

**Table S1.** List of GenBank accessions used to assess areas of DNA polymorphism among *Colletotrichum* spp. (n=1,487). Available as a Microsoft Office Excel spreadsheet.

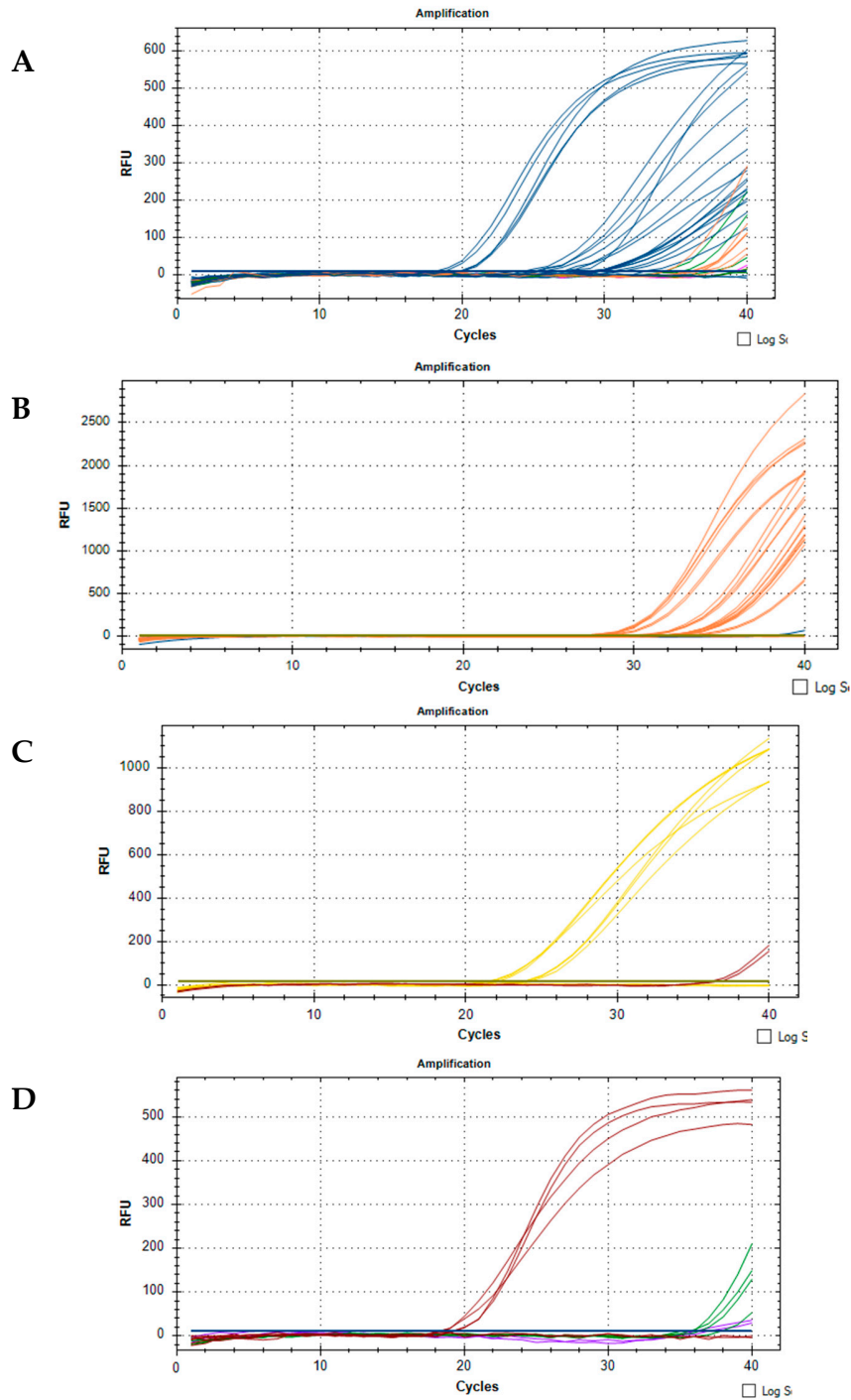
**Table S2.** Highest annealing temperature (°C) at which target and non-target species amplified for each primer-probe set (— = never amplified at any temperature). Target amplifications are in **bold**.

