2,4-D (mg·L ⁻¹) | Cultivation time | | Callus induction condition |
|--------|-----------------------------|------------------|-----|--|
| | | | (d) | |
| MS | 1 | | 35 | Leaf curl, leaf surface grow thin light green callus |
| | 2 | | 35 | |
| | 4 | | 35 | |
| WPM | 1 | | 35 | Leaf curl, surface and wound developed orange callus |
| | 2 | | 35 | |
| | 4 | | 35 | |

Table S2 Effects of different combinations of plant growth regulator on callus induction for leaves of *cv.* 'Legacy'

| Medium | 2, 4-D (mg·L ⁻¹) | 6-BA (mg·L ⁻¹) | Cultivation time (d) | Growth status |
|--------|------------------------------|----------------------------|----------------------|---|
| WPM | 1 | 0.2 | 35 | Orange callus developed from the leaf wounds |
| | 1 | 0.4 | 35 | Light yellow callus developed on the leaf surface |
| | 1 | 0.6 | 35 | Yellow callus developed on leaf surface |
| | 1 | 0.8 | 35 | Dark yellow callus developed from leaf wounds |
| | 4 | 0.2 | 35 | There was no obvious callus |

| | | | |
|---|-----|----|--|
| | | | inducing from the leaves, and white particles were formed at the wound |
| 4 | 0.4 | 35 | |
| 4 | 0.6 | 35 | |
| 4 | 0.8 | 35 | |

Table S3 Effects of different concentrations of 6-BA on the subculture of callus of *cv.* 'Legacy'

| Medium | 2,4-D (mg·L ⁻¹) | 6-BA (mg·L ⁻¹) | Cultivation time (d) | Callus growth condition |
|--------|-----------------------------|----------------------------|----------------------|--------------------------------|
| WPM | 1.5 | 0.2 | 30 | Pale yellow and grows slowly |
| | 1.5 | 0.4 | 30 | Light yellow and grows rapidly |
| | 1.5 | 0.6 | 30 | light yellow and grows rapidly |
| | 1.5 | 0.8 | 30 | Pale yellow and grows slowly |