

Table S2. Metagenomic survey of bacteria isolated from *Pristionchu entomophagus* from soil samples from Tübingen forest

Worm*	Identifier	Count <sup>†</sup>	Average significance <sup>‡</sup>	Average bitscore <sup>§</sup>
1	<i>Flavobacterium</i> sp. WB 3.1-78; AM177614169	10	0.99	1134.60
	Uncultured soil bacterium; F46_Pitesti; DQ378208169	7	1.00	1085.14
	Unknown sequence169	6	0.00	0.00
	<i>Flavobacterium hydatis</i> ; type strain: DSM 2063; AM230487169	5	1.00	1224.00
	Uncultured bacterium; rRNA389; AY959162169	5	0.99	1193.00
	Uncultured <i>Pseudomonas</i> sp.; TM14_3; DQ279329169	4	1.00	1058.50
	<i>Pedobacter panaciterrae</i> ; Gsoil 042; AB245368169	3	0.99	1276.00
	<i>Pseudomonas costantinii</i> (T); CFBP 5705; HAMB1 2444; AF374472169	3	0.99	1238.33
	<i>Pseudomonas fluorescens</i> ; TM5-2; AB204715169	3	1.00	960.67
	<i>Pseudomonas</i> sp. NZ017; AY014805169	3	1.00	1217.33
	Uncultured bacterium; rRNA419; AY959192169	3	0.99	989.67
	Bacterium spb29A6-1; DQ321633169	2	0.99	1108.00
	<i>Chryseobacterium</i> sp. BBTR48; DQ337589169	2	0.98	1063.50
	<i>Pseudomonas</i> sp. TB2-10-II; AY599715169	2	0.99	1296.50
	<i>Pseudomonas</i> sp. TM2_3; DQ279331169	2	0.99	1299.50
	<i>Pseudomonas</i> sp. WG7#1; AY263469169	2	1.00	1246.00
	Rape rhizosphere bacterium m9024; M9024; AJ295391169	2	0.97	503.50
	Uncultured bacterium; BANW568; DQ264536169	2	0.99	629.50
	Uncultured bacterium; rRNA427; AY959200169	2	1.00	1165.50
	Uncultured <i>Pedobacter</i> sp.; Cl-78-TB2-II; AY599665169	2	0.99	988.00
	<i>Bosea</i> sp. TM19_7; DQ303323169	1	1.00	1185.00
	<i>Chryseobacterium soldanellicola</i> ; PSD1-4; AY883415169	1	0.98	456.00
	<i>Chryseobacterium</i> sp. TSBY-67; DQ166169169	1	0.97	1128.00
	<i>Erwinia billingiae</i> ; Eb661; AM055711169	1	1.00	969.00
	<i>Flavobacterium</i> sp. IsoC2; 169	1	0.98	999.00
	<i>Flavobacterium</i> sp. WB 4.4-116; AM177640169	1	0.98	963.00
	<i>Pedobacter cryoconitis</i> (T); A37; AJ438170169	1	0.99	1231.00
	<i>Pedobacter</i> sp. TB4-9-II; AY599663169	1	0.99	1227.00
	<i>Pseudomonas fluorescens</i> PfO-1; CP000094169	1	0.99	1118.00
	<i>Pseudomonas fluorescens</i> ; CCM 2115; DQ207731169	1	0.99	1189.00
	<i>Pseudomonas kilonensis</i> ; PD 31; DQ377772169	1	0.98	961.00
