

SUPP TABLE 1 – Strains used in this study and MOTU-specific PCR results

Species	Culture Collection or sample number	Country or NZ Bioregion ¹	Year Collected	ITS1F & ITS4 conventional PCR – ‘simile’ ²	ITS1F & ITS4 conventional PCR – ‘verum’ ²	<i>Cyclaneusma minus</i> ‘simile’ specific PCR ³	<i>Cyclaneusma minus</i> ‘verum’ specific PCR ³	Morphotype based on colony morphology	Morphotype based on molecular analyses
<i>Cyclaneusma minus</i> (Type- strain)	ICMP 20937, CBS 496.73	Chile	1968	- ⁴	+ ⁴	-	+	ND ⁴	verum
<i>Cyclaneusma niveum</i> (Type- strain)	ICMP 20936, CBS 495.73	Germany	1971	+	-	-	-	NA ⁴	NA
<i>Cyclaneusma minus</i> (NZ isolates)	110 E/2a	Northland, NI	1996	+	-	+	-	simile	simile
	110 F/2	Northland, NI	1996	+	-	+	-	simile	simile
	110E/1	Northland, NI	1996	+	-	+	-	simile	simile
	110F/1	Northland, NI	1996	+	-	+	-	simile	simile
	125/2	Auckland, NI	1996	+	-	+	-	ND	simile
	166/4	Waikato, NI	1997	+	-	+	-	ND	simile
	169/8	Southland, SI	1997	+	-	+	-	ND	simile
	193/3	Nelson, SI	1997	+	-	+	-	simile ⁵	simile
	216 F	Coromandel, NI	NR ⁴	+	-	+	-	verum ⁵	simile
	270 H/3B	Taupo, NI	NR	+	-	+	-	ND	simile
	NZFS 4263, 300L/2C	Southland, SI	NR	+	-	+	-	simile ⁵	simile
	NZFS 1000, 7877	Northland, NI	2003	+	-	+	-	verum	simile
	NZFS 110	South Canterbury, SI	1969	-	+	-	+	simile	verum
	NZFS 110A	Taupo, NI	1977	-	+	-	+	verum	verum
NZFS 110B	Bay of Plenty, NI	1977	-	+	-	+	ND	verum	

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NZFS 110C	Bay of Plenty, NI	1977	-	+	-	+	verum	verum
NZFS 110D	Marlborough, SI	1988	+	-	+	-	simile	simile
NZFS 110G, 2922/1	Taupo, NI	1992	+	-	+	-	verum	simile
NZFS 1800, 8744/1	Dunedin, SI	2005	-	+	-	+	verum	verum
NZFS 2745, 104/2	Taupo, NI	1996	+	-	+	-	simile	simile
NZFS 2746, 118g/9	Northland, NI	1996	+	-	+	-	simile	simile
NZFS 3276, PS2N1G(9)	Bay of Plenty, NI	2008	-	+	-	+	simile	verum
NZFS 3277, PR3N18(3)	Bay of Plenty, NI	2008	+	-	+	-	ND	simile
NZFS 3303, CS6N17(1)	Taupo, NI	2007	+	-	+	-	simile	simile
NZFS 3325, CS3N5(1)	Bay of Plenty, NI	2007	-	+	-	-	verum	verum
NZFS 3617, NZE57	Taupo, NI	2011	+	-	+	-	verum	simile
NZFS 4077, 193/1	Nelson, SI	1997	+	-	+	-	ND	simile
NZFS 4078, 6287/1	Waikato, NI	NR	+	-	+	-	simile	simile
NZFS 4079, 130/3	Taranaki, NI	1996	+	-	+	-	ND	simile
NZFS 4081, 143a G1	Nelson, SI	1996	+	-	+	-	ND	simile
NZFS 4082, 115 Y1	Wanganui, NI	1996	+	-	+	-	simile	simile
NZFS 4083, 146 Y7	Gisborne, NI	1996	+	-	+	-	verum	simile
NZFS 4084, 148 Y12	Bay of Plenty, NI	1996	+	-	+	-	simile	simile
NZFS 4085, 196b/1	Gisborne, NI	1997	+	-	+	-	ND	simile
NZFS 4086, 200/1	Otago Lakes, SI	1997	-	+	-	+	verum	verum
NZFS 4087, 136/10	Central Otago, SI	1996	-	+	-	+	verum	verum
NZFS 4088, 156/3	Marlborough, SI	1997	+	-	+	-	verum	simile
NZFS 4089, 154/7	Marlborough Sounds, SI	1996	+	-	+	-	ND	simile
NZFS 4090, 154/3	Southland, SI	1996	+	-	+	-	verum	simile
NZFS 4091, 103Y/5	Bay of Plenty, NI	1996	+	-	+	-	ND	simile
NZFS 4092, 159/4	Nelson, SI	1997	+	-	+	-	verum	simile

