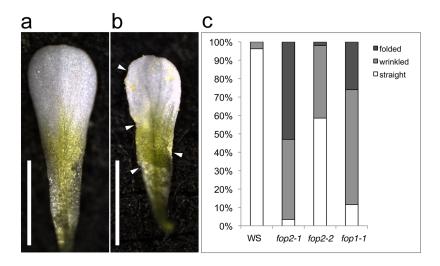
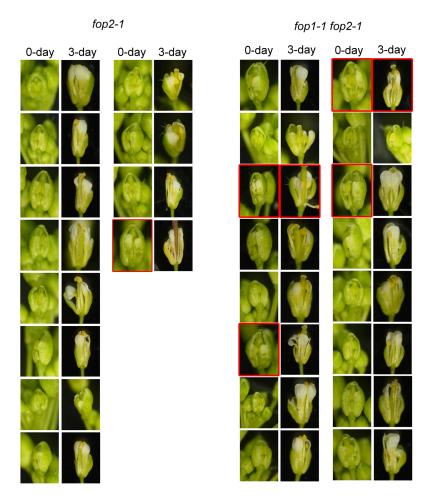
## **Supplementary Material**

**Figure S1.** (a) WS petal. (b) Wrinkled and unfolded petal in *fop2-1*. Arrowheads indicate the wrinkled sites. Bars: 1 mm. (c) Petal character of WS, *fop2*, and *fop1* mutants. Examined flower number: WS, 20; *fop2-1*, 58; *fop2-2*, 38; *fop1-1*, 26.



**Figure S2.** Sepal removal at early stage restores straight elongation of petals in fop2-1 and fop1-1 fop2-1 mutant flowers. Flowers with red square are with folded petals. fop2-1: n = 12, fop1-1 fop2-1: n = 16.



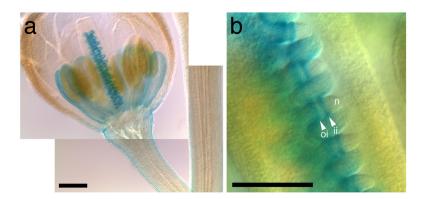
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**Figure S3.** *FOP2/At1g51460* genomic sequence. Bold letters represent exons. Marked nucleotides by red and blue indicate the point mutation in *fop2-1* (changed to T) and 15 bp deletion caused by T-DNA insertion in *fop2-2/SALK* 046735, respectively.