Taxon	CHLAD	FICAL	FRLAD	GLG	HEAP	NOLAD	NYMG	SIAP	THTUB
<i>Colletotrichum acutatum</i> species complex									
<i>C. acutatum</i> s.s.	—	60	—	—	—	—	—	—	—
<i>C. fioriniae</i>	72	<b>69</b>	—	—	—	—	69	—	—
<i>C. godetiae</i>	—	—	—	—	—	—	—	—	—
<i>C. johnstonii</i>	—	—	—	—	—	—	—	—	—
<i>C. lupini</i>	—	—	—	—	—	—	69	—	—
<i>C. nymphaeae</i>	—	67	—	—	—	68	<b>69</b>	—	—
<i>C. pyricola</i>	—	—	—	—	—	—	—	—	—
<i>C. salicis</i>	—	—	—	—	—	—	—	—	—
<i>Colletotrichum gloeosporioides</i> species complex									
<i>C. chrysophilum</i>	<b>72</b>	67	70	65	—	—	—	—	—
<i>C. fructicola</i>	72	—	<b>70</b>	—	—	—	—	—	—
<i>C. gloeosporioides</i> s.s.	68	67	68	<b>68</b>	—	—	—	—	—
<i>C. henanense</i>	70	—	68	—	<b>65</b>	—	—	—	—
<i>C. kahawae</i> clade	68	—	—	—	—	—	—	—	—
<i>C. noveboracense</i>	—	—	—	67	—	<b>68</b>	—	—	—
<i>C. siamense</i>	68	—	68	67	—	—	69	<b>70</b>	—
<i>C. theobromicola</i>	72	—	—	—	—	—	—	—	<b>65</b>
Other fungi									
<i>Botryosphaeria dothidea</i>	—	—	—	—	—	—	—	—	—
<i>Diaporthe</i> sp.	—	67	—	—	—	—	—	—	—
<i>Diplocarpon coronariae</i>	—	—	—	—	—	—	—	—	—
<i>Erysiphe necator</i>	—	—	—	—	—	—	—	—	—
<i>Neonectria ditissima</i>	—	—	—	—	—	—	—	—	—
<i>Penicillium expansum</i>	—	—	—	—	—	—	—	—	—
<i>Pestalotiopsis maculans</i>	—	—	—	—	—	—	—	—	—
<i>Phomopsis viticola</i>	—	—	—	—	—	—	—	—	—
<i>Plasmopara viticola</i>	—	—	—	—	—	—	—	—	—
Plants									
<i>Malus domestica</i>	—	—	—	—	—	—	—	—	—
<i>Vitis vinifera</i>	—	—	—	—	—	—	—	—	—

**Table S3.** Real-time PCR standard curve Cq values and effect of apple DNA on Cq (NA = no amplification during assay with apple DNA, nt = not tested because it was below LoD).

Species	Primer-probe set	[DNA] (ng/ $\mu$ L)	Cq mean $\pm$ SD	Ratio fungal DNA: apple DNA	Cq mean $\pm$ SD
<i>C. chrysophilum</i>	CHLAD	1	24.09 $\pm$ 0.04	1:1	22.92 $\pm$ 2.48
		0.1	27.44 $\pm$ 0.16	1:10	28.81 $\pm$ 1.54
		0.05	28.35 $\pm$ 0.14	1:20	29.31 $\pm$ 1.01
		0.01	31.07 $\pm$ 0.03	1:100	32.74 $\pm$ 0.69
		0.005	32.52 $\pm$ 0.12	1:200	32.28 $\pm$ 0.65
		0.001	34.77 $\pm$ 0.49	1:1,000	38.14 $\pm$ 0.45
		0.0005	37.03 $\pm$ 1.21	1:2,000	NA
<i>C. fioriniae</i>	FICAL	1	25.75 $\pm$ 0.15	1:1	23.51 $\pm$ 0.15
		0.1	28.95 $\pm$ 0.11	1:10	27.46 $\pm$ 0.14
		0.05	29.99 $\pm$ 0.10	1:20	29.20 $\pm$ 0.35
		0.01	32.28 $\pm$ 0.37	1:100	32.15 $\pm$ 0.63
		0.005	34.00 $\pm$ 0.22	1:200	37.46 $\pm$ 0.27
		0.001	35.92 $\pm$ 0.29	1:1,000	37.38 $\pm$ 0.00
		0.0005	36.85 $\pm$ 0.39	1:2,000	36.41 $\pm$ 0.00
<i>C. fructicola</i>	FRLAD	1	32.31 $\pm$ 0.17	1:1	31.15 $\pm$ 0.07
		0.1	34.95 $\pm$ 0.76	1:10	34.27 $\pm$ 0.29
		0.05	36.08 $\pm$ 0.66	1:20	35.35 $\pm$ 0.21
		0.01	38.09 $\pm$ 0.74	1:100	38.37 $\pm$ 1.52
		0.005	39.32 $\pm$ 0.83	1:200	37.62 $\pm$ 0.00
		0.001	NA	1:1,000	nt
		0.0005	NA	1:2,000	nt
<i>C. gloeosporioides</i>	GLG	1	22.35 $\pm$ 0.22	1:1	22.58 $\pm$ 0.20
		0.1	25.92 $\pm$ 0.18	1:10	25.65 $\pm$ 0.30
		0.05	26.45 $\pm$ 0.28	1:20	26.58 $\pm$ 0.55
		0.01	28.2 $\pm$ 0.17	1:100	29.99 $\pm$ 0.39
		0.005	29.16 $\pm$ 0.34	1:200	31.51 $\pm$ 0.70
		0.001	31.57 $\pm$ 0.55	1:1,000	NA
		0.0005	31.90 $\pm$ 0.52	1:2,000	NA
<i>C. henanense</i>	HEAP	1	23.54 $\pm$ 0.14	1:1	22.83 $\pm$ 0.12
		0.1	27.06 $\pm$ 0.15	1:10	26.60 $\pm$ 0.18
		0.05	27.86 $\pm$ 0.22	1:20	27.48 $\pm$ 0.17
		0.01	30.85 $\pm$ 0.23	1:100	31.58 $\pm$ 0.26
		0.005	31.32 $\pm$ 0.14	1:200	31.32 $\pm$ 0.60
		0.001	34.40 $\pm$ 1.01	1:1,000	34.41 $\pm$ 0.52
		0.0005	34.89 $\pm$ 0.48	1:2,000	34.87 $\pm$ 0.18

