

Table S1. Metagenomic survey of bacteria isolated from *Pristionchus lheriteri* from soil samples from Tübingen forest

Worm	Identifier*	Count [†]	Average significance [‡]	Average bitscore [§]
1	<i>Stenotrophomonas</i> sp. Enf29; DQ339605168	14	0.98	1033.07
	<i>Achromobacter xylosoxidans</i> ; wp22; AJ560626168	7	0.99	1102.00
	Uncultured bacterium; rRNA377; AY959150168	7	0.99	1160.71
	Gamma proteobacterium ANJC2; DQ234444168	5	0.98	1099.00
	<i>Pseudomonas</i> sp. TB2-10-II; AY599715168	4	0.99	1302.25
	Unknown sequence168	4	0.00	0.00
	<i>Pseudomonas</i> sp. T2-2005; AY874539168	3	1.00	1191.00
	<i>Stenotrophomonas</i> sp.; dune 68; AJ884480168	3	0.99	1184.33
	<i>Pseudomonas</i> sp. 6A; DQ417331168	2	0.99	1046.50
	<i>Pseudomonas</i> sp. Fa2; AY131214168	2	0.99	956.50
	<i>Pseudomonas</i> sp. P1-3-20; AJ969091168	2	1.00	1163.50
	Uncultured bacterium; EKHO-14; AF142897168	2	0.94	632.50
	Uncultured bacterium; EV818BHEB5102702SAS55; DQ256347168	2	1.00	532.00
	Uncultured beta proteobacterium; CrystalBog2KF8; AY792247168	2	1.00	1003.00
	Uncultured soil bacterium; UB7; DQ297972168	2	0.99	877.00
	<i>Achromobacter xylosoxidans</i> ; EE2-11-18; AM117450168	1	0.99	1011.00
	Earthworm cast bacterium C29D1; AY039442168	1	0.99	551.00
	<i>Flavobacterium</i> sp. WB 4.3-20; AM177630168	1	1.00	1279.00
	<i>Mesorhizobium</i> sp. GWS-BW-H238; AY332116168	1	0.93	1003.00
	<i>Phyllobacterium ifriqiyense</i> ; STM 370; AY785325168	1	0.98	1152.00
	<i>Phyllobacterium</i> sp. CCBAU 45127-2; DQ269499168	1	0.99	1294.00
	<i>Pseudomonas brassicacearum</i> ; PD 5; DQ377746168	1	1.00	488.00
	<i>Pseudomonas fluorescens</i> ; TM5-2; AB204715168	1	1.00	973.00
	<i>Pseudomonas</i> sp. NZ011; AY014803168	1	0.99	1035.00
	<i>Pseudomonas</i> sp. PH-03; AY091598168	1	1.00	940.00
	<i>Pseudomonas</i> sp. WG7#1; AY263469168	1	0.99	1193.00
	<i>Pseudomonas</i> sp. WT OTU2; AY965247168	1	0.99	1221.00
	<i>Rhizobium</i> sp. ORS 1439; AY500257168	1	0.98	1417.00
	<i>Stenotrophomonas</i> sp. An27; AJ551165168	1	0.99	1289.00
	Uncultured <i>Acidovorax</i> sp.; 5G35; AY177768168	1	0.99	1217.00
	Uncultured bacterium; 300C-G04; AY662007168	1	1.00	1352.00
	Uncultured bacterium; BANW729; DQ264639168	1	0.95	1035.00
	Uncultured bacterium; cvf75037; AY100574168	1	0.98	954.00
	Uncultured bacterium; EV818EB5CPSAJJ33; DQ337037168	1	0.97	815.00
	Uncultured bacterium; EV818SWSAP79; DQ337095168	1	0.98	1203.00
	Uncultured bacterium; LOP-6; DQ241387168	1	0.99	862.00
	Uncultured bacterium; ML-3-43; DQ166455168	1	1.00	511.00
	Uncultured bacterium; rRNA222; AY958995168	1	0.99	1291.00
	Uncultured gamma proteobacterium; 5P50; AJ871072168	1	0.90	991.00
	Uncultured gamma proteobacterium; MspS83; AY770720168	1	0.98	1055.00
	Uncultured <i>Pseudomonas</i> sp.; EUB74; AY693823168	1	1.00	831.00
	Uncultured <i>Pseudomonas</i> sp.; KTB_F3-1; AY623891168	1	0.99	1197.00
	Uncultured soil bacterium; TA12; DQ297941168	1	0.99	563.00
	Uncultured soil bacterium; TA8; DQ297940168	1	0.99	545.00
	<i>Variovorax</i> sp. TM10_10; DQ279348168	1	0.99	1255.00
2	Unknown sequence173	47	0.00	0.00
	<i>Variovorax</i> sp. c13; AB167194173	7	1.00	1355.86
	<i>Arthrobacter</i> sp. 20/4; DQ366002173	4	1.00	1303.50
	Uncultured bacterium; p-3415-SwA2; AF371861173	4	1.00	1310.25
	Beta proteobacterium pfB24; AY336553173	3	1.00	1237.33
	<i>Pseudomonas</i> sp. BBCT8; DQ337559173	3	1.00	1344.00
	<i>Variovorax</i> sp. TM10_10; DQ279348173	2	1.00	1319.50
	<i>Alnus incana</i> ; U03555173	1	1.00	1439.00
	<i>Arthrobacter</i> sp. Tibet-IIVa3; DQ108397173	1	1.00	1267.00
	<i>Propionibacterium acnes</i> ; PV66; AY642041173	1	1.00	1247.00
	<i>Pseudomonas</i> sp. E4-1; DQ227349173	1	1.00	1360.00
	<i>Pseudomonas stutzeri</i> ; ZoBell (ATCC 14405); U26420173	1	1.00	1364.00
	uncultured bacterium; EV818CFSSAH49; DQ336995173	1	1.00	1249.00
	uncultured bacterium; Glu1; AF534192173	1	1.00	1431.00
	uncultured bacterium; KU71A; AY739681173	1	1.00	1380.00
	uncultured bacterium; SOB-31; AB126364173	1	1.00	1183.00

3	<i>Bordetella</i> sp. 1-3; DQ256466174	12	0.98	1161.42
	<i>Flavobacterium</i> sp. 10B; AJ698832174	7	1.00	1219.86
	unknown sequence174	5	0.00	0.00
	<i>Flavobacterium johnsoniae</i> ; Jm162a; DQ256490174	4	0.95	1065.50
	uncultured bacterium; CRC11; AF392638174	4	0.98	892.00
	uncultured bacterium; HDBW-WB05; AB237668174	4	1.00	1140.25
	<i>Achromobacter xylosoxidans</i> ; wp22; AJ560626174	3	1.00	1117.00
	<i>Microbacterium</i> sp. BBCT30; DQ337545174	3	0.99	984.33
	<i>Microbacterium</i> sp. ZD-M2; DQ417926174	3	0.99	1288.33
	<i>Flavobacterium</i> sp. C204B; AF375835174	2	0.97	1285.50
	<i>Pedobacter panaciterrae</i> ; Gsoil 042; AB245368174	2	0.98	1107.50
	<i>Pseudomonas</i> sp. TB2-10-II; AY599715174	2	0.99	1175.50
	<i>Rhizobiaceae</i> bacterium Cpub 4; AY178080174	2	0.98	1192.50

*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.