

## Supplementary Material

**Title:** Elucidation of the phylogenetic relationships among *Alpinia* species native to the Nansei Islands, Japan

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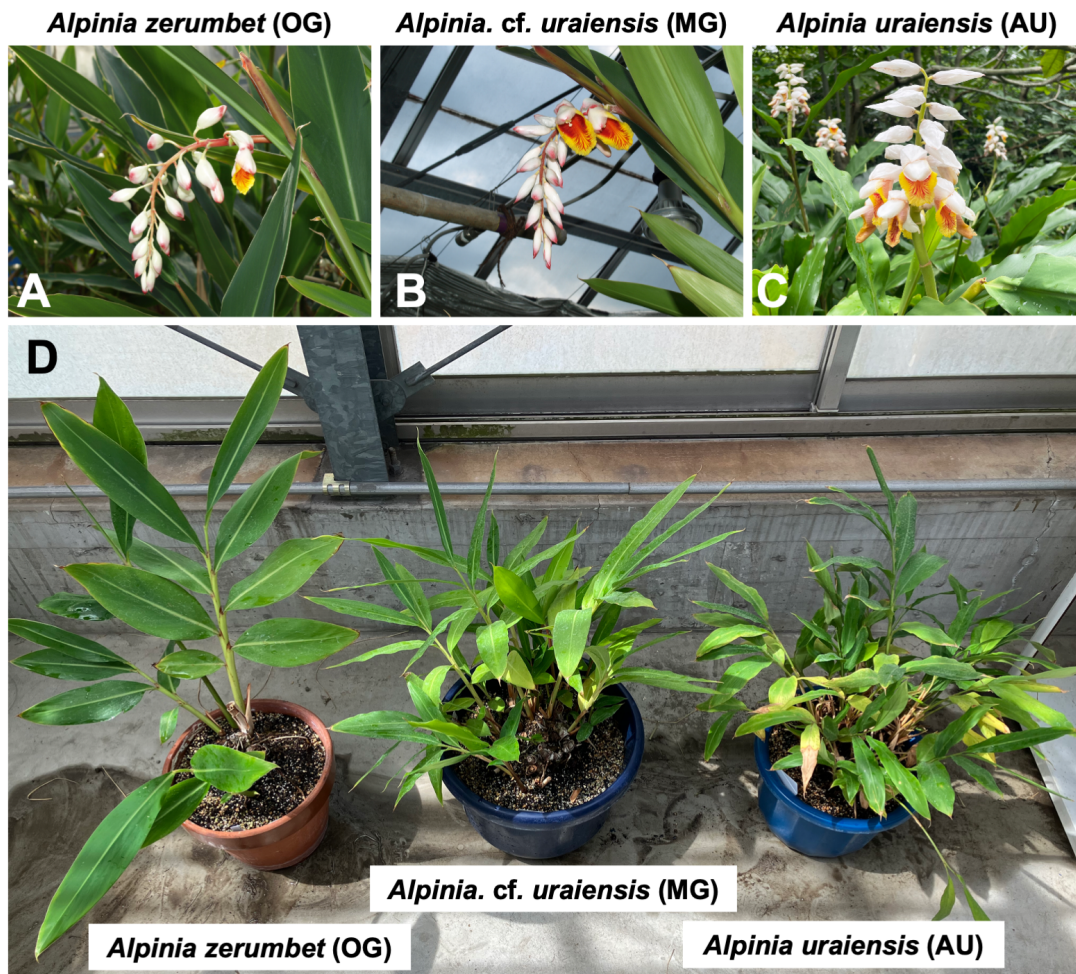
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