<i>C. noveboracense</i>	NOLAD	1	25.30 ± 0.86	1:1	25.10 ± 0.46
		0.1	29.11 ± 0.14	1:10	28.67 ± 0.25
		0.05	30.48 ± 0.17	1:20	29.86 ± 0.26
		0.01	32.64 ± 0.31	1:100	32.08 ± 0.26
		0.005	33.96 ± 0.28	1:200	33.53 ± 0.47
		0.001	36.22 ± 0.31	1:1,000	34.94 ± 0.00
		0.0005	36.73 ± 1.22	1:2,000	nt
		<i>P</i> = 0.05563			
<i>C. nymphaeae</i>	NYMG	1	23.84 ± 0.31	1:1	23.58 ± 0.10
		0.1	27.03 ± 0.06	1:10	27.22 ± 0.06
		0.05	28.33 ± 0.09	1:20	28.22 ± 0.13
		0.01	30.72 ± 0.42	1:100	30.79 ± 0.27
		0.005	31.94 ± 0.34	1:200	33.16 ± 0.53
		0.001	35.40 ± 2.46	1:1,000	35.36 ± 0.45
		0.0005	36.53 ± 1.08	1:2,000	NA
		<i>P</i> = 0.44967			
<i>C. siamense</i>	SIAP	1	23.72 ± 0.18	1:1	23.33 ± 0.35
		0.1	26.89 ± 0.44	1:10	26.63 ± 0.29
		0.05	27.95 ± 0.08	1:20	27.58 ± 0.24
		0.01	30.28 ± 0.19	1:100	31.11 ± 0.08
		0.005	32.08 ± 0.04	1:200	32.41 ± 0.60
		0.001	34.06 ± 0.93	1:1,000	35.60 ± 1.71
		0.0005	35.30 ± 0.81	1:2,000	35.20 ± 0.00
		<i>P</i> = 0.44250			
<i>C. theobromicola</i>	THTUB	1	28.81 ± 0.17	1:1	29.35 ± 0.36
		0.1	31.78 ± 0.23	1:10	31.71 ± 0.50
		0.05	32.59 ± 0.22	1:20	33.71 ± 0.41
		0.01	36.41 ± 1.37	1:100	35.97 ± 0.75
		0.005	37.07 ± 1.36	1:200	37.44 ± 1.07
		0.001	NA	1:1,000	nt
		0.0005	NA	1:2,000	nt
		<i>P</i> = 0.31748			



**Figure S1.** Amplification plots showing high C<sub>q</sub> values and low RFU values of non-specific amplifications: A) CHLAD primer-probe set, B) FRLAD, C) NOLAD, and D) NYMG. Blue = *C. chrysophilum* (A, B), green = *C. fioriniae* (A, D), orange = *C. fructicola* (A, B), purple = *C. lupini* (D), yellow = *C. noveboracense* (C), dark red = *C. nymphaeae* (C, D), and pink = *C. theobromicola* (A). No-template controls are in the target species color.

	5'	CHLADF2	22 bp	CHLADP	59 bp	CHLADR	3'
<u><i>C. chrysophilum</i></u>							
<i>C. aenigma</i>							
<i>C. camelliae</i>							
<i>C. fruticicola</i>							
<i>C. gloeosporioides</i>							
<i>C. noveboracense</i>							
<i>C. nupharicola</i>							
<i>C. siamense</i>							
<i>C. theobromicola</i>							
<i>C. tropicale</i>							
<i>C. viniferum</i>							
<u><i>C. fioriniae</i></u>	5'	FICALF	101 bp	FICALP	3 bp	FICALR	3'
<i>C. acutatum</i>							
<i>C. aenigma</i>							
<i>C. chrysophilum</i>							
<i>C. conoides</i>							
<i>C. fruticicola</i>							
<i>C. gloeosporioides</i>							
<i>C. henanense</i>							
<i>C. hymenocallidis</i>							
<i>C. nymphaeae</i>							
<i>C. siamense</i>							
<i>C. theobromicola</i>							
<u><i>C. fruticicola</i></u>	5'	FRLADF2	22 bp	FRLADP	59 bp	FRLADR	3'
<i>C. aenigma</i>							
<i>C. camelliae</i>							
<i>C. chrysophilum</i>							
<i>C. gloeosporioides</i>							
<i>C. noveboracense</i>							
<i>C. nupharicola</i>							
<i>C. siamense</i>							

<i>C. theobromicola</i>	T- <b>ACACAT</b> CAGGAGTTTCT <b>CTTCTCGG</b> ...AACACCAGTCGCCTT <b>GACGTGG</b> ...GTCGGCG <b>GGTGACGACGAGCGAGGGGTT</b> CGGCAGC
<i>C. tropicale</i>	<b>CGTCATGACTGAAA-TCGTGGCGTGTC</b> ...AACACCAGTCGCCTT <b>GACGTGG</b> ... <b>ATCGGCCGT</b> TACC <b>ACTAGCGAAGGGTT</b> CGG <b>CAAG</b>
<i>C. viniferum</i>	<b>TGTCATGACTGGAGCTTCCGAGGTCTC</b> ...AACACCAGTCGCCTT <b>GACGTGG</b> ... <b>ATCGGCCGT</b> GACCACC <b>AGTGAAGGGTT</b> CGG <b>CAAG</b>

