

BarcodingR Supporting Information: Appendix S3 and S4

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Table 1: Appendix S3: Species identified using *barcoding.spe.identify* for Tebitan moth species (Jin et al 2013).

No.	queIDs	spe.Identified	bp.prob
1	BM0901017T, Noctuidae Auchmis saga saga	Noctuidae <i>Auchmis saga</i>	0.9858
2	BM0901019T, Noctuidae Auchmis saga	Noctuidae <i>Auchmis saga</i>	0.9858
3	ML0829137T, Noctuidae Cucullia spproblematic	Noctuidae <i>Cucullia spproblematic</i>	0.9648
4	SN0906017M, Noctuidae Helicoverpa armigera	Noctuidae <i>Helicoverpa armigera</i>	0.9180
5	ML0829139T, Noctuidae Polia mortua	Noctuidae <i>Polia mortua</i>	0.9827
6	RKZ0908016T, Noctuidae Anarta trifolii	Noctuidae <i>Anarta trifolii</i>	0.9877
7	RKZ0908014T, Noctuidae Anarta trifolii	Noctuidae <i>Anarta trifolii</i>	0.9877
8	ML0829011M, Noctuidae Phlogophora subpurpurea	Noctuidae <i>Phlogophora subpurpurea</i>	0.9902
9	RKZ0908008T, Noctuidae Atrachea spproblematic	Noctuidae <i>Atrachea spproblematic</i>	0.9649
10	ML0829004M, Noctuidae Diarsia sp3problematic	Noctuidae <i>Diarsia sp3problematic</i>	0.9676
11	Z0907058T, Noctuidae Perissandria sheljuzhkoiAcuta	Noctuidae <i>Perissandria sheljuzhkoiAcuta</i>	0.9768
12	JZ0907053M, Noctuidae Perissandria ficta	Noctuidae <i>Perissandria sikkima</i>	0.9727
13	ML0829149T, Noctuidae Perissandria sikkima	Noctuidae <i>Perissandria sikkima</i>	0.9797
14	LS0909049R, Noctuidae Xestia cnigrum	Noctuidae <i>Xestia cnigrum</i>	0.9943
15	LS0909033R, Noctuidae Xestia cnigrum	Noctuidae <i>Xestia cnigrum</i>	0.9943
16	LS0909051R, Noctuidae Xestia cnigrum	Noctuidae <i>Xestia cnigrum</i>	0.9943
17	ML0829099T, Noctuidae Xestia cnigrum	Noctuidae <i>Xestia cnigrum</i>	0.9952
18	ML0829103T, Noctuidae Xestia cnigrum	Noctuidae <i>Xestia cnigrum</i>	0.9932
19	BM0831016T, Noctuidae Xestia cnigrum	Noctuidae <i>Xestia cnigrum</i>	0.9952
20	ML0829113T, Noctuidae Xestia cnigrum	Noctuidae <i>Xestia cnigrum</i>	0.9952
21	ML0829110T, Noctuidae Xestia cnigrum	Noctuidae <i>Xestia cnigrum</i>	0.9952
22	LS0909050M, Noctuidae Athethis spn	Noctuidae <i>Xestia cnigrum</i>	0.9918
23	LS0909075T, Noctuidae Athethis spn	Noctuidae <i>Athethis spn</i>	0.9945
24	LS0909074T, Noctuidae Athethis spn	Noctuidae <i>Athethis spn</i>	0.9925
25	BM0901040T, Noctuidae Athethis spn	Noctuidae <i>Athethis spn</i>	0.9936
26	BM0901050T, Noctuidae Athethis spn	Noctuidae <i>Athethis spn</i>	0.9950
27	BSC0902026M, Noctuidae Hermonassa sp	Noctuidae <i>Hermonassa sp</i>	0.9686
28	BSC0902032M, Noctuidae Hermonassa spn	Noctuidae <i>Hermonassa spn</i>	0.9614
29	ML0829144M, Noctuidae Agrotis justa	Noctuidae <i>Agrotis justa</i>	0.9664
30	JZ0907026M, Noctuidae Agrotis scotacra	Noctuidae <i>Agrotis scotacra</i>	0.9679
31	BM0830066T, Noctuidae Agrotis macrobscura	Noctuidae <i>Agrotis macrobscura</i>	0.9904
32	BM0901041T, Noctuidae Agrotis macrobscura	Noctuidae <i>Agrotis macrobscura</i>	0.9904
33	RKZ0908013T, Noctuidae Euxoa kotzschii	Noctuidae <i>Euxoa kotzschii</i>	0.9670
34	JZ0907036T, Noctuidae Euxoa sp1problematic	Noctuidae <i>Euxoa sp1problematic</i>	0.9917
35	JZ0907040T, Noctuidae Euxoa sp1problematic	Noctuidae <i>Euxoa sp1problematic</i>	0.9917
36	JZ0907024T, Noctuidae Euxoa sp1problematic	Noctuidae <i>Euxoa sp1problematic</i>	0.9917
37	SN0906014T, Noctuidae Dichagyris astigmata	Noctuidae <i>Dichagyris astigmata</i>	0.9920
38	SN0906009T, Noctuidae Dichagyris astigmata	Noctuidae <i>Dichagyris astigmata</i>	0.9927
39	SN0906013T, Noctuidae Dichagyris astigmata	Noctuidae <i>Dichagyris astigmata</i>	0.9927
40	SN0906042T, Noctuidae Dichagyris astigmata	Noctuidae <i>Dichagyris astigmata</i>	0.9893
41	BSC0902025T, Noctuidae unknown1 sp1problematic	Noctuidae <i>unknown1 sp1problematic</i>	0.9690
42	JZ0907042M, Noctuidae Atrachea parvispina	Noctuidae <i>Atrachea parvispina</i>	0.74894
43	JZ0907045T, Noctuidae Apamea lateritiaObfuscate	Noctuidae <i>Apamea lateritiaObfuscate</i>	0.9812
44	JZ0907027T, Noctuidae Blepharosis spproblematic	Noctuidae <i>Blepharosis spproblematic</i>	0.9742
45	JZ0907056M, Noctuidae Blepharosis paspa	Noctuidae <i>Blepharosis paspa</i>	0.9814
46	JZ0907004T, Noctuidae Macdunnoughia crassisigna	Noctuidae <i>Macdunnoughia crassisigna</i>	0.9840
47	ML0829117T, Noctuidae Macdunnoughia crassisigna	Noctuidae <i>Macdunnoughia crassisigna</i>	0.9899
48	ML0829118T, Noctuidae Macdunnoughia crassisigna	Noctuidae <i>Macdunnoughia crassisigna</i>	0.9899
49	JZ0907007T, Noctuidae Macdunnoughia crassisigna	Noctuidae <i>Macdunnoughia crassisigna</i>	0.9929
50	BM0901014T, Noctuidae Ephesia butleri	Noctuidae <i>Ephesia butleri</i>	0.9935
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59	BM0901048B, Noctuidae Apamea devastator	Noctuidae <i>Apamea devastator</i>	0.8833

