**Data S1.**

Nucleotide sequences of *nopL*, *nopPs*, *rhcJ*, and *ttsI* in *Bradyrhizobium elkanii* USDA61 genome. The genes (bold) and their promotor sequences are shown. The *nopL* and *nopP2*, but not *nopP1*, is preceded by a conserved *tts* box (bordered).

***nopL* (750 bp)**

CCTGGCATATCAGATCCTGATCGACACCAGGATGAGCCTCGACCGCCTGCTGGAGAGATACTGCAGGGGACGCGCCGCGTCAGGACAGCATCGTGCGCAAGTCTGCGCCAAGCAGAGATGAATTGAAAATGCGAAGCAGCTTGTGGCGAAGGTCAATGCCTTCTCCATTGGCTCATTGCGAATCCTCTTGACGC**TCGTCAGCTTCTCGAAAGCTAACTCTCTTA**GCATGAGAGAGCGGATGTCTAGAGGGCGATGCCGCCTATCCATCTTAATGGAGATGCACATCGAACACCCGATGCTCTGCCGGCGGCTCGGAGGGTGCACTCCACACGAGCCTTCGAAACAGTTCTCTGGAGGTCGCAATGCAA**ATGGCCTTCGTCGAACTATGGCTCGAGCCAAACTTTCAAAGGAGGAGCAGGATGGATTTCAACTCAATCAGCCCAACGAACACAAGCCCGCAGCCCGATTCACCATCAGCGCCCGCGGGTCCAGCGGGCTTTGAGCACCAGCTGCGCGAGGTCGAAGATAGTGCTCTGCCACCTGCTGCGGGATCTCCCGTGCAGCAGGGCAAAGCCTACTCGCCATATCTGGACGCCCGGCATCCCTATTCGCAATATTTGGAGTCGGGGCATCCCTATTCATCACTGTTGGATCGGGAGGATGATCTATATGCGCCGGCTGCGCCCTCCCCCGGGCCATTGGTGGCCGCCAGAGAAAGCTCTCCACAGCCAGGCTCGCAGCAGCCGATCGCTCAAGCCATCGCGGAACTCCCAGAGTTTGATCCTGATCTAATTTGGCAGAATGTGGAAGCCGGGTCATCGCAGGCTGGACCGTCTCAGGCCGGACCTTCGCAAGCCGGGCCATCCTCGTCCGCCGGGGCTGCGCTGTCGGAGCTCACAAATTTCATTCCCGAGGACGAGCGTTTCATAGCCGACCACTGGGTCTTCTGTCCCCATACGGCCTCGGATGCCCAGATCAACATACTAAGGAGGGCCGGCCTCTTGCCTAGCAATAACTCCCGGACCACAAGTTTCACCATGCTGGGTATGCCCCACACAGCCGAATTTCGACAAGAGGGGTTCGTTCGTATCAAACCGTCGATGGACGCGGGCCTCTGA**