 ${\tt aacaaaagcatacATGACTACGCCGGAGGGGGGGGGTGTATGTGGCGTGGGAGGATCTTACGGTGGTGATACCAAACTTCGGTGAA}$ GGAGCAACTAAGAGATTACTGAATGGATGAATGGTTGTGGTGAGCCAAATAGGATCTTAGCTATTATGGGTCCTTCAGGTTCAG gtttttattatgtatttcttttattgttaaatggttttcctctattatataaatctcaaataagctgaagcaacatcgaccaaca attaaaagatataqtttttagaggaatttaacaaccaaccatttagctttqaaaccaacattaaaqgatqagacttacccact ctttcttttaaaaaattgtccaaggaaactttctcaatatactatgtaaaaagtgtttcacttttggaaaataagaaatttctgt tttcttacattaaaaaatattcacaaatcttttagtaatttttatttggaattgataaggatttctgccattcgtagttaaattt  $\verb|cctattcaacataaaatatttaattattaatcatgtaaattcgtatgtaatcaaaattaactaatatgatacttgattagttt|\\$ tttgtatattggaaaaatacattactacaataaaattgataactttcctatttgaaagcaacaaactatgtacatactgtatcag tat caca a att tgg tgaaat gaaa at att a act gaa g tt tt tgt a ct ct tc tg ta att tt tt tt tt tt tt tc tc tg ta act tt g a consideration of the transfer of t $\verb|caaacgtaacatatatatatgtaaaagaaatttgagagcatgatataacatatttatgtatcaagatatttataactattgaaaa|$ a cagt g ctatat ttatat cta ag ttt cat g ta cac g at g ag a catatat at a g at at ttc ta a cttt at at ttat g g at tct ag ctatatat and a ctt at a ctt at a ctt at a ctt at a ctt a ctatatat a ctatatattaattaataaatttacatcqtcqtacatttaqtattqaataaattqataqttacqtttctctaacqtaqactatqtacaqaaattttg cagta a catttcttatta a atcatatttta a atgtta acca actacca atcacca at attctg acaca a at atttagg attg $\verb|cacgatcg| tatcttcataccgacttgcgatctcttcacaagttgaacccggtttggtgactggtcggactcttttgagggatgtta| tatcttcataccgacttgcgactctttcacaagttgaacccggttttggtgactggtcggactcttttgaggggatgtta| tatcttcataccgacttgcgactctttcacaagttgaacccggttttggtgactggtcggactcttttgaggggatgtta| tatcttcataccgacttgcgactctttcacaagttgaacccggttttggtgactggtcggactcttttgaggggatgtta| tatcttcataccagacttgcgactcgtacgac$  $\verb|cgttcaatccaaaaccaatccaaatcgattattattttcttgaccaaacctaaatttgattggattaagaagatctttattttatilitati$ gcttatgactaatcgaaaccaatttaattttactgtggctaatattcttgtaaaaagcgaaaaaacccaaaaccgggttataagatt  $\tt gttctatcaatgctataagattgttcaaaaacatgaaagatttaacatctaacattaaaaggtaaatttggtgatggtacag \textbf{GAA}$ GATTAGCAGGGAATGTTGTAATGAGTGGCAAAGTACTTGTCAATGGCAAGAAGAAGACTTGACTTTGGTGCCC g taagaaaatttatcttttctctttagtttttacccttttacacaatcaaactattattattcatgaatgtcctaaactctcag GCTTATGTGCCAGAGAAGAGATCAGTGACATTGTGGAAGCTACAATCACTGACATGGGTCTTGAAGAATGTTCAGACAGGACCATTGGAAACTG  ${\tt GCATTTGCGTGGAATAAGCGGAGGAGGAGAAAACGGCTTAGTATTGCCCTCGAGGTCTTAACAAAACCAAGTCTCCTCTTTCTA$ CTTTGGCGAAGCAGAATCTGCAACAAAG g taataagatagagcattggcaagagtatataaaccattatgctcatttgtgttgttgcatgaacttacaatactctcaagcttttgacctcgaccttttacatctgcagGATTCATCTTCTCTCTCACCAACTACATGAA ACTACAAACACATTAGATCCTCTGGATGATATACCAACTGCAGAAATTAGAACACACTTGTCAGAAAATTTAAGTGTTCACTTT acataatgagagtctcataagcacagttataaaccttgtgcaacagGTGGGGATTGTCACAGAAAGGAAAAGGGGGGCCAAACT AATTGGTGGAAACAACTCAGAATACTTACTCAGCGATCTTTCATCAACATGAGTAGAGACTTGGGGTACTACTGGATGCGGATTG  ${\tt CAGTCTACATAGTGTTATCCATTTGTGTCGGGTCAATCTTCTTCAACGTCGGGAGAAACCACACAAATGTTATGAGTACTGCAGC}$ TTGTGGCGGATTTATGGCAGGCTTTATGACATTCATGTCAATAGGAGGATTCCAATCCTTCATTGAAGAAATGAAGGTaaagagc  ${\tt GAAAGGCTCAATGGACACTATGGGGTTGCAGTATACACTGTGTCTAATTTACTCTCCTCATTACCTTTCATAATCCTTATGTGCC}$  ${\tt TCTCCACCAGCTCAATCACTATCTACATGGTGAGGTTCCAATCCGGAGGTTCTCATTTCTTCTACAACTGTCTCGACCTTATCTG}$ TACATTqtaaqqqtqqcctctqtcqctctttcacctacaaqctttcttatatctccaaaaactattctaaattqaaaaccqcttt CCGGTGTCCTACATAAACTATGGTGCATGGGCACTACA Gg taaccaggttttctcaactttaagatgcagactatatcgtcaagt ${\tt CTTGGTACCAAAAATGAAAGGAGAACTCATTCTTCAAACTGTTCTAGGCATAAATCCAGAAAGTTCAAAGTGGTTGGATCTAGCA}$  ${\tt GTTGTGATGATGATTCTCATTGGGTATAGGATTGCCTTCTTCGCCATCCTCAAGTTCCGGGAAAAGGTTTTTCCCAGTTATTCACA}$ TGTTATACACAAAGAGAACTCTGAGCCATATCCAGAAAAGGCCTTCTTTCAGAAGAATGACACCTTTCCCTTCCAGGCGATACCC TGTTCACCATGCTCTCTCTCAGGAAGGACTTAACTCTCCACTGCATTAG a ag catatacag caggatg caatttc catatatacag caggatg caattacag caggatg caggatactatcattctgactaatgagatttgtttagc

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**Figure S4.** GUS staining in *FOP2g:GUS* flowers. (a) GUS stains in petals, ovules, and L1 cells of peduncles. (b) Higher magnification of ovules in (a), showing the expression in outer and inner integuments (arrowheads). n, nucellus; ii, inner integuments; oi, outer integuments. Bars: 20 μm.



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