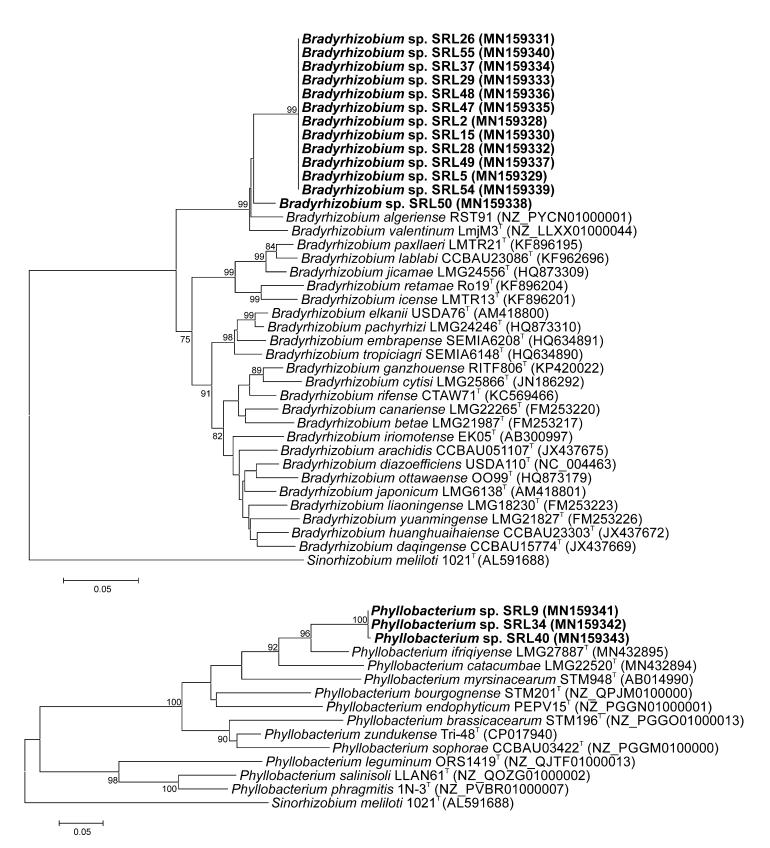
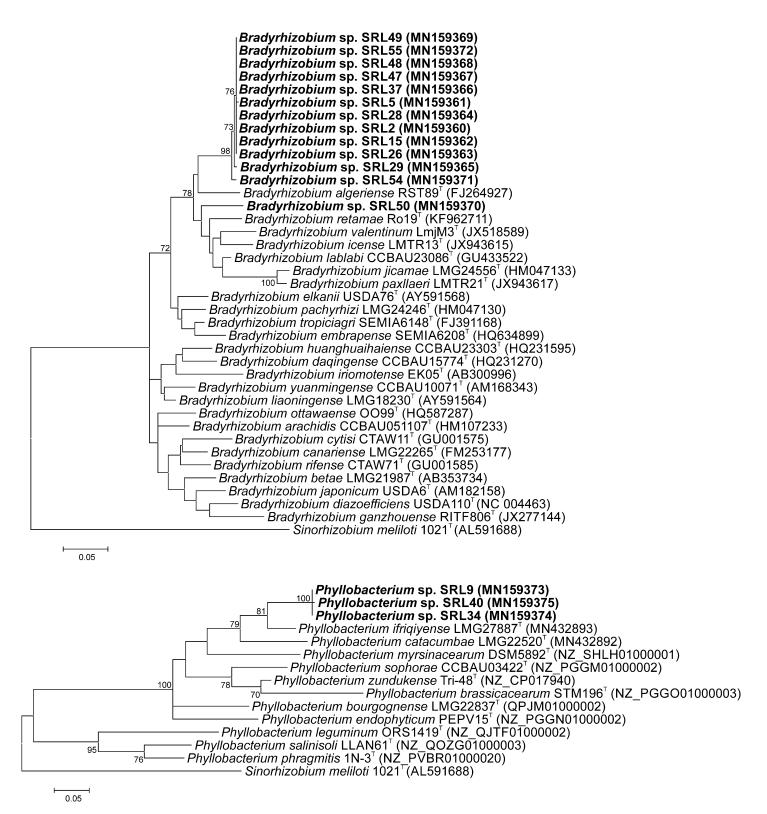