***nopP1* (822 bp)**

GCGTTGGTATCCGACAGAACCCGCTTCTTATGACGGCCGATCTAACCGGGGCCAGGCCCCCGATATCCCGTCTCAGATTCTTCCAATTCGTCACGCAGGGACGGGCTGATCTGTAGCGCCTCCGCAATCGAACGAACCGTCTCGCCCGCGTCAGCCCGCGCCATGGCTCATTCGCGGATGTCTTCCGAATGGGGGCGCGTCATCCATGCTGGCCTCCGCCTCCAGCATGGAGGTCGAATCAGAAATCCCACCCGAGGGGAATCCCGATTCCAGAAAACAACAAGCTCCTAGTCAGCTTACGGTCAGTTTCGCCTGGCTACTTTGGCGCGGCCCAAAGCGCCTCAAATCAATAAGAAACCCTCTTGCCTTAGGAGTACGGATCCTC**ATGTACGGTCGAATTGGTGGGTATTATGAAGCAGTTACGTGGGCATCCCACGACGAACACGCGGATGACAGAGATTTCGAGGGCAGGTTCGCTAACATGCACCTGTCCGCAGCGGAGCCGACCTCCTCTTCTGCAGCGCCAACGTATTCCCTCGTGACCAAGCCTCCGATAGAGCCGATCGACAAGGATACGTTTCGCAGAGAAGCAAAGATCTTCCAAAATGATCATGAAATAATGCGCATCGCCGAGAATCCGCGGGAGTACTCGCGTTTCGTATCGACACGAGCCAAGAACGTCAGAGAGGCTGCGGAGGACTACGGCTCGACCAGAGATTCGGAGGAAGCGCGATACTACAGCTATAATCTTGGAAACAAAACTGTCGCACTGCTGCGGACGGAAGGCGGATACAGCATGAACGAATTCCACGACGACAGGTGGCGAGAACTGTTTCCCGGGCGAGAACACATCACCTCCGTCGTCGATCTTCAGCTTGCCCATCCCTTGGTGGAGAACGCAGGCGATATTCTACTCGAATATCAGCTTCGGCGAGATGCGCGAGAAGGCGAGCAACCGTTGCTTAAATGGTATCCACTTAACGAAGAATCGAAAGCTCGCGCGGCGAAGTTAGGTTTCGTAGAGGTCGACGATTGCAATATGGTACTTGATCCTACTCAGCATCCTGACAAATGGACAACGAATAGCGCAGGTGAATGGCAGCGCGCCAACAAACCTGAACGATATCTCGCTAAAGTAGACGACGGCGAGCGTCGTAATACCCATGTAGCAAGCTCCGGATACGCGTACGAGGATGACTTTATGTGA**

***nopP2* (852 bp)**

GCCGAAGGCCGGGTCTGTCCCTACGGCAGGCGTGCGGCATGTAGCGGGCGAGAGCCATTGCTGGTCGCGTGCAACACGGGCGTGAAGATCAGGCCGGCCTGCGCTGATAGTCTCGATGGTCTAGACGACCTGCCGCGGCCCGACGATGCCGCTGCACCGAACGGCGGGGACAGCGCAACAGCGCGTCACGAAATGGTCGATATCGGCAGCACACGACTAAAACGCACAGAACTGGAAAACGAGAGCGTAAGGGCGGGCCGGTCCTCGATAGACGTGTGCATTTGTTCAAGTATCTGATCAAACCCCCAGCCTGCAAGTGCTCTAATGAAAGGCGATCGCGCGTGTGGCGATGAGTGGCCAGTCCTTGAGGGATGGACCATCGTCATATGACGTAATGTGCACTCACCGAATGCAATTCGATGAGTTGCGCGTGCGGCGAATGCGCGCGGAGCGCCTGGTCGTAGCGTGCGAGGCGGACAGAGGCTTTGCGCTATCT**GGGTCAGCTTGCGGTAAGCTAGGCTGTGTA**TTCTAGTCGGCAGAGCTTGCGCGGCACGAGCTCAACAGCGTGGAAATTTGCCGATAGGAGAGCGATCTG**ATGTATGGCAGAATCGTTGGCTCATCGAGCCCGTCCACAGGCGCCAGCCAAGCTGATGAAGCGGGAGAGGCGGGGGACAGCTCGCATTTTACGGAAATGGTTGCAGGCGTCGGTTCAAGTGGGGCGTCGCCGGCGCGATACTCTCTGGAATCCAATCCGCCCATTTCCGAGATCGATCGCTCTTCCTTCAATGACGGACTGTGGAGATTTCTGGGTTCTGATATCCAGAGCATCGCAAGTAGCCGGGAAGAGTACTCGGATTTCGTATCCAAGAAAGCTGAGCGCGCAGCAACGGTCGCTGGAAGCTATCTCCACACCTACGATGATCTGTCCAGGCCAGCGAAATTTTTCAGCTATAAATTGGGTGACGAAACGGTCGGCCTCTTAAGAGTGGGAGGTCCGGTTCGGATCAAAGGAGACGCCTTCCGGAACCAGTTTGGCCGCAACGATCTGACGTCTGTGGTAGACCTTCGGGTGACACATCCCCTGGTCGAGAATGCGGGCGATATTCTGCTGGAACATCAACTGAGAATTGATGCGCGCAACGGCGCTGAGCCGCTGATCTTGTCAAAACCAGCCTTAGGCGGGATGGAACCCCGCCTGGCGGAAATGGGTTTTGTTCACGTGGGGCGAAACCACTGGGTGCTTGATCCTCACCAGCATCCGGAAGTGTGGACCAAGAATGAGAACGATGAGTGGCAGCGAGTAGGCAAGCCTACAAAGTACCTCGCCAAGGCAGGGGATGGTGATAGCGCGACCCAAGCGCCTCGCCAGTTTGACTCTTCTGACGAAGATGATTCGACAGAATACTACTACTTGGAGCGCGCCCTTGCGGGGCTGCACACAGAGTAG**

