

SUPPLEMENTARY MATERIALS

Table S1: Polymorphisms detected in P3 (P. x cryptogea related Hybrid) during cloning assays with COXI, TUBULIN 5_6 AND ITS.

A.1) COXI cloning types and percentage of each cloning type, comparison of variable nucleotide positions in the COXI cloning types using P.cryptogea MH136878.1 as a reference in the comparison map. B.1) β -tubulin cloning types and percentage of each cloning type (using BT 5 and 6 primers), comparison of variable nucleotide positions in the β -tubulin cloning types using P. cryptogea MH760166.1 as a reference in the comparison map. C.1) ITS cloning types and percentage of each cloning type, comparison of variable nucleotide positions in the ITS cloning types using P. cryptogea MH178331.1 as a reference in the comparison map.

A.1) COX I MAP TO REFERENCE	P55	P498	P660	P689-P695		P705-P708		P725									
<i>Phytophthora cryptogea</i>																	
<i>P. cryptogea</i> MH136878.1	G	A	T	TCGGTCA		TTAT		C									
Type 1 (50%)	A	A	T	TCGGACA		ATCG		A									
Type 2 (10%)	A	A	C	AATCACT		AGTG		T									
Type 3 (5%)	A	A	T	CACTAGT		GCCG		A									
Type 4 (35%)	A	A	C	TCGGTCA		ATCG/AGTT		A/T									
Hybrid	A	M	T	-----		-----		-									
<i>P. erythroseptica</i> MH136882.1	G	T	T	TCGGTCA		TTAT		C									
<i>P. parsiana</i> HM749282.1	G	T	T	TCGGTCA		TTAT		C									
<i>P. kelmanii</i> KU220616.1	G	A	A	-----		-----		-									
B.1) TUBULIN 5_6 MAP TO REFERENCE	P26	P41	P59	P65	P71	P80	P92	P95	P107	P122	P125	P134	P155	P179	P185	P200	
<i>Phytophthora cryptogea</i>																	
<i>P. cryptogea</i> MH760166.1	C	G	G	C	T	G	T	T	T	G	T	C	T	G	T	G	
Type 1* (57%)	C	G	G	C	C	G	T	T	T	G	T	C	T	G	T	G	
Type 2 (14.29%)	C	G	G	C	T	G	T	T	T	G	T	C	T	G	T	G	
Type 3 (14.29%)	C	G	G	C	C	G	T	T	T	G	T	C	T	G	T	G	
Type 4* (14.29%)	T	C	A	T	G	C	G	C	C	C	C	G	C	C	C	C	
Hybrid (14.29%)	T	A	T	T	G	G	T	T	K	T	T	Y	T	G	Y	S	
<i>P.erythroseptica</i> KX251896.1	C	G	G	C	C	G	T	T	T	G	T	C	T	G	T	G	

<i>Phy. chamaehyphon</i> KJ595448.1	T	C	A	T	G	C	G	C	C	C	C	G	C	C	C	C
	P206	P209	P218	P227	P230	P239	P245	P254	P258	P269	P275	P278	P281	P290	P305	P320
<i>P. cryptogea</i> MH760166.1	T	C	C	C	G	T	G	G	T	T	G	G	G	C	T	T
Type 1	T	C	C	A	G	T	C	G	T	T	G	G	G	T	T	T
Type 2	T	C	C	C	G	T	G	G	T	T	G	G	G	C	T	T
Type 3	T	C	C	A	G	T	C	G	A	T	G	G	G	C	T	T
Type 4	C	G	G	G	C	C	G	C	T	C	C	C	C	C	C	C
Hybrid	T	Y	C	A	R	-	-	R	W	W	R	G	G	-	T	T
<i>P. erythroseptica</i> KX251896.1	T	C	C	A	G	T	C	G	T	T	G	G	G	T	T	T
<i>Phy. chamaehyphon</i> KJ595448.1	C	G	G	G	C	C	G	C	T	C	C	C	C	C	C	C
	P323	P329	P335	P338	P344	P366	P368	P374	P377	P407	P422	P431	P440	P446	P447	P449
<i>P. cryptogea</i> MH760166.1	T	C	G	C	T	T	G	G	C	G	C	T	T	T	T	A
Type 1	T	C	G	C	T	C	G	G	C	G	C	T	T	T	T	A
Type 2	T	G	G	C	T	T	G	G	C	G	C	T	T	T	T	A
Type 3	T	C	G	C	T	C	G	G	C	G	C	T	T	T	T	A
Type 4	C	G	C	G	C	C	C	C	G	A	T	G	C	C	C	G
Hybrid	Y	M	G	G	T	S	S	R	C	-	C	W	T	T	T	A
<i>P. erythroseptica</i> KX251896.1	T	C	G	C	T	C	G	G	C	G	T	G	C	C	T	A
<i>Phy. chamaehyphon</i> KJ595448.1	C	G	C	G	C	C	C	C	G	A	T	G	C	C	C	G
	P452	P458	P461	P464	P470	P485	P497	P515	P554	P590	P608					
<i>P. cryptogea</i> MH760166.1	T	G	G	G	C	G	T	G	T	C	C					
Type 1	T	G	G	G	C	G	C	G	T	T	T					
Type 2	T	G	G	G	T	G	T	G	T	C	T					
Type 3	T	G	G	G	C	G	C	G	T	T	T					

Type 4	G	A	C	C	T	C	C	C	-	-	-		
Hybrid	T	R	Y	G	C	A	T	G	T	Y	-		
<i>P. erythroseptica</i> KX251896.1	T	G	G	G	C	G	C	G	T	T	T		
<i>Phy. chamaehyphon</i> KJ595448.1	G	A	C	C	T	C	C	C	G	C	C		
C.1) ITS MAP TO REFERENCE	P52	P78	P88	P104	P107	P212	P530	P632	P681	P695	P759	P764	778
<i>Phytophthora cryptogea</i>													
<i>P. cryptogea</i> MH178331.1	C	T	T	G	T	A	A	G	T	A	T	T	C
Type 1 (4.55%)	C	T	T	G	T	G	A	A	T	A	T	T	C
Type 2 (13.64%)	C	T	T	G	T	A	A	A	T	A	T	T	G
Type 3 (34.09%)	C	T	T	G	T	A	A	G	T	A	T	T	C
Type 4 (6.82%)	C	T	T	A	T	A	G	G	T	A	T	T	C
Type 5 (4.55%)	T	T	T	G	T	A	A	G	T	A	T	T	G
Type 6 (13.64%)	C	A	C	G	T	A	A	A	T	A/G	C	C	C
Type 7 (9.09%)	C	A	C	G	T	A	A	G	T	A	T	T	C
Type 8 (13.64%)	C	A	C	G	C	A	A	A	T/C	A	C	C	C
Hybrid	-	-	-	-	-	A	A	R	T	A	Y	Y	C
<i>P. erythroseptica</i> KJ755119.1	C	A	T	G	T	A	A	G	T	A	C	T	C
<i>P. sansomeana</i> MF149917.1	C	A	T	G	T	A	A	G	T	A	T	C	C
<i>P. kelmanii</i> MN540003.1	C	A	T	G	C	A	A	A	T	A	C	C	C

* Type 4 (Tubulin 5_6), almost identical to Type 1 (Tubulin 5_6) but with polymorphism patterns shown to be closely related to *Phytophthora chamaehyphon*, the pattern is constant along the whole map to reference analysis