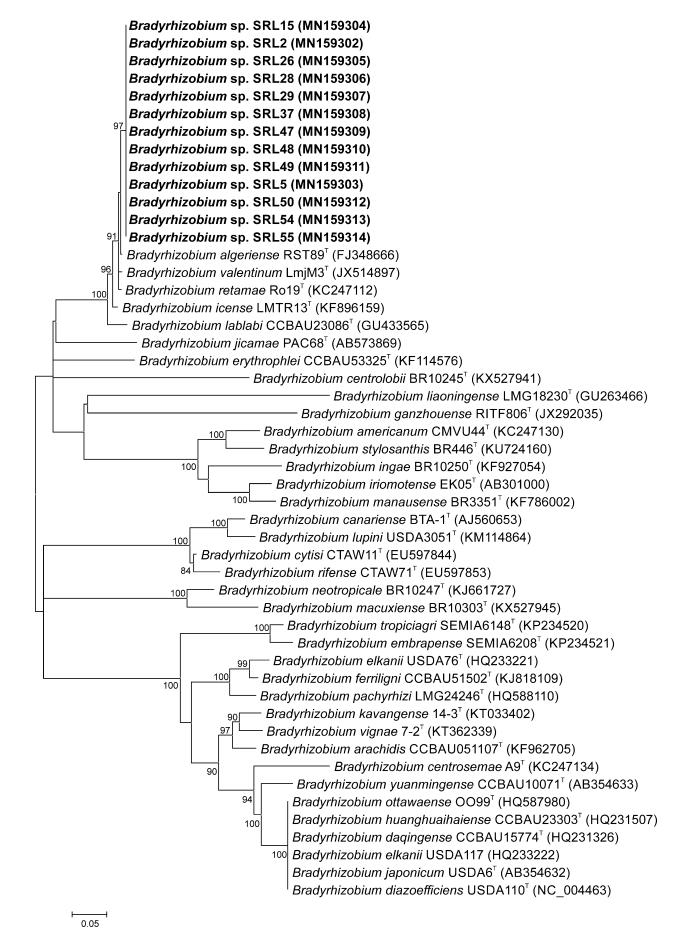
Supplementary Figure S1. The phylogenetic trees of *atpD* gene sequences of the *Chamaecytisus ruthenicus* root nodule isolates (shown in bold) and reference *Bradyrhizobium* (top) and *Phyllobacterium* (bottom). The phylogenies were inferred by using the Maximum Likelihood method based on GTR+I+ Γ (top) and TrN+I+ Γ (bottom) evolutionary models. Bootstrap values \geq 70% are given at the branching points. The scale bar indicates the number of substitutions per site. GenBank accession numbers are given in parentheses.



