



Supplement

The following supplementary materials are available for this article: Hsu, F.-C., S.-P. Tseng, P.-W. Hsu, C.-W. Lu, C.-C. S. Yang, C.-C. Lin. 2022. Introduction of a non-native lineage is linked to the recent black cocoa ant, *D. thoracicus* (Smith, 1860), outbreaks in Taiwan. *Taiwania* 67(2): 271-279. doi: 10.6165/tai.2022.67.271

Table S1. Profile information and GPS coordinates for all *Dolichoderus* samples used in this study

Species	Collection date	Locality	Latitude	Longitude	Collection number	mtDNA accession no.	Nuclear DNA accession
<i>D. thoracicus</i>	2016/2/15	Taiwan: Beinan, Taitung	22.8068	121.0523	Dt3-TWN	LC631779	NA
<i>D. thoracicus</i>	2016/2/16	Taiwan: Beinan, Taitung	22.6873	120.9913	Dt5-TWN	LC651324	NA
<i>D. thoracicus</i>	2016/2/1	Taiwan: Hengchun, Pintung	21.9658	120.8123	Dt6-TWN	LC651323	NA
<i>D. thoracicus</i>	2016/8/4	Taiwan: East Dist., Hsinchu	24.7877	120.9829	Dt22-TWN	LC631780	EF1α: LC705210; LR: LC705229; Wg: LC705681
<i>D. thoracicus</i>	2016/7/30	Taiwan: Chunrih, Pintung	22.4147	120.6871	Dt23-TWN	LC631781	NA
<i>D. thoracicus</i>	2016/8/1	Taiwan: Taoyuan Dist., Kaohsiung	23.1593	120.7640	Dt27-TWN	LC651322	EF1α: LC705211; LR: LC705230; Wg: LC705682
<i>D. thoracicus</i>	2016/5/16	Thailand: Supa Bees Farm, Chiang Mai	18.9126	98.9360	Dt29-THA	LC631782	NA
<i>D. thoracicus</i>	2016/4/20	Taiwan: Zhushan, Nantou	23.7573	120.6691	Dt30-TWN	LC651321	NA
<i>D. thoracicus</i>	2016/8/20	Taiwan: Gukeng, Yunlin	23.5974	120.6123	Dt32-TWN	LC651320	NA
<i>D. thoracicus</i>	2016/3/26	Taiwan: Taoyuan Inspection Station	25.0847	121.2422	Dt38-CHN	LC651325	NA
<i>D. thoracicus</i>	2017/3/5	Taiwan: Dongshi, Taichung	24.2203	120.8634	Dt42-TWN	LC651319	NA
<i>D. thoracicus</i>	2016/5/27	Philippines: Diagyan, Aurora, Luzon	16.5267	122.2236	Dt43-PHL	LC631784	NA
<i>D. thoracicus</i>	2016/5/25	Philippines: Baler, Aurora, Luzon	15.7327	121.5521	Dt44-PHL	LC631785	NA
<i>D. thoracicus</i>	2017/2/4	Philippines: Samal Island, Mindanao	6.9646	125.7230	Dt45-PHL	LC631786	EF1α: LC705212; LR: LC705231; Wg: LC705684
<i>D. thoracicus</i>	2017/2/5	Philippines: Mt. Apo, Mindanao	7.0336	125.3998	Dt46-PHL	LC631787	EF1α: LC705213; LR: LC705232; Wg: LC705685
<i>D. thoracicus</i>	2016/11/28	Taiwan: Shuili, Nantou	23.8137	120.8579	Dt52-TWN	LC651318	EF1α: LC705214; LR: LC705233; Wg: LC705686
<i>D. thoracicus</i>	2016/5/29	Philippines: Diagyan, Aurora, Luzon	16.5260	122.2233	Dt56-PHL	LC651317	EF1α: LC705215; LR: LC705234; Wg: LC705687
<i>D. thoracicus</i>	2017/11/24	Philippines: Laguna, Luzon	14.3214	121.4820	Dt57-PHL	LC631788	EF1α: LC632524; LR: LC632526; Wg: LC632528
<i>D. thoracicus</i>	2018/7/1	Cambodia: Phnom Penh	11.5693	104.9284	Dt58-KHM	LC631789	EF1α: LC705216; LR: LC705235; Wg: LC705688
<i>D. thoracicus</i>	2019/10/22	Taiwan: Shizi, Pingtung	22.2151	120.7996	Dt62-TWN	LC651316	NA
<i>D. thoracicus</i>	2019/1/18	Laos: Xiang Di, Phonsavan	19.2928	103.1502	Dt64-LAO	LC631790	EF1α: LC705217; LR: LC705236; Wg: LC705689
<i>D. thoracicus</i>	2019/1/23	Laos: Champasak, Paksong	15.1940	106.1023	Dt65-LAO	LC631791	EF1α: LC705218; LR: LC705237; Wg: LC705690
<i>D. thoracicus</i>	2019/1/16	Laos: Phone Ngeun, Vang Vieng	18.9179	102.4160	Dt67-LAO	LC631792	NA
<i>D. thoracicus</i>	2020/4/9	Taiwan: Jiji, Nantou	23.8282	120.8009	Dt71-TWN	LC651315	NA
<i>D. thoracicus</i>	2017/11/10	Taiwan: Xiulin, Hualien	23.9780	121.4729	Dt72-TWN	LC651314	NA
<i>D. thoracicus</i>	2018/12/24	Taiwan: Haiduan, Taitung	23.0556	121.1484	Dt73-TWN	LC651313	EF1α: LC705219; LR: LC705238; Wg: LC705691
<i>D. thoracicus</i>	2019/4/25	Taiwan: Tianliao, Kaohsiung	22.8895	120.3892	Dt74-TWN	LC651312	NA
<i>D. thoracicus</i>	2019/4/24	Taiwan: Maolin, Kaohsiung	22.8869	120.6773	Dt75-TWN	LC651311	NA



