

**Supplementary material****Table S1.** List of genotypes used in the nutrient solution experiments

<b>Accession number</b>	<b>Genotype name</b>
1	L2.3.2.1
2	(G85-18-1x228-3 )-1-1-1 S3 (228-3x45611)x228-3)-2-4)x228-3)-1-
3	1
4	521573
5	56800.48
6	951041-03
7	Cateto Colombia 9671
8	521538
9	NB 5318-4.2
10	(5046x228-3)-2-1-1
11	L20
12	17.2
13	5127.33
14	521237
15	10.2
16	G 176-11.2.1
17	51502020
18	56800.27
19	(228-31612841-102-2)-1- 4 S5 202841-1-3-1
20	
21	L57
22	L1154
23	L520
24	L13
25	541350
26	L1017
27	521163
28	521176
29	CML 344
30	530939
31	L3
32	L22

**Table S2.** Magnavaca, Steinberg and Hoagland's macro and micronutrient content

	<b>MAGNAVACA</b>	<b>STEINBERG</b>	<b>HOAGLAND'S</b>
	(mg L <sup>-1</sup> )	(mg L <sup>-1</sup> )	(mg L <sup>-1</sup> )
N-NH <sub>4</sub> <sup>+</sup>	18.20	4.06	0.00
N-NO <sub>3</sub> <sup>-</sup>	152.00	51.98	70.07
P	1.40	3.10	7.74
K	90.10	29.33	107.51
Ca	141.10	50.90	100.23
Mg	20.80	6.56	24.31
S	0.00	0.00	0.00
B	0.270	0.070	0.136
Zn	0.150	0.640	0.223
Fe	4.300	4.000	4.184
Cu	0.040	0.010	0.016
Mn	0.500	0.130	0.138
Mo	0.080	0.005	0.006
Na	0.040	0.000	0.000
Cl	21.050	0.340	0.005

**Table S3.** Gene expression primer sequences.

<b>Gene name</b>	<b>Primer name</b>	<b>Primer sequence</b>
<i>roothairless-1 (rht1)</i>	<i>5rht1_RT</i>	CAACCGGAAAGTTGACGAAT
	<i>3rht1_RT</i>	ACAACCTCGTCGGAGGTCAGT
<i>roothairless-3 (rth3)</i>	<i>5rth3_RT</i>	TGGGTCCGACTACCTTGTTT
	<i>3rth3_RT</i>	AAGCCATCTCCAGCAACAAC
<i>brittle stalk-2-like protein-3 (bk2L3)</i>	<i>5bk2l3_RT</i>	AACCCAAGTGGGTCAAACCTG
	<i>3bk2l3_RT</i>	ATTGTACAAGGGGCTGACCA
<i>brittle stalk-2 (bk2)</i>	<i>5bk2_RT</i>	AAGGACCTTCACCTTCAGCA
	<i>3bk2_RT</i>	GCAGGTAGGGGTAGGAGTC
<i>rootless concerning crown and lateral seminal (rtcs)</i>	<i>5rtcs_RT</i>	CGCCGTCACCATCTCCTAC
	<i>3rtcs_RT</i>	GGGTCATAACCTGCTGCTGT
<i>Scarecrow (scr)</i>	<i>5scr_RT</i>	CTCGCTCTACGACGTCCTG
	<i>3scr_RT</i>	CGCCGAGTAGTAGTGGATGG
rRNA 18S	<i>5rRNA18S_RT</i>	CGTCCTAGTCTCAACCATAAACG
	<i>3rRNA18S_RT</i>	CCCCGGAACCCAAAGACT

