



## Supplement

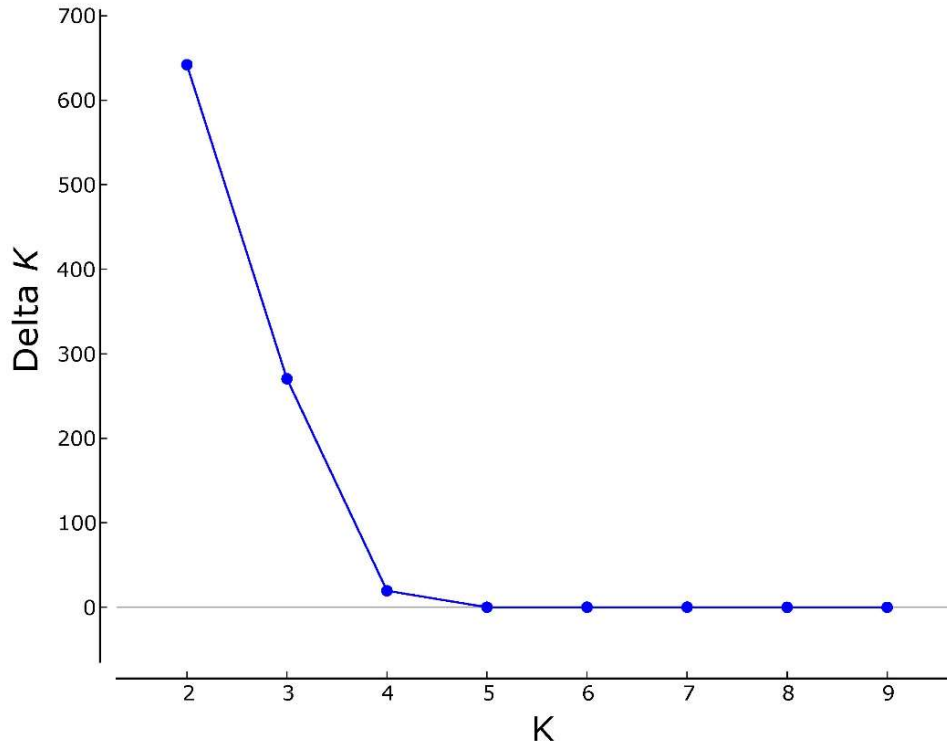
The following supplementary materials are available for this article: Suetsugu, K., S.K. Hirota, Y. Suyama. 2021. A new natural hybrid, *Goodyera*  $\times$  *tanakae* (Orchidaceae) from Japan with a discussion on the taxonomic identities of *G. foliosa*, *G. sonoharae*, *G. velutina*, *G.  $\times$ maximo-velutina* and *G. henryi*, based on morphological and molecular data. *Taiwania* 66(3): 277-286. Doi: 10.6165/tai.2021.66.277

**Table S1.** Materials used in morphological and MIG-seq analysis.

Scientific name	Sample ID	Herbarium deposited	Collector	Collection date	Sampling locality	Population code	DRA number
<i>Goodyera velutina</i>	STG00434	KYO	Masayuki Ishibashi	2016-09-28	Japan: Tokyo, Hachijō-jima	HCJ	DRA011506
<i>Goodyera velutina</i>	STG00395	KYO	Kenji Suetsugu & Takuto Shitara	2016-09-18	Japan: Tokyo, Kozushima	KOZ	DRA011506
<i>Goodyera velutina</i>	STG00396		Kenji Suetsugu & Takuto Shitara	2016-09-18	Japan: Tokyo, Kozushima	KOZ	DRA011506
<i>Goodyera velutina</i>	STG00398		Kenji Suetsugu & Takuto Shitara	2016-09-18	Japan: Tokyo, Kozushima	KOZ	DRA011506
<i>Goodyera velutina</i>	STG00399		Kenji Suetsugu & Takuto Shitara	2016-09-18	Japan: Tokyo, Kozushima	KOZ	DRA011506
<i>Goodyera velutina</i>	STG00400		Kenji Suetsugu & Takuto Shitara	2016-09-18	Japan: Tokyo, Kozushima	KOZ	DRA011506
<i>Goodyera velutina</i>	STG00418		Takuto Shitara	2016-09-25	Japan: Tokyo, Kozushima	KOZ	DRA011506
<i>Goodyera velutina</i>	STG00432		Masayuki Ishibashi	2016-09-27	Japan: Tokyo, Kozushima	KOZ	DRA011506
<i>Goodyera velutina</i>	STG00463		Masayuki Ishibashi	2017-10-05	Japan: Tokyo, Kozushima	KOZ	DRA011506
<i>Goodyera velutina</i>	STG00464		Masayuki Ishibashi	2017-10-05	Japan: Tokyo, Kozushima	KOZ	DRA011506
<i>Goodyera velutina</i>	STG00465		Masayuki Ishibashi	2017-10-05	Japan: Tokyo, Kozushima	KOZ	DRA011506
<i>Goodyera velutina</i>	STG00466		Masayuki Ishibashi	2017-10-05	Japan: Tokyo, Kozushima	KOZ	DRA011506
<i>Goodyera velutina</i>	STG00470		Masayuki Ishibashi	2017-10-05	Japan: Tokyo, Kozushima	KOZ	DRA011506
<i>Goodyera velutina</i>	STG00421	KYO	Masayuki Ishibashi	2016-09-13	Japan: Tokyo, Niijima	NJM	DRA011506
<i>Goodyera velutina</i>	STG00426		Masayuki Ishibashi	2016-09-22	Japan: Tokyo, Niijima	NJM	DRA011506
<i>Goodyera velutina</i>	STG00427	KYO	Masayuki Ishibashi	2016-09-23	Japan: Saitama, Sayama Hills	SYM	DRA011506
<i>Goodyera henryi</i>	STG00447	KYO	Hiroshi Kawaguchi	2017-08-05	Japan: Hokkaido, Sapporo	SPR	DRA011700
<i>Goodyera henryi</i>	STG00443	KYO	Toshiyuki Sasaki	2017-08-03	Japan: Aomori, Rokkasho	RKS	DRA011700
<i>Goodyera henryi</i>	STG00445		Toshiyuki Sasaki	2017-08-03	Japan: Aomori, Rokkasho	RKS	DRA011700
<i>Goodyera henryi</i>	STG00446		Toshiyuki Sasaki	2017-08-03	Japan: Aomori, Rokkasho	RKS	DRA011700
<i>Goodyera henryi</i>	STG00425	KYO	Masayuki Ishibashi	2016-09-22	Japan: Saitama, Sayama Hills	SYM	DRA011700
<i>Goodyera henryi</i>	STG00442	KYO	Katsumi Iwahori	2017-07-28	Japan: Gifu, Ena	ENA	DRA011700
<i>Goodyera henryi</i>	STG00487		Katsumi Iwahori	2017-11-27	Japan: Gifu, Ena	ENA	DRA011700
<i>Goodyera henryi</i>	STG00488		Katsumi Iwahori	2017-11-27	Japan: Gifu, Ena	ENA	DRA011700
<i>Goodyera henryi</i>	STG00489		Katsumi Iwahori	2017-11-27	Japan: Gifu, Ena	ENA	DRA011700
<i>Goodyera henryi</i>	STG00448	KYO	Hisanori Takeuchi	2017-08-05	Japan: Kochi, Kami	KAM	DRA011700
<i>Goodyera henryi</i>	STG00428	KYO	Koji Tanaka	2016-09-27	Japan: Fukuoka, Kitakyushu, Kokura	KKR	DRA011700
<i>Goodyera henryi</i>	STG00436		Koji Tanaka	2016-09-22	Japan: Fukuoka, Kitakyushu, Kokura	KKR	DRA011700
<i>Goodyera foliosa</i>	STG00455		Tazuko Watanabe	2018-11-24	Japan: Okinawa, Kunigami	KGM	DRA011700



