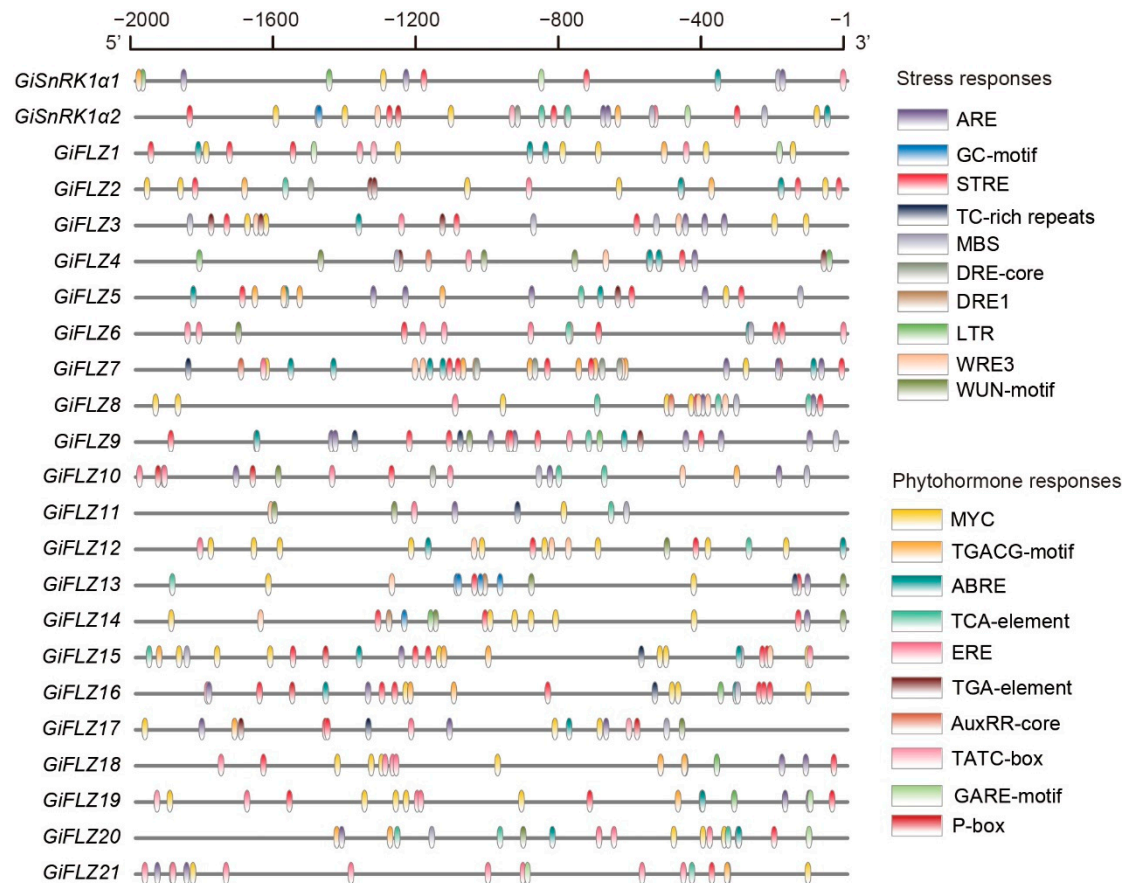


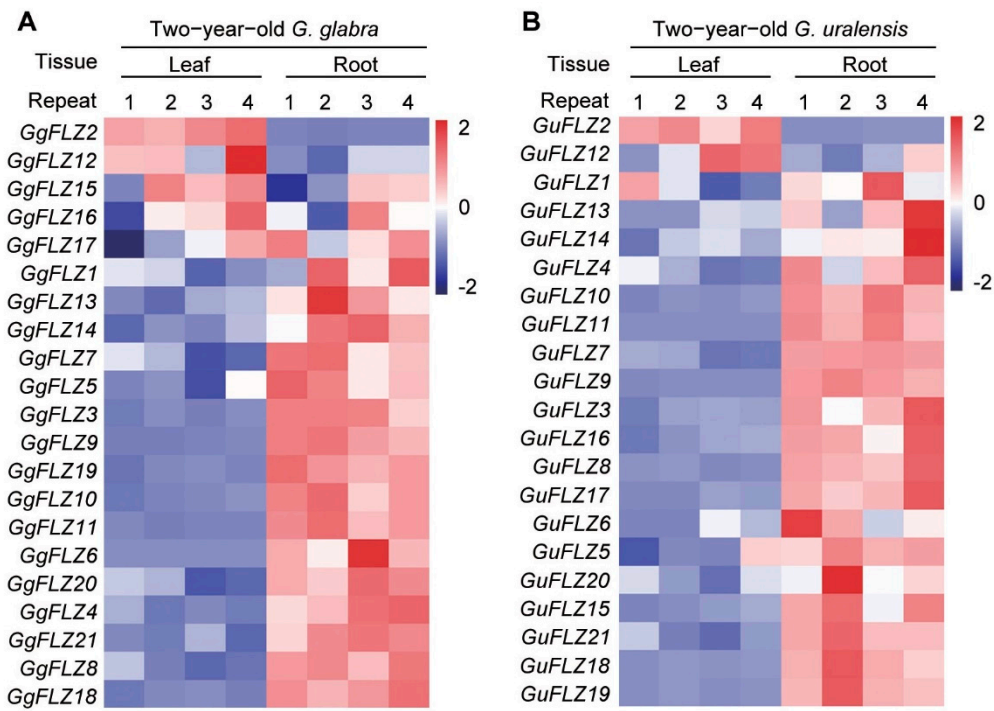
Figure S1. Chromosomal localization of *GiFLZ* genes in *G. inflata*.



