

附表 1 材料信息

Appendix table 1 Information of materials

Species	Vouchers	Locality	NCBI accession	Margin of scales (entire 0, non-entire 1)	Mesh type (non-transparent 0, transparent 1)
<i>Cryptogramma brunoniana</i>	Y.H. Yan et al., 12764	Chayu, Tibet	KC700083.1	0	0
<i>Coniogramme caudiformis</i>	H.J. Wei, 345	Shimen, Hunan		0	0
<i>Coniogramme robusta</i>	H.J. Wei, 492	Sangzhi, Hunan		1	0
<i>Coniogramme emeiensis</i>	Channel Plant Collection team, 09199	Tongdao, Hunan		0	0
<i>Coniogramme japonica</i>	Y.H. Yan et al., 12821	Chayu, Tibet	KC700111.1	0	0
<i>Coniogramme jinggangshanensis</i>	Channel Plant Collection team, 09098	Tongdao, Hunan		1	0
<i>Coniogramme intermedia</i>	08 Wild Practice Team, 0860001	Liuyang, Hunan	KC700113.1	0	0
<i>Coniogramme wilsonii</i>	H.J. Wei, 436	Sangzhi, Hunan	KC700115.1	0	0
<i>Coniogramme procera</i>	Y.H. Yan et al., 13092	Motuo, Tibet		0	0
<i>Cystopteris fragilis</i>	Y.F. Gu	Chenshan Botanical Gardern, Shanghai	U05601.1	1	0
<i>Ceratopteris thalictroides</i>	Y.F. Gu	Chenshan Botanical Gardern, Shanghai	AB574805.1	0	0
<i>Pteris dispar</i>	H.J. Wei et al., BJZ005	Ziyuan, Guangxi	AB574827.1	0	0
<i>Pteris decrescens</i>	Y.H. Yan et al., 12209	Hekou, Yunnan	KM008165.1	1	0
<i>Pteris cretica</i> var. <i>nervosa</i>	Y.H. Yan et al., 11394	Changjiang, Hainan	KF289713.1	0	0
<i>Pteris amoena</i>	H. Shang, SG279	Yingtian, Jiangxi	KM008148.1	0	0
<i>Pteris gallinopes</i>	Y.H. Yan et al., 12867	Chayu, Tibet	KF289704.1	0	0
<i>Pteris plumbea</i>	H.J. Wei, 197	Shimen, Hunan		0	0
<i>Pteris insignis</i>	H.J. Wei et al., DRS048	Beiliu, Guangxi	KM008186.1	0	0
<i>Pteris aspericaulis</i> var. <i>tricolor</i>	Y.H. Yan et al., 12013	Kunming, Yunnan	KF289682.1	1	0
<i>Pteris cadieri</i>	X.L. Zhou et al., 5076	Long'an, Guangxi	AB574824.1	0	0
<i>Pteris vittata</i>	Y.H. Yan et al., 12295	Malipo, Yunnan	AB574846.1	0	0
<i>Pteris wallichiana</i>	Y.H. Yan et al., 12376	Malipo, Yunnan	AB574847.1	0	0
<i>Pteris excelsa</i>	Y.F. Gu et al., MS092	Yizhang, Hunan	AB574829.1	0	0

<i>Pteris henryi</i>	H.J. Wei, 619	Sangzhi, Hunan	MF972812.1	0	0
<i>Pteris stenophylla</i>	H.J. Wei, 621	Sangzhi, Hunan		1	0
<i>Pteris deltodon</i>	Y.H. Yan et al., 12239	Xichou, Yunnan	AB574826.1	0	0
<i>Pteris setuloso-costulata</i>	Y.H. Yan et al., 12133	Pingbian, Yunnan	AB574844.1	1	0
<i>Pteris dactylina</i>	Y.H. Yan et al., 12910	Chayu, Tibet	KM008164.1	0	0
<i>Pteris aspericaulis</i>	Y.H. Yan et al., 13135	Motuo, Tibet	MF972805.1	1	0
<i>Onychium siliculosum</i>	Y.H. Yan et al., 13061	Motuo, Tibet	KP903748.1	0	0
<i>Onychium japonicum</i> var. <i>lucidum</i>	H.J. Wei et al., BJZ002	Ziyuan, Guangxi	KP903744.1	0	0
<i>Onychium japonicum</i>	Y.F. Gu et al., MS150	Yizhang, Hunan	KJ416341.1	0	0
<i>Anogramma microphylla</i>	X.L. Zhou et al., 5177	Long'an, Guangxi	KJ416327.1	0	0
<i>Pityrogramme calomelanos</i>	Y.H. Yan et al., 12388	Malipo, Yunnan	AB574822.1	0	0
<i>Taenitis blechnoides</i>	H.J. Wei, RS-114	Xinglong, Hainan	KJ416344.1	0	0
<i>Cheilosoria patula</i>	H.J. Wei, 155	Shimen, Hunan	DQ432641.1	0	0
<i>Cheilosoria tenuifolia</i>	X.L. Zhou, 20120512	Yizhang, Hunan	KP126965.1	0	0
<i>Cheilosoria chusana</i>	Y.F. Gu et al., MS153	Yizhang, Hunan	DQ432650.1	0	0
<i>Aleuritopteris pseudofarinosa</i>	Y.H. Yan et al., 13005	Motuo, Tibet	KP085547.1	0	0
<i>Aleuritopteris chrysophylla</i>	Y.F. Gu et al., MS131	Yizhang, Hunan	KP126956.1	1	0
<i>Aleuritopteris argentea</i>	Y.H. Yan et al., 12781	Chayu, Tibet	AY266410.1	1	0
<i>Paragymnopteris vestita</i>	Y.H. Yan et al., 12877	Chayu, Tibet	DQ432652.1	1	0
<i>Paragymnopteris marantae</i>	Y.H. Yan et al., 12913	Chayu, Tibet	EF452161.1	1	0
<i>Paragymnopteris bipinnata</i>	Y.H. Yan et al., 12903	Chayu, Tibet	DQ432656.1	1	0
<i>Paragymnopteris bipinnata</i> var. <i>auriculata</i>	Y.H. Yan et al., 12673	Xianggelila, Yunnan		1	0
<i>Pellaea nitidula</i>	Y.H. Yan et al., 13018	Lasa, Tibet	DQ432638.1	0	0
<i>Pellaea mairei</i>	Y.H. Yan et al., 12814	Chayu, Tibet	KP085560.1	0	0
<i>Doryopteris concolor</i>	Y.F. Gu	Chenshan Botanical Gardern, Shanghai	AY266414.1	0	0
<i>Notholaena hirsuta</i>	Y.H. Yan et al., 1623	Xinyi, Guangdong	KY099780.1	0	0
<i>Notholaena chinensis</i>	H.J. Wei, 156	Shimen, Hunan	DQ432651.1	0	0
<i>Hemionitis arifolia</i>	Y.F. Gu	Chenshan Botanical Gardern, Shanghai	JX313529.1	0	0