<i>D. thoracicus</i>	2019/5/16	Taiwan: Baihe, Tainan	23.3217	120.4849	Dt79-TWN	LC651310	NA
<i>D. thoracicus</i>	2017/7/11	Taiwan: Fanlu, Chiayi	23.4611	120.5967	Dt81-TWN	LC631793	EF1α: LC705220; LR: LC705239; Wg: LC705692
<i>D. thoracicus</i>	2018/12/18	Taiwan: Xiulin, Hualien	24.0213	121.5788	Dt83-TWN	LC651309	NA
<i>D. thoracicus</i>	2020/4/14	Taiwan: East Dist., Chiayi	23.4830	120.4696	Dt84-TWN	LC651308	NA
<i>D. thoracicus</i>	2019/11/14	Thailand: Sakaerat, Nakhon Ratchasima	14.5099	101.9307	Dt85-THA	LC631794	EF1α: LC705221; LR: LC705240; Wg: LC705693
<i>D. thoracicus</i>	2020/4/14	Taiwan: Tanzi, Taichung	24.2159	120.7118	Dt86-TWN	LC651307	NA
<i>D. thoracicus</i>	2018/7/29	Taiwan: Yuchi, Nantou	23.8575	120.9396	Dt88-TWN	LC651306	NA
<i>D. thoracicus</i>	2018/3/12	Taiwan: Xiulin, Hualien	23.9780	121.4729	Dt91-TWN	LC631795	NA
<i>D. thoracicus</i>	2018/8/21	Taiwan: North Dist., Tainan	23.0052	120.2124	Dt92-TWN	LC631796	NA
<i>D. thoracicus</i>	2019/11/8	Taiwan: Donghe, Taitung	22.8847	121.1806	Dt93-TWN	LC631797	EF1α: LC705222; LR: LC705241; Wg: LC705694
<i>D. thoracicus</i>	2019/9/29	Taiwan: Guoxing, Nantou	23.9713	120.8763	Dt94-TWN	LC651305	NA
<i>D. thoracicus</i>	2019/10/8	Taiwan: Fenyuan, Changhua	24.0338	120.5943	Dt96-TWN	LC651304	NA
<i>D. thoracicus</i>	2019/9/29	Taiwan: Guoxing, Nantou	23.9615	120.8658	Dt97-TWN	LC651303	NA
<i>D. thoracicus</i>	2019/10/8	Taiwan: Shetou, Changhua	23.8888	120.6273	Dt98-TWN	LC651302	NA
<i>D. thoracicus</i>	2019/10/8	Taiwan: Nantou City, Nantou	23.9338	120.6385	Dt99-TWN	LC651301	NA
<i>D. thoracicus</i>	2019/10/9	Taiwan: Fenyuan, Changhua	23.9521	120.6317	Dt100-TWN	LC651300	NA
<i>D. thoracicus</i>	2019/9/29	Taiwan: Guoxing, Nantou	23.9519	120.8573	Dt101-TWN	LC651299	NA
<i>D. thoracicus</i>	2019/10/16	Taiwan: Nanxi, Tainan	23.1843	120.5605	Dt102-TWN	LC631798	EF1α: LC705223; LR: LC705242; Wg: LC705695
<i>D. thoracicus</i>	2020/5/13	Taiwan: Dawu, Taitung	22.3486	120.8904	Dt103-TWN	LC651298	EF1α: LC705224; LR: LC705243; Wg: LC705696
<i>D. thoracicus</i>	2020/5/12	Taiwan: Xihu, Mioli	24.5346	120.7540	Dt104-TWN	LC631799	EF1α: LC705225; LR: LC705244; Wg: LC705697
<i>D. thoracicus</i>	2019/10/23	Taiwan: Shizi, Pingtung	22.2428	120.8432	Dt105-TWN	LC651297	NA
<i>D. thoracicus</i>	2019/9/29	Taiwan: Guoxing, Nantou	23.9616	120.8506	Dt106-TWN	LC651296	NA
<i>D. thoracicus</i>	2019/10/16	Taiwan: Dapu, Chiayi	23.2673	120.5824	Dt107-TWN	LC651295	NA
<i>D. thoracicus</i>	2019/10/14	Taiwan: Majia, Pingtung	22.6991	120.6697	Dt108-TWN	LC651294	NA
<i>D. thoracicus</i>	2019/9/29	Taiwan: Guoxing, Nantou	24.0365	120.8110	Dt109-TWN	LC651293	NA
<i>D. thoracicus</i>	2019/9/28	Taiwan: Changhua City, Changhua	24.0819	120.5770	Dt110-TWN	LC651292	EF1α: LC705226; LR: LC705245; Wg: LC705698
<i>D. thoracicus</i>	2019/9/29	Taiwan: Guoxing, Nantou	24.0474	120.8024	Dt111-TWN	LC651291	NA
<i>D. thoracicus</i>	2019/9/28	Taiwan: Changhua City, Changhua	24.0640	120.5773	Dt112-TWN	LC651290	NA
<i>D. thoracicus</i>	2019/9/28	Taiwan: Changhua City, Changhua	24.0698	120.5766	Dt113-TWN	LC651289	NA
<i>D. thoracicus</i>	2019/9/29	Taiwan: Guoxing, Nantou	23.9974	120.8499	Dt114-TWN	LC651288	NA
<i>D. thoracicus</i>	2020/3/31	Taiwan: Ren'ai, Nantou	24.0187	121.0869	Dt116-TWN	LC651287	NA
<i>D. thoracicus</i>	2020/5/20	Malaysia: Batu Pahat, Johor	1.8609	102.9776	Dt117-MYS	LC631800	NA
<i>D. thoracicus</i>	2020/5/21	Malaysia: Kampung Gelugor, Johor	2.1695	102.5558	Dt118-MYS	LC631801	EF1α: LC705228; LR: LC705247; Wg: LC705699
<i>D. thoracicus</i>	2020/3/20	Taiwan: Nangang, Taipei	25.0465	121.6149	Dt119-TWN	LC651286	NA
<i>D. thoracicus</i>	2020/6/10	Taiwan: Yuchi, Nantou	23.9169	120.8831	Dt121-TWN	LC631802	EF1α: LC705700; LR: LC632527; Wg: LC632529
<i>D. cf. affinis</i>	2016/8/19	Singapore: NUS	1.2958	103.7759	Dt41-SGP	LC631783	EF1α: LC705701; LR: LC705702; Wg: LC705683