	<i>Pseudomonas lini</i> ; PD 28; DQ377769169	1	0.99	1215.00
	<i>Pseudomonas putida</i> ; GM6; DQ133506169	1	0.99	1019.00
	<i>Pseudomonas rhizosphaerae</i> ; OW-2; AY866408169	1	0.99	1320.00
	<i>Pseudomonas</i> sp. CHNTR36; DQ337596169	1	1.00	1039.00
	<i>Pseudomonas</i> sp. Enf26; DQ339611169	1	1.00	1039.00
	<i>Pseudomonas</i> sp. JA03; DQ365568169	1	0.99	1122.00
	<i>Pseudomonas</i> sp. NN018591; AY166927169	1	1.00	862.00
	<i>Pseudomonas</i> sp.; S2; AJ002813169	1	0.96	850.00
	Uncultured bacterium; O15C-F01; AY661996169	1	0.98	985.00
	Uncultured bacterium; Car56rb; AF224809169	1	0.99	1033.00
	Uncultured bacterium; LOP-6; DQ241387169	1	1.00	1247.00
	Uncultured bacterium; ML-3-43; DQ166455169	1	0.99	605.00
	Uncultured bacterium; spb33c6; DQ321625169	1	0.98	1096.00
2	Uncultured <i>Pseudomonas</i> sp.; SQ9_Pitesti; DQ366089170	23	0.99	1164.96
	<i>Pseudomonas putida</i> ; Y2-8; DQ121396170	10	1.00	1275.40
	<i>Achromobacter xylooxidans</i> ; wp22; AJ560626170	7	0.99	1107.71
	<i>Stenotrophomonas</i> sp. Enf29; DQ339605170	7	1.00	1157.14
	<i>Pseudomonas</i> sp. FLM05-3; DQ084461170	6	1.00	1341.50
	Uncultured bacterium; 516; DQ158108170	5	0.99	1189.00
	Gamma proteobacterium KIT2TW1; DQ234472170	2	0.99	1167.50
	<i>Pseudomonas fluorescens</i> ; FLM05-1; DQ084459170	2	0.99	1265.00
	<i>Pseudomonas</i> sp. dcm7B; AF430125170	2	0.99	1385.50
	uncultured bacterium; MP104-0916-b40; DQ088809170	2	0.99	1146.00
	<i>Variovorax</i> sp. TM10_10; DQ279348170	2	1.00	1288.00
	<i>Agrobacterium albertimagni</i> ; AOL15; AF316615170	1	0.98	1229.00
	bacterium M-A21a; AY661921170		0.99	729.00
	<i>Bordetella avium</i> 197N; AM167904170	1	0.99	1360.00
	<i>Bordetella</i> sp. 1-3; DQ256466170	1	0.99	1322.00
	<i>Flavobacterium</i> sp. WB 4.2-72; AM177626170	1	0.99	1096.00
	<i>Flavobacterium</i> sp. WB-1.1.56; AM177392170	1	0.99	1296.00
	<i>Pedobacter koreensis</i> ; WPCB189; DQ092871170	1	0.98	773.00
	<i>Pedobacter panaciterrae</i> ; Gsoil 042; AB245368170	1	0.99	1140.00
	<i>Pseudomonas fluorescens</i> ; TM5-2; AB204715170	1	0.98	1009.00
	<i>Pseudomonas</i> sp. 131; AM184094170	1	1.00	432.00
	<i>Pseudomonas</i> sp. 2001; AM110960170	1	1.00	432.00

