

Table S1.Original habitats of the three Kentucky bluegrass plants used in this work

Code	Material name	Collection site	Altitude (m)	Geographical coordinate	Habitat
Sunan	Poa pratensis (Sunan)	Sunan, Gansu	2954	38°49 N 99°37 E	Alpine meadow
Qingshui	Poa pratensis (Qingshui)	Qingshui, Gansu	1503	34°32 N 105°45 E	Ravine
Lanzhou	Poa pratensis (Lanzhou)	Lanzhou, Gansu	1966	36°03 N 103°40 E	Ravine

Table S2. Sequence of gene primers used in qRT-PCR

Gene Name	Gene Describe	Forward primer sequence(5'→ 3')	Reverse primer sequence (5'→ 3')
ARF1	Auxin response factor1	ACCAGACTGAGGAACCCACT	CTGCTCTGGCACTTGCATTG
ARF12	Auxin response factor12	CTTCCACAAACAGCCGCTTC	ATCCGCGTGTGAAAAACAGC
ARF14	Auxin response factor14	GAAGCCCCGATTGCCACATA	TCCAAAGGCGGGAATCTGTC
CKX2	Cytokinin oxidase2	CCGCTCCATCCGCTGATAAT	CCTCGGTGTCGTCTCGAATC
CKX3	Cytokinin oxidase3	TTGGCTCACCATCCAATCC	TATACCTTGACCTGGCCCGA
CKX4	Cytokinin oxidase4	TCGTAGTCCATGGGGTGAAA	ACGCAGCTTTGTGCAGATTC
D14.1-like	Dwarf14.1-like	CTTCGATCGACGCACACGC	CCATCTTCCTCTCGCCGGA
D14-like	Dwarf14-like	TGTGCCAGAGCGTGTCAAG	AGGTGCGCCTTGAGGTAGG
D14	Dwarf14	CCAAGGATGGGCCAAGAGTT	ATGGCCAGGAACTACGCTC

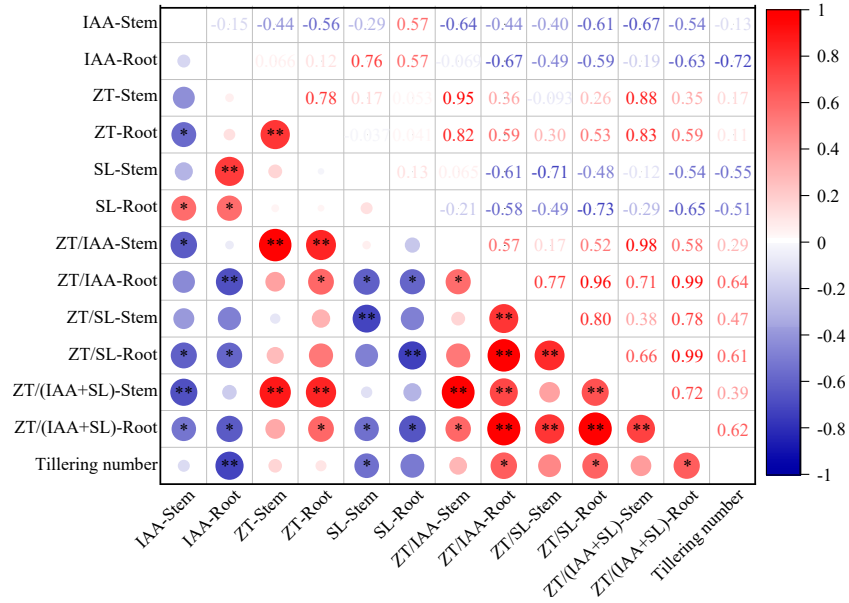


Figure S1 Correlation between ZT, IAA, SL, ZT/IAA, ZT/SL, ZT/(IAA+SL) content and per plant tiller number in stems and roots during bluegrass tiller growth period. Red indicates positive correlation, blue indicates negative correlation, and the darker the color, the stronger the correlation “*” and “**” indicate significant correlations at 0.05 and 0.01 confidence levels (two-tailed), respectively.