CHN, China; KHM, Cambodia; LAO, Laos; MYS, Malaysia; PHL, Philippines; SGP, Singapore; THA, Thailand; TWN, Taiwan.
Note that the sample denoted as "China" was an individual ant worker intercepted at the Taiwanese border.



Table S2. The reaction cycling parameters for three nuclear genes (*Wingless*, *Wg*; Elongation factor 1-alpha, *EF1 α* ; Long-wavelength rhodopsin, *LR*).

Gene	Temperature	Time	Cycle
<i>Wingless (Wg)</i>	94°C	1 min	-
	94°C	1 min	
	56°C	1 min	1 cycle
	72°C	1 min	
	94°C	1 min	
	53°C	1 min	4 cycles
	72°C	1 min	
	94°C	30 sec	
	58°C	45 sec	35 cycles
	72°C	45 sec	
Elongation factor 1-alpha (<i>EF1α</i>)	72°C	3 min	-
	94°C	3 min	-
	94°C	30 sec	
	62°C	45 sec	1 cycle
	72°C	90 sec	
	94°C	30 sec	
	61°C	30 sec	35 cycles
72°C	1 min		
Long-wavelength rhodopsin (<i>LR</i>)	72°C	7 min	-
	94°C	1 min	-
	94°C	1 min	
	50°C	1 min	1 cycle
	72°C	1 min	
	94°C	30 sec	
	58°C	45 sec	35 cycles
	72°C	45 sec	
72°C	3 min	-	

**Table S3.** Results of ModelFinder in *COI* gene: list of models sorted by BIC scores.

Model	LogL	AIC	w-AIC	AICc	w-AICc	BIC	w-BIC
TN+F+I	-1171.6366	2441.2732	0.263	2450.3473	0.3142	2655.8992	0.7906
TIM2+F+I	-1171.1051	2442.2102	0.1646	2451.6722	0.162	2661.2163	0.0554
TIM3+F+I	-1171.1269	2442.2539	0.1611	2451.7159	0.1585	2661.26	0.0542
TIM+F+I	-1171.2092	2442.4183	0.1484	2451.8803	0.146	2661.4244	-0.0499
TN+F+G4	-1175.3812	2448.7624	-0.0062	2457.8365	-0.0074	2663.3884	-0.0187
TN+F+I+G4	-1172.2016	2444.4032	0.055	2453.8652	0.0541	2663.4093	-0.0185
TIM3+F+I+G4	-1171.1554	2444.3108	0.0576	2454.1695	-0.0465	2667.697	-0.0022
TIM2+F+I+G4	-1171.2273	2444.4546	0.0536	2454.3133	-0.0432	2667.8408	-0.002
HKY+F+I	-1180.8485	2457.6971	-0.0001	2466.3921	-0.0001	2667.9429	-0.0019
TIM+F+I+G4	-1171.4866	2444.9733	-0.0414	2454.832	-0.0334	2668.3595	-0.0016
TIM+F+G4	-1175.2634	2450.5269	-0.0026	2459.9889	-0.0025	2669.533	-0.0009
TIM3+F+G4	-1175.2797	2450.5594	-0.0025	2460.0214	-0.0025	2669.5656	-0.0009
TIM2+F+G4	-1175.2838	2450.5676	-0.0025	2460.0296	-0.0025	2669.5737	-0.0008
HKY+F+G4	-1181.9444	2459.8888	0	2468.5838	0	2670.1347	-0.0006
TN+F+R2	-1175.9786	2451.9572	-0.0013	2461.4192	-0.0012	2670.9633	-0.0004
HKY+F+R2	-1179.2469	2456.4938	-0.0001	2465.5679	-0.0002	2671.1198	-0.0004
HKY+F+I+G4	-1180.2232	2458.4465	0	2467.5206	-0.0001	2673.0725	-0.0001
GTR+F+I	-1170.9235	2445.8471	-0.0267	2456.1115	-0.0176	2673.6135	-0.0001
