

Appendix Table 1

Medicago truncatula fix minus mutants screening phenotype

line number	6 dpi phenotype	11 dpi phenotype	line number	6 dpi phenotype	11 dpi phenotype
NF0280-1	no phenotype	no phenotype	NF3151-B	not with any nodulation event, also short root?	strange root, just a single one. On one plant, there is one nodule, on the other one, just one infection thread, not sure whether is fungi contamination
NF0391-3	no phenotype	no phenotype	NF3212-A	not with any nodulation event	not with any nodulation event
NF0435-2	no phenotype	no phenotype	NF3704-A	no phenotype	no phenotype
NF0457-3	stain two roots, one with bumps&infection threads, one just infection thread, no bumps	a lot of small bumps, most of them have infection threads. Bumps are not colonised by rhizobia	NF3704-B	no phenotype	no phenotype
NF0500-8	no phenotype	no phenotype	NF3727-2	seems forming nodules later than wt	a number of bump clusters
NF0603-4	nodule usually cluster together	two branched roots with a lot of bumps, root structure normal	NF4315-C8	no phenotype	no phenotype
NF0686-1	nodulate later than wt	no phenotype	NF3048-A	no phenotype	a lot of infection thread, but the nodule is not as colonised by rhizobia as in WT
NF1257-A	nodulate later than wt	no phenotype	NF3119-A	nodules develop later than wt	nodule next to each other, cluster, root structure normal
NF1268-1	there are two primary bumps, no rhizobia colonised nodules	not with any nodulation event	NF3120-C	only four nodules, cluster together, root short	no phenotype
NF1277-C	some nodules flatter than wt	massive nodules cluster together	NF3127-B	no phenotype	no phenotype
NF1278-2A	no phenotype	no phenotype	NF3128-C10	no phenotype	no phenotype
NF1285-A	no phenotype	no phenotype	NF3141-A	no phenotype	no phenotype
NF1286-A	no phenotype	no phenotype	NF3144-A	no phenotype	no phenotype
NF1295-A	no phenotype	no phenotype	NF1858-A	infection threads abort in the epidermis. In an area, a lot of infection threads, about ten, but just nodule primordia	too many nodules one after another, root structure normal
NF1299-1	no phenotype	no phenotype	NF1859-B	no phenotype	no phenotype
NF1320-G	no phenotype	no phenotype	NF1862	no phenotype	no phenotype
NF1341-1	no phenotype	no phenotype		infection threads abort very early, one infection thread aborts in root hair, one reaches cortex, just nodule primordia	no phenotype
NF1441-A	a lot of nodules	no phenotype	NF3010-A	no phenotype	no phenotype
NF1457-2	no phenotype	root too short	NF3019-C	no phenotype	no phenotype
NF1525-A	one bump, around the bump, there are several infection threads. No rhizobia colonised nodules	many flat bumps, it seems the intensity of colonisation is not as strong as WT	NF3040	no phenotype	no phenotype
NF1642-1	no phenotype	no phenotype	NF3046-C2	not with any nodulation event	not with any nodulation event
NF1707-B	no phenotype	no phenotype	NF3050-G	no phenotype	no phenotype
NF2085-1	hyper infected, short root, lack of branching, hypernodulated, nodule primordia next to each other	hyper nodulation, short root	NF3057-C2	no phenotype	no phenotype
NF1325-A	no phenotype	no phenotype	NF3070-A	no phenotype	no phenotype

