

Supplementary data

Table S1. Distribution of *rbcL* haplotypes of *Pachymeniopsis lanceolata*.

Country	Korea																								Japan													GenBank
Region	Jeju				Southern coast				Eastern coast																	Accession												
Haplotypes	JJ	SG	JD	GM	YS	NH	TY	GA	GI	US	GP	PH	YD	UJ	JB	SC	GW	SK	GS	FK	SM	ES	MS	OS	OT	Total	Number											
LR01	18	29		2	1	7	1	3	8	10		12		8		11	1			1		6	5		1	124	MZ558314											
LR02			1			2			3	2	1	2	1	5			16	1	1							35	MZ558315											
LR03												2		10	1											13	MZ558316											
LR04														1												1	MZ558317											
LR05														1												1	MZ558318											
LR06										1	10			1	3											15	MZ558319											
LR07												1			2											3	MZ558320											
LR08												5														5	MZ558321											
LR09										1																1	MZ558322											
LR10												1														1	MZ558323											
LR11																				1				1		2	AB055477											
LR12																	2	1	1							4	GU168556											
LR13																	1									1	GU168557											
LR14																					2					2	MZ558325											
LR15																					7					7	MZ558326											
Total	18	29	1	2	1	9	1	3	11	12	3	33	1	26	6	11	20	2	2	2	9	6	5	1	1	215												

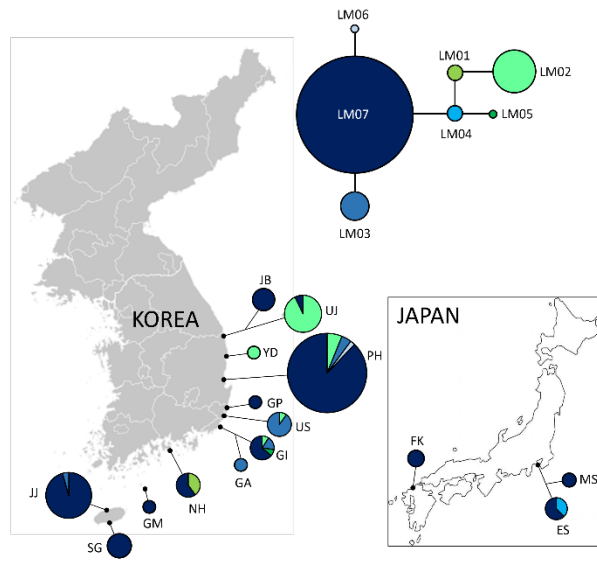
JJ, Jejusi; SG, Seogwipo; JD, Jindo; GM, Geomundo; YS, Yeosu; NH, Namhaedo; TY, Tongyeong; GA, Gwanganri; GI, Gijang; US, Ulsan; GP, Gampo; PH, Pohang; YD, Yeongdeok; UJ, Uljin; JB, Jukbyeon; SC, Samcheok; GW, Gangwon; SK, Sokcho; GS, Goseong; FK, Fukuoka; SM, Shimoda; ES, Enoshima; MS, Misaki; OS, Oshoro; OT, Otaru

Table S2. Distribution of *rbcL* haplotypes of *Pachymeniopsis elliptica*

Country	Korea																	GenBank
Region	Jeju								Japan									Accession
Haplotypes	JJ	SG	WD	GM	TY	GJ	HA	GI	US	GP	PH	JB	SM	MS	KS	HK	Total	Number
ER01	40	12	7	12	5	4	8	23	2		9	1	4	3	2	1	133	MZ558327
ER02	1																1	MZ558328
ER03											1						1	MZ558329
ER04											1						1	MZ558330
ER05										1							1	MZ558331
ER06					1												1	MZ558332
Total	41	12	7	12	6	4	8	23	2	1	11	1	4	3	2	1	138	

JJ, Jejusi; SG, Seogwipo; WD, Wando; GM, Geomundo; TY, Tongyeong; GJ, Geoje; HA, Haeundae; GI, Gijang; US, Ulsan; GP, Gampo; PH, Pohang; JB, Jukbyeon; SM, Shimoda; MS, Misaki; KS, Katsuura; HK, Hakodate

(A) *Pachymeniopsis lanceolata*



(B) *Pachymeniopsis elliptica*

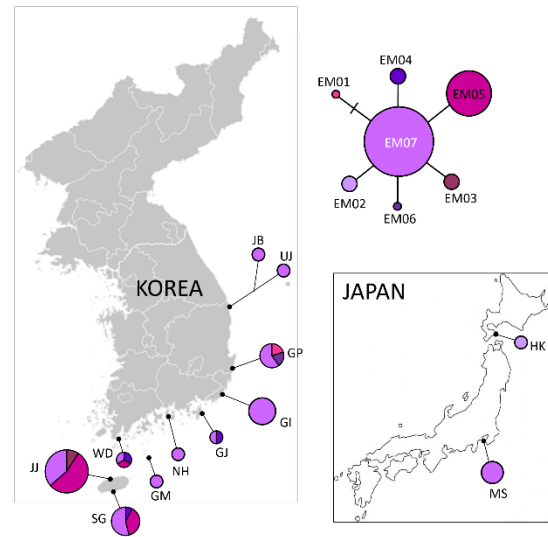


Figure S1. Geographic distribution of haplotypes and haplotype networks of *Pachymeniopsis lanceolata* (A) and *P. elliptica* (B) based on the mitochondrial COI-5P gene. On the map, each circle represents a location and the proportion of pie chart indicates the frequency of specimens for each haplotype. The pie chart color corresponds to the one used in haplotype networks. In the network, each connecting lines represent single mutational steps. The vertical bars represent the number of mutational steps between two haplotypes when >1.