

Chloroplast genome evolution and species identification of *Styrax*  
(Styracaceae)

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Table S1. Taxa included in this study with locality, voucher, and GenBank accession numbers. The bold font samples were sequenced in this study.

Table S2. Summary of the sequencing data for 17 *Styrax* samples.

Table S3. The information of small inversions.

Table S4. The primers used for amplification the specific *Styrax* DNA barcodes.

Figure S1. Visualization of genome alignment of the *Styrax* chloroplast genomes. The x-axis showed the coordinate between the chloroplast genome.

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Taxon	Locality	Preservation	Accession number of plastome	Voucher
<i>Styrax agrestis</i> 01	Ledong, Hainan, China	Silicagel	MZ285735	SY850806
<i>Styrax agrestis</i> 02	Ledong, Hainan, China	N/A	MT644192	NF2020090
<i>Styrax americanus</i>	Kankakee County, Illinois, USA	Herbarium	MZ285749	PE01618866
<i>Styrax argenteus</i>	Guanacaste Liberia Area de Conversacion Guanacaste, Costa Rica	Herbarium	MZ285745	PE02110301
<i>Styrax calvescens</i>	Huangshan, Anhui, China	N/A	MN560141	NF2019468
<i>Styrax casearifolius</i>	Jianghong, Yunnan, China	Silicagel	MZ285737	SY850801
<i>Styrax chinensis</i>	Nanning, Guangxi, China	N/A	MT648752	NF2020091
<i>Styrax confusus</i>	Huangshan, in Anhui, China	N/A	MN560142	NF2019903
<i>Styrax dasyanthus</i>	Luhe District, Nanjing, China	N/A	MN329776	NF2018097
<i>Styrax duclouxii</i>	Nanjing, Jiangsu, China	N/A	MN882545	NF2019128
<i>Styrax faberi</i>	Qiyun, Anhui, China	N/A	MN335255	NF2018669
<i>Styrax formosanus</i>	Nantou, Taiwan, China	Herbarium	MZ285742	PE01883300
<i>Styrax grandiflorus</i> 01	N/A	N/A	KX111381	F365
<i>Styrax grandiflorus</i> 02	N/A	N/A	MF179493	14CS8610
<i>Styrax hemsleyanus</i>	Lushi, Henan, China	Silicagel	MZ285748	SY850797
<i>Styrax huanus</i>	Nanchuan, Sichuan, China	Silicagel	MZ285741	SY850798
<i>Styrax japonicus</i>	Yuanqu, Shanxi, China	Silicagel	MZ285743	SY850800
<i>Styrax macrocarpus</i>	Yizhang, Hunan, China	N/A	MT435525	DG-2019-002

<i>Styrax obassia</i> 01	Jinzai, Anhui, China	Silicagel	MZ285733	SY850795
<i>Styrax obassia</i> 02	Nanjing, Jiangsu, China	N/A	MN560143	NF2019061
<i>Styrax odoratissimus</i>	Huangshan, Anhui, China	N/A	MN368610	NF2018038
<i>Styrax perkinsiae</i>	Fugong, Yunnan, China	Silicagel	MZ285734	SY850793
<i>Styrax ramirezii</i>	N/A	N/A	MG719843	N/A
<i>Styrax roseus</i>	Leibo, Sichuan, China	Silicagel	MZ285736	SY850792
<i>Styrax rugosus</i>	Jingdong, Yuannan, China	Silicagel	MZ285746	SY850791
<i>Styrax serrulatus</i>	Kachin State Putao District, Myanmar	Herbarium	MZ285738	PE02037081
<i>Styrax suberifolius</i> 01	Jianggangshan, Jiangxi, China	Silicagel	MZ285747	SY850789
<i>Styrax suberifolius</i> 02	N/A	N/A	MG719828	N/A
<i>Styrax tonkinensis</i> 01	Luhe, Nanjing, Jiangsu	N/A	MT075718	NF2019868
<i>Styrax tonkinensis</i> 02	Nanyue, Hunan, China	Silicagel	MZ285740	SY850788
<i>Styrax tonkinensis</i> 03	Suining, Hunan, China	Silicagel	MZ285739	SY850799
<i>Styrax tonkinensis</i> 04	Xinning, Hunan, China	Silicagel	MZ285744	SY850803
<i>Styrax wuyuanensis</i>	Wuyuan, Jiangxi, China	N/A	MW166213	JXAU 2020026
<i>Styrax zhejiangensis</i>	N/A	N/A	MG702338	N/A

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Table S2. Summary of the sequencing data for 17 *Styrax* samples.

