



Supplement

The following supplementary materials are available for this article: Amamoto, K., Inoue, Y., Aung, M.M., Yamaguchi, T. 2023 Morphological and molecular evaluation of Japanese *Plicanthus* R.M.Schust. (Anastrophyllaceae, Marchantiophyta). *Taiwania* 68(2): 250-254. doi: 10.6165/ta.2023.68.250

Table S1. Specimens examined.

JAPAN. Honshu. Fukushima-ken, Futatsuya-san, 650 m elev., *S. Nemoto* 996 (personal herbarium, DNA voucher); Tochigi-ken, Kannon-yama, *Y. Horikawa* 17792 (HIRO). Yamanashi-ken, Shosenkyo, 700 m elev., *T. Amakawa* 100418 (HIRO); Gunma-ken, Tanigawa-dake, 1800 m elev., *T. Amakawa* 100408 (HIRO); Shizuoka-ken, Haibara-gun, Honkawane-cho, Sumatakyo, 770 m elev., Bryophyta Selecta Exsiccata 1268 (HIRO). Aichi-ken, Houraiji-zan, 571 m elev., *K. Amamoto* 21 (HIRO, DNA voucher); ditto, 581 m elev., *K. Amamoto* 30 (HIRO, DNA voucher); Inuyama, 100 m elev., *T. Amakawa* 100412 (HIRO); Gifu-ken, Kinka-zan, 280 m elev., *K. Amamoto* 10 (HIRO, DNA voucher); ditto, 260 m elev., *K. Amamoto* 11 (HIRO, DNA voucher); Mie-ken, Taki-gun, Osugi-dani, 430 m elev., *K. Amamoto* 27 (HIRO, DNA voucher); Matsuzaka-shi, 440 m elev., *K. Amamoto* 25 (HIRO, DNA voucher); Emagoya-dani, 430 m elev., *K. Amamoto* 26 (HIRO, DNA voucher); Osugi-dani, *K. Amamoto* 29 (HIRO, DNA voucher); Nara-ken, Yoshino-gun, Shirokura, Mata-dani, 460 m elev., Bryophytes of Asia 270 (HIRO); ditto, Sasano-taki, *K. Amamoto* 24 (HIRO, DNA voucher); ditto, Odaigahara, 1400 m elev., *T. Amakawa* 100415 (HIRO); Kyoto-fu, Zyubu-sen, 500 m elev., *K. Amamoto* 22 (HIRO, DNA voucher); Okayama-ken, Souzya-shi, Goukei, 250 m elev., *M. Higuchi* 10080 (HIRO); Hiroshima-ken, Kui-Gankai, 540 m elev., *K. Amamoto* 1116 (HIRO); Otake-shi, Mikura-dake, 500 m elev., *M. Higuchi* 2051 (HIRO), Yamagata-gun, Ryuzu-kyo, *K. Amamoto* 13 (HIRO, DNA voucher); Miyajima Isl., 530 m elev., *Y. Inoue* 542, 543 (HIRO); ditto, 400 m elev., *Y. Horikawa* 74 (HIRO); Ege-zan, 558 m elev., *K. Amamoto* 12 (HIRO, DNA voucher); Yamaguchi-ken, Yamaguchi-shi, Tokuchiindani, 495 m elev., *K. Amamoto* 17 (HIRO, DNA voucher); ditto, 483 m elev., *K. Amamoto* 16 (HIRO, DNA voucher). Shikoku. Kochi-ken, Nakatsu-keikoku, 250 m elev., *K. Amamoto* 150 (HIRO, DNA voucher); Akaoka-gun, Yokogura-yama, 500–700 m elev., *Y. Horikawa* 12454 (HIRO); Tokushima-ken, Turugis-san, *Y. Horikawa* 7274 (HIRO). Kyushu. Fukuoka-ken, Dazaifu-shi, Houman-zan, *K. Amamoto* 35 (HIRO, DNA voucher); Nagasaki-ken, Shimo-agata-gun, Mitsushima-cho, Sumo-Shiratake, *H. Deguchi* 34830 (HIRO); Miyazaki-ken, Hiei-zan, 647 m elev., *K. Amamoto* 1112, 1113, 1114 (HIRO, all DNA vouchers); Higashiusuki-gun, Kurotake, 1100–1200 m elev., *M. Matsumoto* 1854 (NICH); Kagoshima-ken, Yakushima Isl., 1040 m elev., *T. Yamaguchi* 25446 (HIRO); ditto, 965 m elev., *T. Yamaguchi* 25378 (HIRO); ditto, Shibi-san, *Y. Horikawa* 12087 (HIRO). **Myanmar.** Kayah State, 1130 m elev., *Y. Inoue* 7232 (TNS, RAF, HIRO, DNA voucher).