	<i>Pseudomonas</i> sp. BW11M1; AY118112170	1	1.00	926.00
	<i>Pseudomonas</i> sp. FAIR/BE/F/GH94; AJ297355170	1	0.99	1213.00
	<i>Pseudomonas</i> sp. Hugh1955; AB247208170	1	1.00	950.00
	<i>Pseudomonas</i> sp. P2; DQ404013170	1	1.00	870.00
	<i>Pseudomonas syringae</i> ; 1; AM184090170	1	1.00	815.00
	<i>Pseudomonas syringae</i> ; Lz4W; AJ576247170	1	0.99	1308.00
	<i>Rhizobium yanglingense</i> ; CCBAU 71462; AF195031170	1	0.97	1320.00
	<i>Sinorhizobium</i> sp. 9702-M4; AF357225170	1	0.97	1209.00
	<i>Sphingomonas</i> sp. Gamma1-7; AY771802170	1	0.99	1178.00
	<i>Stenotrophomonas</i> sp. An27; AJ551165170	1	1.00	1348.00
	<i>Stenotrophomonas</i> sp.; dune 68; AJ884480170	1	1.00	1170.00
	uncultured bacterium O16A8; AF220325170	1	1.00	842.00
	uncultured bacterium; BANW452; DQ264446170	1	0.97	1461.00
	uncultured bacterium; ML-3-43; DQ166455170	1	1.00	406.00
	uncultured bacterium; Phe2; AF534211170	1	1.00	406.00
	unknown sequence170	1	0.00	0.00
	<i>Variovorax</i> sp. c13; AB167194170	1	0.98	1243.00
	<i>Variovorax</i> sp. HI-I4; DQ205307170	1	0.99	1332.00
3	<i>Pseudomonas</i> sp. KBOS 17; AY653222171	39	0.99	1105.82
	<i>Pseudomonas</i> sp. TM7_1; DQ279324171	19	0.99	1210.00
	<i>Pseudomonas</i> sp. P1-3-20; AJ969091171	16	0.99	1107.50
	<i>Pseudomonas</i> sp. SaO3; AF511508171	12	0.99	1373.33
	<i>Pseudomonas</i> sp. 6A; DQ417331171	8	0.99	1147.12
	<i>Pseudomonas fluorescens</i> ; FLM05-1; DQ084459171	3	0.99	1097.67
	<i>Stenotrophomonas</i> sp. Enf29; DQ339605171	3	0.99	1081.33
	<i>Pseudomonas fluorescens</i> ; TM5-2; AB204715171	2	0.99	1051.50
	<i>Stenotrophomonas</i> sp. An27; AJ551165171	2	0.99	1134.00
	<i>Achromobacter xylosoxidans</i> ; wp22; AJ560626171	1	1.00	1134.00
	<i>Pseudomonas fluorescens</i> ; ATCC 17573; AF094730171	1	0.98	1451.00
	uncultured bacterium; Phe67; AF534216171	1	1.00	1023.00
	uncultured bacterium; PI73D06; AY939404171	1	1.00	916.00
	uncultured soil bacterium; TG11; DQ297949171	1	1.00	866.00
	unidentified bacterium; W4B-B08; AY345490171	1	0.98	1229.00
4	uncultured soil bacterium; M39_Pitesti; DQ378256172	13	0.95	1066.62
	uncultured bacterium; EV818CFSSAHH49; DQ336995172	9	1.00	1368.44
	uncultured bacterium; S-Jos_11; DQ017937172	8	1.00	1010.00
	<i>Variovorax</i> sp. TM10_10; DQ279348172	6	0.99	1291.00
	uncultured bacterium; rRNA349; AY959122172	5	0.99	1262.40
	uncultured bacterium; rRNA389; AY959162172	4	0.99	1257.25
	beta proteobacterium pfB24; AY336553172	3	1.00	1243.00
	<i>Pseudomonas costantinii</i> (T); CFBP 5705; HAMBI 2444; AF374472172	3	1.00	1254.67
	<i>Alcaligenes</i> sp. 92; AY238499172	2	0.99	1290.50
	bacterium 1-4; DQ163939172	2	0.99	1136.50
	<i>Chryseobacterium</i> sp. C2+4; AF375834172	2	0.98	1150.00
	<i>Chryseobacterium</i> sp. TSBY-67; DQ166169172	2	0.98	1209.50
	<i>Propionibacterium acnes</i> ; PV66; AY642041172	2	1.00	1330.00
	<i>Pseudomonas fluorescens</i> ; TC222; DQ402053172	2	0.99	1380.00
	<i>Serratia fonticola</i> ; UTAD54; AY236502172	2	1.00	1305.50
	uncultured actinobacterium; APe2_6; AB074624172	2	1.00	1354.00
	uncultured bacterium; E067; DQ326631172	2	1.00	1305.50
	<i>Achromobacter xylosoxidans</i> ; SoO7; AF511516172	1	0.99	1263.00
	<i>Achromobacter xylosoxidans</i> ; wp22; AJ560626172	1	0.99	1086.00
	<i>Alcaligenes</i> sp. s2; DQ237948172	1	0.99	1251.00
	arctic soil bacterium S1R1; DQ234512172	1	0.99	1358.00
	bacterium Wuba47; AF336356172	1	0.98	1394.00
	<i>Bosea</i> sp. TM19_7; DQ303323172	1	1.00	1289.00
	<i>Chryseobacterium</i> sp. BBTR48; DQ337589172	1	0.98	1203.00
	<i>Flavobacterium</i> sp. Enf62; DQ339596172	1	0.98	1356.00
	<i>Methylobacterium</i> sp. iEII3; AY364020172	1	0.99	1249.00
	<i>Pedobacter aurantiacus</i> ; DS-27; DQ235228172	1	0.98	1215.00
	<i>Pedobacter roseus</i> ; CL-GP80; DQ112353172	1	0.98	1118.00
	<i>Pseudomonas fluorescens</i> ; AF137359172	1	1.00	787.00
	<i>Pseudomonas fluorescens</i> ; P26 0c1; AM086223172	1	0.99	1269.00
	<i>Pseudomonas graminis</i> (T); DSM 11363 (type strain); Y11150172	1	1.00	1374.00
	<i>Pseudomonas putida</i> ; TauN2; AY823622172	1	0.98	1245.00
	<i>Pseudomonas</i> sp. BWDY-27; DQ314541172	1	0.99	1346.00
	<i>Pseudomonas</i> sp. Ens63; DQ339632172	1	0.99	1168.00
	<i>Pseudomonas</i> sp. Hugh2090; AB247213172	1	0.99	954.00

