

Table 1 Seed fatty acid compositions (%) of the transgenic lines

| Line | C16:0 | C18:0 | C18:1 | C18:2 | C18:3 | C20:1 | C22:1 | VLCFAs |
|----------------------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|--------------|
| <i>BnFAE1-Ri</i> | 3.91±0.25* | 1.77±0.26** | 61.50±0.76** | 17.30±0.79** | 9.31±0.33* | 4.38±0.23** | 1.27±0.07** | 6.21±0.28** |
| <i>BnFAD2-Ri</i> | 2.22±0.08** | 1.25±0.18 | 32.07±0.46** | 1.44±0.10** | 2.67±0.10** | 13.53±0.51* | 45.43±0.77 | 60.34±0.36** |
| <i>BnFAE1-Ri/BnFAD2-Ri</i> | 2.94±0.01** | 1.70±0.10** | 82.76±0.25** | 2.37±0.12** | 3.46±0.07** | 4.98±0.20** | 1.61±0.25** | 6.83±0.19** |
| <i>AtFAE1-SE</i> | 1.13±0.06** | 0.62±0.04** | 12.62±0.45** | 10.08±0.46 | 6.70±0.16** | 5.43±0.49** | 60.16±0.55** | 68.85±0.06** |
| <i>BnFAD2-Ri/AtFAE1-SE</i> | 1.45±0.09** | 0.97±0.05 | 22.52±0.47** | 1.86±0.18** | 3.03±0.10** | 6.26±0.33** | 60.52±0.61** | 70.18±0.76** |
| CY2 | 2.57±0.04 | 1.04±0.08 | 20.53±0.53 | 10.73±0.08 | 8.20±0.29 | 11.73±0.62 | 43.90±0.66 | 56.92±0.45 |

Note: C16:0: Palmitic acid; C18:0: Stearic acid; C18:1: Oleic acid; C18:2: Linoleic acid; C18:3: Linolenic acid; C20:1: Eicosenoic acid; C22:1: Erucic acid; VLCFAs: Very long chain fatty acids including C20:0 (Arachidic acid), C20:1, C22:0 (Behenic acid), C22:1 and C24:0 (Lignoceric acid); Each value is the mean ± standard deviation of three replications; * and ** indicate statistically significant differences compared with CY2 at 0.05 and 0.01 levels, respectively