

Supplementary Information

Title:

Comparative chloroplast genome analysis of four *Polygonatum* species insights into DNA barcoding, evolution, and phylogeny.

Table S1. The SSR types of four *Polygonatum* species

SSR type	Repeat unit	Amount			
		<i>P.zanlanscianense</i>	<i>P. filipes</i>	<i>P.cyrtonema</i>	<i>P.odoratum</i>
Mono	A/T	36	35	31	33
	C/G	0	1	0	1
Di	AT/TA	9	9	8	9
	GA/TC	2	2	2	2
Tri	CAG/TTA	2	2	2	2
	ATA/ATT	1	2	2	2
	CCT/TAT	0	0	0	1
	ATTG/ AATG	2	2	2	2
Tetra	GAAT/TTAA	2	2	2	2
	AATA/TTGA	2	3	2	2
	CATT/TTTA	1	1	1	1
	ATAAT/ CGAAA	2	1	1	1
Penta	TTTCG/AATTA	1	1	1	1
	ATAGTA	0	0	0	1

Table S2. The information of sample collection and DNA sequencing of four *Polygonatum* species.

Sample	Location	Latitude (N)	Longitude (E)	Raw reads	Raw Bases	Genbank accession number
<i>P.filipes</i>	Da zhe zhen, Sui chang County, Zhejiang, China	28 52'	119 11'	22,496,704	3,329,565,273	MZ571521
<i>P.cyrtonema</i>	Da zhe zhen, Sui chang County, Zhejiang, China	28 52'	119 11'	15,915,998	3,682,353,693	MZ579646
<i>P.zanlanscianense</i>	Da zhe zhen, Sui chang County, Zhejiang, China	28 52'	119 11'	32,147,396	4,600,981,992	MZ568930
<i>P.odoratum</i>	Bozhou, Anhui, China	33 86'	115 78'	26,691,780	3,981,228,737	MZ666387

Figure S1. The original full-length agarose gel of five pairs of primers.



The original full-length agarose gel of five pairs of primers and from left to right were *trnS*, *trnT-psbD*, *psaJ-rpl33*, *rpl32-trnL* and *ndhG-ndhI*, respectively. *P. cyrtonema* plant was used for PCR amplification in this figure.