	5'	GLGF	45 bp	GLGP	5 bp	GLGR	3'
<u><i>C. gloeosporioides</i></u>	CTCCAAGCTCGWCATGACTTCAC...		GCCGCCCGCGTTTAGTACAC...		GGCCATYATGAATTAATGCCAATTGAAATC		
<i>C. aenigma</i>	CTCCAA <b>ACT</b> CGCCATGACTTCAC...		GCC <b>ACCC</b> CGCGTTT <b>GGTAAAC</b> ...		GGC <b>AGT</b> CATGAAT <b>GGAGG</b> CCAATTGAAACC		
<i>C. alienum</i>	CTCCAA <b>ACT</b> CGCCATGACTTCAC...		GCC <b>ACCC</b> CGCGTTT <b>GGTAAAC</b> ...		GGCC <b>GTC</b> ATGAAT <b>GGAGG</b> CCAATTGAAACC		
<i>C. aotearoa</i>	CTCCAA <b>ACT</b> CGTCATGACT <b>CTCA</b> ...		GCCGCCCGC <b>ATCTGGT</b> AGAC...		GG <b>CTATCTTGA</b> CTTGATGCCAATTGAAACC		
<i>C. camelliae</i>	CTCCAA <b>ACT</b> CGCCATGACTTCGC...		GCC <b>ACCC</b> CGCGTTT <b>GGTAAAT</b> ...		GGCC <b>GTC</b> ATGAAT <b>GGAGG</b> CCAATTGAAACC		
<i>C. chrysophilum</i>	CTCCAA <b>ACT</b> CGCCATGACTTCAC...		GCC <b>ACCC</b> CGCGTTT <b>GGTAAAC</b> ...		GGCC <b>GTC</b> ATGAAT <b>GGAGG</b> CCAATTGAAACC		
<i>C. conoides</i>	CT <b>GCAA</b> <b>ACT</b> CGCCATGACTTCAC...		GCC <b>ACCC</b> CGCGTTT <b>GGTAAAC</b> ...		GGC <b>AGT</b> CATGAAT <b>GGAGG</b> CCAATTGAAACC		
<i>C. fructicola</i>	CTCCAA <b>ACT</b> CGCCATGACTTCAC...		GCC <b>ACCC</b> CGCGTTT <b>GGTAAAT</b> ...		GGCC <b>GTC</b> ATGAAT <b>GGAGG</b> CCAATTGAAACC		
<i>C. henanense</i>	CTCCAA <b>ACT</b> CGTCATGACT- <b>CTC</b> ...		GCCGCCCGC <b>ATCTGGT</b> AGAC...		GG <b>CTATCTGTGA</b> CTTGATGCCAATTGAAACC		
<i>C. musae</i>	CTCCAA <b>ACT</b> CGCCATGACTTCAC...		GCC <b>ACCC</b> CGCGTTT <b>GGTAAAT</b> ...		GGCC <b>GTC</b> ATGAAT <b>GGAGG</b> CCAATTGAAACC		
<i>C. queenslandicum</i>	CTCCAA <b>ACT</b> CGCCATGACTTCAC...		GCC <b>ACCC</b> CGCGTTT <b>GGTAAAC</b> ...		GGCC <b>GTC</b> ATGAAT <b>GGAGG</b> CCAATTGAAACC		
<i>C. siamense</i>	CTCCAA <b>ACT</b> CGCCATGACTTCAC...		GCC <b>ACCC</b> CGCGTTT <b>GGTAAAC</b> ...		GGCC <b>GTC</b> ATGAAT <b>GGAGG</b> CCAATTGAAACC		
<i>C. theobromicola</i>	CTCCAA <b>ACT</b> CGCC <b>ACT</b> ACTTCAC...		<b>CCCGCCTGTATTTGGCAGAC</b> ...		GGCCA <b>ACATGAATTGAT</b> GCCAATTGATACC		
<i>C. tropicale</i>	CTCCAA <b>AA</b> TCGCCATGACTTCAC...		GCC <b>ACCC</b> CGCGTTT <b>GGTAAAT</b> ...		GGCC <b>GTC</b> ATGAAT <b>GGAGG</b> CCAATTGAAACC		