**Figure S2. Exon and intron structure of *GiSnRK1α* and *GiFLZ* genes.**



**Figure S3. An overview of the distribution of cis-elements in *GiSnRK1α* and *GiFLZ* gene promoters.** The promoter sequence (–2,000 bp) of the indicated genes was inferred on PlantCARE.



**Figure S4. Expression pattern of FLZ genes in roots and leaves of 2-year-old *G. glabra* (A) and *G. uralensis* (B) plants.** These expression data are normalized of FPKM and shown from low (blue) to high (red) for each gene.

**Table S1.** Primers used in this study.

Primer name	Sequence (5' to 3')	Usage
GiSnRK1 $\alpha$ 1-Y2H-F	CAGTGAATTCCACCCGATGGATGAATCAACTGGCCA	Y2H
GiSnRK1 $\alpha$ 1-Y2H-R	TATCGATGCCCCACCCCTAGAGAACACGAAGCTGC	
GiFLZ2-Y2H-F	CAGTGAATTCCACCCG ATGCTACCAAGCTTCATGAG	
GiFLZ2-Y2H-R	TATCGATGCCCCACCC TTATATCCGGTTGATAATTT	
GiFLZ3-Y2H-F	CAGTGAATTCCACCCG ATGCTGAGGAAGAGGAGCAG	
GiFLZ3-Y2H-R	TATCGATGCCCCACCC CTATGTGTCTGTAGGAATGC	
GiFLZ4-Y2H-F	CAGTGAATTCCACCCG ATGGCTGGGTCTACCAAAAAG	
GiFLZ4-Y2H-R	TATCGATGCCCCACCC CTAAGCAGCAGCAACTGTTC	
GiFLZ9-Y2H-F	CAGTGAATTCCACCCG ATGGCAGAAGATTCTGGTTG	
GiFLZ9-Y2H-R	TATCGATGCCCCACCC TCATATTGGTCAATCCCAC	
GiFLZ10-Y2H-F	CAGTGAATTCCACCCG ATGGGTGATAATAGCTCCCA	
GiFLZ10-Y2H-R	TATCGATGCCCCACCC TTAAACTTCTGCTCCATCTA	
GiFLZ14-Y2H-F	CAGTGAATTCCACCCG ATGATGTTGGGAAAGAGATC	
GiFLZ14-Y2H-R	TATCGATGCCCCACCC CTAAAGGGCAACAATCCCAG	
GiFLZ15/16-Y2H-F	CAGTGAATTCCACCCG ATGGTGGGTCTGAGTGTAGT	
GiFLZ15/16-Y2H-R	TATCGATGCCCCACCC TCAGTAAGCAAAAAGCACCGG	
GiFLZ17-Y2H-F	CAGTGAATTCCACCCG ATGCTGAAGAAGAAGGAACA	
GiFLZ17-Y2H-R	TATCGATGCCCCACCC TTATTGGACACAAGCAGAC	
GiFLZ18-Y2H-F	CAGTGAATTCCACCCG ATGTTGCTGGGGAAGAGACC	
GiFLZ18-Y2H-R	TATCGATGCCCCACCC CTACAAGGCAATAGCCACGG	
GiFLZ21-Y2H-F	CAGTGAATTCCACCCG ATGTTGCTTGGGAAGCGTCC	
GiFLZ21-Y2H-R	TATCGATGCCCCACCC TCAAGTACAAGCTGCAGCGG	
GiSnRK1 $\alpha$ 1-GFP-F	GATTAACAGGGATCCCCCATGGATGAATCAACTGGCCAT	GFP fusion
GiSnRK1 $\alpha$ 1-GFP-R	GAGACTAGTGGTACCCCCGAGAACACGAAGCTGCGAAAG	
GiFLZ2-GFP-F	CTGATTAACAGGGATCCCCC ATGCTACCAAGCTTCATGAG	
GiFLZ2-GFP-R	TCGAGACTAGTGGTACCCCC TATCCGGTTGATAATTTGCG	
GiFLZ3-GFP-F	CTGATTAACAGGGATCCCCC ATGCTGAGGAAGAGGAGCAG	
GiFLZ3-GFP-R	TCGAGACTAGTGGTACCCCC TGTGTCTGTAGGAATGCCTG	
GiFLZ4-GFP-F	CTGATTAACAGGGATCCCCC ATGGCTGGGTCTACCAAAAAG	
GiFLZ4-GFP-R	TCGAGACTAGTGGTACCCCC AGCAGCAGCAACTGTTCTCTG	
GiFLZ9-GFP-F	CTGATTAACAGGGATCCCCC ATGGCAGAAGATTCTGGTTG	
GiFLZ9-GFP-R	TCGAGACTAGTGGTACCCCC TATTGGTCAATCCCACCCT	
GiFLZ10-GFP-F	CTGATTAACAGGGATCCCCC ATGGGTGATAATAGCTCCCA	
GiFLZ10-GFP-R	TCGAGACTAGTGGTACCCCC AACTTCTGCTCCATCTAACA	
GiFLZ14-GFP-F	CTGATTAACAGGGATCCCCC ATGATGTTGGGAAAGAGATC	
GiFLZ14-GFP-R	TCGAGACTAGTGGTACCCCC AAGGGCAACAATCCCAGTTG	
GiFLZ15/16-GFP-F	CTGATTAACAGGGATCCCCC ATGGTGGGTCTGAGTGTAGT	
GiFLZ15/16-GFP-R	TCGAGACTAGTGGTACCCCC GTAAGCAAAAAGCACCGGTC	
GiFLZ17-GFP-F	CTGATTAACAGGGATCCCCC ATGCTGAAGAAGAAGGAACA	
GiFLZ17-GFP-R	TCGAGACTAGTGGTACCCCC TTTGGACACAAGCAGACCCA	
GiFLZ18-GFP-F	CTGATTAACAGGGATCCCCC ATGTTGCTGGGGAAGAGACC	
GiFLZ18-GFP-R	TCGAGACTAGTGGTACCCCC CAAGGCAATAGCCACGGTGG	