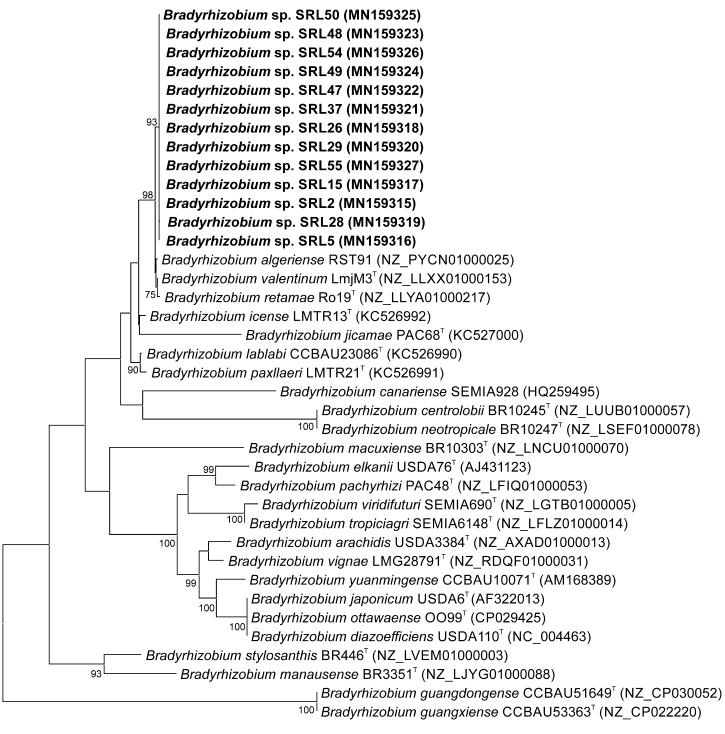
Supplementary Figure S2. The phylogenetic trees of *gyrB* gene sequences of the *Chamaecytisus ruthenicus* root nodule isolates (shown in bold) and reference *Bradyrhizobium* (top) and *Phyllobacterium* (bottom). The phylogenies were inferred by using the Maximum Likelihood method based on GTR+I+ Γ evolutionary model. Bootstrap values \geq 70% are given at the branching points. The scale bar indicates the number of substitutions per site. GenBank accession numbers are given in parentheses.



Supplementary Figure S3. The phylogenetic trees of *recA* gene sequences of the *Chamaecytisus ruthenicus* root nodule isolates (shown in bold) and reference *Bradyrhizobium* (top) and *Phyllobacterium* (bottom). The phylogenies were inferred by using the Maximum Likelihood method based on GTR+I+ Γ evolutionary model. Bootstrap values \geq 70% are given at the branching points. The scale bar indicates the number of substitutions per site. GenBank accession numbers are given in parentheses.

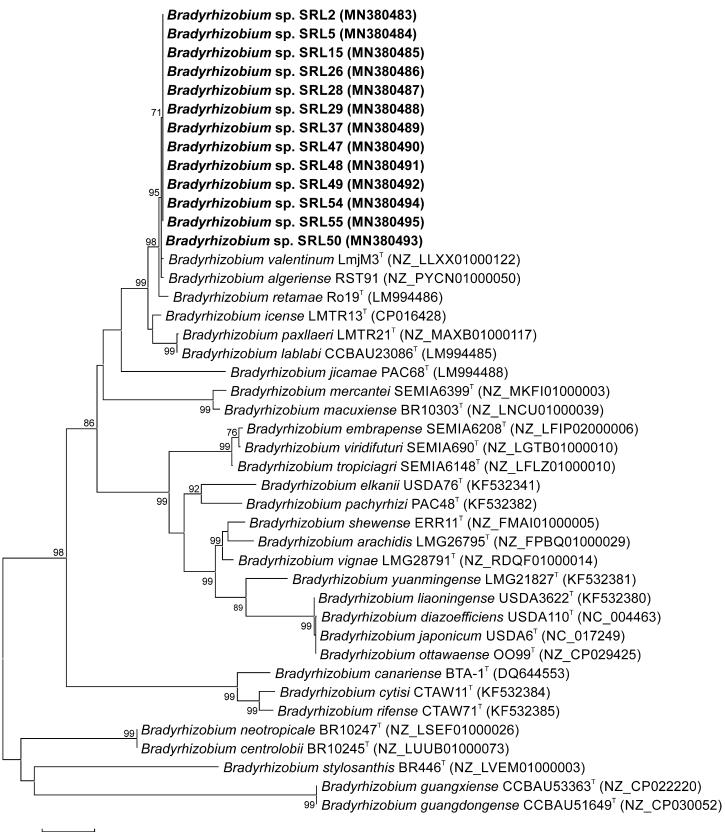


Supplementary Figure S4. The phylogenetic tree of *nodC* gene sequences of the *Chamaecytisus ruthenicus* root nodule isolates (shown in bold) and reference *Bradyrhizobium*. The phylogeny was inferred by using the Maximum Likelihood method based on TrN+I+ Γ evolutionary model. Bootstrap values \geq 70% are given at the branching points. The scale bar indicates the number of substitutions per site. GenBank accession numbers are given in parentheses.



