Table S1 Symbiotic performance of *ptsN* mutants on soybean plants.

| Treatment  | Chlorophyll content (SPAD value) | Shoot dry weight (g/plant) | Nodule number (per plant) | Nodule wet weight (g/plant) |
|------------|----------------------------------|-----------------------------|---------------------------|-----------------------------|
| WT         | 35.6 ± 1.6 (bc)                  | 0.55± 0.03 (bcd)            | 39.1 ± 1.9 (b)            | 0.25 ± 0.01 (abc)           |
| *ptsN1*   | 35.3 ± 1.2 (b)                  | 0.50± 0.03 (b)             | 26.1 ± 1.6 (a)            | 0.23 ± 0.01 (ab)           |
| *ptsN2*   | 33.9 ± 1.2 (bc)                  | 0.44± 0.03 (bc)            | 27.3 ± 1.3 (a)            | 0.22 ± 0.01 (a)            |
| *ptsN3*   | 37.5 ± 1.0 (bc)                  | 0.48± 0.03 (bc)            | 35.8 ± 1.7 (b)            | 0.25 ± 0.01 (abc)          |
| *ptsN12*  | 34.2 ± 1.4 (bc)                  | 0.49± 0.03 (b)             | 29.7 ± 1.7 (a)            | 0.23 ± 0.01 (ab)           |
| *ptsN13*  | 34 ± 1.2 (bc)                    | 0.47 ± 0.02 (bc)           | 25.1 ± 1.2 (a)            | 0.23 ± 0.01 (a)            |
| *ptsN23*  | 34.2 ± 0.9 (c)                   | 0.49 ± 0.02 (cd)           | 37.4 ± 1.3 (b)            | 0.28 ± 0.01 (c)            |
| *ptsN123* | 37.8 ± 0.7 (bc)                  | 0.57 ± 0.03 (cd)           | 27.7 ± 1.9 (a)            | 0.27 ± 0.02 (bc)           |
| Control   | 26 ± 1.2 (a)                     | 0.33 ± 0.01 (a)            |                           |                             |

Different letters in brackets indicate significant difference between treatments (Average ± SE; ANOVA followed by Duncan's test, alpha = 0.05). More than 30 plants were scored.