	5'	HEAPF	19 bp	HEAPP	50 bp	HEAPR	3'
<u><i>C. henanense</i></u>	TGACTTGGTCATCGATTTCGTTCCCG...		CCTTGCGCCAGAAACCAACCCACCT...		CGAATCGAGAACCATCCTCGC		
<i>C. aenigma</i>	<b>TCGTTCGATTC</b> ----- <b>ACTTCCCG</b> ...		C- <b>CTGCGCGAGAAACCAACAGACCT</b> ...		<b>GGAACCAAGAATCATCCTGGA</b>		
<i>C. aeshynomenes</i>	<b>TCATTCGATTC</b> ----- <b>TTTGCCG</b> ...		CC <b>CTGCGACCAGAAAACAACAGACCT</b> ...		<b>GGAACCAAGAATCATCCTGGC</b>		
<i>C. alatae</i>	<b>TCATCAGTTC</b> ----- <b>CATTCCCG</b> ...		CC <b>CTGCGCCAGAAACCAACAGATCT</b> ...		<b>TGAATCAAGAATCATCCTGGG</b>		
<i>C. alienum</i>	<b>TCGTTCGATTC</b> ----- <b>ACTTCCCG</b> ...		C- <b>CTGCGCGAGAAACCAACAGACCT</b> ...		<b>GGAACCAAGAGTCATCCTGGA</b>		
<i>C. aotearoa</i>	<b>TCATTCGATTC</b> ----- <b>GCTTCCCG</b> ...		CCTTGCGCCAGAAACCAAC <b>CACACCT</b> ...		<b>CGAACCAAGAACCATCCTGGT</b>		
<i>C. camelliae</i>	<b>TCATTCGATTC</b> ----- <b>GCTTCCCG</b> ...		CCTTGCGCCAGAAACCC <b>CACAAACCT</b> ...		<b>CGAACCAAGAACCATCCTGGT</b>		
<i>C. chrysophilum</i>	<b>TCGTTCGATTC</b> ----- <b>ACTTCCCG</b> ...		C- <b>CTGCGCGAGAAACCAACAGACCT</b> ...		<b>GGAACCAAGAATCATCCTGGA</b>		
<i>C. clidemiae</i>	<b>TCATTCGATTC</b> ----- <b>GCTTCCCG</b> ...		CCTTGCGCCAGAAACCC <b>CACAAACCT</b> ...		<b>CGAACCAAGAACCATCCTGGT</b>		
<i>C. conoides</i>	<b>TCGTTCGATTC</b> ----- <b>ACTTCCCG</b> ...		C- <b>CTGCGCGAGAAACCAACAGACCT</b> ...		<b>GGAACCAAGAATCATCCTGGA</b>		
<i>C. fructicola</i>	<b>TCGTTCGATTC</b> ----- <b>ACTTCCCG</b> ...		C- <b>CTGCGCGAGAAACCAACAGACCT</b> ...		<b>GGAACCAAGAATCATCCTGGA</b>		
<i>C. gloeosporioides</i>	<b>TCATTCGATTC</b> ----- <b>CCTTCCTA</b> ...		CC <b>CTGCGCCGAGAAACCAACAGACCT</b> ...		<b>CGAACCAAGAATCATCCTGGC</b>		
<i>C. horii</i>	<b>TCGTTCGATTC</b> ----- <b>CCTTCCCG</b> ...		<b>CTCTGCGCCAGAGATCAAAAAACCT</b> ...		<b>CAAACCGAGAACCATCCTGGA</b>		
<i>C. jiangxiense</i>	<b>TCATTCGATTC</b> ----- <b>GCTTCCCG</b> ...		CCTTGCGCCAGAAACCC <b>CACAAACCT</b> ...		<b>CGAACCAAGAACCATCCTGGT</b>		
<i>C. musae</i>	<b>TCGTTCGATTC</b> ----- <b>ACTTCCCG</b> ...		C- <b>CTGCGCGAGAAACCAACAGACCT</b> ...		<b>GGAACCAAGAATCATCCTGGA</b>		

<i>C. noveboracense</i>	TCGTCGATTC-----ACTTCCCG...C-CTGCGCGAGAAACCAACAGACCT...GGAACCAAGAATCATCCTGGA
<i>C. perseae</i>	TCGTCGATTC-----ACTTCCCG...C-CTGCGCGAGAAACCAACAGACCT...GGAACCAAGAATCATCCTGGA
<i>C. psidii</i>	TCATCGATTC-----GCTTCGCG...CCTTGCGCCAGAAACCCACAAACCT...CGAACCAAGAACCATCCTGGT
<i>C. queenslandicum</i>	TCATCGATTC-----CCTTCCCG...CCCTGCGCCAGAAACCAATAGACCT...GGACCCAAGAATCATCCTGGC
<i>C. salsolae</i>	CCATCGATTT-----CCTTCCCG...CCCTGCGCCAGAAACCAACAGACCT...GGAACCAAGAATCATCCTGGC
<i>C. siamense</i>	CCATCGATTC-----CCTTCCCG...CCCTGCGCCAGAAACCAACAGACCT...GGAACCAAGAATCATCCTGGC
<i>C. theobromicola</i>	CCAGCAACGC-----CCTTCCCG...CTCCGTGACAGAAACCAACGGGCGT...CAAATCACAACCCACTTGGC
<i>C. ti</i>	TCATCGATTC-----GCTTCCCG...CCTTGTGCCAGAAACCAACACACCT...CGAACCAAGAACCATCCTGGT
<i>C. tropicale</i>	TCATCGATTC-----CCTTCTCG...CCCTGCGCCAGAGACCAACGGGCCT...CGAACCAAGAATCATCCTGGT
<i>C. viniferum</i>	TCGTCGATTC-----ACTTCCCG...C-CTGCGCGAGAAACCAACAGACCT...GGAACCAAGAATCATCCTGGA
<i>C. xanthorrhoeae</i>	TCATCGATTC-----CCTTCCCG...CTCTGCGCCAGAAACCAACAGACCT...CAAATCAAGAACCATCCTGGT