Table 2: Appendix S4: Species identified using *barcoding.spe.identify2* for pine moth species
ITS1 barcodes Dai et al. 2012.

No.	queIDs	spe.Identified	FMF
1	B13,Lasiocampidae Dendrolimus punctatus	<i>Dendrolimus tabulaeformisTsai</i>	1.0000
2	MW02,Lasiocampidae Dendrolimus punctatus	<i>Dendrolimus punctatus</i>	0.0000
3	MW08,Lasiocampidae Dendrolimus punctatus	<i>Dendrolimus spectabilisButler</i>	0.0000
4	CS04,Lasiocampidae Dendrolimus spectabilisButler	<i>Dendrolimus spectabilisButler</i>	0.0000
5	LY07,Lasiocampidae Dendrolimus superans	<i>Dendrolimus superans</i>	0.9530
6	SM11,Lasiocampidae Dendrolimus kikuchiiMatsumura	<i>Dendrolimus kikuchiiMatsumura</i>	0.9852
7	SM14,Lasiocampidae Dendrolimus kikuchiiMatsumura	<i>Dendrolimus kikuchiiMatsumura</i>	0.9984
8	WS04,Lasiocampidae Dendrolimus wenshanensis	<i>Dendrolimu stabulaeformisTsai</i>	0.0000
9	YN08,Lasiocampidae Dendrolimus houiLajonquiere	<i>Dendrolimu shouiLajonquiere</i>	0.9621
10	YN11,Lasiocampidae Dendrolimus houiLajonquiere	<i>Dendrolimu shouiLajonquiere</i>	1.0000
11	YS30,Lasiocampidae Dendrolimus tabulaeformisTsai	<i>Dendrolimus spectabilisButler</i>	0.0000
12	YS33,Lasiocampidae Dendrolimus tabulaeformisTsai	<i>Dendrolimus tabulaeformisTsai</i>	1.0000
13	YS36,Lasiocampidae Dendrolimus tabulaeformisTsai	<i>Dendrolimus tabulaeformisTsai</i>	0.0000