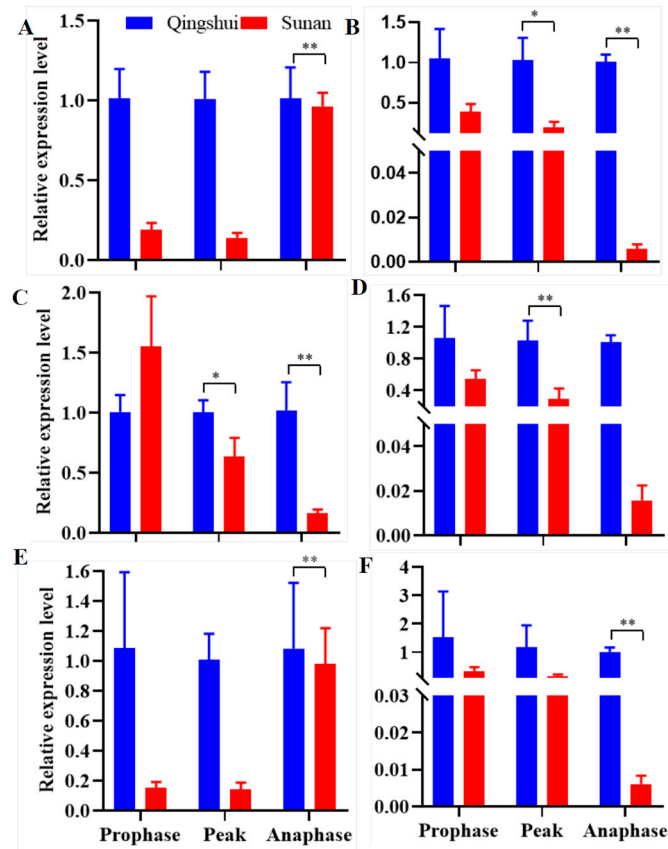


Figure S2 Analysis of the expression patterns of ARF1, ARF14, and ARF12 genes in the stems (A, C, E) and roots (B, D, F) of Kentucky bluegrass at the same period.

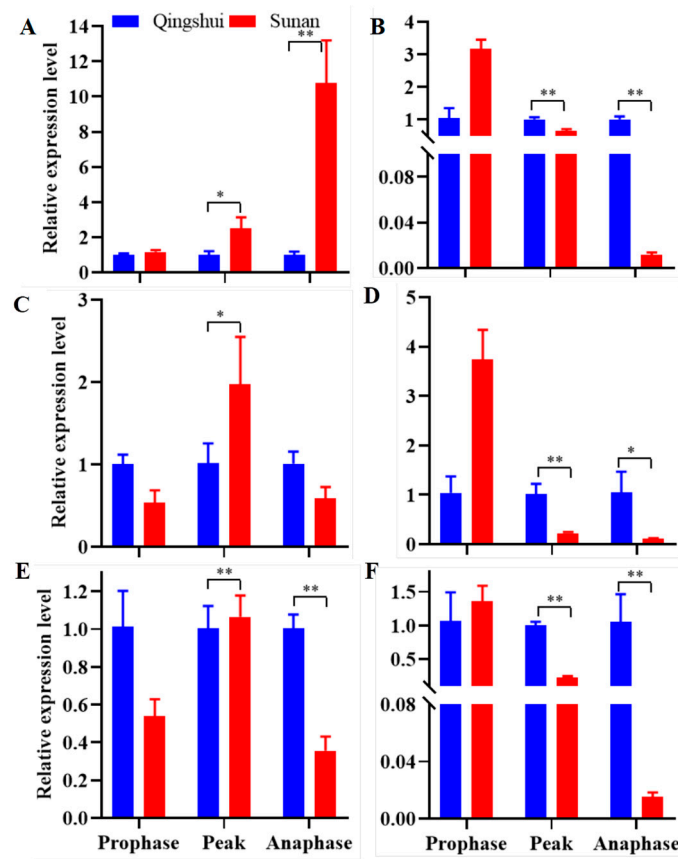


Figure S3 Analysis of the expression patterns of CKX3、CKX2 and CKX4 genes in the stems (A, C, E) and roots (B, D, F) of Kentucky bluegrass at the same period.

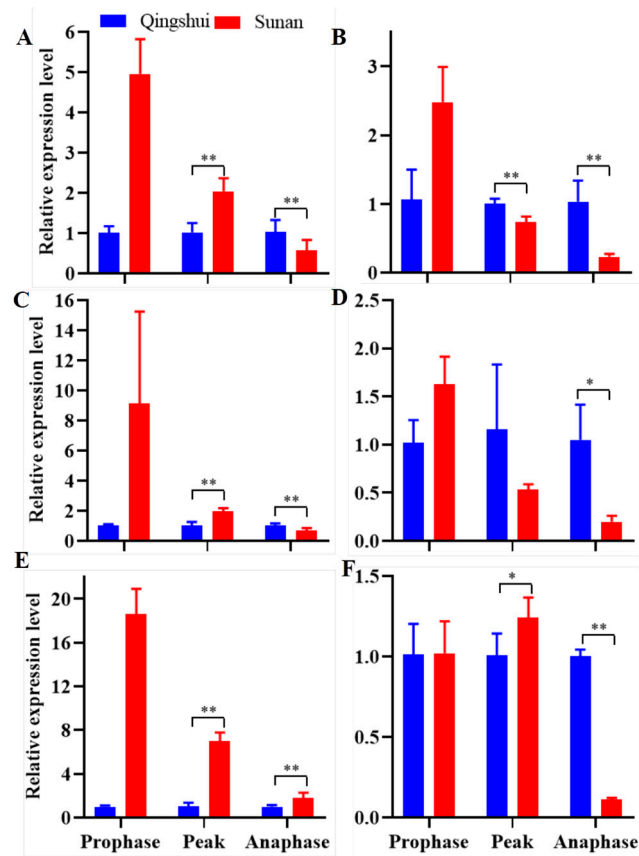


Figure S4 Analysis of the expression patterns of D14-like, D14.1-like and D14 genes in the stems (A, C, E) and roots (B, D, F) of Kentucky bluegrass at the same period.