	5'	NOLADF	2 bp	NOLADP	280 bp	NOLADR	3'
<u><i>C. noveboracense</i></u>	GGGGAAGTA-TAGTCAGCGCATTG...	CGTCATGACTGGAATTTGTGATGTTCC...	GTCTGAACGAACGAGAGACGGCGATTA				
<i>C. aenigma</i>	AACGAGGGA-CTGTCAGCGAATTG...	TGTCATGACTGGAGCTTCCGAGGTCTC...	GTCTGAACGAACGAGAGACGGCGATTA				
<i>C. camelliae</i>	GACGAGAGAATTGTCAGCGCATTG...	CGTCGTGACTGGAACCTCCGAGATCTG...	GCCGAGCGAACGAGAGACGACAAATA				
<i>C. chrysophilum</i>	GACGAGAGG-TTGTTCAGCGCATTG...	CATCGTGCTGTAATTTTGATGTTTC...	ATCGAGCGAAGGAGAGACGACAAATC				
<i>C. fructicola</i>	AACGAGGGA-CTGTCAGCGCATTG...	TCTCATGACAGGAGCTTCCGAGATTTTC...	ACCGGGCGAAGGAGGGACGACAAATC				
<i>C. gloeosporioides</i>	GACGAGAGG-TTGTTCAGCGCATTG...	CGTCATGACTGAAA-TTGTGGTGCTTC...	ATCGAGCGAACGAGAGACGACGAGTTC				
<i>C. nupharicola</i>	GGGGAAGTA-TAGTCAGCGCATTG...	CGTCATGACTGGAATTTGTGATGTTCC...	GTCTGAACGAACGAGAGACGGCGATTA				
<i>C. siamense</i>	GACGAGAAG-TTGTTCAGCGCATTG...	CGTCATGACTGAAA-TTGTGGCGTTTC...	ATCGACCGAACGAGAGACGACGAATC				
<i>C. theobromicola</i>	GAGAGGGATGTTGTCAGCGCATTG...	T-ACACATCAGGAGTTTCTCTTCTCGG...	GTCTGAACGAACGAGAGACGACGGATG				
<i>C. tropicale</i>	GACGAGAAG-TTGTTCAGCGCATTG...	CGTCATGACTGAAA-TCGTGGCGTGTC...	ATCGAGCGAAGGAGGGACGACGAATA				
<i>C. viniferum</i>	AACAAGGGA-CTGTCAGCGGATTG...	TGTCATGACTGGAGCTTCCGAGGTCTC...	ATCGACCGAGCGAGAGACGATGAATC				

	5'	NYMGF	54 bp	NYMGP	24 bp	NYMGR	3'
<u><i>C. nymphaeae</i></u>	GATAACACCAGCTTCGTCGATAT--C...	GATTGGGC---TTGTTGTAACGACACG...	GCCGAGACAAAATTGCTGACAGA				
<i>C. acutatum</i>	GATAACACCAGCTTCGTCGGTAC--C...	GATTGGGC---TCGTTGTAATGATGCG...	GCCGAGACAAAATTTGCTGACAGA				
<i>C. cuscatae</i>	GATAACACCAGCTTCGTCATAT--C...	GATTGGGC---TTGTTGTAACAACACG...	GCCGAGACAAAATTGCTGACAGA				
<i>C. fioriniae</i>	AATAACACCAGCTTCATCGGTAA--C...	GATTGGGCTCGTTGTTGTAATGATACG...	GCCCAACAAAATTTGCTGACAGA				
<i>C. kinghornii</i>	ACGATAACACCACCCTACTCGGTAAAC...	GATTGGGC---TCGTTGCAATGGCACG...	CCCAAGACAAAATTTGCTGACAGA				
<i>C. kniphofiae</i>	GATAACACCACCCCAATCGGTAA--C...	GATTGGGC---TTGTTGCAATGGCACAC...	TCCCAAGAAAAATTATTAACAG				
<i>C. lupini</i>	GATAACACCAGCTTCGTCGGTAC--C...	GATTGGGC---TTGTTGTAATGACACG...	GCCGAGACAAAATTGCTGACAGA				
<i>C. orientalis</i>	AATAACACCAGCTTCATCGGTAA--C...	GATTGGGCTCGTTGTTGTAATGATACG...	GCCCAACAAAATTTGCTGACAGA				
<i>C. pyricola</i>	GATAACACCATCCTAATCGGTAA--C...	GATTGGGC---TCGTTGCAATGGCAAG...	TCCGAGACAAAATTTGCTGACAGA				
<i>C. scovillei</i>	GATAACACCAGCTTCGTCGATAT--C...	GATTGGGC---TTGTTGTAACGACACG...	GCCGAGACAAAATTTGCTGACAGA				

