

Table S1. QTL analyses

QTL	Trait ^a	Chromosome	QTL position (cM) ^b	Marker ^c	LOD score	R ² value ^d	a ^e
ZnT1	RelPR ₁₅₀	1	55.6	F5I14	5.99	12	3.66
ZnT2	RelPR ₁₅₀	3	6.0	ATHCHIB2	14.1	29	5.58
ZnT3	RelPR ₁₅₀	5	51.2	MSAT5.9	6.94	16	4.13

- Relative variation of the Primary Root length between 150 μ M Zn and control condition (RelPR₁₅₀)
- The position of the QTL is expressed in cM from the 1st marker of the chromosome
- Name of the closest marker, according to the initial mapping approach
- Percentage of variance explained by the QTL
- Additive effect. Positive value indicates that for the three QTLs, the presence of the Sha allele at QTL decreases root length in the presence of Zn.