TPM2u+F+I	-1180.7189	2459.4378	0	2468.5119	0	2674.0638	-0.0001
TPM2+F+I	-1180.724	2459.4481	0	2468.5222	0	2674.0741	-0.0001
TPM3u+F+I	-1180.7688	2459.5377	0	2468.6117	0	2674.1637	-0.0001
TPM3+F+I	-1180.7701	2459.5402	0	2468.6143	0	2674.1662	-0.0001
K3Pu+F+I	-1180.8387	2459.6775	0	2468.7515	0	2674.3035	-0.0001
TPM2u+F+G4	-1181.7151	2461.4303	0	2470.5044	0	2676.0563	0
TPM2+F+G4	-1181.7194	2461.4387	0	2470.5128	0	2676.0647	0
TPM2u+F+R2	-1178.7172	2457.4345	-0.0001	2466.8964	-0.0001	2676.4406	0
TPM3+F+G4	-1181.912	2461.8241	0	2470.8981	0	2676.4501	0
TPM3u+F+G4	-1181.9137	2461.8274	0	2470.9015	0	2676.4534	0
TIM3+F+R2	-1175.5347	2453.0694	-0.0007	2462.9281	-0.0006	2676.4556	0
K3Pu+F+G4	-1181.9327	2461.8654	0	2470.9395	0	2676.4915	0
TPM2+F+R2	-1178.7746	2457.5491	-0.0001	2467.0111	-0.0001	2676.5553	0
TPM3u+F+R2	-1178.8669	2457.7338	-0.0001	2467.1958	-0.0001	2676.74	0
TPM3+F+R2	-1178.8732	2457.7464	-0.0001	2467.2084	-0.0001	2676.7525	0
TIM2+F+R2	-1175.7409	2453.4817	-0.0006	2463.3405	-0.0005	2676.868	0
K3Pu+F+R2	-1178.9408	2457.8815	-0.0001	2467.3435	-0.0001	2676.8876	0
TIM+F+R2	-1175.9916	2453.9832	-0.0005	2463.842	-0.0004	2677.3695	0
TPM2u+F+I+G4	-1180.194	2460.388	0	2469.85	0	2679.3942	0
TPM2+F+I+G4	-1180.2041	2460.4083	0	2469.8703	0	2679.4144	0
TPM3u+F+I+G4	-1180.2459	2460.4918	0	2469.9538	0	2679.498	0
TPM3+F+I+G4	-1180.2504	2460.5009	0	2469.9628	0	2679.507	0
K3Pu+F+I+G4	-1180.3007	2460.6015	0	2470.0634	0	2679.6076	0
GTR+F+I+G4	-1170.9259	2447.8519	-0.0098	2458.531	-0.0052	2679.9984	0
GTR+F+G4	-1175.1065	2454.2131	-0.0004	2464.4775	-0.0003	2681.9795	0
TN+F+R3	-1175.9161	2455.8322	-0.0002	2466.0967	-0.0001	2683.5986	0
HKY+F+R3	-1179.1746	2460.3491	0	2470.2079	0	2683.7354	0
TVM+F+I	-1180.4747	2462.9494	0	2472.8081	0	2686.3356	0
TVM+F+G4	-1181.4378	2464.8757	0	2474.7344	0	2688.2619	0
TIM3+F+R3	-1175.1783	2456.3567	-0.0001	2467.0358	-0.0001	2688.5032	0
GTR+F+R2	-1175.4406	2456.8812	-0.0001	2467.5603	-0.0001	2689.0277	0
TIM2+F+R3	-1175.4827	2456.9654	-0.0001	2467.6445	-0.0001	2689.1119	0
TPM2u+F+R3	-1178.6931	2461.3862	0	2471.6506	0	2689.1526	0
TPM2+F+R3	-1178.7349	2461.4699	0	2471.7343	0	2689.2362	0
TVM+F+R2	-1178.7907	2461.5813	0	2471.8457	0	2689.3477	0
TPM3u+F+R3	-1178.8517	2461.7033	0	2471.9677	0	2689.4697	0
TPM3+F+R3	-1178.8592	2461.7185	0	2471.9829	0	2689.4848	0
K3Pu+F+R3	-1178.8826	2461.7652	0	2472.0297	0	2689.5316	0