Species	Clean data no.	Mapped reads no.	Mapped to reference genome (%)	Chloroplast genome coverage (X)
<i>Styrax agrestis</i> 01	25487458	316904	1.24	301.10597
<i>Styrax americanus</i>	12864020	67059	0.52	63.733795
<i>Styrax argenteus</i>	24107816	626810	2.60	594.03886
<i>Styrax casearifolius</i>	32517270	258037	0.79	245.07731
<i>Styrax formosanus</i>	20748168	504977	2.43	479.24778
<i>Styrax hemsleyanus</i>	23759700	85455	0.36	81.141003
<i>Styrax huanus</i>	19975582	460290	2.30	437.21385
<i>Styrax japonicus</i>	11971102	718402	6.00	683.58041
<i>Styrax obassia</i> 01	23055492	984696	4.27	935.3767
<i>Styrax perkinsiae</i>	24176372	450934	1.87	428.61732
<i>Styrax roseus</i>	23868728	1702907	7.13	1617.6463
<i>Styrax rugosus</i>	40957798	204338	0.50	193.68653
<i>Styrax serrulatus</i>	32674632	91391	0.28	86.818556
<i>Styrax suberifolius</i> 01	22828072	130990	0.57	123.3172
<i>Styrax tonkinensis</i> 02	27165452	100781	0.37	95.643055
<i>Styrax tonkinensis</i> 03	31683486	680905	2.15	646.55975
<i>Styrax tonkinensis</i> 04	32586122	92366	0.28	87.493764

Table S3. The information of small inversions.

	trnS <sup>GCU</sup> -	atpF -		trnC <sup>GCA</sup> -	petN-	trnS <sup>UGA</sup> -	trnS <sup>GGA</sup>	ycf3-	trnT <sup>UGU</sup> -	trnF <sup>GAA</sup> -	trnF <sup>GAA</sup> -	trnF <sup>GAA</sup> -	petA-	psaJ-		trnR <sup>ACG</sup> -	
	trnG <sup>GCC</sup>	atpH	rpoC1	petN	psbM	psbZ	01	trnS <sup>GGA</sup> 02	trnL <sup>UAA</sup>	ndhJ 01	ndhJ 02	ndhJ 03	psbJ	rpl33	clpP	trnI <sup>GAU</sup>	trnN <sup>GUU</sup>
<i>S. agrestis</i> 01	yes																
<i>S. agrestis</i> 02														yes			
<i>S. americanus</i>								yes				yes		yes			
<i>S. argenteus</i>												yes	yes	yes			
<i>S. calvescens</i>		yes						yes						yes			
<i>S. casearifolius</i>								yes						yes			
<i>S. chinensis</i>			yes			yes		yes				yes	yes	yes			
<i>S. confusus</i>		yes						yes						yes			
<i>S. dasyanthus</i>		yes												yes		yes	
<i>S. duclouxii</i>				yes				yes						yes			
<i>S. faberi</i>														yes			
<i>S. formosanus</i>		yes						yes						yes			
<i>S. grandiflorus</i> 01		yes												yes			
<i>S. grandiflorus</i> 02		yes												yes			
<i>S. hemsleyanus</i>														yes			
<i>S. huanus</i>														yes		yes	
<i>S. japonicus</i>		yes						yes						yes			
<i>S. macrocarpus</i>								yes						yes			
<i>S. obassia</i> 01					yes			yes		yes		yes		yes			

S. obassia 02		yes		yes		yes		yes		yes
S. odoratissimus									yes	yes yes
S. perkinsiae			yes	yes				yes	yes	
S. ramirezii	yes			yes	yes			yes	yes	yes
S. roseus									yes	
S. rugosus				yes				yes	yes	
S. serrulatus				yes					yes	
S. suberifolius 01	yes		yes	yes				yes	yes	yes
S. suberifolius 02	yes		yes	yes				yes	yes	yes
S. tonkinensis 02				yes				yes	yes	
S. tonkinensis 03		yes		yes				yes	yes	
S. tonkinensis 04		yes		yes				yes	yes	
S. tonkinensis 01	yes			yes				yes	yes	
S. wuyuanensis	yes			yes		yes			yes	
S. zhejiangensis				yes					yes	

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Table S4. The primers used for amplification the specific *Styrax* DNA barcodes.

Markers	Forward		Reverse primer	Primer sequence 5' to 3'
	primer	Primer sequence 5' to 3'		
<i>trnT-trnL</i>	trnT-trnL-f	TAGGAATTTAATAAACTATT	trnT-trnL-r	GCTTTAAAATTAGGATCTCATTG
<i>ycf1b</i>	ycf1b-f	TCTTTTACTATCCAGTTTCGAA	ycf1b-r	TGGTTTGAAAAACCTCTTGTAAC



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