

Table S1

<i>Bradyrhizobium</i> strains	Plant dry weight (g)	ARA (plant symbiosis) (nmol/plant/h)	ARA (free living) (nmol/g. protein/h)
<i>Divergent nod</i> -containing strains			
SUTN1-2	0.359 ± 0.11 ^{JK}	6.494 ± 2.21 ^H	2.218 ± 0.82 ^{FGHIJKL}
SUTN1-3	0.082 ± 0.034 ^K	50.325 ± 9.79 ^{EF}	4.089 ± 1.82 ^{EFGH}
SUTN1-4	2.500 ± 1.278 ^A	199.950 ± 22.23 ^A	1.630 ± 0.62 ^{HIJKL}
SUTN1-6	1.174 ± 0.071 ^{CDEFGHI}	192.883 ± 25.23 ^A	1.087 ± 0.27 ^{IJKL}
SUTN1-8	1.175 ± 0.305 ^{CDEFGHI}	98.115 ± 10.29 ^C	0.867 ± 0.23 ^{KL}
SUTN1-12	0.559 ± 0.320 ^{GHIJK}	89.818 ± 27.09 ^{CD}	0.131 ± 0.03 ^L
SUTN1-13	0.624 ± 0.117 ^{GHIJK}	7.196 ± 1.02 ^H	2.820 ± 0.42 ^{FGHIJKL}
SUTN2-1	0.637 ± 0.256 ^{GHIJK}	10.239 ± 1.28 ^{GH}	4.836 ± 0.50 ^{DEF}
SUTN2-2	0.409 ± 0.197 ^{IJK}	13.718 ± 3.14 ^{FGH}	0.567 ± 0.34 ^{KL}
SUTN2-3	0.691 ± 0.294 ^{FGHIJK}	4.027 ± 0.16 ^H	3.794 ± 0.45 ^{EFGHIJ}
SUTN2-4	1.427 ± 0.321 ^{CDEF}	95.773 ± 29.58 ^C	6.832 ± 1.95 ^{CD}
SUTN4-3	0.489 ± 0.196 ^{HIJK}	8.544 ± 0.683 ^H	0.054 ± 0.03 ^L
SUTN5-6	0.617 ± 0.005 ^{GHIJK}	198.075 ± 14.86 ^A	3.849 ± 0.39 ^{EFGHI}
DOA1	0.625 ± 0.156 ^{GHIJK}	9.796 ± 3.52 ^{GH}	0.104 ± 0.04 ^L
DOA2	1.266 ± 0.494 ^{CDEFGH}	126.786 ± 37.08 ^{BC}	3.469 ± 1.37 ^{EFGHIJK}
DOA3	1.809 ± 0.873 ^{BC}	198.245 ± 2.17 ^A	9.203 ± 3.11 ^C
DOA4	1.193 ± 0.044 ^{CDEFGHI}	201.450 ± 27.85 ^A	14.701 ± 4.15 ^A
DOA6	1.597 ± 0.582 ^C	48.980 ± 5.52 ^{EFG}	6.002 ± 1.41 ^{DE}
DOA7	1.474 ± 0.417 ^{CDE}	96.697 ± 12.55 ^C	5.893 ± 1.29 ^{DE}
DOA8	1.535 ± 0.576 ^{CD}	8.297 ± 1.80 ^H	0.108 ± 0.054 ^L
DOA9	1.666 ± 0.702 ^C	97.960 ± 12.30 ^C	12.114 ± 4.24 ^B
DOA10	1.763 ± 0.363 ^{BC}	200.085 ± 35.41 ^A	1.561 ± 0.81 ^{HIJKL}
<i>nod</i> -containing strains			
SUTN1-7	1.508 ± 0.497 ^{CD}	8.862 ± 2.65 ^H	0.840 ± 0.294 ^{KL}
SUTN1-9	0.248 ± 0.168 ^{JK}	100.952 ± 35.43 ^C	2.557 ± 1.02 ^{FGHIJKL}
SUTN3-1	0.165 ± 0.118 ^K	40.454 ± 8.19 ^{EFGH}	0.873 ± 0.30 ^{KL}
SUTN4-1	1.337 ± 0.180 ^{CDEFG}	196.968 ± 58.64 ^A	0.153 ± 0.09 ^L
SUTN5-1	0.723 ± 0.294 ^{EFGHIJK}	14.380 ± 4.80 ^{FGH}	0.235 ± 0.18 ^L
SUTN5-3	0.607 ± 0.014 ^{GHIJK}	13.430 ± 5.82 ^{FGH}	4.478 ± 1.85 ^{DEFG}
SUTN5-5	0.027 ± 0.019 ^K	9.123 ± 3.54 ^H	0.929 ± 0.28 ^{JKL}
SUTN6-1	1.070 ± 0.365 ^{CDEFGHIJ}	192.597 ± 19.71 ^A	0.401 ± 0.28 ^L
SUTN6-2	0.584 ± 0.215 ^{GHIJK}	60.093 ± 4.69 ^{DE}	1.193 ± 0.32 ^{HIJKL}
SUTN7-1	0.078 ± 0.031 ^K	10.112 ± 3.021 ^{GH}	0.089 ± 0.02 ^L
SUTN7-2	0.821 ± 0.187 ^{DEFGHIJK}	97.237 ± 16.84 ^C	2.096 ± 0.84 ^{FGHIJKL}
SUTN8-1	2.371 ± 0.677 ^{AB}	212.641 ± 41.04 ^A	0.556 ± 0.05 ^{KL}
SUTN8-2	0.637 ± 0.179 ^{GHIJK}	59.714 ± 8.21 ^{DE}	1.388 ± 0.38 ^{HIJKL}
SUTN9-1	0.183 ± 0.087 ^K	11.507 ± 2.04 ^{FGH}	1.245 ± 0.35 ^{HIJKL}
SUTN9-2	1.092 ± 0.285 ^{CDEFGHIJ}	145.298 ± 22.17 ^B	4.003 ± 1.10 ^{EFGH}
SUTN9-3	0.298 ± 0.184 ^{JK}	137.909 ± 23.61 ^B	1.213 ± 0.09 ^{HIJKL}
SUTN9-4	0.165 ± 0.087 ^K	4.928 ± 1.93 ^H	0.214 ± 0.09 ^L
SUTN9-5	0.385 ± 0.142 ^{JK}	40.125 ± 8.37 ^{EFGH}	1.855 ± 0.50 ^{GHIJKL}
USDA 110	0.202 ± 0.037 ^K	7.899 ± 1.31 ^H	0.072 ± 0.03 ^L
<i>nod</i> -independent strains			
BTAi1	0.572 ± 0.210 ^{GHIJK}	21.448 ± 4.34 ^{FGH}	2.792 ± 0.878 ^{FGHIJKL}
ORS278	0.189 ± 0.025 ^K	16.928 ± 7.93 ^{FGH}	1.430 ± 0.73 ^{HIJKL}