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NZFS 4093, 301 M/2D	Fiordland, SI	NR	-	+	-	+	verum	verum
NZFS 4094, 313	Marlborough Sounds, SI	NR	+	-	+	-	verum	simile
NZFS 4095, 317B	Wellington, NI	NR	+	-	+	-	verum	simile
NZFS 4097, 309 L/3C	Southland, SI	NR	+	-	+	-	ND	simile
NZFS 4098, 284 L/7B	Wairarapa, NI	NR	+	-	+	-	ND	simile
NZFS 4099, 136/4	Central Otago, SI	1996	-	+	-	+	verum	verum
NZFS 4100, 127 G2	Dunedin, SI	1996	-	+	-	+	verum	verum
NZFS 4101, 129/8	North Canterbury, SI	1996	-	+	-	+	ND	verum
NZFS 4105, 130/6	Taranaki, NI	NR	+	-	+	-	verum	simile
NZFS 4106, 125/1	Auckland, NI	1996	+	-	+	-	verum	simile
NZFS 4107, 142a6	Wellington, NI	1996	+	-	+	-	simile	simile
NZFS 4108, 127/3	Dunedin, SI	1996	-	+	-	+	simile	verum
NZFS 4109, 126/4	Auckland, NI	1996	+	-	+	-	verum	simile
NZFS 4110, 104/5	Bay of Plenty, NI	1996	+	-	+	-	verum	simile
NZFS 4111, 6342 B	Hawke's Bay, NI	NR	+	-	+	-	ND	simile
NZFS 4112, 145 Y2	Bay of Plenty, NI	1996	+	-	+	-	ND	simile
NZFS 4113, 137/10	Marlborough Sounds, SI	NR	-	+	-	+	simile	verum
NZFS 4116, 140 Y9	Taupo, NI	NR	-	+	+	-	verum	simile
NZFS 4117, 177/3	Rangitikei, NI	1997	+	-	+	-	ND	simile
NZFS 4118, 104/4	Bay of Plenty, NI	1996	+	-	+	-	verum	simile
NZFS 4119, 138 G1	Rangitikei, NI	1996	+	-	+	-	verum	simile
NZFS 4120, 278 H/5A	Westland, SI	NR	+	-	+	-	ND	simile
NZFS 4121, 268 M/2A	Gisborne, NI	NR	+	-	+	-	ND	simile
NZFS 4123, 146 G14	Gisborne, NI	NR	+	-	+	-	ND	simile
NZFS 4124, 278 L/3A	Westland, SI	NR	+	-	+	-	ND	simile

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NZFS 4126, 284 L/3A	Wairarapa, NI	NR	+	-	+	-	simile	simile
NZFS 4127, 190/1	Taupo, NI	1997	+	-	+	-	verum	simile
NZFS 4128, 252B	Waikato, NI	NR	+	-	+	-	simile ⁵	simile
NZFS 4130, 118 G8	Northland, NI	1996	+	-	+	-	simile	simile
NZFS 4131, 277 M/1C	Westland, SI	NR	+	-	+	-	ND	simile
NZFS 4132, 129/5	North Canterbury, SI	1996	-	+	-	+	ND	verum
NZFS 4140, 115 G1	Wanganui, NI	1996	+	-	+	-	simile	simile
NZFS 4142, 142/2	Wellington, NI	1996	+	-	+	-	verum	simile
NZFS 4143, 130/10	Taranaki, NI	1996	+	-	+	-	simile	simile
NZFS 4249, 138 Y10	Rangitikei, NI	1996	+	-	+	-	verum ⁵	simile
NZFS 4255, 232 L/3A	Northland, NI	NR	+	-	+	-	ND	simile
NZFS 4257, 303L/3C	Southland, SI	NR	-	+	-	+	verum	verum
NZFS 4270, 143b/G2	Nelson, SI	1996	+	-	+	-	ND	simile
NZFS 4274, 271C	Waikato, NI	NR	+	-	+	-	verum ⁵	simile
NZFS 680	Gisborne, NI	2001	+	-	+	-	simile	simile
NZFS 681	Gisborne, NI	2001	+	-	+	-	simile	simile
NZFS 682, A0061212	Gisborne, NI	2001	+	-	+	-	verum	simile
NZFS 685, A0069003/3	Auckland, NI	2001	+	-	+	-	verum	simile
NZFS 686, A0069003/1	Auckland, NI	2001	+	-	+	-	ND	simile
NZFS 687, A0068988/2	Auckland, NI	2001	+	-	+	-	ND	simile
NZFS 688, A0068988/1	Auckland, NI	2001	+	-	+	-	simile	simile
NZFS 721, 6287	Wellington, NI	1999	+	-	+	-	verum	simile
NZFS 722, 6342/1	Hawke's Bay, NI	1999	-	+	-	+	verum	verum
NZFS 723, 6342/4	Hawke's Bay, NI	1999	-	+	-	+	simile	verum
NZFS 724, 101(Y/6)	Bay of Plenty, NI	1996	-	+	-	+	ND	verum
NZFS 4114, 318	Coromandel, NI	1998	-	+	-	+	verum	verum