GiFLZ21-GFP-F	CTGATTAACAGGGATCCCCC ATGTTGCTTGGGAAGCGTCC	
GiFLZ21-GFP-R	TCGAGACTAGTGGTACCCCC AGTACAAGCTGCAGCGGTTT	
GiSnRK1 $\alpha$ 1-qPCR-F	TGGGAACAAGGCAACAGTTC	qRT-PCR
GiSnRK1 $\alpha$ 1-qPCR-R	GAATTTCCAAGGTAATGATTAT	
GiFLZ2-qPCR-F	GAACAGACAAATAATTATGG	
GiFLZ2-qPCR-R	AAGTCTCTGCATTCTGAAGGT	
GiFLZ3-qPCR-F	CTCTGATGCTAATTTGGATA	
GiFLZ3-qPCR-R	TAGCATCTAGTGGAGAAGTG	
GiFLZ4-qPCR-F	CCGGGGTATTCTGGTCATAA	
GiFLZ4-qPCR-R	AACCGATGATGGGTTCTCTGA	
GiFLZ9-qPCR-F	ATGGCAGAAGATTCTGGTTG	
GiFLZ9-qPCR-R	GCTCATCATGGTTTCAGAAC	
GiFLZ10-qPCR-F	CAGAATTACGCTAGAAGTAC	
GiFLZ10-qPCR-R	ATAGCTTCGGTCCCTAATGG	
GiFLZ13/14-qPCR-F	AGACCATCACTAAGGTTTAC	
GiFLZ13/14-qPCR-R	TGTGTTTCTTCTGATAACAC	
GiFLZ17-qPCR-F	CTGATACATCAAGTCTAAGA	
GiFLZ17-qPCR-R	GTCTGCAATCAAGAGGAGAT	
GiFLZ18/19-qPCR-F	CCACGGAGGTTGTTGACAAC	
GiFLZ18/19-qPCR-R	CGGTGCTGCTGCTGTTAATA	
GiFLZ21-qPCR-F	CACGCAGATGCAGCAGACAA	
GiFLZ21-qPCR-R	GCATGATGTGGATCTTTACT	
GiCS-qPCR-F	GCTCAGCCGTTGACCCAG	
GiCS-qPCR-R	CACCACCAGGAAAAGCACC	

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