

Supplementary Table 4 *P. luminescens* loci potentially involved in antibiotic biosynthesis

Gene name	Size (a.a)	Similarity	Organism
<i>cpmA-cpmE</i>		Carbapenem antibiotic biosynthesis	<i>Pectobacterium carotovorum</i>
<i>plu0250</i>	247	Toxoflavin biosynthesis TRP-1 (ToxA)	<i>Burkholderia glumae</i>
<i>plu0756</i>	521	Enterobactin synthetase	<i>V. cholerae</i>
<i>plu0757</i>	315	3-oxoacyl-ACP synthase	<i>R. capsulatus</i>
<i>plu0897</i>	1168	Peptide synthetase NosD	<i>Nostoc sp. GSV224</i>
<i>plu0898</i>	1577	Peptide synthetase	<i>Anabaena sp. 90</i>
<i>plu0899</i>	2009	Peptide synthetase	<i>Anabaena sp. 90</i>
<i>plu1113</i>	4983	Pseudogene (Syringomycin synthetase)	<i>P. syringae</i>
<i>plu1115</i>	1791	Pseudogene (Syringomycin synthetase)	<i>Bradyrhizobium japonicum</i>
<i>plu1117</i>	89	Pseudogene (Syringomycin synthetase)	<i>Bradyrhizobium japonicum</i>
<i>plu1210</i>	323	Syringomycin synthetase	<i>P. syringae</i>
<i>plu1211</i>	594	Lichenysin synthetase	<i>B. licheniformis</i>
<i>plu1212</i>	5192	Polyketide synthetase MxaC	<i>Stigmatella aurantiaca</i>
<i>plu1213</i>	1669	Peptide synthetase	<i>P. aeruginosa</i>
<i>plu1216</i>	60	MbtH-like protein	<i>Agrobacterium tumefaciens</i>
<i>plu1217</i>	254	Thioesterase II	<i>S. venezuelae</i>
<i>plu1218</i>	507	Putative ligase/carboxylase	<i>Mesorhizobium loti</i>
<i>plu1219</i>	411		<i>Streptomyces sp.</i>
<i>plu1220</i>	1060	Peptide synthetase	<i>S. avermitilis</i>
<i>plu1873</i>	387	Nikkomycin biosynthesis, NikS	<i>S. pneumoniae</i>
<i>plu1874</i>	379	Nikkomycin biosynthesis, carboxylase	<i>S. pneumoniae</i>
<i>plu1878</i>	1065	Actinomycin synthetase II	<i>S. chrysomallus</i>
<i>plu1880</i>	4160	Syringomycin synthetase	<i>P. syringae</i>
<i>plu1885</i>	616	Polyketide synthetase PksK	<i>B. subtilis</i>
<i>plu2186</i>	1284	Indigoidine synthase	<i>Pectobacterium chrysanthemi</i>
<i>plu2187</i>	318	Indigoidine synthase	<i>Pectobacterium chrysanthemi</i>
<i>plu2217</i>	418	3-oxoacyl-ACP synthase	<i>C. acetobutylicum</i>
<i>plu2408</i>	461	Enterobactin synthetase	<i>V. cholerae</i>

<i>plu2474</i>	198	GTP cyclohydrolase II (ToxB)	<i>Burkholderia glumae</i>
<i>plu2475</i>	561	WD-repeat protein (ToxC)	<i>Burkholderia glumae</i>
<i>plu2476</i>	342	Toxoflavin biosynthesis TRP-2 (ToxD)	<i>Burkholderia glumae</i>
<i>plu2642</i>	916	Indigoidine synthase	<i>Pectobacterium chrysanthemi</i>
<i>plu2644</i>	599	Peptide synthetase	<i>Anabaena sp. 90</i>
<i>plu2670</i>	16367	Syringomycin synthetase	<i>P. syringae</i>
<i>plu2733</i>	1463	Peptide synthetase	<i>Anabaena sp. 90</i>
<i>plu2796</i>	935	Peptide synthetase	<i>Anabaena sp. 90</i>
<i>plu3123</i>	5457	Syringomycin synthetase	<i>P. syringae</i>
<i>plu3130</i>	3311	Syringomycin synthetase	<i>P. syringae</i>
<i>plu3263</i>	5216	Syringomycin synthetase	<i>P. syringae</i>
<i>plu3531</i>	612	Bacitracin synthetase 3	<i>B. licheniformis</i>
<i>plu3532</i>	3271	Peptide synthetase XpsB	<i>X. bovienii</i>
<i>plu3533</i>	1133	Peptide synthetase NosC	<i>Nostoc sp. GSV224</i>
<i>plu3534</i>	3270	Peptide synthetase XpsB	<i>X. bovienii</i>
<i>plu3535</i>	3328	Syringomycin synthetase	<i>P. syringae</i>
<i>plu3919</i>	580	Polyketide synthase and peptide synthetase	<i>Microcystis aeruginosa</i>
<i>plu3920</i>	44	Pseudogene (polyketide synthase)	<i>Nostoc sp.</i>
<i>plu3921</i>	617	Peptide synthetase	<i>Anabaena sp. 90</i>
<i>plu3923</i>	195	Peptide synthetase (truncated?)	<i>Nostoc sp. PCC7120</i>
<i>plu4186</i>	384	Endopeptidase	<i>Arthrobacter nicotinovorans</i>
<i>plu4187</i>	480	Cyclase/dehydrase/aromatase	<i>Streptomyces antibioticus</i>
<i>plu4188</i>	515	Long-chain acyl-CoA synthetase	<i>Caulobacter crescentus</i>
<i>plu4189</i>	82	Unknown	
<i>plu4190</i>	371	3-oxoacyl-ACP synthase	<i>Xylella fastidiosa</i>
<i>plu4191</i>	429	Polyketide beta-ketoacyl synthase	<i>S. cyaneus</i>
<i>plu4192</i>	271	Polyketide cyclase	<i>Streptomyces nogalater</i>
<i>plu4193</i>	237	Phosphopantetheinyl transferase	<i>Proteus mirabilis</i>
<i>plu4194</i>	258	Polyketide ketoreductase	<i>Saccharopolyspora hirsuta</i>
<i>plu4676</i>	421	3-oxoacyl-ACP synthase	<i>A. aeolicus</i>