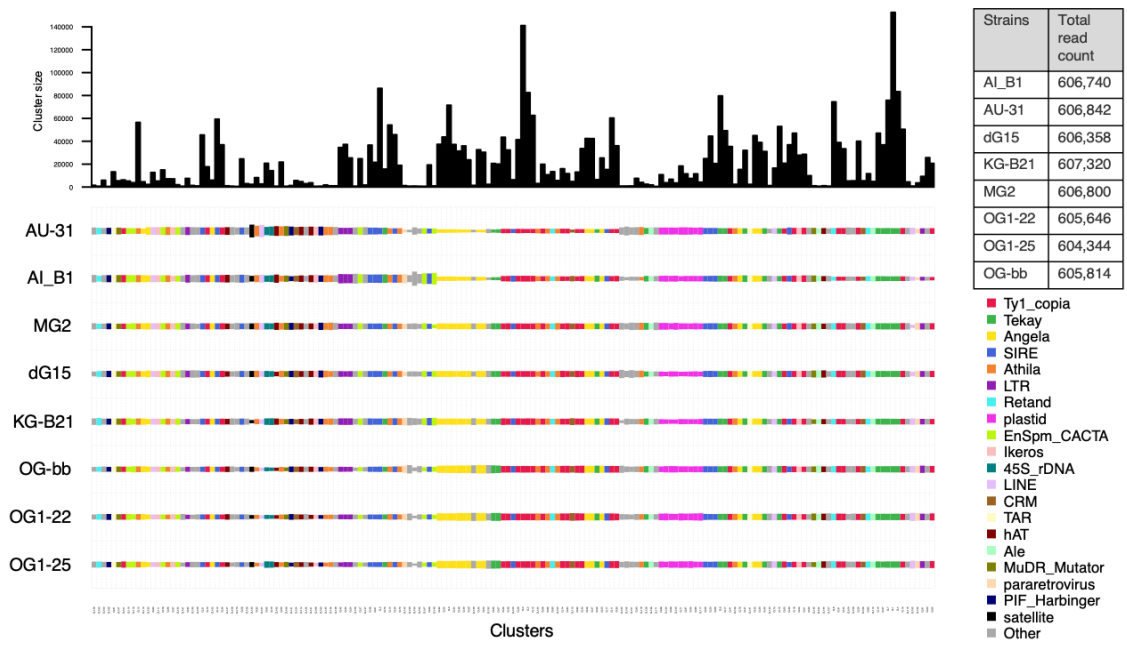
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**Fig. S1. Various morphologies of the *Alpinia* species.** Photographs of flowers (a, b, and c) and whole plants (d). Species names are indicated above or below the photographs.