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NZFS 726, 301 (7/2)	Fiordland, SI	1998	-	+	-	+	simile	verum
NZFS 727, 6960/4	Taupo, NI	2000	+	-	+	-	simile	simile
NZFS 745, 319F	Auckland, NI	1998	+	-	+	-	ND	simile
NZFS 746, 6308/2	Wellington, NI	1999	+	-	+	-	verum	simile
NZFS 747, 6314/1	Wellington, NI	1999	+	-	+	-	simile	simile
NZFS 748, 6314/5	Wellington, NI	1999	+	-	+	-	simile	simile
NZFS 749, 6342D	Hawke's Bay, NI	1999	+	-	+	-	simile	simile
NZFS 752, 301 (7/3)	Fiordland, SI	1998	-	+	+	+	simile	verum
NZFS 753, 301 (7/4)	Fiordland, SI	1998	-	+	-	+	simile	verum
NZFS 758, 102g/4	Taupo, NI	1996	+	-	+	-	simile	simile
NZFS 759, 107/7	Northland, NI	1996	+	-	+	+	verum	simile
NZFS 761, 284 L/7a	Wairarapa, NI	1998	+	-	+	-	simile	simile
NZFS 762, 104/12	Taupo, NI	1996	+	-	+	-	ND	simile
NZFS 763, 6317A	Wellington, NI	1999	+	-	+	-	simile	simile
NZFS 764, 303 L/6B	Southland, SI	1998	-	+	-	+	simile	verum
NZFS 765, 6317B	Wellington, NI	1999	+	-	+	-	ND	simile
NZFS 766, 105b/16	Auckland, NI	1996	+	-	+	-	verum	simile
NZFS 767, 6299/1	Wellington, NI	1999	-	-	+	-	simile	simile
NZFS 768, 276 L/2a	Nelson, SI	1998	+	-	+	-	simile	simile
NZFS 769, 299 H/2B	Dunedin, SI	1998	+	-	+	-	verum	simile
NZFS 770, 251 (3/1)	Taupo, NI	1998	+	-	+	-	simile	simile
NZFS 771, 103 g/2	Bay of Plenty, NI	1996	+	-	+	-	verum	simile
NZFS 773, 113 g/2	Taupo, NI	1996	+	-	+	-	verum	simile
NZFS 805, A0069069/1	Westland, SI	2001	+	-	+	-	simile	simile
NZFS 806, A0069069/2	Westland, SI	2001	+	-	+	-	simile	simile

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	NZFS 807, A0063921/1	Southland, SI	2001	+	-	+	+	simile	simile
	NZFS 808	Southland, SI	2001	+	-	+	-	simile	simile
	NZFS 809, A0063921/3	Southland, SI	2001	+	-	+	-	simile	simile
<i>Dothistroma septosporum</i>	NZFS 3287	Taupo, NI	2007	ND	ND	-	-	NA	NA
<i>Diplodia sapinea</i>	15B	Taupo, NI	1967	ND	ND	-	-	NA	NA
<i>Armillaria novae-zelandiae</i>	NZFS 2124	Buller, SI	2004	ND	ND	-	-	NA	NA
<i>Xylariaceae</i> sp.	NZFS 3251	Bay of Plenty, NI	2007	ND	ND	-	-	NA	NA
<i>Phytophthora pluvialis</i>	NZFS 3049	Northland, NI	2008	ND	ND	-	-	NA	NA
<i>Phytophthora kernoviae</i>	NZFS 3614	Wellington, NI	2011	ND	ND	-	-	NA	NA
<i>Phytophthora cactorum</i>	NZFS 119.03	Bay of Plenty, NI	1998	ND	ND	-	-	NA	NA
<i>Phytophthora multivora</i>	NZFS 2815	Auckland, NI	2007	ND	ND	-	-	NA	NA
<i>Pythium irregulare</i>	NZFS 3042	Bay of Plenty, NI	2008	ND	ND	-	-	NA	NA
<i>Pinus radiata</i>	D4-57(1)	NR	NR	ND	ND	-	-	NA	NA

¹ Crosby et al. (1998). NI, North Island of New Zealand; SI, South Island of New Zealand

² ITS1F and ITS4 PCR, where the morphotype designation is determined by the PCR amplicon size, due to a 192 bp indel in *C. niveum* and *C. minus* 'simile' (Prihatini et al. 2014).

³ Morphotype-specific PCRs using Cm 'simile' specific ITS and Cm 'verum' specific ITS primers. Results are combined from conventional PCR and SYBR-green real-time PCR.

⁴ +, positive detection; -, negative detection; ND, not determined; NA, not applicable; NR, data not recorded. The real-time PCR Cq cut-off for positive amplification was ≤35 cycles.

⁵ Data from Turner and Dick (unpublished data).