**Supplementary File 1.** Primers used in this study.

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| Primer name | Primer sequence 5'-3' | Use |
| oCBM1821 | CGGGATCCGATCACACCCAACGATGAGA | Amplification of the *nifH* upstream region |
| oCBM2362 | GCTCTAGAGTTGCCAAGCGACGTATTT | Amplification of the *nifH* upstream region |
| oCBM1822 | CGGGATCCGTGCAGATCGACGAGTCAAA | Amplification of the *nifH* downstream region |
| oCBM2363 | CCGGAATTCGAGTACTGGCCACAGCCAAC | Amplification of the *nifH* downstream region |
| oCBM1824 | ACGAAATTGTCCGATGGCTA | Verification of the *nifH* deletion |
| oCBM1825 | TAGTAATTGCGACGCGATCC | Verification of the *nifH* deletion |
| oCBM2619 | TCTAGAGTGGTGGTGATCTCGCAATC | Amplification of the *glmS*-Ralta\_A206 upstream region |
| oCBM2620 | GGTACCCCTAGGGTGAGGCAAGGCGTTCAG | Amplification of the *glmS*-Ralta\_A0206 upstream region |
| oCBM2621 | GGTACCACTAGTCTGAACGCCTTGCCTCAC | Amplification of the *glmS*-Ralta\_A0206 downstream region |
| oCBM2622 | GAATTCCAGCTGCATCACTTCGTCAC | Amplification of the *glmS*-Ralta\_A0206 downstream region |