**Fig. S2. Type of clusters assembled by RepeatExplorer2 using reads derived from each *Alpinia* species and the proportion of sequences encompassed.**

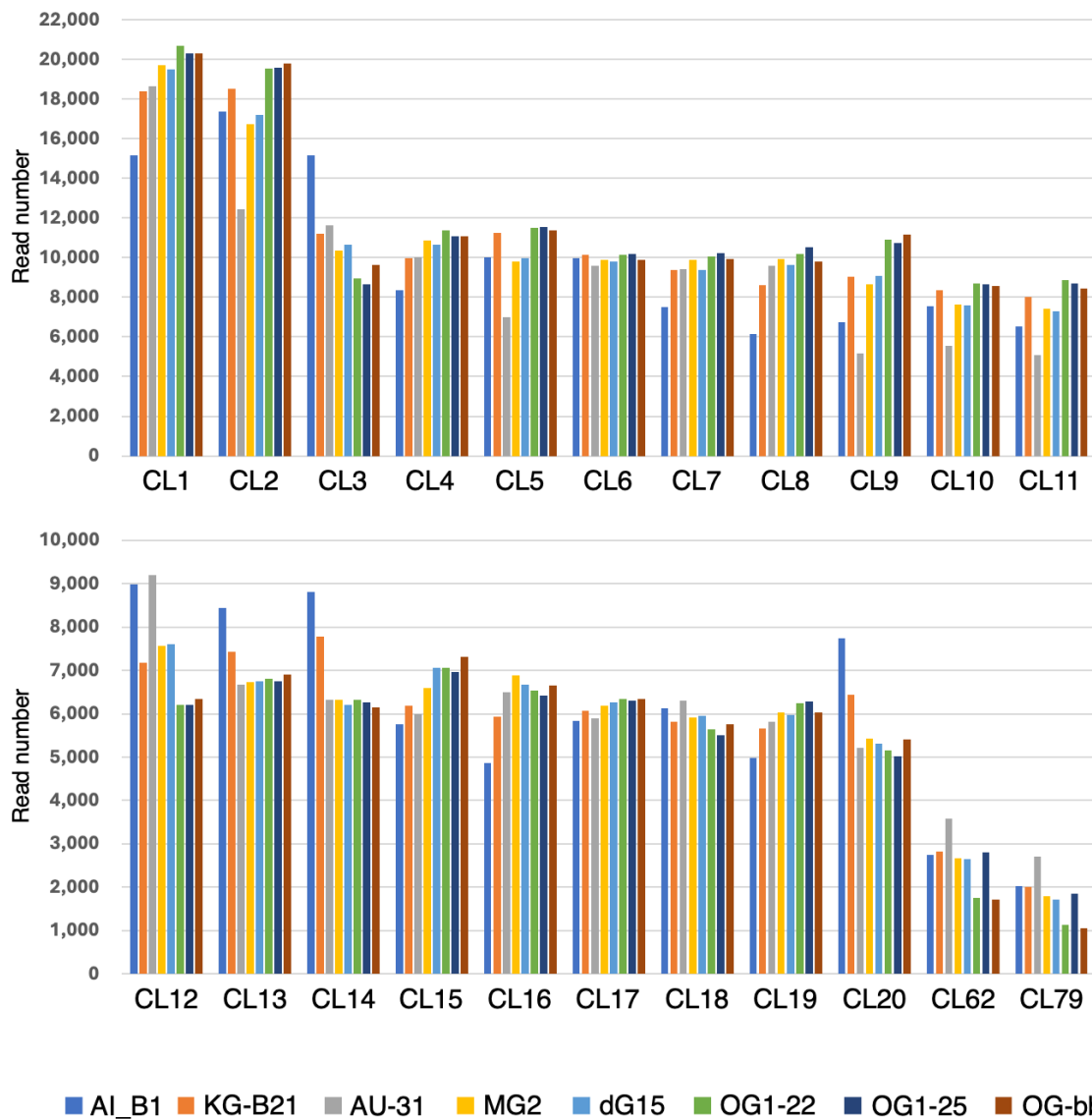


Fig. S3. Number of reads derived from each *Alpinia* species in the clusters assembled by RepeatExplorer2. The number of reads from each lineage encompassed by CL1-20, CL62 and CL79 was indicated by the bar graphs.



**Table S1. Multiple regression analysis of the repetitive sequence ratios for KG-B21**

Species 1	Species 2	Adjusted R-Squared	F test	Partial regression coefficient (Species 1)	Partial regression coefficient (Species 2)
dG15		0.9858	6.7E-150	1.01	
dG15	AI-B1	0.9921	2.3E-168	0.76	0.26
dG15	AU-31	0.9864	1.8E-149	1.10	-0.11
dG15	OG1-22	0.9863	2.4E-149	0.84	0.15
dG15	OG1-25	0.9865	7.2E-150	0.82	0.17
dG15	OG-bb	0.9866	5.5E-150	0.80	0.20
dG15	MG2	0.9857	8.8E-148	0.98	0.03
OG-bb		0.9744	1.9E-129	0.93	
OG-bb	AI-B1	0.9975	1.4E-208	0.60	0.40
OG-bb	AU-31	0.9862	6.0E-149	0.69	0.31
OG-bb	OG1-22	0.9751	1.1E-128	1.63	-0.70
OG-bb	OG1-25	0.9742	1.8E-127	0.98	-0.05
OG-bb	MG2	0.9859	3.1E-148	0.27	0.72
OG-bb	dG15	0.9866	5.5E-150	0.20	0.80
MG2		0.9841	5.4E-146	1.01	
MG2	AI-B1	0.9920	1.1E-167	0.75	0.28
MG2	AU-31	0.9853	7.3E-147	1.15	-0.16
MG2	OG1-22	0.9852	1.5E-146	0.79	0.21
MG2	OG1-25	0.9853	7.0E-147	0.78	0.22
MG2	OG-bb	0.9859	3.1E-148	0.72	0.27
MG2	dG15	0.9857	8.8E-148	0.03	0.98