<i>Goodyera foliosa</i>	STG00456 (KS339)	KYO	Tazuko Watanabe	2018-11-24	Japan: Okinawa, Kunigami	KGM	DRA011700
<i>Goodyera foliosa</i>	STG00456 (KS340)	KYO	Tazuko Watanabe	2018-11-24	Japan: Okinawa, Kunigami	KGM	DRA011700
<i>Goodyera foliosa</i>	STG00456 (KS341)	KYO	Tazuko Watanabe	2018-11-24	Japan: Okinawa, Kunigami	KGM	DRA011700
<i>Goodyera foliosa</i>	STG00459		Tazuko Watanabe	2018-11-24	Japan: Okinawa, Kunigami	KGM	DRA011700
<i>Goodyera foliosa</i>	STG00460		Tazuko Watanabe	2018-11-24	Japan: Okinawa, Kunigami	KGM	DRA011700
<i>Goodyera foliosa</i>	STG00461		Tazuko Watanabe	2018-11-24	Japan: Okinawa, Kunigami	KGM	DRA011700
<i>Goodyera foliosa</i>	STG00422		Koji Tanaka	2016-09-15	Japan: Fukuoka, Munakata	MNK	DRA011700
<i>Goodyera foliosa</i>	STG00423 (KS816)	KYO	Koji Tanaka	2016-09-15	Japan: Fukuoka, Munakata	MNK	DRA011700
<i>Goodyera foliosa</i>	STG00431(KS817)	KYO	Koji Tanaka	2016-09-27	Japan: Fukuoka, Munakata	MNK	DRA011700
<i>Goodyera foliosa</i>	STG00437		Koji Tanaka	2016-09-22	Japan: Fukuoka, Munakata	MNK	DRA011700
<i>Goodyera x tanakae</i>	STG00430 (KS819)	KYO	Koji Tanaka	2016-09-27	Japan: Fukuoka, Kitakyushu, Kokura	KKR	DRA011700
<i>Goodyera x tanakae</i>	STG00435 (KS818)	KYO	Koji Tanaka	2016-09-22	Japan: Fukuoka, Kitakyushu, Kokura	KKR	DRA011700
<i>Goodyera x maximo-velutina</i>	STG00462 (M. Ishibashi MI158)	TNS	Masayuki Ishibashi	2018-09-11	Japan: Saitama, Sayama Hills	SYM	DRA011700
<i>Goodyera x maximo-velutina</i>	STG00477 (K. Ishida HT12)	TNS	Kenya Ishida	2018-09-16	Japan: Tokyo, Kozushima	KOZ	DRA011700
<i>Goodyera x maximo-velutina</i>	STG00486 (K. Ishida HH220)	SPMN	Kenya Ishida	2017-10-01	Japan: Tokyo, Kozushima	KOZ	DRA011700



**Fig. S1.** Delta  $K$  values for each  $K$  from 1 to 10 calculated by the method of Evanno *et al.* (2005). The largest and second-largest values were obtained for  $K = 2$  and 3.