Table S2. List of primer sequences used for PCR amplification and sequencing.

Primer name	Sequence (5'-3')	Target region	Reference	Note
Forward				
rbcl-53h	TCGAGTAGACCTTATCCTTGCG	<i>rbcl</i>	Inoue & Tsubota (2014)	PCR
HrL1	ATGTCACCACAAACGGAGACTAAAGCAGG	<i>rbcl</i>	Masuzaki <i>et al.</i> (2010)	PCR & Sequencing
rbcl7	TGGATTTAAAGCTGGTGTAAAG	<i>rbcl</i>	Tsubota <i>et al.</i> (1999)	Sequencing
rbcl920Fmas	CATGGTATGCATTTCCGTGT	<i>rbcl</i>	Masuzaki <i>et al.</i> (2010)	Sequencing
trnT71F	CCGCTATCGGAGTCGAACCGATGACCATCG	<i>trnL-F</i>	Tsubota <i>et al.</i> (2015)	PCR
trnC	CGAAATCGGTAGACGCTACG	<i>trnL-F</i>	Taberlet <i>et al.</i> (1991)	PCR & Sequencing
trnT36R	GTAATGCGATGGTCATCGGTTCCGACTCCGATA	<i>rps4</i>	Inoue <i>et al.</i> (2012)	PCR
rps4_1R	ATGTCCCCTTATCGAGGACCTCGTGTA	<i>rps4</i>	Inoue <i>et al.</i> (2012)	PCR & Sequencing
rps4_19Fi	CCTCGTGTAAGAATAATACGTC	<i>rps4</i>	Inoue & Tsubota (2014)	Sequencing
18S1659B	CGTCGCTCCTACCGATTG	ITS	Oguri <i>et al.</i> (2003)	PCR & Sequencing
18S1764B	AGAGGAAGGAGAAGTCGTAAC	ITS	Oguri <i>et al.</i> (2003)	PCR & Sequencing
Reverse				
trnR24R	CTCTAATCCACTGAGCTACA	<i>rbcl</i>	Tsubota <i>et al.</i> (1999)	PCR
rbcl1301RL	CTTCATTACGTGCTTGACACAAGCTTCTA	<i>rbcl</i>	Inoue <i>et al.</i> (2011)	PCR & Sequencing
rbcl1098R	AACACCTGGTAAAGAAACC	<i>rbcl</i>	Tsubota <i>et al.</i> (1999)	Sequencing
rbcl270R	GCAATATATTGATTTTCTCTCCAG	<i>rbcl</i>	Tsubota <i>et al.</i> (1999)	Sequencing
trnF1F	TGCCAGAAACCAGATTTGAACTGGTGACAC	<i>trnL-F</i>	Tsubota <i>et al.</i> (2015)	PCR
trnD	GGGGATAGAGGGACTTGAAC	<i>trnL-F</i>	Taberlet <i>et al.</i> (1991)	PCR & Sequencing
trnS	TACCGAGGGTTCGAATC	<i>rps4</i>	Souza-Chies <i>et al.</i> (1997)	PCR
rps4_609RL	TTAAGCTTGACGAGAATAATATTC	<i>rps4</i>	Masuzaki <i>et al.</i> (2010)	PCR & Sequencing
rps4_578Ri	CGAGAATAATATTCTACAACCTA	<i>rps4</i>	Inoue & Tsubota (2014)	Sequencing
26S166BR	GAGGACGCTTCTCCAGACTAC	ITS	Oguri <i>et al.</i> (2003)	PCR & Sequencing
26S102BR	CCGGTTCGCTCGCCG	ITS	Oguri <i>et al.</i> (2003)	PCR & Sequencing