	5'	SIAPF	1 bp	SIAPP	96 bp	SIAPR	3'
<u><i>C. siamense</i></u>		ACTGATATCGGCGCTGCCAG . . . CGACCTAAGGTTGTCTTTGTGTCCTAG . . . CACATCTGGCCATCGATTCC-----CCTTC					
<i>C. aenigma</i>		ATAGATATCGGCGCTGCCAG . . . CCACCTTAGGTCGTCTTTGTGTTCTAG . . . CGCATCTGGTCGTCGATTCC-----ACTTC					
<i>C. aeschynomenes</i>		ACCGATATCGGCGCTGCCAG . . . CGACCTCAGGTTGTCTTTGTGTCCTAG . . . CACATCTGGTCATCGATTCC-----TTTG					
<i>C. alatae</i>		ACCGATATCGGCGCTGTTAG . . . CGACATGAAGCTGTCTCTATGTCCTAG . . . CGCATCTGATCATCAGTTCC-----CATTC					
<i>C. alienum</i>		ATAGATATCGGCGCTGCCAA . . . CGACTTTAGGTCGTCTTTGTGTTCTAG . . . CGCATCTGGTCGTCGATTCC-----ACTTC					
<i>C. aotearoa</i>		ACCGATATCGGCGCTGCTAG . . . CGACATTAGGTTGTCTTTGTATCCTAG . . . AAGATCTGGTCATCGATTCC-----GCTTC					
<i>C. camelliae</i>		ACCGATATCGGCGCTGCTAG . . . CGACATTAGGTTGTCTTTGTATCCTAG . . . AAGATCTGGTCATCGATTCC-----GCTTC					
<i>C. chrysophilum</i>		ATAGATATCGGCGCTGCCAA . . . CGACTTTAGGTCGTCTTTGTGTTCTAG . . . CGCATCTGTTGTCGTCGATTCC-----ACTTC					
<i>C. clidemiae</i>		ACCGATATCGGCGCTGCTAG . . . CGACATTAGTTTGTCTTTGTATCCTAG . . . AAGATCTGGTCATCGATTCC-----GCTTC					
<i>C. conoides</i>		ATAGATATCGGCGCTGCCAG . . . CGACTTTAGGTCGTCTTTGTGTTCTAG . . . CGCATCTGTTGTCGTCGATTCC-----ACTTC					
<i>C. fruticicola</i>		ATAGATATCGGCGCTGCCAA . . . CGACTTTAGGTCGTCTTTGTGTTCTAG . . . CGCATCTGTTGTCGTCGATTCC-----ACTTC					
<i>C. gloeosporioides</i>		ACCGATATCGGCGCTGCCAG . . . CCACCTTAGGTTGTCTTTGTGCCCTTG . . . TGCATCTGGTCATCGATTCC-----CCTTC					
<i>C. henanense</i>		ACCGATATCGACGCTACTTG . . . CGGCATCAGGTGGTCTTTTATCCTAG . . . AACATCTGGTGACTTGGTCATCGATTCCGCTTC					
<i>C. horii</i>		ACCGATAGCGGCGCTGCTAG . . . CGACATGAGAATGTGTTGTATCC-AG . . . CGCATCTGGTCGTCGATTCC-----CCTTC					
<i>C. jiangxiense</i>		ACCGATAGCGGCGCTGCTAG . . . CGACATTAGGTTGTCTTTGTATCCTAG . . . AAGATCTGGTCATCGATTCC-----GCTTC					
<i>C. musae</i>		ATAGATATCGGCGCTGCCAG . . . CGACTCTAGGTCGTCTTTGTGTTCTAG . . . CGCACCTGGTCGTCGATTCC-----ACTTC					
<i>C. noveboracense</i>		ATAGATATCGGCGCTGCCAA . . . CGACTTTAGGTCGCCCTTTGTGTTCTAG . . . CGCATCTGTTGTCGTCGATTCC-----ACTTC					
<i>C. perseae</i>		ATAGATATCGGCGCTGCCAG . . . CGACTTTAGGTCGTCTTTGTGTTCTAG . . . CGCACCTGGTCGTCGATTCC-----ACTTC					
<i>C. psidii</i>		ACCGATATCGGCGCTGCTAC . . . CGACATTAGTTTGTCTTTGTATCCTAG . . . AAGATCTGGTCATCGATTCC-----GCTTC					
<i>C. queenslandicum</i>		ACCGATATCGACGCTGCCAG . . . CAACCTCAAGTTGTCTTTATGTCCTAG . . . CACATCTGGTCATCGATTCC-----CCTTC					
<i>C. salsolae</i>		ACTGATATCGGCGCTGCCAG . . . CGACCTCAGGTTGTCTTTGTGTCCTAG . . . CACATCTGGCCATCGATTTC-----CCTTC					
<i>C. theobromicola</i>		ACTAATGTCCGCGCAACTAG . . . CGACATTGGGTTGTCTTTGTATCCCAT . . . CGCCTCTGGCCAGCAACGC-----CCTTC					
<i>C. ti</i>		ACCGATATCGGCGCTGCCAG . . . CGCCATTAGGTTGTCTTTGTATCCTAG . . . AAGATCTGGTCATCGATTCC-----GCTTC					
<i>C. tropicale</i>		ATCGACATCGGCGCTGCTAG . . . CGACCTCAGGCTGTCTTTGTGTCCTAG . . . CGCATCTGCTCATCGATTCC-----CCTTC					
<i>C. viniferum</i>		ATAGATATCGGCGCTGCCAG . . . CCACCTCAGGTCGTCTTTGTGTTCTAG . . . CGCATCTGGTCGTCGATTCC-----ACTTC					
<i>C. xanthorrhoeae</i>		ACCGATATCGGCGCTGCTAG . . . CGACATTGGGCTGTCTTTGTATCCTAG . . . CGGAGCTGGTCATCGATTCC-----CCTTC					

	5'	THTUBF	14 bp	THTUBP	106 bp	THTUBR	3'
<u><i>C. theobromicola</i></u>		CTTTTACCCGAGTTCCATGTTTACC . . . CGTCAATC--CGACCCCCTACTGCG . . . GCAGGGCTAAGGGCTAATC--TCTCGC					
<i>C. aenigma</i>		TTTTTTACCCGACTTCTATGCACAAC . . . TGTCAATCATCGACGCCCAACTCTG . . . GCGGGG-----CTAACC--TCCTTG					
<i>C. aeschynomenes</i>		TTTTTTACCCGACTTCTATGCTCAAC . . . TGTCAATCATCGACGTCCAACCTCTG . . . GCGGGG-----CTAACC--TCCTTG					
<i>C. alatae</i>		TTTTTTACCCGACTTCCATGCTCACC . . . CGTCAACCATCGACTTCCTACTCTG . . . GCGGGG-----CTAACC--TCCTTG					
<i>C. alienum</i>		TTTTTTACCCGACTTCTATGCACAAC . . . TGTCAATCATCGACGCCCAACTCTG . . . GCGGGG-----CTAACC--TCCTTG					
<i>C. aotearoa</i>		GTTTTTAC-----CCATGCTCACC . . . CGTCAATCATCGACCTCCTACTCTG . . . GCGGGG-----CTAACC--TCTTTG					



