

**Table S1.** Genes involved in plant colonization and plant growth promotion found in the genomes of *Phyllobacterium endophyticum* PEPV15 and *Rhizobium laguerreae* PEPV16

Gene name	Encoded functions (or proteins)	Accession in the genome of strain PEPV15 (GenBank)	Accession in the genome of strain PEPV16 (GenBank)
<b>PGAP(RAST)</b>			
<b>Genes involved in plant colonization</b>			
<i>Bcs</i>	cellulose biosynthesis	VSZT01000008.1	VSZV01000278.1
<i>ExoD</i>	exopolysaccharide biosynthesis		VSZV01000310.1
<i>ExoM, ExoO</i>	succinoglycan biosynthesis	JACHXT010000002.1	
<i>ExoQ</i>	O-antigen ligase family protein	VSZT01000008.1	
<i>ExoR</i>	exopolysaccharide biosynthesis negative regulator	PGGN01000002.1	
Unnamed ( <i>PssV</i> )	exopolysaccharide biosynthesis		VSZV01000314.1, VSZV01000355.1
Unnamed	exopolysaccharide biosynthesis	VSZT01000014.1	
<i>ExoF</i>	exopolysaccharide biosynthesis	VSZT01000008.1	VSZV01000337.1
<i>Flg, Flh, Fli, Mot</i>	flagella biosynthesis	VSZT01000008.1	VSZV01000353.1, VSZV01000218.1
<i>FlaA</i>	flagellins	VSZT01000008.1	VSZV01000353.1, VSZV01000356.1, VSZV01000326.1
<i>MotC</i>	chemotaxis	VSZT01000008.1	VSZV01000353.1
<i>CheA</i>	chemotaxis		VSZV01000353.1
<i>CheD</i>	chemotaxis		VSZV01000353.1
<i>CheR</i>	chemotaxis	VSZT01000001.1	VSZV01000310.1
<i>CheW</i>	chemotaxis		VSZV01000353.1
Unnamed/ <i>LuxI</i>	N-acyl-L-homoserine lactone (AHL) synthase		VSZV01000338.1
Unnamed	GNAT family N-acetyltransferase	VSZT01000001.1	
<b>Genes involved in plant growth promotion</b>			
<i>PqqB</i>	pyrroloquinoline quinone biosynthesis	VSZT01000002.1	
<i>PqqC</i>	pyrroloquinoline-quinone synthase	VSZT01000002.1	
<i>PqqD</i>	pyrroloquinoline quinone biosynthesis peptide chaperone	VSZT01000002.1	
<i>PqqE</i>	pyrroloquinoline quinone biosynthesis	VSZT01000002.1	
<i>NthA</i>	nitrile hydratase subunit alpha	VSZT01000001.1	VSZV01000298.1
<i>NthB</i>	nitrile hydratase subunit beta	VSZT01000001.1	VSZV01000298.1
Unnamed/ <i>LucB</i>	siderophore biosynthesis	PGGN01000001.1	VSZV01000309.1
<i>FixI</i>	nitrogen fixation protein FixI	PGGN01000003.1	
<i>FixJ</i>	DNA-binding response regulator	PGGN01000003.1	
<i>Nif*</i>	Nitrogenases and cofactor biosynthesis proteins		VSZV01000266.1

\* These genes only are involved in symbiotic nitrogen fixation and then in the legume plant growth promotion.