OG1-25		0.9704	1.8E-124	0.94	
OG1-25	AI-B1	0.9990	5.5E-240	0.58	0.43
OG1-25	AU-31	0.9843	1.8E-144	0.68	0.33
OG1-25	OG1-22	0.9707	4.8E-123	0.47	0.46
OG1-25	OG-bb	0.9742	1.8E-127	-0.05	0.98
OG1-25	MG2	0.9853	7.0E-147	0.22	0.78
OG1-25	dG15	0.9865	7.2E-150	0.17	0.82
OG1-22		0.9704	1.8E-124	0.93	
OG1-22	AI-B1	0.9986	6.0E-227	0.58	0.42
OG1-22	AU-31	0.9843	1.6E-144	0.67	0.33
OG1-22	OG1-25	0.9707	4.8E-123	0.46	0.47
OG1-22	OG-bb	0.9751	1.1E-128	-0.70	1.63
OG1-22	MG2	0.9852	1.5E-146	0.21	0.79
OG1-22	dG15	0.9863	2.4E-149	0.15	0.84

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**Table S2. Multiple regression analysis of the repetitive sequence ratios for MG2**

Species 1	Species 2	Adjusted R-Squared	F test	Partial regression coefficient (Species 1)	Partial regression coefficient (Species 2)
dG15		0.998	2.2E-221	1.00	
dG15	AI-B1	0.998	1.4E-219	1.02	-0.02
dG15	AU-31	0.998	2.0E-223	0.94	0.06
dG15	KG-B21	0.998	8.1E-219	0.99	0.00
dG15	OG1-22	0.998	7.8E-219	0.99	0.01
dG15	OG1-25	0.998	5.4E-219	0.98	0.02
dG15	OG-bb	0.998	3.2E-219	1.03	-0.03
OG-bb		0.977	3.3E-133	0.92	
OG-bb	AI-B1	0.986	2.4E-148	0.71	0.25
OG-bb	AU-31	0.999	3.4E-245	0.59	0.42
OG-bb	KG-B21	0.987	5.8E-152	0.33	0.63
OG-bb	OG1-22	0.977	3.4E-131	0.94	-0.02
OG-bb	OG1-25	0.977	2.5E-131	0.77	0.15
OG-bb	dG15	0.998	3.2E-219	-0.03	1.03
KG-B21		0.984	5.4E-146	0.98	
KG-B21	AI-B1	0.987	8.0E-151	1.18	-0.22
KG-B21	AU-31	0.990	5.7E-161	0.74	0.28
KG-B21	OG1-22	0.988	7.7E-153	0.64	0.32
KG-B21	OG1-25	0.987	4.3E-152	0.65	0.31
KG-B21	OG-bb	0.987	5.8E-152	0.63	0.33
KG-B21	dG15	0.998	8.1E-219	0.99	0.00
OG1-25		0.975	1.0E-129	0.92	
OG1-25	AI-B1	0.987	1.6E-151	0.69	0.28
OG1-25	AU-31	0.999	4.4E-232	0.59	0.43

OG1-25	KG-B21	0.987	4.3E-152	0.31	0.65
OG1-25	OG1-22	0.975	5.4E-129	0.27	0.65
OG1-25	OG-bb	0.977	2.5E-131	0.15	0.77
OG1-25	dG15	0.998	5.4E-219	0.02	0.98
OG1-22		0.975	8.9E-131	0.91	
OG1-22	AI-B1	0.987	4.0E-152	0.69	0.27
OG1-22	AU-31	0.999	3.1E-251	0.58	0.43
OG1-22	KG-B21	0.988	7.7E-153	0.32	0.64
OG1-22	OG1-25	0.975	5.4E-129	0.65	0.27
OG1-22	OG-bb	0.977	3.4E-131	-0.02	0.94
OG1-22	dG15	0.998	7.8E-219	0.01	0.99

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