<i>C. asianum</i>	TTTTTACCCGACTTCCATGCTCAAC...TGTCAATCATCGACCTCCA <b>ACTCTG</b> ...GCGGGG-----CTAACC--TC <b>CTTG</b>
<i>C. camelliae</i>	GTTTTTAC-----CCATGATCACC...CGTCAATCATCGACCTCCTACTCTG...GCGGGG-----CTAACC--TCTTTG
<i>C. changpingense</i>	TTTTTACCCGACTTCTATGCTCAAC...TGTCAATCATCGAC <b>GTCCA</b> ACTCTG...GCGGGG-----CTAACC--TC <b>CTTG</b>
<i>C. chrysophilum</i>	TTTTTACCCGACTTCTATGCACAAC...TGTCAATCATCGACTCCCA <b>ACTCTG</b> ...GCGGGG-----CTAACC--TC <b>CTTG</b>
<i>C. cigarro</i>	GTTTTTAC-----CCATGCTCACC...CGTCAATCATCGACCTCCTACTCTG...GCGGGG-----CTAACC--TCTTTG
<i>C. cordylinicola</i>	GTTTTTAC-----CCATGCTCACC...CGTCAATCATCGACCTCCTACTCTG...GCGGGG-----CTAACC--TCTTTG
<i>C. endophyticum</i>	TTTTTACCCGACTTCCATGCTCAAC...TCTCAATCATCGACCTCCTACTCCG...GCGGGG-----CTAACC--TC <b>CTTG</b>
<i>C. fructicola</i>	TTTTTACCCGACTTCTATGCACAAC...TGTCAATCATCGACGCCCA <b>ACTCTG</b> ...GCGGGG-----CTAACC--TC <b>CTTG</b>
<i>C. gloeosporioides</i>	TTTTTACCCGACCTCTTTGCTCAAC...TGTCAATCATCGACCTCCTAGTCTG...GCGGGG-----CTAACC--TC <b>CTTG</b>
<i>C. grevilleae</i>	CTTTCACCCGAGTTCCATGTTCAAC...CGTCAATC--CGACCCCTACTGCG...GCAGGG-----CTAATC--TCTCGC
<i>C. grossum</i>	CTTTCACCCGAGTTCCATGTTCAAC...CGTCAATC--CGACCCCTACTGCG...GCAGGG-----CTAATC--TCTCGC
<i>C. henanense</i>	GTTTTTAC-----CCATGCTCACC...CGTCAATCATCGACCTCCTACTCTG...GCGGGG-----CTAACC--TCTTTG
<i>C. horii</i>	TTTTTACCCGACTTCCATGCTCAAC...CTTCAATTATCGACGTCTACTCTG...GCGGGG-----CTAACCAGAGTTCT
<i>C. jiangxiense</i>	GTTTTTAC-----CCATGCTCACC...CGTCAATCATCGACCTCCTACTCTG...GCGGGG-----CTAACC--TCTTTG
<i>C. kahawae</i>	GTTTTTAC-----CCATGCTCACC...CGTCAATCATCGACCTCCTACTCTG...GCGGGG-----CTAACC--TCTTTG
<i>C. musae</i>	TT-----ATGCACAAC...TGTCAATCATCGACGCCCA <b>ACTCTG</b> ...GCGGGG-----CTAACC--TC <b>CTTG</b>
<i>C. noveboracense</i>	TTTTTACCCGACTTCTATGCACAAC...TGTCAATCATCGACGCCCA <b>ACTCTG</b> ...GCGGGG-----CTAACC--TC <b>CTTG</b>
<i>C. proteae</i>	TTTTGACCCGACTTCCATGCTCAAC...TGTCAATCATCGACTCCATACTCTG...GCGGGG-----CTAACC--TCCGTG
<i>C. queenslandicum</i>	TTTTTACCCGACTTCCATGCTCAAC...TGTCAATCATCGAC <b>GTCCA</b> ACTCTG...GCGGGG-----CTAACC--TC <b>CTTG</b>
<i>C. salsolae</i>	TTTTTACCCGACTTCTATGCTCAAC...TGTTAATCATCGAC <b>GTCCA</b> ACTCTG...GCGGGG-----CTAACC--TC <b>CTCG</b>
<i>C. siamense</i>	TTTTTACCCGACTTCTATGCTCAAC...TGTCAATCATCGAC <b>GTCCA</b> ACTCTG...GCGGGG-----CTAACC--TC <b>CTTG</b>
<i>C. tropicale</i>	TTTTTACCCGATTTCTATGCTCAAC...TGTCAATCATCGAC <b>GTCCA</b> ACTCTG...GCGGGG-----CTAACC--TC <b>CTTG</b>
<i>C. viniferum</i>	TTTTTACCCGACTTCTATGCACAAC...TGTCAATCATCGACGCCAA <b>ACTCTG</b> ...GCGGGG-----CTAACC--TC <b>CTTG</b>
<i>C. wuxiense</i>	GTTTTTAC-----CCATGATCACC...CGTCAATCATCGACCTCCTACTCTG...GCGGGG-----CTAACC--TCTTTG

**Figure S2.** Alignments of available *Colletotrichum* accessions at primer and probe sites for each primer-probe set. **Bold** indicates mismatches with the target species, “-” is a gap, and “...” is excluded sequence. For *C. chrysophilum* ladA, *C. fructicola* ladA, *C. gloeosporioides* GAPDH, *C. noveboracense* ladA, *C. nymphaeae* GAPDH, and *C. theobromicola* THTUB, accessions outside their species complex were excluded due to high sequence dissimilarity at these primer and probe sites.