***rhcJ* (876 bp)**

**ATG**AAGCTGATGCGTGGTGTGATGTGCAGTGCGGGCAACGGCAGCCGTCAATCGTGGCGACGGCTTCGCGTTTGCCTTGCTCTGCCCCTTCTTGTTCCGTTGCTCGGCTGCAAAGCTGATCTCTACAGTAAGATTCAGGAGCGTGAAGCCAATGAGATGCTTGCGCTTCTCCTTGGCAAGGGTGTCGATGCAGCTCGTGTTGTCGCCAAAGATGGGACCAGCACGATCCAGGTCGAGGAAAGGCAGCTCGCCTATTCGATTGACTTGCTGAATGTTGAGGGGCTGCCGCGCCAATCTTTCAAGAATCTTGGCGAGGTATTCAAGGGATCGGGCCTCGTTGCGTCGCCGATCGAGGAGCGGGCCCGTTACGTTTATGCCCTCAGCGAGGAATTGTCGCGCACCATTAGCGATATCGATGGCGTCCTTTCCGCCCGGGTCCATGTGGTCCTTCCTAAAAACGATCTGTTGCGGCAAGATGCGACCCCGTCCTCAGCGTCGGTTTTCATCCGACATGGCTCCAACGCAAAGCTCTCGGCGCTGTTGCCTCAGATCAAGATGCTCGTAGCCAACAGCATCGAAGGGCTGTCCTACGACAAGGTGGCTGTGGTCTTCGTGCCGGTTGAGCGAACTCCGCTTGAGCAGCCAGCGTCGCCGACAGCCGCTTCAGCTCAAAGCGCAAAATCTGCTTCAACGCCGTGGCTTGCGCTTGGGGTTGGAGGCGCCGGCGCCATATTCGTCATTGCATCTTATGTGTTGCTCGGTGCGCGTCTTCGTCAGTTCGGGCAATCATCGCGCAACCTGATCATGTTCAACAGGCGTTCGAATGTGCCCGCCGTTCAGGCTGCTGGTAAAAAGATCATGTCTGATTCGACA**TAG**

***ttsI* (690 bp)**

**ATG**CGAATTCTCCTGGTTGATCATCATGCGGACTTTGCCCGTGCTGTGAAGGAAGCGCTCCCCTATTGCGGGTTCGCAGTTGACGTGACACGCACGCTGGATGAGGCGGCGGCCGCGCTGGATTGCGCCAACTATCACATTCTTTTGCTCGAATTGGTTCTGCCCGATGGAGACGGCTTGGATTGGCTGAAGCAGCTGCGGCGCGAGGGACGCTCGATGCCGGCCATTATGATGAGCAGTCTCAACGATCTCGGCCGGCGGATTGCGATCTTCAATGCGGGCGCGGACGATTTCCTCCCCAAACCCGTATCGACCGAGGAACTCATCGCACGCATGCGGGCCATTCTGCGGCGGTCGACGCAAATGACGGCGCCGCTCGTGACATTCGGCAATCTGCACTTCGACCCCATTGCGAGGCAAGTCGCGGTCGGTGGTCGGATACTGAAGATTGCCCGCCGCGAAGTGTGCATTCTTGAACATTTGCTCAACCGTGCCGGCCGCACCGTGCCGCGCGCATCACTGGAGGACAGCCTGTACGCGTTCGACGATGAGGTCTCGACCAATGCGCTGGAAGTCGGGATCTATCGCCTGCGCACGCATTTGAGCCAGTCGGGTGCGACGCTCAGGATCAAGACCGCGCGCGGCGTCGGTTACACCCTTGAACTCATTGAGGCAGCCTCGGCTGCC**TGA**