TIM+F+R3	-1175.925	2457.8499	-0.0001	2468.529	0	2689.9964	0
TVM+F+I+G4	-1180.0756	2464.1513	0	2474.4157	0	2691.9177	0
TN+F	-1193.8164	2483.6329	0	2492.3279	0	2693.8788	0
HKY+F	-1197.3396	2488.6791	0	2497.0038	0	2694.5449	0
TIM2+F	-1193.3463	2484.6925	0	2493.7666	0	2699.3185	0
TPM2u+F	-1196.7916	2489.5832	0	2498.2782	0	2699.8291	0
TPM2+F	-1196.7942	2489.5884	0	2498.2834	0	2699.8343	0
TIM+F	-1193.8106	2485.6211	0	2494.6952	0	2700.2471	0
TIM3+F	-1193.8113	2485.6225	0	2494.6966	0	2700.2485	0
TPM3u+F	-1197.3126	2490.6251	0	2499.3201	0	2700.871	0
TPM3+F	-1197.3128	2490.6256	0	2499.3206	0	2700.8715	0
K3Pu+F	-1197.3329	2490.6658	0	2499.3608	0	2700.9117	0
GTR+F+R3	-1175.3725	2460.7449	0	2472.2805	0	2701.6517	0
TVM+F+R3	-1178.6738	2465.3476	0	2476.4504	0	2701.8742	0
GTR+F	-1192.9963	2487.9926	0	2497.8513	0	2711.3788	0
TVM+F	-1196.4562	2492.9125	0	2502.3745	0	2711.9186	0
TNe+I	-1225.3139	2542.6279	0	2550.591	0	2744.1135	0
TIM3e+I	-1224.5634	2543.1269	0	2551.4516	0	2748.9926	0
K2P+I	-1231.0075	2552.0151	0	2559.6254	0	2749.1206	0
TIMe+I	-1225.1022	2544.2043	0	2552.529	0	2750.0701	0
TIM2e+I	-1225.1633	2544.3265	0	2552.6512	0	2750.1923	0
K2P+G4	-1231.6317	2553.2634	0	2560.8737	0	2750.3689	0
TNe+I+G4	-1225.3918	2544.7835	0	2553.1083	0	2750.6493	0
TNe+G4	-1229.498	2550.996	0	2558.9592	0	2752.4817	0
K2P+I+G4	-1230.8299	2553.6598	0	2561.623	0	2755.1455	0
K2P+R2	-1230.9282	2553.8564	0	2561.8196	0	2755.3421	0
K3P+I	-1230.984	2553.968	0	2561.9312	0	2755.4536	0
TIM3e+I+G4	-1224.6616	2545.3232	0	2554.0182	0	2755.5691	0
TIMe+I+G4	-1225.1262	2546.2525	0	2554.9475	0	2756.4984	0
TIM2e+I+G4	-1225.1843	2546.3686	0	2555.0636	0	2756.6145	0
K3P+G4	-1231.6092	2555.2183	0	2563.1815	0	2756.7039	0
TIM2e+G4	-1228.7568	2551.5135	0	2559.8383	0	2757.3793	0