<i>Pseudomonas</i> sp. TB2-10-II; AY599715172	1	1.00	1405.00
rhizosphere soil bacterium BEM-880; AM110779172	1	0.97	1237.00
<i>Serratia fonticola</i> (T); DSM 4576; AJ233429172	1	0.99	862.00
<i>Serratia</i> sp. 9A_12; AY689059172	1	0.99	1334.00
<i>Stenotrophomonas</i> sp. Enf29; DQ339605172	1	1.00	1360.00
uncultured bacterium; 005C-B03; AY661994172	1	0.94	1027.00
uncultured bacterium; JE100; DQ004755172	1	0.99	1370.00
uncultured bacterium; rRNA267; AY959040172	1	0.99	1396.00
uncultured bacterium; rRNA269; AY959042172	1	1.00	1197.00
uncultured bacterium; rRNA375; AY959148172	1	0.99	1243.00
uncultured bacterium; rRNA427; AY959200172	1	1.00	1243.00
uncultured bacterium; S301D; AM158352172	1	0.99	561.00
uncultured bacterium; T303D; AM158415172	1	0.99	1281.00
uncultured organism; MC0610c2; AY897998172	1	1.00	1390.00
uncultured phototrophic eukaryote; RS 8-Bact35; AJ867652172	1	1.00	1461.00
uncultured <i>Pseudomonas</i> sp.; JT75-312; AB189378172	1	1.00	1332.00
uncultured soil bacterium; F46_Pitesti; DQ378208172	1	0.99	1065.00
uncultured soil bacterium; TIIA5; DQ297951172	1	0.98	1340.00
unknown sequence172	1	0.00	0.00
<i>Variovorax</i> sp. HI-I4; DQ205307172	1	0.99	1265.00
<i>Variovorax</i> sp. MG51; AJ746108172	1	0.99	1158.00
<i>Xanthomonas</i> sp. TM5_6; DQ279313172	1	1.00	1380.00

\*Identifier: description of the best matching BLAST database record.

†Count: how many times a query sequence was isolated that matches this identifier.

‡Average significance: the product that is calculated by the proportion of aligned query×fraction of identical bases (should be greater than 0.9).

§Average bitscore: the average BLAST bitscore.