<i>Aleuritopteris subvillosa</i> var. <i>tibetica</i>	Y.H. Yan et al., 12715	Mangkang, Tibet	JQ855926.1	1	0
<i>Antrophyum callifolium</i>	Y.H. Yan et al., HN025	Changjiang, Hainan	EU024554.1	1	1
<i>Antrophyum obovatum</i>	Y.H. Yan et al., 12207	Hekou, Yunnan	AB574804.1	1	1
<i>Haplopteris linearifolia</i>	Y.H. Yan, 12409	Yingde, Guangdong	KX165012.1	1	1
<i>Haplopteris doniana</i>	Y.H. Yan et al., 13013	Motuo, Tibet	KX164989.1	1	1
<i>Haplopteris anguste-elongata</i>	Y.H. Yan, 11603	Taibei, Taiwan	KX164984.1	1	1
<i>Haplopteris amboinensis</i>	Y.H. Yan et al., 12060	Xishuangbanna, Yunnan	KX164982.1	1	1
<i>Haplopteris fudzinoi</i>	Y.F. Gu et al., MS124	Yizhang, Hunan	KX165003.1	1	1
<i>Haplopteris plurisulcata</i>	W.M. Zhu et al., 2013001	Xinping, Yunnan	KX165016.1	1	1
<i>Haplopteris flexuosa</i>	Y.H. Yan et al., 13149	Motuo, Tibet	AB574817.1	1	1
<i>Monogramma paradoxa</i>	R. Schlechter, 14157	Kaiser-Wilhelmsland	KY099874.1	1	1
<i>Adiantum gravesii</i>	H.J. Wei, 232	Shimen, Hunan	MH019579.1	0	0
<i>Adiantum mariesii</i>	H.J. Wei, 233	Shimen, Hunan	MH019597.1	0	0
<i>Adiantum capillus-veneris</i> var. <i>dissectum</i>	H.J. Wei, 896	Sangzhi, Hunan	JF935318.1	0	0
<i>Adiantum myriosorum</i>	W.M. Zhu et al., 201377003	Xinping, Yunnan	MH019605.1	0	0
<i>Adiantum flabellulatum</i>	H.J. Wei et al., DRS001	Beiliu, Guangxi	KU147275.1	0	0
<i>Adiantum philippense</i>	Y.H. Yan et al., 11399	Changjiang, Hainan	MH019616.1	0	0
<i>Adiantum caudatum</i>	Y.H. Yan, K15	HongKong	MH019548.1	0	0
<i>Adiantum fengianum</i>	Y.H. Yan et al., 12692	Deqin, Yunnan	MH019568.1	0	0
<i>Adiantum malesianum</i>	X.P. Qi, 20100919	Long'an, Guangxi	EF452132.1	0	0
<i>Adiantum meishanensis</i>	Y.H. Yan et al.,	Yuanjiang, Yunnan	KP637232.1	0	0
<i>Adiantum erythrochlamys</i>	X.L. Zhou et al., ZXL09721	Sangzhi, Hunan	MH019566.1	0	0
<i>Adiantum capillus-veneris</i>	Y.F. Gu et al., MS148	Yizhang, Hunan	LC004119.1	0	0
<i>Adiantum juxtapositum</i>	Y.H. Yan et al., 13165	Renhua, Guangdong	JF935305.1	0	0
<i>Adiantum fimbriatum</i>	Y.H. Yan et al., 12669	Xianggelila, Yunnan	JF935321.1	0	0