

Supplementary 1. Distribution, code and accessory number of species analyzed in this study

Species	Distribution*	Code	COI	COII	16S	12S	ND1
<i>Amyntas carnosus hainanicus</i>	HN-LM	HN201115-01	JX315409	JX315423	JX315376	JX315385	JX315442
<i>Amyntas cluzeaui</i>	HN-WZ	HN201113-04	JX126728	JX126732	JX126720	JX126724	JX126736
<i>Amyntas diaoluomontis</i>	HN-DL	HN201010-01	JX073671	JX073673	JX073672	JX081531	JX073678
<i>Amyntas endophilus</i>	HN-DL	HN201011-03	JQ911673	JX081516	JQ911674	JX081538	JX081517
<i>Amyntas gracilis</i>	HN-DL	HN201007L-01	JX315343	JX315351	JX196393	JX315358	JX315365
<i>Amyntas homosetus</i>	HN-DL	HN201019-02	JX315342	JX315349	JX196394	JX315356	JX315363
<i>Amyntas instabilis instabilis</i>	HN-JF	HN201101-03	JX126727	JX126731	JX126719	JX126723	JX126735
<i>Amyntas instabilis minusculus</i>	HN-WZ	HN201111-03	JX069938	JX081521	JX081528	JX081535	JX081522
<i>Amyntas prominulus</i>	HN-DL	HN201004-03	JX315417	JX315436	JX315370	JX315396	JX315452
<i>Amyntas limpidoides</i>	HN-DL	HN201010-03	JQ994482	JX315435	JX315404	1548664	JX315455

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<i>Amyntas limumontis</i>	HN-WZ	HN201113-02	JX315415	JX315424	JX315375	JX315386	JX315443
<i>Amyntas lingshuiensis</i>	HN-JF	HN201102-03	JX081512	JX081511	JX081513	JX081534	JX081514
<i>Amyntas mirifius</i>	HN-JF	HN201103-02	JQ905265	JX315430	JX315373	JX315393	JX315450
<i>Amyntas octopapillatus</i>	HN-DL	HN201005-01	JX081510	JX081509	JX081508	JX081539	JX073674
<i>Amyntas perarboreus</i>	HN-JF	HN201108-02	JX126729	JX126733	JX126721	JX126725	JX126737
<i>Amyntas plesiopapillatus</i>	HN-JF	HN201107-02	1548675	JX315429	JX315374	JX315392	JX315449
<i>Amyntas pluvivus</i>	HN-DL	HN201002-02	JX069936	JX315432	JX315405	1549215	JX315453
<i>Amyntas latus</i>	HN-DL	HN201009-03	JX315416	JX315433	JX315371	JX315394	JX315451
<i>Amyntas pulvinus</i>	HN-LM	HN201115-08	JQ905266	JX315420	JX315378	JX315382	JX315439
<i>Amyntas qionghongensis minusculus</i>	HN-LM	HN201115-07	JX315408	JX315421	JX315381	JX315383	JX315440
<i>Amyntas qionghongensis qionghongensis</i>	HN-LM	HN201114-02	JX069937	JX081519	JX081527	JX081536	JX081523

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<i>Amyntas rudimentalis</i>	HN-LM	HN201115-06	JX069934	JX315422	JX315377	JX315384	JX315441
<i>Amyntas setolaxus</i>	HN-DL	HN201012-03	JX069935	JX315434	JX315372	JX315395	JX315454
<i>Amyntas stricosus</i>	HN-JF	HN201104-04	JX315345	JX315352	JX196396	JX315359	JX315366
<i>Amyntas trapezoides</i>	HN-JF	HN201108-01	JX315346	JX315353	JX196397	JX315360	JX315367
<i>Amyntas wuzhimontis</i>	HN-WZ	HN201109-07	JQ982487	JX081520	JX081525	JX081533	JX081524
<i>Amyntas zhangii</i>	HN-DL	HN201006-01	JX073676	JX073677	JX073675	JX081532	JX081515
<i>Amyntas zonarius</i>	HN-LM	HN201114-06	JQ982486	JX081530	JX081526	JX081537	JX081529
<i>Metaphire californica</i>	HN-JF	HN201034-02	JX315343	JX315350	JX196395	JX315357	JX315364
<i>Metaphire magna magna</i>	HN-WZ	HN201112-01	JX315348	JX315355	JQ904534	JX315362	JX315369
<i>Metaphire magna minusculus</i>	HN-LM	HN201116-01	JX315347	JX315354	JQ904533	JX315361	JX315368
<i>Amyntas</i> 2011-01	HN-JF	HN201102-01	JX315414	JX315431	JX315399	JX315391	JX315448

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<i>Amyntas</i> 2011-02	HN-WZ	HN201109-02	JX315413	JX315428	JX315400	JX315390	JX315447
<i>Amyntas</i> 2011-03	HN-WZ	HN201111-01	JX315412	JX315427	JX315401	JX315389	JX315446
<i>Amyntas</i> 2011-05	HN-WZ	HN201112-02	JX315411	JX315426	JX315402	JX315388	JX315445
<i>Amyntas</i> 2011-06	HN-WZ	HN201113-01	JX315410	JX315425	JX315403	JX315387	JX315444
<i>Amyntas aspergillum</i>	GD		JX315419	JX315438	JX315379	JX315398	JX315456
<i>Amyntas mediocus</i>	GD		JX315418	JX315437	JX315380	JX315397	JX315457
<i>Amyntas fengkaiensis</i>	GD	Supplied by Jiang JB					
<i>Metaphire xingningensis</i>	GD	Supplied by Jiang JB					
<i>Amyntas redactus</i>	GD	Supplied by Jiang JB					
<i>Lumbricus terrestris</i>			JN869946.1	JN869613.1	JN869833.1	JN869716.1	NC_001673.1

*HN-Hainan Island; GD-Guangdong province; LM-Limu Mountain; DL-Diaoluo Mountain; WZ- Wuzhi Mountain; JF-Jianfengling