

Table S5. Samples and data used in this study.

Family	Species	Abbr.	Sources	DNA-Seq		RNA-Seq		Accession number of chloroplast genomes
				SRA number	Sources	SRA number	Sources	
Cycadaceae	<i>Cycas revoluta</i>	<i>Cycas</i>	IBCAS	SRR12710844	Kan et al. [84]	SRX3059933	Ran et al. [27]	OM735459
Zamiaceae	<i>Zamia furfuracea</i>	<i>Zamia</i>	IBCAS	SRR12710843	Kan et al. [84]	SRX3059934	Ran et al. [27]	OM735446
Ginkgoaceae	<i>Ginkgo biloba</i>	<i>Ginkgo</i>	IBCAS	SRR12710832	Kan et al. [84]	SRX3059931	Ran et al. [27]	OM735452
Pinaceae	<i>Cedrus deodara</i>	<i>Cedrus</i>	IBCAS	SRR12710827	Kan et al. [84]	SRX3744356	Ran et al. [34]	OM735453
	<i>Abies firma</i>	<i>Abies</i>	IBCAS	SRR12710828	Kan et al. [84]	SRX3055044	Ran et al. [27]	OM735442
	<i>Picea smithiana</i>	<i>Picea</i>	IBCAS	SRR12710829	Kan et al. [84]	SRX3052146	Ran et al. [27]	OM735455
	<i>Pinus armandii</i>	<i>Pinus</i>	IBCAS	SRR12710830	Kan et al. [84]	SRX3057314	Ran et al. [27]	OM735456
Ephedraceae	<i>Ephedra przewalskii</i>	<i>Ephedra</i>	IBCAS	SRR12710836	Kan et al. [84]	SRR12710834	Kan et al. [84]	OM735444
Welwitschiaceae	<i>Welwitschia mirabilis</i>	<i>Welwitschia</i>	Buy from https://sheffields.com/	SRR12710831	Kan et al. [84]	SRX3059925	Ran et al. [27]	OM735458
Gnetaceae	<i>Gnetum montanum</i>	<i>Gnetum</i>	Hainan, China	SRR12710833	Kan et al. [84]	SRX3059920	Ran et al. [27]	OM735450
Podocarpaceae	<i>Podocarpus macrophyllus</i>	<i>Podocarpus</i>	IBCAS	SRR12710837	Kan et al. [84]	SRX3058149	Ran et al. [27]	OK094233
Araucariaceae	<i>Araucaria cunninghamii</i>	<i>Araucaria</i>	IBCAS	SRR12710838	Kan et al. [84]	SRX3057826	Ran et al. [27]	OM735457
Sciadopityaceae	<i>Sciadopitys verticillata</i>	<i>Sciadopitys</i>	KIBCAS	SRR12710839	Kan et al. [84]	SRX3058164	Ran et al. [27]	OM735447
Cephalotaxaceae	<i>Cephalotaxus sinensis</i>	<i>Cephalotaxus</i>	IBCAS	SRR12710840	Kan et al. [84]	SRX3057874	Ran et al. [27]	OM735448
Taxaceae	<i>Taxus cuspidata</i>	<i>Taxus</i>	IBCAS	SRR10305026	Kan et al. [85]	SRR10305025	Kan et al. [85]	OM735454
Cupressaceae	<i>Cunninghamia lanceolata</i>	<i>Cunninghamia</i>	KIBCAS	SRR12710824	Kan et al. [84]	SRX3058052	Ran et al. [27]	OM735443
	<i>Taiwania cryptomerioides</i>	<i>Taiwania</i>	KIBCAS	SRR12710842	Kan et al. [84]	SRR12710841	Kan et al. [84]	OM735445
	<i>Metasequoia glyptostroboides</i>	<i>Metasequoia</i>	IBCAS	SRR12710825	Kan et al. [84]	SRX3058056	Ran et al. [27]	OM735451
	<i>Platycladus orientalis</i>	<i>Platycladus</i>	IBCAS	SRR12710826	Kan et al. [84]	SRX3058062	Ran et al. [27]	OM735449

IBCAS: Institute of Botany, Chinese Academy of Sciences, Beijing, China; KIBCAS: Kunming Institute of Botany, Chinese Academy of Sciences, Yunnan, China.