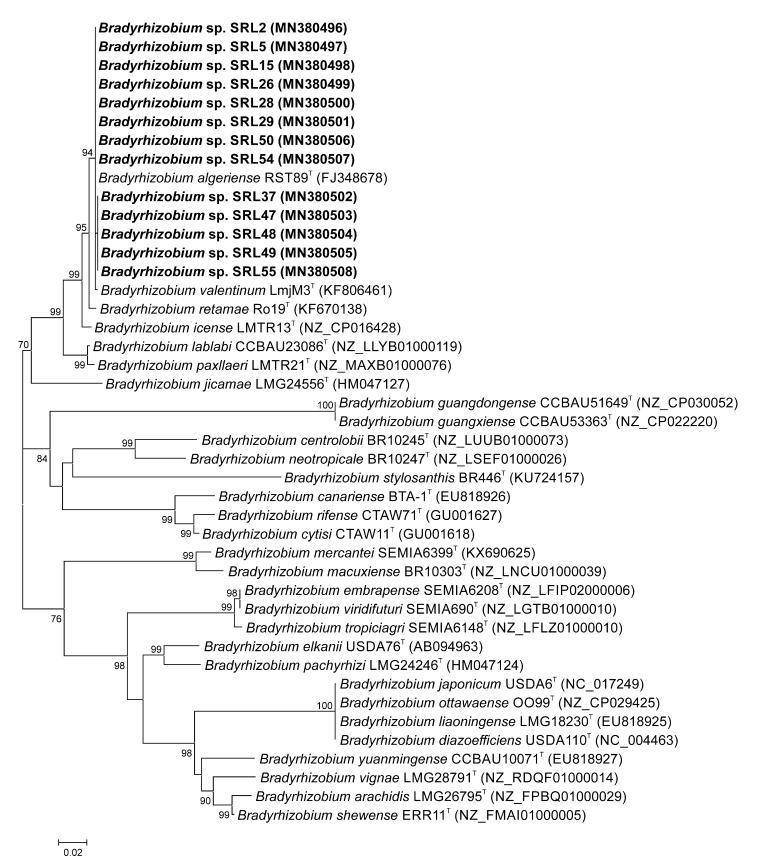
0.1

Supplementary Figure S5. The phylogenetic tree of *nodZ* gene sequences of the *Chamaecytisus ruthenicus* root nodule isolates (shown in bold) and reference *Bradyrhizobium*. The phylogeny was inferred by using the Maximum Likelihood method based on TrN+I+ Γ evolutionary model. Bootstrap values \geq 70% are given at the branching points. The scale bar indicates the number of substitutions per site. GenBank accession numbers are given in parentheses.



0.05

Supplementary Figure S6. The phylogenetic tree of *nifD* gene sequences of the *Chamaecytisus ruthenicus* root nodule isolates (shown in bold) and reference *Bradyrhizobium*. The phylogeny was inferred by using the Maximum Likelihood method based on GTR+I+ Γ evolutionary model. Bootstrap values \geq 70% are given at the branching points. The scale bar indicates the number of substitutions per site. GenBank accession numbers are given in parentheses.



Supplementary Figure S7. The phylogenetic tree of *nifH* gene sequences of the *Chamaecytisus ruthenicus* root nodule isolates (shown in bold) and reference *Bradyrhizobium*. The phylogeny was inferred by using the Maximum Likelihood method based on GTR+I+ Γ evolutionary model. Bootstrap values \geq 70% are given at the branching points. The scale bar indicates the number of substitutions per site. GenBank accession numbers are given in parentheses.