

Table S1. Voucher details and GenBank accession numbers of taxa used in this study

Taxa	GenBank accession number	Voucher number	Locality
<i>Angelica laxifoliata</i> Diels	MH180258		
<i>Bupleurum boissieuanum</i> H.Wolff	MF663725		
<i>Bupleurum chinense</i> Franch.	MN893666		
<i>Carum carvi</i> L.	KR048286		
<i>Chamaesium delavayi</i> (Franch.) R.H.Shan & S.L.Liou	MN119367		
<i>Chamaesium paradoxum</i> H.Wolff	MK780227		
<i>Chuanminshen violaceum</i> M.L.Sheh & R.H.Shan	KU921430		
<i>Cicuta virosa</i> L.	KX352466		
<i>Crithmum maritimum</i> L.	HM596072		
<i>Cryptotaenia japonica</i> Hassk.	MK629764		
<i>Hansenia forbesii</i> (H.Boissieu) Pimenov & Kljuykov	MT834935*	J18081401(SZ)	Yuzhong, Gansu, China
<i>Hansenia forrestii</i> (H.Wolff) Pimenov & Kljuykov	MT843761*	J18102301(SZ)	Yajiang, Sichuan, China

<i>Hansenia oviformis</i> (R.H.Shan) Pimenov & Kljuykov	MT843762*	J19102201(SZ)	Shanyang, Shanxi, China
<i>Hansenia weberbaueriana</i> (Fedde ex H.Wolff) Pimenov & Kljuykov	MT843763*	J18081901(SZ)	Qilian, Qinghai, China
<i>Haplosphaera himalayensis</i> Ludlow	MK353674*	G18100802(SZ)	Nyingchi, Tibet, China
<i>Haplosphaera phaea</i> Hand.-Mazz.	MK801097	J18072109(SZ)	Deqin, Yunnan, China
<i>Heracleum candicans</i> Wall. ex DC.	MK522402		
<i>Ligusticum chuanxiong</i> S.H.Qiu, Y.Q.Zeng, K.Y.Pan, Y.C.Tang & J.M.Xu	KX594382		
<i>Ligusticum delavayi</i> Franch.	MT409613		
<i>Pastinaca pimpinellifolia</i> M.Bieb.	KM035850		
<i>Peucedanum japonicum</i> Thunb.	KU866530		
<i>Pleurospermum camtschaticum</i> Hoffm.	KU041142		
<i>Prangos fedtschenkoi</i> (Regel & Schmalh.) Korovin	KY652265		
<i>Pterygoleurum neurophyllum</i> (Maxim.) Kitag.	KT983257		
<i>Seseli montanum</i> L.	KM035851		
<i>Sinodielsia microloba</i> Kljuykov	MT843766*	F18 (SZ)	Nyingchi, Tibet, China

<i>Sinodielsia yunnanensis</i> H.Wolff (EY)	MT843765*	Y6 (SZ)	Eryuan, Yunnan, China
<i>Sinodielsia yunnanensis</i> H.Wolff (HB)	MK993275	K1(SZ)	Shangri-La, Yunnan, China
<i>Sinodielsia yunnanensis</i> H.Wolff (KM)	MT843764*	F10 (SZ)	Kunming,, Yunnan, China
<i>Tongoloa silaifolia</i> H.Wolff	NC_049062		
<i>Torilis scabra</i> DC.	MN105615		
<i>Trachyspermum ammi</i> Sprague	MN746303		

*: Newly generated sequences; otherwise, sequences were obtained from GenBank.

Table S2. The indexes of the codon usage bias in the *Hansenia*, *Haplosphaera* and *Sinodielsia* species.

Index	<i>Hansenia forbesii</i>	<i>Han. forrestii</i>	<i>Han. oviformis</i>	<i>Han. weberbaueraiana</i>	<i>Haplosphaera himalayensis</i>	<i>Hap. phaea</i>	<i>Meeboldia sinodielsia yunnanensis</i> (HB)	<i>MS. yunnanensis</i> (KM)	<i>S. yunnanensis</i> (EY)	<i>S. Peucedanum delavayi</i>	<i>Sinodielsia microloba</i>
Codon No.	21_228	21_213	21_230	21_254	21_229	21_207	21_147	21_134	21_146	21_162	
Amino acid No.	21_175	21_160	21_177	21_201	21_176	21_154	21_094	21_081	21_093	21_109	
CAI	0.167	0.167	0.167	0.167	0.167	0.167	0.166	0.166	0.166	0.166	
CBI	-0.098	-0.098	-0.099	-0.099	-0.1	-0.098	-0.101	-0.101	-0.101	-0.101	-0.102
ENC	49.82	49.8	49.83	49.91	49.79	49.77	49.65	49.68	49.67	49.63	
Fop	0.355	0.355	0.355	0.355	0.354	0.355	0.353	0.354	0.353	0.353	
GC3s	0.271	0.27	0.271	0.271	0.269	0.27	0.266	0.267	0.267	0.266	

CAI: Codon adaptation Index; CBI: Codon bias index; ENC: Effective number of codons; Fop: Frequency of optimal codons; GC3s: GC of silent 3rd codon position

