

Table S1 Sampled *Cymbidium* species and their voucher information used in this study. Voucher samples were deposited in the Zhejiang Provincial Key Laboratory for Genetic Improvement and Quality Control of Medicinal Plants, Hangzhou Normal University, China.

Subgenus	Section	Species Name	Voucher No.	Longitude (E)	Latitude (N)	Collection site
<i>Jensoa</i>	<i>Jensoa</i>	<i>C. goeringii</i> Rchb.f.	C-HZ001	120° 15'	30° 28'	Hangzhou, Zhejiang, China
		<i>C. goeringii</i> Rchb.f.	C-HZ002	120° 15'	30° 28'	Hangzhou, Zhejiang, China
		<i>C. goeringii</i> Rchb.f.	C-HZ003	113° 27'	23° 13'	Guangzhou, Guangdong, China
		<i>C. goeringii</i> Rchb.f.	C-HZ004	113° 27'	23° 13'	Guangzhou, Guangdong, China
		<i>C. goeringii</i> var. <i>serratum</i> (Schltr.) Y.S.Wu & S.C.Chen	C-HZ005	120° 15'	30° 28'	Hangzhou, Zhejiang, China
		<i>C. goeringii</i> var. <i>longibracteatum</i> Y.S.Wu et S.C.Chen	C-HZ006	120° 15'	30° 28'	Hangzhou, Zhejiang, China
		<i>C. faberi</i> Rolfe	C-HZ007	120° 15'	30° 28'	Hangzhou, Zhejiang, China
		<i>C. faberi</i> Rolfe	C-HZ008	113° 27'	23° 13'	Guangzhou, Guangdong, China
		<i>C. faberi</i> Rolfe	C-HZ009	115° 85'	28° 68'	Nanchang, Jiangxi, China
		<i>C. faberi</i> Rolfe	C-HZ010	113° 62'	34° 75'	Zhengzhou, Henan, China
		<i>C. kanran</i> Makino	C-HZ011	120° 15'	30° 28'	Hangzhou, Zhejiang, China
		<i>C. kanran</i> Makino	C-HZ012	110° 83'	24° 83'	Gongcheng, Guangxi, China
		<i>C. kanran</i> Makino	C-HZ013	119° 92'	28° 45'	Lishui, Zhejiang, China
		<i>C. kanran</i> Makino	C-HZ014	119° 3'	26° 08'	Fuzhou, Fujian, China
		<i>C. goeringii</i> var. <i>tortisepalum</i> (Fukuyama) Y.S.Wu et S.C.Chen	C-HZ015	120° 15'	30° 28'	Hangzhou, Zhejiang, China
		<i>C. cyperifolium</i> Wall.ex Lindl	C-HZ016	120° 15'	30° 28'	Hangzhou, Zhejiang, China
		<i>C. quibeiense</i> K.M.Feng et H.Li	C-HZ017	120° 15'	30° 28'	Hangzhou, Zhejiang, China
		<i>C. ensifolium</i> (L.) Sw.	C-HZ018	117° 25'	31° 83'	Hefei, Anhui, China
		<i>C. ensifolium</i> (L.) Sw.	C-HZ019	120° 15'	30° 28'	Hangzhou, Zhejiang, China
		<i>C. ensifolium</i> (L.) Sw.	C-HZ020	119° 3'	26° 08'	Fuzhou, Fujian, China
		<i>C. ensifolium</i> (L.) Sw.	C-HZ021	106° 63'	26° 65'	Guiyan, Guizhou, China
		<i>C. sinense</i> (Andr.) Willd.	C-HZ022	115° 85'	28° 68'	Nanchang, Jiangxi, China
		<i>C. sinense</i> (Andr.) Willd.	C-HZ023	102° 72'	25° 05'	Kunming, Yunnan, China
		<i>C. sinense</i> (Andr.) Willd.	C-HZ024	113° 27'	23° 13'	Guangzhou, Guangdong
		<i>C. sinense</i> (Andr.) Willd.	C-HZ025	119° 3'	26° 08'	Fuzhou, Fujian, China
<i>Geocymbidium</i>	<i>Geocymbidium</i>	<i>C. lancifolium</i> Hook.	C-HZ026	113° 27'	23° 13'	Guangzhou, Guangdong, China
		<i>C. lancifolium</i> Hook.	C-HZ027	120° 15'	30° 28'	Hangzhou, Zhejiang, China
<i>Cyperorchis</i>	<i>Iridorchis</i>	<i>C. iridioides</i> D.Don	C-HZ028	102° 72'	25° 05'	Kunming, Yunnan, China
		<i>C. hookerianum</i> Rchb.f.	C-HZ029	108° 37'	22° 82'	Nanning, Guangxi, China
		<i>C. tracyanum</i> Rolfe	C-HZ030	120° 15'	30° 28'	Hangzhou, Zhejiang, China
		<i>C. lowianum</i> Rchb.f.	C-HZ031	120° 15'	30° 28'	Hangzhou, Zhejiang, China
		<i>C. wenshanense</i> Y.S.Wu et F.Y.Liu	C-HZ032	102° 72'	25° 05'	Kunming, Yunnan, China
	<i>Eburnea</i>	<i>C. maguanense</i> F.Y.Liu	C-HZ033	120° 15'	30° 28'	Hangzhou, Zhejiang, China
<i>Cymbidium</i>	<i>Floribunda</i>	<i>C. floribundum</i> Lindl.	C-HZ034	120° 15'	30° 28'	Hangzhou, Zhejiang, China