AIC, w-AIC: Akaike information criterion scores and weights.

AICc, w-AICc: Corrected AIC scores and weights.

BIC, w-BIC: Bayesian information criterion scores and weights.

Table S4. Results of ModelFinder in nuclear genes: list of best-fit models per partition.

Gene	Model	LogL	AIC	w-AIC	AICc	w-AICc	BIC	w-BIC
EF1 α	F81+F	-453.5199	915.0397	0	915.1628	0	930.2361	0
LR	JC	-707.3956	1416.7911	0	1416.799	0	1421.0256	0
Wg	F81+F	-530.1642	1068.3283	0	1068.4339	0	1084.1309	0

AIC, w-AIC: Akaike information criterion scores and weights.

AICc, w-AICc: Corrected AIC scores and weights.

BIC, w-BIC: Bayesian information criterion scores and weights.

**Table S5.** Inter- and intraspecific genetic divergence (p-distance) of multiple species in the genus *Dolichoderus*.

Species	Number of sequences	Mean minimum interspecific distance	Mean maximum intraspecific distance
<i>D. attelaboides</i>	2	0.197	0.093
<i>D. bispinosus</i>	102	0.18	0.23
<i>D. germaini</i>	2	0.091	0
<i>D. imitator</i>	2	0.198	0.145
<i>D. lutosus</i>	3	0.17	0.111
<i>D. mariae</i>	20	0.101	0.013
<i>D. quadripunctatus</i>	12	0.033	0.004
<i>D. rugocapitus</i>	146	0.104	0.004
<i>D. sibiricus</i>	4	0.04	0.082
<i>D. taschenbergi</i>	9	0.116	0.224
<i>D. validus</i>	2	0.176	0.003
<i>D. voraginosus</i>	1	0.091	NA
<i>D. bidens</i>	1	0.16	NA
<i>D. debilis</i>	1	0.059	NA
<i>D. decollatus</i>	1	0.193	NA
<i>D. diversus</i>	1	0.147	NA
<i>D. feae</i>	1	0.181	NA
<i>D. flatidorsus</i>	1	0.032	NA
<i>D. ghilianii</i>	1	0.177	NA
<i>D. incisus</i>	1	0.105	NA
<i>D. inermis</i>	1	0.182	NA
<i>D. lamitus</i>	1	0.184	NA
<i>D. pilosus</i>	1	0.159	NA
<i>D. quadridenticulatus</i>	1	0.154	NA
<i>D. rugosus</i>	1	0.227	NA
<i>D. taprobanae</i>	1	0.032	NA
Average		0.134	0.083
95% CI		(0.047–0.082)	(0.024–0.141)

**Fig S1.** (A) The full-face view of *Dolichoderus cf. affinis* (Dt41-SGP); (B) the lateral view of *Dolichoderus cf. affinis* (Dt41-SGP).